

#	Chapter/ Appendix	Section	Page(s)	Step(s)/ Table	LTCH QRP Measure Calculations and Reporting User's Manual V3.0	LTCH QRP Measure Calculations and Reporting User's Manual V3.1	Description of Change
1	n/a	n/a	n/a	n/a	Version 3.0	Version 3.1	Updated version number on the title page.
2	n/a	n/a	n/a	n/a	LTCH QRP Measure Calculations and Reporting User's Manual, V3.0— Effective July 1, 2018	LTCH QRP Measure Calculations and Reporting User's Manual, V3.1— Effective October 1, 2019	Updated version number and effective date on the footer.
3	Document	Multiple	Multiple	n/a	CASPER	iQIES	Changed CASPER to iQIES to reflect change in data submission system throughout document.
4	Document	Multiple	Multiple	n/a	Long-Term Care Hospital (LTCH) Functional Outcome Measure: Change in Mobility Among Patients Requiring Ventilator Support (NQF #2632) (CMS ID: L011.02)	Long-Term Care Hospital (LTCH) Functional Outcome Measure: Change in Mobility Among Patients Requiring Ventilator Support (NQF #2632) (CMS ID: L011.03)	Updated CMS ID to reflect changes in the measure specifications.
5	1	1.3	4	n/a	<ul style="list-style-type: none"> Influenza Season: The influenza season begins on July 1 of a given year and ends on June 30 of the subsequent year (e.g., July 1, 2017 through June 30, 2018 for the 2017–2018 influenza season). Influenza Vaccination Season: The influenza vaccination season begins on October 1 of a given year and ends on March 31 of the subsequent year (e.g., October 1, 2017 through March 31, 2018 for the 2017–2018 influenza vaccination season). 	[no text]	Definitions removed due to removal of related measure from LTCH QRP.
6	1	1.3	6	1-1	Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine	[no text]	Row of table removed due to removal of measure from LTCH QRP.

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7	2	n/a	7	n/a	<p>National Healthcare Safety Network (NHSN) Facility-wide Inpatient Hospital-onset <i>Methicillin-Resistant Staphylococcus aureus</i> (MRSA) Bacteremia Outcome Measure (NQF #1716) (CMS ID: L013.01)</p> <ul style="list-style-type: none"> • This measure calculates the total number of observed hospital-onset unique blood source MRSA LabID events among all inpatients in the facility, from the total number of expected hospital-onset unique blood source MRSA LabID events, determined through the facility's number of inpatient days, bed size, affiliation with medical school, and community-onset MRSA bloodstream infection admission prevalence rate. This measure is risk-adjusted. ○ CDC NHSN: MRSA 	[no text]	Text removed due to removal of measure from LTCH QRP.

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8	2	n/a	8	n/a	<p>Ventilator-Associated Event (VAE) Outcome Measure (CMS ID: L016.01)</p> <ul style="list-style-type: none"> This measure reports each VAE that is identified by summing daily counts of ventilator days, which are the numbers of patients managed with ventilator appropriate devices, during the month selected for surveillance and reporting the total number of VAEs for the respective month. <ul style="list-style-type: none"> CDC NHSN: VAE 	[no text]	Text removed due to removal of measure from LTCH QRP.
9	3	n/a	9	n/a	<p>All-Cause Unplanned Readmission Measure for 30 Days Post Discharge from Long Term Care Hospitals (NQF #2512) (CMS ID: L008.01)</p> <ul style="list-style-type: none"> This measure estimates the risk-standardized rate of unplanned, all-cause readmissions for patients (Medicare fee-for-service [FFS] beneficiaries) discharged from long-term care hospitals (LTCH) who were readmitted to a short-stay acute-care hospital or LTCH, within 30 days of an LTCH discharge. <ul style="list-style-type: none"> Medicare Claims-Based: All-Cause Unplanned Readmission 	[no text]	Text removed due to removal of measure from LTCH QRP.

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10	4	4.2	12	n/a	Section 4.2: Quality Measure: Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine (Short Stay) (NQF #0680) (CMS ID: L002.01)	[no text]	Entire section deleted due to removal of measure from LTCH QRP.
11	4	4.1	14	4-1	Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine (Short Stay) (NQF #0680) (CMS ID: L002.01)	[no text]	Row removed due to removal of measure from LTCH QRP.
12	5	5.1	16	n/a	Below are the specifications for the CASPER Review and Correct Reports for the quality measures presented in Chapter 4, Sections 4.1 and 4.2:	Below are the specifications for the iQIES Review and Correct Reports for the quality measures presented in Chapter 4, Section 4.1:	Updated text to reflect removal of section.
13	5	5.1	17	6	6. The illustration of reporting timeline for the CASPER Review and Correct Reports for the following quality measure is provided in Table 5-5 for the quarterly rates and Table 5-6 for the cumulative rates: a. Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine (Short Stay) (NQF #0680) (CMS ID: I002.01)	[no text]	Removed text to reflect removal of measure from LTCH QRP.

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14	5	5.1	17	n/a	Table 5-1 defines the discharge dates included for each calendar year quarter and influenza season quarter. Note that the influenza season starts on July 1st which means Quarter 1 begins on July 1st as opposed to January 1st. Table 5-2 displays whether the quality measure was considered new or existing for CASPER reporting in the user-requested year. For new measures, data is accumulated until 4 quarters have been collected and then rolling quarters occur for subsequent years. For existing measures, data is displayed based on rolling quarters. The Change in Mobility and Patient Influenza Vaccine measures have separate tables since it is the exception to this rule.	Table 5-1 defines the discharge dates included for each calendar year quarter. Table 5-2 displays whether the quality measure was considered new or existing for iQIES reporting in the user-requested year. For new measures, data is accumulated until 4 quarters have been collected and then rolling quarters occur for subsequent years. For existing measures, data is displayed based on rolling quarters. The Change in Mobility measure has a separate table since they are the exceptions to this rule.	Removed text to reflect removal of measure from LTCH QRP.
15	5	5.1	17	5-1	Table 5-1: Discharge Dates for Each Quarter Defined by Calendar Year and Influenza Season	Table 5-1: Discharge Dates for Each Quarter Defined by Calendar Year	Removed text and updated table to reflect removal of measure from LTCH QRP.
16	5	5.1	18	5-2	[no text]	2020	New 2020 measure type column added.
17	5	5.1	22	5-6	Table 5-6: CASPER Review and Correct Reports: Patient Influenza Vaccine Quarterly Rates Included in Each Requested Quarter End Date	[no text]	Removed table to reflect removal of measure from LTCH QRP.
18	5	5.1	23	5-7	Table 5-7: CASPER Review and Correct Reports: Patient Influenza Vaccine Data Included in the Cumulative Rate for Each Requested Quarter End Date	[no text]	Removed table to reflect removal of measure from LTCH QRP.

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19	5	5.2	24	n/a	7. Below are the specifications for the CASPER QM Reports for measures presented in Chapter 4, Section 4.1 and 4.2.	Below are the specifications for the iQIES QM Reports for measures presented in Chapter 4, Section 4.1.	Removed text to reflect removal of measure from LTCH QRP.
20	5	5.2	24	4	4. The illustration of reporting timeline for the monthly CASPER QM Reports is provided in Table 5-10 for the following measure: a. Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine (Short Stay) (NQF #0680) (CMS ID: L002.01)	[no text]	Removed table to reflect removal of measure from LTCH QRP.
21	5	5.2	28	5-10	Table 5-10: CASPER QM Reports: Patient Influenza Vaccine Data Included in the Cumulative Rate for Each Requested Report End Date	[no text]	Removed table to reflect removal of measure from LTCH QRP.
22	6	6.1; 6.2; 6.4; 6.9	Multiple	n/a	[no text]	National Average Calculation To calculate the patient stay-level (i.e., prevalence) national average, refer to step 2 under the CASPER QM Report Measure Calculations for this measure.	Added instructions towards the end of each measure specification on how to calculate the national average for clarification.

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23	6	6.3; 6.5; 6.6; 6.7; 6.8	Multiple	n/a	[no text]	<p data-bbox="1127 180 1478 207">National Average Calculation</p> <p data-bbox="1127 215 1579 315">Use the following steps to calculate the <u>patient stay-level</u> (i.e., prevalence) national average:</p> <ol data-bbox="1171 345 1579 1351" style="list-style-type: none"> <li data-bbox="1171 345 1579 548">1. Determine the total number of patient stays in the nation after the exclusion criteria, if applicable. This is the denominator for the national average. <li data-bbox="1171 557 1579 800">2. Identify patient stays in the denominator of the national average that are included in the numerator for this measure. This is the numerator for the national average. <li data-bbox="1171 808 1579 1351">3. Divide the numerator (step 2) by the denominator (step 1) then multiply by 100 and round the percent value to one decimal place to obtain the national average. <ol data-bbox="1220 1036 1579 1351" style="list-style-type: none"> <li data-bbox="1220 1036 1579 1239">a. If the digit in the second decimal place is 5 or greater, add 1 to the first decimal place, otherwise leave the first decimal place unchanged. <li data-bbox="1220 1247 1579 1351">b. Drop all of the digits following the first decimal place. 	Added instructions towards the end of each measure specification on how to calculate the national average for clarification.

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24	6	6.4	44-45	4	<p>4. Identify and count the included patient stays (target population). Calculate the total number of patient stay records with the discharge date in the measure target period and require ventilator support at the time of LTCH admission. Patients who do not require ventilator support are excluded from this measure. Identify patients requiring invasive ventilator support at the time of LTCH admission using the following items:</p> <ul style="list-style-type: none"> • Invasive Mechanical Ventilation Support: weaning (O0150A = [1]) or • Invasive Mechanical Ventilation Support: non-weaning (O0150A = [2]) 	<p>4. Identify and count the included patient stays (target population). Calculate the total number of patient stay records with the discharge date in the measure target period and require ventilator support at the time of LTCH admission. Patients who do not require ventilator support are excluded from this measure. Identify patients requiring invasive ventilator support at the time of LTCH admission using the following items:</p> <p><i>For patient stay records with discharge date <u>prior to</u> 07/01/2018:</i></p> <ul style="list-style-type: none"> • Invasive Mechanical Ventilation Support: weaning (O0100F3 = [1]) or • Invasive Mechanical Ventilation Support: non-weaning (O0100F4 = [1]) <p><i>For patient stay records with discharge date on or after 07/01/2018:</i></p> <ul style="list-style-type: none"> • Invasive Mechanical Ventilation Support: weaning (O0150A = [1]) or • Invasive Mechanical Ventilation Support: non-weaning (O0150A = [2]) 	Added clarification for patient stays with discharge dates prior to 07/01/2018.

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25	6	6.4	46	4	<p>4. Calculate the risk-adjusted average change in mobility score (steps 4.1 through 4.2)</p> <p>4.1 Divide the facility-level average observed change in mobility score (step 1) by the facility-level average expected change in mobility score (step 3) to create an observed to expected ratio.</p> <p>4.2 Multiply each LTCH's ratio by the national average change in mobility score (step 2). This is the risk-adjusted average mobility score.</p>	<p>4. Calculate the risk-adjusted average change in mobility score (steps 4.1 through 4.2)</p> <p>4.3 Calculate the difference between the facility-level average observed change in score (step 1) and the facility-level average expected change in score (step 3) to create an observed minus expected difference.</p> <ul style="list-style-type: none"> • A value that is 0 indicates the observed score and expected score are equal. • A value that is greater than 0 indicates that the observed change in score is higher (better) than the expected score. • A value that is less than 0 indicates that the observed change in score is lower (worse) than the expected score. <p>4.4 Add each LTCH's difference score to the national average change in mobility score (Step 2). This is the risk-adjusted average mobility score.</p>	Updated risk-adjusted calculation step from the ratio to the difference method.

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26	6	6.7	62–64	n/a	Section 6.7 Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine (Short Stay) (NQF #0680) (CMS ID: L002.01)	[no text]	Entire section deleted due to removal of measure from LTCH QRP.
27	Document	Multiple	Multiple	n/a	Section 6.8: Drug Regimen Review Conducted with Follow-Up for Identified Issues – PAC LTCH QRP (CMS ID: L020.01) Section 6.9: Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay (CMS ID: L022.01) Section 6.10: Ventilator Liberation Rate (CMS ID: L023.01)	Section 6.7: Drug Regimen Review Conducted with Follow-Up for Identified Issues – PAC LTCH QRP (CMS ID: L020.01) Section 6.8: Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay (CMS ID: L022.01) Section 6.9: Ventilator Liberation Rate (CMS ID: L023.01)	Section numbers updated throughout document.
28	7	n/a	78	7-4	(Facility-level observed change score / Facility-level expected change score) * National average change score.	(Facility-level observed change score – Facility-level expected change score) + National average change score.	Updated risk-adjusted calculation step from the ratio to the difference method.

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29	7	n/a	83-84	7-4	<p>12. Total Parenteral Nutrition on Admission: a. = [1] (Yes) if O0100N (Other Treatments: Total parenteral nutrition) = [1] b. Else = [0] (No)</p> <p>15. Comorbidities: Acute Renal Failure: a. = [1] (Yes) if I1502 = [1] b. Else = [0] (No)</p> <p>16. Comorbidities: Major Infections: Septicemia, Sepsis, Systemic Inflammatory Response Syndrome/Shock, Central Nervous System Infections, Opportunistic Infections, Bone/Joint/Muscle Infections/Necrosis a. = [1] (Yes) if I2101 = [1] or I2600 = [1] b. Else = [0] (No)</p> <p>22. Comorbidities: Malnutrition (protein or calorie): a. = [1] (Yes) if I5601 = [1] b. Else = [0] (No)</p>	[no text]	Removal of 4 Covariates: Total Parenteral Nutrition on Admission, Acute Renal Failure, Major Infections, Malnutrition (protein or calorie).

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30	7	n/a	92-95	7-7; 7-7a; 7-7b; 7-7c	<p>Table 7-7 Percent of Residents or Patients Who Were Assessed and Appropriately Given the Seasonal Influenza Vaccine (NQF #0680) (CMS ID: L002.01)</p> <p>Table 7-7a Percent of Residents or Patients Who Received the Seasonal Influenza Vaccine (Short Stay) (NQF #0680a) (CMS ID: L003.01)</p> <p>Table 7-7b Percent of Residents or Patients Who Were Offered and Declined the Seasonal Influenza Vaccine (Short Stay) (NQF #0680b) (CMS ID: L004.01)</p> <p>Table 7-7c Percent of Residents or Patients Who Did Not Receive, Due to Medical Contraindication, the Seasonal Influenza Vaccine (Short Stay) (NQF #0680c) (CMS ID: L005.01)</p>	[no text]	Removed table to reflect removal of measure from LTCH QRP.
31	Document	Multiple	Multiple	7-8; 7-9; 7-10	<p>Table 7-8 Drug Regimen Review Conducted with Follow-Up for Identified Issues – PAC LTCH QRP (CMS ID: L020.01)</p> <p>Table 7-9 Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay (CMS ID: L022.01)</p> <p>Table 7-10 Ventilator Liberation Rate (CMS ID: L023.01)</p>	<p>Table 7-7 Drug Regimen Review Conducted with Follow-Up for Identified Issues – PAC LTCH QRP (CMS ID: L020.01)</p> <p>Table 7-8 Compliance with Spontaneous Breathing Trial (SBT) by Day 2 of the LTCH Stay (CMS ID: L022.01)</p> <p>Table 7-9 Ventilator Liberation Rate (CMS ID: L023.01)</p>	Table numbers updated throughout document.

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32	A	n/a	103	A-4	Prior functioning: indoor ambulation Dependent = [1] (Yes) if GG0100B = [1] (Dependent); Else = [0] (No)	Prior functioning: indoor ambulation Dependent = [1] (Yes) if GG0100B = [1] (Dependent) or GG0100B = [9] (Not Applicable); Else = [0] (No)	Added GG0100B = 9 to this covariate.
33	A	n/a	104	A-4	4 rows with the following covariates and its coding logic: Total Parenteral Nutrition on Admission, Acute Renal Failure, Major Infections, Malnutrition (protein or calorie)	[no text]	Removal of rows that contained the following 4 covariates and its coding logic: Total Parenteral Nutrition on Admission, Acute Renal Failure, Major Infections, Malnutrition (protein or calorie).