

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Medicare & Medicaid Services

42 CFR Part 412

[CMS-1710-P]

RIN 0938-AT67

Medicare Program; Inpatient Rehabilitation Facility (IRF) Prospective Payment System for Federal Fiscal Year 2020 and Updates to the IRF Quality Reporting Program

AGENCY: Centers for Medicare & Medicaid Services (CMS), HHS.

ACTION: Proposed rule.

SUMMARY: This proposed rule would update the prospective payment rates for inpatient rehabilitation facilities (IRFs) for federal fiscal year (FY) 2020. As required by the Social Security Act (the Act), this proposed rule includes the classification and weighting factors for the IRF prospective payment system's (PPS) case-mix groups (CMGs) and a description of the methodologies and data used in computing the prospective payment rates for FY 2020. We are proposing to rebase and revise the IRF market basket to reflect a 2016 base year rather than the current 2012 base year. Additionally, we are proposing to replace the previously finalized unweighted motor score with a weighted motor score to assign patients to CMGs and remove one item from the score beginning with FY 2020 and to revise the CMGs and update the CMG relative weights and average length of stay values beginning with FY 2020, based on analysis of 2 years of data (FY 2017 and FY 2018). We are proposing to update the IRF wage index to use the concurrent FY inpatient prospective payment system (IPPS) wage index beginning with FY 2020. We are soliciting comments on stakeholder concerns regarding the appropriateness of the wage index used to adjust IRF payments. We are proposing to amend the regulations to clarify that the determination as to whether a physician qualifies as a rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation) is made by the IRF. For the IRF Quality Reporting Program (QRP), we are proposing to adopt two new measures, modify an existing measure, and adopt new standardized patient assessment data elements. We also propose to expand data collection to all patients, regardless of payer, as well as proposing updates

related to the system used for the submission of data and related regulation text.

DATES: To be assured consideration, comments must be received at one of the addresses provided below, not later than 5 p.m. on June 17, 2019.

ADDRESSES: In commenting, please refer to file code CMS-1710-P. Because of staff and resource limitations, we cannot accept comments by facsimile (FAX) transmission.

Comments, including mass comment submissions, must be submitted in one of the following three ways (please choose only one of the ways listed):

1. *Electronically.* You may submit electronic comments on this regulation to <http://www.regulations.gov>. Follow the "Submit a comment" instructions.
2. *By regular mail.* You may mail written comments to the following address ONLY: Centers for Medicare & Medicaid Services, Department of Health and Human Services, Attention: CMS-1710-P, P.O. Box 8016, Baltimore, MD 21244-8016.

Please allow sufficient time for mailed comments to be received before the close of the comment period.

3. *By express or overnight mail.* You may send written comments to the following address ONLY: Centers for Medicare & Medicaid Services, Department of Health and Human Services, Attention: CMS-1710-P, Mail Stop C4-26-05, 7500 Security Boulevard, Baltimore, MD 21244-1850.

For information on viewing public comments, see the beginning of the **SUPPLEMENTARY INFORMATION** section.

FOR FURTHER INFORMATION CONTACT:

Gwendolyn Johnson, (410) 786-6954, for general information.

Catie Kraemer, (410) 786-0179, for information about the IRF payment policies and payment rates.

Kadie Derby, (410) 786-0468, for information about the IRF coverage policies.

Kate Brooks, (410) 786-7877, for information about the IRF quality reporting program.

SUPPLEMENTARY INFORMATION: The IRF PPS Addenda along with other supporting documents and tables referenced in this proposed rule are available through the internet on the CMS website at <http://www.cms.hhs.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/>.

Executive Summary

A. Purpose

This proposed rule would update the prospective payment rates for IRFs for

FY 2020 (that is, for discharges occurring on or after October 1, 2019, and on or before September 30, 2020) as required under section 1886(j)(3)(C) of the Act. As required by section 1886(j)(5) of the Act, this proposed rule includes the classification and weighting factors for the IRF PPS's case-mix groups and a description of the methodologies and data used in computing the prospective payment rates for FY 2020. This proposed rule would also rebase and revise the IRF market basket to reflect a 2016 base year, rather than the current 2012 base year. Additionally, this proposed rule proposes to replace the previously finalized unweighted motor score with a weighted motor score to assign patients to CMGs and remove one item from the score beginning in FY 2020 and to revise the CMGs and update the CMG relative weights and average length of stay values beginning with FY 2020, based on analysis of 2 years of data (FY 2017 and FY 2018). We are also proposing to update the IRF wage index to use the concurrent IPPS wage index for the IRF PPS beginning with FY 2020. We are also soliciting comments on stakeholder concerns regarding the appropriateness of the wage index used to adjust IRF payments. We are also proposing to amend the regulations at § 412.622 to clarify that the determination as to whether a physician qualifies as a rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation) is made by the IRF. For the IRF Quality Reporting Program (QRP), we are proposing to adopt two new measures, modify an existing measure, and adopt new standardized patient assessment data elements. We also propose to expand data collection to all patients, regardless of payer, as well as proposing updates related to the system used for the submission of data and related regulation text.

B. Summary of Major Provisions

In this proposed rule, we use the methods described in the FY 2019 IRF PPS final rule (83 FR 38514) to update the prospective payment rates for FY 2020 using updated FY 2018 IRF claims and the most recent available IRF cost report data, which is FY 2017 IRF cost report data. This proposed rule also proposes to rebase and revise the IRF market basket to reflect a 2016 base year rather than the current 2012 base year. Additionally, this proposed rule proposes to replace the previously finalized unweighted motor score with a weighted motor score to assign patients to CMGs and remove one item

from the score beginning with FY 2020 and to revise the CMGs and update the CMG relative weights and average length of stay values beginning with FY 2020, based on analysis of 2 years of data (FY 2017 and FY 2018). We are also proposing to use the concurrent IPPS wage index for the IRF PPS beginning in

FY 2020. We are also soliciting comments on stakeholder concerns regarding the appropriateness of the wage index used to adjust IRF payments. We are also proposing to amend the regulations at § 412.622 to clarify that the determination as to whether a physician qualifies as a

rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation) is made by the IRF. We are also proposing to update requirements for the IRF QRP.

C. Summary of Impacts

Provision Description	Transfers
FY 2020 IRF PPS payment rate update	The overall economic impact of this proposed rule is an estimated \$195 million in increased payments from the Federal government to IRFs during FY 2020.
Provision Description	Costs
Proposed IRF QRP requirements	The total addition in costs in FY 2020 for IRFs as a result of the proposed quality reporting requirements is estimated to be \$8.1 million.

I. Background

A. Historical Overview of the IRF PPS

Section 1886(j) of the Act provides for the implementation of a per-discharge PPS for inpatient rehabilitation hospitals and inpatient rehabilitation units of a hospital (collectively, hereinafter referred to as IRFs). Payments under the IRF PPS encompass inpatient operating and capital costs of furnishing covered rehabilitation services (that is, routine, ancillary, and capital costs), but not direct graduate medical education costs, costs of approved nursing and allied health education activities, bad debts, and other services or items outside the scope of the IRF PPS. Although a complete discussion of the IRF PPS provisions appears in the original FY 2002 IRF PPS final rule (66 FR 41316) and the FY 2006 IRF PPS final rule (70 FR 47880), we are providing a general description of the IRF PPS for FYs 2002 through 2019.

Under the IRF PPS from FY 2002 through FY 2005, the prospective payment rates were computed across 100 distinct CMGs, as described in the FY 2002 IRF PPS final rule (66 FR 41316). We constructed 95 CMGs using rehabilitation impairment categories (RICs), functional status (both motor and cognitive), and age (in some cases, cognitive status and age may not be a factor in defining a CMG). In addition, we constructed five special CMGs to account for very short stays and for patients who expire in the IRF.

For each of the CMGs, we developed relative weighting factors to account for a patient's clinical characteristics and expected resource needs. Thus, the weighting factors accounted for the relative difference in resource use across all CMGs. Within each CMG, we created tiers based on the estimated effects that

certain comorbidities would have on resource use.

We established the federal PPS rates using a standardized payment conversion factor (formerly referred to as the budget-neutral conversion factor). For a detailed discussion of the budget-neutral conversion factor, please refer to our FY 2004 IRF PPS final rule (68 FR 45684 through 45685). In the FY 2006 IRF PPS final rule (70 FR 47880), we discussed in detail the methodology for determining the standard payment conversion factor.

We applied the relative weighting factors to the standard payment conversion factor to compute the unadjusted prospective payment rates under the IRF PPS from FYs 2002 through 2005. Within the structure of the payment system, we then made adjustments to account for interrupted stays, transfers, short stays, and deaths. Finally, we applied the applicable adjustments to account for geographic variations in wages (wage index), the percentage of low-income patients, location in a rural area (if applicable), and outlier payments (if applicable) to the IRFs' unadjusted prospective payment rates.

For cost reporting periods that began on or after January 1, 2002, and before October 1, 2002, we determined the final prospective payment amounts using the transition methodology prescribed in section 1886(j)(1) of the Act. Under this provision, IRFs transitioning into the PPS were paid a blend of the federal IRF PPS rate and the payment that the IRFs would have received had the IRF PPS not been implemented. This provision also allowed IRFs to elect to bypass this blended payment and immediately be paid 100 percent of the federal IRF PPS rate. The transition methodology expired as of cost reporting periods

beginning on or after October 1, 2002 (FY 2003), and payments for all IRFs now consist of 100 percent of the federal IRF PPS rate.

Section 1886(j) of the Act confers broad statutory authority upon the Secretary to propose refinements to the IRF PPS. In the FY 2006 IRF PPS final rule (70 FR 47880) and in correcting amendments to the FY 2006 IRF PPS final rule (70 FR 57166), we finalized a number of refinements to the IRF PPS case-mix classification system (the CMGs and the corresponding relative weights) and the case-level and facility-level adjustments. These refinements included the adoption of the Office of Management and Budget's (OMB) Core-Based Statistical Area (CBSA) market definitions; modifications to the CMGs, tier comorbidities; and CMG relative weights, implementation of a new teaching status adjustment for IRFs; rebasing and revising the market basket index used to update IRF payments, and updates to the rural, low-income percentage (LIP), and high-cost outlier adjustments. Beginning with the FY 2006 IRF PPS final rule (70 FR 47908 through 47917), the market basket index used to update IRF payments was a market basket reflecting the operating and capital cost structures for freestanding IRFs, freestanding inpatient psychiatric facilities (IPFs), and long-term care hospitals (LTCHs) (hereinafter referred to as the rehabilitation, psychiatric, and long-term care (RPL) market basket). Any reference to the FY 2006 IRF PPS final rule in this proposed rule also includes the provisions effective in the correcting amendments. For a detailed discussion of the final key policy changes for FY 2006, please refer to the FY 2006 IRF PPS final rule.

In the FY 2007 IRF PPS final rule (71 FR 48354), we further refined the IRF PPS case-mix classification system (the

CMG relative weights) and the case-level adjustments, to ensure that IRF PPS payments would continue to reflect as accurately as possible the costs of care. For a detailed discussion of the FY 2007 policy revisions, please refer to the FY 2007 IRF PPS final rule.

In the FY 2008 IRF PPS final rule (72 FR 44284), we updated the prospective payment rates and the outlier threshold, revised the IRF wage index policy, and clarified how we determine high-cost outlier payments for transfer cases. For more information on the policy changes implemented for FY 2008, please refer to the FY 2008 IRF PPS final rule.

After publication of the FY 2008 IRF PPS final rule (72 FR 44284), section 115 of the Medicare, Medicaid, and SCHIP Extension Act of 2007 (Pub. L. 110–173, enacted on December 29, 2007) (MMSEA) amended section 1886(j)(3)(C) of the Act to apply a zero percent increase factor for FYs 2008 and 2009, effective for IRF discharges occurring on or after April 1, 2008. Section 1886(j)(3)(C) of the Act required the Secretary to develop an increase factor to update the IRF prospective payment rates for each FY. Based on the legislative change to the increase factor, we revised the FY 2008 prospective payment rates for IRF discharges occurring on or after April 1, 2008. Thus, the final FY 2008 IRF prospective payment rates that were published in the FY 2008 IRF PPS final rule (72 FR 44284) were effective for discharges occurring on or after October 1, 2007, and on or before March 31, 2008, and the revised FY 2008 IRF prospective payment rates were effective for discharges occurring on or after April 1, 2008, and on or before September 30, 2008. The revised FY 2008 prospective payment rates are available on the CMS website at <http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/Data-Files.html>.

In the FY 2009 IRF PPS final rule (73 FR 46370), we updated the CMG relative weights, the average length of stay values, and the outlier threshold; clarified IRF wage index policies regarding the treatment of “New England deemed” counties and multi-campus hospitals; and revised the regulation text in response to section 115 of the MMSEA to set the IRF compliance percentage at 60 percent (the “60 percent rule”) and continue the practice of including comorbidities in the calculation of compliance percentages. We also applied a zero percent market basket increase factor for FY 2009 in accordance with section 115 of the MMSEA. For more information on the policy changes implemented for FY

2009, please refer to the FY 2009 IRF PPS final rule.

In the FY 2010 IRF PPS final rule (74 FR 39762) and in correcting amendments to the FY 2010 IRF PPS final rule (74 FR 50712), we updated the prospective payment rates, the CMG relative weights, the average length of stay values, the rural, LIP, teaching status adjustment factors, and the outlier threshold; implemented new IRF coverage requirements for determining whether an IRF claim is reasonable and necessary; and revised the regulation text to require IRFs to submit patient assessments on Medicare Advantage (MA) (formerly called Medicare Part C) patients for use in the 60 percent rule calculations. Any reference to the FY 2010 IRF PPS final rule in this proposed rule also includes the provisions effective in the correcting amendments. For more information on the policy changes implemented for FY 2010, please refer to the FY 2010 IRF PPS final rule.

After publication of the FY 2010 IRF PPS final rule (74 FR 39762), section 3401(d) of the Patient Protection and Affordable Care Act (Pub. L. 111–148, enacted on March 23, 2010), as amended by section 10319 of the same Act and by section 1105 of the Health Care and Education Reconciliation Act of 2010 (Pub. L. 111–152, enacted on March 30, 2010) (collectively, hereinafter referred to as “PPACA”), amended section 1886(j)(3)(C) of the Act and added section 1886(j)(3)(D) of the Act. Section 1886(j)(3)(C) of the Act requires the Secretary to estimate a multifactor productivity (MFP) adjustment to the market basket increase factor, and to apply other adjustments as defined by the Act. The productivity adjustment applies to FYs from 2012 forward. The other adjustments apply to FYs 2010 to 2019.

Sections 1886(j)(3)(C)(ii)(II) and 1886(j)(3)(D)(i) of the Act defined the adjustments that were to be applied to the market basket increase factors in FYs 2010 and 2011. Under these provisions, the Secretary was required to reduce the market basket increase factor in FY 2010 by a 0.25 percentage point adjustment. Notwithstanding this provision, in accordance with section 3401(p) of the PPACA, the adjusted FY 2010 rate was only to be applied to discharges occurring on or after April 1, 2010. Based on the self-implementing legislative changes to section 1886(j)(3) of the Act, we adjusted the FY 2010 prospective payment rates as required, and applied these rates to IRF discharges occurring on or after April 1, 2010, and on or before September 30, 2010. Thus, the final FY 2010 IRF

prospective payment rates that were published in the FY 2010 IRF PPS final rule (74 FR 39762) were used for discharges occurring on or after October 1, 2009, and on or before March 31, 2010, and the adjusted FY 2010 IRF prospective payment rates applied to discharges occurring on or after April 1, 2010, and on or before September 30, 2010. The adjusted FY 2010 prospective payment rates are available on the CMS website at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/IRF-Rules-and-Related-Files.html>.

In addition, sections 1886(j)(3)(C) and (D) of the Act also affected the FY 2010 IRF outlier threshold amount because they required an adjustment to the FY 2010 RPL market basket increase factor, which changed the standard payment conversion factor for FY 2010. Specifically, the original FY 2010 IRF outlier threshold amount was determined based on the original estimated FY 2010 RPL market basket increase factor of 2.5 percent and the standard payment conversion factor of \$13,661. However, as adjusted, the IRF prospective payments were based on the adjusted RPL market basket increase factor of 2.25 percent and the revised standard payment conversion factor of \$13,627. To maintain estimated outlier payments for FY 2010 equal to the established standard of 3 percent of total estimated IRF PPS payments for FY 2010, we revised the IRF outlier threshold amount for FY 2010 for discharges occurring on or after April 1, 2010, and on or before September 30, 2010. The revised IRF outlier threshold amount for FY 2010 was \$10,721.

Sections 1886(j)(3)(C)(ii)(II) and 1886(j)(3)(D)(i) of the Act also required the Secretary to reduce the market basket increase factor in FY 2011 by a 0.25 percentage point adjustment. The FY 2011 IRF PPS notice (75 FR 42836) and the correcting amendments to the FY 2011 IRF PPS notice (75 FR 70013) described the required adjustments to the FY 2010 and FY 2011 IRF PPS prospective payment rates and outlier threshold amount for IRF discharges occurring on or after April 1, 2010, and on or before September 30, 2011. It also updated the FY 2011 prospective payment rates, the CMG relative weights, and the average length of stay values. Any reference to the FY 2011 IRF PPS notice in this proposed rule also includes the provisions effective in the correcting amendments. For more information on the FY 2010 and FY 2011 adjustments or the updates for FY 2011, please refer to the FY 2011 IRF PPS notice.

In the FY 2012 IRF PPS final rule (76 FR 47836), we updated the IRF prospective payment rates, rebased and revised the RPL market basket, and established a new QRP for IRFs in accordance with section 1886(j)(7) of the Act. We also consolidated, clarified, and revised existing policies regarding IRF hospitals and IRF units of hospitals to eliminate unnecessary confusion and enhance consistency. For more information on the policy changes implemented for FY 2012, please refer to the FY 2012 IRF PPS final rule.

The FY 2013 IRF PPS notice (77 FR 44618) described the required adjustments to the FY 2013 prospective payment rates and outlier threshold amount for IRF discharges occurring on or after October 1, 2012, and on or before September 30, 2013. It also updated the FY 2013 prospective payment rates, the CMG relative weights, and the average length of stay values. For more information on the updates for FY 2013, please refer to the FY 2013 IRF PPS notice.

In the FY 2014 IRF PPS final rule (78 FR 47860), we updated the prospective payment rates, the CMG relative weights, and the outlier threshold amount. We also updated the facility-level adjustment factors using an enhanced estimation methodology, revised the list of diagnosis codes that count toward an IRF's 60 percent rule compliance calculation to determine "presumptive compliance," revised sections of the inpatient rehabilitation facility patient assessment instrument (IRF-PAI), revised requirements for acute care hospitals that have IRF units, clarified the IRF regulation text regarding limitation of review, updated references to previously changed sections in the regulations text, and updated requirements for the IRF QRP. For more information on the policy changes implemented for FY 2014, please refer to the FY 2014 IRF PPS final rule.

In the FY 2015 IRF PPS final rule (79 FR 45872) and the correcting amendments to the FY 2015 IRF PPS final rule (79 FR 59121), we updated the prospective payment rates, the CMG relative weights, and the outlier threshold amount. We also revised the list of diagnosis codes that count toward an IRF's 60 percent rule compliance calculation to determine "presumptive compliance," revised sections of the IRF-PAI, and updated requirements for the IRF QRP. Any reference to the FY 2015 IRF PPS final rule in this proposed rule also includes the provisions effective in the correcting amendments. For more information on the policy changes implemented for FY 2015,

please refer to the FY 2015 IRF PPS final rule.

In the FY 2016 IRF PPS final rule (80 FR 47036), we updated the prospective payment rates, the CMG relative weights, and the outlier threshold amount. We also adopted an IRF-specific market basket that reflects the cost structures of only IRF providers, a blended 1-year transition wage index based on the adoption of new OMB area delineations, a 3-year phase-out of the rural adjustment for certain IRFs due to the new OMB area delineations, and updates for the IRF QRP. For more information on the policy changes implemented for FY 2016, please refer to the FY 2016 IRF PPS final rule.

In the FY 2017 IRF PPS final rule (81 FR 52056) and the correcting amendments to the FY 2017 IRF PPS final rule (81 FR 59901), we updated the prospective payment rates, the CMG relative weights, and the outlier threshold amount. We also updated requirements for the IRF QRP. Any reference to the FY 2017 IRF PPS final rule in this proposed rule also includes the provisions effective in the correcting amendments. For more information on the policy changes implemented for FY 2017, please refer to the FY 2017 IRF PPS final rule.

In the FY 2018 IRF PPS final rule (82 FR 36238), we updated the prospective payment rates, the CMG relative weights, and the outlier threshold amount. We also revised the International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) diagnosis codes that are used to determine presumptive compliance under the "60 percent rule," removed the 25 percent payment penalty for IRF-PAI late transmissions, removed the voluntary swallowing status item (Item 27) from the IRF-PAI, summarized comments regarding the criteria used to classify facilities for payment under the IRF PPS, provided for a subregulatory process for certain annual updates to the presumptive methodology diagnosis code lists, adopted the use of height/weight items on the IRF-PAI to determine patient body mass index (BMI) greater than 50 for cases of single-joint replacement under the presumptive methodology, and updated requirements for the IRF QRP. For more information on the policy changes implemented for FY 2018, please refer to the FY 2018 IRF PPS final rule.

In the FY 2019 IRF PPS final rule (83 FR 38514), we updated the prospective payment rates, the CMG relative weights, and the outlier threshold amount. We also alleviated administrative burden for IRFs by

removing the FIMTM instrument and associated Function Modifiers from the IRF-PAI beginning in FY 2020 and revised certain IRF coverage requirements to reduce the amount of required paperwork in the IRF setting beginning in FY 2019. Additionally, we incorporated certain data items located in the Quality Indicators section of the IRF-PAI into the IRF case-mix classification system using analysis of 2 years of data (FY 2017 and FY 2018) beginning in FY 2020. For the IRF QRP, we adopted a new measure removal factor, removed two measures from the IRF QRP measure set, and codified a number of program requirements in our regulations. For more information on the policy changes implemented for FY 2019, please refer to the FY 2019 IRF PPS final rule.

B. Provisions of the PPACA Affecting the IRF PPS in FY 2012 and Beyond

The PPACA included several provisions that affect the IRF PPS in FYs 2012 and beyond. In addition to what was previously discussed, section 3401(d) of the PPACA also added section 1886(j)(3)(C)(ii)(I) of the Act (providing for a "productivity adjustment" for fiscal year 2012 and each subsequent fiscal year). The productivity adjustment for FY 2020 is discussed in section V.D. of this proposed rule. Section 1886(j)(3)(C)(ii)(II) of the Act provides that the application of the productivity adjustment to the market basket update may result in an update that is less than 0.0 for a fiscal year and in payment rates for a fiscal year being less than such payment rates for the preceding fiscal year.

Sections 3004(b) of the PPACA and section 411(b) of the Medicare Access and CHIP Reauthorization Act of 2015 (Pub. L. 114-10, enacted on April 16, 2015) (MACRA) also addressed the IRF PPS. Section 3004(b) of PPACA reassigned the previously designated section 1886(j)(7) of the Act to section 1886(j)(8) of the Act and inserted a new section 1886(j)(7) of the Act, which contains requirements for the Secretary to establish a QRP for IRFs. Under that program, data must be submitted in a form and manner and at a time specified by the Secretary. Beginning in FY 2014, section 1886(j)(7)(A)(i) of the Act requires the application of a 2 percentage point reduction to the market basket increase factor otherwise applicable to an IRF (after application of subparagraphs (C)(iii) and (D) of section 1886(j)(3) of the Act) for a fiscal year if the IRF does not comply with the requirements of the IRF QRP for that fiscal year. Application of the 2

percentage point reduction may result in an update that is less than 0.0 for a fiscal year and in payment rates for a fiscal year being less than such payment rates for the preceding fiscal year. Reporting-based reductions to the market basket increase factor are not cumulative; they only apply for the FY involved. Section 411(b) of MACRA amended section 1886(j)(3)(C) of the Act by adding clause (iii), which required us to apply for FY 2018, after the application of section 1886(j)(3)(C)(ii) of the Act, an increase factor of 1.0 percent to update the IRF prospective payment rates.

C. Operational Overview of the Current IRF PPS

As described in the FY 2002 IRF PPS final rule (66 FR 41316), upon the admission and discharge of a Medicare Part A Fee-for-Service (FFS) patient, the IRF is required to complete the appropriate sections of a patient assessment instrument (PAI), designated as the IRF-PAI. In addition, beginning with IRF discharges occurring on or after October 1, 2009, the IRF is also required to complete the appropriate sections of the IRF-PAI upon the admission and discharge of each Medicare Advantage (MA) patient, as described in the FY 2010 IRF PPS final rule (74 FR 39762 and 74 FR 50712). All required data must be electronically encoded into the IRF-PAI software product. Generally, the software product includes patient classification programming called the Grouper software. The Grouper software uses specific IRF-PAI data elements to classify (or group) patients into distinct CMGs and account for the existence of any relevant comorbidities.

The Grouper software produces a five-character CMG number. The first character is an alphabetic character that indicates the comorbidity tier. The last four characters are numeric characters that represent the distinct CMG number. Free downloads of the Inpatient Rehabilitation Validation and Entry (IRVEN) software product, including the Grouper software, are available on the CMS website at <http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/Software.html>.

Once a Medicare Part A FFS patient is discharged, the IRF submits a Medicare claim as a Health Insurance Portability and Accountability Act of 1996 (Pub. L. 104–191, enacted on August 21, 1996) (HIPAA) compliant electronic claim or, if the Administrative Simplification Compliance Act of 2002 (Pub. L. 107–105, enacted on December 27, 2002)

(ASCA) permits, a paper claim (a UB–04 or a CMS–1450 as appropriate) using the five-character CMG number and sends it to the appropriate Medicare Administrative Contractor (MAC). In addition, once a MA patient is discharged, in accordance with the Medicare Claims Processing Manual, chapter 3, section 20.3 (Pub. L. 100–04), hospitals (including IRFs) must submit an informational-only bill (Type of Bill (TOB) 111), which includes Condition Code 04 to their MAC. This will ensure that the MA days are included in the hospital's Supplemental Security Income (SSI) ratio (used in calculating the IRF LIP adjustment) for fiscal year 2007 and beyond. Claims submitted to Medicare must comply with both ASCA and HIPAA.

Section 3 of the ASCA amended section 1862(a) of the Act by adding paragraph (22), which requires the Medicare program, subject to section 1862(h) of the Act, to deny payment under Part A or Part B for any expenses for items or services for which a claim is submitted other than in an electronic form specified by the Secretary. Section 1862(h) of the Act, in turn, provides that the Secretary shall waive such denial in situations in which there is no method available for the submission of claims in an electronic form or the entity submitting the claim is a small provider. In addition, the Secretary also has the authority to waive such denial in such unusual cases as the Secretary finds appropriate. For more information, see the “Medicare Program; Electronic Submission of Medicare Claims” final rule (70 FR 71008). Our instructions for the limited number of Medicare claims submitted on paper are available at <http://www.cms.gov/manuals/downloads/clm104c25.pdf>.

Section 3 of the ASCA operates in the context of the administrative simplification provisions of HIPAA, which include, among others, the requirements for transaction standards and code sets codified in 45 CFR part 160 and part 162, subparts A and I through R (generally known as the Transactions Rule). The Transactions Rule requires covered entities, including covered health care providers, to conduct covered electronic transactions according to the applicable transaction standards. (See the CMS program claim memoranda at <http://www.cms.gov/ElectronicBillingEDITrans/> and listed in the addenda to the Medicare Intermediary Manual, Part 3, section 3600).

The MAC processes the claim through its software system. This software system includes pricing programming called the “Pricer” software. The Pricer

software uses the CMG number, along with other specific claim data elements and provider-specific data, to adjust the IRF's prospective payment for interrupted stays, transfers, short stays, and deaths, and then applies the applicable adjustments to account for the IRF's wage index, percentage of low-income patients, rural location, and outlier payments. For discharges occurring on or after October 1, 2005, the IRF PPS payment also reflects the teaching status adjustment that became effective as of FY 2006, as discussed in the FY 2006 IRF PPS final rule (70 FR 47880).

D. Advancing Health Information Exchange

The Department of Health and Human Services (HHS) has a number of initiatives designed to encourage and support the adoption of interoperable health information technology and to promote nationwide health information exchange to improve health care. The Office of the National Coordinator for Health Information Technology (ONC) and CMS work collaboratively to advance interoperability across settings of care, including post-acute care.

To further interoperability in post-acute care, we developed a Data Element Library (DEL) to serve as a publicly-available centralized, authoritative resource for standardized data elements and their associated mappings to health IT standards. The DEL furthers CMS' goal of data standardization and interoperability, which is also a goal of the Improving Medicare Post-Acute Care Transformation Act of 2014 (IMPACT Act). These interoperable data elements can reduce provider burden by allowing the use and exchange of healthcare data, support provider exchange of electronic health information for care coordination, person-centered care, and support real-time, data driven, clinical decision making. Standards in the Data Element Library (<https://del.cms.gov/>) can be referenced on the CMS website and in the ONC Interoperability Standards Advisory (ISA). The 2019 ISA is available at <https://www.healthit.gov/isa>.

The 21st Century Cures Act (Pub. L. 114–255, enacted on December 13, 2016) (Cures Act), requires HHS to take new steps to enable the electronic sharing of health information ensuring interoperability for providers and settings across the care continuum. In another important provision, Congress defined “information blocking” as practices likely to interfere with, prevent, or materially discourage access, exchange, or use of electronic health

information, and established new authority for HHS to discourage these practices. In March 2019, ONC and CMS published the proposed rules, “21st Century Cures Act: Interoperability, Information Blocking, and the ONC Health IT Certification Program,” (84 FR 7424) and “Interoperability and Patient Access” (84 FR 7610) to promote secure and more immediate access to health information for patients and healthcare providers through the implementation of information blocking provisions of the Cures Act and the use of standardized application programming interfaces (APIs) that enable easier access to electronic health information. These two proposed rules are open for public comment at www.regulations.gov. We invite providers to learn more about these important developments and how they are likely to affect IRFs.

II. Summary of Provisions of the Proposed Rule

In this proposed rule, we propose to update the IRF prospective payment rates for FY 2020 and to rebase and revise the IRF market basket to reflect a 2016 base year rather than the current 2012 base year. We are also proposing to replace the previously finalized unweighted motor score with a weighted motor score to assign patients to CMGs and remove one item from the score beginning with FY 2020 and to revise the CMGs and update the CMG relative weights and average length of stay values beginning with FY 2020, based on analysis of 2 years of data (FY 2017 and FY 2018). We are also proposing to use the concurrent IPPS wage index for the IRF PPS beginning with FY 2020. We are also soliciting comments on stakeholder concerns regarding the appropriateness of the wage index used to adjust IRF payments. We are proposing to amend the regulations at § 412.622 to clarify that the determination as to whether a physician qualifies as a rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation) is made by the IRF.

The proposed policy changes and updates to the IRF prospective payment rates for FY 2020 are as follows:

- Describe a proposed weighted motor score to replace the previously finalized unweighted motor score to assign a patient to a CMG, the removal of one item from the score, and revisions to the CMGs beginning on October 1, 2019, based on analysis of 2 years of data (FY 2017 and FY 2018) using the Quality Indicator items in the IRF-PAI. This includes proposed

revisions to the CMG relative weights and average length of stay values for FY 2020, in a budget neutral manner, as discussed in section III. of this proposed rule.

- Describe the proposed rebased and revised IRF market basket to reflect a 2016 base year rather than the current 2012 base year as discussed in section V. of this proposed rule.
- Update the IRF PPS payment rates for FY 2020 by the proposed market basket increase factor, based upon the most current data available, with a proposed productivity adjustment required by section 1886(j)(3)(C)(ii)(I) of the Act, as described in section V. of this proposed rule.
- Describe the proposed update to the IRF wage index to use the concurrent IPPS wage index and the FY 2020 proposed labor-related share in a budget-neutral manner, as described in section V. of this proposed rule.
- Describe the continued use of FY 2014 facility-level adjustment factors, as discussed in section IV. of this proposed rule.
- Describe the calculation of the IRF standard payment conversion factor for FY 2020, as discussed in section V. of this proposed rule.
- Update the outlier threshold amount for FY 2020, as discussed in section VI. of this proposed rule.
- Update the cost-to-charge ratio (CCR) ceiling and urban/rural average CCRs for FY 2020, as discussed in section VI. of this proposed rule.
- Describe the proposed amendments to the regulations at § 412.622 to clarify that the determination as to whether a physician qualifies as a rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation) is made by the IRF, as discussed in section VII. of this proposed rule.
- Updates to the requirements for the IRF QRP, as discussed in section VIII. of this proposed rule.

III. Proposed Refinements to the Case-Mix Classification System Beginning With FY 2020

A. Background

Section 1886(j)(2)(A) of the Act requires the Secretary to establish case-mix groups for payment under the IRF PPS and a method of classifying specific IRF patients within these groups. Under section 1886(j)(2)(B) of the Act, the Secretary must assign each case-mix group an appropriate weighting factor that reflects the relative facility resources used for patients classified within the group as compared to patients classified within other groups.

Additionally, section 1886(j)(2)(C)(i) of the Act requires the Secretary from time to time to adjust the established classifications and weighting factors as appropriate to reflect changes in treatment patterns, technology, case-mix, number of payment units for which payment is made under title XVIII of the Act, and other factors which may affect the relative use of resources. Such adjustments must be made in a manner so that changes in aggregate payments under the classification system are a result of real changes and are not a result of changes in coding that are unrelated to real changes in case mix.

In the FY 2019 IRF PPS final rule (83 FR 38533 through 38549), we finalized the removal of the Functional Independence Measure (FIM™) instrument and associated Function Modifiers from the IRF-PAI and the incorporation of an unweighted additive motor score derived from 19 data items located in the Quality Indicators section of the IRF-PAI beginning with FY 2020 (83 FR 38535 through 38536, 38549). As discussed in section III.B of this proposed rule, based on further analysis to examine the potential impact of weighting the motor score, we are proposing to replace the previously finalized unweighted motor score with a weighted motor score and remove one item from the score beginning with FY 2020.

Additionally, as noted in the FY 2019 IRF PPS final rule (83 FR 38534), the incorporation of the data items from the Quality Indicator section of the IRF-PAI into the IRF case-mix classification system necessitates revisions to the CMGs to ensure that IRF payments are calculated accurately. We finalized the use of data items from the Quality Indicators section of the IRF-PAI to construct the functional status scores used to classify IRF patients in the IRF case-mix classification system for purposes of establishing payment under the IRF PPS beginning with FY 2020, but modified our proposal based on public comments to incorporate two years of data (FYs 2017 and 2018) into our analyses used to revise the CMG definitions (83 FR 38549). We stated that any changes to the proposed CMG definitions resulting from the incorporation of an additional year of data (FY 2018) into the analysis would be addressed in future rulemaking prior to their implementation beginning in FY 2020. As discussed in section III.C of this proposed rule, we are proposing to revise the CMGs based on analysis of 2 years of data (FYs 2017 and 2018) beginning with FY 2020. We are also proposing to update the relative weights and average length of stay values

associated with the revised CMGs beginning with FY 2020.

B. Proposed Use of a Weighted Motor Score Beginning With FY 2020

As noted in the FY 2019 IRF PPS final rule (83 FR 38535), the IRF case-mix classification system currently uses a weighted motor score based on FIM™ data items to assign patients to CMGs under the IRF PPS through FY 2019. More information on the development and implementation of this motor score can be found in the FY 2006 IRF PPS final rule (70 FR 47896 through 47900). In the FY 2019 IRF PPS final rule (83 FR 38535 through 38536, 38549), we finalized the incorporation of an unweighted additive motor score derived from 19 data items located in the Quality Indicators section of the IRF-PAI beginning with FY 2020. We did not propose a weighted motor score at the time, because we believed that the unweighted motor score would facilitate greater understanding among the provider community, as it is less complex. However, we also noted that we would take comments in favor of a weighted motor score into consideration in future analysis. In response to feedback we received from various stakeholders and professional organizations regarding the use of an unweighted motor score and requesting that we consider weighting the motor score, we extended our contract with Research Triangle Institute, International (RTI) to examine the potential impact of weighting the motor score. Based on this analysis, discussed further below, we now believe that a weighted motor score would improve the accuracy of payments to IRFs, and we are proposing to replace the previously finalized unweighted motor score with a weighted motor score to assign patients to CMGs beginning with FY 2020.

The previously finalized motor score is calculated by summing the scores of the 19 data items, with equal weight applied to each item. The 19 data items are (83 FR 38535):

- GG0130A1 Eating.
- GG0130B1 Oral hygiene.
- GG0130C1 Toileting hygiene.
- GG0130E1 Shower/bathe self.
- GG0130F1 Upper-body dressing.
- GG0130G1 Lower-body dressing.
- GG0130H1 Putting on/taking off footwear.
- GG0170A1 Roll left and right.
- GG0170B1 Sit to lying.
- GG0170C1 Lying to sitting on side of bed.
- GG0170D1 Sit to stand.
- GG0170E1 Chair/bed-to-chair transfer.

- GG0170F1 Toilet transfer.
- GG0170I1 Walk 10 feet.
- GG0170J1 Walk 50 feet with two turns.
- GG0170K1 Walk 150 feet.
- GG0170M1 One step curb.
- H0350 Bladder continence.
- H0400 Bowel continence.

In response to feedback we received from various stakeholders and professional organizations requesting that we consider applying weights to the motor score, we extended our contract with RTI to explore the potential of applying unique weights to each of the 19 items in the motor score.

As part of their analysis, RTI examined the degree to which the items used to construct the motor score were related to one another and adjusted their weighting methodology to account for their findings. RTI considered a number of different weighting methodologies to develop a weighted index that would increase the predictive power of the IRF case-mix classification system while at the same time maintaining simplicity. RTI used regression analysis to explore the relationship of the motor score items to costs. This analysis was undertaken to determine the impact of each of the items on cost and then to weight each item in the index according to its relative impact on cost. Based on findings from this analysis, we are proposing to remove the item GG0170A1 Roll left and right from the motor score as this item was found to have a high degree of multicollinearity with other items in the motor score and behaved unexpectedly across the regression models considered in the development of the weighted index. Using the revised motor score composed of the remaining 18 items identified above, RTI designed a weighting methodology for the motor score that could be applied uniformly across all RICs. For a more detailed discussion of the analysis used to construct the weighted motor score, we refer readers to the March 2019 technical report entitled “Analyses to Inform the Use of Standardized Patient Assessment Data Elements in the Inpatient Rehabilitation Facility Prospective Payment System”, available at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/Research.html>. Findings from this analysis suggest that the use of a weighted motor score index slightly improves the ability of the IRF PPS to predict patient costs. Based on this analysis, we believe it is appropriate to utilize a weighted motor score for the purpose of determining IRF payments.

Table 1 shows the proposed weights for each component of the motor score,

averaged to 1, obtained through the regression analysis.

TABLE 1—PROPOSED MOTOR SCORE WEIGHT INDEX

Item	Weight
GG0130A1—Eating	2.7
GG0130B1—Oral hygiene	0.3
GG0130C1—Toileting hygiene	2.0
GG0130E1—Shower bathe self	0.7
GG0130F1—Upper-body dressing	0.5
GG0130G1—Lower-body dressing	1.0
GG0130H1—Putting on/taking off footwear	1.0
GG0170B1—Sit to lying	0.1
GG0170C1—Lying to sitting on side of bed	0.1
GG0170D1—Sit to stand	1.1
GG0170E1—Chair/bed-to-chair transfer	1.1
GG0170F1—Toilet transfer	1.6
GG0170I1—Walk 10 feet	0.8
GG0170J1—Walk 50 feet with two turns	0.8
GG0170K1—Walk 150 feet	0.8
GG0170M1—One-step curb	1.4
H0350—Bladder Continence	1.3
H0400—Bowel Continence	0.7

We are proposing to determine the motor score by applying each of the weights indicated in Table 1 to the score of each corresponding item, as finalized in the FY 2019 IRF PPS final rule (83 FR 38535 through 38537), and then summing the weighted scores for each of the 18 items that compose the motor score.

We invite public comments on the proposal to replace the previously finalized unweighted motor score with a weighted motor score to assign patients to CMGs under the IRF PPS and our proposal to remove the item GG0170A1 Roll left and right from the calculation of the motor score beginning with FY 2020, that is, for all discharges beginning on or after October 1, 2019.

C. Proposed Revisions to the CMGs and Proposed Updates to the CMG Relative Weights and Average Length of Stay Values Beginning With FY 2020

In the FY 2019 IRF PPS final rule (83 FR 38549), we finalized the use of data items from the Quality Indicators section of the IRF-PAI to construct the functional status scores used to classify IRF patients in the IRF case-mix classification system for purposes of establishing payment under the IRF PPS beginning with FY 2020, but modified our proposal based on public comments to incorporate two years of data (FY 2017 and FY 2018) into our analyses used to revise the CMG definitions. We stated that any changes to the proposed CMG definitions resulting from the incorporation of an additional year of data (FY 2018) into the analysis would be addressed in future rulemaking prior to their implementation beginning in FY 2020. Additionally, we stated that we would also update the relative weights and average length of stay values

associated with any revised CMG definitions in future rulemaking.

We have continued our contract with RTI to support us in developing proposed revisions to the CMGs used under the IRF PPS based on analysis of 2 years of data (FY 2017 and FY 2018). The process RTI uses for its analysis, which is based on a Classification and Regression Tree (CART) algorithm, is described in detail in the FY 2019 IRF PPS final rule (83 FR 38536 through 38540). RTI has used this analysis to revise the CMGs utilizing FY 2017 and FY 2018 claim and assessment data and to develop revised CMGs that reflect the use of the data items collected in the Quality Indicators section of the IRF-PAI, incorporating the proposed weighted motor score, described in

section III.B of this proposed rule. To develop the proposed revised CMGs, RTI used CART analysis to divide patients into payment groups based on similarities in their clinical characteristics and relative costs. As part of this analysis, RTI imposed some typically-used constraints on the payment group divisions (for example, on the minimum number of cases that could be in the resulting payment groups and the minimum dollar payment amount differences between groups) to identify the optimal set of payment groups. For a more detailed discussion of the analysis used to revise the CMGs for FY 2020, we refer readers to the March 2019 technical report entitled, “Analyses to Inform the Use of Standardized Patient Assessment Data

Elements in the Inpatient Rehabilitation Facility Prospective Payment System” available at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/Research.html>.

As noted in the FY 2019 IRF PPS final rule (83 FR 38533 through 38549), we finalized the construction of a motor score, a memory score, and a communication score to be considered for use in our ongoing analysis to revise the CMGs based on FY 2017 and FY 2018 data. In developing the proposed CMGs using both FY 2017 and FY 2018 data, cognitive status as reflected through the communication score emerged as a potential split point for CMGs in RICs 12 and 16 as shown in Table 2.

TABLE 2: CART-Based CMGs for RIC 12 (Osteoarthritis) and RIC 16 (Pain Syndrome)

RIC	CMG	Avg. Cost	Rule 1	Rule 2	Rule 3
12	01	\$ 10,925.68	Motor $\geq$ 59.45	Communication $<$ 7.50	
12	02	\$ 12,833.57	Motor $\geq$ 59.45	Communication $\geq$ 7.50	
12	03	\$ 13,403.56	Motor $\geq$ 49.90	Motor $<$ 59.45	Age $\geq$ 81.50
12	04	\$ 14,842.63	Motor $\geq$ 49.90	Motor $<$ 59.45	Age $<$ 81.50
12	05	\$ 15,192.18	Motor $<$ 49.90	Communication $<$ 6.50	
12	06	\$ 17,251.37	Motor $<$ 49.90	Communication $\geq$ 6.50	
16	01	\$ 11,459.93	Motor $\geq$ 65.55		
16	02	\$ 13,900.25	Motor $\geq$ 56.65	Motor $<$ 65.55	
16	03	\$ 14,922.40	Motor $<$ 56.65	Age $\geq$ 71.50	Communication $<$ 6.50
16	04	\$ 16,570.66	Motor $<$ 56.65	Age $\geq$ 71.50	Communication $\geq$ 6.50
16	05	\$ 18,070.13	Motor $<$ 56.65	Age $<$ 71.50	

As similarly discussed in the FY 2019 IRF PPS final rule (83 FR 38537 through 38546), the inclusion of the communication score in these CMG definitions would result in lower payments for patients with higher cognitive deficits. As we believe it would be inappropriate to establish lower payments for patients with higher cognitive impairments, we are proposing to combine the CMGs within these RICs as shown in Table 3. As the CMGs we are proposing to combine within these RICs are only differentiated by a communication score, our proposal to consolidate the CMGs in these 2 RICs results in the exclusion of the communication score from the definitions of the proposed CMGs presented in Table 3 of this proposed rule. We would like to note that while the memory score did not emerge as a potential split point in the CART

analysis and the communication score was not ultimately selected as a determinant for the proposed CMGs, both scores were considered as possible elements in developing the proposed CMGs.

After developing the revised CMGs, RTI calculated the relative weights and average length of stay values for each revised CMG using the same methodologies that we have used to update the CMG relative weights and average length of stay values each fiscal year since 2009 when we implemented an update to this methodology. More information about the methodology used to update the CMG relative weights can be found in the FY 2009 IRF PPS final rule (73 FR 46372 through 46374). For FY 2020, we propose to use the FY 2017 and FY 2018 IRF claims and FY 2017 IRF cost report data to update the CMG relative weights and average

length of stay values. In calculating the CMG relative weights, we use a hospital-specific relative value method to estimate operating (routine and ancillary services) and capital costs of IRFs. As noted in the FY 2019 IRF PPS final rule (83 FR 38521), this is the same methodology that we have used to update the CMG relative weights and average length of stay values each fiscal year since we implemented an update to the methodology in the FY 2009 IRF PPS final rule (73 FR 46372 through 46374). More information on the methodology used to update calculate the CMG relative weights and average length of stay values can found in the March 2019 technical report entitled “Analyses to Inform the Use of Standardized Patient Assessment Data Elements in the Inpatient Rehabilitation Facility Prospective Payment System” available at <https://www.cms.gov/>

Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/Research.html. Consistent with the methodology that we have used to update the IRF classification system in each instance in the past, we are proposing to update the relative weights associated with the revised CMGs for FY 2020 in a budget neutral manner by applying a budget neutrality factor to the standard payment amount. To calculate the appropriate budget neutrality factor for use in updating the FY 2020 CMG relative weights, we use the following steps:

Step 1. Calculate the estimated total amount of IRF PPS payments for FY 2020 (with no changes to the CMG relative weights).

Step 2. Calculate the estimated total amount of IRF PPS payments for FY 2020 by applying the changes to the CMGs and the associated CMG relative weights (as described in this proposed rule).

Step 3. Divide the amount calculated in step 1 by the amount calculated in step 2 to determine the budget neutrality factor (1.0016) that would maintain the same total estimated aggregate payments in FY 2020 with and without the changes to the CMGs and the associated CMG relative weights.

Step 4. Apply the budget neutrality factor (1.0016) to the FY 2019 IRF PPS standard payment amount after the application of the budget-neutral wage adjustment factor.

In section V.H. of this proposed rule, we discuss the proposed use of the existing methodology to calculate the standard payment conversion factor for FY 2020.

In Table 3, we present the proposed revised CMGs and their respective descriptions, as well as the comorbidity tiers, corresponding relative weights and the average length of stay values for each proposed CMG and tier for FY 2020. The average length of stay for each CMG is used to determine when an IRF discharge meets the definition of a short-stay transfer, which results in a per diem case level adjustment.

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**TABLE 3: Proposed Relative Weights and Average Length of Stay Values
for the Proposed Case-Mix Groups**

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
0101	Stroke M >=72.00	1.0619	0.9248	0.8562	0.8152	11	11	10	10
0102	Stroke M >=63.90 and M <72.00	1.3354	1.1631	1.0768	1.0253	13	13	12	12
0103	Stroke M >=55.90 and M <63.90	1.5859	1.3812	1.2787	1.2175	15	15	14	14
0104	Stroke M >=50.40 and M <55.90	1.8612	1.6210	1.5008	1.4289	17	18	16	16
0105	Stroke M >=40.90 and M <50.40	2.2333	1.9450	1.8008	1.7146	20	21	19	19
0106	Stroke M <40.90 and A >=84.50	2.4326	2.1186	1.9615	1.8676	23	22	21	21
0107	Stroke M <40.90 and A <84.50	2.8402	2.4736	2.2902	2.1805	27	26	24	24
0201	Traumatic brain injury M >=65.20	1.3159	1.0824	0.9892	0.9214	12	13	11	11
0202	Traumatic brain injury M >=55.05 and M <65.20	1.6232	1.3351	1.2201	1.1365	14	15	14	13
0203	Traumatic brain injury M >=49.90 and M <55.05	1.8426	1.5156	1.3851	1.2902	16	17	15	15
0204	Traumatic brain injury M >=34.65 and M <49.90	2.1349	1.7560	1.6048	1.4949	20	20	17	17
0205	Traumatic brain injury M <34.65	2.6896	2.2123	2.0218	1.8832	32	24	22	19
0301	Non-traumatic brain injury M >=69.20	1.1831	0.9602	0.8920	0.8326	11	11	10	10
0302	Non-traumatic brain injury M >=54.40 and M <69.20	1.5158	1.2303	1.1428	1.0668	13	13	13	12
0303	Non-traumatic brain injury M >=44.65 and M <54.40	1.8380	1.4917	1.3857	1.2935	16	16	15	15
0304	Non-traumatic brain injury M <44.65 and A >=78.50	2.0873	1.6941	1.5737	1.4689	20	18	17	16
0305	Non-traumatic brain injury M <44.65 and A <78.50	2.2569	1.8317	1.7015	1.5883	21	20	18	17

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
0401	Traumatic spinal cord injury M >=59.15	1.3469	1.1477	1.0636	0.9766	13	12	12	12
0402	Traumatic spinal cord injury M >=46.35 and M <59.15	1.8182	1.5493	1.4358	1.3184	15	17	16	15
0403	Traumatic spinal cord injury M >=38.10 and M <46.35	2.4146	2.0575	1.9067	1.7508	23	23	20	19
0404	Traumatic spinal cord injury M <32.45 and A <61.50	3.1660	2.6978	2.5001	2.2956	34	31	28	23
0405	Traumatic spinal cord injury M >=32.45 and M <38.10	2.8545	2.4323	2.2541	2.0697	32	27	25	22
0406	Traumatic spinal cord injury M >=25.65 and M <32.45 and A >=61.50	3.2618	2.7794	2.5757	2.3651	37	32	27	26
0407	Traumatic spinal cord injury M <25.65 and A >=61.50	4.0436	3.4456	3.1931	2.9319	48	37	31	34
0501	Non-traumatic spinal cord injury M >=60.70	1.3019	1.0564	0.9906	0.9048	13	12	11	11
0502	Non-traumatic spinal cord injury M >=48.90 and M <60.70	1.7346	1.4075	1.3198	1.2055	16	15	15	14
0503	Non-traumatic spinal cord injury M >=40.40 and M <48.90	2.2683	1.8406	1.7259	1.5764	20	20	19	18
0504	Non-traumatic spinal cord injury M <40.40	2.8297	2.2961	2.1530	1.9666	29	24	23	21
0601	Neurological M >=66.60	1.3267	1.0265	0.9678	0.8781	12	11	11	10
0602	Neurological M >=53.90 and M <66.60	1.6480	1.2750	1.2022	1.0908	14	14	13	12

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
0603	Neurological M ≥44.50 and M <53.90	1.9518	1.5101	1.4238	1.2918	16	16	15	14
0604	Neurological M <44.50	2.2464	1.7380	1.6387	1.4868	20	18	17	16
0701	Fracture of lower extremity M ≥62.65	1.2794	1.0312	0.9863	0.8968	12	12	11	11
0702	Fracture of lower extremity M ≥52.50 and M <62.65	1.6238	1.3089	1.2519	1.1383	15	15	14	13
0703	Fracture of lower extremity M ≥44.00 and M <52.50	1.9191	1.5469	1.4795	1.3452	17	17	16	15
0704	Fracture of lower extremity M <44.00	2.1286	1.7157	1.6410	1.4921	18	18	17	17
0801	Replacement of lower extremity M ≥69.00	1.0169	0.8507	0.7719	0.7148	10	10	9	9
0802	Replacement of lower extremity M ≥56.80 and M <69.00	1.2485	1.0444	0.9477	0.8776	11	12	11	10
0803	Replacement of lower extremity M ≥45.45 and M <56.80	1.5244	1.2752	1.1571	1.0716	14	14	13	12
0804	Replacement of lower extremity M <45.45	1.8673	1.5621	1.4175	1.3127	16	16	15	14
0901	Other orthopedic M ≥64.95	1.2142	0.9706	0.9040	0.8322	11	11	10	10
0902	Other orthopedic M ≥52.70 and M <64.95	1.5326	1.2251	1.1411	1.0504	13	14	13	12
0903	Other orthopedic M ≥44.50 and M <52.70	1.8104	1.4471	1.3479	1.2408	16	16	15	14
0904	Other orthopedic M <44.50	2.0421	1.6324	1.5204	1.3996	18	17	16	16
1001	Amputation, lower extremity M ≥64.00	1.3062	1.1101	1.0101	0.9273	12	13	11	11
1002	Amputation, lower extremity M ≥51.90 and M <64.00	1.6752	1.4237	1.2954	1.1893	15	15	14	13

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
1003	Amputation, lower extremity M >=46.00 and M <51.90	1.9319	1.6419	1.4939	1.3716	17	18	16	15
1004	Amputation, lower extremity M <46.00	2.1597	1.8354	1.6701	1.5332	18	19	18	17
1101	Amputation, non-lower extremity M >=58.60	1.4170	1.1613	1.0781	0.9074	13	12	12	10
1102	Amputation, non-lower extremity M >=51.05 and M <58.60	1.8127	1.4856	1.3792	1.1608	16	15	14	13
1103	Amputation, non-lower extremity M <51.05	2.0274	1.6616	1.5426	1.2983	17	19	15	14
1201	Osteoarthritis M >=59.45	1.3177	1.0136	0.9807	0.9023	12	12	11	11
1202	Osteoarthritis M >=49.90 and M <59.45 and A >=81.50	1.6088	1.2376	1.1974	1.1017	14	14	13	13
1203	Osteoarthritis M >=49.90 and M <59.45 and A <81.50	1.6351	1.2578	1.2170	1.1197	13	14	14	12
1204	Osteoarthritis M <49.90	1.8585	1.4297	1.3833	1.2727	15	16	15	15
1301	Rheumatoid, other arthritis M >=64.35	1.1632	0.9757	0.9217	0.8541	10	10	10	10
1302	Rheumatoid, other arthritis M >=49.45 and M <64.35	1.4774	1.2394	1.1708	1.0848	13	15	13	12
1303	Rheumatoid, other arthritis M <49.45 and A >=73.50	1.8461	1.5486	1.4629	1.3555	14	18	16	15
1304	Rheumatoid, other arthritis M <49.45 and A <73.50	1.9350	1.6232	1.5334	1.4208	17	17	16	15
1401	Cardiac M >=68.80	1.1626	0.9450	0.8778	0.7879	11	11	10	9
1402	Cardiac M >=59.10 and M <68.80	1.4251	1.1584	1.0760	0.9658	13	13	12	11
1403	Cardiac M >=48.60 and M <59.10	1.6815	1.3668	1.2696	1.1396	15	15	14	13
1404	Cardiac M <48.60	1.9763	1.6065	1.4922	1.3394	18	17	15	14

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
1501	Pulmonary M ≥69.70	1.2419	1.0543	0.9813	0.9318	11	11	10	10
1502	Pulmonary M ≥57.15 and M <69.70	1.5077	1.2799	1.1913	1.1312	13	13	12	12
1503	Pulmonary M ≥44.60 and M <57.15	1.7841	1.5145	1.4096	1.3386	15	14	14	14
1504	Pulmonary M <44.60	2.0487	1.7391	1.6187	1.5371	20	17	15	15
1601	Pain syndrome M ≥65.55	1.1679	0.9313	0.8775	0.8092	10	11	10	10
1602	Pain syndrome M ≥56.65 and M <65.55	1.4665	1.1694	1.1019	1.0160	14	12	12	12
1603	Pain syndrome M <56.65 and A ≥71.50	1.7158	1.3682	1.2893	1.1888	13	14	14	14
1604	Pain syndrome M <56.65 and A <71.50	1.7564	1.4006	1.3197	1.2169	14	14	15	13
1701	Major multiple trauma without brain or spinal cord injury M ≥59.70	1.3943	1.0931	1.0271	0.9379	12	12	12	11
1702	Major multiple trauma without brain or spinal cord injury M ≥47.00 and M <59.70	1.8097	1.4187	1.3331	1.2173	15	15	15	14
1703	Major multiple trauma without brain or spinal cord injury M ≥37.80 and M <47.00	2.1547	1.6892	1.5872	1.4494	19	19	17	16
1704	Major multiple trauma without brain or spinal cord injury M <37.80	2.3848	1.8696	1.7567	1.6042	21	20	19	17
1801	Major multiple trauma with brain or spinal cord injury M ≥71.60	1.0749	0.9247	0.8435	0.7703	12	10	10	9

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
1802	Major multiple trauma with brain or spinal cord injury M $\geq$ 56.30 and M <71.60	1.4822	1.2751	1.1632	1.0623	13	15	13	12
1803	Major multiple trauma with brain or spinal cord injury M $\geq$ 43.40 and M <56.30	1.9134	1.6460	1.5015	1.3712	20	18	16	15
1804	Major multiple trauma with brain or spinal cord injury M $\geq$ 38.55 and M <43.40	2.2702	1.9530	1.7815	1.6270	24	21	19	18
1805	Major multiple trauma with brain or spinal cord injury M $\geq$ 30.30 and M <38.55	2.6189	2.2530	2.0552	1.8769	28	23	21	21
1806	Major multiple trauma with brain or spinal cord injury M <30.30	3.4786	2.9925	2.7299	2.4930	41	31	29	26
1901	Guillain-Barré M $\geq$ 60.85	1.2923	1.0458	1.0194	0.9800	14	13	12	12
1902	Guillain-Barré M $\geq$ 49.80 and M <60.85	1.8782	1.5199	1.4816	1.4244	18	17	15	16
1903	Guillain-Barré M $\geq$ 40.80 and M <49.80	2.5312	2.0483	1.9967	1.9196	27	22	22	21
1904	Guillain-Barré M <40.80	3.5306	2.8571	2.7850	2.6775	40	30	29	29
2001	Miscellaneous M $\geq$ 65.95	1.2374	1.0001	0.9368	0.8491	11	11	10	10
2002	Miscellaneous M $\geq$ 55.30 and M <65.95	1.5236	1.2315	1.1535	1.0455	14	13	12	12
2003	Miscellaneous M $\geq$ 46.80 and M <55.30	1.7648	1.4264	1.3361	1.2110	16	15	14	14
2004	Miscellaneous M <46.80 and A $\geq$ 78.50	1.9471	1.5737	1.4740	1.3360	18	17	16	15

CMG	CMG Description (M=motor, A=age)	Relative Weight				Average Length of Stay			
		Tier 1	Tier 2	Tier 3	No Comorbidity Tier	Tier 1	Tier 2	Tier 3	No Comorbidity Tier
2005	Miscellaneous M <46.80 and A <78.50	2.0925	1.6912	1.5841	1.4358	19	18	16	16
2101	Burns M ≥53.90	1.5396	1.2552	1.1924	1.0556	14	13	14	12
2102	Burns M <53.90	2.1835	1.7802	1.6912	1.4970	22	19	16	17
5001	Short-stay cases, length of stay is 3 days or fewer				0.1815				3
5101	Expired, orthopedic, length of stay is 13 days or fewer				0.5698				6
5102	Expired, orthopedic, length of stay is 14 days or more				1.7898				18
5103	Expired, not orthopedic, length of stay is 15 days or fewer				0.6737				7
5104	Expired, not orthopedic, length of stay is 16 days or more				2.1977				22

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A list of the FY 2019 CMGs can be found in the FY 2019 IRF PPS final rule (83 FR 38521 through 38523). The following would be the most significant differences between the FY 2019 CMGs and the proposed revised CMGs:

- There would be more CMGs than before (97 instead of 92 currently).
- There would be fewer CMGs in RICs 1, 2, 5, and 8 while there would

be more CMGs in RICs 3, 4, 10, 11, 12, 13, 16, 18, 19, and 21.

- A patient's age would affect assignment for CMGs in RICs 1, 3, 4, 12, 13, 16, and 20 whereas it currently affects assignment for CMGs in RICs 1, 4, and 8.

We are proposing to utilize the CMGs identified in Table 3 to classify IRF patients for purposes of establishing payment under the IRF PPS beginning with FY 2020, that is, for all discharges

on or after October 1, 2019. We are proposing to implement these revisions in a budget neutral manner. For more information on the specific impacts of this proposal, we refer readers to Table 4. We are also proposing to update the CMG relative weights and average length of stay values associated with the proposed CMGs based on the data items from the Quality Indicators section of the IRF-PAI.

TABLE 4—DISTRIBUTIONAL EFFECTS OF THE PROPOSED CHANGES TO THE CMGS

Facility classification (1)	Number of IRFs (2)	Number of cases (3)	Estimated impact of proposed CMG revisions (4)
Total	1,119	409,982	0.0
Urban unit	696	166,872	2.5
Rural unit	136	21,700	2.9
Urban hospital	276	216,894	-2.2
Rural hospital	11	4,516	-3.6
Urban For-Profit	357	211,280	-1.8
Rural For-Profit	36	7,920	0.1
Urban Non-Profit	522	150,310	1.6
Rural Non-Profit	90	15,166	2.2
Urban Government	93	22,176	3.1
Rural Government	21	3,130	4.1
Urban	972	383,766	-0.1

TABLE 4—DISTRIBUTIONAL EFFECTS OF THE PROPOSED CHANGES TO THE CMGs—Continued

Facility classification (1)	Number of IRFs (2)	Number of cases (3)	Estimated impact of proposed CMG revisions (4)
Rural	147	26,216	1.8
Urban by region			
Urban New England	29	16,260	−2.3
Urban Middle Atlantic	135	51,539	−1.6
Urban South Atlantic	147	77,315	−0.5
Urban East North Central	165	50,466	2.3
Urban East South Central	56	27,966	−0.6
Urban West North Central	74	20,822	1.0
Urban West South Central	184	84,068	−0.5
Urban Mountain	83	30,294	−0.6
Urban Pacific	99	25,036	2.1
Rural by region			
Rural New England	5	1,317	−2.4
Rural Middle Atlantic	12	1,248	1.2
Rural South Atlantic	16	3,639	−2.4
Rural East North Central	23	4,061	1.5
Rural East South Central	21	4,523	3.9
Rural West North Central	22	3,178	2.4
Rural West South Central	40	7,332	3.6
Rural Mountain	5	626	1.8
Rural Pacific	3	292	3.0
Teaching status			
Non-teaching	1,014	362,675	−0.2
Resident to ADC less than 10%	60	34,000	0.7
Resident to ADC 10%–19%	31	11,784	2.6
Resident to ADC greater than 19%	14	1,523	4.3
Disproportionate share patient percentage (DSH PP)			
DSH PP = 0%	29	5,300	−1.3
DSH PP <5%	139	60,003	−1.6
DSH PP 5%–10%	299	127,442	−0.7
DSH PP 10%–20%	371	139,001	0.0
DSH PP greater than 20%	281	78,236	2.1

Table 4 shows how we estimate that the application of the proposed revisions to the case-mix system for FY 2020 would affect particular groups. Table 4 categorizes IRFs by geographic location, including urban or rural location, and location for CMS's 9 Census divisions of the country. In addition, Table 4 divides IRFs into those that are separate rehabilitation hospitals (otherwise called freestanding hospitals in this section), those that are rehabilitation units of a hospital (otherwise called hospital units in this section), rural or urban facilities, ownership (otherwise called for-profit, non-profit, and government), by teaching status, and by disproportionate share patient percentage (DSH PP). The proposed changes to the case-mix classification system are expected to affect the overall distribution of

payments across CMGs. Note that, because we propose to implement the revisions to the case-mix classification system in a budget-neutral manner, total estimated aggregate payments to IRFs would not be affected as a result of the proposed revisions to the CMGs and the CMG relative weights. However, these proposed revisions may affect the distribution of payments across CMGs. For a provider specific impact analysis of this proposed change, we refer readers to the CMS website at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/IRF-Rules-and-Related-Files.html>.

We invite public comment on the proposed revisions to the CMGs based on analysis of 2 years of data (FYs 2017 and 2018) and the proposed updates to the relative weights and average length

of stay values associated with the revised CMGs beginning with FY 2020, that is, for all discharges beginning on or after October 1, 2019.

IV. Facility-Level Adjustment Factors

Section 1886(j)(3)(A)(v) of the Act confers broad authority upon the Secretary to adjust the per unit payment rate by such factors as the Secretary determines are necessary to properly reflect variations in necessary costs of treatment among rehabilitation facilities. Under this authority, we currently adjust the prospective payment amount associated with a CMG to account for facility-level characteristics such as an IRF's LIP, teaching status, and location in a rural area, if applicable, as described in § 412.624(e).

Based on the substantive changes to the facility-level adjustment factors that were adopted in the FY 2014 IRF PPS final rule (78 FR 47860, 47868 through 47872), in the FY 2015 IRF PPS final rule (79 FR 45872, 45882 through 45883), we froze the facility-level adjustment factors at the FY 2014 levels for FY 2015 and all subsequent years (unless and until we propose to update them again through future notice-and-comment rulemaking). For FY 2020, we will continue to hold the adjustment factors at the FY 2014 levels as we continue to monitor the most current IRF claims data available and continue to evaluate and monitor the effects of the FY 2014 changes.

V. Proposed FY 2020 IRF PPS Payment Update

A. Background

Section 1886(j)(3)(C) of the Act requires the Secretary to establish an increase factor that reflects changes over time in the prices of an appropriate mix of goods and services included in the covered IRF services. According to section 1886(j)(3)(A)(i) of the Act, the increase factor shall be used to update the IRF prospective payment rates for each FY. Section 1886(j)(3)(C)(ii)(I) of the Act requires the application of a productivity adjustment. Thus, we propose to update the IRF PPS payments for FY 2020 by a market basket increase factor as required by section 1886(j)(3)(C) of the Act based upon the most current data available, with a productivity adjustment as required by section 1886(j)(3)(C)(ii)(I) of the Act.

We have utilized various market baskets through the years in the IRF PPS. For a discussion of these market baskets, we refer readers to the FY 2016 IRF PPS final rule (80 FR 47046).

Beginning with FY 2016, we finalized the use of a 2012-based IRF market basket, using Medicare cost report data for both freestanding and hospital-based IRFs (80 FR 47049 through 47068). Beginning with FY 2020, we are proposing to rebase and revise the IRF market basket to reflect a 2016 base year. In the following discussion, we provide an overview of the proposed market basket and describe the methodologies used to determine the operating and capital portions of the proposed 2016-based IRF market basket.

B. Overview of the Proposed 2016-Based IRF Market Basket

The proposed 2016-based IRF market basket is a fixed-weight, Laspeyres-type price index. A Laspeyres price index measures the change in price, over time,

of the same mix of goods and services purchased in the base period. Any changes in the quantity or mix of goods and services (that is, intensity) purchased over time relative to a base period are not measured.

The index itself is constructed in three steps. First, a base period is selected (in this proposed rule, the base period is 2016), total base period costs are estimated for a set of mutually exclusive and exhaustive cost categories, and each category is calculated as a proportion of total costs. These proportions are called cost weights. Second, each cost category is matched to an appropriate price or wage variable, referred to as a price proxy. In nearly every instance where we have selected price proxies for the various market baskets, these price proxies are derived from publicly available statistical series that are published on a consistent schedule (preferably at least on a quarterly basis). In cases where a publicly available price series is not available (for example, a price index for malpractice insurance), we have collected price data from other sources and subsequently developed our own index to capture changes in prices for these types of costs. Finally, the cost weight for each cost category is multiplied by the established price proxy. The sum of these products (that is, the cost weights multiplied by their price levels) for all cost categories yields the composite index level of the market basket for the given time period. Repeating this step for other periods produces a series of market basket levels over time. Dividing the composite index level of one period by the composite index level for an earlier period produces a rate of growth in the input price index over that timeframe.

As previously noted, the market basket is described as a fixed-weight index because it represents the change in price over time of a constant mix (quantity and intensity) of goods and services needed to furnish IRF services. The effects on total costs resulting from changes in the mix of goods and services purchased after the base period are not measured. For example, an IRF hiring more nurses after the base period to accommodate the needs of patients would increase the volume of goods and services purchased by the IRF, but would not be factored into the price change measured by a fixed-weight IRF market basket. Only when the index is rebased would changes in the quantity and intensity be captured, with those changes being reflected in the cost weights. Therefore, we rebase the market basket periodically so that the cost weights reflect recent changes in

the mix of goods and services that IRFs purchase (hospital inputs) to furnish inpatient care between base periods.

C. Proposed Rebasing and Revising of the IRF PPS Market Basket

As discussed in the FY 2016 IRF PPS final rule (80 FR 47050), the 2012-based IRF market basket reflects the Medicare cost reports for both freestanding and hospital-based facilities.

Beginning with FY 2020, we are proposing to rebase and revise the 2012-based IRF market basket to a 2016 base year reflecting both freestanding and hospital-based IRFs. Below we provide a detailed description of our methodology used to develop the proposed 2016-based IRF market basket. This proposed methodology is generally similar to the methodology used to develop the 2012-based IRF market basket with the exception of the proposed derivation of the Home Office Contract Labor cost weight using the Medicare cost report data as described in section V.C.a.(6) of this proposed rule.

1. Development of Cost Categories and Weights for the Proposed 2016-Based IRF Market Basket

a. Use of Medicare Cost Report Data

We are proposing a 2016-based IRF market basket that consists of seven major cost categories and a residual derived from the 2016 Medicare cost reports (CMS Form 2552–10) for freestanding and hospital-based IRFs. The seven cost categories are Wages and Salaries, Employee Benefits, Contract Labor, Pharmaceuticals, Professional Liability Insurance (PLI), Home Office Contract Labor, and Capital. The residual category reflects all remaining costs not captured in the seven cost categories. The 2016 cost reports include providers whose cost reporting period began on or after October 1, 2015, and prior to September 30, 2016. We selected 2016 as the base year because we believe that the Medicare cost reports for this year represent the most recent, complete set of Medicare cost report data available for developing the proposed IRF market basket at this time.

Since our goal is to establish cost weights that were reflective of case mix and practice patterns associated with the services IRFs provide to Medicare beneficiaries, as we did for the 2012-based IRF market basket, we are proposing to limit the cost reports used to establish the 2016-based IRF market basket to those from facilities that had a Medicare average length of stay (LOS) that was relatively similar to their

facility average LOS. We believe that this requirement eliminates statistical outliers and ensures a more accurate market basket that reflects the costs generally incurred during a Medicare-covered stay. The Medicare average LOS for freestanding IRFs is calculated from data reported on line 14 of Worksheet S-3, part I. The Medicare average LOS for hospital-based IRFs is calculated from data reported on line 17 of Worksheet S-3, part I. We propose to include the cost report data from IRFs with a Medicare average LOS within 15 percent (that is, 15 percent higher or lower) of the facility average LOS to establish the sample of providers used to estimate the 2016-based IRF market basket cost weights. We are proposing to apply this LOS edit to the data for IRFs to exclude providers that serve a population whose LOS would indicate that the patients served are not consistent with a LOS of a typical Medicare patient. We note that this is the same LOS edit that we applied to develop the 2012-based IRF market basket. This process resulted in the exclusion of about eight percent of the freestanding and hospital-based IRF Medicare cost reports. Of those excluded, about 18 percent were freestanding IRFs and 82 percent were hospital-based IRFs. This ratio is relatively consistent with the ratio of the universe of freestanding to hospital-based IRF providers.

We then used the cost reports for IRFs that met this requirement to calculate the costs for the seven major cost categories (Wages and Salaries, Employee Benefits, Contract Labor, Professional Liability Insurance, Pharmaceuticals, Home Office Contract Labor, and Capital) for the market basket. For comparison, the 2012-based IRF market basket utilized the Bureau of Economic Analysis Benchmark Input-Output data rather than Medicare cost report data to derive the Home Office Contract Labor cost weight. A more detailed discussion of this methodological change is provided in section V.C.1.a.(6) of this proposed rule.

Similar to the 2012-based IRF market basket major cost weights, the proposed 2016-based IRF market basket cost weights reflect Medicare allowable costs (routine, ancillary and capital)—costs that are eligible for reimbursement through the IRF PPS. We propose to define Medicare allowable costs for freestanding facilities as the following lines on Worksheet A and Worksheet, part I (CMS Form 2552-10): 30 through 35, 50 through 76 (excluding 52 and 75), 90 through 91 and 93. We propose to define Medicare allowable costs for

hospital-based facilities as the following lines on Worksheet A and Worksheet B, part I (CMS Form 2552-10): 41, 50 through 76 (excluding 52 and 75), 90 through 91, and 93.

For freestanding IRFs, total Medicare allowable costs would be equal to the total costs as reported on Worksheet B, part I, column 26 for the lines listed above. For hospital-based IRFs, total Medicare allowable costs would be equal to total costs for the IRF inpatient unit after the allocation of overhead costs (Worksheet B, part I, column 26, line 41) and a proportion of total ancillary costs. We propose to calculate the portion of ancillary costs attributable to the hospital-based IRF for a given ancillary cost center by multiplying total facility ancillary costs for the specific cost center (as reported on Worksheet B, part I, column 26) by the ratio of IRF Medicare ancillary costs for the cost center (as reported on Worksheet D-3, column 3 for hospital-based IRFs) to total Medicare ancillary costs for the cost center (equal to the sum of Worksheet D-3, column 3 for all relevant PPS [that is, IPPS, IRF, IPF and skilled nursing facility (SNF)]). We propose to use these methods to derive levels of total costs for IRF providers. This is the same methodology used for the 2012-based IRF market basket. With this work complete, we then set about deriving cost levels for the seven major cost categories and then derive a residual cost weight reflecting all other costs not classified.

(1) Wages and Salaries Costs

For freestanding IRFs, we are proposing to derive Wages and Salaries costs as the sum of routine inpatient salaries, ancillary salaries, and a proportion of overhead (or general service cost centers in the Medicare cost reports) salaries as reported on Worksheet A, column 1. Since overhead salary costs are attributable to the entire IRF, we only include the proportion attributable to the Medicare allowable cost centers. We are proposing to estimate the proportion of overhead salaries that are attributed to Medicare allowable costs centers by multiplying the ratio of Medicare allowable area salaries (Worksheet A, column 1, lines 50 through 76 (excluding 52 and 75), 90 through 91, and 93) to total salaries (Worksheet A, column 1, line 200) times total overhead salaries (Worksheet A, column 1, lines 4 through 18). This is the same methodology used in the 2012-based IRF market basket.

For hospital-based IRFs, we are proposing to derive Wages and Salaries costs as the sum of inpatient routine salary costs (Worksheet A, column 1,

line 41) for the hospital-based IRF and the overhead salary costs attributable to this IRF inpatient unit; and ancillary salaries plus a portion of overhead salary costs attributable to the ancillary departments utilized by the hospital-based IRF.

We are proposing to calculate hospital-based ancillary salary costs for a specific cost center (Worksheet A, column 1, lines 50 through 76 (excluding 52 and 75), 90 through 91, and 93) using salary costs from Worksheet A, column 1, multiplied by the ratio of IRF Medicare ancillary costs for the cost center (as reported on Worksheet D-3, column 3, for IRF subproviders) to total Medicare ancillary costs for the cost center (equal to the sum of Worksheet D-3, column 3, for all relevant PPS units [that is, IPPS, IRF, IPF and a SNF]). For example, if hospital-based IRF Medicare physical therapy costs represent 30 percent of the total Medicare physical therapy costs for the entire facility, then 30 percent of total facility physical therapy salaries (as reported in Worksheet A, column 1, line 66) would be attributable to the hospital-based IRF. We believe it is appropriate to use only a portion of the ancillary costs in the market basket cost weight calculations since the hospital-based IRF only utilizes a portion of the facility's ancillary services. We believe the ratio of reported IRF Medicare costs to reported total Medicare costs provides a reasonable estimate of the ancillary services utilized, and costs incurred, by the hospital-based IRF.

We are proposing to calculate the portion of overhead salary costs attributable to hospital-based IRFs by first calculating total noncapital overhead costs (Worksheet B, part I, columns 4-18, line 41, less Worksheet B, part II, columns 4-18, line 41). We then multiply total noncapital overhead costs by an overhead ratio equal to the ratio of total facility overhead salaries (as reported on Worksheet A, column 1, lines 4-18) to total facility noncapital overhead costs (as reported on Worksheet A, column 1 and 2, lines 4-18). This methodology assumes the proportion of total costs related to salaries for the overhead cost center is similar for all inpatient units (that is, acute inpatient or inpatient rehabilitation).

We are proposing to calculate the portion of overhead salaries attributable to each ancillary department by first calculating total noncapital overhead costs attributable to each specific ancillary department (Worksheet B, part I, columns 4-18 less, Worksheet B, part II, columns 4-18). We then identify the portion of these noncapital overhead

costs attributable to Wages and Salaries by multiplying these costs by the overhead ratio defined as the ratio of total facility overhead salaries (as reported on Worksheet A, column 1, lines 4–18) to total overhead costs (as reported on Worksheet A, column 1 & 2, lines 4–18). Finally, we identified the portion of these overhead salaries for each ancillary department that is attributable to the hospital-based IRF by multiplying by the ratio of IRF Medicare ancillary costs for the cost center (as reported on Worksheet D–3, column 3, for hospital-based IRFs) to total Medicare ancillary costs for the cost center (equal to the sum of Worksheet D–3, column 3, for all relevant PPS units [that is, IPPS, IRF, IPF and SNF]). This is the same methodology used to derive the 2012-based IRF market basket.

(2) Employee Benefits Costs

Effective with the implementation of CMS Form 2552–10, we began collecting Employee Benefits and Contract Labor data on Worksheet S–3, part V.

For 2016 Medicare cost report data, the majority of providers did not report data on Worksheet S–3, part V; particularly, approximately 48 percent of freestanding IRFs and 40 percent of hospital-based IRFs reported data on Worksheet S–3, part V. However, we believe we have a large enough sample to enable us to produce a reasonable Employee Benefits cost weight. Again, we continue to encourage all providers to report these data on the Medicare cost report.

For freestanding IRFs, we are proposing Employee Benefits costs would be equal to the data reported on Worksheet S–3, part V, column 2, line 2. We note that while not required to do so, freestanding IRFs also may report Employee Benefits data on Worksheet S–3, part II, which is applicable to only IPPS providers. For those freestanding IRFs that report Worksheet S–3, part II, data, but not Worksheet S–3, part V, we are proposing to use the sum of Worksheet S–3, part II, lines 17, 18, 20, and 22, to derive Employee Benefits costs. This proposed method would allow us to obtain data from about 30 more freestanding IRFs than if we were to only use the Worksheet S–3, part V, data as was done for the 2012-based IRF market basket.

For hospital-based IRFs, we are proposing to calculate total benefit costs as the sum of inpatient unit benefit costs, a portion of ancillary benefits, and a portion of overhead benefits attributable to the routine inpatient unit and a portion of overhead benefits

attributable to the ancillary departments. We are proposing inpatient unit benefit costs be equal to Worksheet S–3, part V, column 2, line 4. We are proposing that the portion of overhead benefits attributable to the routine inpatient unit and ancillary departments be calculated by multiplying ancillary salaries for the hospital-based IRF and overhead salaries attributable to the hospital-based IRF (determined in the derivation of hospital-based IRF Wages and Salaries costs as described above) by the ratio of total facility benefits to total facility salaries. Total facility benefits is equal to the sum of Worksheet S–3, part II, column 4, lines 17–25, and total facility salaries is equal to Worksheet S–3, part II, column 4, line 1.

(3) Contract Labor Costs

Contract Labor costs are primarily associated with direct patient care services. Contract labor costs for other services such as accounting, billing, and legal are calculated separately using other government data sources as described in section V.C.3. of this proposed rule. To derive contract labor costs using Worksheet S–3, part V, data, for freestanding IRFs, we are proposing Contract Labor costs be equal to Worksheet S–3, part V, column 1, line 2. As we noted for Employee Benefits, freestanding IRFs also may report Contract Labor data on Worksheet S–3, part II, which is applicable to only IPPS providers. For those freestanding IRFs that report Worksheet S–3, part II data, but not Worksheet S–3, part V, we are proposing to use the sum of Worksheet S–3, part II, lines 11 and 13, to derive Contract Labor costs.

For hospital-based IRFs, we are proposing that Contract Labor costs would be equal to Worksheet S–3, part V, column 1, line 4. As previously noted, for 2016 Medicare cost report data, while there were providers that did report data on Worksheet S–3, part V, many providers did not complete this worksheet. However, we believe we have a large enough sample to enable us to produce a reasonable Contract Labor cost weight. We continue to encourage all providers to report these data on the Medicare cost report.

(4) Pharmaceuticals Costs

For freestanding IRFs, we are proposing to calculate pharmaceuticals costs using non-salary costs reported on Worksheet A, column 7, less Worksheet A, column 1, for the pharmacy cost center (line 15) and drugs charged to patients cost center (line 73).

For hospital-based IRFs, we are proposing to calculate pharmaceuticals

costs as the sum of a portion of the non-salary pharmacy costs and a portion of the non-salary drugs charged to patient costs reported for the total facility. We propose that non-salary pharmacy costs attributable to the hospital-based IRF would be calculated by multiplying total pharmacy costs attributable to the hospital-based IRF (as reported on Worksheet B, part I, column 15, line 41) by the ratio of total non-salary pharmacy costs (Worksheet A, column 2, line 15) to total pharmacy costs (sum of Worksheet A, columns 1 and 2 for line 15) for the total facility. We propose that non-salary drugs charged to patient costs attributable to the hospital-based IRF would be calculated by multiplying total non-salary drugs charged to patient costs (Worksheet B, part I, column 0, line 73 plus Worksheet B, part I, column 15, line 73, less Worksheet A, column 1, line 73) for the total facility by the ratio of Medicare drugs charged to patient ancillary costs for the IRF unit (as reported on Worksheet D–3 for hospital-based IRFs, column 3, line 73) to total Medicare drugs charged to patient ancillary costs for the total facility (equal to the sum of Worksheet D–3, column 3, line 73 for all relevant PPS [that is, IPPS, IRF, IPF and SNF]).

(5) Professional Liability Insurance Costs

For freestanding IRFs, we are proposing that Professional Liability Insurance (PLI) costs (often referred to as malpractice costs) would be equal to premiums, paid losses and self-insurance costs reported on Worksheet S–2, columns 1 through 3, line 118. For hospital-based IRFs, we are proposing to assume that the PLI weight for the total facility is similar to the hospital-based IRF unit since the only data reported on this worksheet is for the entire facility, as we currently have no means to identify the proportion of total PLI costs that are only attributable to the hospital-based IRF. Therefore, hospital-based IRF PLI costs are equal to total facility PLI (as reported on Worksheet S–2, columns 1 through 3, line 118) divided by total facility costs (as reported on Worksheet A, columns 1 and 2, line 200) times hospital-based IRF Medicare allowable total costs. Our assumption is that the same proportion of expenses are used among each unit of the hospital. We welcome comments on this proposed method of deriving the PLI costs for hospital-based IRFs.

(6) Home Office/Related Organization Contract Labor Costs

For the 2016-based IRF market basket, we are proposing to determine the home office/related organization contract

labor costs using Medicare cost report data. The 2012-based IRF market basket used the 2007 Benchmark Input-Output (I-O) expense data published by the Bureau of Economic Analysis (BEA) to derive these costs (80 FR 47057). A more detailed explanation of the general methodology using the BEA I-O data is provided in section V.C.3. of this proposed rule. For freestanding and hospital-based IRFs, we are proposing to calculate the home office contract labor cost weight (using data reported on Worksheet S-3, part II, column 4, lines 14, 1401, 1402, 2550, and 2551) and total facility costs (Worksheet B, part 1, column 26, line 202). We are proposing to use total facility costs as the denominator for calculating the home office contract labor cost weight as these expenses reported on Worksheet S-3, part II reflect the entire hospital facility. Our assumption is that the same proportion of expenses are used among each unit of the hospital. For the 2012-based IRF market basket, we calculated the home office cost weight using expense data for North American Industry Classification System (NAICS) code 55, Management of Companies and Enterprises (80 FR 47067).

(7) Capital Costs

For freestanding IRFs, we are proposing that capital costs would be equal to Medicare allowable capital costs as reported on Worksheet B, part II, column 26, lines 30 through 35, 50 through 76 (excluding 52 and 75), 90 through 91, and 93.

For hospital-based IRFs, we are proposing that capital costs would be equal to IRF inpatient capital costs (as reported on Worksheet B, part II, column 26, line 41) and a portion of IRF ancillary capital costs. We calculate the portion of ancillary capital costs attributable to the hospital-based IRF for a given cost center by multiplying total

facility ancillary capital costs for the specific ancillary cost center (as reported on Worksheet B, part II, column 26) by the ratio of IRF Medicare ancillary costs for the cost center (as reported on Worksheet D-3, column 3 for hospital-based IRFs) to total Medicare ancillary costs for the cost center (equal to the sum of Worksheet D-3, column 3 for all relevant PPS [that is, IPPS, IRF, IPF and SNF]). For example, if hospital-based IRF Medicare physical therapy costs represent 30 percent of the total Medicare physical therapy costs for the entire facility, then 30 percent of total facility physical therapy capital costs (as reported in Worksheet B, part II, column 26, line 66) would be attributable to the hospital-based IRF.

b. Final Major Cost Category Computation

After we derive costs for the major cost categories for each provider using the Medicare cost report data as previously described, we propose to trim the data for outliers. For the Wages and Salaries, Employee Benefits, Contract Labor, Pharmaceuticals, Professional Liability Insurance, and Capital cost weights, we first divide the costs for each of these six categories by total Medicare allowable costs calculated for the provider to obtain cost weights for the universe of IRF providers. We then remove those providers whose derived cost weights fall in the top and bottom 5 percent of provider specific derived cost weights to ensure the exclusion of outliers. After the outliers have been excluded, we sum the costs for each category across all remaining providers. We then divide this by the sum of total Medicare allowable costs across all remaining providers to obtain a cost weight for the proposed 2016-based IRF market basket for the given category.

The proposed trimming methodology for the Home Office Contract Labor cost weight is slightly different than the proposed trimming methodology for the other six cost categories as described above. For the Home Office Contract Labor cost weight, since we are using total facility data rather than Medicare-allowable costs associated with IRF services, we are proposing to trim the freestanding and hospital-based IRF cost weights separately. For each of the providers, we first divide the home office contract labor costs by total facility costs to obtain a Home Office Contract Labor cost weight for the universe of IRF providers. We are then proposing to trim only the top 1 percent of providers to exclude outliers while also allowing providers who have reported zero home office costs to remain in the Home Office Contract Labor cost weight calculations as not all providers will incur home office costs. After removing these outliers, we are left with a trimmed data set for both freestanding and hospital-based providers. We are then proposing to sum the costs for each category (freestanding and hospital-based) across all remaining providers. We next divide this by the sum of total facility costs across all remaining providers to obtain a freestanding and hospital-based cost weight. Lastly, we are proposing to weight these two cost weights together using the Medicare-allowable costs to derive a Home Office Contract Labor cost weight for the proposed 2016-based IRF market basket.

Finally, we calculate the residual “All Other” cost weight that reflects all remaining costs that are not captured in the seven cost categories listed. See Table 5 for the resulting cost weights for these major cost categories that we obtain from the Medicare cost reports.

TABLE 5—MAJOR COST CATEGORIES AS DERIVED FROM MEDICARE COST REPORTS

Major cost categories	Proposed 2016-based IRF market basket (percent)	2012-based IRF market basket (percent)
Wages and Salaries	47.1	47.3
Employee Benefits	11.3	11.2
Contract Labor	1.0	0.8
Professional Liability Insurance (Malpractice)	0.7	0.9
Pharmaceuticals	5.1	5.1
Home Office Contract Labor	3.7	n/a
Capital	9.0	8.6
All Other	22.2	26.1

* Total may not sum to 100 due to rounding.

As we did for the 2012-based IRF market basket, we are proposing to

allocate the Contract Labor cost weight to the Wages and Salaries and Employee

Benefits cost weights based on their relative proportions under the

assumption that contract labor costs are comprised of both wages and salaries and employee benefits. The Contract Labor allocation proportion for Wages and Salaries is equal to the Wages and Salaries cost weight as a percent of the sum of the Wages and Salaries cost weight and the Employee Benefits cost

weight. For this proposed rule, this rounded percentage is 81 percent; therefore, we are proposing to allocate 81 percent of the Contract Labor cost weight to the Wages and Salaries cost weight and 19 percent to the Employee Benefits cost weight. The 2012-based IRF market basket percentage was also

81 percent (80 FR 47056). Table 6 shows the Wages and Salaries and Employee Benefit cost weights after Contract Labor cost weight allocation for both the proposed 2016-based IRF market basket and 2012-based IRF market basket.

TABLE 6—WAGES AND SALARIES AND EMPLOYEE BENEFITS COST WEIGHTS AFTER CONTRACT LABOR ALLOCATION

Major cost categories	Proposed 2016-based IRF market basket	2012-based IRF market basket
Wages and Salaries	47.9	47.9
Employee Benefits	11.4	11.3

c. Derivation of the Detailed Operating Cost Weights

To further divide the “All Other” residual cost weight estimated from the 2016 Medicare cost report data into more detailed cost categories, we propose to use the 2012 Benchmark Input-Output (I-O) “Use Tables/Before Redefinitions/Purchaser Value” for NAICS 622000, Hospitals, published by the Bureau of Economic Analysis (BEA). This data is publicly available at http://www.bea.gov/industry/io_annual.htm. For the 2012-based IRF market basket, we used the 2007 Benchmark I-O data, the most recent data available at the time (80 FR 47057).

The BEA Benchmark I-O data are scheduled for publication every 5 years with the most recent data available for 2012. The 2007 Benchmark I-O data are derived from the 2012 Economic Census and are the building blocks for BEA’s economic accounts. Thus, they represent the most comprehensive and complete set of data on the economic processes or mechanisms by which output is produced and distributed.¹ BEA also produces Annual I-O estimates; however, while based on a similar methodology, these estimates reflect less comprehensive and less detailed data sources and are subject to revision when benchmark data becomes available. Instead of using the less detailed Annual I-O data, we propose to inflate the 2012 Benchmark I-O data forward to 2016 by applying the annual price changes from the respective price proxies to the appropriate market basket cost categories that are obtained from the 2012 Benchmark I-O data. We repeat this practice for each year. We then propose to calculate the cost shares that each cost category represents of the inflated 2012 data. These resulting 2016 cost shares are applied to the All Other

residual cost weight to obtain the proposed detailed cost weights for the 2016-based IRF market basket. For example, the cost for Food: Direct Purchases represents 5.0 percent of the sum of the “All Other” 2012 Benchmark I-O Hospital Expenditures inflated to 2016; therefore, the Food: Direct Purchases cost weight represents 5.0 percent of the 2016-based IRF market basket’s “All Other” cost category (22.2 percent), yielding a “final” Food: Direct Purchases cost weight of 1.1 percent in the proposed 2016-based IRF market basket ($0.05 \times 22.2 \text{ percent} = 1.1 \text{ percent}$).

Using this methodology, we propose to derive seventeen detailed IRF market basket cost category weights from the proposed 2016-based IRF market basket residual cost weight (22.2 percent). These categories are: (1) Electricity, (2) Fuel, Oil, and Gasoline (3) Food: Direct Purchases, (4) Food: Contract Services, (5) Chemicals, (6) Medical Instruments, (7) Rubber & Plastics, (8) Paper and Printing Products, (9) Miscellaneous Products, (10) Professional Fees: Labor-related, (11) Administrative and Facilities Support Services, (12) Installation, Maintenance, and Repair, (13) All Other Labor-related Services, (14) Professional Fees: Nonlabor-related, (15) Financial Services, (16) Telephone Services, and (17) All Other Nonlabor-related Services. We note that for the 2012-based IRF market basket, we had a Water and Sewerage cost weight. For the proposed 2016-based IRF market basket, we are proposing to include Water and Sewerage costs in the Electricity cost weight due to the small amount of costs in this category.

For the 2012-based IRF market basket, we used the I-O data for NAICS 55 Management of Companies to derive the Home Office Contract Labor cost weight, which were classified in the Professional Fees: Labor-related and Professional Fees: Nonlabor-related cost

weights. As previously discussed, we are proposing to use the Medicare cost report data to derive the Home Office Contract Labor cost weight, which we would further classify into the Professional Fees: Labor-related or Professional Fees: Nonlabor-related categories.

d. Derivation of the Detailed Capital Cost Weights

As described in section V.C.1.a.(6) of this proposed rule, we are proposing a Capital-Related cost weight of 9.0 percent as obtained from the 2016 Medicare cost reports for freestanding and hospital-based IRF providers. We are proposing to then separate this total Capital-Related cost weight into more detailed cost categories.

Using 2016 Medicare cost reports, we are able to group Capital-Related costs into the following categories: Depreciation, Interest, Lease, and Other Capital-Related costs. For each of these categories, we are proposing to determine separately for hospital-based IRFs and freestanding IRFs what proportion of total capital-related costs the category represents.

For freestanding IRFs, we are proposing to derive the proportions for Depreciation, Interest, Lease, and Other Capital-related costs using the data reported by the IRF on Worksheet A-7, which is similar to the methodology used for the 2012-based IRF market basket.

For hospital-based IRFs, data for these four categories are not reported separately for the hospital-based IRF; therefore, we are proposing to derive these proportions using data reported on Worksheet A-7 for the total facility. We are assuming the cost shares for the overall hospital are representative for the hospital-based IRF unit. For example, if depreciation costs make up 60 percent of total capital costs for the entire facility, we believe it is

¹ http://www.bea.gov/papers/pdf/IOmanual_092906.pdf.

reasonable to assume that the hospital-based IRF would also have a 60 percent proportion because it is a unit contained within the total facility. This is the same methodology used for the 2012-based IRF market basket (80 FR 47057).

To combine each detailed capital cost weight for freestanding and hospital-based IRFs into a single capital cost weight for the proposed 2016-based IRF market basket, we are proposing to weight together the shares for each of the categories (Depreciation, Interest, Lease, and Other Capital-related costs) based on the share of total capital costs each provider type represents of the total capital costs for all IRFs for 2016. Applying this methodology results in proportions of total capital-related costs for Depreciation, Interest, Lease and Other Capital-related costs that are representative of the universe of IRF providers. This is the same methodology used for the 2012-based IRF market basket (80 FR 47057 through 47058).

Lease costs are unique in that they are not broken out as a separate cost category in the proposed 2016-based IRF market basket. Rather, we are proposing to proportionally distribute these costs among the cost categories of Depreciation, Interest, and Other Capital-Related, reflecting the assumption that the underlying cost structure of leases is similar to that of capital-related costs in general. As was done under the 2012-based IRF market basket, we are proposing to assume that 10 percent of the lease costs as a proportion of total capital-related costs represents overhead and assign those costs to the Other Capital-Related cost category accordingly. We propose to distribute the remaining lease costs proportionally across the three cost categories (Depreciation, Interest, and Other Capital-Related) based on the proportion that these categories comprise of the sum of the Depreciation,

Interest, and Other Capital-related cost categories (excluding lease expenses). This would result in three primary capital-related cost categories in the proposed 2016-based IRF market basket: Depreciation, Interest, and Other Capital-Related costs. This is the same methodology used for the 2012-based IRF market basket (80 FR 47058). The allocation of these lease expenses are shown in Table 6.

Finally, we are proposing to further divide the Depreciation and Interest cost categories. We are proposing to separate Depreciation into the following two categories: (1) Building and Fixed Equipment and (2) Movable Equipment. We are proposing to separate Interest into the following two categories: (1) Government/Nonprofit and (2) For-profit.

To disaggregate the Depreciation cost weight, we need to determine the percent of total Depreciation costs for IRFs that is attributable to Building and Fixed Equipment, which we hereafter refer to as the “fixed percentage.” For the proposed 2016-based IRF market basket, we are proposing to use slightly different methods to obtain the fixed percentages for hospital-based IRFs compared to freestanding IRFs.

For freestanding IRFs, we are proposing to use depreciation data from Worksheet A–7 of the 2016 Medicare cost reports. However, for hospital-based IRFs, we determined that the fixed percentage for the entire facility may not be representative of the hospital-based IRF unit due to the entire facility likely employing more sophisticated movable assets that are not utilized by the hospital-based IRF. Therefore, for hospital-based IRFs, we are proposing to calculate a fixed percentage using: (1) Building and fixture capital costs allocated to the hospital-based IRF unit as reported on Worksheet B, part I, line 41, and (2) building and fixture capital costs for the

top five ancillary cost centers utilized by hospital-based IRFs. We propose to weight these two fixed percentages (inpatient and ancillary) using the proportion that each capital cost type represents of total capital costs in the proposed 2016-based IRF market basket. We are proposing to then weight the fixed percentages for hospital-based and freestanding IRFs together using the proportion of total capital costs each provider type represents. For both freestanding and hospital-based IRFs, this is the same methodology used for the 2012-based IRF market basket (80 FR 47058).

To disaggregate the Interest cost weight, we determined the percent of total interest costs for IRFs that are attributable to government and nonprofit facilities, which is hereafter referred to as the “nonprofit percentage,” as price pressures associated with these types of interest costs tend to differ from those for for-profit facilities. For the 2016-based IRF market basket, we are proposing to use interest costs data from Worksheet A–7 of the 2016 Medicare cost reports for both freestanding and hospital-based IRFs. We are proposing to determine the percent of total interest costs that are attributed to government and nonprofit IRFs separately for hospital-based and freestanding IRFs. We then are proposing to weight the nonprofit percentages for hospital-based and freestanding IRFs together using the proportion of total capital costs that each provider type represents.

Table 7 provides the proposed detailed capital cost share composition estimated from the 2016 IRF Medicare cost reports. These detailed capital cost share composition percentages are applied to the total Capital-Related cost weight of 9.0 percent explained in detail in section V.C.1.a.(6) of this proposed rule.

TABLE 7—CAPITAL COST SHARE COMPOSITION FOR THE PROPOSED 2016-BASED IRF MARKET BASKET

	Capital cost share composition before lease expense allocation (%)	Capital cost share composition after lease expense allocation (%)
Depreciation	59	73
Building and Fixed Equipment	37	45
Movable Equipment	22	28
Interest	13	16
Government/Nonprofit	8	9
For Profit	5	7
Lease	21	
Other	7	11

* Detail may not add to total due to rounding.

e. Proposed 2016-Based IRF Market Basket Cost Categories and Weights

based IRF market basket compared to the 2012-based IRF market basket.

Table 8 compares the cost categories and weights for the proposed 2016-

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TABLE 8: Proposed 2016-based IRF Market Basket Cost Weights Compared to 2012-based IRF Market Basket Cost Weights

Cost Category	Proposed 2016-based IRF Market Basket Cost Weight	2012-based IRF Market Basket Cost Weight
Total	100.0	100.0
Compensation	59.4	59.2
Wages and Salaries	47.9	47.9
Employee Benefits	11.4	11.3
Utilities	1.4	2.1
Electricity	1.0	1.0
Fuel, Oil, and Gasoline	0.4	1.1
Water & Sewerage	n/a	0.1
Professional Liability Insurance	0.7	0.9
All Other Products and Services	29.5	29.1
All Other Products	12.5	13.3
Pharmaceuticals	5.1	5.1
Food: Direct Purchases	1.1	1.7
Food: Contract Services	1.2	1.0
Chemicals	0.4	0.7
Medical Instruments	2.9	2.3
Rubber & Plastics	0.4	0.6
Paper and Printing Products	0.6	1.1
Miscellaneous Products	0.8	0.8
All Other Services	17.0	15.8
Labor-Related Services	9.2	8.0
Professional Fees: Labor-related	5.0	3.5
Administrative and Facilities Support Services	0.7	0.8
Installation, Maintenance, and Repair	1.6	1.9
All Other: Labor-related Services	1.8	1.8
Nonlabor-Related Services	7.9	7.8
Professional Fees: Nonlabor-related	5.4	3.1
Financial services	0.9	2.7
Telephone Services	0.3	0.7
All Other: Nonlabor-related Services	1.3	1.3
Capital-Related Costs	9.0	8.6
Depreciation	6.5	6.4
Fixed Assets	4.1	4.1
Movable Equipment	2.5	2.3
Interest Costs	1.5	1.4
Government/Nonprofit	0.9	0.9
For Profit	0.6	0.5
Other Capital-Related Costs	1.0	0.8

*Detail may not add to total due to rounding.

2. Selection of Price Proxies

After developing the cost weights for the proposed 2016-based IRF market basket, we select the most appropriate wage and price proxies currently available to represent the rate of price change for each expenditure category. For the majority of the cost weights, we base the price proxies on U.S. Bureau of Labor Statistics (BLS) data and group them into one of the following BLS categories:

- *Employment Cost Indexes.* Employment Cost Indexes (ECIs) measure the rate of change in employment wage rates and employer costs for employee benefits per hour worked. These indexes are fixed-weight indexes and strictly measure the change in wage rates and employee benefits per hour. ECIs are superior to Average Hourly Earnings (AHE) as price proxies for input price indexes because they are not affected by shifts in occupation or industry mix, and because they measure pure price change and are available by both occupational group and by industry. The industry ECIs are based on the NAICS and the occupational ECIs are based on the Standard Occupational Classification System (SOC).

- *Producer Price Indexes.* Producer Price Indexes (PPIs) measure the average change over time in the selling prices received by domestic producers for their output. The prices included in the PPI are from the first commercial transaction for many products and some services (<https://www.bls.gov/ppi/>).

- *Consumer Price Indexes.* Consumer Price Indexes (CPIs) measure the average change over time in the prices paid by urban consumers for a market basket of consumer goods and services (<https://www.bls.gov/cpi/>). CPIs are only used when the purchases are similar to those of retail consumers rather than purchases at the producer level, or if no appropriate PPIs are available.

We evaluate the price proxies using the criteria of reliability, timeliness, availability, and relevance:

- *Reliability.* Reliability indicates that the index is based on valid statistical methods and has low sampling variability. Widely accepted statistical methods ensure that the data were collected and aggregated in a way that can be replicated. Low sampling variability is desirable because it indicates that the sample reflects the typical members of the population. (Sampling variability is variation that occurs by chance because only a sample was surveyed rather than the entire population.)

- *Timeliness.* Timeliness implies that the proxy is published regularly,

preferably at least once a quarter. The market baskets are updated quarterly, and therefore, it is important for the underlying price proxies to be up-to-date, reflecting the most recent data available. We believe that using proxies that are published regularly (at least quarterly, whenever possible) helps to ensure that we are using the most recent data available to update the market basket. We strive to use publications that are disseminated frequently, because we believe that this is an optimal way to stay abreast of the most current data available.

- *Availability.* Availability means that the proxy is publicly available. We prefer that our proxies are publicly available because this will help ensure that our market basket updates are as transparent to the public as possible. In addition, this enables the public to be able to obtain the price proxy data on a regular basis.

- *Relevance.* Relevance means that the proxy is applicable and representative of the cost category weight to which it is applied. The CPIs, PPIs, and ECIs that we have selected to propose in this regulation meet these criteria. Therefore, we believe that they continue to be the best measure of price changes for the cost categories to which they would be applied.

Table 11 lists all price proxies that we propose to use for the proposed 2016-based IRF market basket. Below is a detailed explanation of the price proxies we are proposing for each cost category weight.

a. Price Proxies for the Operating Portion of the Proposed 2016-Based IRF Market Basket

(1) Wages and Salaries

We are proposing to continue to use the ECI for Wages and Salaries for All Civilian workers in Hospitals (BLS series code CIU1026220000000I) to measure the wage rate growth of this cost category. This is the same price proxy used in the 2012-based IRF market basket (80 FR 47060).

(2) Benefits

We are proposing to continue to use the ECI for Total Benefits for All Civilian workers in Hospitals to measure price growth of this category. This ECI is calculated using the ECI for Total Compensation for All Civilian workers in Hospitals (BLS series code CIU1016220000000I) and the relative importance of wages and salaries within total compensation. This is the same price proxy used in the 2012-based IRF market basket (80 FR 47060).

(3) Electricity

We are proposing to continue to use the PPI Commodity Index for Commercial Electric Power (BLS series code WPU0542) to measure the price growth of this cost category. This is the same price proxy used in the 2012-based IRF market basket (80 FR 47060).

(4) Fuel, Oil, and Gasoline

Similar to the 2012-based IRF market basket, for the 2016-based IRF market basket, we are proposing to use a blend of the PPI for Petroleum Refineries and the PPI Commodity for Natural Gas. Our analysis of the Bureau of Economic Analysis' 2012 Benchmark Input-Output data (use table before redefinitions, purchaser's value for NAICS 622000 [Hospitals]), shows that Petroleum Refineries expenses account for approximately 90 percent and Natural Gas expenses account for approximately 10 percent of Hospitals' (NAICS 622000) total Fuel, Oil, and Gasoline expenses. Therefore, we propose to use a blend of 90 percent of the PPI for Petroleum Refineries (BLS series code PCU324110324110) and 10 percent of the PPI Commodity Index for Natural Gas (BLS series code WPU0531) as the price proxy for this cost category. The 2012-based IRF market basket used a 70/30 blend of these price proxies, reflecting the 2007 I-O data (80 FR 47060). We believe that these two price proxies continue to be the most technically appropriate indices available to measure the price growth of the Fuel, Oil, and Gasoline cost category in the proposed 2016-based IRF market basket.

(5) Professional Liability Insurance

We are proposing to continue to use the CMS Hospital Professional Liability Index to measure changes in PLI premiums. To generate this index, we collect commercial insurance premiums for a fixed level of coverage while holding non-price factors constant (such as a change in the level of coverage). This is the same proxy used in the 2012-based IRF market basket (80 FR 47060).

(6) Pharmaceuticals

We are proposing to continue to use the PPI for Pharmaceuticals for Human Use, Prescription (BLS series code WPUSI07003) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47060).

(7) Food: Direct Purchases

We are proposing to continue to use the PPI for Processed Foods and Feeds (BLS series code WPU02) to measure the price growth of this cost category. This

is the same proxy used in the 2012-based IRF market basket (80 FR 47060).

(8) Food: Contract Purchases

We are proposing to continue to use the CPI for Food Away From Home (BLS series code CUUR0000SEFV) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47060 through 47061).

(9) Chemicals

Similar to the 2012-based IRF market basket, we are proposing to use a four part blended PPI as the proxy for the chemical cost category in the proposed 2016-based IRF market basket. The proposed blend is composed of the PPI

for Industrial Gas Manufacturing, Primary Products (BLS series code PCU325120325120P), the PPI for Other Basic Inorganic Chemical Manufacturing (BLS series code PCU32518–32518–), the PPI for Other Basic Organic Chemical Manufacturing (BLS series code PCU32519–32519–), and the PPI for Other Miscellaneous Chemical Product Manufacturing (BLS series code PCU325998325998). We note that the four part blended PPI used in the 2012-based IRF market basket is composed of the PPI for Industrial Gas Manufacturing (BLS series code PCU325120325120P), the PPI for Other Basic Inorganic Chemical Manufacturing (BLS series code PCU32518–32518–), the PPI for Other

Basic Organic Chemical Manufacturing (BLS series code PCU32519–32519–), and the PPI for Soap and Cleaning Compound Manufacturing (BLS series code PCU32561–32561–). For the proposed 2016-based IRF market basket, we are proposing to derive the weights for the PPIs using the 2012 Benchmark I–O data. The 2012-based IRF market basket used the 2007 Benchmark I–O data to derive the weights for the four PPIs (80 FR 47061).

Table 9 shows the weights for each of the four PPIs used to create the proposed blended Chemical proxy for the proposed 2016 IRF market basket compared to the 2012-based blended Chemical proxy.

TABLE 9: Blended Chemical PPI Weights

Name	Proposed 2016-based IRF Weights	2012-based IRF Weights	NAICS
PPI for Industrial Gas Manufacturing	19%	32%	325120
PPI for Other Basic Inorganic Chemical Manufacturing	13%	17%	325180
PPI for Other Basic Organic Chemical Manufacturing	60%	45%	325190
PPI for Soap and Cleaning Compound Manufacturing	n/a	6%	325610
PPI for Other Miscellaneous Chemical Product Manufacturing	8%	n/a	325998

(10) Medical Instruments

We are proposing to continue to use a blend of two PPIs for the Medical Instruments cost category. The 2012 Benchmark Input-Output data shows an approximate 57/43 split between Surgical and Medical Instruments and Medical and Surgical Appliances and Supplies for this cost category. Therefore, we propose a blend composed of 57 percent of the commodity-based PPI for Surgical and Medical Instruments (BLS series code WPU1562) and 43 percent of the commodity-based PPI for Medical and Surgical Appliances and Supplies (BLS series code WPU1563). The 2012-based IRF market basket used a 50/50 blend of these PPIs based on the 2007 Benchmark I–O data (80 FR 47061).

(11) Rubber and Plastics

We are proposing to continue to use the PPI for Rubber and Plastic Products (BLS series code WPU07) to measure price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(12) Paper and Printing Products

We are proposing to continue to use the PPI for Converted Paper and Paperboard Products (BLS series code WPU0915) to measure the price growth of this cost category. This is the same

proxy used in the 2012-based IRF market basket (80 FR 47061).

(13) Miscellaneous Products

We are proposing to continue to use the PPI for Finished Goods Less Food and Energy (BLS series code WPUFD4131) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(14) Professional Fees: Labor-Related

We are proposing to continue to use the ECI for Total Compensation for Private Industry workers in Professional and Related (BLS series code CIU2010000120000I) to measure the price growth of this category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(15) Administrative and Facilities Support Services

We are proposing to continue to use the ECI for Total Compensation for Private Industry workers in Office and Administrative Support (BLS series code CIU2010000220000I) to measure the price growth of this category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(16) Installation, Maintenance, and Repair

We are proposing to continue to use the ECI for Total Compensation for Civilian workers in Installation, Maintenance, and Repair (BLS series code CIU1010000430000I) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(17) All Other: Labor-Related Services

We are proposing to continue to use the ECI for Total Compensation for Private Industry workers in Service Occupations (BLS series code CIU2010000300000I) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(18) Professional Fees: Nonlabor-Related

We are proposing to continue to use the ECI for Total Compensation for Private Industry workers in Professional and Related (BLS series code CIU2010000120000I) to measure the price growth of this category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(19) Financial Services

We are proposing to continue to use the ECI for Total Compensation for Private Industry workers in Financial

Activities (BLS series code CIU201520A000000I) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(20) Telephone Services

We are proposing to continue to use the CPI for Telephone Services (BLS series code CUUR0000SEED) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

(21) All Other: Nonlabor-Related Services

We are proposing to continue to use the CPI for All Items Less Food and Energy (BLS series code CUUR0000SA0L1E) to measure the price growth of this cost category. This is the same proxy used in the 2012-based IRF market basket (80 FR 47061).

b. Price Proxies for the Capital Portion of the Proposed 2016-Based IRF Market Basket

(1) Capital Price Proxies Prior to Vintage Weighting

We are proposing to continue to use the same price proxies for the capital-related cost categories in the proposed 2016-based IRF market basket as were used in the 2012-based IRF market basket (80 FR 47062), which are provided in Table 10 and described below. Specifically, we are proposing to proxy:

- Depreciation: Building and Fixed Equipment cost category by BEA's Chained Price Index for Nonresidential Construction for Hospitals and Special Care Facilities (BEA Table 5.4.4. Price Indexes for Private Fixed Investment in Structures by Type).
- Depreciation: Movable Equipment cost category by the PPI for Machinery and Equipment (BLS series code WPU11).
- Nonprofit Interest cost category by the average yield on domestic municipal bonds (Bond Buyer 20-bond index).
- For-profit Interest cost category by the average yield on Moody's Aaa bonds (Federal Reserve).
- Other Capital-Related cost category by the CPI-U for Rent of Primary Residence (BLS series code CUUS0000SEHA).

We believe these are the most appropriate proxies for IRF capital-related costs that meet our selection criteria of relevance, timeliness, availability, and reliability. We are also proposing to continue to vintage weight the capital price proxies for Depreciation and Interest to capture the long-term consumption of capital. This vintage weighting method is similar to

the method used for the 2012-based IRF market basket (80 FR 47062) and is described below.

(2) Vintage Weights for Price Proxies

Because capital is acquired and paid for over time, capital-related expenses in any given year are determined by both past and present purchases of physical and financial capital. The vintage-weighted capital-related portion of the proposed 2016-based IRF market basket is intended to capture the long-term consumption of capital, using vintage weights for depreciation (physical capital) and interest (financial capital). These vintage weights reflect the proportion of capital-related purchases attributable to each year of the expected life of building and fixed equipment, movable equipment, and interest. We are proposing to use vintage weights to compute vintage-weighted price changes associated with depreciation and interest expenses.

Capital-related costs are inherently complicated and are determined by complex capital-related purchasing decisions, over time, based on such factors as interest rates and debt financing. In addition, capital is depreciated over time instead of being consumed in the same period it is purchased. By accounting for the vintage nature of capital, we are able to provide an accurate and stable annual measure of price changes. Annual non-vintage price changes for capital are unstable due to the volatility of interest rate changes, and therefore, do not reflect the actual annual price changes for IRF capital-related costs. The capital-related component of the proposed 2016-based IRF market basket reflects the underlying stability of the capital-related acquisition process.

The methodology used to calculate the vintage weights for the proposed 2016-based IRF market basket is the same as that used for the 2012-based IRF market basket (80 FR 47062 through 47063) with the only difference being the inclusion of more recent data. To calculate the vintage weights for depreciation and interest expenses, we first need a time series of capital-related purchases for building and fixed equipment and movable equipment. We found no single source that provides an appropriate time series of capital-related purchases by hospitals for all of the above components of capital purchases. The early Medicare cost reports did not have sufficient capital-related data to meet this need. Data we obtained from the American Hospital Association (AHA) do not include annual capital-related purchases. However, we are able to obtain data on total expenses back to

1963 from the AHA. Consequently, we are proposing to use data from the AHA Panel Survey and the AHA Annual Survey to obtain a time series of total expenses for hospitals. We are then proposing to use data from the AHA Panel Survey supplemented with the ratio of depreciation to total hospital expenses obtained from the Medicare cost reports to derive a trend of annual depreciation expenses for 1963 through 2016. We propose to separate these depreciation expenses into annual amounts of building and fixed equipment depreciation and movable equipment depreciation as determined earlier. From these annual depreciation amounts, we derive annual end-of-year book values for building and fixed equipment and movable equipment using the expected life for each type of asset category. While data is not available that is specific to IRFs, we believe this information for all hospitals serves as a reasonable alternative for the pattern of depreciation for IRFs.

To continue to calculate the vintage weights for depreciation and interest expenses, we also need to account for the expected lives for Building and Fixed Equipment, Movable Equipment, and Interest for the proposed 2016-based IRF market basket. We are proposing to calculate the expected lives using Medicare cost report data from freestanding and hospital-based IRFs. The expected life of any asset can be determined by dividing the value of the asset (excluding fully depreciated assets) by its current year depreciation amount. This calculation yields the estimated expected life of an asset if the rates of depreciation were to continue at current year levels, assuming straight-line depreciation. We are proposing to determine the expected life of building and fixed equipment separately for hospital-based IRFs and freestanding IRFs, and then weight these expected lives using the percent of total capital costs each provider type represents. We are proposing to apply a similar method for movable equipment. Using these proposed methods, we determined the average expected life of building and fixed equipment to be equal to 22 years, and the average expected life of movable equipment to be equal to 11 years. For the expected life of interest, we believe vintage weights for interest should represent the average expected life of building and fixed equipment because, based on previous research described in the FY 1997 IPPS final rule (61 FR 46198), the expected life of hospital debt instruments and the expected life of buildings and fixed equipment are similar. We note that for the 2012-based

IRF market basket, the expected life of building and fixed equipment is 23 years, and the expected life of movable equipment is 11 years (80 FR 47062).

Multiplying these expected lives by the annual depreciation amounts results in annual year-end asset costs for building and fixed equipment and movable equipment. We then calculate a time series, beginning in 1964, of annual capital purchases by subtracting the previous year's asset costs from the current year's asset costs.

For the building and fixed equipment and movable equipment vintage weights, we are proposing to use the real annual capital-related purchase amounts for each asset type to capture the actual amount of the physical acquisition, net of the effect of price inflation. These real annual capital-related purchase amounts are produced by deflating the nominal annual purchase amount by the associated price proxy as provided earlier in this

proposed rule. For the interest vintage weights, we are proposing to use the total nominal annual capital-related purchase amounts to capture the value of the debt instrument (including, but not limited to, mortgages and bonds). Using these capital-related purchase time series specific to each asset type, we are proposing to calculate the vintage weights for building and fixed equipment, for movable equipment, and for interest.

The vintage weights for each asset type are deemed to represent the average purchase pattern of the asset over its expected life (in the case of building and fixed equipment and interest, 22 years, and in the case of movable equipment, 11 years). For each asset type, we used the time series of annual capital-related purchase amounts available from 2016 back to 1964. These data allow us to derive thirty-two 22-year periods of capital-related purchases for building and fixed

equipment and interest, and forty-three 11-year periods of capital-related purchases for movable equipment. For each 22-year period for building and fixed equipment and interest, or 11-year period for movable equipment, we calculate annual vintage weights by dividing the capital-related purchase amount in any given year by the total amount of purchases over the entire 22-year or 11-year period. This calculation is done for each year in the 22-year or 11-year period and for each of the periods for which we have data. We then calculate the average vintage weight for a given year of the expected life by taking the average of these vintage weights across the multiple periods of data. The vintage weights for the capital-related portion of the proposed 2016-based IRF market basket and the 2012-based IRF market basket are presented in Table 10.

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TABLE 10: Proposed 2016-Based IRF Market Basket and 2012-based IRF Market Basket Vintage Weights for Capital-Related Price Proxies

Year	Building and Fixed Equipment		Movable Equipment		Interest	
	2016-based 22 years	2012-based 23 years	2016 based 11 years	2012-based 11 years	2016 based 22 years	2012 based 23 years
1	0.035	0.029	0.071	0.069	0.021	0.017
2	0.036	0.031	0.075	0.073	0.023	0.019
3	0.038	0.034	0.080	0.077	0.025	0.022
4	0.038	0.036	0.085	0.083	0.026	0.024
5	0.040	0.037	0.087	0.087	0.029	0.026
6	0.042	0.039	0.091	0.091	0.031	0.028
7	0.042	0.040	0.095	0.096	0.033	0.030
8	0.041	0.041	0.099	0.100	0.033	0.032
9	0.042	0.042	0.102	0.103	0.036	0.035
0	0.043	0.044	0.105	0.107	0.038	0.038
1	0.046	0.045	0.110	0.114	0.042	0.040
2	0.047	0.045	--	--	0.045	0.042
3	0.048	0.045	--	--	0.048	0.044
4	0.049	0.046	--	--	0.052	0.046
5	0.050	0.046	--	--	0.055	0.048
6	0.050	0.048	--	--	0.057	0.053
7	0.051	0.049	--	--	0.060	0.057
8	0.053	0.050	--	--	0.065	0.060
9	0.053	0.051	--	--	0.068	0.063
0	0.053	0.051	--	--	0.069	0.066
1	0.052	0.051	--	--	0.070	0.067
2	0.052	0.050	--	--	0.072	0.069
3	--	0.052	--	--		0.073
Total	1.000	1.000	1.000	1.000	1.000	1.000

Note: Numbers may not add to total due to rounding.

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The process of creating vintage-weighted price proxies requires applying the vintage weights to the

price proxy index where the last applied vintage weight in Table 8 is applied to the most recent data point. We have

provided on the CMS website an example of how the vintage weighting price proxies are calculated, using

example vintage weights and example price indices. The example can be found at http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MedicareProgram	RatesStats/MarketBasketResearch.html in the zip file titled “Weight Calculations as described in the IPPS FY 2010 Proposed Rule.”	c. Summary of Price Proxies of the Proposed 2016-Based IRF Market Basket Table 11 shows both the operating and capital price proxies for the proposed 2016-based IRF market basket.
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TABLE 11: Proposed Price Proxies and Cost Share Weights for use in the 2016-based IRF Market Basket

Cost Description	Price Proxies	Weight
Total		100.0%
Compensation		59.4%
Wages and Salaries	ECI for Wages and Salaries for All Civilian workers in Hospitals	47.9%
Employee Benefits	ECI for Total Benefits for All Civilian workers in Hospitals	11.4%
Utilities		1.4%
Electricity	PPI for Commercial Electric Power	1.0%
Fuel, Oil, and Gasoline	Blend of the PPI for Petroleum Refineries and PPI for Natural Gas	0.4%
Professional Liability Insurance		0.7%
Malpractice	CMS Hospital Professional Liability Insurance Premium Index	0.7%
All Other Products and Services		29.5%
All Other Products		12.5%
Pharmaceuticals	PPI for Pharmaceuticals for human use, prescription	5.1%
Food: Direct Purchases	PPI for Processed Foods and Feeds	1.1%
Food: Contract Services	CPI-U for Food Away From Home	1.2%
Chemicals	Blend of Chemical PPIs	0.4%
Medical Instruments	Blend of the PPI for Surgical and medical instruments and PPI for Medical and surgical appliances and supplies	2.9%
Rubber & Plastics	PPI for Rubber and Plastic Products	0.4%
Paper and Printing Products	PPI for Converted Paper and Paperboard Products	0.6%
Miscellaneous Products	PPI for Finished Goods Less Food and Energy	0.8%
All Other Services		17.0%
Labor-Related Services		9.2%
Professional Fees: Labor-related	ECI for Total compensation for Private industry workers in Professional and related	5.0%
Administrative and Facilities Support Services	ECI for Total compensation for Private industry workers in Office and administrative support	0.7%
Installation, Maintenance & Repair	ECI for Total compensation for Civilian workers in Installation, maintenance, and repair	1.6%
All Other: Labor-related Services	ECI for Total compensation for Private industry workers in Service occupations	1.8%
Nonlabor-Related Services		7.9%
Professional Fees: Nonlabor-related	ECI for Total compensation for Private industry workers in Professional and related	5.4%
Financial services	ECI for Total compensation for Private industry workers in Financial activities	0.9%
Telephone Services	CPI-U for Telephone Services	0.3%
All Other: Nonlabor-related Services	CPI-U for All Items Less Food and Energy	1.3%
Capital-Related Costs		9.0%
Depreciation		6.5%
Fixed Assets	BEA chained price index for nonresidential construction for hospitals and special care facilities - vintage weighted (22 years)	4.1%
Movable Equipment	PPI for machinery and equipment - vintage weighted (11 years)	2.5%
Interest Costs		1.5%
Government/Nonprofit	Average yield on domestic municipal bonds (Bond Buyer 20 bonds) - vintage weighted (22 years)	0.9%
For Profit	Average yield on Moody's Aaa bonds - vintage weighted (22 years)	0.6%
Other Capital-Related Costs	CPI-U for Rent of primary residence	1.0%

Note: Totals may not sum to 100.0 percent due to rounding.

D. Proposed FY 2020 Market Basket Update and Productivity Adjustment

1. Proposed FY 2020 Market Basket Update

For FY 2020 (that is, beginning October 1, 2019 and ending September 30, 2020), we are proposing to use the proposed 2016-based IRF market basket increase factor described in section V.C. of this proposed rule to update the IRF PPS base payment rate. Consistent with historical practice, we are proposing to estimate the market basket update for the IRF PPS based on IHS Global Inc.'s (IGI's) forecast using the most recent available data. IGI is a nationally

recognized economic and financial forecasting firm with which we contract to forecast the components of the market baskets and multifactor productivity (MFP).

Based on IGI's first quarter 2019 forecast with historical data through the fourth quarter of 2018, the projected proposed 2016-based IRF market basket increase factor for FY 2020 is 3.0 percent. Therefore, consistent with our historical practice of estimating market basket increases based on the best available data, we are proposing a market basket increase factor of 3.0 percent for FY 2020. We are also proposing that if more recent data are

subsequently available (for example, a more recent estimate of the market basket) we would use such data to determine the FY 2020 update in the final rule. For comparison, the current 2012-based IRF market basket is also projected to increase by 3.0 percent in FY 2020 based on IGI's first quarter 2019 forecast. Table 12 compares the proposed 2016-based IRF market basket and the 2012-based IRF market basket percent changes. On average, the two indexes produce similar updates to one another, with the 5-year average historical and forecasted growth rates for both IRF market baskets equal to 2.1 percent and 3.0 percent, respectively.

TABLE 12: Proposed 2016-Based IRF Market Basket and 2012-Based IRF Market Basket Percent Changes, FY 2015 through FY 2022

	Fiscal Year (FY)	Proposed 2016-Based IRF Market Basket Index Percent Change	2012-Based IRF Market Basket Index Percent Change
Historical data	FY 2015	1.7	1.6
	FY 2016	1.8	1.8
	FY 2017	2.4	2.5
	FY 2018	2.3	2.4
	Average 2015-2018	2.1	2.1
Forecast	FY 2019	2.7	2.7
	FY 2020	3.0	3.0
	FY 2021	3.2	3.2
	FY 2022	3.1	3.1
	Average 2019-2022	3.0	3.0

Note that these market basket percent changes do not include any further adjustments as may be statutorily required.

Source: IHS Global Inc. 1st quarter 2019 forecast.

2. Proposed Productivity Adjustment

According to section 1886(j)(3)(C)(i) of the Act, the Secretary shall establish an increase factor based on an appropriate percentage increase in a market basket of goods and services. As described in sections V.C and V.D.1. of this proposed rule, we are proposing to estimate the IRF PPS increase factor for FY 2020 based on the proposed 2016-based IRF market basket. Section 1886(j)(3)(C)(ii) of the Act then requires that, after establishing the increase factor for a FY, the Secretary shall reduce such increase factor for FY 2012 and each subsequent FY, by the productivity adjustment described in section 1886(b)(3)(B)(xi)(II) of the Act. Section 1886(b)(3)(B)(xi)(II) of the Act sets forth the definition of this productivity adjustment. The statute defines the productivity adjustment to be equal to the 10-year moving average of changes in annual economy-wide private nonfarm business MFP (as projected by the Secretary for

the 10-year period ending with the applicable FY, year, cost reporting period, or other annual period) (the "MFP adjustment"). The BLS publishes the official measure of private nonfarm business MFP. Please see <http://www.bls.gov/mfp> for the BLS historical published MFP data.

MFP is derived by subtracting the contribution of labor and capital input growth from output growth. The projections of the components of MFP are currently produced by IGI, a nationally recognized economic forecasting firm with which CMS contracts to forecast the components of the market basket and MFP. For more information on the productivity adjustment, we refer reader to the discussion in the FY 2016 IRF PPS final rule (80 FR 47065).

Using IGI's first quarter 2019 forecast, the MFP adjustment for FY 2020 (the 10-year moving average of MFP for the period ending FY 2020) is projected to be 0.5 percent. Thus, in accordance with

section 1886(j)(3)(C) of the Act, we propose to base the FY 2020 market basket update, which is used to determine the applicable percentage increase for the IRF payments, on the most recent estimate of the proposed 2016-based IRF market basket (currently estimated to be 3.0 percent based on IGI's first quarter 2019 forecast). We propose to then reduce this percentage increase by the current estimate of the MFP adjustment for FY 2020 of 0.5 percentage point (the 10-year moving average of MFP for the period ending FY 2020 based on IGI's first quarter 2019 forecast). Therefore, the current estimate of the FY 2020 IRF update is 2.5 percent (3.0 percent market basket update, less 0.5 percentage point MFP adjustment). Furthermore, we propose that if more recent data are subsequently available (for example, a more recent estimate of the market basket and MFP adjustment), we would use such data to determine the FY 2020 market basket update and MFP adjustment in the final rule.

For FY 2020, the Medicare Payment Advisory Commission (MedPAC) recommends that a decrease of 5 percent be applied to IRF PPS payment rates. As discussed, and in accordance with section 1886(j)(3)(C) of the Act, the Secretary proposes to update IRF PPS payment rates for FY 2020 by an adjusted market basket increase factor of 2.5 percent, as section 1886(j)(3)(C) of the Act does not provide the Secretary with the authority to apply a different update factor to IRF PPS payment rates for FY 2020.

We invite public comment on these proposals.

E. Proposed Labor-Related Share for FY 2020

Section 1886(j)(6) of the Act specifies that the Secretary is to adjust the proportion (as estimated by the Secretary from time to time) of rehabilitation facilities' costs which are attributable to wages and wage-related costs, of the prospective payment rates computed under section 1886(j)(3) of the Act for area differences in wage levels by a factor (established by the Secretary) reflecting the relative hospital wage level in the geographic area of the rehabilitation facility compared to the national average wage level for such facilities. The labor-related share is determined by identifying the national average proportion of total costs that are related to, influenced by, or vary with the local labor market. We propose to continue to classify a cost category as labor-related if the costs are labor-intensive and vary with the local labor market. As stated in the FY 2016 IRF PPS final rule (80 FR 47068), the labor-related share was defined as the sum of the relative importance of Wages and Salaries, Employee Benefits, Professional Fees: Labor-related Services, Administrative and Facilities Support Services, Installation, Maintenance, and Repair, All Other: Labor-related Services, and a portion of the Capital Costs from the 2012-based IRF market basket.

Based on our definition of the labor-related share and the cost categories in the proposed 2016-based IRF market basket, we are proposing to include in the labor-related share for FY 2020 the sum of the FY 2020 relative importance of Wages and Salaries, Employee Benefits, Professional Fees: Labor-related, Administrative and Facilities Support Services, Installation, Maintenance, and Repair, All Other: Labor-related Services, and a portion of the Capital-Related cost weight from the proposed 2016-based IRF market basket.

Similar to the 2012-based IRF market basket (80 FR 47067), the proposed

2016-based IRF market basket includes two cost categories for nonmedical Professional Fees (including, but not limited to, expenses for legal, accounting, and engineering services). These are Professional Fees: Labor-related and Professional Fees: Nonlabor-related. For the proposed 2016-based IRF market basket, we propose to estimate the labor-related percentage of non-medical professional fees (and assign these expenses to the Professional Fees: Labor-related services cost category) based on the same method that was used to determine the labor-related percentage of professional fees in the 2012-based IRF market basket.

As was done in the 2012-based IRF market basket (80 FR 47067), we propose to determine the proportion of legal, accounting and auditing, engineering, and management consulting services that meet our definition of labor-related services based on a survey of hospitals conducted by us in 2008, a discussion of which can be found in the FY 2010 IPPS/LTCH PPS final rule (74 FR 43850 through 43856). Based on the weighted results of the survey, we determined that hospitals purchase, on average, the following portions of contracted professional services outside of their local labor market:

- 34 percent of accounting and auditing services.
- 30 percent of engineering services.
- 33 percent of legal services.
- 42 percent of management consulting services.

We are proposing to apply each of these percentages to the respective Benchmark I-O cost category underlying the professional fees cost category to determine the Professional Fees: Nonlabor-related costs. The Professional Fees: Labor-related costs were determined to be the difference between the total costs for each Benchmark I-O category and the Professional Fees: Nonlabor-related costs. This is the same methodology that we used to separate the 2012-based IRF market basket professional fees category into Professional Fees: Labor-related and Professional Fees: Nonlabor-related cost categories (80 FR 47067).

In the proposed 2016-based IRF market basket, nonmedical professional fees that are subject to allocation based on these survey results represent 4.4 percent of total costs (and are limited to those fees related to Accounting & Auditing, Legal, Engineering, and Management Consulting services). Based on our survey results, we propose to apportion 2.8 percentage points of the 4.4 percentage point figure into the

Professional Fees: Labor-related share cost category and designate the remaining 1.6 percentage point into the Professional Fees: Nonlabor-related cost category.

In addition to the professional services listed, for the 2016-based IRF market basket, we are proposing to allocate a proportion of the Home Office Contract Labor cost weight, calculated using the Medicare cost reports as stated above, into the Professional Fees: Labor-related and Professional Fees: Nonlabor-related cost categories. We are proposing to classify these expenses as labor-related and nonlabor-related as many facilities are not located in the same geographic area as their home office, and therefore, do not meet our definition for the labor-related share that requires the services to be purchased in the local labor market. For the 2012-based IRF market basket, we used the BEA I-O expense data for NAICS 55, Management of Companies and Enterprises, to estimate the Home Office Contract Labor cost weight (80 FR 47067). We then allocated these expenses into the Professional Fees: Labor-related and Professional Fees: Nonlabor-related cost categories.

Similar to the 2012-based IRF market basket, we are proposing for the 2016-based IRF market basket to use the Medicare cost reports for both freestanding IRF providers and hospital-based IRF providers to determine the home office labor-related percentages. The Medicare cost report requires a hospital to report information regarding their home office provider. For the 2016-based IRF market basket, we are proposing to start with the sample of IRF providers that passed the top 1 percent trim used to derive the Home Office Contract Labor cost weight as described in section V.B. of this proposed rule. For both freestanding and hospital-based providers, we are proposing to multiply each provider's Home Office Contract Labor cost weight (calculated using data from the total facility) by Medicare allowable total costs. This results in an amount of Medicare allowable home office compensation costs for each IRF. Using information on the Medicare cost report, we then compare the location of the IRF with the location of the IRF's home office. We are proposing to classify an IRF with a home office located in their respective local labor market if the IRF and its home office are located in the same Metropolitan Statistical Area. We then calculate the proportion of Medicare allowable home office compensation costs that these IRFs represent of total Medicare allowable home office compensation costs. We

propose to multiply this percentage (42 percent) by the Home Office Contract Labor cost weight (3.7 percent) to determine the proportion of costs that should be allocated to the labor-related share. Therefore, we are allocating 1.6 percentage points of the Home Office Contract Labor cost weight (3.7 percent times 42 percent) to the Professional Fees: Labor-related cost weight and 2.1 percentage points of the Home Office Contract Labor cost weight to the Professional Fees: Nonlabor-related cost weight (3.7 percent times 58 percent). For the 2012-based IRF market basket, we used a similar methodology but we relied on provider counts rather than home office/related organization contract labor compensation costs to determine the labor-related percentage (80 FR 47067).

In summary, we apportioned 2.8 percentage points of the non-medical professional fees and 1.6 percentage points of the home office/related organization contract labor cost weights into the Professional Fees: Labor-related

cost category. This amount was added to the portion of professional fees that was identified to be labor-related using the I-O data such as contracted advertising and marketing costs (approximately 0.6 percentage point of total costs) resulting in a Professional Fees: Labor-related cost weight of 5.0 percent.

As stated previously, we are proposing to include in the labor-related share the sum of the relative importance of Wages and Salaries, Employee Benefits, Professional Fees: Labor-Related, Administrative and Facilities Support Services, Installation, Maintenance, and Repair, All Other: Labor-related Services, and a portion of the Capital-Related cost weight from the proposed 2016-based IRF market basket. The relative importance reflects the different rates of price change for these cost categories between the base year (2016) and FY 2020. Based on IGI's 1st quarter 2019 forecast for the proposed 2016-based IRF market basket, the sum of the FY 2020 relative importance for Wages and Salaries, Employee Benefits,

Professional Fees: Labor-related, Administrative and Facilities Support Services, Installation Maintenance & Repair Services, and All Other: Labor-related Services is 68.7 percent. The portion of Capital costs that is influenced by the local labor market is estimated to be 46 percent, which is the same percentage applied to the 2012-based IRF market basket (80 FR 47068). Since the relative importance for Capital is 8.5 percent of the proposed 2016-based IRF market basket in FY 2020, we took 46 percent of 8.5 percent to determine the proposed labor-related share of Capital for FY 2020 of 3.9 percent. Therefore, we are proposing a total labor-related share for FY 2020 of 72.6 percent (the sum of 68.7 percent for the operating costs and 3.9 percent for the labor-related share of Capital). Table 13 shows the FY 2020 labor-related share using the proposed 2016-based IRF market basket relative importance and the FY 2019 labor-related share using the 2012-based IRF market basket relative importance.

TABLE 13—PROPOSED FY 2020 IRF LABOR-RELATED SHARE AND FY 2019 IRF LABOR-RELATED SHARE

	FY 2020 proposed labor-related share ¹	FY 2019 final labor related share ²
Wages and Salaries	48.1	47.7
Employee Benefits	11.4	11.1
Professional Fees: Labor-related ³	5.0	3.4
Administrative and Facilities Support Services	0.8	0.8
Installation, Maintenance, and Repair	1.6	1.9
All Other: Labor-related Services	1.8	1.8
Subtotal	68.7	66.7
Labor-related portion of capital (46%)	3.9	3.8
Total Labor-Related Share	72.6	70.5

¹ Based on the proposed 2016-based IRF Market Basket, IHS Global Insight, Inc. 1st quarter 2019 forecast.

² Based on the 2012-based IRF market basket as published in the FEDERAL REGISTER (83 FR 38526).

³ Includes all contract advertising and marketing costs and a portion of accounting, architectural, engineering, legal, management consulting, and home office contract labor costs.

We invite public comment on the proposed labor-related share for FY 2020.

F. Proposed Update to the IRF Wage Index To Use Concurrent FY IPPS Wage Index Beginning With FY 2020

1. Background

Section 1886(j)(6) of the Act requires the Secretary to adjust the proportion of rehabilitation facilities' costs attributable to wages and wage-related costs (as estimated by the Secretary from time to time) by a factor (established by the Secretary) reflecting the relative hospital wage level in the geographic area of the rehabilitation facility

compared to the national average wage level for those facilities. The Secretary is required to update the IRF PPS wage index on the basis of information available to the Secretary on the wages and wage-related costs to furnish rehabilitation services. Any adjustment or updates made under section 1886(j)(6) of the Act for a FY are made in a budget-neutral manner.

2. Proposed Update to the IRF Wage Index To Use Concurrent FY IPPS Wage Index Beginning With FY 2020

When the IRF PPS was implemented in the FY 2002 IRF PPS final rule (66 FR 41358), we finalized the use of the IPPS wage data in the creation of an IRF

wage index. We believed that a wage index based on IPPS wage data was the best proxy and most appropriate wage index to use in adjusting payments to IRFs, since both IPPS hospitals and IRFs compete in the same labor markets. For this reason, we believed, and continue to believe, that the wage data of IPPS hospitals accurately captures the relationship of wages and wage-related costs of IRFs in an area as compared with the national average. Therefore, in the FY 2002 IRF PPS final rule, we finalized use of the FY 1997 IPPS wage data to develop the wage index for the IRF PPS, as that was the most recent final data available.

For all subsequent years in which the IRF PPS wage index has been updated, we have continued to use the most recent final IPPS data available, which has led us to use the pre-floor, pre-reclassified IPPS wage index values from the prior fiscal year.

In the FY 2018 IRF PPS proposed rule (82 FR 20742 through 20743), we included a request for information (RFI) to solicit comments from stakeholders requesting information on CMS flexibilities and efficiencies. The purpose of the RFI was to receive feedback regarding ways in which we could reduce burden for hospitals and physicians, improve quality of care, decrease costs and ensure that patients receive the best care. We received comments from IRF industry associations, state and national hospital associations, industry groups, representing hospitals, and individual IRF providers in response to the solicitation. One of the responses we received to the RFI suggested that there is concern among IRF stakeholders

about the different wage index data used in the different post-acute care settings. For the IRF PPS, we use a one-year lag of the pre-floor, pre-reclassified IPPS wage index, meaning that for the IRF PPS for FY 2019, we finalized use of the FY 2018 IPPS wage index (83 FR 38527). However, we base the wage indexes for the SNF PPS and the LTCH PPS on the concurrent year's IPPS wage index ((83 FR 39172 through 39178) and (83 FR 41731), respectively).

As we look towards a more unified post-acute care payment system, we believe that standardizing the wage index data across post-acute care settings is necessary. Therefore, we are proposing to change the IRF wage index methodology to align with other post-acute care settings. Specifically, we are proposing to change from our established policy of using the pre-floor, pre-reclassified IPPS wage index from the prior fiscal year as the basis for the IRF wage index to using, instead, the pre-floor, pre-reclassified IPPS wage index from the current fiscal year. This

proposed change would use the concurrent fiscal year's pre-floor, pre-reclassified IPPS wage index for the IRF wage index beginning with FY 2020 and continuing for all subsequent years. Thus, for the FY 2020 IRF wage index, we would propose to use the FY 2020 pre-floor, pre-reclassified IPPS wage index. We are proposing to implement these revisions in a budget neutral manner. For more information on the impacts of this proposal, we refer readers to Table 14. Table 14 shows the estimated effects of maintaining the existing wage index methodology for FY 2020 compared to the effects of implementing the proposed change to the wage index methodology as described above. For a provider specific impact analysis of this proposed change, we refer readers to the CMS website at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/IRF-Rules-and-Related-Files.html>.

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TABLE 14: Distributional Effects of the Proposed Changes to the IRF Wage Index Methodology

Facility Classification	Number of IRFs	Number of Cases	Estimated Impact of Wage Index Update Under Current Methodology	Estimated Impact of Wage Index Update Under Proposed Methodology
(1)	(2)	(3)	(4)	(5)
Total	1,119	409,982	0.0	0.0
Urban unit	696	166,872	0.1	0.1
Rural unit	136	21,700	0.0	0.4
Urban hospital	276	216,894	-0.1	-0.1
Rural hospital	11	4,516	-0.6	-0.8
Urban For-Profit	357	211,280	-0.1	-0.1
Rural For-Profit	36	7,920	-0.4	-0.3
Urban Non-Profit	522	150,310	0.1	0.1
Rural Non-Profit	90	15,166	0.0	0.4
Urban Government	93	22,176	0.4	0.0
Rural Government	21	3,130	-0.3	0.2
Urban	972	383,766	0.0	0.0
Rural	147	26,216	-0.1	0.2
Urban by region				
Urban New England	29	16,260	0.0	-0.1
Urban Middle Atlantic	135	51,539	0.2	-0.1
Urban South Atlantic	147	77,315	-0.2	-0.6
Urban East North Central	165	50,466	-0.3	-0.2
Urban East South Central	56	27,966	-0.3	-0.6
Urban West North Central	74	20,822	-0.3	0.2
Urban West South Central	184	84,068	0.2	0.4
Urban Mountain	83	30,294	-0.7	-0.7
Urban Pacific	99	25,036	1.4	1.6
Rural by region				
Rural New England	5	1,317	-0.9	-2.4
Rural Middle Atlantic	12	1,248	-0.1	0.0
Rural South Atlantic	16	3,639	-0.1	0.6
Rural East North Central	23	4,061	0.0	0.3
Rural East South Central	21	4,523	-0.6	-0.1
Rural West North Central	22	3,178	0.2	0.4
Rural West South Central	40	7,332	0.1	0.6
Rural Mountain	5	626	-0.1	1.0
Rural Pacific	3	292	-0.1	0.2
Teaching status				
Non-teaching	1,014	362,675	-0.1	0.0
Resident to ADC less than 10%	60	34,000	0.4	0.1
Resident to ADC 10%-19%	31	11,784	0.1	-0.1
Resident to ADC greater than 19%	14	1,523	0.1	0.0
Disproportionate share patient percentage (DSH PP)				
DSH PP = 0%	29	5,300	-0.5	-0.7
DSH PP <5%	139	60,003	-0.1	-0.1
DSH PP 5%-10%	299	127,442	-0.2	-0.1
DSH PP 10%-20%	371	139,001	0.0	-0.1
DSH PP greater than 20%	281	78,236	0.3	0.3

It would also result in more consistency and equity in the wage index methodology used by Medicare.

We invite comments on this proposal to align the data timeframes with that of the IPPS by using the FY 2020 pre-floor, pre-reclassified IPPS wage index as the basis for the FY 2020 IRF wage index.

3. Proposed Wage Adjustment for FY 2020 Using Concurrent IPPS Wage Index

Due to our proposal to use the concurrent IPPS wage index beginning with FY 2020, for FY 2020, we are proposing to use the policy and methodologies described in section V. of this proposed rule related to the labor market area definitions and the wage index methodology for areas with wage data. Thus, we propose to use the CBSA labor market area definitions and the FY 2020 pre-reclassification and pre-floor IPPS wage index data. In accordance with section 1886(d)(3)(E) of the Act, the FY 2020 pre-reclassification and pre-floor IPPS wage index is based on data submitted for hospital cost reporting periods beginning on or after October 1, 2015 and before October 1, 2016 (that is, FY 2016 cost report data).

The labor market designations made by the OMB include some geographic areas where there are no hospitals and, thus, no hospital wage index data on which to base the calculation of the IRF PPS wage index. We propose to continue to use the same methodology discussed in the FY 2008 IRF PPS final rule (72 FR 44299) to address those geographic areas where there are no hospitals and, thus, no hospital wage index data on which to base the calculation for the FY 2020 IRF PPS wage index.

We invite public comment on this proposal.

4. Core-Based Statistical Areas (CBSAs) for the Proposed FY 2020 IRF Wage Index

The wage index used for the IRF PPS is calculated using the pre-reclassification and pre-floor IPPS wage index data and is assigned to the IRF on the basis of the labor market area in which the IRF is geographically located. IRF labor market areas are delineated based on the CBSAs established by the OMB. The current CBSA delineations (which were implemented for the IRF PPS beginning with FY 2016) are based on revised OMB delineations issued on February 28, 2013, in OMB Bulletin No. 13–01. OMB Bulletin No. 13–01 established revised delineations for Metropolitan Statistical Areas, Micropolitan Statistical Areas, and Combined Statistical Areas in the

United States and Puerto Rico based on the 2010 Census, and provided guidance on the use of the delineations of these statistical areas using standards published in the June 28, 2010 **Federal Register** (75 FR 37246 through 37252). We refer readers to the FY 2016 IRF PPS final rule (80 FR 47068 through 47076) for a full discussion of our implementation of the OMB labor market area delineations beginning with the FY 2016 wage index.

Generally, OMB issues major revisions to statistical areas every 10 years, based on the results of the decennial census. However, OMB occasionally issues minor updates and revisions to statistical areas in the years between the decennial censuses. On July 15, 2015, OMB issued OMB Bulletin No. 15–01, which provides minor updates to and supersedes OMB Bulletin No. 13–01 that was issued on February 28, 2013. The attachment to OMB Bulletin No. 15–01 provides detailed information on the update to statistical areas since February 28, 2013. The updates provided in OMB Bulletin No. 15–01 are based on the application of the 2010 Standards for Delineating Metropolitan and Micropolitan Statistical Areas to Census Bureau population estimates for July 1, 2012 and July 1, 2013.

In the FY 2018 IRF PPS final rule (82 FR 36250 through 36251), we adopted the updates set forth in OMB Bulletin No. 15–01 effective October 1, 2017, beginning with the FY 2018 IRF wage index. For a complete discussion of the adoption of the updates set forth in OMB Bulletin No. 15–01, we refer readers to the FY 2018 IRF PPS final rule. In the FY 2019 IRF PPS final rule (83 FR 38527), we continued to use the OMB delineations that were adopted beginning with FY 2016 to calculate the area wage indexes, with updates set forth in OMB Bulletin No. 15–01 that we adopted beginning with the FY 2018 wage index.

On August 15, 2017, OMB issued OMB Bulletin No. 17–01, which provided updates to and superseded OMB Bulletin No. 15–01 that was issued on July 15, 2015. The attachments to OMB Bulletin No. 17–01 provide detailed information on the update to statistical areas since July 15, 2015, and are based on the application of the 2010 Standards for Delineating Metropolitan and Micropolitan Statistical Areas to Census Bureau population estimates for July 1, 2014 and July 1, 2015. In OMB Bulletin No. 17–01, OMB announced that one Micropolitan Statistical Area now qualifies as a Metropolitan Statistical Area. The new urban CBSA is as follows:

- Twin Falls, Idaho (CBSA 46300). This CBSA is comprised of the principal city of Twin Falls, Idaho in Jerome County, Idaho and Twin Falls County, Idaho.

The OMB bulletin is available on the OMB website at <https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/bulletins/2017/b-17-01.pdf>.

As we indicated in the FY 2019 IRF PPS final rule (83 FR 38528), we believe that it is important for the IRF PPS to use the latest labor market area delineations available as soon as is reasonably possible to maintain a more accurate and up-to-date payment system that reflects the reality of population shifts and labor market conditions. As discussed in the FY 2019 IPPS and LTCH PPS final rule (83 FR 20591), these updated labor market area definitions were implemented under the IPPS beginning on October 1, 2018. Therefore, we are proposing to implement these revisions for the IRF PPS beginning October 1, 2019, consistent with our historical practice of modeling IRF PPS adoption of the labor market area delineations after IPPS adoption of these delineations.

We invite public comments on these proposals.

5. Wage Adjustment

The proposed FY 2020 wage index tables (which, as discussed in section V.F above, we propose to base on the FY 2020 pre-reclassified, pre-floor FY 2020 IPPS wage index) are available on the CMS website at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/IRF-Rules-and-Related-Files.html>. Table A is for urban areas, and Table B is for rural areas.

To calculate the wage-adjusted facility payment for the payment rates set forth in this proposed rule, we would multiply the unadjusted federal payment rate for IRFs by the FY 2020 labor-related share based on the 2016-based IRF market basket (72.6 percent) to determine the labor-related portion of the standard payment amount. A full discussion of the calculation of the labor-related share is located in section V.E of this proposed rule. We would then multiply the labor-related portion by the applicable IRF wage index from the tables in the addendum to this proposed rule. These tables are available on the CMS website at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/IRF-Rules-and-Related-Files.html>. Adjustments or updates to the IRF wage index made under section 1886(j)(6) of the Act must be made in a

budget-neutral manner. We propose to calculate a budget-neutral wage adjustment factor as established in the FY 2004 IRF PPS final rule (68 FR 45689), codified at § 412.624(e)(1), as described in the steps below. We propose to use the listed steps to ensure that the proposed FY 2020 IRF standard payment conversion factor reflects the proposed updates to the IRF wage index (based on the FY 2020 IPPS wage index) and the labor-related share in a budget-neutral manner:

Step 1. Determine the total amount of the estimated FY 2019 IRF PPS payments, using the FY 2019 standard payment conversion factor and the labor-related share and the wage indexes from FY 2019 (as published in the FY 2019 IRF PPS final rule (83 FR 38514)).

Step 2. Calculate the total amount of estimated IRF PPS payments using the proposed FY 2020 standard payment conversion factor and the proposed FY 2020 labor-related share and CBSA urban and rural wage indexes.

Step 3. Divide the amount calculated in step 1 by the amount calculated in step 2. The resulting quotient is the

proposed FY 2020 budget-neutral wage adjustment factor of 1.0076.

Step 4. Apply the proposed FY 2020 budget-neutral wage adjustment factor from step 3 to the FY 2020 IRF PPS standard payment conversion factor after the application of the increase factor to determine the FY 2020 proposed standard payment conversion factor.

We discuss the calculation of the proposed standard payment conversion factor for FY 2020 in section V.H. of this proposed rule.

We invite public comment on the proposed IRF wage adjustment for FY 2020.

G. Wage Index Comment Solicitation

Historically, we have calculated the IRF wage index values using unadjusted wage index values from another provider setting. Stakeholders have frequently commented on certain aspects of the IRF wage index values and their impact on payments. We are soliciting comments on concerns stakeholders may have regarding the wage index used to adjust IRF payments and suggestions for possible updates

and improvements to the geographic adjustment of IRF payments.

H. Description of the Proposed IRF Standard Payment Conversion Factor and Payment Rates for FY 2020

To calculate the proposed standard payment conversion factor for FY 2020, as illustrated in Table 15, we begin by applying the proposed increase factor for FY 2020, as adjusted in accordance with sections 1886(j)(3)(C) of the Act, to the standard payment conversion factor for FY 2019 (\$16,021). Applying the proposed 2.5 percent increase factor for FY 2020 to the standard payment conversion factor for FY 2019 of \$16,021 yields a standard payment amount of \$16,422. Then, we apply the proposed budget neutrality factor for the FY 2020 wage index and labor-related share of 1.0076, which results in a proposed standard payment amount of \$16,546. We next apply the proposed budget neutrality factor for the revised CMGs and CMG relative weights of 1.0016, which results in the proposed standard payment conversion factor of \$16,573 for FY 2020.

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TABLE 15: Calculations to Determine the Proposed FY 2020 Standard Payment Conversion Factor

Explanation for Adjustment	Calculations
Standard Payment Conversion Factor for FY 2019	\$16,021
Market Basket Increase Factor for FY 2020 (3.0 percent), reduced by 0.5 percentage point for the productivity adjustment as required by section 1886(j)(3)(C)(ii)(I) of the Act	x 1.025
Budget Neutrality Factor for the Wage Index and Labor-Related Share	x 1.0076
Budget Neutrality Factor for the Revisions to the CMGs and CMG Relative Weights	x 1.0016
Proposed FY 2020 Standard Payment Conversion Factor	= \$16,573

We invite public comment on the proposed FY 2020 standard payment conversion factor.

After the application of the proposed CMG relative weights described in section III. of this proposed rule to the proposed FY 2020 standard payment

conversion factor (\$16,573), the resulting unadjusted IRF prospective payment rates for FY 2020 are shown in Table 16.

TABLE 16: Proposed FY 2020 Payment Rates

CMG	Payment Rate Tier 1	Payment Rate Tier 2	Payment Rate Tier 3	Payment Rate No Comorbidity
0101	\$ 17,598.87	\$ 15,326.71	\$ 14,189.80	\$ 13,510.31
0102	\$ 22,131.58	\$ 19,276.06	\$ 17,845.81	\$ 16,992.30
0103	\$ 26,283.12	\$ 22,890.63	\$ 21,191.90	\$ 20,177.63
0104	\$ 30,845.67	\$ 26,864.83	\$ 24,872.76	\$ 23,681.16
0105	\$ 37,012.48	\$ 32,234.49	\$ 29,844.66	\$ 28,416.07
0106	\$ 40,315.48	\$ 35,111.56	\$ 32,507.94	\$ 30,951.73
0107	\$ 47,070.63	\$ 40,994.97	\$ 37,955.48	\$ 36,137.43
0201	\$ 21,808.41	\$ 17,938.62	\$ 16,394.01	\$ 15,270.36
0202	\$ 26,901.29	\$ 22,126.61	\$ 20,220.72	\$ 18,835.21
0203	\$ 30,537.41	\$ 25,118.04	\$ 22,955.26	\$ 21,382.48
0204	\$ 35,381.70	\$ 29,102.19	\$ 26,596.35	\$ 24,774.98
0205	\$ 44,574.74	\$ 36,664.45	\$ 33,507.29	\$ 31,210.27
0301	\$ 19,607.52	\$ 15,913.39	\$ 14,783.12	\$ 13,798.68
0302	\$ 25,121.35	\$ 20,389.76	\$ 18,939.62	\$ 17,680.08
0303	\$ 30,461.17	\$ 24,721.94	\$ 22,965.21	\$ 21,437.18
0304	\$ 34,592.82	\$ 28,076.32	\$ 26,080.93	\$ 24,344.08
0305	\$ 37,403.60	\$ 30,356.76	\$ 28,198.96	\$ 26,322.90
0401	\$ 22,322.17	\$ 19,020.83	\$ 17,627.04	\$ 16,185.19
0402	\$ 30,133.03	\$ 25,676.55	\$ 23,795.51	\$ 21,849.84
0403	\$ 40,017.17	\$ 34,098.95	\$ 31,599.74	\$ 29,016.01
0404	\$ 52,470.12	\$ 44,710.64	\$ 41,434.16	\$ 38,044.98
0405	\$ 47,307.63	\$ 40,310.51	\$ 37,357.20	\$ 34,301.14
0406	\$ 54,057.81	\$ 46,063.00	\$ 42,687.08	\$ 39,196.80
0407	\$ 67,014.58	\$ 57,103.93	\$ 52,919.25	\$ 48,590.38
0501	\$ 21,576.39	\$ 17,507.72	\$ 16,417.21	\$ 14,995.25
0502	\$ 28,747.53	\$ 23,326.50	\$ 21,873.05	\$ 19,978.75
0503	\$ 37,592.54	\$ 30,504.26	\$ 28,603.34	\$ 26,125.68
0504	\$ 46,896.62	\$ 38,053.27	\$ 35,681.67	\$ 32,592.46
0601	\$ 21,987.40	\$ 17,012.18	\$ 16,039.35	\$ 14,552.75
0602	\$ 27,312.30	\$ 21,130.58	\$ 19,924.06	\$ 18,077.83
0603	\$ 32,347.18	\$ 25,026.89	\$ 23,596.64	\$ 21,409.00
0604	\$ 37,229.59	\$ 28,803.87	\$ 27,158.18	\$ 24,640.74
0701	\$ 21,203.50	\$ 17,090.08	\$ 16,345.95	\$ 14,862.67
0702	\$ 26,911.24	\$ 21,692.40	\$ 20,747.74	\$ 18,865.05
0703	\$ 31,805.24	\$ 25,636.77	\$ 24,519.75	\$ 22,294.00
0704	\$ 35,277.29	\$ 28,434.30	\$ 27,196.29	\$ 24,728.57
0801	\$ 16,853.08	\$ 14,098.65	\$ 12,792.70	\$ 11,846.38
0802	\$ 20,691.39	\$ 17,308.84	\$ 15,706.23	\$ 14,544.46
0803	\$ 25,263.88	\$ 21,133.89	\$ 19,176.62	\$ 17,759.63
0804	\$ 30,946.76	\$ 25,888.68	\$ 23,492.23	\$ 21,755.38
0901	\$ 20,122.94	\$ 16,085.75	\$ 14,981.99	\$ 13,792.05
0902	\$ 25,399.78	\$ 20,303.58	\$ 18,911.45	\$ 17,408.28
0903	\$ 30,003.76	\$ 23,982.79	\$ 22,338.75	\$ 20,563.78
0904	\$ 33,843.72	\$ 27,053.77	\$ 25,197.59	\$ 23,195.57
1001	\$ 21,647.65	\$ 18,397.69	\$ 16,740.39	\$ 15,368.14
1002	\$ 27,763.09	\$ 23,594.98	\$ 21,468.66	\$ 19,710.27
1003	\$ 32,017.38	\$ 27,211.21	\$ 24,758.40	\$ 22,731.53
1004	\$ 35,792.71	\$ 30,418.08	\$ 27,678.57	\$ 25,409.72
1101	\$ 23,483.94	\$ 19,246.22	\$ 17,867.35	\$ 15,038.34
1102	\$ 30,041.88	\$ 24,620.85	\$ 22,857.48	\$ 19,237.94
1103	\$ 33,600.10	\$ 27,537.70	\$ 25,565.51	\$ 21,516.73

CMG	Payment Rate Tier 1	Payment Rate Tier 2	Payment Rate Tier 3	Payment Rate No Comorbidity
1201	\$ 21,838.24	\$ 16,798.39	\$ 16,253.14	\$ 14,953.82
1202	\$ 26,662.64	\$ 20,510.74	\$ 19,844.51	\$ 18,258.47
1203	\$ 27,098.51	\$ 20,845.52	\$ 20,169.34	\$ 18,556.79
1204	\$ 30,800.92	\$ 23,694.42	\$ 22,925.43	\$ 21,092.46
1301	\$ 19,277.71	\$ 16,170.28	\$ 15,275.33	\$ 14,155.00
1302	\$ 24,484.95	\$ 20,540.58	\$ 19,403.67	\$ 17,978.39
1303	\$ 30,595.42	\$ 25,664.95	\$ 24,244.64	\$ 22,464.70
1304	\$ 32,068.76	\$ 26,901.29	\$ 25,413.04	\$ 23,546.92
1401	\$ 19,267.77	\$ 15,661.49	\$ 14,547.78	\$ 13,057.87
1402	\$ 23,618.18	\$ 19,198.16	\$ 17,832.55	\$ 16,006.20
1403	\$ 27,867.50	\$ 22,651.98	\$ 21,041.08	\$ 18,886.59
1404	\$ 32,753.22	\$ 26,624.52	\$ 24,730.23	\$ 22,197.88
1501	\$ 20,582.01	\$ 17,472.91	\$ 16,263.08	\$ 15,442.72
1502	\$ 24,987.11	\$ 21,211.78	\$ 19,743.41	\$ 18,747.38
1503	\$ 29,567.89	\$ 25,099.81	\$ 23,361.30	\$ 22,184.62
1504	\$ 33,953.11	\$ 28,822.10	\$ 26,826.72	\$ 25,474.36
1601	\$ 19,355.61	\$ 15,434.43	\$ 14,542.81	\$ 13,410.87
1602	\$ 24,304.30	\$ 19,380.47	\$ 18,261.79	\$ 16,838.17
1603	\$ 28,435.95	\$ 22,675.18	\$ 21,367.57	\$ 19,701.98
1604	\$ 29,108.82	\$ 23,212.14	\$ 21,871.39	\$ 20,167.68
1701	\$ 23,107.73	\$ 18,115.95	\$ 17,022.13	\$ 15,543.82
1702	\$ 29,992.16	\$ 23,512.12	\$ 22,093.47	\$ 20,174.31
1703	\$ 35,709.84	\$ 27,995.11	\$ 26,304.67	\$ 24,020.91
1704	\$ 39,523.29	\$ 30,984.88	\$ 29,113.79	\$ 26,586.41
1801	\$ 17,814.32	\$ 15,325.05	\$ 13,979.33	\$ 12,766.18
1802	\$ 24,564.50	\$ 21,132.23	\$ 19,277.71	\$ 17,605.50
1803	\$ 31,710.78	\$ 27,279.16	\$ 24,884.36	\$ 22,724.90
1804	\$ 37,624.02	\$ 32,367.07	\$ 29,524.80	\$ 26,964.27
1805	\$ 43,403.03	\$ 37,338.97	\$ 34,060.83	\$ 31,105.86
1806	\$ 57,650.84	\$ 49,594.70	\$ 45,242.63	\$ 41,316.49
1901	\$ 21,417.29	\$ 17,332.04	\$ 16,894.52	\$ 16,241.54
1902	\$ 31,127.41	\$ 25,189.30	\$ 24,554.56	\$ 23,606.58
1903	\$ 41,949.58	\$ 33,946.48	\$ 33,091.31	\$ 31,813.53
1904	\$ 58,512.63	\$ 47,350.72	\$ 46,155.81	\$ 44,374.21
2001	\$ 20,507.43	\$ 16,574.66	\$ 15,525.59	\$ 14,072.13
2002	\$ 25,250.62	\$ 20,409.65	\$ 19,116.96	\$ 17,327.07
2003	\$ 29,248.03	\$ 23,639.73	\$ 22,143.19	\$ 20,069.90
2004	\$ 32,269.29	\$ 26,080.93	\$ 24,428.60	\$ 22,141.53
2005	\$ 34,679.00	\$ 28,028.26	\$ 26,253.29	\$ 23,795.51
2101	\$ 25,515.79	\$ 20,802.43	\$ 19,761.65	\$ 17,494.46
2102	\$ 36,187.15	\$ 29,503.25	\$ 28,028.26	\$ 24,809.78
5001				\$ 3,008.00
5101				\$ 9,443.30
5102				\$ 29,662.36
5103				\$ 11,165.23
5104				\$ 36,422.48

I. Example of the Methodology for Adjusting the Proposed Prospective Payment Rates

Table 17 illustrates the methodology for adjusting the proposed prospective payments (as described in section V. of this proposed rule). The following examples are based on two hypothetical

Medicare beneficiaries, both classified into CMG 0107 (without comorbidities). The proposed unadjusted prospective payment rate for CMG 0107 (without comorbidities) appears in Table 16.

Example: One beneficiary is in Facility A, an IRF located in rural Spencer County, Indiana, and another

beneficiary is in Facility B, an IRF located in urban Harrison County, Indiana. Facility A, a rural non-teaching hospital has a Disproportionate Share Hospital (DSH) percentage of 5 percent (which would result in a LIP adjustment of 1.0156), a wage index of 0.8281, and a rural adjustment of 14.9 percent.

Facility B, an urban teaching hospital, has a DSH percentage of 15 percent (which would result in a LIP adjustment of 1.0454 percent), a wage index of 0.8809, and a teaching status adjustment of 0.0784.

To calculate each IRF's labor and non-labor portion of the proposed prospective payment, we begin by taking the unadjusted prospective payment rate for CMG 0107 (without comorbidities) from Table 16. Then, we multiply the proposed labor-related share for FY 2020 (72.6 percent) described in section V.E. of this proposed rule by the proposed unadjusted prospective payment rate. To determine the non-labor portion of the proposed prospective payment rate, we subtract the labor portion of the

federal payment from the proposed unadjusted prospective payment.

To compute the proposed wage-adjusted prospective payment, we multiply the labor portion of the proposed federal payment by the appropriate wage index located in Tables A and B. These tables are available on the CMS website at <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/InpatientRehabFacPPS/IRF-Rules-and-Related-Files.html>.

The resulting figure is the wage-adjusted labor amount. Next, we compute the proposed wage-adjusted federal payment by adding the wage-adjusted labor amount to the non-labor portion of the proposed federal payment.

Adjusting the proposed wage-adjusted federal payment by the facility-level adjustments involves several steps. First, we take the wage-adjusted prospective payment and multiply it by the appropriate rural and LIP adjustments (if applicable). Second, to determine the appropriate amount of additional payment for the teaching status adjustment (if applicable), we multiply the teaching status adjustment (0.0784, in this example) by the wage-adjusted and rural-adjusted amount (if applicable). Finally, we add the additional teaching status payments (if applicable) to the wage, rural, and LIP-adjusted prospective payment rates. Table 17 illustrates the components of the adjusted payment calculation.

TABLE 17: Example of Computing the FY 2020 IRF Prospective Payment

Steps		Rural Facility A (Spencer Co., IN)		Urban Facility B (Harrison Co., IN)	
1	Unadjusted Payment		\$ 36,137.43		\$36,137.43
2	Labor Share	X	0.726	X	0.726
3	Labor Portion of Payment	=	\$26,235.77	=	\$26,235.77
4	CBSA-Based Wage Index (shown in the Addendum, Tables A and B)	X	0.8281	X	0.8809
5	Wage-Adjusted Amount	=	\$21,725.84	=	\$23,111.09
6	Non-Labor Amount	+	\$ 9,901.66	+	\$ 9,901.66
7	Wage-Adjusted Payment	=	\$31,627.50	=	\$33,012.75
8	Rural Adjustment	X	1.149	X	1.000
9	Wage- and Rural-Adjusted Payment	=	\$36,340.00	=	\$33,012.75
10	LIP Adjustment	X	1.0156	X	1.0454
11	Wage-, Rural- and LIP-Adjusted Payment	=	\$36,906.90	=	\$34,511.53
12	Wage- and Rural-Adjusted Payment		\$36,340.00		\$33,012.75
13	Teaching Status Adjustment	X	0	X	0.0784
14	Teaching Status Adjustment Amount	=	\$0.00	=	\$2,588.20
15	Wage-, Rural-, and LIP-Adjusted Payment	+	\$36,906.90	+	\$34,511.53
16	Total Adjusted Payment	=	\$36,906.90	=	\$37,099.73

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Thus, the proposed adjusted payment for Facility A would be \$36,906.90, and the adjusted payment for Facility B would be \$37,099.73.

VI. Proposed Update to Payments for High-Cost Outliers Under the IRF PPS for FY 2020

A. Proposed Update to the Outlier Threshold Amount for FY 2020

Section 1886(j)(4) of the Act provides the Secretary with the authority to make payments in addition to the basic IRF prospective payments for cases incurring extraordinarily high costs. A case qualifies for an outlier payment if the estimated cost of the case exceeds the adjusted outlier threshold. We calculate the adjusted outlier threshold

by adding the IRF PPS payment for the case (that is, the CMG payment adjusted by all of the relevant facility-level adjustments) and the adjusted threshold amount (also adjusted by all of the relevant facility-level adjustments). Then, we calculate the estimated cost of a case by multiplying the IRF's overall CCR by the Medicare allowable covered charge. If the estimated cost of the case is higher than the adjusted outlier threshold, we make an outlier payment for the case equal to 80 percent of the difference between the estimated cost of the case and the outlier threshold.

In the FY 2002 IRF PPS final rule (66 FR 41362 through 41363), we discussed our rationale for setting the outlier threshold amount for the IRF PPS so that estimated outlier payments would

equal 3 percent of total estimated payments. For the 2002 IRF PPS final rule, we analyzed various outlier policies using 3, 4, and 5 percent of the total estimated payments, and we concluded that an outlier policy set at 3 percent of total estimated payments would optimize the extent to which we could reduce the financial risk to IRFs of caring for high-cost patients, while still providing for adequate payments for all other (non-high cost outlier) cases.

Subsequently, we updated the IRF outlier threshold amount in the FYs 2006 through 2019 IRF PPS final rules and the FY 2011 and FY 2013 notices (70 FR 47880, 71 FR 48354, 72 FR 44284, 73 FR 46370, 74 FR 39762, 75 FR 42836, 76 FR 47836, 76 FR 59256, 77 FR

44618, 78 FR 47860, 79 FR 45872, 80 FR 47036, 81 FR 52056, 82 FR 36238, and 83 FR 38514, respectively) to maintain estimated outlier payments at 3 percent of total estimated payments. We also stated in the FY 2009 final rule (73 FR 46370 at 46385) that we would continue to analyze the estimated outlier payments for subsequent years and adjust the outlier threshold amount as appropriate to maintain the 3 percent target.

To update the IRF outlier threshold amount for FY 2020, we propose to use FY 2018 claims data and the same methodology that we used to set the initial outlier threshold amount in the FY 2002 IRF PPS final rule (66 FR 41316 and 41362 through 41363), which is also the same methodology that we used to update the outlier threshold amounts for FYs 2006 through 2019. The outlier threshold is calculated by simulating aggregate payments and using an iterative process to determine a threshold that results in outlier payments being equal to 3 percent of total payments under the simulation. To determine the outlier threshold for FY 2020, we estimate the amount of FY 2020 IRF PPS aggregate and outlier payments using the most recent claims available (FY 2018) and the proposed FY 2020 standard payment conversion factor, labor-related share, and wage indexes, incorporating any applicable budget-neutrality adjustment factors. The outlier threshold is adjusted either up or down in this simulation until the estimated outlier payments equal 3 percent of the estimated aggregate payments. Based on an analysis of the preliminary data used for the proposed rule, we estimated that IRF outlier payments as a percentage of total estimated payments would be approximately 3.2 percent in FY 2019. Therefore, we propose to update the outlier threshold amount from \$9,402 for FY 2019 to \$9,935 for FY 2020 to maintain estimated outlier payments at approximately 3 percent of total estimated aggregate IRF payments for FY 2020.

We invite public comment on the proposed update to the FY 2020 outlier threshold amount to maintain estimated outlier payments at approximately 3 percent of total estimated IRF payments.

B. Proposed Update to the IRF Cost-to-Charge Ratio Ceiling and Urban/Rural Averages for FY 2020

Cost-to-charge ratios are used to adjust charges from Medicare claims to costs and are computed annually from facility-specific data obtained from Medicare cost reports. IRF specific cost-to-charge ratios are used in the

development of the CMG relative weights and the calculation of outlier payments under the IRF prospective payment system. In accordance with the methodology stated in the FY 2004 IRF PPS final rule (68 FR 45674, 45692 through 45694), we propose to apply a ceiling to IRFs' CCRs. Using the methodology described in that final rule, we propose to update the national urban and rural CCRs for IRFs, as well as the national CCR ceiling for FY 2020, based on analysis of the most recent data that is available. We apply the national urban and rural CCRs in the following situations:

- New IRFs that have not yet submitted their first Medicare cost report.
- IRFs whose overall CCR is in excess of the national CCR ceiling for FY 2020, as discussed below in this section.
- Other IRFs for which accurate data to calculate an overall CCR are not available.

Specifically, for FY 2020, we propose to estimate a national average CCR of 0.500 for rural IRFs, which we calculated by taking an average of the CCRs for all rural IRFs using their most recently submitted cost report data. Similarly, we propose to estimate a national average CCR of 0.406 for urban IRFs, which we calculated by taking an average of the CCRs for all urban IRFs using their most recently submitted cost report data. We apply weights to both of these averages using the IRFs' estimated costs, meaning that the CCRs of IRFs with higher total costs factor more heavily into the averages than the CCRs of IRFs with lower total costs. For this proposed rule, we have used the most recent available cost report data (FY 2017). This includes all IRFs whose cost reporting periods begin on or after October 1, 2016, and before October 1, 2017. If, for any IRF, the FY 2017 cost report was missing or had an "as submitted" status, we used data from a previous fiscal year's (that is, FY 2004 through FY 2016) settled cost report for that IRF. We do not use cost report data from before FY 2004 for any IRF because changes in IRF utilization since FY 2004 resulting from the 60 percent rule and IRF medical review activities suggest that these older data do not adequately reflect the current cost of care.

In accordance with past practice, we propose to set the national CCR ceiling at 3 standard deviations above the mean CCR. Using this method, we propose a national CCR ceiling of 1.31 for FY 2020. This means that, if an individual IRF's CCR were to exceed this ceiling of 1.31 for FY 2020, we would replace the IRF's CCR with the appropriate proposed national average CCR (either

rural or urban, depending on the geographic location of the IRF). We calculated the proposed national CCR ceiling by:

Step 1. Taking the national average CCR (weighted by each IRF's total costs, as previously discussed) of all IRFs for which we have sufficient cost report data (both rural and urban IRFs combined).

Step 2. Estimating the standard deviation of the national average CCR computed in step 1.

Step 3. Multiplying the standard deviation of the national average CCR computed in step 2 by a factor of 3 to compute a statistically significant reliable ceiling.

Step 4. Adding the result from step 3 to the national average CCR of all IRFs for which we have sufficient cost report data, from step 1.

The proposed national average rural and urban CCRs and the proposed national CCR ceiling in this section will be updated in the final rule if more recent data becomes available to use in these analyses.

We invite public comment on the proposed update to the IRF CCR ceiling and the urban/rural averages for FY 2020.

VII. Proposed Amendments to § 412.622 To Clarify the Definition of a Rehabilitation Physician

Under § 412.622(a)(3)(iv), a rehabilitation physician is defined as "a licensed physician with specialized training and experience in inpatient rehabilitation." The term rehabilitation physician is used in several other places in § 412.622, with corresponding references to § 412.622(a)(3)(iv). The definition at § 412.622(a)(3)(iv) does not specify the level or type of training and experience required for a licensed physician to be designated as a rehabilitation physician because we believe that the IRFs are in the best position to make this determination for purposes of § 412.622.

Therefore, we propose to amend the definition of a rehabilitation physician to clarify that the determination as to whether a physician qualifies as a rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation) is made by the IRF. For clarity, we also propose to remove this definition from § 412.622(a)(3)(iv) and move it to a new paragraph (§ 412.622(c)). We also propose to make corresponding technical corrections elsewhere in § 412.622(a)(3)(iv), (a)(4)(i)(A), (a)(4)(iii)(A), and (a)(5)(i) to remove the references to § 412.622(a)(3)(iv) in those paragraphs,

so as to reflect the new location of the definition.

We invite public comment on the proposal to clarify the definition of a rehabilitation physician, to move the definition from § 412.622(a)(3)(iv) to § 412.622(c), and to make corresponding technical corrections elsewhere in § 412.622 to remove references to the current location of the definition in § 412.622(a)(3)(iv).

VIII. Proposed Revisions and Updates to the IRF Quality Reporting Program (QRP)

A. Background

The Inpatient Rehabilitation Facility Quality Reporting Program (IRF QRP) is authorized by section 1886(j)(7) of the Act, and it applies to freestanding IRFs, as well as inpatient rehabilitation units

of hospitals or critical access hospitals (CAHs) paid by Medicare under the IRF PPS. Under the IRF QRP, the Secretary must reduce the annual increase factor for discharges occurring during such fiscal year by 2 percentage points for any IRF that does not submit data in accordance with the requirements established by the Secretary. For more information on the background and statutory authority for the IRF QRP, we refer readers to the FY 2012 IRF PPS final rule (76 FR 47873 through 47874), the CY 2013 Hospital Outpatient Prospective Payment System/ Ambulatory Surgical Center (OPPS/ ASC) Payment Systems and Quality Reporting Programs final rule (77 FR 68500 through 68503), the FY 2014 IRF PPS final rule (78 FR 47902), the FY 2015 IRF PPS final rule (79 FR 45908), the FY 2016 IRF PPS final rule (80 FR

47080 through 47083), the FY 2017 IRF PPS final rule (81 FR 52080 through 52081), the FY 2018 IRF PPS final rule (82 FR 36269 through 36270), and the FY 2019 IRF PPS final rule (83 FR 38555 through 38556).

B. General Considerations Used for the Selection of Measures for the IRF QRP

For a detailed discussion of the considerations we historically used for the selection of IRF QRP quality, resource use, and other measures, we refer readers to the FY 2016 IRF PPS final rule (80 FR 47083 through 47084).

C. Quality Measures Currently Adopted for the FY 2021 IRF QRP

The IRF QRP currently has 15 measures for the FY 2020 program year, which are set out in Table 18.

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TABLE 18: Quality Measures Currently Adopted for the FY 2020 IRF QRP

Short Name	Measure Name & Data Source
IRF-PAI	
Pressure Ulcer/Injury	Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury
Application of Falls	Application of Percent of Residents Experiencing One or More Falls with Major Injury (Long Stay) (NQF #0674)
Application of Functional Assessment	Application of Percent of Long-Term Care Hospital (LTCH) Patients with an Admission and Discharge Functional Assessment and a Care Plan That Addresses Function (NQF #2631)
DRR	Drug Regimen Review Conducted With Follow-Up for Identified Issues- Post Acute Care (PAC) Inpatient Rehabilitation Facility (IRF) Quality Reporting Program (QRP)
Change in Self-Care	IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633)
Change in Mobility	IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634)
Discharge Self-Care Score	IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635)
Discharge Mobility Score	IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636)
NHSN	
CAUTI	National Healthcare Safety Network (NHSN) Catheter-Associated Urinary Tract Infection Outcome Measure (NQF #0138)
CDI	National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset <i>Clostridium difficile</i> Infection (CDI) Outcome Measure (NQF #1717)
HCP Influenza Vaccine	Influenza Vaccination Coverage among Healthcare Personnel (NQF #0431)
Claims-Based	
MSPB IRF	Medicare Spending Per Beneficiary (MSPB) –Post Acute Care (PAC) PAC IRF QRP
DTC	Discharge to Community–PAC IRF QRP
PPR 30 day	Potentially Preventable 30-Day Post-Discharge Readmission Measure for IRF QRP
PPR Within Stay	Potentially Preventable Within Stay Readmission Measure for IRFs

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D. IRF QRP Quality Measure Proposals Beginning With the FY 2022 IRF QRP

In this proposed rule, we are proposing to adopt two process

measures for the IRF QRP that would satisfy section 1899B(c)(1)(E)(ii) of the Act, which requires that the quality measures specified by the Secretary include measures with respect to the

quality measure domain titled “Accurately communicating the existence of and providing for the transfer of health information and care preferences of an individual to the individual, family caregiver of the individual, and providers of services furnishing items and services to the individual when the individual transitions from a post-acute care (PAC) provider to another applicable setting, including a different PAC provider, a hospital, a critical access hospital, or the home of the individual.” Given the length of this domain title, hereafter, we will refer to this quality measure domain as “Transfer of Health Information.”

The two measures we are proposing to adopt are: (1) Transfer of Health Information to the Provider–Post-Acute Care (PAC); and (2) Transfer of Health Information to the Patient–Post-Acute Care (PAC). Both of these proposed measures support our Meaningful Measures priority of promoting effective communication and coordination of care, specifically the Meaningful Measure area of the transfer of health information and interoperability.

In addition to the two measure proposals, we are proposing to update the specifications for the Discharge to Community–Post Acute Care (PAC) IRF QRP measure to exclude baseline nursing facility (NF) residents from the measure.

We are seeking public comment on each of these proposals.

1. Proposed Transfer of Health Information to the Provider–Post-Acute Care (PAC) Measure

The proposed Transfer of Health Information to the Provider–Post-Acute Care (PAC) Measure is a process-based measure that assesses whether or not a current reconciled medication list is given to the subsequent provider when a patient is discharged or transferred from his or her current PAC setting.

a. Background

In 2013, 22.3 percent of all acute hospital discharges were discharged to PAC settings, including 11 percent who were discharged to home under the care of a home health agency, and nine percent who were discharged to SNFs.² The proportion of patients being discharged from an acute care hospital to a PAC setting was greater among beneficiaries enrolled in Medicare fee-for-service (FFS). Among Medicare FFS patients discharged from an acute

hospital, 42 percent went directly to PAC settings. Of that 42 percent, 20 percent were discharged to a SNF, 18 percent were discharged to a home health agency (HHA), 3 percent were discharged to an IRF, and one percent were discharged to an LTCH.³ Of the Medicare FFS beneficiaries with an IRF stay in FYs 2016 and 2017, an estimated 10 percent were discharged or transferred to an acute care hospital, 51 percent discharged home with home health services, 16 percent discharged or transferred to a SNF, and one percent discharged or transferred to another PAC setting (for example, another IRF, a hospice, or an LTCH).⁴

The transfer and/or exchange of health information from one provider to another can be done verbally (for example, clinician-to-clinician communication in-person or by telephone), paper-based (for example, faxed or printed copies of records), and via electronic communication (for example, through a health information exchange network using an electronic health/medical record, and/or secure messaging). Health information, such as medication information, that is incomplete or missing increases the likelihood of a patient or resident safety risk, and is often life-threatening.^{5 6 7 8 9 10} Poor communication and coordination across health care settings contributes to patient complications, hospital readmissions, emergency department visits, and medication

errors.^{11 12 13 14 15 16 17 18 19 20}

Communication has been cited as the third most frequent root cause in sentinel events, which The Joint Commission defines²¹ as a patient safety event that results in death, permanent harm, or severe temporary harm. Failed or ineffective patient handoffs are estimated to play a role in 20 percent of serious preventable adverse events.²² When care transitions are enhanced through care coordination activities, such as expedited patient information flow, these activities can reduce duplication of care services and costs of care, resolve conflicting care plans, and prevent medical errors.^{23 24 25 26 27}

¹¹ Barnsteiner, J.H., “Medication Reconciliation: Transfer of medication information across settings—keeping it free from error,” *The American Journal of Nursing*, 2005, Vol. 105(3), pp. 31–36.

¹² Arbaje, A.I., Kansagara, D.L., Salanitro, A.H., Englander, H.L., Kripalani, S., Jencks, S.F., & Lindquist, L.A., “Regardless of age: Incorporating principles from geriatric medicine to improve care transitions for patients with complex needs,” *Journal of General Internal Medicine*, 2014, Vol. 29(6), pp. 932–939.

¹³ Jencks, S.F., Williams, M.V., & Coleman, E.A., “Rehospitalizations among patients in the Medicare fee-for-service program,” *New England Journal of Medicine*, 2009, Vol. 360(14), pp. 1418–1428.

¹⁴ Institute of Medicine. “Preventing medication errors: quality chasm series,” Washington, DC: The National Academies Press 2007. Available at <https://www.nap.edu/read/11623/chapter/1>.

¹⁵ Kitson, N.A., Price, M., Lau, F.Y., & Showler, G., “Developing a medication communication framework across continuums of care using the Circle of Care Modeling approach,” *BMC Health Services Research*, 2013, Vol. 13(1), pp. 1–10.

¹⁶ Mor, V., Intrator, O., Feng, Z., & Grabowski, D.C., “The revolving door of rehospitalization from skilled nursing facilities,” *Health Affairs*, 2010, Vol. 29(1), pp. 57–64.

¹⁷ Institute of Medicine. “Preventing medication errors: quality chasm series,” Washington, DC: The National Academies Press 2007. Available at <https://www.nap.edu/read/11623/chapter/1>.

¹⁸ Kitson, N.A., Price, M., Lau, F.Y., & Showler, G., “Developing a medication communication framework across continuums of care using the Circle of Care Modeling approach,” *BMC Health Services Research*, 2013, Vol. 13(1), pp. 1–10.

¹⁹ Forster, A.J., Murff, H.J., Peterson, J.F., Gandhi, T.K., & Bates, D.W., “The incidence and severity of adverse events affecting patients after discharge from the hospital,” *Annals of Internal Medicine*, 2003, 138(3), pp. 161–167.

²⁰ King, B.J., Gilmore-Bykovskiy, A.L., Roiland, R.A., Polnaszek, B.E., Bowers, B.J., & Kind, A.J. “The consequences of poor communication during transitions from hospital to skilled nursing facility: A qualitative study,” *Journal of the American Geriatrics Society*, 2013, Vol. 61(7), 1095–1102.

²¹ The Joint Commission, “Sentinel Event Policy” available at https://www.jointcommission.org/sentinel_event_policy_and_procedures/.

²² The Joint Commission. “Sentinel Event Data Root Causes by Event Type 2004–2015.” 2016. Available at https://www.jointcommission.org/assets/1/23/jonline_Mar_2_2016.pdf.

²³ Mor, V., Intrator, O., Feng, Z., & Grabowski, D.C., “The revolving door of rehospitalization from skilled nursing facilities,” *Health Affairs*, 2010, Vol. 29(1), pp. 57–64.

²⁴ Institute of Medicine. “Preventing medication errors: Quality chasm series,” Washington, DC: The

³ Ibid.

⁴ RTI International analysis of Medicare claims data for index stays in IRF 2016/2017. (RTI program reference: MM150).

⁵ Kwan, J.L., Lo, L., Sampson, M., & Shojania, K.G., “Medication reconciliation during transitions of care as a patient safety strategy: A systematic review,” *Annals of Internal Medicine*, 2013, Vol. 158(5), pp. 397–403.

⁶ Boockvar, K.S., Blum, S., Kugler, A., Livote, E., Mergenhagen, K.A., Nebeker, J.R., & Yeh, J., “Effect of admission medication reconciliation on adverse drug events from admission medication changes,” *Archives of Internal Medicine*, 2011, Vol. 171(9), pp. 860–861.

⁷ Bell, C.M., Brenner, S. S., Gunraj, N., Huo, C., Bierman, A.S., Scales, D.C., & Urbach, D.R., “Association of ICU or hospital admission with unintentional discontinuation of medications for chronic diseases,” *JAMA*, 2011, Vol. 306(8), pp. 840–847.

⁸ Basey, A.J., Krska, J., Kennedy, T.D., & Mackridge, A.J., “Prescribing errors on admission to hospital and their potential impact: A mixed-methods study,” *BMJ Quality & Safety*, 2014, Vol. 23(1), pp. 17–25.

⁹ Desai, R., Williams, C.E., Greene, S.B., Pierson, S., & Hansen, R.A., “Medication errors during patient transitions into nursing homes: Characteristics and association with patient harm,” *The American Journal of Geriatric Pharmacotherapy*, 2011, Vol. 9(6), pp. 413–422.

¹⁰ Boling, P.A., “Care transitions and home health care,” *Clinical Geriatric Medicine*, 2009, Vol.25(1), pp. 135–48.

² Tian, W. “An all-payer view of hospital discharge to post-acute care,” May 2016. Available at <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb205-Hospital-Discharge-Postacute-Care.jsp>.

Care transitions across health care settings have been characterized as complex, costly, and potentially hazardous, and may increase the risk for multiple adverse outcomes.^{28 29} The rising incidence of preventable adverse events, complications, and hospital readmissions have drawn attention to the importance of the timely transfer of health information and care preferences at the time of transition. Failures of care coordination, including poor communication of information, were estimated to cost the U.S. health care system between \$25 billion and \$45 billion in wasteful spending in 2011.³⁰ The communication of health information and patient care preferences is critical to ensuring safe and effective transitions from one health care setting to another.^{31 32}

National Academies Press, 2007. Available at <https://www.nap.edu/read/11623/chapter/1>.

²⁵ Starmer, A.J., Sectish, T. C., Simon, D.W., Keohane, C., McSweeney, M.E., Chung, E.Y., Yoon, C.S., Lipsitz, S.R., Wassner, A.J., Harper, M.B., & Landrigan, C.P., "Rates of medical errors and preventable adverse events among hospitalized children following implementation of a resident handoff bundle," *JAMA*, 2013, Vol. 310(21), pp. 2262–2270.

²⁶ Pronovost, P., M.M.E. Johns, S. Palmer, R.C. Bono, D.B. Fridsma, A. Gettinger, J. Goldman, W. Johnson, M. Karney, C. Samitt, R.D. Sriram, A. Zenooz, and Y.C. Wang, Editors. *Procuring Interoperability: Achieving High-Quality, Connected, and Person-Centered Care*. Washington, DC, 2018 National Academy of Medicine. Available at https://nam.edu/wp-content/uploads/2018/10/Procuring-Interoperability_web.pdf.

²⁷ Balaban RB, Weissman JS, Samuel PA, & Woolhandler, S., "Redefining and redesigning hospital discharge to enhance patient care: A randomized controlled study," *J Gen Intern Med*, 2008, Vol. 23(8), pp. 1228–33.

²⁸ Arbaje, A.I., Kansagara, D.L., Salanitro, A.H., Englander, H.L., Kripalani, S., Jencks, S.F., & Lindquist, L.A., "Regardless of age: Incorporating principles from geriatric medicine to improve care transitions for patients with complex needs," *Journal of General Internal Medicine*, 2014, Vol. 29(6), pp. 932–939.

²⁹ Simmons, S., Schnelle, J., Slagle, J., Sathe, N.A., Stevenson, D., Carlo, M., & McPheeters, M.L., "Resident safety practices in nursing home settings." Technical Brief No. 24 (Prepared by the Vanderbilt Evidence-based Practice Center under Contract No. 290–2015–00003–I.) AHRQ Publication No. 16–EHC022–EF. Rockville, MD: Agency for Healthcare Research and Quality. May 2016. Available at <https://www.ncbi.nlm.nih.gov/books/NBK384624/>.

³⁰ Berwick, D.M. & Hackbarth, A.D. "Eliminating Waste in US Health Care," *JAMA*, 2012, Vol. 307(14), pp.1513–1516.

³¹ McDonald, K.M., Sundaram, V., Bravata, D.M., Lewis, R., Lin, N., Kraft, S.A. & Owens, D.K. Care Coordination. Vol. 7 of: Shojania K.G., McDonald K.M., Wachter R.M., Owens D.K., editors. "Closing the quality gap: A critical analysis of quality improvement strategies." Technical Review 9 (Prepared by the Stanford University-UCSF Evidence-based Practice Center under contract 290–02–0017). AHRQ Publication No. 04(07)–0051–7. Rockville, MD: Agency for Healthcare Research and Quality. June 2006. Available at <https://www.ncbi.nlm.nih.gov/books/NBK44015/>.

³² Lattimer, C., "When it comes to transitions in patient care, effective communication can make all

the difference," *Generations*, 2011, Vol. 35(1), pp. 69–72.

Patients in PAC settings often have complicated medication regimens and require efficient and effective communication and coordination of care between settings, including detailed transfer of medication information.^{33 34 35} Individuals in PAC settings may be vulnerable to adverse health outcomes due to insufficient medication information on the part of their health care providers, and the higher likelihood for multiple comorbid chronic conditions, polypharmacy, and complicated transitions between care settings.^{36 37} Preventable adverse drug events (ADEs) may occur after hospital discharge in a variety of settings including PAC.³⁸ A 2014 Office of Inspector General report found that 10 percent of Medicare patients in IRFs experienced adverse events, with most of those events being medication related. Over 45 percent of the adverse events and temporary harm events were clearly or likely preventable.³⁹ Medication errors and one-fifth of ADEs occur during transitions between settings, including admission to or discharge from a hospital to home or a

the difference," *Generations*, 2011, Vol. 35(1), pp. 69–72.

³³ Starmer A.J., Spector N.D., Srivastava R., West, D.C., Rosenbluth, G., Allen, A.D., Noble, E.L., & Landrigan, C.P., "Changes in medical errors after implementation of a handoff program," *N Engl J Med*, 2014, Vol. 37(1), pp. 1803–1812.

³⁴ Kruse, C.S. Marquez, G., Nelson, D., & Polomares, O., "The use of health information exchange to augment patient handoff in long-term care: a systematic review," *Applied Clinical Informatics*, 2018, Vol. 9(4), pp. 752–771.

³⁵ Brody, A.A., Gibson, B., Tresner-Kirsch, D., Kramer, H., Thraen, I., Coarr, M.E., & Rupper, R., "High prevalence of medication discrepancies between home health referrals and Centers for Medicare and Medicaid Services home health certification and plan of care and their potential to affect safety of vulnerable elderly adults," *Journal of the American Geriatrics Society*, 2016, Vol. 64(11), pp. e166–e170.

³⁶ Chhabra, P.T., Rattinger, G.B., Dutcher, S.K., Hare, M.E., Parsons, K.L., & Zuckerman, I.H., "Medication reconciliation during the transition to and from long-term care settings: a systematic review," *Res Social Adm Pharm*, 2012, Vol. 8(1), pp. 60–75.

³⁷ Levinson, D.R., & General, I., "Adverse events in skilled nursing facilities: national incidence among Medicare beneficiaries." Washington, DC: U.S. Department of Health and Human Services, Office of the Inspector General, February 2014. Available at <https://oig.hhs.gov/oei/reports/oei-06-11-00370.pdf>.

³⁸ Battles J., Azam I., Grady M., & Reback K., "Advances in patient safety and medical liability," AHRQ Publication No. 17–0017–EF. Rockville, MD: Agency for Healthcare Research and Quality, August 2017. Available at https://www.ahrq.gov/sites/default/files/publications/files/advances-complete_3.pdf.

³⁹ Health and Human Services Office of Inspector General. *Adverse Events in Rehabilitation Hospitals: National Incidence Among Medicare Beneficiaries*. (OEI–06–14–00110). 2018. Available at <https://oig.hhs.gov/oei/reports/oei-06-14-00110.asp>.

PAC setting, or transfer between hospitals.^{40 41}

Patients in PAC settings are often taking multiple medications. Consequently, PAC providers regularly are in the position of starting complex new medication regimens with little knowledge of the patients or their medication history upon admission. Furthermore, inter-facility communication barriers delay resolving medication discrepancies during transitions of care.⁴² Medication discrepancies are common,⁴³ and found to occur in 86 percent of all transitions, increasing the likelihood of ADEs.^{44 45 46} Up to 90 percent of patients experience at least one medication discrepancy in the transition from hospital to home care, and discrepancies occur within all therapeutic classes of medications.^{47 48}

Transfer of a medication list between providers is necessary for medication reconciliation interventions, which have been shown to be a cost-effective way to avoid ADEs by reducing errors,^{49 50 51}

⁴⁰ Barnsteiner, J.H., "Medication Reconciliation: Transfer of medication information across settings—keeping it free from error," *The American Journal of Nursing*, 2005, Vol. 105(3), pp. 31–36.

⁴¹ Gleason, K.M., Groszek, J.M., Sullivan, C., Rooney, D., Barnard, C., Noskin, G.A., "Reconciliation of discrepancies in medication histories and admission orders of newly hospitalized patients," *American Journal of Health System Pharmacy*, 2004, Vol. 61(16), pp. 1689–1694.

⁴² Patterson M., Foust J.B., Bollinger, S., Coleman, C., Nguyen, D., "Inter-facility communication barriers delay resolving medication discrepancies during transitions of care," *Research in Social & Administrative Pharmacy* (2018), doi: 10.1016/j.sapharm.2018.05.124.

⁴³ Manias, E., Annaikis, N., Considine, J., Weerasuriya, R., & Kusljic, S. "Patient-, medication- and environment-related factors affecting medication discrepancies in older patients," *Collegian*, 2017, Vol. 24, pp. 571–577.

⁴⁴ Tjia, J., Bonner, A., Briesacher, B.A., McGee, S., Terrill, E., Miller, K., "Medication discrepancies upon hospital to skilled nursing facility transitions," *J Gen Intern Med*, 2009, Vol. 24(5), pp. 630–635.

⁴⁵ Sinvani, L.D., Beizer, J., Akerman, M., Pekmezaris, R., Nouryan, C., Lutsky, L., Cal, C., Dlugacz, Y., Masick, K., Wolf-Klein, G., "Medication reconciliation in continuum of care transitions: a moving target," *J Am Med Dir Assoc*, 2013, Vol. 14(9), 668–672.

⁴⁶ Coleman E.A., Parry C., Chalmers S., & Min, S.J., "The Care Transitions Intervention: results of a randomized controlled trial," *Arch Intern Med*, 2006, Vol. 166, pp. 1822–28.

⁴⁷ Corbett C.L., Setter S. M., Neumiller J.J., & Wood, L.D., "Nurse identified hospital to home medication discrepancies: implications for improving transitional care," *Geriatr Nurs*, 2011, Vol. 31(3), pp. 188–96.

⁴⁸ Setter S.M., Corbett C.F., Neumiller J.J., Gates, B.J., Sclar, D.A., & Sonnett, T.E., "Effectiveness of a pharmacist-nurse intervention on resolving medication discrepancies in older patients transitioning from hospital to home care: impact of a pharmacy/nursing intervention," *Am J Health Syst Pharm*, 2009, Vol. 66, pp. 2027–31.

⁴⁹ Boockvar, K.S., Blum, S., Kugler, A., Livote, E., Mergenhagen, K.A., Nebeker, J.R., & Yeh, J., "Effect

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especially when medications are reviewed by a pharmacist using electronic medical records.⁵²

b. Stakeholder and Technical Expert Panel (TEP) Input

The proposed measure was developed after consideration of feedback we received from stakeholders and four TEPs convened by our contractors. Further, the proposed measure was developed after evaluation of data collected during two pilot tests we conducted in accordance with the CMS Measures Management System Blueprint.

Our measure development contractors constituted a TEP which met on September 27, 2016⁵³, January 27, 2017, and August 3, 2017⁵⁴ to provide input on a prior version of this measure. Based on this input, we updated the measure concept in late 2017 to include the transfer of a specific component of health information—medication information. Our measure development contractors reconvened this TEP on April 20, 2018 for the purpose of obtaining expert input on the proposed

measure, including the measure's reliability, components of face validity, and feasibility of being implemented across PAC settings. Overall, the TEP was supportive of the proposed measure, affirming that the measure provides an opportunity to improve the transfer of medication information. A summary of the April 20, 2018 TEP proceedings titled "Transfer of Health Information TEP Meeting 4—June 2018" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Our measure development contractors solicited stakeholder feedback on the proposed measure by requesting comment on the CMS Measures Management System Blueprint website, and accepted comments that were submitted from March 19, 2018 to May 3, 2018. The comments received expressed overall support for the measure. Several commenters suggested ways to improve the measure, primarily related to what types of information should be included at transfer. We incorporated this input into development of the proposed measure. The summary report for the March 19 to May 3, 2018 public comment period titled "IMPACT Medication Profile Transferred Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

c. Pilot Testing

The proposed measure was tested between June and August 2018 in a pilot test that involved 24 PAC facilities/agencies, including five IRFs, six SNFs, six LTCHs, and seven HHAs. The 24 pilot sites submitted a total of 801 records. Analysis of agreement between coders within each participating facility (266 qualifying pairs) indicated a 93 percent agreement for this measure. Overall, pilot testing enabled us to verify its reliability, components of face validity, and feasibility of being implemented across PAC settings. Further, more than half of the sites that participated in the pilot test stated during the debriefing interviews that the measure could distinguish facilities or agencies with higher quality medication information transfer from those with lower quality medication information transfer at discharge. The pilot test summary report titled "Transfer of Health Information 2018 Pilot Test

Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

d. Measure Applications Partnership (MAP) Review and Related Measures

We included the proposed measure in the IRF QRP section of the 2018 Measures Under Consideration (MUC) list. The MAP conditionally supported this measure pending NQF endorsement, noting that the measure can promote the transfer of important medication information. The MAP also suggested that CMS consider a measure that can be adapted to capture bi-directional information exchange, and recommended that the medication information transferred include important information about supplements and opioids. More information about the MAP's recommendations for this measure is available at http://www.qualityforum.org/Publications/2019/02/MAP_2019_Considerations_for_Implementing_Measures_Final_Report_-_PAC-LTC.aspx.

As part of the measure development and selection process, we also identified one NQF-endorsed quality measure similar to the proposed measure, titled Documentation of Current Medications in the Medical Record (NQF #0419, CMS eCQM ID: CMS68v8). This measure was adopted as one of the recommended adult core clinical quality measures for eligible professionals for the EHR Incentive Program beginning in 2014 and was also adopted under the Merit-based Incentive Payment System (MIPS) quality performance category beginning in 2017. The measure is calculated based on the percentage of visits for patients aged 18 years and older for which the eligible professional or eligible clinician attests to documenting a list of current medications using all resources immediately available on the date of the encounter.

The proposed Transfer of Health Information to the Provider-Post-Acute Care (PAC) measure addresses the transfer of information whereas the NQF-endorsed measure #0419 assesses the documentation of medications, but not the transfer of such information. This is important as the proposed measure assesses for the transfer of medication information for the proposed measure calculation. Further, the proposed measure utilizes standardized patient assessment data elements (SPADEs), which is a

of admission medication reconciliation on adverse drug events from admission medication changes," Archives of Internal Medicine, 2011, Vol. 171(9), pp. 860–861.

⁵⁰ Kwan, J.L., Lo, L., Sampson, M., & Shojania, K.G., "Medication reconciliation during transitions of care as a patient safety strategy: a systematic review," Annals of Internal Medicine, 2013, Vol. 158(5), pp. 397–403.

⁵¹ Chhabra, P.T., Rattinger, G.B., Dutcher, S.K., Hare, M.E., Parsons, K.L., & Zuckerman, I.H., "Medication reconciliation during the transition to and from long-term care settings: a systematic review," Res Social Adm Pharm, 2012, Vol. 8(1), pp. 60–75.

⁵² Agrawal A., Wu WY. "Reducing medication errors and improving systems reliability using an electronic medication reconciliation system," The Joint Commission Journal on Quality and Patient Safety, 2009, Vol. 35(2), pp. 106–114.

⁵³ Technical Expert Panel Summary Report: Development of two quality measures to satisfy the Improving Medicare Post-Acute Care Transformation Act of 2014 (IMPACT Act) Domain of Transfer of health Information and Care Preferences When an Individual Transitions to Skilled Nursing Facilities (SNFs), Inpatient Rehabilitation Facilities (IRFs), Long Term Care Hospitals (LTCHs) and Home Health Agencies (HHAs). Available at https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/Downloads/Transfer-of-Health-Information-TEP-Summary_Report_Final-June-2017.pdf.

⁵⁴ Technical Expert Panel Summary Report: Development of two quality measures to satisfy the Improving Medicare Post-Acute Care Transformation Act of 2014 (IMPACT Act) Domain of Transfer of health Information and Care Preferences When an Individual Transitions to Skilled Nursing Facilities (SNFs), Inpatient Rehabilitation Facilities (IRFs), Long Term Care Hospitals (LTCHs) and Home Health Agencies (HHAs). Available at https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/Downloads/Transfer-of-Health-Information-TEP-Meetings-2-3-Summary-Report_Final_Feb2018.pdf.

requirement for measures specified under the Transfer of Health Information measure domain under section 1899B(c)(1)(E) of the Act, whereas NQF #0419 does not.

After review of the NQF-endorsed measure, we determined that the proposed Transfer of Health Information to the Provider-Post-Acute Care (PAC) measure better addresses the Transfer of Health Information measure domain, which requires that at least some of the data used to calculate the measure be collected as standardized patient assessment data through the post-acute care assessment instruments. Section 1886(j)(7)(D)(i) of the Act requires that any measure specified by the Secretary be endorsed by the entity with a contract under section 1890(a) of the Act, which is currently the National Quality Form (NQF). However, when a feasible and practical measure has not been NQF endorsed for a specified area or medical topic determined appropriate by the Secretary, section 1886(j)(7)(D)(ii) of the Act allows the Secretary to specify a measure that is not NQF endorsed as long as due consideration is given to the measures that have been endorsed or adopted by a consensus organization identified by the Secretary. For the reasons discussed previously, we believe that there is currently no feasible NQF-endorsed measure that we could adopt under section 1886(j)(7)(D)(ii) of the Act. However, we note that we intend to submit the proposed measure to the NQF for consideration of endorsement when feasible.

e. Quality Measure Calculation

The proposed Transfer of Health Information to the Provider-Post-Acute Care (PAC) quality measure is calculated as the proportion of patient stays with a discharge assessment indicating that a current reconciled medication list was provided to the subsequent provider at the time of discharge. The proposed measure denominator is the total number of IRF patient stays ending in discharge to a subsequent provider, which is defined as a short-term general acute-care hospital, intermediate care (intellectual and developmental disabilities providers), home under care of an organized home health service organization or hospice, hospice in an institutional facility, a SNF, an LTCH, another IRF, an inpatient psychiatric facility, or a CAH. These health care providers were selected for inclusion in the denominator because they are identified as subsequent providers on the discharge destination item that is currently included on the IRF patient

assessment instrument (IRF-PAI). The proposed measure numerator is the number of IRF patient stays with an IRF-PAI discharge assessment indicating a current reconciled medication list was provided to the subsequent provider at the time of discharge. For additional technical information about this proposed measure, we refer readers to the document titled, "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>. The data source for the proposed quality measure is the IRF-PAI assessment instrument for IRF patients.

For more information about the data submission requirements we are proposing for this measure, we refer readers to section VIII.G.3. of this proposed rule.

2. Proposed Transfer of Health Information to the Patient-Post-Acute Care (PAC) Measure

Beginning with the FY 2022 IRF QRP, we are proposing to adopt the Transfer of Health Information to the Patient—Post Acute Care (PAC) measure, a measure that satisfies the IMPACT Act domain of Transfer of Health Information, with data collection for discharges beginning October 1, 2020. This process-based measure assesses whether or not a current reconciled medication list was provided to the patient, family, or caregiver when the patient was discharged from a PAC setting to a private home/apartment, a board and care home, assisted living, a group home, transitional living or home under care of an organized home health service organization, or a hospice.

a. Background

In 2013, 22.3 percent of all acute hospital discharges were discharged to PAC settings, including 11 percent who were discharged to home under the care of a home health agency.⁵⁵ Of the Medicare FFS beneficiaries with an IRF stay in fiscal years 2016 and 2017, an estimated 51 percent were discharged home with home health services, 21 percent were discharged home with self-

care, and .5 percent were discharged with home hospice services.⁵⁶

The communication of health information, such as a reconciled medication list, is critical to ensuring safe and effective patient transitions from health care settings to home and/or other community settings. Incomplete or missing health information, such as medication information, increases the likelihood of a patient safety risk, often life-threatening.^{57 58 59 60 61} Individuals who use PAC care services are particularly vulnerable to adverse health outcomes due to their higher likelihood of having multiple comorbid chronic conditions, polypharmacy, and complicated transitions between care settings.^{62 63} Upon discharge to home, individuals in PAC settings may be faced with numerous medication changes, new medication regimes, and follow-up details.^{64 65 66} The efficient

⁵⁶ RTI International analysis of Medicare claims data for index stays in IRF 2016/2017. (RTI program reference: MM150).

⁵⁷ Kwan, J.L., Lo, L., Sampson, M., & Shojania, K.G., "Medication reconciliation during transitions of care as a patient safety strategy: a systematic review," *Annals of Internal Medicine*, 2013, Vol. 158(5), pp. 397–403.

⁵⁸ Boockvar, K.S., Blum, S., Kugler, A., Livote, E., Mergenhagen, K.A., Nebeker, J.R., & Yeh, J., "Effect of admission medication reconciliation on adverse drug events from admission medication changes," *Archives of Internal Medicine*, 2011, Vol. 171(9), pp. 860–861.

⁵⁹ Bell, C.M., Brenner, S.S., Gunraj, N., Huo, C., Bierman, A.S., Scales, D.C., & Urbach, D.R., "Association of ICU or hospital admission with unintentional discontinuation of medications for chronic diseases," *JAMA*, 2011, Vol. 306(8), pp. 840–847.

⁶⁰ Basey, A.J., Kraska, J., Kennedy, T.D., & Mackridge, A.J., "Prescribing errors on admission to hospital and their potential impact: a mixed-methods study," *BMJ Quality & Safety*, 2014, Vol. 23(1), pp. 17–25.

⁶¹ Desai, R., Williams, C.E., Greene, S.B., Pierson, S., & Hansen, R.A., "Medication errors during patient transitions into nursing homes: characteristics and association with patient harm," *The American Journal of Geriatric Pharmacotherapy*, 2011, Vol. 9(6), pp. 413–422.

⁶² Brody, A.A., Gibson, B., Tresner-Kirsch, D., Kramer, H., Thraen, I., Coarr, M.E., & Rupper, R., "High prevalence of medication discrepancies between home health referrals and Centers for Medicare and Medicaid Services home health certification and plan of care and their potential to affect safety of vulnerable elderly adults," *Journal of the American Geriatrics Society*, 2016, Vol. 64(11), pp. e166–e170.

⁶³ Chhabra, P.T., Rattinger, G.B., Dutcher, S.K., Hare, M.E., Parsons, K.L., & Zuckerman, I.H., "Medication reconciliation during the transition to and from long-term care settings: a systematic review," *Res Social Adm Pharm*, 2012, Vol. 8(1), pp. 60–75.

⁶⁴ Brody, A.A., Gibson, B., Tresner-Kirsch, D., Kramer, H., Thraen, I., Coarr, M.E., & Rupper, R., "High prevalence of medication discrepancies between home health referrals and Centers for Medicare and Medicaid Services home health certification and plan of care and their potential to affect safety of vulnerable elderly adults," *Journal*

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⁵⁵ Tian, W., "An all-payer view of hospital discharge to postacute care," May 2016. Available at <https://www.hcup-us.ahrq.gov/reports/statbriefs/sb205-Hospital-Discharge-Postacute-Care.jsp>.

and effective communication and coordination of medication information may be critical to prevent potentially deadly adverse effects. When care coordination activities enhance care transitions, these activities can reduce duplication of care services and costs of care, resolve conflicting care plans, and prevent medical errors.^{67 68}

Finally, the transfer of a patient's discharge medication information to the patient, family, or caregiver is common practice and supported by discharge planning requirements for participation in Medicare and Medicaid programs.^{69 70} Most PAC EHR systems generate a discharge medication list to promote patient participation in medication management, which has been shown to be potentially useful for improving patient outcomes and transitional care.⁷¹

b. Stakeholder and Technical Expert Panel (TEP) Input

The proposed measure was developed after consideration of feedback we received from stakeholders and four TEPs convened by our contractors. Further, the proposed measure was developed after evaluation of data

of the American Geriatrics Society, 2016, Vol. 64(11), pp. e166–e170.

⁶⁵ Bell, C.M., Brenner, S.S., Gunraj, N., Huo, C., Bierman, A.S., Scales, D.C., & Urbach, D.R., "Association of ICU or hospital admission with unintentional discontinuation of medications for chronic diseases," *JAMA*, 2011, Vol. 306(8), pp. 840–847.

⁶⁶ Sheehan, O.C., Kharrazi, H., Carl, K.J., Leff, B., Wolff, J.L., Roth, D.L., Gabbard, J., & Boyd, C.M., "Helping older adults improve their medication experience (HOME) by addressing medication regimen complexity in home healthcare," *Home Healthcare Now*, 2018, Vol. 36(1) pp. 10–19.

⁶⁷ Mor, V., Intrator, O., Feng, Z., & Grabowski, D.C., "The revolving door of rehospitalization from skilled nursing facilities," *Health Affairs*, 2010, Vol. 29(1), pp. 57–64.

⁶⁸ Starmer, A.J., Sectish, T.C., Simon, D.W., Keohane, C., McSweeney, M.E., Chung, E.Y., Yoon, C.S., Lipsitz, S.R., Wassner, A.J., Harper, M.B., & Landrigan, C.P., "Rates of medical errors and preventable adverse events among hospitalized children following implementation of a resident handoff bundle," *JAMA*, 2013, Vol. 310(21), pp. 2262–2270.

⁶⁹ CMS, "Revision to state operations manual (SOM), Hospital Appendix A—Interpretive Guidelines for 42 CFR 482.43, Discharge Planning" May 17, 2013. Available at <https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/SurveyCertificationGenInfo/Downloads/Survey-and-Cert-Letter-13-32.pdf>.

⁷⁰ The State Operations Manual Guidance to Surveyors for Long Term Care Facilities (Guidance § 483.21(c)(1) Rev. 11–22–17) for discharge planning process. Available at https://www.cms.gov/Regulations-and-Guidance/Guidance/Manuals/downloads/som107ap_pp_guidelines_tcf.pdf.

⁷¹ Toles, M., Colon-Emeric, C., Naylor, M.D., Asafu-Adjei, J., Hanson, L.C., "Connect-home: transitional care of skilled nursing facility patients and their caregivers," *Am Geriatr Soc.*, 2017, Vol. 65(10), pp. 2322–2328.

collected during two pilot tests we conducted in accordance with the CMS Measures Management System Blueprint.

Our measure development contractors constituted a TEP which met on September 27, 2016,⁷² January 27, 2017, and August 3, 2017⁷³ to provide input on a prior version of this measure. Based on this input, we updated the measure concept in late 2017 to include the transfer of a specific component of health information—medication information. Our measure development contractors reconvened this TEP on April 20, 2018 to seek expert input on the measure. Overall, the TEP members supported the proposed measure, affirming that the measure provides an opportunity to improve the transfer of medication information. Most of the TEP members believed that the measure could improve the transfer of medication information to patients, families, and caregivers. Several TEP members emphasized the importance of transferring information to patients and their caregivers in a clear manner using plain language. A summary of the April 20, 2018 TEP proceedings titled "Transfer of Health Information TEP Meeting 4—June 2018" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Our measure development contractors solicited stakeholder feedback on the proposed measure by requesting comment on the CMS Measures Management System Blueprint website, and accepted comments that were submitted from March 19, 2018 to May

⁷² Technical Expert Panel Summary Report: Development of two quality measures to satisfy the Improving Medicare Post-Acute Care Transformation Act of 2014 (IMPACT Act) Domain of Transfer of health Information and Care Preferences When an Individual Transitions to Skilled Nursing Facilities (SNFs), Inpatient Rehabilitation Facilities (IRFs), Long Term Care Hospitals (LTCHs) and Home Health Agencies (HHAs). Available at https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/Downloads/Transfer-of-Health-Information-TEP-Summary_Report_Final-June-2017.pdf.

⁷³ Technical Expert Panel Summary Report: Development of two quality measures to satisfy the Improving Medicare Post-Acute Care Transformation Act of 2014 (IMPACT Act) Domain of Transfer of health Information and Care Preferences When an Individual Transitions to Skilled Nursing Facilities (SNFs), Inpatient Rehabilitation Facilities (IRFs), Long Term Care Hospitals (LTCHs) and Home Health Agencies (HHAs). Available at https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/Downloads/Transfer-of-Health-Information-TEP-Meetings-2-3-Summary-Report_Final_Feb2018.pdf.

3, 2018. Several commenters noted the importance of ensuring that the instruction provided to patients and caregivers is clear and understandable to promote transparent access to medical record information and meet the goals of the IMPACT Act. The summary report for the March 19 to May 3, 2018 public comment period titled "IMPACT-Medication Profile Transferred Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

c. Pilot Testing

Between June and August 2018, we held a pilot test involving 24 PAC facilities/agencies, including five IRFs, six SNFs, six LTCHs, and seven HHAs. The 24 pilot sites submitted a total of 801 assessments. Analysis of agreement between coders within each participating facility (241 qualifying pairs) indicated an 87 percent agreement for this measure. Overall, pilot testing enabled us to verify its reliability, components of face validity, and feasibility of being implemented across PAC settings. Further, more than half of the sites that participated in the pilot test stated, during debriefing interviews, that the measure could distinguish facilities or agencies with higher quality medication information transfer from those with lower quality medication information transfer at discharge. The pilot test summary report titled "Transfer of Health Information 2018 Pilot Test Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

d. Measure Applications Partnership (MAP) Review and Related Measures

We included the proposed measure in the IRF QRP section of the 2018 MUC list. The MAP conditionally supported this measure pending NQF endorsement, noting that the measure can promote the transfer of important medication information to the patient. The MAP recommended that providers transmit medication information to patients that is easy to understand because health literacy can impact a person's ability to take medication as directed. More information about the MAP's recommendations for this measure is available at <http://www.qualityforum.org/Publications/>

2019/02/MAP_2019_Considerations_for_Implementing_Measures_Final_Report_-_PAC-LTC.aspx.

Section 1886(j)(7)(D)(i) of the Act, requires that any measure specified by the Secretary be endorsed by the entity with a contract under section 1890(a) of the Act, which is currently the NQF. However, when a feasible and practical measure has not been NQF endorsed for a specified area or medical topic determined appropriate by the Secretary, section 1886(j)(7)(D)(ii) of the Act allows the Secretary to specify a measure that is not NQF endorsed as long as due consideration is given to the measures that have been endorsed or adopted by a consensus organization identified by the Secretary. Therefore, in the absence of any NQF-endorsed measures that address the proposed Transfer of Health Information to the Patient—Post-Acute Care (PAC), which requires that at least some of the data used to calculate the measure be collected as standardized patient assessment data through post-acute care assessment instruments, we believe that there is currently no feasible NQF-endorsed measure that we could adopt under section 1886(j)(7)(D)(ii) of the Act. However, we note that we intend to submit the proposed measure to the NQF for consideration of endorsement when feasible.

e. Quality Measure Calculation

The calculation of the proposed Transfer of Health Information to the Patient—Post-Acute Care (PAC) measure would be based on the proportion of patient stays with a discharge assessment indicating that a current reconciled medication list was provided to the patient, family, or caregiver at the time of discharge.

The proposed measure denominator is the total number of IRF patient stays ending in discharge to a private home/apartment, a board and care home, assisted living, a group home, transitional living or home under care of an organized home health service organization, or a hospice. These locations were selected for inclusion in the denominator because they are identified as home locations on the discharge destination item that is currently included on the IRF–PAI. The proposed measure numerator is the number of IRF patient stays with an IRF–PAI discharge assessment indicating a current reconciled medication list was provided to the patient, family, or caregiver at the time of discharge. For technical information about this proposed measure, we refer readers to the document titled

“Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>. Data for the proposed quality measure would be calculated using data from the IRF–PAI assessment instrument for IRF patients.

For more information about the data submission requirements we are proposing for this measure, we refer readers to section VIII.G.3. of this proposed rule.

3. Proposed Update to the Discharge to Community—Post Acute Care (PAC) Inpatient Rehabilitation Facility (IRF) Quality Reporting Program (QRP) Measure

We are proposing to update the specifications for the Discharge to Community—PAC IRF QRP measure to exclude baseline nursing facility (NF) residents from the measure. This measure reports an IRF’s risk-standardized rate of Medicare FFS patients who are discharged to the community following an IRF stay, do not have an unplanned readmission to an acute care hospital or LTCH in the 31 days following discharge to community, and who remain alive during the 31 days following discharge to community. We adopted this measure in the FY 2017 IRF PPS final rule (81 FR 52095 through 52103).

In the FY 2017 IRF PPS final rule (81 FR 52099), we addressed public comments recommending exclusion of IRF patients who were baseline NF residents, as these patients lived in a NF prior to their IRF stay, as these patients may not be expected to return to the community following their IRF stay. In the FY 2018 IRF PPS final rule (82 FR 36285), we addressed public comments expressing support for a potential future modification of the measure that would exclude baseline NF residents; commenters stated that the exclusion would result in the measure more accurately portraying quality of care provided by IRFs, while controlling for factors outside of IRF control.

We assessed the impact of excluding baseline NF residents from the measure using CY 2015 and CY 2016 data, and found that this exclusion impacted both patient- and facility-level discharge to community rates. We defined baseline NF residents as IRF patients who had a long-term NF stay in the 180 days preceding their hospitalization and IRF stay, with no intervening community

discharge between the NF stay and qualifying hospitalization for measure inclusion. Baseline NF residents represented 0.3 percent of the measure population after all measure exclusions were applied. Observed patient-level discharge to community rates were significantly lower for baseline NF residents (20.82 percent) compared with non-NF residents (64.52 percent). The national observed patient-level discharge to community rate was 64.41 percent when baseline NF residents were included in the measure, increasing to 64.52 percent when they were excluded from the measure. After excluding baseline NF residents, 26.9 percent of IRFs had an increase in their risk-standardized discharge to community rate that exceeded the increase in the national observed patient-level discharge to community rate.

Based on public comments received and our impact analysis, we are proposing to exclude baseline NF residents from the Discharge to Community—PAC IRF QRP measure beginning with the FY 2020 IRF QRP, with baseline NF residents defined as IRF patients who had a long-term NF stay in the 180 days preceding their hospitalization and IRF stay, with no intervening community discharge between the NF stay and hospitalization.

For additional technical information regarding the Discharge to Community—PAC IRF QRP measure, including technical information about the proposed exclusion, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We invite public comment on this proposal.

E. IRF QRP Quality Measures, Measure Concepts, and Standardized Patient Assessment Data Elements Under Consideration for Future Years: Request for Information

We are seeking input on the importance, relevance, appropriateness, and applicability of each of the measures, standardized patient assessment data elements (SPADEs), and concepts under consideration listed in the Table 19 for future years in the IRF QRP.

TABLE 19—FUTURE MEASURES, MEASURE CONCEPTS, AND STANDARDIZED PATIENT ASSESSMENT DATA ELEMENTS (SPADES) UNDER CONSIDERATION FOR THE IRF QRP

Quality Measures and Measure Concepts
Opioid use and frequency. Exchange of Electronic Health Information and Interoperability.
Standardized Patient Assessment Data Elements (SPADES)
Cognitive complexity, such as executive function and memory. Dementia. Bladder and bowel continence including appliance use and episodes of incontinence. Care preferences, advance care directives, and goals of care. Caregiver Status. Veteran Status. Health disparities and risk factors, including education, sex and gender identity, and sexual orientation.

While we will not be responding to specific comments submitted in response to this Request for Information in the FY 2020 IRF PPS final rule, we intend to use this input to inform our future measure and SPADE development efforts.

F. Proposed Standardized Patient Assessment Data Reporting Beginning With the FY 2022 IRF QRP

Section 1886(j)(7)(F)(ii) of the Act requires that, for fiscal years 2019 and each subsequent year, IRFs must report standardized patient assessment data (SPADE), required under section 1899B(b)(1) of the Act. Section 1899B(a)(1)(C) of the Act requires, in part, the Secretary to modify the PAC assessment instruments in order for PAC providers, including IRFs, to submit SPADEs under the Medicare program. Section 1899B(b)(1)(A) of the Act requires PAC providers to submit SPADEs under applicable reporting provisions (which, for IRFs, is the IRF QRP) with respect to the admission and discharge of an individual (and more frequently as the Secretary deems appropriate), and section 1899B(b)(1)(B) of the Act defines standardized patient assessment data as data required for at least the quality measures described in section 1899B(c)(1) and that is with respect to the following categories: (1) Functional status, such as mobility and self-care at admission to a PAC provider and before discharge from a PAC provider; (2) cognitive function, such as ability to express ideas and to understand, and mental status, such as depression and dementia; (3) special services, treatments, and interventions, such as need for ventilator use, dialysis, chemotherapy, central line placement, and total parenteral nutrition; (4) medical conditions and comorbidities, such as diabetes, congestive heart failure, and pressure ulcers; (5) impairments, such as incontinence and

an impaired ability to hear, see, or swallow, and (6) other categories deemed necessary and appropriate by the Secretary.

In the FY 2018 IRF PPS proposed rule (82 FR 20722 through 20739), we proposed to adopt SPADEs that would satisfy the first five categories. In the FY 2018 IRF PPS final rule (82 FR 36287 through 36289), we summarized comments that supported our adoption of SPADEs, including support for our broader standardization goal and support for the clinical usefulness of specific proposed SPADEs. However, we did not finalize the majority of our SPADE proposals in recognition of the concern raised by many commenters that we were moving too fast to adopt the SPADEs and modify our assessment instruments in light of all of the other requirements we were also adopting under the IMPACT Act at that time (82 FR 36292 through 36294). In addition, commenters expressed that we should conduct further testing of the data elements we have proposed (82 FR 36288).

However, we finalized the adoption of SPADEs for two of the categories described in section 1899B(b)(1)(B) of the Act: (1) Functional status: Data elements currently reported by IRFs to calculate the measure Application of Percent of Long-Term Care Hospital Patients with an Admission and Discharge Functional Assessment and a Care Plan That Addresses Function (NQF #2631); and (2) Medical conditions and comorbidities: The data elements used to calculate the pressure ulcer measures, Percent of Residents or Patients with Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) and the replacement measure, Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury. We stated that these data elements were important for care planning, known to be valid and reliable, and already being reported by

IRFs for the calculation of quality measures.

Since we issued the FY 2018 IRF PPS final rule, IRFs have had an opportunity to familiarize themselves with other new reporting requirements that we have adopted under the IMPACT Act. We have also conducted further testing of the SPADEs, as described more fully below, and believe that this testing supports the use of the SPADEs in our PAC assessment instruments. Therefore, we are now proposing to adopt many of the same SPADEs that we previously proposed to adopt, along with other SPADEs.

We are proposing that IRFs would be required to report these SPADEs beginning with the FY 2022 IRF QRP. If finalized as proposed, IRFs would be required to report these data with respect to admission and discharge for patients discharged between October 1, 2020, and December 31, 2020 for the FY 2022 IRF QRP. Beginning with the FY 2023 IRF QRP, we propose that IRFs must report data with respect to admissions and discharges that occur during the subsequent calendar year (for example, CY 2021 for the FY 2023 IRF QRP, CY 2022 for the FY 2024 IRF QRP).

We are also proposing that IRFs that submit the Hearing, Vision, Race, and Ethnicity SPADEs with respect to admission only will be deemed to have submitted those SPADEs with respect to both admission and discharge, because it is unlikely that the assessment of those SPADEs at admission will differ from the assessment of the same SPADEs at discharge.

In selecting the proposed SPADEs below, we considered the burden of assessment-based data collection and aimed to minimize additional burden by evaluating whether any data that is currently collected through one or more PAC assessment instruments could be collected as SPADE. In selecting the

proposed SPADEs below, we also took into consideration the following factors with respect to each data element:

- (1) Overall clinical relevance;
- (2) Interoperable exchange to facilitate care coordination during transitions in care;
- (3) Ability to capture medical complexity and risk factors that can inform both payment and quality; and
- (4) Scientific reliability and validity, general consensus agreement for its usability.

In identifying the SPADEs proposed below, we additionally drew on input from several sources, including TEPs held by our data element contractor, public input, and the results of a recent National Beta Test of candidate data elements conducted by our data element contractor (hereafter “National Beta Test”).

The National Beta Test collected data from 3,121 patients and residents across 143 LTCHs, SNFs, IRFs, and HHAs from November 2017 to August 2018 to evaluate the feasibility, reliability, and validity of the candidate data elements across PAC settings. The National Beta Test also gathered feedback on the candidate data elements from staff who administered the test protocol in order to understand usability and workflow of the candidate data elements. More information on the methods, analysis plan, and results for the National Beta Test can be found in the document titled, “Development and Evaluation of Candidate Standardized Patient Assessment Data Elements: Findings from the National Beta Test (Volume 2),” available in the document titled, “Development and Evaluation of Candidate Standardized Patient Assessment Data Elements: Findings from the National Beta Test (Volume 2),” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Further, to inform the proposed SPADEs, we took into account feedback from stakeholders, as well as from technical and clinical experts, including feedback on whether the candidate data elements would support the factors described above. Where relevant, we also took into account the results of the Post-Acute Care Payment Reform Demonstration (PAC PRD) that took place from 2006 to 2012.

G. Proposed Standardized Patient Assessment Data by Category

1. Cognitive Function and Mental Status Data

A number of underlying conditions, including dementia, stroke, traumatic brain injury, side effects of medication, metabolic and/or endocrine imbalances, delirium, and depression, can affect cognitive function and mental status in PAC patient and resident populations.⁷⁴ The assessment of cognitive function and mental status by PAC providers is important because of the high percentage of patients and residents with these conditions,⁷⁵ and because these assessments provide opportunity for improving quality of care.

Symptoms of dementia may improve with pharmacotherapy, occupational therapy, or physical activity,^{76 77 78} and promising treatments for severe traumatic brain injury are currently being tested.⁷⁹ For older patients and residents diagnosed with depression, treatment options to reduce symptoms and improve quality of life include antidepressant medication and psychotherapy,^{80 81 82 83} and targeted services, such as therapeutic recreation,

exercise, and restorative nursing, to increase opportunities for psychosocial interaction.⁸⁴

In alignment with our Meaningful Measures Initiative, accurate assessment of cognitive function and mental status of patients and residents in PAC is expected to make care safer by reducing harm caused in the delivery of care; promote effective prevention and treatment of chronic disease; strengthen person and family engagement as partners in their care; and promote effective communication and coordination of care. For example, standardized assessment of cognitive function and mental status of patients and residents in PAC will support establishing a baseline for identifying changes in cognitive function and mental status (for example, delirium), anticipating the patient’s or resident’s ability to understand and participate in treatments during a PAC stay, ensuring patient and resident safety (for example, risk of falls), and identifying appropriate support needs at the time of discharge or transfer. Standardized patient assessment data elements will enable or support clinical decision-making and early clinical intervention; person-centered, high quality care through facilitating better care continuity and coordination; better data exchange and interoperability between settings; and longitudinal outcome analysis.

Therefore, reliable standardized patient assessment data elements assessing cognitive function and mental status are needed to initiate a management program that can optimize a patient’s or resident’s prognosis and reduce the possibility of adverse events.

The data elements related to cognitive function and mental status were first proposed as standardized patient assessment data elements in the FY 2018 IRF PPS proposed rule (82 FR 20723 through 20726). In response to our proposals, a few commenters noted that the proposed data elements did not capture some dimensions of cognitive function and mental status, such as functional cognition, communication, attention, concentration, and agitation. One commenter also suggested that other cognitive assessments should be considered for standardization. Another commenter stated support for the standardized assessment of cognitive function and mental status, because it could support appropriate use of skilled therapy for beneficiaries with

⁷⁴ National Institute on Aging. (2014). Assessing Cognitive Impairment in Older Patients. A Quick Guide for Primary Care Physicians. Retrieved from: <https://www.nia.nih.gov/alzheimers/publication/assessing-cognitive-impairment-older-patients>.

⁷⁵ Gage B., Morley M., Smith L., et al. (2012). Post-Acute Care Payment Reform Demonstration (Final report, Volume 4 of 4). Research Triangle Park, NC: RTI International.

⁷⁶ Casey D.A., Antimisiaris D., O’Brien J. (2010). Drugs for Alzheimer’s Disease: Are They Effective? *Pharmacology & Therapeutics*, 35, 208–11.

⁷⁷ Graff M.J., Vernooij-Dassen M.J., Thijssen M., Dekker J., Hoefnagels W.H., Rikkert M.G.O. (2006). Community Based Occupational Therapy for Patients with Dementia and their Care Givers: Randomised Controlled Trial. *BMJ*, 333(7580): 1196.

⁷⁸ Bherer L., Erickson K.I., Liu-Ambrose T. (2013). A Review of the Effects of Physical Activity and Exercise on Cognitive and Brain Functions in Older Adults. *Journal of Aging Research*, 657508.

⁷⁹ Giacino J.T., Whyte J., Bagiella E., et al. (2012). Placebo-controlled trial of amantadine for severe traumatic brain injury. *New England Journal of Medicine*, 366(9), 819–826.

⁸⁰ Alexopoulos G.S., Katz I.R., Reynolds C.F. 3rd, Carpenter D., Docherty J.P., Ross R.W. (2001). Pharmacotherapy of depression in older patients: a summary of the expert consensus guidelines. *Journal of Psychiatric Practice*, 7(6), 361–376.

⁸¹ Arean P.A., Cook B.L. (2002). Psychotherapy and combined psychotherapy/pharmacotherapy for late life depression. *Biological Psychiatry*, 52(3), 293–303.

⁸² Hollon S.D., Jarrett R.B., Nierenberg A.A., Thase M.E., Trivedi M., Rush A.J. (2005). Psychotherapy and medication in the treatment of adult and geriatric depression: which monotherapy or combined treatment? *Journal of Clinical Psychiatry*, 66(4), 455–468.

⁸³ Wagenaar D., Colenda C.C., Kreft M., Sawade J., Gardiner J., Poverejan E. (2003). Treating depression in nursing homes: practice guidelines in the real world. *J Am Osteopath Assoc*. 103(10), 465–469.

⁸⁴ Crespy SD, Van Haitsma K, Kleban M, Hann CJ. Reducing Depressive Symptoms in Nursing Home Residents: Evaluation of the Pennsylvania Depression Collaborative Quality Improvement Program. *J Healthc Qual*. 2016. Vol. 38, No. 6, pp. e76–e88.

degenerative conditions, such as dementia, and appropriate use of medications for behavioral and psychological symptoms of dementia.

We are inviting comment on our proposals to collect as standardized patient assessment data the following data with respect to cognitive function and mental status.

- Brief Interview for Mental Status (BIMS)

We are proposing that the data elements that comprise the BIMS meet the definition of standardized patient assessment data with respect to cognitive function and mental status under section 1899B(b)(1)(B)(ii) of the Act.

As described in the FY 2018 IRF PPS Proposed Rule (82 FR 20723 through 20724), dementia and cognitive impairment are associated with long-term functional dependence and, consequently, poor quality of life and increased healthcare costs and mortality.⁸⁵ This makes assessment of mental status and early detection of cognitive decline or impairment critical in the PAC setting. The intensity of routine nursing care is higher for patients and residents with cognitive impairment than those without, and dementia is a significant variable in predicting readmission after discharge to the community from PAC providers.⁸⁶

The BIMS is a performance-based cognitive assessment screening tool that assesses repetition, recall with and without prompting, and temporal orientation. The data elements that make up the BIMS are seven questions on the repetition of three words, temporal orientation, and recall that result in a cognitive function score. The BIMS was developed to be a brief, objective screening tool, with a focus on learning and memory. As a brief screener, the BIMS was not designed to diagnose dementia or cognitive impairment, but rather to be a relatively quick and easy to score assessment that could identify cognitively impaired patients as well as those who may be at risk for cognitive decline and require further assessment. It is currently in use in two of the PAC assessments: The MDS used by SNFs and the IRF-PAI used by IRFs. For more information on

the BIMS, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The data elements that comprise the BIMS were first proposed as standardized patient assessment data elements in the FY 2018 IRF PPS proposed rule (82 FR 20723 through 20724). In that proposed rule, we stated that the proposal was informed by input we received through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016, expressed support for use of the BIMS, noting that it is reliable, feasible to use across settings, and will provide useful information about patients and residents. We also stated that the data collected through the BIMS will provide a clearer picture of patient or resident complexity, help with the care planning process, and be useful during care transitions and when coordinating across providers. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the use of the BIMS, especially in its capacity to inform care transitions, but other commenters were critical, noting the limitations of the BIMS to assess mild cognitive impairment and “functional” cognition, and that the BIMS cannot be completed by patients and residents who are unable to communicate. They also stated that other cognitive assessments available in the public domain should be considered for standardization. One commenter suggested that CMS require use of the BIMS with respect to discharge as well as admission.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the BIMS was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the BIMS to be feasible and reliable for use with PAC patients

and residents. More information about the performance of the BIMS in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements and the TEP supported the assessment of patient or resident cognitive status with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. Some commenters also expressed concern that the BIMS, if used alone, may not be sensitive enough to capture the range of cognitive impairments, including mild cognitive impairment. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We understand the concerns raised by stakeholders that BIMS, if used alone, may not be sensitive enough to capture the range of cognitive impairments, including functional cognition and MCI, but note that the purpose of the BIMS

⁸⁵ Agüero-Torres, H., Fratiglioni, L., Guo, Z., Viitanen, M., von Strauss, E., & Winblad, B. (1998). “Dementia is the major cause of functional dependence in the elderly: 3-year follow-up data from a population-based study.” *Am J of Public Health* 88(10): 1452–1456.

⁸⁶ RTI International. Proposed Measure Specifications for Measures Proposed in the FY 2017 IRF QRP NPRM. Research Triangle Park, NC. 2016.

data elements as SPADEs is to screen for cognitive impairment in a broad population. We also acknowledge that further cognitive tests may be required based on a patient's condition and will take this feedback into consideration in the development of future standardized assessment data elements. However, taking together the importance of assessing for cognitive status, stakeholder input, and strong test results, we are proposing that the BIMS data elements meet the definition of standardized patient assessment data with respect to cognitive function and mental status under section 1899B(b)(1)(B)(ii) of the Act and to adopt the BIMS data elements as standardized patient assessment data for use in the IRF QRP.

- **Confusion Assessment Method (CAM)**

In this proposed rule, we are proposing that the data elements that comprise the Confusion Assessment Method (CAM) meet the definition of standardized patient assessment data with respect to cognitive function and mental status under section 1899B(b)(1)(B)(ii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20724), the CAM was developed to identify the signs and symptoms of delirium. It results in a score that suggests whether a patient or resident should be assigned a diagnosis of delirium. Because patients and residents with multiple comorbidities receive services from PAC providers, it is important to assess delirium, which is associated with a high mortality rate and prolonged duration of stay in hospitalized older adults.⁸⁷ Assessing these signs and symptoms of delirium is clinically relevant for care planning by PAC providers.

The CAM is a patient assessment that screens for overall cognitive impairment, as well as distinguishes delirium or reversible confusion from other types of cognitive impairment. The CAM is currently in use in two of the PAC assessments: A four-item version of the CAM is used in the MDS in SNFs; and a six-item version of the CAM is used in the LTCH CARE Data Set (LCDS) in LTCHs. We are proposing the four-item version of the CAM that assesses acute change in mental status, inattention, disorganized thinking, and altered level of consciousness. For more information on the CAM, we refer readers to the document titled "Proposed Specifications for IRF QRP

Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The data elements that comprise the CAM were first proposed as standardized patient assessment data elements in the FY 2018 IRF PPS proposed rule (82 FR 20724). In that proposed rule, we stated that the proposal was informed by public input we received on the CAM through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 expressed support for use of the CAM, noting that it would provide important information for care planning and care coordination, and therefore, contribute to quality improvement. We also stated that those commenters had noted the CAM is particularly helpful in distinguishing delirium and reversible confusion from other types of cognitive impairment. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, one commenter supported use of the CAM for standardized patient assessment data. However, some commenters expressed concerns that the CAM data elements assess: The presence of behavioral symptoms, but not the cause; the possibility of a false positive for delirium due to patient cognitive or communication impairments; and the lack of specificity of the assessment specifications. In addition, other commenters noted that the CAM is not necessary because: Delirium is easily diagnosed without a tool; the CAM and BIMS assessments are redundant; and some CAM response options are not meaningful.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the CAM was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the CAM to be feasible and reliable for use with PAC patients and residents. More information about the performance of the CAM in the

National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although they did not specifically discuss the CAM data elements, the TEP supported the assessment of patient or resident cognitive status with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for delirium, stakeholder input, and strong test results, we are proposing that the CAM data elements meet the definition of standardized patient assessment data with respect to cognitive function and mental status under section 1899B(b)(1)(B)(ii) of the Act and to adopt the CAM data elements as standardized patient assessment data for use in the IRF QRP.

⁸⁷ Fick, D.M., Steis, M.R., Waller, J.L., & Inouye, S.K. (2013). "Delirium superimposed on dementia is associated with prolonged length of stay and poor outcomes in hospitalized older adults." *J of Hospital Med* 8(9): 500–505.

- Patient Health Questionnaire—2 to 9 (PHQ-2 to 9)

In this proposed rule, we are proposing that the Patient Health Questionnaire-2 to 9 (PHQ-2 to 9) data elements meet the definition of standardized patient assessment data with respect to cognitive function and mental status under section 1899B(b)(1)(B)(ii) of the Act. The proposed data elements are based on the PHQ-2 mood interview, which focuses on only the two cardinal symptoms of depression, and the longer PHQ-9 mood interview, which assesses presence and frequency of nine signs and symptoms of depression. The name of the data element, the PHQ-2 to 9, refers to an embedded skip pattern that transitions patients with a threshold level of symptoms in the PHQ-2 to the longer assessment of the PHQ-9. The skip pattern is described further below. As described in the FY 2018 IRF PPS proposed rule (82 FR 20725 through 20726), depression is a common and under-recognized mental health condition. Assessments of depression help PAC providers better understand the needs of their patients and residents by: Prompting further evaluation after establishing a diagnosis of depression; elucidating the patient's or resident's ability to participate in therapies for conditions other than depression during their stay; and identifying appropriate ongoing treatment and support needs at the time of discharge.

The proposed PHQ-2 to 9 is based on the PHQ-9 mood interview. The PHQ-2 consists of questions about only the first two symptoms addressed in the PHQ-9: depressed mood and anhedonia (inability to feel pleasure), which are the cardinal symptoms of depression. The PHQ-2 has performed well as both a screening tool for identifying depression, to assess depression severity, and to monitor patient mood over time.^{88 89} If a patient demonstrates signs of depressed mood and anhedonia under the PHQ-2, then the patient is administered the lengthier PHQ-9. This skip pattern (also referred to as a gateway) is designed to reduce the length of the interview assessment for patients who fail to report the cardinal symptoms of depression. The design of the PHQ-2 to 9 reduces the burden that would be associated with requiring the

full PHQ-9, while ensuring that patients and residents with indications of depressive symptoms based on the PHQ-2 receive the longer assessment.

Components of the proposed data elements are currently used in the OASIS for HHAs (PHQ-2) and the MDS for SNFs (PHQ-9). For more information on the PHQ-2 to 9, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We proposed the PHQ-2 data elements as SPADEs in the FY 2018 IRF proposed rule (82 FR 20725 through 20726). In that proposed rule, we stated that the proposal was informed by input we received from the TEP convened by our data element contractor on April 6 and 7, 2016. The TEP members particularly noted that the brevity of the PHQ-2 made it feasible to administer with low burden for both assessors and PAC patients or residents. A summary of the April 6 and 7, 2016 TEP meeting titled "SPADE Technical Expert Panel Summary (First Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

That rule proposal was also informed by public input that we received through a call for input published on the CMS Measures Management System Blueprint website. Input was submitted from August 12 to September 12, 2016 on three versions of the PHQ depression screener: The PHQ-2; the PHQ-9; and the PHQ-2 to 9 with the skip pattern design. Many commenters were supportive of the standardized assessment of mood in PAC settings, given the role that depression plays in well-being. Several commenters expressed support for an approach that would use PHQ-2 as a gateway to the longer PHQ-9 while still potentially reducing burden on most patients and residents, as well as test administrators, and ensuring the administration of the PHQ-9, which exhibits higher specificity,⁹⁰ for patients and residents

who showed signs and symptoms of depression on the PHQ-2. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal to use the PHQ-2 in the FY 2018 IRF PPS proposed rule (82 FR 20725 through 20726), we received comments agreeing to the importance of a standardized assessment of depression in patients and residents receiving PAC services. Commenters also raised concerns about the ability of the PHQ-2 to correctly identify all patients and residents with signs and symptoms of depression. One commenter supported using the PHQ-2 as a gateway assessment and conducting a more thorough evaluation of depression symptoms with the PHQ-9 if the PHQ-2 is positive. Another commenter expressed concern that standardized assessment of signs and symptoms of depression via the PHQ-2 is not appropriate in the IRF setting, as patients may have recently experienced acute illness or injury, and routine screening may lead to overprescribing of antidepressant medications. Another commenter expressed concern about potential conflicts between the results of screening assessments and documented diagnoses based on the expertise of physicians and other clinicians. In response to these comments, we carried out additional testing, and we provide our findings below.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the PHQ-2 to 9 was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the PHQ-2 to 9 to be feasible and reliable for use with PAC patients and residents. More information about the performance of the PHQ-2 to 9 in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of

⁸⁸ Li, C., Friedman, B., Conwell, Y., & Fiscella, K. (2007). "Validity of the Patient Health Questionnaire 2 (PHQ-2) in identifying major depression in older people." *J of the A Geriatrics Society*, 55(4): 596–602.

⁸⁹ Löwe, B., Kroenke, K., & Gräfe, K. (2005). "Detecting and monitoring depression with a two-item questionnaire (PHQ-2)." *J of Psychosomatic Research*, 58(2): 163–171.

⁹⁰ Arroll B, Goodyear-Smith F, Crengle S, Gunn J, Kerse N, Fishman T, et al. Validation of PHQ-2 and PHQ-9 to screen for major depression in the primary care population. *Annals of family medicine*. 2010;8(4):348–53. doi: 10.1370/afm.1139 pmid:20644190; PubMed Central PMCID: PMC2906530.

soliciting input on the PHQ–2 to 9. The TEP was supportive of the PHQ–2 to 9 data element set as a screener for signs and symptoms of depression. The TEP’s discussion noted that symptoms evaluated by the full PHQ–9 (for example, concentration, sleep, appetite) had relevance to care planning and the overall well-being of the patient or resident, but that the gateway approach of the PHQ–2 to 9 would be appropriate as a depression screening assessment, as it depends on the well-validated PHQ–2 and focuses on the cardinal symptoms of depression. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our on-going SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for depression, stakeholder input, and test results, we are proposing that the PHQ–2 to 9 data elements meet the definition of standardized patient assessment data with respect to cognitive function and mental status under section 1899B(b)(1)(B)(ii) of the Act and to adopt the PHQ–2 to 9 data elements as standardized patient assessment data for use in the IRF QRP.

2. Special Services, Treatments, and Interventions Data

Special services, treatments, and interventions performed in PAC can have a major effect on an individual’s health status, self-image, and quality of

life. The assessment of these special services, treatments, and interventions in PAC is important to ensure the continuing appropriateness of care for the patients and residents receiving them, and to support care transitions from one PAC provider to another, an acute care hospital, or discharge. In alignment with our Meaningful Measures Initiative, accurate assessment of special services, treatments, and interventions of patients and residents served by PAC providers is expected to make care safer by reducing harm caused in the delivery of care; promote effective prevention and treatment of chronic disease; strengthen person and family engagement as partners in their care; and promote effective communication and coordination of care.

For example, standardized assessment of special services, treatments, and interventions used in PAC can promote patient and resident safety through appropriate care planning (for example, mitigating risks such as infection or pulmonary embolism associated with central intravenous access), and identifying life-sustaining treatments that must be continued, such as mechanical ventilation, dialysis, suctioning, and chemotherapy, at the time of discharge or transfer. Standardized assessment of these data elements will enable or support: Clinical decision-making and early clinical intervention; person-centered, high quality care through, for example, facilitating better care continuity and coordination; better data exchange and interoperability between settings; and longitudinal outcome analysis. Therefore, reliable data elements assessing special services, treatments, and interventions are needed to initiate a management program that can optimize a patient’s or resident’s prognosis and reduce the possibility of adverse events.

A TEP convened by our data element contractor provided input on the proposed data elements for special services, treatments, and interventions. In a meeting held on January 5 and 6, 2017, this TEP found that these data elements are appropriate for standardization because they would provide useful clinical information to inform care planning and care coordination. The TEP affirmed that assessment of these services and interventions is standard clinical practice, and that the collection of these data by means of a list and checkbox format would conform with common workflow for PAC providers. A summary of the January 5 and 6, 2017 TEP meeting titled “SPADE Technical

Expert Panel Summary (Second Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Comments on the category of special services, treatments, and interventions were also submitted by stakeholders during the FY 2018 IRF PPS proposed rule (82 FR 20726 through 20736) public comment period. One commenter supported adding the SPADEs for special services, treatments and interventions. Others stated labor costs and staff burden would increase for data collection. The Medicare Payment Advisory Commission (MedPAC) suggested that a few other high-cost services, such as cardiac monitoring and specialty bed/surfaces, may warrant consideration for inclusion in future collection efforts. One commenter believed that the low frequency of the special services, treatments, and interventions in the IRF setting makes them not worth assessing for patients given the cost of data collection and reporting. A few commenters noted that that many of these data elements should be obtainable from administrative data (that is, coding and Medicare claims), and therefore, assessing them through patient record review would be duplicated effort.

Information on data element performance in the National Beta Test, which collected data between November 2017 and August 2018, is reported within each data element proposal below. Clinical staff who participated in the National Beta Test supported these data elements because of their importance in conveying patient or resident significant health care needs, complexity, and progress. However, clinical staff also noted that, despite the simple “checkbox” format of these data element, they sometimes needed to consult multiple information sources to determine a patient’s or resident’s treatments.

We are inviting comment on our proposals to collect as standardized patient assessment data the following data with respect to special services, treatments, and interventions.

- Cancer Treatment: Chemotherapy (IV, Oral, Other)

We are proposing that the Chemotherapy (IV, Oral, Other) data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20726 through 20727), chemotherapy is a type of cancer treatment that uses drugs to destroy cancer cells. It is sometimes used when a patient has a malignancy (cancer), which is a serious, often life-threatening or life-limiting condition. Both intravenous (IV) and oral chemotherapy have serious side effects, including nausea/vomiting, extreme fatigue, risk of infection due to a suppressed immune system, anemia, and an increased risk of bleeding due to low platelet counts. Oral chemotherapy can be as potent as chemotherapy given by IV and can be significantly more convenient and less resource-intensive to administer. Because of the toxicity of these agents, special care must be exercised in handling and transporting chemotherapy drugs. IV chemotherapy is administered either peripherally, or more commonly, given via an indwelling central line, which raises the risk of bloodstream infections. Given the significant burden of malignancy, the resource intensity of administering chemotherapy, and the side effects and potential complications of these highly-toxic medications, assessing the receipt of chemotherapy is important in the PAC setting for care planning and determining resource use. The need for chemotherapy predicts resource intensity, both because of the complexity of administering these potent, toxic drug combinations under specific protocols, and because of what the need for chemotherapy signals about the patient's underlying medical condition. Furthermore, the resource intensity of IV chemotherapy is higher than for oral chemotherapy, as the protocols for administration and the care of the central line (if present) for IV chemotherapy require significant resources.

The Chemotherapy (IV, Oral, Other) data element consists of a principal data element (Chemotherapy) and three response option sub-elements: IV chemotherapy, which is generally resource-intensive; Oral chemotherapy, which is less invasive and generally requires less intensive administration protocols; and a third category, Other, provided to enable the capture of other less common chemotherapeutic approaches. This third category is potentially associated with higher risks and is more resource intensive due to delivery by other routes (for example, intraventricular or intrathecal). If the assessor indicates that the patient is receiving chemotherapy on the principal Chemotherapy data element, the assessor would then indicate by

which route or routes (for example, IV, Oral, Other) the chemotherapy is administered.

A single Chemotherapy data element that does not include the proposed three sub-elements is currently in use in the MDS in SNFs. For more information on the Chemotherapy (IV, Oral, Other) data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Chemotherapy data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20726 through 20727). In that proposed rule, we stated that the proposal was informed by input we received through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 expressed support for the IV Chemotherapy data element and suggested it be included as standardized patient assessment data. We also stated that those commenters had noted that assessing the use of chemotherapy services is relevant to share across the care continuum to facilitate care coordination and care transitions and noted the validity of the data element. Commenters also noted the importance of capturing all types of chemotherapy, regardless of route, and stated that collecting data only on patients and residents who received chemotherapy by IV would limit the usefulness of this standardized data element. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the Chemotherapy data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Chemotherapy data element was included in the National Beta Test of

candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Chemotherapy data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Chemotherapy data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP members did not specifically discuss the Chemotherapy data element, the TEP members supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for chemotherapy, stakeholder input, and strong test results, we are proposing that the Chemotherapy (IV, Oral, Other) data element with a principal data element and three sub-elements meet the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Chemotherapy (IV, Oral, Other) data element as standardized patient assessment data for use in the IRF QRP.

- **Cancer Treatment: Radiation**

We are proposing that the Radiation data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20727 through 20728), radiation is a type of cancer treatment that uses high-energy radioactivity to stop cancer by damaging cancer cell DNA, but it can also damage normal cells. Radiation is an important therapy for particular types of cancer, and the resource utilization is high, with frequent radiation sessions required, often daily for a period of several weeks. Assessing whether a patient or resident is receiving radiation therapy is important to determine resource utilization because PAC patients and residents will need to be transported to and from radiation treatments, and monitored and treated for side effects after receiving this intervention. Therefore, assessing the receipt of radiation therapy, which would compete with other care processes given the time burden, would be important for care planning and care coordination by PAC providers.

The proposed data element consists of the single Radiation data element. The Radiation data element is currently in use in the MDS in SNFs. For more information on the Radiation data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Radiation data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20727 through 20728). In that proposed rule,

we stated that the proposal was informed by input we received through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 expressed support for the Radiation data element, noting its importance and clinical usefulness for patients and residents in PAC settings, due to the side effects and consequences of radiation treatment on patients and residents that need to be considered in care planning and care transitions, the feasibility of the item, and the potential for it to improve quality. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the Radiation data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Radiation data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Radiation data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Radiation data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP members did not specifically discuss the Radiation data element, the TEP members supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the

September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for radiation, stakeholder input, and strong test results, we are proposing that the Radiation data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Radiation data element as standardized patient assessment data for use in the IRF QRP.

- **Respiratory Treatment: Oxygen Therapy (Intermittent, Continuous, High-concentration Oxygen Delivery System)**

We are proposing that the Oxygen Therapy (Intermittent, Continuous, High-concentration Oxygen Delivery System) data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20728), we proposed a similar data element related to oxygen therapy. Oxygen therapy provides a patient or resident with extra oxygen when medical conditions such as chronic obstructive pulmonary

disease, pneumonia, or severe asthma prevent the patient or resident from getting enough oxygen from breathing. Oxygen administration is a resource-intensive intervention, as it requires specialized equipment such as a source of oxygen, delivery systems (for example, oxygen concentrator, liquid oxygen containers, and high-pressure systems), the patient interface (for example, nasal cannula or mask), and other accessories (for example, regulators, filters, tubing). The data element proposed here captures patient or resident use of three types of oxygen therapy (intermittent, continuous, and high-concentration oxygen delivery system), which reflects the intensity of care needed, including the level of monitoring and bedside care required. Assessing the receipt of this service is important for care planning and resource use for PAC providers.

The proposed data element, Oxygen Therapy, consists of the principal Oxygen Therapy data element and three response option sub-elements: Continuous (whether the oxygen was delivered continuously, typically defined as ≥ 14 hours per day); Intermittent; or High-concentration Oxygen Delivery System. Based on public comments and input from expert advisors about the importance and clinical usefulness of documenting the extent of oxygen use, we added a third sub-element, high-concentration oxygen delivery system, to the sub-elements, which previously included only intermittent and continuous. If the assessor indicates that the patient is receiving oxygen therapy on the principal oxygen therapy data element, the assessor then would indicate the type of oxygen the patient receives (for example, Intermittent, Continuous, High-concentration oxygen delivery system).

These three proposed sub-elements were developed based on similar data elements that assess oxygen therapy, currently in use in the MDS in SNFs ("Oxygen Therapy"), previously used in the OASIS ("Oxygen (intermittent or continuous)"), and a data element tested in the PAC PRD that focused on intensive oxygen therapy ("High O₂ Concentration Delivery System with FiO₂ > 40 percent"). For more information on the proposed Oxygen Therapy (Continuous, Intermittent, High-concentration oxygen delivery system) data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html.

The Oxygen Therapy (Intermittent, Continuous) data element was first proposed as standardized patient assessment data in the FY 2018 IRF PPS proposed rule (82 FR 20728). In that proposed rule, we stated that the proposal was informed by input we received on the single data element, Oxygen (inclusive of intermittent and continuous oxygen use), through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016, expressed the importance of the Oxygen data element, noting feasibility of this item in PAC, and the relevance of it to facilitating care coordination and supporting care transitions, but suggesting that the extent of oxygen use be documented. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the Oxygen Therapy (Intermittent, Continuous) data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Oxygen Therapy data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Oxygen Therapy data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Oxygen Therapy data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on

September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Oxygen Therapy data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing oxygen therapy, stakeholder input, and strong test results, we are proposing that the Oxygen Therapy (Intermittent, Continuous, High-concentration Oxygen Delivery System) data element with a principal data element and three sub-elements meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Oxygen Therapy (Intermittent, Continuous, High-concentration Oxygen Delivery System) data element as standardized patient assessment data for use in the IRF QRP.

- Respiratory Treatment: Suctioning (Scheduled, as Needed)

We are proposing that the Suctioning (Scheduled, As needed) data element meets the definition of standardized

patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20728 through 20729), suctioning is a process used to clear secretions from the airway when a person cannot clear those secretions on his or her own. It is done by aspirating secretions through a catheter connected to a suction source. Types of suctioning include oropharyngeal and nasopharyngeal suctioning, nasotracheal suctioning, and suctioning through an artificial airway such as a tracheostomy tube. Oropharyngeal and nasopharyngeal suctioning are a key part of many patients' or residents' care plans, both to prevent the accumulation of secretions than can lead to aspiration pneumonias (a common condition in patients and residents with inadequate gag reflexes), and to relieve obstructions from mucus plugging during an acute or chronic respiratory infection, which often lead to desaturations and increased respiratory effort. Suctioning can be done on a scheduled basis if the patient is judged to clinically benefit from regular interventions, or can be done as needed when secretions become so prominent that gurgling or choking is noted, or a sudden desaturation occurs from a mucus plug. As suctioning is generally performed by a care provider rather than independently, this intervention can be quite resource intensive if it occurs every hour, for example, rather than once a shift. It also signifies an underlying medical condition that prevents the patient from clearing his/her secretions effectively (such as after a stroke, or during an acute respiratory infection). Generally, suctioning is necessary to ensure that the airway is clear of secretions which can inhibit successful oxygenation of the individual. The intent of suctioning is to maintain a patent airway, the loss of which can lead to death or complications associated with hypoxia.

The Suctioning (Scheduled, As needed) data element consists of a principal data element, and two sub-elements: Scheduled and As needed. These sub-elements capture two types of suctioning. Scheduled indicates suctioning based on a specific frequency, such as every hour. As needed means suctioning only when indicated. If the assessor indicates that the patient is receiving suctioning on the principal Suctioning data element, the assessor would then indicate the frequency (for example, Scheduled, As needed). The proposed data element is based on an item currently in use in the MDS in SNFs which does not include

our proposed two sub-elements, as well as data elements tested in the PAC PRD that focused on the frequency of suctioning required for patients and residents with tracheostomies ("Trach Tube with Suctioning: Specify most intensive frequency of suctioning during stay [Every ___hours]"). For more information on the Suctioning data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Suctioning data element was first proposed as standardized patient assessment data elements in the FY 2018 IRF PPS proposed rule (82 FR 20728 through 20729). In that proposed rule, we stated that the proposal was informed by input we received through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 expressed support for the Suctioning data element. The input noted the feasibility of this item in PAC, and the relevance of this data element to facilitating care coordination and supporting care transitions.

We also stated that those commenters had suggested that we examine the frequency of suctioning to better understand the use of staff time, the impact on a patient or resident's capacity to speak and swallow, and intensity of care required. Based on these comments, we decided to add two sub-elements (Scheduled and As needed) to the suctioning element. The proposed Suctioning data element includes both the principal Suctioning data element that is included on the MDS in SNFs and two sub-elements, Scheduled and As needed. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received

that were specific to the Suctioning data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Suctioning data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Suctioning data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Suctioning data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Suctioning data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicited additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html.

Taking together the importance of assessing for suctioning, stakeholder input, and strong test results, we are proposing that the Suctioning (Scheduled, As needed) data element with a principal data element and two sub-elements meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Suctioning (Scheduled, As needed) data element as standardized patient assessment data for use in the IRF QRP.

- Respiratory Treatment: Tracheostomy Care

We are proposing that the Tracheostomy Care data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20729 through 20730), a tracheostomy provides an air passage to help a patient or resident breathe when the usual route for breathing is obstructed or impaired. Generally, in all of these cases, suctioning is necessary to ensure that the tracheostomy is clear of secretions, which can inhibit successful oxygenation of the individual. Often, individuals with tracheostomies are also receiving supplemental oxygenation. The presence of a tracheostomy, albeit permanent or temporary, warrants careful monitoring and immediate intervention if the tracheostomy becomes occluded or if the device used becomes dislodged. While in rare cases the presence of a tracheostomy is not associated with increased care demands (and in some of those instances, the care of the ostomy is performed by the patient) in general the presence of such as device is associated with increased patient risk, and clinical care services will necessarily include close monitoring to ensure that no life-threatening events occur as a result of the tracheostomy. In addition, tracheostomy care, which primarily consists of cleansing, dressing changes, and replacement of the tracheostomy cannula (tube), is a critical part of the care plan. Regular cleansing is important to prevent infection, such as pneumonia, and to prevent any occlusions with which there are risks for inadequate oxygenation.

The proposed data element consists of the single Tracheostomy Care data element. The proposed data element is currently in use in the MDS in SNFs ("Tracheostomy care"). For more information on the Tracheostomy Care data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Tracheostomy Care data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20729 through 20730). In that proposed rule, we stated that the proposal was informed by input we received on the Tracheostomy Care data element through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 expressed support for this data element, noting the feasibility of this item in PAC, and the relevance of this data element to facilitating care coordination and supporting care transitions. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the Tracheostomy Care data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Tracheostomy Care data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Tracheostomy Care data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Tracheostomy Care data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," at

<https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Tracheostomy Care data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for tracheostomy care, stakeholder input, and strong test results, we are proposing that the Tracheostomy Care data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Tracheostomy Care data element as standardized patient assessment data for use in the IRF QRP.

• Respiratory Treatment: Non-Invasive Mechanical Ventilator (BiPAP, CPAP)

We are proposing that the Non-invasive Mechanical Ventilator (Bilevel Positive Airway Pressure [BiPAP], Continuous Positive Airway Pressure [CPAP]) data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20730), BiPAP and CPAP are respiratory support devices that prevent the airways from closing by delivering slightly pressurized air via electronic cycling throughout the breathing cycle (BiPAP) or through a mask continuously (CPAP). Assessment of non-invasive mechanical ventilation is important in care planning, as both CPAP and BiPAP are resource-intensive (although less so than invasive mechanical ventilation) and signify underlying medical conditions about the patient or resident who requires the use of this intervention. Particularly when used in settings of acute illness or progressive respiratory decline, additional staff (for example, respiratory therapists) are required to monitor and adjust the CPAP and BiPAP settings and the patient or resident may require more nursing resources.

The proposed data element, Non-invasive Mechanical Ventilator (BiPAP, CPAP), consists of the principal Non-invasive Mechanical Ventilator data element and two response option sub-elements: BiPAP and CPAP. If the assessor indicates that the patient is receiving non-invasive mechanical ventilation on the principal Non-invasive Mechanical Ventilator data element, the assessor would then indicate which type (for example, BiPAP, CPAP). Data elements that assess non-invasive mechanical ventilation are currently included on LCDS for the LTCH setting (“Non-invasive Ventilator (BiPAP, CPAP)”), and the MDS for the SNF setting (“Non-invasive Mechanical Ventilator (BiPAP/CPAP)”). For more information on the Non-invasive Mechanical Ventilator (BiPAP, CPAP) data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Non-invasive Mechanical Ventilator data element was first proposed as standardized patient assessment data elements in the FY 2018 IRF PPS proposed rule (82 FR 20730). In that proposed rule, we stated that the proposal was informed by input we received through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 on a single data element, BiPAP/CPAP, that captures equivalent clinical information but uses a different label than the data element currently used in the MDS in SNFs and LCDS, expressed support for this data element, noting the feasibility of these items in PAC, and the relevance of this data element for facilitating care coordination and supporting care transitions. In addition, we also stated that some commenters supported separating out BiPAP and CPAP as distinct sub-elements, as they are therapies used for different types of patients and residents. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general. One commenter noted appreciation of the revisions to the Non-invasive Mechanical Ventilator data element in response to comments submitted during a public input period held from August 12 to September 12, 2016.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Non-invasive Mechanical Ventilator data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Non-invasive Mechanical Ventilator data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Non-invasive Mechanical Ventilator data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Non-invasive Mechanical Ventilator data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for non-invasive mechanical ventilation, stakeholder input, and strong test results, we are proposing that the Non-invasive Mechanical Ventilator (BiPAP, CPAP) data element with a principal data element and two sub-elements meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Non-invasive Mechanical Ventilator (BiPAP, CPAP) data element as standardized patient assessment data for use in the IRF QRP.

• Respiratory Treatment: Invasive Mechanical Ventilator

We are proposing that the Invasive Mechanical Ventilator data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20730 through 20731), invasive mechanical ventilation includes ventilators and respirators that ventilate the patient through a tube that extends via the oral airway into the pulmonary region or through a surgical opening directly into the trachea. Thus, assessment of invasive mechanical ventilation is important in care planning and risk mitigation. Ventilation in this manner is a resource-intensive therapy associated with life-threatening conditions without which the patient or resident would not survive. However, ventilator use has inherent risks requiring close monitoring. Failure to adequately care for the patient or resident who is ventilator dependent can lead to iatrogenic events such as death, pneumonia, and sepsis. Mechanical ventilation further signifies the complexity of the patient's underlying medical or surgical condition. Of note, invasive mechanical ventilation is associated with high daily and aggregate costs.⁹¹

The proposed data element, Invasive Mechanical Ventilator, consists of a single data element. Data elements that capture invasive mechanical ventilation are currently in use in the MDS in SNFs and LCDs in LTCHs. For more information on the Invasive Mechanical Ventilator data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Invasive Mechanical Ventilator data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20730 through 20731). In that proposed rule, we stated that the proposal was informed by input we received on data elements that assess invasive ventilator use and weaning

status that were tested in the PAC PRD ("Ventilator—Weaning" and "Ventilator—Non-Weaning") through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016, expressed support for this data element, highlighting the importance of this information in supporting care coordination and care transitions. We also stated that some commenters had expressed concern about the appropriateness for standardization given: The prevalence of ventilator weaning across PAC providers; the timing of administration; how weaning is defined; and how weaning status in particular relates to quality of care. These public comments guided our decision to propose a single data element focused on current use of invasive mechanical ventilation only, which does not attempt to capture weaning status. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" we received is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general. Two commenters noted their appreciation of the revisions to the Invasive Mechanical Ventilator data element in response to comments submitted during a public input period held from August 12 to September 12, 2016.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Invasive Mechanical Ventilator data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Invasive Mechanical Ventilator data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Invasive Mechanical Ventilator data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/>

IMPACT-Act-Downloads-and-Videos.html.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data element. Although the TEP did not specifically discuss the Invasive Mechanical Ventilator data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for invasive mechanical ventilation, stakeholder input, and strong test results, we are proposing that the Invasive Mechanical Ventilator data element that assesses the use of an invasive mechanical ventilator meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Invasive Mechanical Ventilator data element as standardized patient assessment data for use in the IRF QRP.

⁹¹ Wunsch, H., Linde-Zwirble, W.T., Angus, D.C., Hartman, M.E., Milbrandt, E.B., & Kahn, J.M. (2010). "The epidemiology of mechanical ventilation use in the United States." *Critical Care Med* 38(10): 1947–1953.

• Intravenous (IV) Medications (Antibiotics, Anticoagulants, Vasoactive Medications, Other)

We are proposing that the IV Medications (Antibiotics, Anticoagulants, Vasoactive Medications, Other) data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20731 through 20732), when we proposed a similar data element related to IV medications, IV medications are solutions of a specific medication (for example, antibiotics, anticoagulants) administered directly into the venous circulation via a syringe or intravenous catheter. IV medications are administered via intravenous push, single, intermittent, or continuous infusion through a catheter placed into the vein. Further, IV medications are more resource intensive to administer than oral medications, and signify a higher patient complexity (and often higher severity of illness).

The clinical indications for each of the sub-elements of the IV Medications data element (Antibiotics, Anticoagulants, Vasoactive Medications, and Other) are very different. IV antibiotics are used for severe infections when the bioavailability of the oral form of the medication would be inadequate to kill the pathogen or an oral form of the medication does not exist. IV anticoagulants refer to anti-clotting medications (that is, “blood thinners”). IV anticoagulants are commonly used for hospitalized patients who have deep venous thrombosis, pulmonary embolism, or myocardial infarction, as well as those undergoing interventional cardiac procedures. Vasoactive medications refer to the IV administration of vasoactive drugs, including vasopressors, vasodilators, and continuous medication for pulmonary edema, which increase or decrease blood pressure or heart rate. The indications, risks, and benefits of each of these classes of IV medications are distinct, making it important to assess each separately in PAC. Knowing whether or not patients and residents are receiving IV medication and the type of medication provided by each PAC provider will improve quality of care.

The IV Medications (Antibiotics, Anticoagulants, Vasoactive Medications, and Other) data element we are proposing consists of a principal data element (IV Medications) and four response option sub-elements: Antibiotics, Anticoagulants, Vasoactive

Medications, and Other. The Vasoactive Medications sub-element was not proposed in the FY 2018 IRF PPS proposed rule (82 FR 20731 through 20732). We added the Vasoactive Medications sub-element to our proposal in order to harmonize the proposed IV Medications element with the data currently collected in the LCDS.

If the assessor indicates that the patient is receiving IV medications on the principal IV Medications data element, the assessor would then indicate which types of medications (for example, Antibiotics, Anticoagulants, Vasoactive Medications, Other). An IV Medications data element is currently in use on the MDS in SNFs and there is a related data element in OASIS that collects information on Intravenous and Infusion Therapies. For more information on the IV Medications (Antibiotics, Anticoagulants, Vasoactive Medications, Other) data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

An IV Medications data element was first proposed as standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20731 through 20732). In that proposed rule, we stated that the proposal was informed by input we received on Vasoactive Medications through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 supported this data element with one noting the importance of this data element in supporting care transitions. We also stated that those commenters had criticized the need for collecting specifically Vasoactive Medications, giving feedback that the data element was too narrowly focused. In addition, public comment received indicated that the clinical significance of vasoactive medications administration alone was not high enough in PAC to merit mandated assessment, noting that related and more useful information could be captured in an item that assessed all IV medication use. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the IV Medications data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the IV Medications data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the IV Medications data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the IV Medications data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the IV Medications data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received

from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for IV medications, stakeholder input, and strong test results, we are proposing that the IV Medications (Antibiotics, Anticoagulants, Vasoactive Medications, Other) data element with a principal data element and four sub-elements meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the IV Medications (Antibiotics, Anticoagulants, Vasoactive Medications, Other) data element as standardized patient assessment data for use in the IRF QRP.

- Transfusions

We are proposing that the Transfusions data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20732), transfusion refers to introducing blood or blood products into the circulatory system of a person. Blood transfusions are based on specific protocols, with multiple safety checks and monitoring required during and after the infusion in case of adverse events. Coordination with the provider's blood bank is necessary, as well as documentation by clinical staff to ensure compliance with regulatory requirements. In addition, the need for transfusions signifies underlying patient complexity that is likely to require care coordination and patient monitoring, and impacts planning for transitions of care, as transfusions are not performed by all PAC providers.

The proposed data element consists of the single Transfusions data element. A data element on transfusion is currently in use in the MDS in SNFs (“Transfusions”) and a data element tested in the PAC PRD (“Blood Transfusions”) was found feasible for use in each of the four PAC settings. For

more information on the Transfusions data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Transfusions data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20732). In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the Transfusions data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Transfusions data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Transfusions data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Transfusions data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Transfusions data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for transfusions, stakeholder input, and strong test results, we are proposing that the Transfusions data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Transfusions data element as standardized patient assessment data for use in the IRF QRP.

- Dialysis (Hemodialysis, Peritoneal Dialysis)

We are proposing that the Dialysis (Hemodialysis, Peritoneal dialysis) data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20732 through 20733), dialysis is a treatment primarily used to provide replacement for lost kidney function. Both forms of dialysis (hemodialysis and peritoneal dialysis) are resource intensive, not only during the actual dialysis process but before, during, and following. Patients and residents who need and undergo dialysis procedures are at high risk for physiologic and hemodynamic instability from fluid shifts and electrolyte disturbances, as well as infections that can lead to sepsis. Further, patients or residents receiving hemodialysis are often transported to a different facility, or at a minimum, to a different location in the same facility for treatment. Close monitoring for fluid

shifts, blood pressure abnormalities, and other adverse effects is required prior to, during, and following each dialysis session. Nursing staff typically perform peritoneal dialysis at the bedside, and as with hemodialysis, close monitoring is required.

The proposed data element, Dialysis (Hemodialysis, Peritoneal dialysis) consists of the principal Dialysis data element and two response option sub-elements: Hemodialysis and Peritoneal dialysis. If the assessor indicates that the patient is receiving dialysis on the principal Dialysis data element, the assessor would then indicate which type (Hemodialysis or Peritoneal dialysis). The principal Dialysis data element is currently included on the MDS in SNFs and the LCDS for LTCHs and assesses the overall use of dialysis.

As the result public feedback described below, in this proposed rule, we are proposing a data element that includes the principal Dialysis data element and two sub-elements (Hemodialysis and Peritoneal dialysis). For more information on the Dialysis data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Dialysis data element was first proposed as standardized patient assessment data in the FY 2018 IRF PPS proposed rule (82 FR 20732 through 20733). In that proposed rule, we stated that the proposal was informed by input we received on a singular Hemodialysis data element through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 supported the assessment of hemodialysis and recommended that the data element be expanded to include peritoneal dialysis. We also stated that those commenters had supported the singular Hemodialysis data element, noting the relevance of this information for sharing across the care continuum to facilitate care coordination and care transitions, the potential for this data element to be used to improve quality, and the feasibility for use in PAC. In addition, we received comments that the item would be useful in improving patient and resident transitions of care. We also noted that several commenters had stated that peritoneal dialysis should be included in a standardized data element

on dialysis and recommended collecting information on peritoneal dialysis in addition to hemodialysis. The rationale for including peritoneal dialysis from commenters included the fact that patients and residents receiving peritoneal dialysis will have different needs at post-acute discharge compared to those receiving hemodialysis or not having any dialysis. Based on these comments, the Hemodialysis data element was expanded to include a principal Dialysis data element and two sub-elements, Hemodialysis and Peritoneal dialysis. We are proposing the version of the Dialysis element that includes two types of dialysis. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received comments in support of the special services, treatments, and interventions data elements in general. One commenter noted that they appreciated the revisions to the Dialysis data element in response to comments submitted during a public input period held from August 12 to September 12, 2016.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Dialysis data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Dialysis data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Dialysis data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although they did not specifically discuss the Dialysis data element, the TEP supported the assessment of the special services,

treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for dialysis, stakeholder input, and strong test results, we are proposing that the Dialysis (Hemodialysis, Peritoneal dialysis) data element with a principal data element and two sub-elements meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Dialysis (Hemodialysis, Peritoneal dialysis) data element as standardized patient assessment data for use in the IRF QRP.

- Intravenous (IV) Access (Peripheral IV, Midline, Central line)

We are proposing that the IV Access (Peripheral IV, Midline, Central line) data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20733 through 20734), patients or residents with central lines, including those peripherally inserted or who have

subcutaneous central line “port” access, always require vigilant nursing care to keep patency of the lines and ensure that such invasive lines remain free from any potentially life-threatening events such as infection, air embolism, or bleeding from an open lumen. Clinically complex patients and residents are likely to be receiving medications or nutrition intravenously. The sub-elements included in the IV Access data elements distinguish between peripheral access and different types of central access. The rationale for distinguishing between a peripheral IV and central IV access is that central lines confer higher risks associated with life-threatening events such as pulmonary embolism, infection, and bleeding.

The proposed data element, IV Access (Peripheral IV, Midline, Central line), consists of the principal IV Access data element and three response option sub-elements: Peripheral IV, Midline, and Central line. The proposed IV Access data element is not currently included on any of the PAC assessment instruments. For more information on the IV Access data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The IV Access data element was first proposed as standardized patient assessment data elements in the FY 2018 IRF PPS proposed rule (82 FR 20733 through 20734). In that proposed rule, we stated that the proposal was informed by input we received on one of the PAC PRD data elements, Central Line Management, through a call for input published on the CMS Measures Management System Blueprint website. A central line is a type of IV access. Input submitted from August 12 to September 12, 2016 supported the assessment of central line management and recommended that the data element be broadened to also include other types of IV access. Several commenters noted feasibility and importance for facilitating care coordination and care transitions. However, a few commenters recommended that the definition of this data element be broadened to include peripherally inserted central catheters (“PICC lines”) and midline IVs. Based on public comment feedback and in consultation with expert input, described below, we created an overarching IV Access data element

with sub-elements for other types of IV access in addition to central lines (that is, peripheral IV and midline). This expanded version of IV Access is the data element being proposed. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general. One commenter noted appreciation of the revisions to the IV Access data element in response to comments submitted during a public input period held from August 12 to September 12, 2016.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the IV Access data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the IV Access data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the IV Access data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the IV Access data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for IV access, stakeholder input, and strong test results, we are proposing that the IV access (Peripheral IV, Midline, Central line) data element with a principal data element and three sub-elements meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the IV Access (Peripheral IV, Midline, Central line) data element as standardized patient assessment data for use in the IRF QRP.

• Nutritional Approach: Parenteral/IV Feeding

We are proposing that the Parenteral/IV Feeding data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20734), parenteral nutrition/IV feeding refers to a patient or resident being fed intravenously using an infusion pump, bypassing the usual process of eating and digestion. The need for IV/parenteral feeding indicates a clinical complexity that prevents the patient or resident from meeting his or her nutritional needs enterally, and is more resource intensive than other forms of nutrition, as it often requires monitoring of blood chemistries and the maintenance of a central line. Therefore, assessing a patient’s or resident’s need for parenteral feeding is important for care

planning and resource use. In addition to the risks associated with central and peripheral intravenous access, total parenteral nutrition is associated with significant risks, such as air embolism and sepsis.

The proposed data element consists of the single Parenteral/IV Feeding data element. The proposed Parenteral/IV Feeding data element is currently in use in the MDS in SNFs, and equivalent or related data elements are in use in the LCDs, IRF-PAI, and OASIS. We are proposing to rename the existing Tube/Parenteral feeding item in the IRF-PAI to be the Parenteral/IV Feeding data element. For more information on the Parenteral/IV Feeding data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Parenteral/IV Feeding data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20734). In that proposed rule, we stated that the proposal was informed by input we received on Total Parenteral Nutrition (an item with nearly the same meaning as the proposed data element, but with the label used in the PAC PRD), through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 supported this data element, noting its relevance to facilitating care coordination and supporting care transitions. After the public comment period, the Total Parenteral Nutrition data element was renamed Parenteral/IV Feeding, to be consistent with how this data element is referred to in the MDS in SNFs. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received

that were specific to the Parenteral/IV Feeding data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Parenteral/IV Feeding data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Parenteral/IV Feeding data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Parenteral/IV Feeding data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Parenteral/IV Feeding data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available

at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for parenteral/IV feeding, stakeholder input, and strong test results, we are proposing that the Parenteral/IV Feeding data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Parenteral/IV Feeding data element as standardized patient assessment data for use in the IRF QRP.

- **Nutritional Approach: Feeding Tube**

We are proposing that the Feeding Tube data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20734 through 20735), the majority of patients admitted to acute care hospitals experience deterioration of their nutritional status during their hospital stay, making assessment of nutritional status and method of feeding if unable to eat orally very important in PAC. A feeding tube can be inserted through the nose or the skin on the abdomen to deliver liquid nutrition into the stomach or small intestine. Feeding tubes are resource intensive, and therefore, are important to assess for care planning and resource use. Patients with severe malnutrition are at higher risk for a variety of complications.⁹² In PAC settings, there are a variety of reasons that patients and residents may not be able to eat orally (including clinical or cognitive status).

The proposed data element consists of the single Feeding Tube data element. The Feeding Tube data element is currently included in the MDS for SNFs, and in the OASIS for HHAs, where it is labeled Enteral Nutrition. A related data element, collected in the IRF-PAI for IRFs (Tube/Parenteral Feeding), assesses use of both feeding tubes and parenteral nutrition. We are proposing to rename the existing Tube/Parenteral feeding item in the IRF-PAI to the Feeding Tube data element. For more information on the Feeding Tube data element, we refer readers to the document titled

⁹² Dempsey, D.T., Mullen, J.L., & Buzby, G.P. (1988). “The link between nutritional status and clinical outcome: Can nutritional intervention modify it?” *Am J of Clinical Nutrition*, 47(2): 352–356.

“Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Feeding Tube data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20734 through 20735). In that proposed rule, we stated that the proposal was informed by input we received on an Enteral Nutrition data element (the Enteral Nutrition data item is the same as the data element we are proposing in this proposed rule, but is used in the OASIS under a different name) through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 supported the data element, noting the importance of assessing enteral nutrition status for facilitating care coordination and care transitions. After the public comment period, the Enteral Nutrition data element used in public comment was renamed Feeding Tube, indicating the presence of an assistive device. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general. In addition, a commenter recommended that the term “enteral feeding” be used instead of “feeding tube”.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Feeding Tube data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Feeding Tube data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Feeding Tube data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at

<https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Feeding Tube data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADES) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for feeding tubes, stakeholder input, and strong test results, we are proposing that the Feeding Tube data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Feeding Tube data element as standardized patient assessment data for use in the IRF QRP.

• Nutritional Approach: Mechanically Altered Diet

We are proposing that the Mechanically Altered Diet data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20735 through 20736), the Mechanically Altered Diet data element refers to food that has been altered to make it easier for the patient or resident to chew and swallow, and this type of diet is used for patients and residents who have difficulty performing these functions. Patients with severe malnutrition are at higher risk for a variety of complications.⁹³

In PAC settings, there are a variety of reasons that patients and residents may have impairments related to oral feedings, including clinical or cognitive status. The provision of a mechanically altered diet may be resource intensive, and can signal difficulties associated with swallowing/eating safety, including dysphagia. In other cases, it signifies the type of altered food source, such as ground or puree that will enable the safe and thorough ingestion of nutritional substances and ensure safe and adequate delivery of nourishment to the patient. Often, patients and residents on mechanically altered diets also require additional nursing support, such as individual feeding or direct observation, to ensure the safe consumption of the food product. Therefore, assessing whether a patient or resident requires a mechanically altered diet is important for care planning and resource identification.

The proposed data element consists of the single Mechanically Altered Diet data element. The proposed data element is currently included on the MDS for SNFs. A related data element (“Modified food consistency/supervision”) is currently included on the IRF-PAI for IRFs. Another related data element is included in the OASIS for HHAs that collects information about independent eating that requires “a liquid, pureed or ground meat diet.” We are proposing to replace the existing Modified food consistency/supervision data element in the IRF-PAI to the Mechanically Altered Diet data element. For more information on the Mechanically Altered Diet data element, we refer readers to the document titled

⁹³ Dempsey, D.T., Mullen, J.L., & Buzby, G.P. (1988). “The link between nutritional status and clinical outcome: Can nutritional intervention modify it?” *Am J of Clinical Nutrition*, 47(2): 352–356.

“Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Mechanically Altered Diet data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20735 through 20736). In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general; no additional comments were received that were specific to the Mechanically Altered Diet data element.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Mechanically Altered Diet data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Mechanically Altered Diet data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Mechanically Altered Diet data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Mechanically Altered Diet data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for mechanically altered diet, stakeholder input, and strong test results, we are proposing that the Mechanically Altered Diet data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Mechanically Altered Diet data element as standardized patient assessment data for use in the IRF QRP.

- **Nutritional Approach: Therapeutic Diet**

We are proposing that the Therapeutic Diet data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20736), a therapeutic diet refers to meals planned to increase, decrease, or eliminate specific foods or nutrients in a patient’s or resident’s diet, such as a low-salt diet, for the purpose of treating a medical condition. The use of therapeutic diets among patients and residents in PAC provides insight on the clinical complexity of these patients and residents and their multiple comorbidities. Therapeutic diets are less resource intensive from the bedside nursing perspective, but do signify one or more underlying clinical conditions that preclude the patient from eating a regular diet. The communication among PAC providers about whether a patient is receiving a particular therapeutic diet

is critical to ensure safe transitions of care.

The proposed data element consists of the single Therapeutic Diet data element. This data element is currently in use in the MDS in SNFs. For more information on the Therapeutic Diet data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Therapeutic Diet data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20736). In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of the special services, treatments, and interventions data elements in general. One commenter recommended that the definition of Therapeutic Diet be aligned with the Academy of Nutrition and Dietetics’ definition and that “medically altered diet” be added to the list of nutritional approaches.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Therapeutic Diet data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Therapeutic Diet data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Therapeutic Diet data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. Although the TEP did not specifically discuss the Therapeutic Diet data element, the TEP supported the assessment of the special services, treatments, and interventions included in the National Beta Test with respect to both admission and discharge. A summary of the September 17, 2018 TEP

meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for therapeutic diet, stakeholder input, and strong test results, we are proposing that the Therapeutic Diet data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the Therapeutic Diet data element as standardized patient assessment data for use in the IRF QRP.

- **High-Risk Drug Classes: Use and Indication**

We are proposing that the High-Risk Drug Classes: Use and Indication data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act.

Most patients and residents receiving PAC services depend on short- and long-term medications to manage their medical conditions. However, as a treatment, medications are not without risk; medications are, in fact, a leading cause of adverse events. A study by the U.S. Department of Health and Human Services found that 31 percent of adverse events that occurred in 2008 among hospitalized Medicare beneficiaries were related to

medication.⁹⁴ Moreover, changes in a patient’s condition, medications, and transitions between care settings put patients at risk of medication errors and adverse drug events (ADEs). ADEs may be caused by medication errors such as drug omissions, errors in dosage, and errors in dosing frequency.⁹⁵

ADEs are known to occur across different types of healthcare settings. For example, the incidence of ADEs in the outpatient setting has been estimated at 1.15 ADEs per 100 person-months,⁹⁶ while the rate of ADEs in the long-term care setting is approximately 9.80 ADEs per 100 resident-months.⁹⁷ In the hospital setting, the incidence has been estimated at 15 ADEs per 100 admissions.⁹⁸ In addition, approximately half of all hospital-related medication errors and 20 percent of ADEs occur during transitions within, admission to, transfer to, or discharge from a hospital.⁹⁹ 100 101 ADEs are more common among older adults, who make up most patients receiving PAC services. The rate of emergency department visits for ADEs is three times higher among adults 65 years of age and older compared to that among those younger than age 65.¹⁰²

Understanding the types of medication a patient is taking, and the reason for its use, are key facets of a

patient’s treatment with respect to medication. Some classes of drugs are associated with more risk than others.¹⁰³ We are proposing one High-Risk Drug Class data element with six sub-elements. The six medication classes response options are: Anticoagulants, antiplatelets, hypoglycemics (including insulin), opioids, antipsychotics, and antibiotics. These drug classes are high-risk due to the adverse effects that may result from use. In particular, bleeding risk is associated with anticoagulants and antiplatelets;¹⁰⁴ 105 fluid retention, heart failure, and lactic acidosis are associated with hypoglycemics;¹⁰⁶ misuse is associated with opioids;¹⁰⁷ fractures and strokes are associated with antipsychotics;¹⁰⁸ 109 and various adverse events, such as central nervous systems effects and gastrointestinal intolerance, are associated with antimicrobials,¹¹⁰ the larger category of medications that include antibiotics. Moreover, some medications in five of the six drug classes included in this data element are included in the 2019 Updated Beers Criteria® list as potentially inappropriate medications for use in older adults.¹¹¹ Finally, although a complete medication list should record several important attributes of each medication (for example, dosage, route, stop date),

¹⁰³ Ibid.

¹⁰⁴ Shoen M, Fang MC. Assessing bleeding risk in patients taking anticoagulants. *J Thromb Thrombolysis*. 2013;35(3):312–319. doi: 10.1007/s11239-013-0899-7.

¹⁰⁵ Melkonian M, Jarzabowski W, Pautas E. Bleeding risk of antiplatelet drugs compared with oral anticoagulants in older patients with atrial fibrillation: a systematic review and meta-analysis. *J Thromb Haemost*. 2017;15:1500–1510. DOI: 10.1111/jth.13697.

¹⁰⁶ Hamnvik OP, McMahon GT. Balancing Risk and Benefit with Oral Hypoglycemic Drugs. *The Mount Sinai journal of medicine*, New York. 2009; 76:234–243.

¹⁰⁷ Naples JG, Gellad WF, Hanlon JT. The Role of Opioid Analgesics in Geriatric Pain Management. *Clin Geriatr Med*. 2016;32(4):725–735.

¹⁰⁸ Rigler SK, Shireman TI, Cook-Wiens GJ, Ellerbeck EF, Whittle JC, Mehr DR, Mahnken JD. Fracture risk in nursing home residents initiating antipsychotic medications. *J Am Geriatr Soc*. 2013; 61(5):715–722. [PubMed: 23590366].

¹⁰⁹ Wang S, Linkletter C, Dore D et al. Age, antipsychotics, and the risk of ischemic stroke in the Veterans Health Administration. *Stroke* 2012;43:28–31. doi:10.1161/STROKEAHA.111.617191.

¹¹⁰ Faulkner CM, Cox HL, Williamson JC. Unique aspects of antimicrobial use in older adults. *Clin Infect Dis*. 2005;40(7):997–1004.

¹¹¹ American Geriatrics Society 2019 Beers Criteria Update Expert Panel. American Geriatrics Society 2019 Updated Beers Criteria for Potentially Inappropriate Medication Use in Older Adults. *J Am Geriatr Soc* 2019; 00:1–21.

⁹⁴ U.S. Department of Health and Human Services. Office of Inspector General. Daniel R. Levinson. Adverse Events in Hospitals: National Incidence Among Medicare Beneficiaries. OEI-06–09–00090. November 2010.

⁹⁵ Boockvar KS, Liu S, Goldstein N, Nebeker J, Siu A, Fried T. Prescribing discrepancies likely to cause adverse drug events after patient transfer. *Qual Saf Health Care*. 2009;18(1):32–6.

⁹⁶ Gandhi TK, Seger AC, Overhage JM, et al. Outpatient adverse drug events identified by screening electronic health records. *J Patient Saf* 2010;6:91–6. doi:10.1097/PTS.0b013e3181dcae06.

⁹⁷ Gurwitz JH, Field TS, Judge J, Rochon P, Harrold LR, Cadoret C, et al. The incidence of adverse drug events in two large academic long-term care facilities. *Am J Med*. 2005; 118(3):251±8. Epub 2005/03/05. <https://doi.org/10.1016/j.amjmed.2004.09.018> PMID: 15745723.

⁹⁸ Hug BL, Witkowski DJ, Sox CM, Keohane CA, Seger DL, Yoon C, Matheny ME, Bates DW. Occurrence of adverse, often preventable, events in community hospitals involving nephrotoxic drugs or those excreted by the kidney. *Kidney Int*. 2009; 76:1192–1198. [PubMed: 19759525].

⁹⁹ Barnsteiner JH. Medication reconciliation: transfer of medication information across settings-keeping it free from error. *J Infus Nurs*. 2005;28(2 Suppl):31–36.

¹⁰⁰ Rozich J, Roger, R. Medication safety: one organization’s approach to the challenge. *Journal of Clinical Outcomes Management*. 2001(8):27–34.

¹⁰¹ Gleason KM, Groszek JM, Sullivan C, Rooney D, Barnard C, Noskin GA. Reconciliation of discrepancies in medication histories and admission orders of newly hospitalized patients. *Am J Health Syst Pharm*. 2004;61(16):1689–1695.

¹⁰² Shehab N, Lovegrove MC, Geller AI, Rose KO, Weidle NJ, Budnitz DS. US emergency department visits for outpatient adverse drug events, 2013–2014. *JAMA*. doi: 10.1001/jama.2016.16201.

recording an indication for the drug is of crucial importance.¹¹²

The High-Risk Drug Classes: Use and Indication data element requires an assessor to record whether or not a patient is taking any medications within six the drug classes. The six response options for this data element are high-risk drug classes with particular relevance to PAC patients and residents, as identified by our data element contractor. The six data element response options are Anticoagulants, Antiplatelets, Hypoglycemics, Opioids, Antipsychotics, and Antibiotics. For each drug class, the assessor is asked to indicate if the patient is taking any medications within the class, and, for drug classes in which medications were being taken, whether indications for all drugs in the class are noted in the medical record. For example, for the response option Anticoagulants, if the assessor indicates that the patient has received anticoagulant medication, the assessor would then indicate if an indication is recorded in the medication record for the anticoagulant(s).

The High-Risk Drug Classes: Use and Indication data element that is being proposed as a SPADE was developed as part of a larger set of data elements to assess medication reconciliation, the process of obtaining a patient's multiple medication lists and reconciling any discrepancies. For more information on the High-Risk Drug Classes: Use and Indication data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We sought public input on the relevance of conducting assessments on medication reconciliation and specifically on the proposed High-Risk Drug Classes: Use and Indication data element. Our data element contractor presented data elements related to medication reconciliation to the TEP convened on April 6 and 7, 2016. The TEP supported a focus on high-risk drugs, because of higher potential for harm to patients and residents, and were in favor of a data element to capture whether or not indications for medications were recorded in the medical record. A summary of the April

6 and 7, 2016 TEP meeting titled "SPADE Technical Expert Panel Summary (First Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>. Medication reconciliation data elements were also discussed at a second TEP meeting on January 5 and 6, 2017, convened by our data element contractor. At this meeting, the TEP agreed about the importance of evaluating the medication reconciliation process, but disagreed about how this could be accomplished through standardized assessment. The TEP also disagreed about the usability and appropriateness of using the Beers Criteria to identify high-risk medications.¹¹³ A summary of the January 5 and 6, 2017 TEP meeting titled "SPADE Technical Expert Panel Summary (Second Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also solicited public input on data elements related to medication reconciliation during a public input period from April 26 to June 26, 2017. Several commenters expressed support for the medication reconciliation data elements that were put on display, noting the importance of medication reconciliation in preventing medication errors and stated that the items seemed feasible and clinically useful. A few commenters were critical of the choice of 10 drug classes posted during that comment period, arguing that ADEs are not limited to high-risk drugs, and raised issues related to training assessors to correctly complete a valid assessment of medication reconciliation. A summary report for the April 26 to June 26, 2017 public comment period titled "SPADE May–June 2017 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The High-Risk Drug Classes: Use and Indication data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to

August 2018. Results of this test found the High-Risk Drug Classes: Use and Indication data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the High-Risk Drug Classes: Use and Indication data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018, for the purpose of soliciting input on the proposed standardized patient assessment data elements. The TEP acknowledged the challenges of assessing medication safety, but were supportive of some of the data elements focused on medication reconciliation that were tested in the National Beta Test. The TEP was especially supportive of the focus on the six high-risk drug classes and using these classes to assess whether the indication for a drug is recorded. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. These activities provided updates on the field-testing work and solicited feedback on data elements considered for standardization, including the High-Risk Drug Classes: Use and Indication data element. One stakeholder group was critical of the six drug classes included as response options in the High-Risk Drug Classes: Use and Indication data element, noting that potentially risky medications (for example, muscle relaxants) are not included in this list; that there may be important differences between drugs within classes (for example, more recent versus older style antidepressants); and that drug allergy information is not captured. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders

¹¹² Li Y, Salmasian H, Harpaz R, Chase H, Friedman C. Determining the reasons for medication prescriptions in the EHR using knowledge and natural language processing. AMIA Annu Symp Proc. 2011;2011:768–76.

¹¹³ American Geriatrics Society 2015 Beers Criteria Update Expert Panel. American Geriatrics Society. Updated Beers Criteria for Potentially Inappropriate Medication Use in Older Adults. *J Am Geriatr Soc* 2015; 63:2227–2246.

to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. Additionally, one commenter questioned whether the time to complete the High-Risk Drug Classes: Use and Indication data element would differ across settings. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADES) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing high-risk drugs and for whether or not indications are noted for high-risk drugs, stakeholder input, and strong test results, we are proposing that the High-Risk Drug Classes: Use and Indication data element meets the definition of standardized patient assessment data with respect to special services, treatments, and interventions under section 1899B(b)(1)(B)(iii) of the Act and to adopt the High-Risk Drug Classes: Use and Indication data element as standardized patient assessment data for use in the IRF QRP.

3. Medical Condition and Comorbidity Data

Assessing medical conditions and comorbidities is critically important for care planning and safety for patients and residents receiving PAC services, and the standardized assessment of selected medical conditions and comorbidities across PAC providers is important for managing care transitions and understanding medical complexity.

Below we discuss our proposals for data elements related to the medical condition of pain as standardized patient assessment data. Appropriate pain management begins with a standardized assessment, and thereafter establishing and implementing an overall plan of care that is person-centered, multi-modal, and includes the treatment team and the patient.

Assessing and documenting the effect of pain on sleep, participation in therapy, and other activities may provide information on undiagnosed conditions and comorbidities and the level of care required, and do so more objectively than subjective numerical scores. With that, we assess that taken separately and

together, these proposed data elements are essential for care planning, consistency across transitions of care, and identifying medical complexities including undiagnosed conditions. We also conclude that it is the standard of care to always consider the risks and benefits associated with a personalized care plan, including the risks of any pharmacological therapy, especially opioids.¹¹⁴ We also conclude that in addition to assessing and appropriately treating pain through the optimum mix of pharmacologic, non-pharmacologic, and alternative therapies, while being cognizant of current prescribing guidelines, clinicians in partnership with patients are best able to mitigate factors that contribute to the current opioid crisis.^{115 116 117}

In alignment with our Meaningful Measures Initiative, accurate assessment of medical conditions and comorbidities of patients and residents in PAC is expected to make care safer by reducing harm caused in the delivery of care; promote effective prevention and treatment of chronic disease; strengthen person and family engagement as partners in their care; and promote effective communication and coordination of care. The SPADES will enable or support: Clinical decision-making and early clinical intervention; person-centered, high quality care through: Facilitating better care continuity and coordination; better data exchange and interoperability between settings; and longitudinal outcome analysis. Therefore, reliable data elements assessing medical conditions and comorbidities are needed to initiate a management program that can optimize a patient's or resident's prognosis and reduce the possibility of adverse events.

¹¹⁴ Department of Health and Human Services: Pain Management Best Practices Inter-Agency Task Force. *Draft Report on Pain Management Best Practices: Updates, Gaps, Inconsistencies, and Recommendations*. Accessed April 1, 2019. <https://www.hhs.gov/sites/default/files/final-pmtf-draft-report-on-pain-management%20best-practices-2018-12-12-html-ready-clean.pdf>.

¹¹⁵ Department of Health and Human Services: Pain Management Best Practices Inter-Agency Task Force. *Draft Report on Pain Management Best Practices: Updates, Gaps, Inconsistencies, and Recommendations*. Accessed April 1, 2019. <https://www.hhs.gov/sites/default/files/final-pmtf-draft-report-on-pain-management%20best-practices-2018-12-12-html-ready-clean.pdf>.

¹¹⁶ Fishman SM, Carr DB, Hogans B, et al. Scope and Nature of Pain- and Analgesia-Related Content of the United States Medical Licensing Examination (USMLE). *Pain Med Malden Mass*. 2018;19(3):449–459. doi:10.1093/pm/pnx336.

¹¹⁷ Fishman SM, Young HM, Lucas Arwood E, et al. Core competencies for pain management: results of an interprofessional consensus summit. *Pain Med Malden Mass*. 2013;14(7):971–981. doi:10.1111/pme.12107.

We are inviting comment that applies specifically to the standardized patient assessment data for the category of medical conditions and co-morbidities, specifically on:

- Pain Interference (Pain Effect on Sleep, Pain Interference With Therapy Activities, and Pain Interference With Day-to-Day Activities)

In acknowledgement of the opioid crisis, we specifically are seeking comment on whether or not we should add these pain items in light of those concerns. Commenters should address to what extent the collection of the SPADES described below through patient queries might encourage providers to prescribe opioids.

We are proposing that a set of three data elements on the topic of Pain Interference (Pain Effect on Sleep, Pain Interference with Therapy Activities, and Pain Interference with Day-to-Day Activities) meet the definition of standardized patient assessment data with respect to medical condition and comorbidity data under section 1899B(b)(1)(B)(iv) of the Act.

The practice of pain management began to undergo significant changes in the 1990s because the inadequate, non-standardized, non-evidence-based assessment and treatment of pain became a public health issue.¹¹⁸ In pain management, a critical part of providing comprehensive care is performance of a thorough initial evaluation, including assessment of both the medical and any biopsychosocial factors causing or contributing to the pain, with a treatment plan to address the causes of pain and to manage pain that persists over time.¹¹⁹ Quality pain management, based on current guidelines and evidence-based practices, can minimize unnecessary opioid prescribing both by offering alternatives or supplemental treatment to opioids and by clearly stating when they may be appropriate, and how to utilize risk-benefit analysis for opioid and non-opioid treatment modalities.¹²⁰

¹¹⁸ Institute of Medicine. *Relieving Pain in America: A Blueprint for Transforming Prevention, Care, Education, and Research*. Washington (DC): National Academies Press (U.S.); 2011. <http://www.ncbi.nlm.nih.gov/books/NBK91497/>.

¹¹⁹ Department of Health and Human Services: Pain Management Best Practices Inter-Agency Task Force. *Draft Report on Pain Management Best Practices: Updates, Gaps, Inconsistencies, and Recommendations*. Accessed April 1, 2019. <https://www.hhs.gov/sites/default/files/final-pmtf-draft-report-on-pain-management%20best-practices-2018-12-12-html-ready-clean.pdf>.

¹²⁰ National Academies. *Pain Management and the Opioid Epidemic: Balancing Societal and Individual Benefits and Risks of Prescription Opioid Use*. Washington, DC National Academies of Sciences, Engineering, and Medicine; 2017.

Pain is not a surprising symptom in PAC patients and residents, where healing, recovery, and rehabilitation often require regaining mobility and other functions after an acute event. Standardized assessment of pain that interferes with function is an important first step towards appropriate pain management in PAC settings. The National Pain Strategy called for refined assessment items on the topic of pain, and describes the need for these improved measures to be implemented in PAC assessments.¹²¹ Further, the focus on pain *interference*, as opposed to pain intensity or pain frequency, was supported by the TEP convened by our data element contractor as an appropriate and actionable metric for assessing pain. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We appreciate the important concerns related to the misuse and overuse of opioids in the treatment of pain and to that end we note that in this proposed rule we have also proposed a SPADE that assess for the use of, as well as importantly the indication for that use of, high risk drugs, including opioids. Further, in the FY 2017 IRF PPS final rule (81 FR 52111) we adopted the Drug Regimen Review Conducted With Follow-Up for Identified Issues—Post Acute Care (PAC) IRF QRP measure which assesses whether PAC providers were responsive to potential or actual clinically significant medication issue(s), which includes issues associated with use and misuse of opioids for pain management, when such issues were identified.

We also note that the proposed SPADE related to pain assessment are not associated with any particular approach to management. Since the use of opioids is associated with serious complications, particularly in the elderly,^{122 123 124} an array of successful

non-pharmacologic and non-opioid approaches to pain management may be considered. PAC providers have historically used a range of pain management strategies, including non-steroidal anti-inflammatory drugs, ice, transcutaneous electrical nerve stimulation (TENS) therapy, supportive devices, acupuncture, and the like. In addition, non-pharmacological interventions for pain management include, but are not limited to, biofeedback, application of heat/cold, massage, physical therapy, nerve block, stretching and strengthening exercises, chiropractic, electrical stimulation, radiotherapy, and ultrasound.^{125 126 127}

We believe that standardized assessment of pain interference will support PAC clinicians in applying best-practices in pain management for chronic and acute pain, consistent with current clinical guidelines. For example, the standardized assessment of both opioids and pain interference would support providers in successfully tapering patients/residents who arrive in the PAC setting with long-term opioid use off of opioids onto non-pharmacologic treatments and non-opioid medications, as recommended by the Society for Post-Acute and Long-Term Care Medicine,¹²⁸ and consistent with HHS’s 5-Point Strategy To Combat the Opioid Crisis¹²⁹ which includes “Better Pain Management.”

The Pain Interference data elements consist of three data elements: Pain Effect on Sleep, Pain Interference with Therapy Activities, and Pain Interference with Day-to-Day Activities. Pain Effect on Sleep assesses the frequency with which pain effects a resident’s sleep. Pain Interference with Therapy Activities assesses the frequency with which pain interferes with a resident’s ability to participate in therapies. The Pain Interference with Day-to-Day Activities assesses the extent to which pain interferes with a

resident’s ability to participate in day-to-day activities excluding therapy.

A similar data element on the effect of pain on activities is currently included in the OASIS. A similar data element on the effect on sleep is currently included in the MDS instrument. For more information on the Pain Interference data elements, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We sought public input on the relevance of conducting assessments on pain and specifically on the larger set of Pain Interview data elements included in the National Beta Test. The proposed data elements were supported by comments from the TEP meeting held by our data element contractor on April 7 to 8, 2016. The TEP affirmed the feasibility and clinical utility of pain as a concept in a standardized assessment. The TEP agreed that data elements on pain interference with ability to participate in therapies versus other activities should be addressed. Further, during a more recent convening of the same TEP on September 17, 2018, the TEP supported the interview-based pain data elements included in the National Beta Test. The TEP members were particularly supportive of the items that focused on how pain interferes with activities (that is, Pain Interference data elements), because understanding the extent to which pain interferes with function would enable clinicians to determine the need for appropriate pain treatment. A summary of the September 17, 2018 TEP meeting titled “SPADE Technical Expert Panel Summary (Third Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We held a public input period in 2016 to solicit feedback on the standardization of pain and several other items that were under development in prior efforts. From the prior public comment period, we included several pain data elements (Pain Effect on Sleep; Pain Interference—Therapy Activities; Pain Interference—Other Activities) in a second call for public input, open from April 26 to June 26, 2017. The items we sought comment on were modified from

¹²¹ National Pain Strategy: A Comprehensive Population-Health Level Strategy for Pain. https://iprc.nih.gov/sites/default/files/HHSNational_Pain_Strategy_508C.pdf.

¹²² Chau, D.L., Walker, V., Pai, L., & Cho, L.M. (2008). Opiates and elderly: use and side effects. *Clinical interventions in aging*, 3(2), 273–8.

¹²³ Fine, P.G. (2009). Chronic Pain Management in Older Adults: Special Considerations. *Journal of Pain and Symptom Management*, 38(2): S4–S14.

¹²⁴ Solomon, D.H., Rassen, J.A., Glynn, R.J., Garneau, K., Levin, R., Lee, J., & Schneeweiss, S. (2010). *Archives Internal Medicine*, 170(22):1979–1986.

¹²⁵ Byrd L. Managing chronic pain in older adults: a long-term care perspective. *Annals of Long-Term Care: Clinical Care and Aging*. 2013;21(12):34–40.

¹²⁶ Kligler, B., Bair, M.J., Banerjee, R. et al. (2018). Clinical Policy Recommendations from the VHA State-of-the-Art Conference on Non-Pharmacological Approaches to Chronic Musculoskeletal Pain. *Journal of General Internal Medicine*, 33(Suppl 1): 16. <https://doi.org/10.1007/s11606-018-4323-z>.

¹²⁷ Chou, R., Deyo, R., Friedly, J., et al. (2017). Nonpharmacologic Therapies for Low Back Pain: A Systematic Review for an American College of Physicians Clinical Practice Guideline. *Annals of Internal Medicine*, 166(7):493–505.

¹²⁸ Society for Post-Acute and Long-Term Care Medicine (AMDA). (2018). Opioids in Nursing Homes: Position Statement. <https://paltc.org/opioids%20in%20nursing%20homes>.

¹²⁹ <https://www.hhs.gov/opioids/about-the-epidemic/hhs-response/index.html>.

all stakeholder and test efforts. Commenters provided general comments about pain assessment in general in addition to feedback on the specific pain items. A few commenters shared their support for assessing pain, the potential for pain assessment to improve the quality of care, and for the validity and reliability of the data elements. Commenters affirmed that the item of pain and the effect on sleep would be suitable for PAC settings. Commenters' main concerns included redundancy with existing data elements, feasibility and utility for cross-setting use, and the applicability of interview-based items to patients and residents with cognitive or communication impairments, and deficits. A summary report for the April 26 to June 26, 2017 public comment period titled "SPADE May-June 2017 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Pain Interference data elements were included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Pain Interference data elements to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Pain Interference data elements in the National Beta Test can be found in the document titled "Proposed Specifications for SNF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on September 17, 2018 for the purpose of soliciting input on the standardized patient assessment data elements. The TEP supported the interview-based pain data elements included in the National Beta Test. The TEP members were particularly supportive of the items that focused on how pain interferes with activities (that is, Pain Interference data elements), because understanding the extent to which pain interferes with function would enable clinicians to determine the need for pain treatment. A summary of the September 17, 2018 TEP meeting titled "SPADE Technical Expert Panel Summary (Third Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our on-going SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. Additionally, one commenter expressed strong support for the Pain data elements and was encouraged by the fact that this portion of the assessment goes beyond merely measuring the presence of pain. A summary of the public input received from the November 27, 2018 stakeholder meeting titled "Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Taking together the importance of assessing for the effect of pain on function, stakeholder input, and strong test results, we are proposing that the three Pain Interference data elements (Pain Effect on Sleep, Pain Interference with Therapy Activities, and Pain Interference with Day-to-Day Activities) meet the definition of standardized patient assessment data with respect to medical conditions and comorbidities under section 1899B(b)(1)(B)(iv) of the Act and to adopt the Pain Interference data elements (Pain Effect on Sleep; Pain Interference with Therapy Activities; and Pain Interference with Day-to-Day Activities) as standardized patient assessment data for use in the IRF QRP.

4. Impairment Data

Hearing and vision impairments are conditions that, if unaddressed, affect activities of daily living, communication, physical functioning, rehabilitation outcomes, and overall quality of life. Sensory limitations can lead to confusion in new settings, increase isolation, contribute to mood disorders, and impede accurate

assessment of other medical conditions. Failure to appropriately assess, accommodate, and treat these conditions increases the likelihood that patients and residents will require more intensive and prolonged treatment. Onset of these conditions can be gradual, so individualized assessment with accurate screening tools and follow-up evaluations are essential to determining which patients and residents need hearing- or vision-specific medical attention or assistive devices and accommodations, including auxiliary aids and/or services, and to ensure that person-directed care plans are developed to accommodate a patient's or resident's needs. Accurate diagnosis and management of hearing or vision impairment would likely improve rehabilitation outcomes and care transitions, including transition from institutional-based care to the community. Accurate assessment of hearing and vision impairment would be expected to lead to appropriate treatment, accommodations, including the provision of auxiliary aids and services during the stay, and ensure that patients and residents continue to have their vision and hearing needs met when they leave the facility.

In alignment with our Meaningful Measures Initiative, we expect accurate and individualized assessment, treatment, and accommodation of hearing and vision impairments of patients and residents in PAC to make care safer by reducing harm caused in the delivery of care; promote effective prevention and treatment of chronic disease; strengthen person and family engagement as partners in their care; and promote effective communication and coordination of care. For example, standardized assessment of hearing and vision impairments used in PAC will support ensuring patient safety (for example, risk of falls), identifying accommodations needed during the stay, and appropriate support needs at the time of discharge or transfer. Standardized assessment of these data elements will: Enable or support clinical decision-making and early clinical intervention; person-centered, high quality care (for example, facilitating better care continuity and coordination); better data exchange and interoperability between settings; and longitudinal outcome analysis. Therefore, reliable data elements assessing hearing and vision impairments are needed to initiate a management program that can optimize a patient's or resident's prognosis and reduce the possibility of adverse events. Comments on the category of impairments were also submitted by

stakeholders during the FY 2018 IRF PPS proposed rule (82 FR 20737 through 20739) public comment period. A commenter stated hearing and vision assessments should be administered at the beginning of the assessment process to provide evidence about any sensory deficits that may affect the patient's ability to participate in the assessment and to allow the assessor to offer an assistive device.

We are inviting comment on our proposals to collect as standardized patient assessment data the following data with respect to impairments.

- Hearing

We are proposing that the Hearing data element meets the definition of standardized patient assessment data with respect to impairments under section 1899B(b)(1)(B)(v) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20737 through 20738), accurate assessment of hearing impairment is important in the PAC setting for care planning and resource use. Hearing impairment has been associated with lower quality of life, including poorer physical, mental, social functioning, and emotional health.^{130 131} Treatment and accommodation of hearing impairment led to improved health outcomes including, but not limited to, quality of life.¹³² For example, hearing loss in elderly individuals has been associated with depression and cognitive impairment,^{133 134 135} higher rates of incident cognitive impairment and cognitive decline,¹³⁶ and less time in

occupational therapy.¹³⁷ Accurate assessment of hearing impairment is important in the PAC setting for care planning and defining resource use.

The proposed data element consists of the single Hearing data element. This data consists of one question that assesses level of hearing impairment. This data element is currently in use in the MDS in SNFs. For more information on the Hearing data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Hearing data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20737 through 20738). In that proposed rule, we stated that the proposal was informed by input we received on the PAC PRD form of the data element (“Ability to Hear”) through a call for input published on the CMS Measures Management System Blueprint website. Input submitted from August 12 to September 12, 2016 recommended that hearing, vision, and communication assessments be administered at the beginning of patient assessment process. A summary report for the August 12 to September 12, 2016 public comment period titled “SPADE August 2016 Public Comment Summary Report” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received public comments in support of adopting the Hearing data element for standardized cross-setting use, noting that it would help address the needs of patient and residents with disabilities and that failing to identify impairments during the initial assessment can result in inaccurate diagnoses of impaired language or cognition and can invalidate other information obtained from patient assessment.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Hearing data element was included in the National Beta Test of candidate data

elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Hearing data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Hearing data element in the National Beta Test can be found in the document titled “Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on January 5 and 6, 2017 for the purpose of soliciting input on all the SPADEs, including the Hearing data element. The TEP affirmed the importance of standardized assessment of hearing impairment in PAC patients and residents. A summary of the January 5 and 6, 2017 TEP meeting titled “SPADE Technical Expert Panel Summary (Second Convening)” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. Additionally, a commenter expressed support for the Hearing data element and suggested administration at the beginning of the patient assessment to maximize utility. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Due to the relatively stable nature of hearing impairment, it is unlikely that a

¹³⁰ Dalton DS, Cruickshanks KJ, Klein BE, Klein R, Wiley TL, Nondahl DM. The impact of hearing loss on quality of life in older adults. *Gerontologist*. 2003;43(5):661–668.

¹³¹ Hawkins K, Bottone FG, Jr., Ozminkowski RJ, et al. The prevalence of hearing impairment and its burden on the quality of life among adults with Medicare Supplement Insurance. *Qual Life Res*. 2012;21(7):1135–1147.

¹³² Horn KL, McMahon NB, McMahon DC, Lewis JS, Barker M, Gherini S. Functional use of the Nucleus 22-channel cochlear implant in the elderly. *The Laryngoscope*. 1991;101(3):284–288.

¹³³ Sprinzi GM, Riechelmann H. Current trends in treating hearing loss in elderly people: a review of the technology and treatment options—a mini-review. *Gerontology*. 2010;56(3):351–358.

¹³⁴ Lin FR, Thorpe R, Gordon-Salant S, Ferrucci L. Hearing Loss Prevalence and Risk Factors Among Older Adults in the United States. *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences*. 2011;66A(5):582–590.

¹³⁵ Hawkins K, Bottone FG, Jr., Ozminkowski RJ, et al. The prevalence of hearing impairment and its burden on the quality of life among adults with Medicare Supplement Insurance. *Qual Life Res*. 2012;21(7):1135–1147.

¹³⁶ Lin FR, Metter EJ, O'Brien RJ, Resnick SM, Zonderman AB, Ferrucci L. Hearing Loss and Incident Dementia. *Arch Neurol*. 2011;68(2):214–220.

¹³⁷ Cimarolli VR, Jung S. Intensity of Occupational Therapy Utilization in Nursing Home Residents: The Role of Sensory Impairments. *J Am Med Dir Assoc*. 2016;17(10):939–942.

patient's score on this assessment would change between the start and end of the IRF stay. Therefore, we are proposing that IRFs that submit the Hearing data element with respect to admission will be considered to have submitted with respect to discharge as well.

Taking together the importance of assessing for hearing, stakeholder input, and strong test results, we are proposing that the Hearing data element meets the definition of standardized patient assessment data with respect to impairments under section 1899B(b)(1)(B)(v) of the Act and to adopt the Hearing data element as standardized patient assessment data for use in the IRF QRP.

• Vision

We are proposing that the Vision data element meets the definition of standardized patient assessment data with respect to impairments under section 1899B(b)(1)(B)(v) of the Act.

As described in the FY 2018 IRF PPS proposed rule (82 FR 20738 through 20739), evaluation of an individual's ability to see is important for assessing for risks such as falls and provides opportunities for improvement through treatment and the provision of accommodations, including auxiliary aids and services, which can safeguard patients and residents and improve their overall quality of life. Further, vision impairment is often a treatable risk factor associated with adverse events and poor quality of life. For example, individuals with visual impairment are more likely to experience falls and hip fracture, have less mobility, and report depressive symptoms.^{138 139 140 141 142 143 144}

Individualized initial screening can lead

to life-improving interventions such as accommodations, including the provision of auxiliary aids and services, during the stay and/or treatments that can improve vision and prevent or slow further vision loss. In addition, vision impairment is often a treatable risk factor associated with adverse events which can be prevented and accommodated during the stay. Accurate assessment of vision impairment is important in the IRF setting for care planning and defining resource use.

The proposed data element consists of the single Vision data element (Ability To See in Adequate Light) that consists of one question with five response categories. The Vision data element that we are proposing for standardization was tested as part of the development of the MDS and is currently in use in that assessment in SNFs. Similar data elements, but with different wording and fewer response option categories, are in use in the OASIS. For more information on the Vision data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

The Vision data element was first proposed as a standardized patient assessment data element in the FY 2018 IRF PPS proposed rule (82 FR 20738 through 20739).

In that proposed rule, we stated that the proposal was informed by input we received on the Ability to See in Adequate Light data element (version tested in the PAC PRD with three response categories) through a call for input published on the CMS Measures Management System Blueprint website. Although the data element in public comment differed from the proposed data element, input submitted from August 12 to September 12, 2016 supported assessing vision in PAC settings and the useful information a vision data element would provide. We also stated that commenters had noted that the Ability to See item would provide important information that would facilitate care coordination and care planning, and consequently improve the quality of care. Other commenters suggested it would be helpful as an indicator of resource use and noted that the item would provide useful information about the abilities of patients and residents to care for themselves. Additional commenters

noted that the item could feasibly be implemented across PAC providers and that its kappa scores from the PAC PRD support its validity. Some commenters noted a preference for MDS version of the Vision data element in SNFs over the form put forward in public comment, citing the widespread use of this data element. A summary report for the August 12 to September 12, 2016 public comment period titled "SPADE August 2016 Public Comment Summary Report" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In response to our proposal in the FY 2018 IRF PPS proposed rule, we received a comment supporting having a standardized patient assessment data element for vision across PAC settings, but it stated the proposed data element captures only basic information for risk adjustment, and more detailed information would need to be collected to use it as an outcome measure.

Subsequent to receiving comments on the FY 2018 IRF PPS rule, the Vision data element was included in the National Beta Test of candidate data elements conducted by our data element contractor from November 2017 to August 2018. Results of this test found the Vision data element to be feasible and reliable for use with PAC patients and residents. More information about the performance of the Vision data element in the National Beta Test can be found in the document titled "Proposed Specifications for IRF QRP Quality Measures and Standardized Patient Assessment Data Elements," available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In addition, our data element contractor convened a TEP on January 5 and 6, 2017 for the purpose of soliciting input on all the SPADEs including the Vision data element. The TEP affirmed the importance of standardized assessment of vision impairment in PAC patients and residents. A summary of the January 5 and 6, 2017 TEP meeting titled "SPADE Technical Expert Panel Summary (Second Convening)" is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

¹³⁸ Colon-Emeric CS, Biggs DP, Schenck AP, Lyles KW. Risk factors for hip fracture in skilled nursing facilities: Who should be evaluated? *Osteoporos Int*. 2003;14(6):484–489.

¹³⁹ Freeman EE, Munoz B, Rubin G, West SK. Visual field loss increases the risk of falls in older adults: The Salisbury eye evaluation. *Invest Ophthalmol Vis Sci*. 2007;48(10):4445–4450.

¹⁴⁰ Keepnews D, Capitman JA, Rosati RJ. Measuring patient-level clinical outcomes of home health care. *J Nurs Scholarsh*. 2004;36(1):79–85.

¹⁴¹ Nguyen HT, Black SA, Ray LA, Espino DV, Markides KS. Predictors of decline in MMSE scores among older Mexican Americans. *J Gerontol A Biol Sci Med Sci*. 2002;57(3):M181–185.

¹⁴² Prager AJ, Liebmann JM, Cioffi GA, Blumberg DM. Self-reported Function, Health Resource Use, and Total Health Care Costs Among Medicare Beneficiaries With Glaucoma. *JAMA Ophthalmology*. 2016;134(4):357–365.

¹⁴³ Rovner BW, Ganguli M. Depression and disability associated with impaired vision: The MoVies Project. *J Am Geriatr Soc*. 1998;46(5):617–619.

¹⁴⁴ Tinetti ME, Ginter SF. The nursing home life-space diameter. A measure of extent and frequency of mobility among nursing home residents. *J Am Geriatr Soc*. 1990;38(12):1311–1315.

We also held Special Open Door Forums and small-group discussions with PAC providers and other stakeholders in 2018 for the purpose of updating the public about our ongoing SPADE development efforts. Finally, on November 27, 2018, our data element contractor hosted a public meeting of stakeholders to present the results of the National Beta Test and solicit additional comments. General input on the testing and item development process and concerns about burden were received from stakeholders during this meeting and via email through February 1, 2019. Additionally, a commenter expressed support for the Vision data element and suggested administration at the beginning of the patient assessment to maximize utility. A summary of the public input received from the November 27, 2018 stakeholder meeting titled “Input on Standardized Patient Assessment Data Elements (SPADEs) Received After November 27, 2018 Stakeholder Meeting” is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

Due to the relatively stable nature of vision impairment, it is unlikely that a patient’s score on this assessment would change between the start and end of the IRF stay. Therefore, we are proposing that IRFs that submit the Vision data element with respect to admission will be considered to have submitted with respect to discharge as well.

Taking together the importance of assessing for vision, stakeholder input, and strong test results, we are proposing that the Vision data element meets the definition of standardized patient assessment data with respect to impairments under section 1899B(b)(1)(B)(v) of the Act and to adopt the Vision data element as standardized patient assessment data for use in the IRF QRP.

4. Proposed New Category: Social Determinants of Health

a. Proposed Social Determinants of Health Data Collection To Inform Measures and Other Purposes

Subparagraph (A) of section 2(d)(2) of the IMPACT Act requires CMS to assess appropriate adjustments to quality measures, resource measures and other measures, and to assess and implement appropriate adjustments to payment under Medicare, based on those measures, after taking into account studies conducted by ASPE on social risk factors (described below) and other

information, and based on an individual’s health status and other factors. Subparagraph (C) of section 2(d)(2) of the IMPACT Act further requires the Secretary to carry out periodic analyses, at least every three years, based on the factors referred to in subparagraph (A) so as to monitor changes in possible relationships. Subparagraph (B) of section 2(d)(2) of the IMPACT Act requires CMS to collect or otherwise obtain access to data necessary to carry out the requirement of the paragraph (both assessing adjustments described above in such subparagraph (A) and for periodic analyses in such subparagraph (C)). Accordingly we are proposing to use our authority under subparagraph (B) of section 2(d)(2) of the IMPACT Act to establish a new data source for information to meet the requirements of subparagraphs (A) and (C) of section 2(d)(2) of the IMPACT Act. In this rule, we are proposing to collect and access data about social determinants of health (SDOH) in order to perform CMS’ responsibilities under subparagraphs (A) and (C) of section 2(d)(2) of the IMPACT Act, as explained in more detail below. Social determinants of health, also known as social risk factors, or health-related social needs, are the socioeconomic, cultural and environmental circumstances in which individuals live that impact their health. We are proposing to collect information on seven proposed SDOH SPADE data elements relating to race, ethnicity, preferred language, interpreter services, health literacy, transportation, and social isolation; a detailed discussion of each of the proposed SDOH data elements is found in section VII.G.5.b. of this proposed rule.

We are also proposing to use the assessment instrument for the IRF QRP, the IRF–PAI, described as a PAC assessment instrument under section 1899B(a)(2)(B) of the Act, to collect these data via an existing data collection mechanism. We believe this approach will provide CMS with access to data with respect to the requirements of section 2(d)(2) of the IMPACT Act, while minimizing the reporting burden on PAC health care providers by relying on a data reporting mechanism already used and an existing system to which PAC health care providers are already accustomed.

The IMPACT Act includes several requirements applicable to the Secretary, in addition to those imposing new data reporting obligations on certain PAC providers as discussed in VII.G.5.b. of this proposed rule. Subparagraphs (A) and (B) of sections 2(d)(1) of the IMPACT Act require the

Secretary, acting through the Office of the Assistant Secretary for Planning and Evaluation (ASPE), to conduct two studies that examine the effect of risk factors, including individuals’ socioeconomic status, on quality, resource use and other measures under the Medicare program. The first ASPE study was completed in December 2016 and is discussed below, and the second study is to be completed in the fall of 2019. We recognize that ASPE, in its studies, is considering a broader range of social risk factors than the SDOH data elements in this proposal, and address both PAC and non-PAC settings. We acknowledge that other data elements may be useful to understand, and that some of those elements may be of particular interest in non-PAC settings. For example, for beneficiaries receiving care in the community, as opposed to an in-patient facility, housing stability and food insecurity may be more relevant. We will continue to take into account the findings from both of ASPE’s reports in future policy making.

One of the ASPE’s first actions under the IMPACT Act was to commission the National Academies of Sciences, Engineering, and Medicine (NASEM) to define and conceptualize socioeconomic status for the purposes of ASPE’s two studies under section 2(d)(1) of the IMPACT Act. The NASEM convened a panel of experts in the field and conducted an extensive literature review. Based on the information collected, the 2016 NASEM panel report titled, “Accounting for Social Risk Factors in Medicare Payment: Identifying Social Risk Factors”, concluded that the best way to assess how social processes and social relationships influence key health-related outcomes in Medicare beneficiaries is through a framework of social risk factors instead of socioeconomic status. Social risk factors discussed in the NASEM report include socioeconomic position, race, ethnicity, gender, social context, and community context. These factors are discussed at length in chapter 2 of the NASEM report, titled “Social Risk Factors.”¹⁴⁵ Consequently NASEM framed the results of its report in terms of “social risk factors” rather than “socioeconomic status” or “sociodemographic status.” The full text of the “Social Risk Factors” NASEM report is available for reading on the website at <https://www.nap.edu/read/21858/chapter/1>.

¹⁴⁵ National Academies of Sciences, Engineering, and Medicine. 2016. *Accounting for social risk factors in Medicare payment: Identifying social risk factors*. Chapter 2. Washington, DC: The National Academies Press.

Each of the data elements we are proposing to collect and access under our authority under section 2(d)(2)(B) of the IMPACT Act is identified in the 2016 NASEM report as a social risk factor that has been shown to impact care use, cost and outcomes for Medicare beneficiaries. CMS uses the term social determinants of health (SDOH) to denote social risk factors, which is consistent with the objectives of Healthy People 2020.¹⁴⁶

ASPE issued its first Report to Congress, titled “Social Risk Factors and Performance Under Medicare’s Value-Based Purchasing Programs,” under section 2(d)(1)(A) of the IMPACT Act on December 21, 2016.¹⁴⁷ Using NASEM’s social risk factors framework, ASPE focused on the following social risk factors, in addition to disability: (1) Dual enrollment in Medicare and Medicaid as a marker for low income, (2) residence in a low-income area, (3) Black race, (4) Hispanic ethnicity; and (5) residence in a rural area. ASPE acknowledged that the social risk factors examined in its report were limited due to data availability. The report also noted that the data necessary to meaningfully attempt to reduce disparities and identify and reward improved outcomes for beneficiaries with social risk factors have not been collected consistently on a national level in post-acute care settings. Where these data have been collected, the collection frequently involves lengthy questionnaires. More information on the Report to Congress on Social Risk Factors and Performance under Medicare’s Value-Based Purchasing Programs, including the full report, is available on the website at <https://aspe.hhs.gov/social-risk-factors-and-medicare-value-based-purchasing-programs-reports>.

Section 2(d)(2) of the IMPACT Act relates to CMS activities and imposes several responsibilities on the Secretary relating to quality, resource use, and other measures under Medicare. As mentioned previously, under subparagraph (A) of section 2(d)(2) of the IMPACT Act, the Secretary is required, on an ongoing basis, taking into account the ASPE studies and other information, and based on an individual’s health status and other

factors, to assess appropriate adjustments to quality, resource use, and other measures, and to assess and implement appropriate adjustments to Medicare payments based on those measures. Section 2(d)(2)(A)(i) of the IMPACT Act applies to measures adopted under subsections (c) and (d) of section 1899B of the Act and to other measures under Medicare. However, CMS’ ability to perform these analyses, and assess and make appropriate adjustments is hindered by limits of existing data collections on SDOH data elements for Medicare beneficiaries. In its first study in 2016, in discussing the second study, ASPE noted that information relating to many of the specific factors listed in the IMPACT Act, such as health literacy, limited English proficiency, and Medicare beneficiary activation, are not available in Medicare data.

Subparagraph 2(d)(2)(A) of the IMPACT Act specifically requires the Secretary to take the studies and considerations from ASPE’s reports to Congress, as well as other information as appropriate, into account in assessing and implementing adjustments to measures and related payments based on measures in Medicare. The results of the ASPE’s first study demonstrated that Medicare beneficiaries with social risk factors tended to have worse outcomes on many quality measures, and providers who treated a disproportionate share of beneficiaries with social risk factors tended to have worse performance on quality measures. As a result of these findings, ASPE suggested a three-pronged strategy to guide the development of value-based payment programs under which all Medicare beneficiaries receive the highest quality healthcare services possible. The three components of this strategy are to: (1) Measure and report quality of care for beneficiaries with social risk factors; (2) set high, fair quality standards for care provided to all beneficiaries; and (3) reward and support better outcomes for beneficiaries with social risk factors. In discussing how measuring and reporting quality for beneficiaries with social risk factors can be applied to Medicare quality payment programs, the report offered nine considerations across the three-pronged strategy, including enhancing data collection and developing statistical techniques to allow measurement and reporting of performance for beneficiaries with social risk factors on key quality and resource use measures.

Congress, in section 2(d)(2)(B) of the IMPACT Act, required the Secretary to collect or otherwise obtain access to the

data necessary to carry out the provisions of paragraph (2) of section 2(d) of the IMPACT Act through both new and existing data sources. Taking into consideration NASEM’s conceptual framework for social risk factors discussed above, ASPE’s study, and considerations under section 2(d)(1)(A) of the IMPACT Act, as well as the current data constraints of ASPE’s first study and its suggested considerations, we are proposing to collect and access data about SDOH under section 2(d)(2) of the IMPACT Act. Our collection and use of the SDOH data described in section VII.G.5.b.(1) of this proposed rule, under section 2(d)(2) of the IMPACT Act would be independent of our proposal below (in section VII.G.5.b.(2) of this proposed rule) and our authority to require submission of that data for use as SPADE under section 1899B(a)(1)(B) of the Act.

Accessing standardized data relating to the SDOH data elements on a national level is necessary to permit CMS to conduct periodic analyses, to assess appropriate adjustments to quality measures, resource use measures, and other measures, and to assess and implement appropriate adjustments to Medicare payments based on those measures. We agree with ASPE’s observations, in the value-based purchasing context, that the ability to measure and track quality, outcomes, and costs for beneficiaries with social risk factors over time is critical as policymakers and providers seek to reduce disparities and improve care for these groups. Collecting the data as proposed will provide the basis for our periodic analyses of the relationship between an individual’s health status and other factors and quality, resource use, and other measures, as required by section 2(d)(2) of the IMPACT Act, and to assess appropriate adjustments. These data will also permit us to develop the statistical tools necessary to maximize the value of Medicare data, reduce costs and improve the quality of care for all beneficiaries. Collecting and accessing SDOH data in this way also supports the three-part strategy put forth in the first ASPE report, specifically ASPE’s consideration to enhance data collection and develop statistical techniques to allow measurement and reporting of performance for beneficiaries with social risk factors on key quality and resource use measures.

For the reasons discussed above, we are proposing under section 2(d)(2) of the IMPACT Act, to collect the data on the following SDOH: (1) Race, as described in section VII.G.5.b.(1) of this proposed rule; (2) Ethnicity, as described in section VII.G.5.b.(1) of this

¹⁴⁶ Social Determinants of Health. Healthy People 2020. <https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health>. (February 2019).

¹⁴⁷ U.S. Department of Health and Human Services, Office of the Assistant Secretary for Planning and Evaluation. 2016. Report to Congress: Social Risk Factors and Performance Under Medicare’s Value-Based Payment Programs. Washington, DC.

proposed rule; (3) Preferred Language, as described in section VII.G.5.b.(2) of this proposed rule; (4) Interpreter Services, as described in section VII.G.5.b.(2) of this proposed rule; (5) Health Literacy, as described in section VII.G.5.b.(3) of this proposed rule; (6) Transportation, as described in section VII.G.5.b.(4) of this proposed rule; and (7) Social Isolation, as described in section VII.G.5.b.(5) of this proposed rule. These data elements are discussed in more detail below in section VII.G.5.b. of this proposed rule. We welcome comment on this proposal.

b. Standardized Patient Assessment Data

Section 1899B(b)(1)(B)(vi) of the Act authorizes the Secretary to collect SPADEs with respect to other categories deemed necessary and appropriate. Below we are proposing to create a Social Determinants of Health SPADE category under section 1899B(b)(1)(B)(vi) of the Act. In addition to collecting SDOH data for the purposes outlined above under section 2(d)(2)(B), we are also proposing to collect as SPADE these same data elements (race, ethnicity, preferred language, interpreter services, health literacy, transportation, and social isolation) under section 1899B(b)(1)(B)(vi) of the Act. We believe that this proposed new category of Social Determinants of Health will inform provider understanding of individual patient risk factors and treatment preferences, facilitate coordinated care and care planning, and improve patient outcomes. We are proposing to deem this category necessary and appropriate, for the purposes of SPADE, because using common standards and definitions for PAC data elements is important in ensuring interoperable exchange of longitudinal information between PAC providers and other providers to facilitate coordinated care, continuity in care planning, and the discharge planning process from post-acute care settings.

All of the Social Determinants of Health data elements we are proposing under section 1899B(b)(1)(B)(vi) of the Act have the capacity to take into account treatment preferences and care goals of patients, and to inform our understanding of patient complexity and risk factors that may affect care outcomes. While acknowledging the existence and importance of additional social determinants of health, we are proposing to assess some of the factors relevant for patients receiving post-acute care that PAC settings are in a position to impact through the provision

of services and supports, such as connecting patients with identified needs with transportation programs, certified interpreters, or social support programs.

As previously mentioned, and described in more detail below, we are proposing to adopt the following seven data elements as SPADE under the proposed Social Determinants of Health category: Race, ethnicity, preferred language, interpreter services, health literacy, transportation, and social isolation. To select these data elements, we reviewed the research literature, a number of validated assessment tools and frameworks for addressing SDOH currently in use (for example, Health Leads, NASEM, Protocol for Responding to and Assessing Patients' Assets, Risks, and Experiences (PRAPARE), and ICD-10), and we engaged in discussions with stakeholders. We also prioritized balancing the reporting burden for PAC providers with our policy objective to collect SPADEs that will inform care planning and coordination and quality improvement across care settings. Furthermore, incorporating SDOH data elements into care planning has the potential to reduce readmissions and help beneficiaries achieve and maintain their health goals.

We also considered feedback received during a listening session that we held on December 13, 2018. The purpose of the listening session was to solicit feedback from health systems, research organizations, advocacy organizations and state agencies and other members of the public on collecting patient-level data on SDOH across care settings, including consideration of race, ethnicity, spoken language, health literacy, social isolation, transportation, sex, gender identity, and sexual orientation. We also gave participants an option to submit written comments. A full summary of the listening session, titled "Listening Session on Social Determinants of Health Data Elements: Summary of Findings," includes a list of participating stakeholders and their affiliations, and is available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

(1) Race and Ethnicity

The persistence of racial and ethnic disparities in health and health care is widely documented including in PAC settings.^{148 149 150 151 152} Despite the

trend toward overall improvements in quality of care and health outcomes, the Agency for Healthcare Research and Quality, in its National Healthcare Quality and Disparities Reports, consistently indicates that racial and ethnic disparities persist, even after controlling for factors such as income, geography, and insurance.¹⁵³ For example, racial and ethnic minorities tend to have higher rates of infant mortality, diabetes and other chronic conditions, and visits to the emergency department, and lower rates of having a usual source of care and receiving immunizations such as the flu vaccine.¹⁵⁴ Studies have also shown that African Americans are significantly more likely than white Americans to die prematurely from heart disease and stroke.¹⁵⁵ However, our ability to identify and address racial and ethnic health disparities has historically been constrained by data limitations, particularly for smaller populations groups such as Asians, American Indians and Alaska Natives, and Native Hawaiians and other Pacific Islanders.¹⁵⁶

The ability to improve understanding of and address racial and ethnic disparities in PAC outcomes requires

Healthcare Research and Quality; September 2018. AHRQ Pub. No. 18-0033-EF.

¹⁴⁹ Fiscella, K. and Sanders, M.R. Racial and Ethnic Disparities in the Quality of Health Care. (2016). Annual Review of Public Health. 37:375–394.

¹⁵⁰ 2018 National Impact Assessment of the Centers for Medicare & Medicaid Services (CMS) Quality Measures Reports. Baltimore, MD: U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services; February 28, 2018.

¹⁵¹ Smedley, B.D., Stith, A.Y., & Nelson, A.R. (2003). Unequal treatment: confronting racial and ethnic disparities in health care. Washington, DC, National Academy Press.

¹⁵² Chase, J., Huang, L. and Russell, D. (2017). Racial/ethnic disparities in disability outcomes among post-acute home care patients. J of Aging and Health. 30(9):1406–1426.

¹⁵³ National Healthcare Quality and Disparities Reports. (December 2018). Agency for Healthcare Research and Quality, Rockville, MD. <http://www.ahrq.gov/research/findings/nhqrdr/index.html>.

¹⁵⁴ National Center for Health Statistics. Health, United States, 2017: With special feature on mortality. Hyattsville, Maryland. 2018.

¹⁵⁵ HHS. Heart disease and African Americans. 2016b. (October 24, 2016). <http://minorityhealth.hhs.gov/omh/browse.aspx?lvl=4&lvlid=19>.

¹⁵⁶ National Academies of Sciences, Engineering, and Medicine; Health and Medicine Division; Board on Population Health and Public Health Practice; Committee on Community-Based Solutions to Promote Health Equity in the United States; Baciu A, Negussie Y, Geller A, et al., editors. Communities in Action: Pathways to Health Equity. Washington (DC): National Academies Press (US); 2017 Jan 11. 2, The State of Health Disparities in the United States. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK425844/>.

¹⁴⁸ 2017 National Healthcare Quality and Disparities Report. Rockville, MD: Agency for

the availability of better data. There is currently a Race and Ethnicity data element, collected in the MDS, LCDS, IRF-PAI, and OASIS, that consists of a single question, which aligns with the 1997 Office of Management and Budget (OMB) minimum data standards for federal data collection efforts.¹⁵⁷ The 1997 OMB Standard lists five minimum categories of race: (1) American Indian or Alaska Native; (2) Asian; (3) Black or African American; (4) Native Hawaiian or Other Pacific Islander; (5) and White. The 1997 OMB Standard also lists two minimum categories of ethnicity: (1) Hispanic or Latino and (2) Not Hispanic or Latino. The 2011 HHS Data Standards requires a two-question format when self-identification is used to collect data on race and ethnicity. Large federal surveys such as the National Health Interview Survey, Behavioral Risk Factor Surveillance System, and the National Survey on Drug Use and Health, have implemented the 2011 HHS race and ethnicity data standards. CMS has similarly updated the Medicare Current Beneficiary Survey, Medicare Health Outcomes Survey, and the Health Insurance Marketplace Application for Health Coverage with the 2011 HHS data standards. More information about the HHS Race and Ethnicity Data Standards are available on the website at <https://minorityhealth.hhs.gov/omh/browse.aspx?lvl=3&lvlid=54>.

We are proposing to revise the current Race and Ethnicity data element for purposes of this proposal to conform to the 2011 HHS Data Standards for person-level data collection, while also meeting the 1997 OMB minimum data standards for race and ethnicity. Rather than one data element that assesses both race and ethnicity, we are proposing two separate data elements: One for Race and one for Ethnicity, that would conform with the 2011 HHS Data Standards and the 1997 OMB Standard. In accordance with the 2011 HHS Data Standards a two-question format would be used for the proposed race and ethnicity data elements.

The proposed Race data element asks, “What is your race? We are proposing to include fourteen response options under the race data element: (1) White; (2) Black or African American; (3) American Indian or Alaska Native; (4) Asian Indian; (5) Chinese; (6) Filipino; (7) Japanese; (8) Korean; (9) Vietnamese; (10) Other Asian; (11) Native Hawaiian;

(12) Guamanian or Chamorro; (13) Samoan; and, (14) Other Pacific Islander.

The proposed Ethnicity data element asks, “Are you Hispanic, Latino/a, or Spanish origin?” We are proposing to include five response options under the ethnicity data element: (1) Not of Hispanic, Latino/a, or Spanish origin; (2) Mexican, Mexican American, Chicano/a; (3) Puerto Rican; (4) Cuban; and, (5) Another Hispanic, Latino, or Spanish Origin.

We believe that the two proposed data elements for race and ethnicity conform to the 2011 HHS Data Standards for person-level data collection, while also meeting the 1997 OMB minimum data standards for race and ethnicity, because under those standards, more detailed information on population groups can be collected if those additional categories can be aggregated into the OMB minimum standard set of categories.

In addition, we received stakeholder feedback during the December 13, 2018 SDOH listening session on the importance of improving response options for race and ethnicity as a component of health care assessments and for monitoring disparities. Some stakeholders emphasized the importance of allowing for self-identification of race and ethnicity for more categories than are included in the 2011 HHS Standard to better reflect state and local diversity, while acknowledging the burden of coding an open-ended health care assessment question across different settings.

We believe that the proposed modified race and ethnicity data elements more accurately reflect the diversity of the U.S. population than the current race/ethnicity data element included in MDS, LCDS, IRF-PAI, and OASIS.^{158 159 160 161} We believe, and research consistently shows, that improving how race and ethnicity data are collected is an important first step

¹⁵⁸ Penman-Aguilar, A., Talih, M., Huang, D., Moonesinghe, R., Bouye, K., Beckles, G. (2016). Measurement of Health Disparities, Health Inequities, and Social Determinants of Health to Support the Advancement of Health Equity. *J Public Health Manag Pract.* 22 Suppl 1: S33–42.

¹⁵⁹ Ramos, R., Davis, J.L., Ross, T., Grant, C.G., Green, B.L. (2012). Measuring health disparities and health inequities: do you have REGAL data? *Qual Manag Health Care.* 21(3):176–87.

¹⁶⁰ IOM (Institute of Medicine). 2009. Race, Ethnicity, and Language Data: Standardization for Health Care Quality Improvement. Washington, DC: The National Academies Press.

¹⁶¹ “Revision of Standards for Maintaining, Collecting, and Presenting Federal Data on Race and Ethnicity: Proposals From Federal Interagency Working Group (Notice and Request for Comments).” **Federal Register** 82: 39 (March 1, 2017) p. 12242.

in improving quality of care and health outcomes. Addressing disparities in access to care, quality of care, and health outcomes for Medicare beneficiaries begins with identifying and analyzing how SDOH, such as race and ethnicity, align with disparities in these areas.¹⁶² Standardizing self-reported data collection for race and ethnicity allows for the equal comparison of data across multiple healthcare entities.¹⁶³ By collecting and analyzing these data, CMS and other healthcare entities will be able to identify challenges and monitor progress. The growing diversity of the US population and knowledge of racial and ethnic disparities within and across population groups supports the collection of more granular data beyond the 1997 OMB minimum standard for reporting categories. The 2011 HHS race and ethnicity data standard includes additional detail that may be used by PAC providers to target quality improvement efforts for racial and ethnic groups experiencing disparate outcomes. For more information on the Race and Ethnicity data elements, we refer readers to the document titled “Proposed Specifications for IRF QRP Measures and Standardized Patient Assessment Data Elements,” available at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In an effort to standardize the submission of race and ethnicity data among IRFs, HHAs, SNFs and LTCHs, for the purposes outlined in section 1899B(a)(1)(B) of the Act, while minimizing the reporting burden, we are proposing to adopt the Race and Ethnicity data elements described above as SPADEs with respect to the proposed Social Determinants of Health category.

Specifically, we are proposing to replace the current Race/Ethnicity data element with the proposed Race and Ethnicity data elements on the IRF-PAI. We are also proposing that IRFs that submit the Race and Ethnicity data

¹⁶² National Academies of Sciences, Engineering, and Medicine: Health and Medicine Division; Board on Population Health and Public Health Practice; Committee on Community-Based Solutions to Promote Health Equity in the United States; Baciu A, Negussie Y, Geller A, et al., editors. *Communities in Action: Pathways to Health Equity*. Washington (DC): National Academies Press (US); 2017 Jan 11. 2. The State of Health Disparities in the United States. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK425844/>.

¹⁶³ IOM (Institute of Medicine). 2009. Race, Ethnicity, and Language Data: Standardization for Health Care Quality Improvement. Washington, DC: The National Academies Press.

¹⁵⁷ “Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity (Notice of Decision)”. **Federal Register** 62:210 (October 30, 1997) pp. 58782–58790. Available from: <https://www.govinfo.gov/content/pkg/FR-1997-10-30/pdf/97-28653.pdf>.

elements with respect to admission will be considered to have submitted with respect to discharge as well, because it is unlikely that the results of these assessment findings will change between the start and end of the IRF stay, making the information submitted with respect to a patient's admission the same with respect to a patient's discharge.

(2) Preferred Language and Interpreter Services

More than 64 million Americans speak a language other than English at home, and nearly 40 million of those individuals have limited English proficiency (LEP).¹⁶⁴ Individuals with LEP have been shown to receive worse care and have poorer health outcomes, including higher readmission rates.^{165 166 167} Communication with individuals with LEP is an important component of high quality health care, which starts by understanding the population in need of language services. Unaddressed language barriers between a patient and provider care team negatively affects the ability to identify and address individual medical and non-medical care needs, to convey and understand clinical information, as well as discharge and follow up instructions, all of which are necessary for providing high quality care. Understanding the communication assistance needs of patients with LEP, including individuals who are Deaf or hard of hearing, is critical for ensuring good outcomes.

Presently, the preferred language of patients and residents and need for interpreter services are assessed in two PAC assessment tools. The LCDS and the MDS use the same two data elements to assess preferred language and whether a patient or resident needs or wants an interpreter to communicate with health care staff. The MDS initially implemented preferred language and interpreter services data elements to assess the needs of SNF residents and patients and inform care planning. For alignment purposes, the LCDS later

adopted the same data elements for LTCHs. The 2009 NASEM (formerly Institute of Medicine) report on standardizing data for health care quality improvement emphasizes that language and communication needs should be assessed as a standard part of health care delivery and quality improvement strategies.¹⁶⁸

In developing our proposal for a standardized language data element across PAC settings, we considered the current preferred language and interpreter services data elements that are in LCDS and MDS. We also considered the 2011 HHS Primary Language Data Standard and peer-reviewed research. The current preferred language data element in LCDS and MDS asks, "What is your preferred language?" Because the preferred language data element is open-ended, the patient or resident is able to identify their preferred language, including American Sign Language (ASL). Finally, we considered the recommendations from the 2009 NASEM (formerly Institute of Medicine) report, "Race, Ethnicity, and Language Data: Standardization for Health Care Quality Improvement." In it, the committee recommended that organizations evaluating a patient's language and communication needs for health care purposes, should collect data on the preferred spoken language and on an individual's assessment of his/her level of English proficiency.

A second language data element in LCDS and MDS asks, "Do you want or need an interpreter to communicate with a doctor or health care staff?" and includes yes or no response options. In contrast, the 2011 HHS Primary Language Data Standard recommends either a single question to assess how well someone speaks English or, if more granular information is needed, a two-part question to assess whether a language other than English is spoken at home and if so, identify that language. However, neither option allows for a direct assessment of a patient's or resident's preferred spoken or written language nor whether they want or need interpreter services for communication with a doctor or care team, both of which are an important part of assessing patient/resident needs and the care planning process. More information about the HHS Data Standard for Primary Language is available on the website at <https://>

minorityhealth.hhs.gov/omh/browse.aspx?lvl=3&lvlid=54.

Research consistently recommends collecting information about an individual's preferred spoken language and evaluating those responses for purposes of determining language access needs in health care.¹⁶⁹ However, using "preferred spoken language" as the metric does not adequately account for people whose preferred language is ASL, which would necessitate adopting an additional data element to identify visual language. The need to improve the assessment of language preferences and communication needs across PAC settings should be balanced with the burden associated with data collection on the provider and patient. Therefore we are proposing to retain the Preferred Language and Interpreter Services data elements currently in use on the MDS and LCDS on the IRF-PAI.

In addition, we received feedback during the December 13, 2018 listening session on the importance of evaluating and acting on language preferences early to facilitate communication and allowing for patient self-identification of preferred language. Although the discussion about language was focused on preferred spoken language, there was general consensus among participants that stated language preferences may or may not accurately indicate the need for interpreter services, which supports collecting and evaluating data to determine language preference, as well as the need for interpreter services. An alternate suggestion was made to inquire about preferred language specifically for discussing health or health care needs. While this suggestion does allow for ASL as a response option, we do not have data indicating how useful this question might be for assessing the desired information and thus we are not including this question in our proposal.

Improving how preferred language and need for interpreter services data are collected is an important component of improving quality by helping PAC providers and other providers understand patient needs and develop plans to address them. For more information on the Preferred Language and Interpreter Services data elements, we refer readers to the document titled "Proposed Specifications for IRF QRP

¹⁶⁴ U.S. Census Bureau, 2013–2017 American Community Survey 5-Year Estimates.

¹⁶⁵ Karlner LS, Kim SE, Meltzer DO, Auerbach AD. Influence of language barriers on outcomes of hospital care for general medicine inpatients. *J Hosp Med*. 2010 May–Jun;5(5):276–82. doi: 10.1002/jhm.658.

¹⁶⁶ Kim EJ, Kim T, Paasche-Orlow MK, et al. Disparities in Hypertension Associated with Limited English Proficiency. *J Gen Intern Med*. 2017 Jun;32(6):632–639. doi: 10.1007/s11606-017-3999-9.

¹⁶⁷ National Academies of Sciences, Engineering, and Medicine. 2016. Accounting for social risk factors in Medicare payment: Identifying social risk factors. Washington, DC: The National Academies Press.

¹⁶⁸ IOM (Institute of Medicine). 2009. Race, Ethnicity, and Language Data: Standardization for Health Care Quality Improvement. Washington, DC: The National Academies Press.

¹⁶⁹ Guerino, P. and James, C. Race, Ethnicity, and Language Preference in the Health Insurance Marketplaces 2017 Open Enrollment Period. Centers for Medicare & Medicaid Services, Office of Minority Health. Data Highlight: Volume 7—April 2017. Available at <https://www.cms.gov/About-CMS/Agency-Information/OMH/Downloads/Data-Highlight-Race-Ethnicity-and-Language-Preference-Marketplace.pdf>.

Measures and Standardized Patient Assessment Data Elements,” available on the website at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In an effort to standardize the submission of language data among IRFs, HHAs, SNFs and LTCHs, for the purposes outlined in section 1899B(a)(1)(B) of the Act, while minimizing the reporting burden, we are proposing to adopt the Preferred Language and Interpreter Services data elements currently used on the MDS and LCDS, and described above, as SPADEs with respect to the Social Determinants of Health category. We are proposing to add the current Preferred Language and Interpreter Services data elements from the MDS and LCDS to the IRF-PAI.

(3) Health Literacy

The Department of Health and Human Services defines health literacy as “the degree to which individuals have the capacity to obtain, process, and understand basic health information and services needed to make appropriate health decisions.”¹⁷⁰ Similar to language barriers, low health literacy can interfere with communication between the provider and patient and the ability for patients or their caregivers to understand and follow treatment plans, including medication management. Poor health literacy is linked to lower levels of knowledge about health, worse health outcomes, and the receipt of fewer preventive services, but higher medical costs and rates of emergency department use.¹⁷¹

Health literacy is prioritized by Healthy People 2020 as an SDOH.¹⁷² Healthy People 2020 is a long-term, evidence-based effort led by the Department of Health and Human Services that aims to identify nationwide health improvement priorities and improve the health of all Americans. Although not designated as a social risk factor in NASEM’s 2016 report on accounting for social risk

factors in Medicare payment, the NASEM noted that health literacy is impacted by other social risk factors and can affect access to care as well as quality of care and health outcomes.¹⁷³ Assessing for health literacy across PAC settings would facilitate better care coordination and discharge planning. A significant challenge in assessing the health literacy of individuals is avoiding excessive burden on patients and health care providers. The majority of existing, validated health literacy assessment tools use multiple screening items, generally with no fewer than four, which would make them burdensome if adopted in MDS, LCDS, IRF-PAI, and OASIS. The Single Item Literacy Screener (SILS) question asks, “How often do you need to have someone help you when you read instructions, pamphlets, or other written material from your doctor or pharmacy?” Possible response options are: (1) Never; (2) Rarely; (3) Sometimes; (4) Often; and (5) Always. The SILS question, which assesses reading ability, (a primary component of health literacy), tested reasonably well against the 36 item Short Test of Functional Health Literacy in Adults (S-TOFHLA), a thoroughly vetted and widely adopted health literacy test, in assessing the likelihood of low health literacy in an adult sample from primary care practices participating in the Vermont Diabetes Information System.^{174 175} The S-TOFHLA is a more complex assessment instrument developed using actual hospital related materials such as prescription bottle labels and appointment slips, and often considered the instrument of choice for a detailed evaluation of health literacy.¹⁷⁶ Furthermore, the S-TOFHLA instrument is proprietary and subject to purchase for individual entities or

users.¹⁷⁷ Given that SILS is publicly available, shorter and easier to administer than the full health literacy screen, and research found that a positive result on the SILS demonstrates an increased likelihood that an individual has low health literacy, we are proposing to use the single-item reading question for health literacy in the standardized data collection across PAC settings. We believe that use of this data element will provide sufficient information about the health literacy of IRF patients to facilitate appropriate care planning, care coordination, and interoperable data exchange across PAC settings.

In addition, we received feedback during the December 13, 2018 SDOH listening session on the importance of recognizing health literacy as more than understanding written materials and filling out forms, as it is also important to evaluate whether patients understand their conditions. However, the NASEM recently recommended that health care providers implement health literacy universal precautions instead of taking steps to ensure care is provided at an appropriate literacy level based on individualized assessment of health literacy.¹⁷⁸ Given the dearth of Medicare data on health literacy and gaps in addressing health literacy in practice, we recommend the addition of a health literacy data element.

The proposed Health Literacy data element is consistent with considerations raised by NASEM and other stakeholders and research on health literacy, which demonstrates an impact on health care use, cost, and outcomes.¹⁷⁹ For more information on the proposed Health Literacy data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Measures and Standardized Patient Assessment Data Elements,” available on the website at [https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-](https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html)

¹⁷⁰ U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. National action plan to improve health literacy. Washington (DC): Author; 2010.

¹⁷¹ National Academies of Sciences, Engineering, and Medicine. 2016. Accounting for social risk factors in Medicare payment: Identifying social risk factors. Washington, DC: The National Academies Press.

¹⁷² Social Determinants of Health. Healthy People 2020. <https://www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health>. (February 2019).

¹⁷³ U.S. Department of Health & Human Services, Office of the Assistant Secretary for Planning and Evaluation. Report to Congress: Social Risk Factors and Performance Under Medicare’s Value-Based Purchasing Programs. Available at <https://aspe.hhs.gov/pdf-report/report-congress-social-risk-factors-and-performance-under-medicare-value-based-purchasing-programs>. Washington, DC: 2016.

¹⁷⁴ Morris, N.S., MacLean, C.D., Chew, L.D., & Littenberg, B. (2006). The Single Item Literacy Screener: evaluation of a brief instrument to identify limited reading ability. BMC family practice, 7, 21. doi:10.1186/1471-2296-7-21.

¹⁷⁵ Brice, J.H., Foster, M.B., Principe, S., Moss, C., Shofer, F.S., Falk, R.J., Ferris, M.E., DeWalt, D.A. (2013). Single-item or two-item literacy screener to predict the S-TOFHLA among adult hemodialysis patients. Patient Educ Couns. 94(1):71–5.

¹⁷⁶ University of Miami, School of Nursing & Health Studies, Center of Excellence for Health Disparities Research. Test of Functional Health Literacy in Adults (TOFHLA). (March 2019). Available from: <https://elcentro.sonhs.miami.edu/research/measures-library/tofhla/index.html>.

¹⁷⁷ Nurss, J.R., Parker, R.M., Williams, M.V., & Baker, D.W. David W. (2001). TOFHLA. Peppercon Books & Press. Available from: http://www.pepperconbooks.com/catalog/information.php?info_id=5.

¹⁷⁸ Hudson, S., Rikard, R.V., Staiculescu, I. & Edison, K. (2017). Improving health and the bottom line: The case for health literacy. In Building the case for health literacy: Proceedings of a workshop. Washington, DC: The National Academies Press.

¹⁷⁹ National Academies of Sciences, Engineering, and Medicine. 2016. Accounting for Social Risk Factors in Medicare Payment: Identifying Social Risk Factors. Washington, DC: The National Academies Press.

2014/IMPACT-Act-Downloads-and-Videos.html.

In an effort to standardize the submission of health literacy data among IRFs, HHAs, SNFs and LTCHs, for the purposes outlined in section 1899B(a)(1)(B) of the Act, while minimizing the reporting burden, we are proposing to adopt SILS question described above for the Health Literacy data element as SPADE under the Social Determinants of Health Category. We are proposing to add the Health Literacy data element to the IRF–PAI.

(4) Transportation

Transportation barriers commonly affect access to necessary health care, causing missed appointments, delayed care, and unfilled prescriptions, all of which can have a negative impact on health outcomes.¹⁸⁰ Access to transportation for ongoing health care and medication access needs, particularly for those with chronic diseases, is essential to successful chronic disease management. Adopting a data element to collect and analyze information regarding transportation needs across PAC settings would facilitate the connection to programs that can address identified needs. We are therefore proposing to adopt as SPADE a single transportation data element that is from the Protocol for Responding to and Assessing Patients' Assets, Risks, and Experiences (PRAPARE) assessment tool and currently part of the Accountable Health Communities (AHC) Screening Tool.

The proposed Transportation data element from the PRAPARE tool asks, "Has lack of transportation kept you from medical appointments, meetings, work, or from getting things needed for daily living?" The three response options are: (1) Yes, it has kept me from medical appointments or from getting my medications; (2) Yes, it has kept me from non-medical meetings, appointments, work, or from getting things that I need; and (3) No. The patient would be given the option to select all responses that apply. We are proposing to use the transportation data element from the PRAPARE Tool, with permission from National Association of Community Health Centers (NACHC), after considering research on the importance of addressing transportation needs as a critical SDOH.¹⁸¹

The proposed data element is responsive to research on the importance of addressing transportation needs as a critical SDOH and would adopt the Transportation item from the PRAPARE tool.¹⁸² This data element comes from the national PRAPARE social determinants of health assessment protocol, developed and owned by NACHC, in partnership with the Association of Asian Pacific Community Health Organization, the Oregon Primary Care Association, and the Institute for Alternative Futures. Similarly the Transportation data element used in the AHC Screening Tool was adapted from the PRAPARE tool. The AHC screening tool was implemented by the Center for Medicare and Medicaid Innovation's AHC Model and developed by a panel of interdisciplinary experts that looked at evidence-based ways to measure SDOH, including transportation. While the transportation access data element in the AHC screening tool serves the same purposes as our proposed SPADE collection about transportation barriers, the AHC tool has binary yes or no response options that do not differentiate between challenges for medical versus non-medical appointments and activities. We believe that this is an important nuance for informing PAC discharge planning to a community setting, as transportation needs for non-medical activities may differ than for medical activities and should be taken into account.¹⁸³ We believe that use of this data element will provide sufficient information about transportation barriers to medical and non-medical care for IRF patients to facilitate appropriate discharge planning and care coordination across PAC settings. As such, we are proposing to adopt the Transportation data element from PRAPARE. More information about development of the PRAPARE tool is available on the website at <https://protect2.fireeye.com/url?k=7cb6eb44-20e2f238-7cb6da7b-0cc47adc5fa2-1751cb986c8c2f8c&u=http://www.nachc.org/prapare>.

In addition, we received stakeholder feedback during the December 13, 2018 SDOH listening session on the impact of transportation barriers on unmet care needs. While recognizing that there is no consensus in the field about whether

providers should have responsibility for resolving patient transportation needs, discussion focused on the importance of assessing transportation barriers to facilitate connections with available community resources.

Adding a Transportation data element to the collection of SPADE would be an important step to identifying and addressing SDOH that impact health outcomes and patient experience for Medicare beneficiaries. For more information on the Transportation data element, we refer readers to the document titled "Proposed Specifications for IRF QRP Measures and Standardized Patient Assessment Data Elements," available on the website at <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html>.

In an effort to standardize the submission of transportation data among IRFs, HHAs, SNFs and LTCHs, for the purposes outlined in section 1899B(a)(1)(B) of the Act, while minimizing the reporting burden, we are proposing to adopt the Transportation data element described above as SPADE with respect to the proposed Social Determinants of Health category. If finalized as proposed, we would add the Transportation data element to the IRF–PAI.

(5) Social Isolation

Distinct from loneliness, social isolation refers to an actual or perceived lack of contact with other people, such as living alone or residing in a remote area.¹⁸⁴ Social isolation tends to increase with age, is a risk factor for physical and mental illness, and a predictor of mortality.¹⁸⁶ Post-

¹⁸⁴ Tomaka, J., Thompson, S., and Palacios, R. (2006). The Relation of Social Isolation, Loneliness, and Social Support to Disease Outcomes Among the Elderly. *J of Aging and Health*. 18(3): 359–384.

¹⁸⁵ Social Connectedness and Engagement Technology for Long-Term and Post-Acute Care: A Primer and Provider Selection Guide. (2019). Leading Age. Available at <https://www.leadingage.org/white-papers/social-connectedness-and-engagement-technology-long-term-and-post-acute-care-primer-and#1.1>.

¹⁸⁶ Landeiro, F., Barrows, P., Nuttall Musson, E., Gray, A.M., and Leal, J. (2017). Reducing Social Loneliness in Older People: A Systematic Review Protocol. *BMJ Open*. 7(5): e013778.

¹⁸⁷ Ong, A.D., Uchino, B.N., and Wethington, E. (2016). Loneliness and Health in Older Adults: A Mini-Review and Synthesis. *Gerontology*. 62:443–449.

¹⁸⁸ Leigh-Hunt, N., Bagguley, D., Bash, K., Turner, V., Turnbull, S., Valtorta, N., and Caan, W. (2017). An overview of systematic reviews on the public health consequences of social isolation and loneliness. *Public Health*. 152:157–171.

¹⁸⁰ Syed, S.T., Gerber, B.S., and Sharp, L.K. (2013). Traveling Towards Disease: Transportation Barriers to Health Care Access. *J Community Health*. 38(5): 976–993.

¹⁸¹ Health Research & Educational Trust. (2017, November). Social determinants of health series: Transportation and the role of hospitals. Chicago,

IL. Available at www.aha.org/transportation.

¹⁸² Health Research & Educational Trust. (2017, November). Social determinants of health series: Transportation and the role of hospitals. Chicago, IL. Available at www.aha.org/transportation.

¹⁸³ Northwestern University. (2017). PROMIS Item Bank v. 1.0—Emotional Distress—Anger—Short Form 1.

acute care providers are well-suited to design and implement programs to increase social engagement of patients, while also taking into account individual needs and preferences. Adopting a data element to collect and analyze information about social isolation in IRFs and across PAC settings would facilitate the identification of patients who are socially isolated and who may benefit from engagement efforts.

We are proposing to adopt as SPADE a single social isolation data element that is currently part of the AHC Screening Tool. The AHC item was selected from the Patient-Reported Outcomes Measurement Information System (PROMIS®) Item Bank on Emotional Distress and asks, “How often do you feel lonely or isolated from those around you?” The five response options are: (1) Never; (2) Rarely; (3) Sometimes; (4) Often; and (5) Always.¹⁸⁹ The AHC Screening Tool was developed by a panel of interdisciplinary experts that looked at evidence-based ways to measure SDOH, including social isolation. More information about the AHC Screening Tool is available on the website at <https://innovation.cms.gov/Files/worksheets/ahcm-screeningtool.pdf>.

In addition, we received stakeholder feedback during the December 13, 2018 SDOH listening session on the value of receiving information on social isolation for purposes of care planning. Some stakeholders also recommended assessing social isolation as an SDOH as opposed to social support.

The proposed Social Isolation data element is consistent with NASEM considerations about social isolation as a function of social relationships that impacts health outcomes and increases mortality risk, as well as the current work of a NASEM committee examining how social isolation and loneliness impact health outcomes in adults 50 years and older. We believe that adding a Social Isolation data element would be an important component of better understanding patient complexity and the care goals of patients, thereby facilitating care coordination and continuity in care planning across PAC settings. For more information on the Social Isolation data element, we refer readers to the document titled “Proposed Specifications for IRF QRP Measures and Standardized Patient Assessment Data Elements,” available on the website at [https://www.cms.gov/Medicare/Quality-Initiatives-Patient-](https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/IRF-QRP-Measures-and-Standardized-Patient-Assessment-Data-Elements)

Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/IMPACT-Act-of-2014/IMPACT-Act-Downloads-and-Videos.html.

In an effort to standardize the submission of social isolation data among IRFs, HHAs, SNFs and LTCHs, for the purposes outlined in section 1899B(a)(1)(B) of the Act, while minimizing the reporting burden, we are proposing to adopt the Social Isolation data element described above as SPADE with respect to the proposed Social Determinants of Health category. We are proposing to add the Social Isolation data element to the IRF-PAI.

We are soliciting comment on this proposal.

H. Form, Manner, and Timing of Data Submission Under the IRF QRP

1. Background

We refer readers to § 412.634(b) for information regarding the current policies for reporting IRF QRP data.

2. Update to the CMS System for Reporting Quality Measures and Standardized Patient Assessment Data and Associated Procedural Proposals

IRFs are currently required to submit IRF-PAI data to CMS using the Quality Improvement and Evaluation System (QIES) Assessment and Submission Processing (ASAP) system. We will be migrating to a new internet Quality Improvement and Evaluation System (iQIES) that will enable real-time upgrades, and we are proposing to designate that system as the data submission system for the IRF QRP beginning October 1, 2019. We are proposing to revise § 412.634(a)(1) by replacing “Certification and Survey Provider Enhanced Reports (CASPER)” with “CMS designated data submission”. We are proposing to revise § 412.634(d)(1) by replacing the reference to “Quality Improvement and Evaluation System Assessment Submission and Processing (QIES ASAP) system” with “CMS designated data submission system”. We are proposing to revise § 412.634(d)(5) by replacing reference to the “QIES ASAP” with “CMS designated data submission”. We are also proposing to revise § 412.634(f)(1) by replacing “QIES” with “CMS designated data submission system”. In addition, we are proposing to notify the public of any future changes to the CMS designated system using subregulatory mechanisms, such as website postings, listserv messaging, and webinars.

We invite public comment on our proposals.

3. Proposed Schedule for Reporting the Transfer of Health Information Quality Measures Beginning With the FY 2022 IRF QRP

As discussed in section VIII.D. of this proposed rule, we are proposing to adopt the Transfer of Health Information to the Provider-Post-Acute Care (PAC) and Transfer of Health Information to the Patient-Post-Acute Care (PAC) quality measures beginning with the FY 2022 IRF QRP. We also are proposing that IRFs would report the data on those measures using the IRF-PAI. IRFs would be required to collect data on both measures for patients beginning with patients discharged on or after October 1, 2020. We refer readers to the FY 2018 IRF PPS final rule (82 FR 36291 through 36292) for the data collection and submission timeframes that we finalized for the IRF QRP.

We invite public comment on this proposal.

4. Proposed Schedule for Reporting Standardized Patient Assessment Data Elements Beginning With the FY 2022 IRF QRP

As discussed in section IV.F. of this proposed rule, we are proposing to adopt SPADEs beginning with the FY 2022 IRF QRP. We are proposing that IRFs would report the data using the IRF-PAI. Similar to the proposed schedule for reporting the Transfer of Health Information to the Provider-Post-Acute Care (PAC) and Transfer of Health Information to the Patient-Post-Acute Care (PAC) quality measures, IRFs would be required to collect the SPADEs for all patients discharged on or after October 1, 2020, at both admission and discharge. IRFs that submit data with respect to admission for the Hearing, Vision, Race, and Ethnicity SPADEs would be considered to have submitted data with respect to discharges. We refer readers to the FY 2018 IRF PPS final rule (82 FR 36291 through 36292) for the data collection and submission timeframes that we finalized for the IRF QRP.

We invite public comment on this proposal.

5. Proposed Data Reporting on Patients for the IRF Quality Reporting Program Beginning With the FY 2022 IRF QRP

We received public input suggesting that the quality measures used in the IRF QRP should be calculated using data collected from all IRF patients, regardless of the patients' payer. This input was provided to us via comments requested about quality measure development on the CMS Measures Management System Blueprint

¹⁸⁹Northwestern University. (2017). PROMIS Item Bank v. 1.0—Emotional Distress—Anger—Short Form 1.

website,¹⁹⁰ as well as through comments we received from stakeholders via our IRF QRP mailbox, and feedback received from the NQF-convened MAP as part of their recommendations on Coordination Strategy for Post-Acute Care and Long-Term Care Performance Measurement.¹⁹¹ Further, in the FY 2018 IRF PPS proposed rule (82 FR 20740), we sought input on expanding the reporting of quality measures to include all patients, regardless of payer, so as to ensure that the IRF QRP makes publicly available information regarding the quality of the services furnished to the IRF population as a whole, rather than just those patients who have Medicare.

In response to that request for public input, several commenters, including MedPAC, submitted comments stating that they would be supportive of an effort to collect data specified under the IRF QRP from all IRF patients regardless of their payer. Many commenters noted that this would not be overly burdensome, as most of their organizations' members currently complete the IRF-PAI on all patients, regardless of their payer. A few commenters had concerns, including recommending that CMS continue to align the patient assessment instruments across PAC settings and whether the use of the data would outweigh any additional reporting burden. For a more detailed discussion, we refer readers to the FY 2018 IRF final rule (82 FR 36292). We have taken these concerns under consideration in proposing this policy.

Further, given that we do not have access to other payer claims, we believe that the most accurate representation of the quality provided in IRFs would be best conveyed using data collected via the IRF-PAI on all IRF patients, regardless of payer, for the purposes of the IRF QRP. Medicare is the primary payer for approximately 60 percent of IRF patients.¹⁹²

We also believe that data reporting on standardized patient assessment data

elements using IRF-PAI should include all IRF patients for the same reasons for collecting data on all residents for the IRF QRP's quality measures: To promote higher quality and more efficient health care for Medicare beneficiaries and all patients receiving IRF services, for example through the exchange of information and longitudinal analysis of the data. With that, we believe that collecting quality measure and standardized patient assessment data via the IRF-PAI on all IRF patients ensures that quality care is provided for Medicare beneficiaries, and patients receiving IRF services as a whole. While we appreciate that collecting quality data on all patients regardless of payer may create additional burden, we also note that the effort to separate out Medicare beneficiaries from other patients is also burdensome. We are aware that it is common practice for IRFs to collect IRF-PAI data on all patients, regardless of their payer.

Further, we believe that patients may utilize various payer sources for services received during their stay, for example being admitted under one payer source including Medicare, and the payer source may change during the patient stay which would require the restart of the data collection and reporting in the midst of services rather than at the actual admission. Collecting data on all IRF patients will provide us with the most robust, accurate reflection of the quality of care delivered to Medicare beneficiaries as compared with non-Medicare patients and residents, and we intend to display the calculation of this data on IRF Compare in the future. Accordingly, we are proposing that IRFs collect data on all IRF patients to ensure that all patients, regardless of their payer, are receiving the same care and that provider metrics measure performance across the spectrum of patients.

Therefore, to meet the quality reporting requirements for IRFs for the FY 2022 payment determination and each subsequent year, we propose to expand the reporting of IRF-PAI data used for the IRF QRP to include data on all patients, regardless of their payer, beginning with patients discharged on or after October 1, 2020 for the FY 2022 IRF QRP and the IRF-PAI V4.0, effective October 1, 2020.

We invite public comment on this proposal.

I. Proposed Policies Regarding Public Display of Measure Data for the IRF QRP

Section 1886(j)(7)(E) of the Act requires the Secretary to establish procedures for making the IRF QRP data

available to the public after ensuring that IRFs have the opportunity to review their data prior to public display. Measure data are currently displayed on the Inpatient Rehabilitation Facility Compare website, an interactive web tool that assists individuals by providing information on IRF quality of care. For more information on IRF Compare, we refer readers to the website at <https://www.medicare.gov/inpatient-rehabilitationfacilitycompare/>. For a more detailed discussion about our policies regarding public display of IRF QRP measure data and procedures for the opportunity to review and correct data and information, we refer readers to the FY 2017 IRF PPS final rule (81 FR 52125 through 52131).

In this proposed rule, we are proposing to begin publicly displaying data for the Drug Regimen Review Conducted With Follow-Up for Identified Issues—PAC IRF QRP measure beginning CY 2020 or as soon as technically feasible. We finalized the Drug Regimen Review Conducted With Follow-Up for Identified Issues—PAC IRF QRP measure in the FY 2017 IRF PPS final rule (81 FR 52111 through 52116).

Data collection for this assessment-based measure began with patients discharged on or after October 1, 2018. We are proposing to display data based on four rolling quarters, initially using discharges from January 1, 2019 through December 31, 2019 (Quarter 1 2019 through Quarter 4 2019). To ensure the statistical reliability of the data, we are proposing that we would not publicly report an IRF's performance on the measure if the IRF had fewer than 20 eligible cases in any four consecutive rolling quarters. IRFs that have fewer than 20 eligible cases would be distinguished with a footnote that states, "The number of cases/patient stays is too small to publicly report."

We invite public comment on these proposals.

J. Proposed Removal of the List of Compliant IRFs

In the FY 2016 IRF PPS final rule (80 FR 47125 through 47127), we finalized that we would publish a list of IRFs that successfully met the reporting requirements for the applicable payment determination on the IRF QRP website and update the list on an annual basis.

We have received feedback from stakeholders that this list offers minimal benefit. Although the posting of successful providers was the final step in the applicable payment determination process, it does not provide new information or clarification to the providers regarding their annual

¹⁹⁰ Public Comment Summary Report Posting for Transfer of Health Information and Care Preferences. <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Post-Acute-Care-Quality-Initiatives/Downloads/Development-of-Cross-Setting-Transfer-of-Health-Information-Quality-Meas.pdf>.

¹⁹¹ MAP Coordination Strategy for Post-Acute Care and Long-Term Care Performance Measurement. Feb 2012. http://www.qualityforum.org/Publications/2012/02/MAP_Coordination_Strategy_for_Post-Acute_Care_and_Long-Term_Care_Performance_Measurement.aspx.

¹⁹² National Academies of Sciences, Engineering, and Medicine. 2016. Accounting for social risk factors in Medicare payment: Identifying social risk factors. Washington, DC: The National Academies Press.

payment update status. Therefore, in this proposed rule, we are proposing that we will no longer publish a list of compliant IRFs on the IRF QRP website, effective beginning with the FY 2020 payment determination.

We invite public comment on this proposal.

K. Method for Applying the Reduction to the FY 2020 IRF Increase Factor for IRFs That Fail To Meet the Quality Reporting Requirements

As previously noted, section 1886(j)(7)(A)(i) of the Act requires the application of a 2-percentage point reduction of the applicable market

basket increase factor for payments for discharges occurring during such fiscal year for IRFs that fail to comply with the quality data submission requirements. We propose to apply a 2-percentage point reduction to the applicable FY 2020 proposed market basket increase factor in calculating an adjusted FY 2020 proposed standard payment conversion factor to apply to payments for only those IRFs that failed to comply with the data submission requirements. As previously noted, application of the 2-percentage point reduction may result in an update that is less than 0.0 for a fiscal year and in payment rates for a fiscal year being less than such payment

rates for the preceding fiscal year. Also, reporting-based reductions to the market basket increase factor will not be cumulative; they will only apply for the FY involved.

We invite public comment on the proposed method for applying the reduction to the FY 2020 IRF increase factor for IRFs that fail to meet the quality reporting requirements.

Table 20 shows the calculation of the proposed adjusted FY 2020 standard payment conversion factor that will be used to compute IRF PPS payment rates for any IRF that failed to meet the quality reporting requirements for the applicable reporting period.

TABLE 20: Calculations to Determine the Proposed Adjusted FY 2020 Standard Payment Conversion Factor for IRFs That Failed to Meet the Quality Reporting Requirement

Explanation for Adjustment	Calculations	
Standard Payment Conversion Factor for FY 2019	\$ 16,021	
Market Basket Increase Factor for FY 2020 (3.0 percent), reduced by 0.5 percentage point for the productivity adjustment as required by section 1886(j)(3)(C)(ii)(I) of the Act, and further reduced by 2 percentage points for IRFs that failed to meet the quality reporting requirement	X	1.005
Budget Neutrality Factor for the Wage Index and Labor-Related Share	X	1.0076
Budget Neutrality Factor for the Revisions to the CMGs and CMG Relative Weights	X	1.0016
Adjusted FY 2020 Standard Payment Conversion Factor	=	\$ 16,249

IX. Collection of Information Requirements

A. Statutory Requirement for Solicitation of Comments

Under the Paperwork Reduction Act of 1995 (PRA), we are required to provide 60-day notice in the **Federal Register** and solicit public comment before a collection of information requirement is submitted to the OMB for review and approval. To fairly evaluate whether an information collection should be approved by OMB, section 3506(c)(2)(A) of the PRA requires that we solicit comment on the following issues:

- The need for the information collection and its usefulness in carrying out the proper functions of our agency;
- The accuracy of our estimate of the information collection burden;

- The quality, utility, and clarity of the information to be collected; and
- Recommendations to minimize the information collection burden on the affected public, including automated collection techniques.

This proposed rule makes reference to associated information collections that are not discussed in the regulation text contained in this document.

B. Collection of Information Requirements for Updates Related to the IRF QRP

An IRF that does not meet the requirements of the IRF QRP for a fiscal year will receive a 2 percentage point reduction to its otherwise applicable annual increase factor for that fiscal year. Information is not currently available to determine the precise number of IRFs that will receive less

than the full annual increase factor for FY 2020 due to non-compliance with the requirements of the IRF QRP.

We believe that the burden associated with the IRF QRP is the time and effort associated with complying with the requirements of the IRF QRP. As of February 1, 2019, there are approximately 1,119 IRFs reporting quality data to CMS. For the purposes of calculating the costs associated with the collection of information requirements, we obtained mean hourly wages for these staff from the U.S. Bureau of Labor Statistics' May 2017 National Occupational Employment and Wage Estimates (http://www.bls.gov/oes/current/oes_nat.htm). To account for overhead and fringe benefits, we have doubled the hourly wage. These amounts are detailed in Table 21.

TABLE 21: U.S. Bureau of Labor Statistics' May 2018 National Occupational Employment and Wage Estimates

Occupation title	Occupation code	Mean Hourly Wage (\$/hr)	Overhead and Fringe Benefit (\$/hr)	Adjusted Hourly Wage (\$/hr)
Registered Nurse (RN)	29-1141	\$35.36	\$35.36	\$70.72
Licensed Vocational Nurse (LVN)	29-2061	\$21.98	\$21.98	\$43.96

As discussed in section VIII.D. of this proposed rule, we are proposing to adopt two new measures, (1) Transfer of Health Information to the Provider–Post-Acute Care (PAC); and (2) Transfer of Health Information to the Patient–Post-Acute Care (PAC), beginning with the FY 2022 IRF QRP. As a result, the estimated burden and cost for IRFs for complying with requirements of the FY 2022 IRF QRP will increase.

Specifically, we believe that there will be a 0.9 minute addition in clinical staff time to report data per patient stay. We estimate 409,982 discharges from 1,119 IRFs annually. This equates to an increase of 8,200 hours in burden for all IRFs (0.02 hours per assessment × 409,982 discharges). Given 0.5 minutes of RN time at \$70.72 per hour and 0.4 minutes of LVN time at \$43.96 per hour, we estimate that the total cost will be increased by \$330 per IRF annually, or \$369,082 for all IRFs annually. This increase in burden will be accounted for in the information collection under OMB control number (0938–0842), which expires December 31, 2021.

In addition, we are proposing to add the standardized patient assessment data elements described in section VIII.F beginning with the FY 2022 IRF QRP. As a result, the estimated burden and cost for IRFs for complying with requirements of the FY 2022 IRF QRP will be increased. Specifically, we believe that there will be an addition of 7.4 minutes on admission, and 11.1 minutes on discharge, for a total of 8.9 minutes of additional clinical staff time to report data per patient stay. We estimate 409,982 discharges from 1,119 IRFs annually. This equates to an increase of 131,194 hours in burden for all IRFs (0.32 hours per assessment × 409,982 discharges). Given 11.3 minutes of RN time at \$70.72 per hour and 7.6 minutes of LVN time at \$43.96 per hour, we estimate that the total cost will be increased by \$6,926 per IRF annually, or \$7,750,194 for all IRFs annually. This increase in burden will be accounted for in the information collection under OMB control number (0938–0842), which expires December 31, 2021.

In summary, the proposed IRF QRP quality measures and standardized patient assessment data elements will result in a burden addition of \$7,256 per IRF annually, and \$8,119,276 for all IRFs annually.

C. Submission of PRA-Related Comments

We have submitted a copy of this rule's information collection and recordkeeping requirements to OMB for review and approval. These

requirements are not effective until they have been approved by the OMB.

To obtain copies of the supporting statement and any related forms for the proposed collections discussed above, please visit CMS's website at www.cms.hhs.gov/PaperworkReductionActof1995, or call the Reports Clearance Office at 410–786–1326.

We invite public comments on these potential information collection requirements. If you wish to comment, please refer to the **DATES** and **ADDRESSES** sections of this rulemaking for instructions. We will consider all ICR-related comments received by the date and time specified in the **DATES** section, and, when we proceed with a subsequent document, we will respond to the comments in the preamble to that document.

X. Response to Comments

Because of the large number of public comments we normally receive on **Federal Register** documents, we are not able to acknowledge or respond to them individually. We will consider all comments we receive by the date and time specified in the **DATES** section of this preamble, and, when we proceed with a subsequent document, we will respond to the comments in the preamble to that document.

XI. Regulatory Impact Analysis

A. Statement of Need

This proposed rule updates the IRF prospective payment rates for FY 2020 as required under section 1886(j)(3)(C) of the Act. It responds to section 1886(j)(5) of the Act, which requires the Secretary to publish in the **Federal Register** on or before the August 1 that precedes the start of each fiscal year, the classification and weighting factors for the IRF PPS's case-mix groups, and a description of the methodology and data used in computing the prospective payment rates for that fiscal year.

This proposed rule also implements sections 1886(j)(3)(C) of the Act. Section 1886(j)(3)(C)(ii)(I) of the Act requires the Secretary to apply a multifactor productivity adjustment to the market basket increase factor. The productivity adjustment applies to FYs from 2012 forward.

Furthermore, this proposed rule also adopts policy changes under the statutory discretion afforded to the Secretary under section 1886(j)(7) of the Act. Specifically, we are proposing to rebase and revise the IRF market basket to reflect a 2016 base year rather than the current 2012 base year, revise the CMGs, make a technical correction to the regulatory language to indicate that

that the determination of whether a treating physician has specialized training and experience in inpatient rehabilitation is made by the IRF and update regulatory language related to IRF QRP data collection.

B. Overall Impact

We have examined the impacts of this rule as required by Executive Order 12866 on Regulatory Planning and Review (September 30, 1993), Executive Order 13563 on Improving Regulation and Regulatory Review (January 18, 2011), the Regulatory Flexibility Act (RFA) (September 19, 1980, Pub. L. 96–354), section 1102(b) of the Act, section 202 of the Unfunded Mandates Reform Act of 1995 (March 22, 1995; Pub. L. 104–4), Executive Order 13132 on Federalism (August 4, 1999), the Congressional Review Act (5 U.S.C. 804(2) and Executive Order 13771 on Reducing Regulation and Controlling Regulatory Costs (January 30, 2017).

Executive Orders 12866 and 13563 direct agencies to assess all costs and benefits of available regulatory alternatives and, if regulation is necessary, to select regulatory approaches that maximize net benefits (including potential economic, environmental, public health and safety effects, distributive impacts, and equity). Section 3(f) of Executive Order 12866 defines a “significant regulatory action” as an action that is likely to result in a rule: (1) Having an annual effect on the economy of \$100 million or more in any 1 year, or adversely and materially affecting a sector of the economy, productivity, competition, jobs, the environment, public health or safety, or state, local or tribal governments or communities (also referred to as “economically significant”); (2) creating a serious inconsistency or otherwise interfering with an action taken or planned by another agency; (3) materially altering the budgetary impacts of entitlement grants, user fees, or loan programs or the rights and obligations of recipients thereof; or (4) raising novel legal or policy issues arising out of legal mandates, the President's priorities, or the principles set forth in the Executive Order.

A regulatory impact analysis (RIA) must be prepared for major rules with economically significant effects (\$100 million or more in any 1 year). We estimate the total impact of the policy updates described in this proposed rule by comparing the estimated payments in FY 2020 with those in FY 2019. This analysis results in an estimated \$195 million increase for FY 2020 IRF PPS payments. Additionally we estimate that

costs associated with the proposals to update the reporting requirements under the IRF quality reporting program result in an estimated \$8.1 million addition in costs in FY 2020 for IRFs. We estimate that this rulemaking is “economically significant” as measured by the \$100 million threshold, and hence also a major rule under the Congressional Review Act. Also, the rule has been reviewed by OMB. Accordingly, we have prepared a Regulatory Impact Analysis that, to the best of our ability, presents the costs and benefits of the rulemaking.

C. Anticipated Effects

1. Effects on IRFs

The RFA requires agencies to analyze options for regulatory relief of small entities, if a rule has a significant impact on a substantial number of small entities. For purposes of the RFA, small entities include small businesses, nonprofit organizations, and small governmental jurisdictions. Most IRFs and most other providers and suppliers are small entities, either by having revenues of \$7.5 million to \$38.5 million or less in any 1 year depending on industry classification, or by being nonprofit organizations that are not dominant in their markets. (For details, see the Small Business Administration’s final rule that set forth size standards for health care industries, at 65 FR 69432 at http://www.sba.gov/sites/default/files/files/Size_Standards_Table.pdf, effective March 26, 2012 and updated on February 26, 2016.) Because we lack data on individual hospital receipts, we cannot determine the number of small proprietary IRFs or the proportion of IRFs’ revenue that is derived from Medicare payments. Therefore, we assume that all IRFs (an approximate total of 1,120 IRFs, of which approximately 55 percent are nonprofit facilities) are considered small entities and that Medicare payment constitutes the majority of their revenues. The HHS generally uses a revenue impact of 3 to 5 percent as a significance threshold under the RFA. As shown in Table 22, we estimate that the net revenue impact of this proposed rule on all IRFs is to increase estimated payments by approximately 2.3 percent. The rates and policies set forth in this proposed rule will not have a significant impact (not greater than 3 percent) on a substantial number of small entities. Medicare Administrative Contractors are not considered to be small entities. Individuals and states are not included in the definition of a small entity.

In addition, section 1102(b) of the Act requires us to prepare a regulatory

impact analysis if a rule may have a significant impact on the operations of a substantial number of small rural hospitals. This analysis must conform to the provisions of section 603 of the RFA. For purposes of section 1102(b) of the Act, we define a small rural hospital as a hospital that is located outside of a Metropolitan Statistical Area and has fewer than 100 beds. As discussed in detail below in this section, the rates and policies set forth in this proposed rule will not have a significant impact (not greater than 3 percent) on a substantial number of rural hospitals based on the data of the 136 rural units and 11 rural hospitals in our database of 1,119 IRFs for which data were available.

Section 202 of the Unfunded Mandates Reform Act of 1995 (Pub. L. 104–04, enacted on March 22, 1995) (UMRA) also requires that agencies assess anticipated costs and benefits before issuing any rule whose mandates require spending in any 1 year of \$100 million in 1995 dollars, updated annually for inflation. In 2019, that threshold is approximately \$154 million. This proposed rule does not mandate any requirements for State, local, or tribal governments, or for the private sector.

Executive Order 13132 establishes certain requirements that an agency must meet when it issues a proposed rule (and subsequent final rule) that imposes substantial direct requirement costs on state and local governments, preempts state law, or otherwise has federalism implications. As stated, this proposed rule will not have a substantial effect on state and local governments, preempt state law, or otherwise have a federalism implication.

Executive Order 13771, titled Reducing Regulation and Controlling Regulatory Costs, was issued on January 30, 2017 and requires that the costs associated with significant new regulations “shall, to the extent permitted by law, be offset by the elimination of existing costs associated with at least two prior regulations.” This proposed rule is considered an E.O. 13771 deregulatory action. We estimate that this rule would generate \$6.18 million in annualized cost, discounted at 7 percent relative to year 2016, over a perpetual time horizon. Details on the estimated costs of this rule can be found in the preceding analyses.

2. Detailed Economic Analysis

This proposed rule updates to the IRF PPS rates contained in the FY 2019 IRF PPS final rule (83 FR 38514).

Specifically, this proposed rule updates the CMG relative weights and average length of stay values, the wage index, and the outlier threshold for high-cost cases. This proposed rule applies a MFP adjustment to the FY 2020 IRF market basket increase factor in accordance with section 1886(j)(3)(C)(ii)(I) of the Act. Further, this proposed rule proposes to rebase and revise the IRF market basket to reflect a 2016 base year rather than the current 2012 base year, revise the CMGs based on FY 2017 and 2018 data and to make a technical correction to the regulatory language to indicate that the determination of whether a treating physician has specialized training and experience in inpatient rehabilitation is made by the IRF.

We estimate that the impact of the changes and updates described in this proposed rule would be a net estimated increase of \$195 million in payments to IRF providers. This estimate does not include the implementation of the required 2 percentage point reduction of the market basket increase factor for any IRF that fails to meet the IRF quality reporting requirements (as discussed in section VIII.J. of this proposed rule). The impact analysis in Table 22 of this proposed rule represents the projected effects of the updates to IRF PPS payments for FY 2020 compared with the estimated IRF PPS payments in FY 2019. We determine the effects by estimating payments while holding all other payment variables constant. We use the best data available, but we do not attempt to predict behavioral responses to these changes, and we do not make adjustments for future changes in such variables as number of discharges or case-mix.

We note that certain events may combine to limit the scope or accuracy of our impact analysis, because such an analysis is future-oriented and, thus, susceptible to forecasting errors because of other changes in the forecasted impact time period. Some examples could be legislative changes made by the Congress to the Medicare program that would impact program funding, or changes specifically related to IRFs. Although some of these changes may not necessarily be specific to the IRF PPS, the nature of the Medicare program is such that the changes may interact, and the complexity of the interaction of these changes could make it difficult to predict accurately the full scope of the impact upon IRFs.

In updating the rates for FY 2020, we are proposing standard annual revisions described in this proposed rule (for example, the update to the wage and market basket indexes used to adjust the

federal rates). We are also implementing a productivity adjustment to the FY 2020 IRF market basket increase factor in accordance with section 1886(j)(3)(C)(ii)(I) of the Act. We estimate the total increase in payments to IRFs in FY 2020, relative to FY 2019, will be approximately \$195 million.

This estimate is derived from the application of the FY 2020 IRF market basket increase factor, as reduced by a productivity adjustment in accordance with section 1886(j)(3)(C)(ii)(I) of the Act, which yields an estimated increase in aggregate payments to IRFs of \$210 million. Furthermore, there is an additional estimated \$15 million decrease in aggregate payments to IRFs due to the proposed update to the outlier threshold amount. Outlier payments are estimated to decrease from approximately 3.2 percent in FY 2019 to 3.0 percent in FY 2020. Therefore, summed together, we estimate that these updates will result in a net increase in estimated payments of \$195 million from FY 2019 to FY 2020.

The effects of the proposed updates that impact IRF PPS payment rates are shown in Table 22. The following proposed updates that affect the IRF PPS payment rates are discussed separately below:

- The effects of the proposed update to the outlier threshold amount, from approximately 3.2 percent to 3.0 percent of total estimated payments for FY 2020, consistent with section 1886(j)(4) of the Act.

- The effects of the proposed annual market basket update (using the IRF market basket) to IRF PPS payment rates, as required by section 1886(j)(3)(A)(i) and section 1886(j)(3)(C) of the Act, including a productivity adjustment in accordance with section 1886(j)(3)(C)(i)(I) of the Act.

- The effects of applying the proposed budget-neutral labor-related share and wage index adjustment, as required under section 1886(j)(6) of the Act.

- The effects of the proposed budget-neutral changes to the CMGs, relative weights and average length of stay values, under the authority of section 1886(j)(2)(C)(i) of the Act.

- The total change in estimated payments based on the proposed FY 2020 payment changes relative to the estimated FY 2019 payments.

3. Description of Table 22

Table 22 categorizes IRFs by geographic location, including urban or rural location, and location for CMS's 9

Census divisions (as defined on the cost report) of the country. In addition, the table divides IRFs into those that are separate rehabilitation hospitals (otherwise called freestanding hospitals in this section), those that are rehabilitation units of a hospital (otherwise called hospital units in this section), rural or urban facilities, ownership (otherwise called for-profit, non-profit, and government), by teaching status, and by DSH PP. The top row of Table 22 shows the overall impact on the 1,119 IRFs included in the analysis.

The next 12 rows of Table 22 contain IRFs categorized according to their geographic location, designation as either a freestanding hospital or a unit of a hospital, and by type of ownership; all urban, which is further divided into urban units of a hospital, urban freestanding hospitals, and by type of ownership; and all rural, which is further divided into rural units of a hospital, rural freestanding hospitals, and by type of ownership. There are 972 IRFs located in urban areas included in our analysis. Among these, there are 696 IRF units of hospitals located in urban areas and 276 freestanding IRF hospitals located in urban areas. There are 147 IRFs located in rural areas included in our analysis. Among these, there are 136 IRF units of hospitals located in rural areas and 11 freestanding IRF hospitals located in rural areas. There are 393 for-profit IRFs. Among these, there are 357 IRFs in urban areas and 36 IRFs in rural areas. There are 612 non-profit IRFs. Among these, there are 522 urban IRFs and 90 rural IRFs. There are 114 government-owned IRFs. Among these, there are 93 urban IRFs and 21 rural IRFs.

The remaining four parts of Table 22 show IRFs grouped by their geographic location within a region, by teaching status, and by DSH PP. First, IRFs located in urban areas are categorized for their location within a particular one of the nine Census geographic regions. Second, IRFs located in rural areas are categorized for their location within a particular one of the nine Census geographic regions. In some cases, especially for rural IRFs located in the New England, Mountain, and Pacific regions, the number of IRFs represented is small. IRFs are then grouped by teaching status, including non-teaching IRFs, IRFs with an intern and resident to average daily census (ADC) ratio less than 10 percent, IRFs with an intern and resident to ADC ratio greater than or equal to 10 percent and less than or

equal to 19 percent, and IRFs with an intern and resident to ADC ratio greater than 19 percent. Finally, IRFs are grouped by DSH PP, including IRFs with zero DSH PP, IRFs with a DSH PP less than 5 percent, IRFs with a DSH PP between 5 and less than 10 percent, IRFs with a DSH PP between 10 and 20 percent, and IRFs with a DSH PP greater than 20 percent.

The estimated impacts of each policy described in this rule to the facility categories listed are shown in the columns of Table 22. The description of each column is as follows:

- Column (1) shows the facility classification categories.
- Column (2) shows the number of IRFs in each category in our FY 2020 analysis file.
- Column (3) shows the number of cases in each category in our FY 2020 analysis file.
- Column (4) shows the estimated effect of the proposed adjustment to the outlier threshold amount.
- Column (5) shows the estimated effect of the proposed update to the IRF labor-related share and wage index, in a budget-neutral manner.
- Column (6) shows the estimated effect of the proposed update to the CMGs, relative weights, and average length of stay values, in a budget-neutral manner.
- Column (7) compares our estimates of the payments per discharge, incorporating all of the policies reflected in this proposed rule for FY 2020 to our estimates of payments per discharge in FY 2019.

The average estimated increase for all IRFs is approximately 2.3 percent. This estimated net increase includes the effects of the proposed IRF market basket increase factor for FY 2020 of 3.0 percent, reduced by a productivity adjustment of 0.5 percentage point in accordance with section 1886(j)(3)(C)(ii)(I) of the Act. It also includes the approximate 0.2 percent overall decrease in estimated IRF outlier payments from the proposed update to the outlier threshold amount. Since we are making the updates to the IRF wage index and the CMG relative weights in a budget-neutral manner, they will not be expected to affect total estimated IRF payments in the aggregate. However, as described in more detail in each section, they will be expected to affect the estimated distribution of payments among providers.

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TABLE 22: IRF Impact Table for FY 2020 (Columns 4 through 7 in percentage)

Facility Classification	Number of IRFs	Number of Cases	Outlier	FY 2020 CBSA wage index and labor-share	CMG Weights	Total Percent Change ¹
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Total	1,119	409,982	-0.2	0.0	0.0	2.3
Urban unit	696	166,872	-0.3	0.1	2.5	4.8
Rural unit	136	21,700	-0.3	0.4	2.9	5.6
Urban hospital	276	216,894	-0.1	-0.1	-2.2	0.0
Rural hospital	11	4,516	0.0	-0.8	-3.6	-2.0
Urban For-Profit	357	211,280	-0.1	-0.1	-1.8	0.5
Rural For-Profit	36	7,920	-0.2	-0.3	0.1	2.2
Urban Non-Profit	522	150,310	-0.3	0.1	1.6	4.0
Rural Non-Profit	90	15,166	-0.3	0.4	2.2	4.9
Urban Government	93	22,176	-0.3	0.0	3.1	5.2
Rural Government	21	3,130	-0.1	0.2	4.1	6.9
Urban	972	383,766	-0.2	0.0	-0.1	2.2
Rural	147	26,216	-0.2	0.2	1.8	4.3
Urban by region						
Urban New England	29	16,260	-0.1	-0.1	-2.3	-0.2
Urban Middle Atlantic	135	51,539	-0.2	-0.1	-1.6	0.6
Urban South Atlantic	147	77,315	-0.1	-0.6	-0.5	1.3
Urban East North Central	165	50,466	-0.2	-0.2	2.3	4.3
Urban East South Central	56	27,966	-0.1	-0.6	-0.6	1.1
Urban West North Central	74	20,822	-0.2	0.2	1.0	3.4
Urban West South Central	184	84,068	-0.1	0.4	-0.5	2.3
Urban Mountain	83	30,294	-0.2	-0.7	-0.6	1.0
Urban Pacific	99	25,036	-0.4	1.6	2.1	5.9
Rural by region						
Rural New England	5	1,317	-0.2	-2.4	-2.4	-2.6
Rural Middle Atlantic	12	1,248	-0.5	0.0	1.2	3.2
Rural South Atlantic	16	3,639	-0.2	0.6	-2.4	0.4
Rural East North Central	23	4,061	-0.2	0.3	1.5	4.2
Rural East South Central	21	4,523	-0.1	-0.1	3.9	6.3
Rural West North Central	22	3,178	-0.3	0.4	2.4	5.1
Rural West South Central	40	7,332	-0.3	0.6	3.6	6.5
Rural Mountain	5	626	-0.1	1.0	1.8	5.3
Rural Pacific	3	292	-0.6	0.2	3.0	5.2
Teaching status						
Non-teaching	1,014	362,675	-0.2	0.0	-0.2	2.1
Resident to ADC less than 10%	60	34,000	-0.2	0.1	0.7	3.1
Resident to ADC 10%-19%	31	11,784	-0.4	-0.1	2.6	4.7
Resident to ADC greater than 19%	14	1,523	-0.2	0.0	4.3	6.7
Disproportionate share patient percentage (DSH PP)						
DSH PP = 0%	29	5,300	-0.2	-0.7	-1.3	0.2
DSH PP <5%	139	60,003	-0.1	-0.1	-1.6	0.7

Facility Classification	Number of IRFs	Number of Cases	Outlier	FY 2020 CBSA wage index and labor-share	CMG Weights	Total Percent Change ¹
DSH PP 5%-10%	299	127,442	-0.1	-0.1	-0.7	1.6
DSH PP 10%-20%	371	139,001	-0.2	-0.1	0.0	2.2
DSH PP greater than 20%	281	78,236	-0.3	0.3	2.1	4.7

¹This column includes the impact of the updates in columns (4), (5), and (6) above, and of the proposed IRF market basket increase factor for FY 2020 (3.0 percent), reduced by 0.5 percentage point for the proposed productivity adjustment as required by section 1886(j)(3)(C)(ii)(I) of the Act.

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4. Impact of the Proposed Update to the Outlier Threshold Amount

The estimated effects of the proposed update to the outlier threshold adjustment are presented in column 4 of Table 22. In the FY 2019 IRF PPS final rule (83 FR 38531 through 38532), we used FY 2017 IRF claims data (the best, most complete data available at that time) to set the outlier threshold amount for FY 2019 so that estimated outlier payments would equal 3 percent of total estimated payments for FY 2019.

For this proposed rule, we are using preliminary FY 2018 IRF claims data, and, based on that preliminary analysis, we estimated that IRF outlier payments as a percentage of total estimated IRF payments would be 3.2 percent in FY 2019. Thus, we propose to adjust the outlier threshold amount in this proposed rule to set total estimated outlier payments equal to 3 percent of total estimated payments in FY 2020. The estimated change in total IRF payments for FY 2020, therefore, includes an approximate 0.2 percent decrease in payments because the estimated outlier portion of total payments is estimated to decrease from approximately 3.2 percent to 3 percent.

The impact of this proposed outlier adjustment update (as shown in column 4 of Table 22) is to decrease estimated overall payments to IRFs by about 0.2 percent. We estimate the largest decrease in payments from the update to the outlier threshold amount to be 0.6 percent for rural IRFs in the Pacific region.

5. Impact of the Proposed CBSA Wage Index and Labor-Related Share

In column 5 of Table 22, we present the effects of the proposed budget-neutral update of the wage index and labor-related share. The proposed changes to the wage index and the labor-related share are discussed together because the wage index is

applied to the labor-related share portion of payments, so the proposed changes in the two have a combined effect on payments to providers. As discussed in section V.E. of this proposed rule, we are proposing to update the labor-related share from 70.5 percent in FY 2019 to 72.6 percent in FY 2020.

6. Impact of the Proposed Update to the CMG Relative Weights and Average Length of Stay Values.

In column 6 of Table 22, we present the effects of the proposed budget-neutral update of the CMGs, relative weights and average length of stay values. In the aggregate, we do not estimate that these proposed updates will affect overall estimated payments of IRFs. However, we do expect these updates to have small distributional effects.

7. Effects of the Requirements for the IRF QRP for FY 2020

In accordance with section 1886(j)(7)(A) of the Act, the Secretary must reduce by 2 percentage points the market basket increase factor otherwise applicable to an IRF for a fiscal year if the IRF does not comply with the requirements of the IRF QRP for that fiscal year. In section VIII.J of this proposed rule, we discuss the proposed method for applying the 2 percentage point reduction to IRFs that fail to meet the IRF QRP requirements.

As discussed in section VIII.D. of this proposed rule, we are proposing to add two measures to the IRF QRP (1) Transfer of Health Information to the Provider—Post-Acute Care (PAC); and (2) Transfer of Health Information to the Patient—Post-Acute Care (PAC), beginning with the FY 2022 IRF QRP. We are also proposing to add standardized patient assessment data elements, as discussed in section IV.G of this proposed rule. We describe the estimated burden and cost reductions for both of these measures in section

VIII.C of this proposed rule. In summary, the proposed changes to the IRF QRP will result in a burden addition of \$7,806 per IRF annually, and \$8,119,276 for all IRFs annually.

We intend to continue to closely monitor the effects of the IRF QRP on IRFs and to help perpetuate successful reporting outcomes through ongoing stakeholder education, national trainings, IRF announcements, website postings, CMS Open Door Forums, and general and technical help desks.

D. Alternatives Considered

The following is a discussion of the alternatives considered for the IRF PPS updates contained in this proposed rule.

Section 1886(j)(3)(C) of the Act requires the Secretary to update the IRF PPS payment rates by an increase factor that reflects changes over time in the prices of an appropriate mix of goods and services included in the covered IRF services.

We are proposing a market basket increase factor for FY 2020 that is based on a proposed rebased market basket reflecting a 2016 base year. We considered the alternative of continuing to use the IRF market basket without rebasing to determine the market basket increase factor for FY 2020. However, we typically rebase and revise the market baskets for the various PPS every 4 to 5 years so that the cost weights and price proxies reflect more recent data. Therefore, we believe it is more technically appropriate to use a 2016-based IRF market basket since it allows for the FY 2020 market basket increase factor to reflect a more up-to-date cost structure experienced by IRFs.

As noted previously in this proposed rule, section 1886(j)(3)(C)(ii)(I) of the Act requires the Secretary to apply a productivity adjustment to the market basket increase factor for FY 2020. Thus, in accordance with section 1886(j)(3)(C) of the Act, we propose to update the IRF prospective payments in this proposed rule by 2.5 percent (which equals the

proposed 3.0 percent estimated IRF market basket increase factor for FY 2020 reduced by a 0.5 percentage point proposed productivity adjustment as determined under section 1886(b)(3)(B)(xi)(II) of the Act (as required by section 1886(j)(3)(C)(ii)(I) of the Act)).

As we finalized in the FY 2019 IRF PPS final rule (83 FR 38514) use of the Quality Indicators items in determining payment and the associated CMG and CMG relative weight revisions using two years of data (FY 2017 and FY 2018) beginning with FY 2020, we did not consider any alternative to proposing these changes.

However, we did consider whether or not to apply a weighting methodology to the IRF motor score that was finalized in the FY 2019 IRF PPS final rule (83 FR 38514) to assign patients to CMGs beginning in FY 2020. In light of recent analysis that indicates that weighting the motor score would improve the accuracy of payments under the IRF PPS, we believe that it is appropriate to propose to weight the motor score that would be effective on October 1, 2019.

We considered not removing the item GG0170A1 Roll left and right from the composition of the motor score. However, this item did not behave as expected in the models considered to develop the weights. Therefore, we believe it is appropriate to propose to remove this item from the construction of the weighted motor score.

We considered updating facility-level adjustment factors for FY 2020. However, as discussed in more detail in the FY 2015 final rule (79 FR 45872), we believe that freezing the facility-level adjustments at FY 2014 levels for FY 2015 and all subsequent years (unless and until the data indicate that they need to be further updated) will allow us an opportunity to monitor the effects of the substantial changes to the adjustment factors for FY 2014, and will allow IRFs time to adjust to the previous changes.

We considered not updating the IRF wage index to use the concurrent fiscal

year's IPPS wage index and instead continuing to use a one-year lag of the IPPS wage index. However, we believe that updating the IRF wage index based on the concurrent year's IPPS wage index will better align the data across acute and post-acute care settings in support of our efforts to move toward more unified Medicare payments across post-acute care settings.

We considered maintaining the existing outlier threshold amount for FY 2020. However, analysis of updated FY 2020 data indicates that estimated outlier payments would be higher than 3 percent of total estimated payments for FY 2020, by approximately 0.2 percent, unless we updated the outlier threshold amount. Consequently, we propose adjusting the outlier threshold amount in this proposed rule to reflect a 0.2 percent decrease thereby setting the total outlier payments equal to 3 percent, instead of 3.2 percent, of aggregate estimated payments in FY 2020.

We considered not amending § 412.622(a)(3)(iv) to clarify that the determination as to whether a physician qualifies as a rehabilitation physician (that is, a licensed physician with specialized training and experience in inpatient rehabilitation is made by the IRF. However, we believe that it is important to clarify this definition to ensure that IRF providers and Medicare contractors have a shared understanding of these regulatory requirements.

E. Regulatory Review Costs

If regulations impose administrative costs on private entities, such as the time needed to read and interpret this proposed rule, we should estimate the cost associated with regulatory review. Due to the uncertainty involved with accurately quantifying the number of entities that will review the rule, we assume that the total number of unique commenters on the FY 2019 IRF PPS proposed rule will be the number of reviewers of this proposed rule. We acknowledge that this assumption may understate or overstate the costs of

reviewing this proposed rule. It is possible that not all commenters reviewed the FY 2019 IRF PPS proposed rule in detail, and it is also possible that some reviewers chose not to comment on the proposed rule. For these reasons we thought that the number of past commenters would be a fair estimate of the number of reviewers of this proposed rule.

We also recognize that different types of entities are in many cases affected by mutually exclusive sections of this proposed rule, and therefore for the purposes of our estimate we assume that each reviewer reads approximately 50 percent of the rule. We sought comments on this assumption.

Using the wage information from the BLS for medical and health service managers (Code 11–9111), we estimate that the cost of reviewing this rule is \$107.38 per hour, including overhead and fringe benefits (https://www.bls.gov/oes/current/oes_nat.htm). Assuming an average reading speed, we estimate that it would take approximately 2 hours for the staff to review half of this proposed rule. For each IRF that reviews the rule, the estimated cost is \$214.76 (2 hours × \$107.38). Therefore, we estimate that the total cost of reviewing this regulation is \$23,194.08 (\$214.76 × 108 reviewers).

F. Accounting Statement and Table

As required by OMB Circular A–4 (available at <http://www.whitehouse.gov/sites/default/files/omb/assets/omb/circulars/a004/a-4.pdf>), in Table 23, we have prepared an accounting statement showing the classification of the expenditures associated with the provisions of this proposed rule. Table 23 provides our best estimate of the increase in Medicare payments under the IRF PPS as a result of the proposed updates presented in this proposed rule based on the data for 1,119 IRFs in our database. In addition, Table 23 presents the costs associated with the new IRF quality reporting program requirements for FY 2020.

TABLE 23: Accounting Statement: Classification of Estimated Expenditure

Change in Estimated Transfers from FY 2019 IRF PPS to FY 2020 IRF PPS	Category	Transfers
	Annualized Monetized Transfers	\$195 million
	From Whom to Whom?	Federal Government to IRF Medicare Providers
Change in Estimated Costs	Category	Costs
	Annualized monetized cost in FY 2020 for IRFs due to new quality reporting program requirements	\$8.1 million

G. Conclusion

Overall, the estimated payments per discharge for IRFs in FY 2020 are projected to increase by 2.3 percent, compared with the estimated payments in FY 2019, as reflected in column 7 of Table 22.

IRF payments per discharge are estimated to increase by 2.2 percent in urban areas and 4.3 percent in rural areas, compared with estimated FY 2019 payments. Payments per discharge to rehabilitation units are estimated to increase 4.8 percent in urban areas and 5.6 percent in rural areas. Payments per discharge to freestanding rehabilitation hospitals are estimated to increase 0.0 percent in urban areas and decrease 2.0 percent in rural areas.

Overall, IRFs are estimated to experience a net increase in payments as a result of the proposed policies in this proposed rule. The largest payment increase is estimated to be a 6.9 percent increase for rural government IRFs. The analysis above, together with the remainder of this preamble, provides a Regulatory Impact Analysis.

In accordance with the provisions of Executive Order 12866, this regulation was reviewed by the Office of Management and Budget.

List of Subjects in 42 CFR Part 412

Administrative practice and procedure, Health facilities, Medicare, Puerto Rico, Reporting and recordkeeping requirements.

For the reasons set forth in the preamble, the Centers for Medicare & Medicaid Services proposes to amend 42 CFR chapter IV as follows:

PART 412—PROSPECTIVE PAYMENT SYSTEMS FOR INPATIENT HOSPITAL SERVICES

■ 1. The authority citation for part 412 is revised to read as follows:

Authority: 42 U.S.C. 1302 and 1395hh.

■ 2. Section 412.622 is amended by—

■ a. Revising paragraphs (a)(3)(iv), (a)(4)(i)(A), (a)(4)(iii)(A), and (a)(5)(i); and

■ b. Adding paragraph (c).

The revisions and addition read as follows:

§ 412.622 Basis of payment.

(a) * * *

(3) * * *

(iv) Requires physician supervision by a rehabilitation physician. The requirement for medical supervision

means that the rehabilitation physician must conduct face-to-face visits with the patient at least 3 days per week throughout the patient's stay in the IRF to assess the patient both medically and functionally, as well as to modify the course of treatment as needed to maximize the patient's capacity to benefit from the rehabilitation process. The post-admission physician evaluation described in paragraph (a)(4)(ii) of this section may count as one of the face-to-face visits.

(4) * * *

(i) * * *

(A) It is conducted by a licensed or certified clinician(s) designated by a rehabilitation physician within the 48 hours immediately preceding the IRF admission. A preadmission screening that includes all of the required elements, but that is conducted more than 48 hours immediately preceding the IRF admission, will be accepted as long as an update is conducted in person or by telephone to update the patient's medical and functional status within the 48 hours immediately preceding the IRF admission and is documented in the patient's medical record.

* * * * *

(iii) * * *

(A) It is developed by a rehabilitation physician with input from the interdisciplinary team within 4 days of the patient's admission to the IRF.

* * * * *

(5) * * *

(i) The team meetings are led by a rehabilitation physician and further consist of a registered nurse with specialized training or experience in rehabilitation; a social worker or case manager (or both); and a licensed or certified therapist from each therapy discipline involved in treating the patient. All team members must have current knowledge of the patient's medical and functional status. The rehabilitation physician may lead the interdisciplinary team meeting remotely via a mode of communication such as video or telephone conferencing.

* * * * *

(c) *Definitions.* As used in this section—

Rehabilitation physician means a licensed physician who is determined by the IRF to have specialized training and experience in inpatient rehabilitation.

■ 3. Section 412.634 is amended by revising paragraphs (a)(1), (d)(1) and (5), and (f)(1) to read as follows:

§ 412.634 Requirements under the Inpatient Rehabilitation Facility (IRF) Quality Reporting Program (QRP).

(a) * * *

(1) For the FY 2018 payment determination and subsequent years, an IRF must begin reporting data under the IRF QRP requirements no later than the first day of the calendar quarter subsequent to 30 days after the date on its CMS Certification Number (CCN) notification letter, which designates the IRF as operating in the CMS designated data submission system.

* * * * *

(d) * * *

(1) IRFs that do not meet the requirement in paragraph (b) of this section for a program year will receive a written notification of non-compliance through at least one of the following methods: The CMS designated data submission system, the United States Postal Service, or via an email from the Medicare Administrative Contractor (MAC).

* * * * *

(5) CMS will notify IRFs, in writing, of its final decision regarding any reconsideration request through at least one of the following methods: The CMS designated data submission system, the United States Postal Service, or via an email from the Medicare Administrative Contractor (MAC).

* * * * *

(f) * * *

(1) IRFs must meet or exceed two separate data completeness thresholds: One threshold set at 95 percent for completion of required quality measures data and standardized patient assessment data collected using the IRF-PAI submitted through the CMS designated data submission system; and a second threshold set at 100 percent for measures data collected and submitted using the CDC NHSN.

* * * * *

Dated: March 26, 2019.

Seema Verma,

Administrator, Centers for Medicare & Medicaid Services.

Dated: March 28, 2019.

Alex M. Azar II,

Secretary, Department of Health and Human Services.

[FR Doc. 2019-07885 Filed 4-17-19; 4:15 pm]

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