



Inpatient Rehabilitation Facility Quality Reporting Program Measure Calculations and Reporting User's Manual

Version 3.1.1

Prepared for

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Quality Measure, Assessment Instrument
Development, Maintenance and Quality
Reporting Program Support for the Long-Term
Care Hospital (LTCH), Inpatient Rehabilitation
Facility (IRF), Skilled Nursing Facility (SNF)
QRPs and Nursing Home Compare (NHC)

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Overview

This addendum provides quality measure updates to the Inpatient Rehabilitation Facility (IRF) Quality Reporting Program (QRP) Measure Calculations and Reporting User's Manual, Version 3.1. This addendum, titled IRF QRP Measure Calculations and Reporting User's Manual, Version 3.1.1, provides measure-related changes specified in a change table format in lieu of a complete update to the overall manual. Updates are provided in the table below by manual chapter, section, page number, step/table indicator, updated language with strikeouts of prior language, and the description of the change. The step/table column adds specificity in locating the edits by indicating if the edits are located within a specific step or table on a given page. When edits are not found in a specific step/table, the column displays "N/A".

Measure-related changes delineated in this change table include an update to the IRF QRP self-care and mobility functional outcome measures that includes changes to the CMS IDs and age criteria. There are also updates to the data submission language and to the table summary of measure types by user-requested years in Table 5-2. Table 5-2 changes include the user-requested years, addition of new measures, and corrections of previous manual errors. This document clarifies the removal of the retired pressure ulcer quality measure, Percent of Residents or Patients with Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02). In addition, the Discharge to Community quality measure is updated to include an exclusion for residents in long-term nursing facilities. Further, there is a clarification to the expected score formula for the pressure ulcer measure, Change in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury (CMS ID: I022.01).

IRF QRP Measure Calculations and Reporting User's Manual V3.1.1 Updates

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
1.	Table of Contents	N/A	iii	N/A	Section 6.1: Percent of Residents or Patients with Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02).....23	Updated to reflect the removal of pressure ulcer measure.
2.	Table of Contents	N/A	iii-iv	N/A	Section 6.5: IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: 1009.04)43 Section 6.6: IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04)49 Section 6.7: IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04).....57 Section 6.8: IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04).....61	Incremented CMS measure identifiers.
3.	List of Tables	N/A	v	N/A	Measure Logic Specification Tables 7-1 Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02)70	Updated to reflect the removal of the pressure ulcer measure.
4.	List of Tables	N/A	v	N/A	Measure Logic Specification Tables 7-5 IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04) 77 7-6 IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04)..... 79 7-7 IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04) 82 7-8 IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04) 84	Incremented CMS measure identifiers in the List of Tables.

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
5.	List of Tables	N/A	vi	N/A	A-1 Risk-Adjustment Covariates for the Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678)90	Updated to reflect the removal of the pressure ulcer measure.
6.	1	1.3	3	Table 1-1	Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay)* (NQF #0678) (CMS ID: I001-02).	Updated to reflect the removal of the pressure ulcer measure.
7.	1	1.3	3	Table 1-1	IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009-03) (CMS ID: I009.04), IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010-03) (CMS ID: I010.04), IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011-03) (CMS ID: I011.04), and IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012-03) (CMS ID: I012.04)	Incremented CMS measure identifiers.

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
8.	1	1.3	3	Table 1-1	<p>^a This measure is NQF-endorsed for use in the IRF setting (http://www.qualityforum.org/QPS/0678) (in addition to being endorsed for use in the Long Term Care Hospital and Skilled Nursing Facility/Nursing Home (SNF/NH) settings) and finalized for reporting by IRFs under the IRF QRP (<i>Federal Register</i> 78 (6 August 2013): 47903-47919. Web. http://www.gpo.gov/fdsys/pkg/FR-2013-08-06/pdf/2013-18770.pdf and <i>Federal Register</i> 79 (6 August 2014): 45908-45918. Web. http://www.gpo.gov/fdsys/pkg/FR-2014-08-06/pdf/2014-18447.pdf. The use of the words “resident” and “short stay” in the title of this measure refers to the use of this measure in the SNF/NH setting. CMS’s use of these words does not imply that the IRF patient is a “resident” or that a stay in an IRF is a “short stay.”</p> <p>^b This measure is NQF-endorsed for long-stay residents in nursing homes (http://www.qualityforum.org/QPS/0674) and an application of this quality measure is finalized for reporting by IRFs under the IRF QRP (<i>Federal Register</i> 80 (6 August 2015): 47096-47100). Web. https://www.gpo.gov/fdsys/pkg/FR-2015-08-06/pdf/2015-18973.pdf</p> <p>^c This measure is NQF-endorsed for use in the LTCH setting (http://www.qualityforum.org/QPS/2631) and an application of this quality measure is finalized for reporting by IRFs under the IRF QRP (<i>Federal Register</i> 80 (6 August 2015): 47100-47111). Web. https://www.gpo.gov/fdsys/pkg/FR-2015-08-06/pdf/2015-18973.pdf</p>	Updated to reflect the removal of the pressure ulcer measure.

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
9.	3	N/A	7	N/A	<p>Discharge to Community-Post Acute Care (PAC) Inpatient Rehabilitation Facility (IRF) Quality Reporting Program (QRP) (NQF #3479) (CMS ID: I019.01) (CMS ID: I019.02)</p> <p>This measure reports an IRF's risk-standardized rate of Medicare fee-for-service patients who are discharged to the community following an IRF stay, and 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. Community, for this measure, is defined as home or self-care, with or without home health services. <i>A new measure denominator exclusion was finalized in the FY 2020 IRF PPS final rule to exclude IRF stays with baseline NF residents. Baseline NF residents are defined as 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 long-term NF stay and qualifying hospitalization for measure inclusion.</i></p>	Added language to characterize the addition of the denominator exclusion for removing baseline nursing facility residents. Updated CMS measure identifier.
10.	4	4.1	9	N/A	<p>Quality measures included in this section: Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02)</p>	Updated to reflect the removal of the pressure ulcer measure.
11.	4	4.1	9	N/A	<p>IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04)</p> <p>IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04)</p> <p>IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04)</p> <p>IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04)</p>	Incremented CMS measure identifiers.
12.	4	4.1	10	3	<p>a. Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02), Table 7-1</p>	Updated to reflect the removal of the pressure ulcer measure.

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
13.	4	4.1	10	3	<p>e. IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04), Table 7-5</p> <p>f. IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04), Table 7-6</p> <p>g. IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04), Table 7-7</p> <p>h. IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04), Table 7-8</p>	Incremented CMS measure identifiers.
14.	4	4.1	11	Table 4-1	Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02).	Updated to reflect the removal of the pressure ulcer measure.
15.	4	4.1	11	Table 4-1	<p>Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04), IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04), IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04), and IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04).</p>	Incremented CMS measure identifiers.

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16.	5	5.1	14	1	<p>c. The data will be "frozen" 4.5 months- (15th day of the 5th month) after the end of each calendar quarter (data submission deadline).</p> <p>i. e.g., Data will be frozen on August 15th for Quarter 1 (January 1 through March 31) data collection.</p> <p><i>c. Data submission deadline: data must be submitted by 11:59 p.m. ET on the 15th of August, November, February, or May after the end of each respective quarter. However, if the 15th of the month falls on a Friday, weekend, or federal holiday, the data submission deadline is delayed until 11:59 p.m. ET on the next business day.</i></p> <p><i>i. For example, the data submission deadline for Quarter 1 (January 1 through March 31) data collection would normally be 11:59 p.m. ET, August 15, which is the 15th day of the month. However, in FY 2021, August 15th falls on a Sunday; therefore, the deadline for this data submission is extended until the next business day which would be 11:59 p.m. ET on August 16, 2021.</i></p>	Updated data submission language for clarity and accuracy.
17.	5	5.1	14	4	<p>a. Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02)</p>	Updated to reflect the removal of the pressure ulcer measure.
18.	5	5.1	15	4	<p>e. IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04)</p> <p>f. IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04)</p> <p>g. IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04)</p> <p>h. IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04)</p>	Incremented CMS measure identifiers.

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
19.	5	5.1	16	Table 5-2	<p>In Table 5-2, the measure type by user-requested years for years 2017 to 2020 <i>2018 to 2021</i> were presented for the measures of:</p> <p>Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay)^a (NQF #0678) (CMS ID: I001.02),</p> <p>Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury (CMS ID: I022.01)^a,</p> <p>Application of Percent of Residents Experiencing One or More Falls with Major Injury (Long Stay) (NQF #0674) (CMS ID: I013.01),</p> <p>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) (CMS ID: I008.02),</p> <p>IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) <i>(CMS ID: I009.04)</i>, and</p> <p>IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) <i>(CMS ID: I010.04)</i>.</p> <p>The first four measures were repeated once in the table.</p> <p><i>Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.04),</i></p> <p><i>Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.04),</i></p> <p><i>Drug Regimen Review Conducted with Follow-Up for Identified Issues – PAC IRF QRP (CMS ID: I021.01)</i></p> <p>(See Appendix for full page excerpt.)</p>	Updated the user-requested years (i.e., 2018 through 2021), updated CMS measure identifiers, and added three measures. Removed language related to the pressure ulcer measure and any repetitions of measures.
20.	5	5.2	19	2	<p>a. Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02)</p>	Updated to reflect the removal of the pressure ulcer measure.

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21.	5	5.2	19	2	<p>e. IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04)</p> <p>f. IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04)</p> <p>g. IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04)</p> <p>h. IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04)</p>	Incremented CMS measure identifiers.
22.	6	6.2	32	3	<p>• X is a linear combination of the constant and the logistic regression coefficients times the covariate scores (from Formula [2], below):</p> <p>[2] $X = \beta_0 + \beta_1 (COV1) + \beta_2 (COV2) + \beta_3 (COV3) + \beta_4 (COV4)$</p> <p><i>[3] Probability(Y = 1) = Logit(X)</i></p> <p>Where:</p> <p>• X identifies if patient is part of the numerator count (i.e., triggering the quality measure: 1 = yes, 0 = no).</p> <p>(See Appendix for full page excerpt.)</p>	Clarified the expected score formula description for the Changes in Skin Integrity Post-Acute Care Pressure Ulcer/Injury measure (CMS ID: I022.01). Note: The implementation of the risk-adjustment model calculations were not impacted by this edit.
23.	6	6.5	43	N/A	<p>Section 6.5: IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04)</p> <p><u>iQIES Review and Correct Report Measure Calculations for IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04)</u></p>	Incremented CMS measure identifier.
24.	6	6.5	45	3.4	<p>3.4 Patients younger than 24 18 years: Age in years is calculated based on the truncated difference between admission date (Item 12) and birth date (Item 6); i.e. the difference is not rounded to nearest whole number.</p>	Updated to reflect revised age exclusion.

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25.	6	6.5	46	N/A	<u>iQIES QM Report Measure Calculations for IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633)</u> (CMS ID: I009.03) (CMS ID: I009.04)	Incremented CMS measure identifier.
26.	6	6.5	48	N/A	<u>National Average Calculation for IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633)</u> (CMS ID: I009.03) (CMS ID: I009.04)	Incremented CMS measure identifier.
27.	6	6.6	49	N/A	Section 6.6: IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04) <u>iQIES Review and Correct Report Measure Calculations for IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634)</u> (CMS ID: I010.03) (CMS ID: I010.04)	Incremented CMS measure identifier.
28.	6	6.6	53	3.4	3.4 Patients younger than 21 18 years: Age in years is calculated based on the truncated difference between admission date (Item 12) and birth date (Item 6); i.e., the difference is not rounded to nearest whole number.	Updated to reflect revised age exclusion.
29.	6	6.6	54	N/A	<u>iQIES QM Report Measure Calculations for IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634)</u> (CMS ID: I010.03) (CMS ID: I010.04)	Incremented CMS measure identifier.
30.	6	6.6	56	N/A	<u>National Average Calculation for IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634)</u> (CMS ID: I010.03) (CMS ID: I010.04)	Incremented CMS measure identifier.
31.	6	6.7	57	N/A	Section 6.7: IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04) <u>iQIES Review and Correct Report Measure Calculations for IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635)</u> (CMS ID: I011.03) (CMS ID: I011.04)	Incremented CMS measure identifier.

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32.	6	6.7	58	2.3	2.3 Patients younger than 21 18 years: Age in years is calculated based on the truncated difference between admission date (Item 12) and birth date (Item 6); i.e. the difference is not rounded to nearest whole number.	Updated to reflect revised age exclusion.
33.	6	6.7	59-60	N/A	<p><u>iQIES QM Report Measure Calculations for IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635)</u> (CMS ID: I011.03) (CMS ID: I011.04)</p> <p>This measure requires risk-adjustment for the iQIES QM Reports. Follow the steps provided above for the iQIES Review and Correct Report measure calculations for the IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04).</p> <p><u>National Average Calculation for IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635)</u> (CMS ID: I011.03) (CMS ID: I011.04)</p>	Incremented CMS measure identifier.
34.	6	6.8	61	N/A	<p>Section 6.8: IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04)</p> <p><u>iQIES Review and Correct Report Measure Calculations for IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636)</u> (CMS ID: I012.03) (CMS ID: I012.04)</p>	Incremented CMS measure identifier.
35.	6	6.8	63	2.3	2.3 Patients younger than 21 18 years: Age in years is calculated based on the truncated difference between admission date (Item 12) and birth date (Item 6); i.e., the difference is not rounded to nearest whole number. Patients discharged to hospice (home or institutional facility) (Item 44D = [50 or 51]).	Updated to reflect revised age exclusion.

#	Chapter	Section	Page Number	Step/Table	IRF QRP Measure Calculations and Reporting User's Manual V3.1.1	Description of Change
36.	6	6.8	64	N/A	<p><u>iQIES QM Report Measure Calculations for IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04)</u></p> <p>This measure requires risk-adjustment for the iQIES QM Reports. Follow the steps provided above for the iQIES Review and Correct Report measure calculations for the IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04).</p> <p><u>National Average Calculation for IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04)</u></p>	Incremented CMS measure identifier.
37.	7	N/A	70-71	Table 7-1 (removed)	Table 7-1 Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02)*	Removed Table 7-1.

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38.	7	N/A	75	Table 7-4	<p><i>Numerator</i></p> <p>Total number of patient stay-level records in the denominator meeting the following criteria on the selected functional assessment data:</p> <p><u>For patients with a complete stay, the record is counted in the numerator if:</u></p> <ul style="list-style-type: none"> a. a valid score indicating functional status (01 to 06) or a valid code indicating the activity was not attempted/not assessed (07, 09, 10, 88) or a “^”} <i>indicating items affected by the skip pattern</i> for each of the functional assessment items on the admission assessment, and^c b. a valid score indicating functional status (01 to 06) for a discharge goal indicating the patient’s expected level of independence or a valid code indicating the activity was not attempted/not assessed (07, 09, 10, 88), for at least one self-care or mobility item on the admission assessment, and c. a valid score indicating functional status (01 to 06) or a valid code indicating the activity was not attempted/not assessed (07, 09, 10, 88) or a “^”} <i>indicating items affected by the skip pattern</i> for each of the functional assessment items on the discharge assessment <p><u>For patients with an incomplete stay, the record is counted in the numerator if:</u>^d</p> <ul style="list-style-type: none"> a. valid score indicating functional status (01 to 06) or a valid code indicating the activity was not attempted/not assessed (07, 09, 10, 88) or a “^”} <i>indicating items affected by the skip pattern</i> for each of the functional assessment items on the admission assessment, and 	Definition of numerator was revised to be consistent with the Measure Calculation description provided in Section 6.4.

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38. (cont.)					b. a valid score indicating functional status (01 to 06) for a discharge goal indicating the patient's expected level of independence or a valid code indicating the activity was not attempted/not assessed (07, 09, 10, 88) for at least one self-care or mobility item on the admission assessment.	
39.	7	N/A	77-78	Table 7-5	IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: 1009.03) ^a (CMS ID: 1009.04) ^o	Updated table title to reflect incremented CMS measure identifiers.
40.	7	N/A	77	Table 7-5	<i>Numerator</i> The measure does not have a simple form for the numerator and denominator. This measure estimates the risk-adjusted change in self-care score between admission and discharge among Inpatient Rehabilitation Facility (IRF) Medicare patients age 21 18 or older. The change in self-care score is calculated as the difference between the discharge self-care score and the admission self-care score. ^c <i>Exclusions</i> Patient is younger than age 21 18:	Updated to reflect revised age exclusion.
41.	7	N/A	79-81	Table 7-6	IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: 1010.03) ^a (CMS ID: 1010.04) ^o	Updated table title to reflect incremented CMS measure identifiers.
42.	7	N/A	79	Table 7-6	<i>Numerator</i> The measure does not have a simple form for the numerator and denominator. This measure estimates the risk-adjusted change in mobility score between admission and discharge among Inpatient Rehabilitation Facility (IRF) Medicare patients age 21 18 or older. The change in mobility score is calculated as the difference between the discharge mobility score and the admission mobility score. ^c <i>Exclusions</i> Patient is younger than age 21 18:	Updated to reflect revised age exclusion.
43.	7	N/A	82-83	Table 7-7	IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: 1011.03) ^a (CMS ID: 1011.04) ^o	Updated table title to reflect incremented CMS measure identifiers.

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44.	7	N/A	82	Table 7-7	<i>Exclusions</i> Patient is younger than age 21 18:	Updated to reflect revised age exclusion.
45.	7	N/A	84-85	Table 7-8	IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03)^a (CMS ID: I012.04) ^a	Updated table title to reflect incremented CMS measure identifiers.
46.	7	N/A	84	Table 7-8	<i>Exclusions</i> Patient is younger than age 21 18:	Updated to reflect revised age exclusion.
47.	Appendix A	N/A	89	Table A-1	Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678) (CMS ID: I001.02).	Updated to reflect the removal of the pressure ulcer measure.
48.	Appendix A	N/A	89	Table A-1	Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.03) (CMS ID: I009.04), IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.03) (CMS ID: I010.04), IRF Functional Outcome Measure: Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.03) (CMS ID: I011.04), and IRF Functional Outcome Measure: Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.03) (CMS ID: I012.04).	Incremented CMS measure identifiers.
49.	Appendix A	N/A	90	Table A-2 (removed)	Table A-2 Risk Adjustment Covariates for the Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay) (NQF #0678)	Removed Table A-2.

Appendix

Appendix Contents

This appendix provides excerpts from the [IRF QRP Measure Calculations and Reporting User's Manual, V3.1](#) to contextualize the information that has been substantially changed and included in the change table of this addendum, Version 3.1.1 (i.e., the appendix provides the updates to the tables and/or formulas from V3.1 of the manual that have substantial changes). The pages within the appendix directly correspond to the QM User's Manual V3.1 and the updates to the pages have been marked up in red font. Please note: these pages contain footnote numbers that correspond to the footnote numbers included in the QM User's Manual V3.1. As such, the footnote numbers in the appendix do not start at "1" and may not be represented in a consecutive order. For example, footnote 11 in the appendix is not the 11th footnote included in this addenda, but instead is the 11th footnote in the QM User's Manual V3.1.

The Appendix Table of Contents provides an overview of the content contained within the appendix, and maps this content to the corresponding rows in the V3.1.1 change table, as well as the chapter, page number, and section where the content is located in the QM User's Manual V3.1.

Appendix Table of Contents

V3.1.1 Change Table #	V3.1 Chapter	V3.1 Page Number	IRF QRP Measure Calculations and Reporting User's Manual V3.1 Reference	Updated Section/Table
19.	5	16	Section 5.1: iQIES Review and Correct Reports	Table 5-2: Measure Types by User-Requested Year for all Assessment-Based Quality Measures (IRF-PAI)
22.	6	31-32	Section 6.2: Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury (CMS ID: I022.01)	Section 6.2: iQIES QM Report Measure Calculations for Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury (CMS ID: I022.01)

Table 5-2
Measure Types by User-Requested Year for all Assessment-Based Quality Measures (IRF-PAI)

Quality Measure	Measure Type by User-Requested Year				
	2017**	2018**	2019**	2020**	2021**
Percent of Residents or Patients With Pressure Ulcers That Are New or Worsened (Short Stay)^a (NQF #0678) (CMS ID: I001.02)-a	New	Existing	—	—	—
Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury (CMS ID: I022.01) ^a	—	—	New	Existing	Existing
Application of Percent of Residents Experiencing One or More Falls with Major Injury (Long Stay) (NQF #0674) (CMS ID: I013.01)	New	Existing	Existing	Existing	Existing
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) (CMS ID: I008.02)	New	Existing	Existing	Existing	Existing
IRF Functional Outcome Measure: Change in Self-Care Score for Medical Rehabilitation Patients (NQF #2633) (CMS ID: I009.04)	New	Existing	Existing	Existing	Existing
IRF Functional Outcome Measure: Change in Mobility Score for Medical Rehabilitation Patients (NQF #2634) (CMS ID: I010.04)	New	Existing	Existing	Existing	Existing
Discharge Self-Care Score for Medical Rehabilitation Patients (NQF #2635) (CMS ID: I011.04)		Existing	Existing	Existing	Existing
Discharge Mobility Score for Medical Rehabilitation Patients (NQF #2636) (CMS ID: I012.04)		Existing	Existing	Existing	Existing
Drug Regimen Review Conducted with Follow-Up for Identified Issues – PAC IRF QRP (CMS ID: I021.01)		—	New	Existing	Existing

^a Please refer to Chapter 6, Section 6.1.A on the effective date for data collection and implementation date for the iQIES reports.

**Note that this header has been updated for measure user-requested year. Unlike the remainder of the appendix which indicates edits with red text, the updated header text in this table is kept as white text to ensure sufficient contrast ratios between the text and background for 508-compliance purposes.

Example of quarterly rates included in the iQIES Review and Correct Reports for an *existing* measure: If the requested calendar year quarter end date is Quarter 1, 2020 (end date of March 31st), the four quarters of data that will be provided in this request will include the following: Q2 2019 (April – June), Q3 2019 (July – September), Q4 2019 (October – December), and Q1 2020 (January – March).

Example of quarterly rates included in the iQIES Review and Correct Reports for a *new* measure: If the requested calendar year quarter end date is Quarter 1, 2020 (end date of

iQIES OM Report Measure Calculations for Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury (CMS ID: I022.01)

This measure is risk-adjusted for the iQIES QM Reports and an observed and a risk-adjusted value are reported. Using the definitions in [Table 7-2](#), the following steps are used to calculate the measure.

1. Calculate the facility-level observed score (steps 1.1 through 1.2).

- 1.1 To calculate the facility-level observed score, complete steps 1 – 4 from **Chapter 6, Section 6.2**, “iQIES Review and Correct Report Measure Calculations for Changes in Skin Integrity Post-Acute Care: Pressure Ulcer/Injury.”
- 1.2 Do not multiply by 100 or round to the nearest first decimal place. All rounding will be done at the end of the measure calculation.

2. Calculate the national average observed score¹¹ (steps 2.1 through 2.3).

- 2.1 After excluding stay-level records based on the criteria listed in [Table 7-2](#) these patient stays become the denominator for the national average observed score.
- 2.2 Identify stay-level records in the denominator of the national average observed score with pressure ulcers that are new or worsened based on the criteria in [Table 7-2](#). These records comprise the numerator of the national average observed score.
- 2.3 Divide the numerator (2.2) by the denominator (2.1) to calculate the national average observed score.

Note: Because there is limited public accessibility to national assessment data, this document provides a national average observed score based on the reporting period of the regression intercept and coefficients. The national average observed score can be seen in the Risk Adjustment Appendix File. Please note that, depending on the reporting period and time of calculation, the national average observed score used in the iQIES QM Report, Provider Preview Report, and on public display on the Compare Website may vary from the national average observed score provided by these documents.

3. Calculate the facility-level expected score for each patient (steps 3.1 through 3.3).

- 3.1 Determine presence or absence of the pressure ulcer covariates for each patient.
- 3.2 Using the covariate definitions in [Table 7-2](#), assign covariate values (COV), either ‘0’ for covariate condition not present or ‘1’ for covariate condition present, for each patient for each of the four covariates as reported on the admission assessment.
- 3.3 Calculate the expected score for each IRF stay using the following formula:

$$[1] \text{ Patient – level expected score} = \frac{1}{[1 + e^{-x}]}$$

¹¹ The national average observed score is calculated using the IRF stay as the unit of analysis.

Where:

- e is the base of natural logarithms
- X is a linear combination of the constant and the logistic regression coefficients times the covariate scores (from Formula [2], below):

$$[2] X = \beta_0 + \beta_1(COV_1) + \beta_2(COV_2) + \beta_3(COV_3) + \beta_4(COV_4)$$

$$[3] \text{Probability}(Y = 1) = \text{Logit}(X)$$

Where:

- Y identifies if patient is part of the numerator count (i.e., triggering the quality measure: 1 = yes, 0 = no).
- β_0 is the logistic regression constant or intercept.
- β_1 is the logistic regression coefficient for the first covariate “functional limitation,” and COV_1 is the patient-level covariate value.
- β_2 is the logistic regression coefficient for the second covariate “bowel incontinence,” and COV_2 is the patient-level covariate value.
- β_3 is the logistic regression coefficient for the third covariate “diabetes or peripheral vascular disease/peripheral artery disease (PVD/PAD),” and COV_3 is the patient-level covariate value.
- β_4 is the logistic regression coefficient for the fourth covariate “low body mass index (BMI),” and COV_4 is the patient-level covariate value.

See **Appendix A**, [Table A-3](#), and the associated Risk Adjustment Appendix File for the regression constant and coefficients.¹² The regression constant and coefficients are values obtained through statistical logistic regression analysis. Please note that the iQIES QM and Provider Preview Reports uses fixed regression constant and coefficients based on the target period stated in [Table A-3](#) and the Risk Adjustment Appendix File.

4. Calculate the mean facility-level expected score (step 4.1).

- 4.1 Once patient-level expected scores have been calculated, calculate the mean facility-level expected score as the mean of the facility’s patient-level expected scores.

5. Calculate the facility-level risk-adjusted score (steps 5.1 through 5.3).

- 5.1 Calculate the facility-level risk-adjusted score based on the:
 - Facility-level observed quality measure score (steps 1.1 through 1.2)
 - Mean facility-level expected quality measure score (step 4.1)
 - National average observed quality measure score (steps 2.1 through 2.3)
 - The calculation of the risk-adjusted score uses the following equation:

¹² The regression constant (intercept) and coefficient values have been rounded to four decimal places. When applying these values to the equation to calculate facility-level QM scores, these intercept and coefficient values should be used; do not round to fewer than four decimal places. This is to ensure consistency and accuracy of measure calculations.