# 2020 Hospitalist – Clinical Performance Registry (H-CPR) Measure Specifications Manual

Measure #	Measure Title
Hospitalist Measures	
HCPR3	Mean Length of Stay for Inpatients – Pneumonia
HCPR4	Mean Length of Stay for Inpatients – CHF
HCPR5	Mean Length of Stay for Inpatients – COPD
HCPR14	Venous Thromboembolism (VTE) Prophylaxis
<u>HCPR19</u>	30 Day All Cause Readmission Rate for Discharged Inpatients
ECPR51	Discharge Prescription of Naloxone after Opioid Poisoning or Overdose
SNF Measures	
<u>HCPR16</u>	Physician's Orders for Life-Sustaining Treatment (POLST) Form
HCPR17	Pressure Ulcers – Risk Assessment and Plan of Care
<u>HCPR18</u>	Unintentional Weight Loss – Risk Assessment and Plan of Care
Critical Care Measures	
HCPR20	Clostridium Difficile – Risk Assessment and Plan of Care
HCPR22	Critical Care Transfer of Care – Use of Verbal Checklist or Protocol

Measure Title: Mean Length of Stay for Inpatients - Pneumonia

Inverse Measure: Yes

Measure Description: Risk-Adjusted Mean LOS for All Inpatients Diagnosed with Pneumonia

National Quality Strategy Domain: Efficiency and Cost Reduction

Type of Measure: Outcome, High Priority

Meaningful Measure Area: Patient-Focused Episode of Care

**Current Clinical Guideline:** This metric is universally measured in hospitals across the US as a surrogate outcome measure for overall care; evidence-based care contributes to lower hospital inpatient LOS while improving outcomes

# Clinical Category: Hospital Efficiency

**Reporting Measure:** Mean Time (in Days) from Admission to Inpatient Status to Hospital Discharge Observed/Expected Ratio

## Number of Performance Rates: 1

## Measure Scoring: Ratio

**Numerator:** [Note: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we use this field to define the measure outcome.]

The Outcome for This Measure Is Mean Time (in Days) from Admission to Inpatient Status to Hospital Discharge for Pneumonia Patients

## Numerator Exclusions: None

## Denominator:

- Patients Evaluated by the Eligible Professional (E/M Codes 99221-99223, 99231-99233, 99238-99239, and 99291-99292 AND Place of Service Indicator: 21 (Note: please see weighting methodology below)) PLUS
- LOS ≤ 120 days <u>PLUS</u>
- E/M admission code (99221, 99222 or 99223) AND E/M discharge code (99238 or 99239) by Eligible Professional or one of Eligible Professional's associates treating these patients <u>PLUS</u>
- Provider of record ("AI") modifier specified for Medicare patients with E/M Codes 99221-99223 or 99231-99233 <u>PLUS</u>
- Discharge diagnosis of pneumonia
  - ICD-10: A02.22, A15.0, A15.7, A22.1, A24.1, A48.1, A54.84, A70, B25.0, B58.3, B59, J10.00, J10.01, J10.08, J11.00, J11.08, J12.0, J12.1, J12.2, J12.3, J12.81, J12.89, J12.9, J13, J14, J15.0, J15.1, J15.20, J15.211, J15.212, J15.29, J15.3,

J15.4, J15.5, J15.6, J15.7, J15.8, J15.9, J16.0, J16.8, J17, J18.0, J18.1, J18.2, J18.8, J18.9, J69.0, J69.1, J69.8, J84.116, J84.89, J95.4, J95.851, P24.01, P24.11, P24.21, P24.31, P24.81

• Patients who expired during inpatient care or left AMA are excluded

## Denominator Exclusions: None

## Risk Adjustment: Yes

## **Risk Adjustment:**

The purpose of the risk-adjustment is to determine the provider and system level contributions to the outcome after adjusting for patient-level demographic and clinical characteristics. Length of stay times are risk-adjusted for the overall and subgroups as continuous variables after normalization.

# Risk-adjustment derivation:

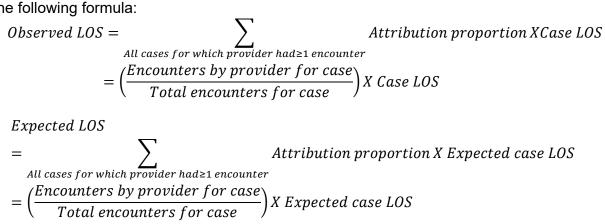
*Model*: A regression model with fixed-effects (patient age, sex, and presence of comorbidities) and DRG severity weight (CMS geometric mean LOS for the DRG) is used. Normal distribution is ensured and then a linear regression performed. *Datasets*: The most recent available Health Care Utilization Project (HCUP) National Inpatient Sample dataset are utilized. This dataset contains over 20 million records per year and is a rich source for the derivation and validation of the model. The comorbidities are derived by mapping the ICD-9 and ICD-10 diagnoses to the relevant Charlson comorbidity index categories.

# Risk-adjustment application:

The results of the risk-adjustment derivation are used as a model with the relative patient level factors and a beta-coefficient weight for each of those factors. The coefficient weights from the risk-adjustment model are applied to the performance data to provide an expected outcome for each patient. For each provider, the observed outcome over the expected outcome is summed to produce and observed/expected ratio.

# Eligible Professional Weighting Methodology:

When multiple hospitalist Eligible Professionals have provided care during the patient's inpatient stay (i.e. all contributing to a portion of the patient's LOS), a weighting methodology is utilized to calculate the portion of the LOS attributed to each Eligible Professional on the case via the following formula:



Note: For purposes of weighting, encounters are defined as consisting of visit codes: 99221-

99223, 99231-99233, 99238-99239, and 99291-99292.

# Rationale:

Universally hospitals across the United State utilize mean length of stay (LOS) measures as surrogate outcome measures for overall care because evidence-based inpatient medical care reduces hospital inpatient LOS while improving outcomes. Evidence-based hospital treatments of Congestive Heart Failure (CHF), Pneumonia (PNA) and Acute Exacerbations of Chronic Bronchitis (AECB) along with supportive care (e.g. venous thromboembolism prophylaxis) reduce hospital LOS, inpatient complications, and 30-day mortality rates. Elderly patients along with those admitted for CHF, COPD, and AECB account for over 60% of inpatient admissions. Reducing inpatient LOS addresses utilization, improves hospital throughput, increases inpatient bed capacity, and reduces Emergency Department crowding.

LOS ratios demonstrate the overall efficiency of the hospital's operating system in providing predictable and reliable patient-centered care. Understanding this ratio enables a health system to begin to identify opportunities for improving patient flow, increasing capacity, improving revenue performance, and reducing case costs (Care Logistics).

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Measure Title: Mean Length of Stay for Inpatients - CHF

Inverse Measure: Yes

**Measure Description:** Risk-Adjusted Mean LOS for All Inpatients Diagnosed with Congestive Heart Failure (CHF)

National Quality Strategy Domain: Efficiency and Cost Reduction

Type of Measure: Outcome, High Priority

Meaningful Measure Area: Patient-Focused Episode of Care

**Current Clinical Guideline:** This metric is universally measured in hospitals across the US as a surrogate outcome measure for overall care; evidence-based care contributes to lower hospital inpatient LOS while improving outcomes

Clinical Category: Hospital Efficiency

**Reporting Measure:** Mean Time (in Days) from Admission to Inpatient Status to Hospital Discharge Observed/Expected Ratio

# Number of Performance Rates: 1

Measure Scoring: Ratio

**Numerator:** [Note: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we use this field to define the measure outcome.]

The Outcome for This Measure Is Mean Time (in Days) from Admission to Inpatient Status to Hospital Discharge for CHF Patients

# Numerator Exclusions: None

## Denominator:

- Patients Evaluated by the Eligible Professional (E/M Codes 99221-99223, 99231-99233, 99238-99239, and 99291-99292 AND Place of Service Indicator: 21 (Note: please see weighting methodology below)) PLUS
- LOS ≤ 120 days <u>PLUS</u>
- E/M admission code (99221, 99222 or 99223) AND E/M discharge code (99238 or 99239) by Eligible Professional or one of Eligible Professional's associates treating these patients <u>PLUS</u>
- Provider of record ("AI") modifier specified for Medicare patients with E/M Codes 99221-99223 or 99231-99233 <u>PLUS</u>
- Discharge diagnosis of CHF
  - ICD-10: I11.0, I13.0, I13.2, I50.1, I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.9

• Patients who expired during inpatient care or left AMA are excluded

# Denominator Exclusions: None

## Risk Adjustment: Yes

# **Risk Adjustment:**

The purpose of the risk-adjustment is to determine the provider and system level contributions to the outcome after adjusting for patient-level demographic and clinical characteristics. Length of stay times are risk-adjusted for the overall and subgroups as continuous variables after normalization.

# Risk-adjustment derivation:

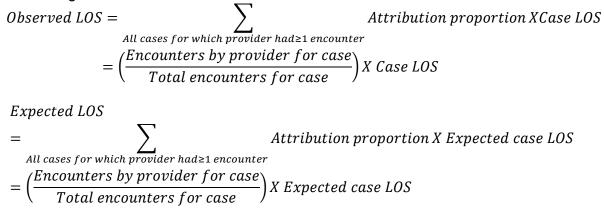
*Model*: A regression model with fixed-effects (patient age, sex, and presence of comorbidities) and DRG severity weight (CMS geometric mean LOS for the DRG) is used. Normal distribution is ensured and then a linear regression performed. *Datasets*: The most recent available Health Care Utilization Project (HCUP) National Inpatient Sample dataset are utilized. This dataset contains over 20 million records per year and is a rich source for the derivation and validation of the model. The comorbidities are derived by mapping the ICD-9 and ICD-10 diagnoses to the relevant Charlson comorbidity index categories.

# Risk-adjustment application:

The results of the risk-adjustment derivation are used as a model with the relative patient level factors and a beta-coefficient weight for each of those factors. The coefficient weights from the risk-adjustment model are applied to the performance data to provide an expected outcome for each patient. For each provider, the observed outcome over the expected outcome is summed to produce and observed/expected ratio.

Eligible Professional Weighting Methodology:

When multiple hospitalist Eligible Professionals have provided care during the patient's inpatient stay (i.e. all contributing to a portion of the patient's LOS), a weighting methodology is utilized to calculate the portion of the LOS attributed to each Eligible Professional on the case via the following formula:



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# Rationale:

Universally hospitals across the United State utilize mean length of stay (LOS) measures as surrogate outcome measures for overall care because evidence-based inpatient medical care reduces hospital inpatient LOS while improving outcomes. Evidence-based hospital treatments of Congestive Heart Failure (CHF), Pneumonia (PNA) and Acute Exacerbations of Chronic Bronchitis (AECB) along with supportive care (e.g. venous thromboembolism prophylaxis) reduce hospital LOS, inpatient complications, and 30-day mortality rates. Elderly patients along with those admitted for CHF, COPD, and AECB account for over 60% of inpatient admissions. Reducing inpatient LOS addresses utilization, improves hospital throughput, increases inpatient bed capacity, and reduces Emergency Department crowding.

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Measure Title: Mean Length of Stay for Inpatients – COPD

Inverse Measure: Yes

**Measure Description:** Risk-Adjusted Mean LOS for All Inpatients Diagnosed with Chronic Obstructive Pulmonary Disease (COPD)

National Quality Strategy Domain: Efficiency and Cost Reduction

Type of Measure: Outcome, High Priority

Meaningful Measure Area: Patient-Focused Episode of Care

**Current Clinical Guideline:** This metric is universally measured in hospitals across the US as a surrogate outcome measure for overall care; evidence-based care contributes to lower hospital inpatient LOS while improving outcomes

Clinical Category: Hospital Efficiency

**Reporting Measure:** Mean Time (in Days) from Admission to Inpatient Status to Hospital Discharge Observed/Expected Ratio

## Number of Performance Rates: 1

Measure Scoring: Ratio

**Numerator:** [Note: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we use this field to define the measure outcome.]

The Outcome for This Measure Is Mean Time (in Days) from Admission to Inpatient Status to Hospital Discharge for COPD Patients

# Numerator Exclusions: None

## **Denominator:**

- Patients Evaluated by the Eligible Professional (E/M Codes 99221-99223, 99231-99233, 99238-99239, and 99291-99292 AND Place of Service Indicator: 21 (Note: please see weighting methodology below)) <u>PLUS</u>
- LOS ≤ 120 days <u>PLUS</u>
- E/M admission code (99221, 99222 or 99223) AND E/M discharge code (99238 or 99239) by the Eligible Professional or one of Eligible Professional's associates treating these patients <u>PLUS</u>
- Provider of record ("AI") modifier specified for Medicare patients with E/M Codes 99221-99223 or 99231-99233 <u>PLUS</u>
- Discharge diagnosis of COPD
  ICD-10: J41.0, J41.1, J41.8, J42, J43.0, J43.1, J43.2, J43.8, J43.9, J44.0, J44.1,

J44.9

• Patients who expired during inpatient care or left AMA excluded

# Denominator Exclusions: None

# Risk Adjustment: Yes

# **Risk Adjustment:**

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Risk-adjustment derivation:

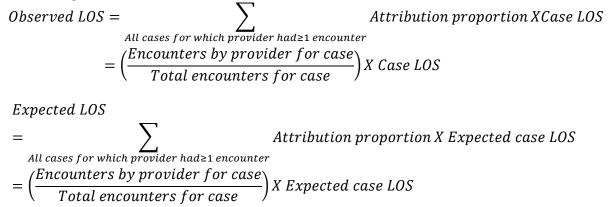
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Risk-adjustment application:

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# Rationale:

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Adopted from 2017 Specifications Manual for National Hospital Quality Measure VTE-1

Measure Title: Venous Thromboembolism (VTE) Prophylaxis

#### Inverse Measure: No

**Measure Description:** Percentage of Adult Patients Who Had VTE Prophylaxis Ordered on the Day Of or the Day After Hospital Admission <u>OR</u> Have Documentation of Why No VTE Prophylaxis Was Ordered

National Quality Strategy Domain: Patient Safety

Type of Measure: Process, High Priority

Meaningful Measure Area: Preventable Healthcare Harm

**Current Clinical Guideline:** This measure is derived from National Hospital Quality Measure VTE-1

Clinical Category: VTE

#### Number of Performance Rates: 1

#### Measure Scoring: Proportion

**Numerator:** Patients who had VTE prophylaxis ordered on the day of or the day after hospital admission <u>OR</u> have documentation why no VTE prophylaxis was ordered on the day of or the day after hospital admission

Numerator Options

- Performance Met (either of below qualify):
  - Acceptable VTE Prophylaxis (Note: This is not meant to be an inclusive list of all available anticoagulants; rather it represents current information available at the time of publication):
    - Pharmacologic Prophylaxis: Low dose unfractionated heparin (LDUH), Low molecular weight heparin (LMWH), Warfarin/Coumadin, IV Factor Xa Inhibitor such as Arixtra/Fondaparinux, Oral Factor Xa Inhibitor such as Xarelto/Rivaroxaban (must document why oral factor Xa was used for VTE Prophylaxis [acceptable reasons are: Atrial fibrillation, Atrial flutter, Hip arthoplasty/replacement, Total knee arthoplasty/replacement, or history of treatment for VTE or current VTE treatment])
    - Mechanical Prophylaxis: Intermittent pneumatic compression devices (IPC), Graduated compression stockings (GCS), Venous foot pumps (VFP)
  - Acceptable Reason(s) For No VTE Prophylaxis:
    - There is explicit documentation indicating that the patient is at low risk for VTE (i.e. Patient at low risk for VTE, No VTE Prophylaxis needed) <u>OR</u>
    - There is explicit documentation of a contraindication to both mechanical prophylaxis <u>AND</u> documentation of a contraindication to pharmacological prophylaxis.
- Performance Not Met: No VTE prophylaxis ordered on the day of or the day after

hospital admission <u>AND</u> no documentation why no VTE prophylaxis was ordered on the day of or the day after hospital admission

# Numerator Exclusions: None

## Denominator:

- Inpatients ≥ 18 years of age evaluated by the Eligible Professional (E/M Codes 99221-99223, 99231-99233, 99238-99239, 99291-99292 AND Place of Service Indicator: 21) PLUS
- $\overline{\text{LOS}} \ge 2$  days and  $\le 120$  days
- Patients with Comfort Measures Only documented on day of or day after hospital arrival are excluded
- Patients enrolled in clinical trials are excluded

# Denominator Exclusions: None

# Risk Adjustment: No

# Rationale:

(Adopted from 2017 Specifications Manual for National Hospital Quality Measure VTE-1) Hospitalized patients at high-risk for VTE may develop an asymptomatic deep vein thrombosis (DVT), and die from pulmonary embolism (PE) even before the diagnosis is suspected. The majority of fatal events occur as sudden or abrupt death, underscoring the importance of prevention as the most critical action step for reducing death from PE (Geerts, 2008).

The estimated annual incidence of deep-vein thrombosis (DVT) and pulmonary embolism (PE), known collectively as venous thromboembolism (VTE), is approximately 900,000 (Geerts, 2008). Approximately two-thirds of cases of DVT or PE are associated with recent hospitalization. This is consistent with the 2001 report by The Agency for Healthcare Research and Quality (AHRQ). AHRQ indicates that "the appropriate application of effective preventive measures in hospitals has major potential for improving patient safety by reducing the incidence of venous thromboembolism" (Shojania, 2001).

Despite its proven effectiveness, rates of appropriate thromboprophylaxis remain low in both medical and surgical patients. A recent analysis from the ENDORSE survey, which evaluated prophylaxis rates in 17,084 major surgery patients, found that more than one third of patients at risk for VTE (38%) did not receive prophylaxis and that rates varied by surgery type (Cohen, et al., 2008).

In a review of evidence-based patient safety practices, the Agency for Healthcare Research and Quality defined thromboprophylaxis against VTE as the "number one patient safety practice" for hospitalized patients (Shojania, 2001). Updated "safe practices" published by the National Quality Forum (NQF) recommend routine evaluation of hospitalized patients for risk of VTE and use of appropriate prophylaxis (National Quality Forum. National Voluntary Consensus Standards for Prevention and Care of Venous Thromboembolism, 2006).

As noted by the ACCP, a vast number of randomized clinical trials provide irrefutable evidence that thromboprophylaxis reduces VTE events, and there are studies that have also shown that fatal PE is prevented by thromboprophylaxis (Geerts, et al. 2008).

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Referenced 2018 CMS Hospital Inpatient Measure READM-30-HWR Specifications

Measure Title: 30 Day All Cause Readmission Rate for Discharged Inpatients

#### Inverse Measure: Yes

**Measure Description:** Risk-Standardized Rate of All-cause Readmission to the Discharging Hospital and Hospitalist Physician Group within 30 Days of Initial Hospital Discharge

National Quality Strategy Domain: Patient Safety

Type of Measure: Outcome, High Priority

Meaningful Measure Area: Admissions and Readmissions to Hospitals

**Current Clinical Guideline:** This measure is derived from the CMS hospital inpatient measure READM-30-HWR

#### Clinical Category: Readmissions

**Reporting Measure:** All-cause Readmission to the Discharging Hospital and Hospitalist Physician Group within 30 Days of Initial Hospital Discharge Observed/Expected Ratio

#### Number of Performance Rates: 4

- 1. Readmission Rate for All Discharged Inpatients (Overall Reporting Rate)
- 2. Readmission Rate for Discharged Pneumonia Patients
- 3. Readmission Rate for Discharged CHF Patients
- 4. Readmission Rate for Discharged COPD Patients

#### Measure Scoring: Proportion

**Numerator:** [Note: This outcome measure does not have a traditional numerator and denominator like a core process measure (e.g., percentage of adult patients with diabetes aged 18-75 years receiving one or more hemoglobin A1c tests per year); thus, we use this field to define the measure outcome.]

The Outcome for This Measure Is All-cause Readmission within 30 Days of Hospital Discharge

• Readmission Definition: An Inpatient Admission (E/M Codes 99221-99223, or 99291 AND Place of Service Indicator: 21) to the Hospital and Hospitalist Physician Group Initially Discharging the Patient That Occurs Within 30 days of the Discharge Date of an Earlier Index Admission. All Causes of Readmissions Are Counted as Outcomes.

#### Numerator Exclusions: None

#### Denominator:

- Patients Admitted to Inpatient Status on Index Admission PLUS
- Patients Discharged by the Eligible Professional on Index Admission (E/M Codes 99238-99239 AND Place of Service Indicator: 21)
- Patients who expired, were discharged AMA or transferred to another acute care hospital during initial inpatient admission are excluded

• Patients with any planned readmission are excluded

### Denominator Exclusions: None

#### Risk Adjustment: Yes

#### **Risk Adjustment:**

The purpose of the risk-adjustment is to determine the provider and system level contributions to the outcome after adjusting for patient-level demographic and clinical characteristics. Readmissions are risk-adjusted as a binary outcome.

#### Risk-adjustment derivation:

*Model:* A regression model with fixed-effects (patient age, sex, and presence of comorbidities) and DRG severity weight (CMS geometric mean LOS for the DRG) is used. Normal distribution is ensured and then a logistic regression performed. *Dataset: Datasets:* Five quarters of the Health Care Utilization Project (HCUP) national Readmissions Database (2015Q4 and 2016) are utilized. The co-morbidities are derived by mapping the ICD-9 and ICD-10 diagnoses to the relevant Charlson<sup>1</sup> comorbidity index categories.

Risk-adjustment application:

The results of the risk-adjustment derivation are used as a model with the relative patient level factors and a beta-coefficient weight for each of those factors. The coefficient weights from the risk-adjustment model are applied to the performance data to provide an expected outcome for each patient. For each provider, the observed outcome over the expected outcome is summed to produce an observed/expected ratio.

#### **Rationale:**

(Referenced from 2018 CMS Hospital Inpatient Measure READM-30-HWR Specifications) The hospital-wide all-cause readmission (HWR) measure reports the hospital-level, riskstandardized rate of all-cause unplanned readmission within 30 days of hospital discharge. A hospital's readmission rate is related to complex and critical aspects of care such as communication between providers; prevention of and response to complications; patient safety; and coordinated transitions to the outpatient environment. While the condition-specific measures of readmission are helpful for assessing the quality of care for specific groups of patients, they account for only a small minority of total readmissions (Jencks et al., 2009). By contrast, a hospital-wide, all-condition readmission measure provides a broad sense of the quality of care at hospitals and will reflect the full benefit of hospital-wide efforts to improve care and care transitions.

Given that studies have shown readmissions to be related to quality of care, and that interventions have been able to reduce 30-day readmission rates, it is reasonable to consider an all-condition readmission rate as a quality measure.

Finally, readmission rates are influenced by the quality of inpatient and outpatient care, the availability and use of effective disease management programs, and the bed capacity of the local health care system. Some of the variation in readmissions may be attributable to delivery system characteristics (Fisher et al., 1994). Also, interventions during and after a hospitalization can be effective in reducing readmission rates in geriatric populations generally (Benbassat & Taragin, 2000; Naylor et al., 1999; Coleman et al., 2006). Tracking readmissions also emphasizes improvement in care transitions and care coordination. Although discharge planning is required by Medicare as a condition of participation for hospitals, transitional care

focuses more broadly on "hand-offs" of care from one setting to another, and may have implications for quality and costs (Coleman, 2005).

During the first six years of the Hospital Readmissions Reduction Program, readmissions have gone down as hospitals have implemented improvement strategies. Nevertheless, reductions in readmissions have begun to level off since 2015, suggesting that further improvements by hospitals alone are elusive. Hospital administrators, policymakers, payers, and community organizations must collaborate on innovative ways to reduce hospital readmissions such as providing free nutritious foods, promoting population health literacy, and addressing social isolation. Furthermore, they must work together to redistribute the responsibility for reducing readmissions more fairly and appropriately among all care providers positioned to affect change, and they must retool how the penalties are applied so that providers are rewarded for their breakthroughs and progress (NEJM Catalyst).

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Referenced Society of Post-Acute and Long-Term Care Medicine's Policy D-14: Promotion of Physician's Orders for Life-Sustaining Treatment Paradigm and the Institute of Medicine of the National Academies: Key Recommendations on Addressing End of Life

Measure Title: Physician's Orders for Life-Sustaining Treatment (POLST) Form

## Inverse Measure: No

**Measure Description:** Percentage of Patients Aged 65 Years and Older with Physician's Orders for Life-Sustaining Treatment (POLST) Forms Completed

National Quality Strategy Domain: Communication and Care Coordination

Type of Measure: Process, High Priority

Meaningful Measure Area: End of Life Care According to Preferences

**Current Clinical Guideline**: AMDA (The Society of Post-Acute and Long-Term Care Medicine) and the Institute of Medicine (IOM) of the National Academies support and promote the Physician's Orders for Life-Sustaining Treatment Paradigm

Clinical Category: End of Life Care

# Number of Performance Rates: 1

Measure Scoring: Proportion

**Numerator:** Patients with a completed Physician's Orders for Life-Sustaining Treatment (POLST) form

## Definitions:

- Physician's Orders for Life-Sustaining Treatment (POLST) form is defined as a legally recognized, transportable and actionable medical order – intended for seriously ill patients at high risk for mortality – that remains with the patient whether at home, in the hospital, or in a care facility; the form indicates patient-specified medical treatment preferences and is signed by the authorizing physician, physician assistant (PA), or nurse practitioner (NP)
- The following elements must be present and completed in the Physician's Orders for Life-Sustaining Treatment (POLST) form:
  - Legally recognized decision maker verification
  - Cardiopulmonary Resuscitation (CPR) preferences (e.g., attempt CPR, DNR)
  - Medical Intervention (e.g., full code, comfort measures, limited/selective treatments)
  - Signed by eligible healthcare provider (e.g., physician, PA, or NP)
- NOTE: The approved version and title of the Physician's Orders for Life-Sustaining Treatment (POLST) form may differ slightly from state to state; variations in forms are acceptable as long as the elements listed above are present

Numerator Options

- Performance Met:
  - Existing Physician's Orders for Life-Sustaining Treatment (POLST) form was acknowledged and documented in the medical record <u>OR</u>
  - Physician's Orders for Life-Sustaining Treatment (POLST) form was completed or updated and documented in the medical record <u>OR</u>
  - Documented reason for not acknowledging, completing or updating Physician's Orders for Life-Sustaining Treatment (POLST) form (e.g., patient refuses, patient is unresponsive or does not have capacity to complete, legally recognized decision maker is not present)
- Performance Not Met: Physician's Orders for Life-Sustaining Treatment (POLST) form was not acknowledged, completed or updated, reason not specified

# Numerator Exclusions: None

# **Denominator:**

Adult patients aged ≥ 65 years evaluated by the Eligible Professional (E/M Codes 99221-99223, 99231-99233, 99238-99239, 99291-99292, 99304-99310, 99315, 99316)

# Denominator Exclusions: None

# Risk Adjustment: No

# **Rationale:**

For patients and their family caregivers, control over treatment decisions is a high priority with an illness diagnosed as serious and life-limiting. (Singer et al, 1999) The Physician Orders for Life-Sustaining Treatments (POLST) form is designed to supplement and build upon advanced care planning and advanced directives. Unlike advanced directives, which are often generalized and require intermediaries on the patient's behalf (Bomba et al, 2012), the POLST form allows patients to clearly communicate their wishes regarding medical treatment and ensure that those wishes are honored across the care continuum by codifying their advanced directives as portable medical orders. Clinicians are able to focus on treatments desired by patients and avoid treatments that are unwanted by patients. These legally recognized, HIPAA-compliant forms follow the patients wherever they go (e.g., home, skilled nursing facility, acute care facility), and are intended to be completed for patients who are seriously ill and unlikely to recover (Moss et al., 2008). The POLST form includes key preferences (e.g., DNR status) that can be missed during patient transfers between facilities. The use of the POLST form prevents unwanted hospitalizations, readmissions and invasive medical procedures for patients who are near death. (Lee et al, 2000) AMDA (The Society of Post-Acute and Long-Term Care Medicine) and the Institute of Medicine (IOM) of the National Academies support and promote the Physician's Orders for Life-Sustaining Treatment Paradigm.

In a recent study, POLST completion was 49% in CA nursing home residents, identifying potential opportunity for quality improvement (Jennings).

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Referenced National Pressure Ulcer Advisory Panel's 2014 Prevention and Treatment of Pressure Ulcers: Clinical Practice Guidelines

Measure Title: Pressure Ulcers – Risk Assessment and Plan of Care

#### Inverse Measure: No

**Measure Description:** Percentage of Adult Post-acute Facility Patients That Had a Risk Assessment for Pressure Ulcers and a Plan of Care for Pressure Ulcer Prevention/Treatment Completed

National Quality Strategy Domain: Patient Safety

Type of Measure: Process, High Priority

Meaningful Measure Area: Preventable Healthcare Harm

**Current Clinical Guideline**: This measure aims to reduce the incidence of pressure ulcers which are included in the AHRQ PSI-90; it also supports the National Pressure Ulcer Advisory Panel's Prevention and Treatment of Pressure Ulcers Clinical Practice Guidelines

Clinical Category: Pressure Ulcers

Number of Performance Rates: 1

Measure Scoring: Proportion

**Numerator:** Adult Post-acute Facility Patients that Had a Risk Assessment for Pressure Ulcers and a Plan of Care for Pressure Ulcer Prevention OR Treatment Documented

## **Definitions**

- Pressure ulcer: Localized damage to the skin and/or underlying soft tissue usually over a bony prominence or related to a medical or other device. The injury can present as intact skin or an open ulcer and may be painful. The injury occurs as a result of intense and/or prolonged pressure or pressure in combination with shear.
- Risk assessment:
  - Nationally recognized scale (e.g., Braden Scale or Braden Q Scale)
  - o Nutrition
  - o Activity and Mobility Limitations
  - History of skin breakdown
  - o **Cognition**
- Plan of care Prevention:
  - o Scheduled skin integrity assessments
  - Minimize friction and shear
  - Minimize pressure with off-loading
  - Manage moisture
  - Maintain adequate nutrition and hydration
- Plan of care Treatment:
  - o Scheduled wound description/staging

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- Etiology of pressure (e.g., dementia, diapering)
- Body repositioning
- Nutritional status
- Bacterial colonization/infection
- Wound management (e.g., wound dressings, barrier creams, medicated creams, antibiotics, gauze)

## Numerator Options

- Performance Met: Patients who did have pressure ulcer risk assessment AND a plan of care for pressure ulcer prevention or treatment documented
- Performance Not Met: Patients who did not have pressure ulcer risk assessment AND a plan of care for pressure ulcer prevention or treatment documented

# Numerator Exclusions: None

# **Denominator:**

• Adult patients aged ≥ 18 years evaluated by the Eligible Professional in the Post-acute Facility (E/M Codes 99304-99310, 99315, 99316)

# Denominator Exclusions: None

# Risk Adjustment: No

# Rationale:

Pressure ulcers have been associated with an extended length of hospitalization, sepsis and mortality. About 60,000 United States patients are estimated to die yearly from hospital-acquired pressure ulcers and their complications. (Sullivan, 2013) Pressure ulcers cause deep muscle and tissue damage that can require lengthy recovery times, depending on various risk factors, including age, blood pressure, body temperature, and protein intake. Pressure ulcers are also associated with fatal septic infections. (Redelings et al., 2005; Brem et al., 2010; Lyder, 2003) In addition, the risk of pressure ulcer development increases among older patients and among patients with cardiovascular and endocrine diseases. The total cost for treatment of pressure ulcers in the United States is estimated at \$11 billion per year (Ackroyd-Stolarz, 2011), with an approximate financial impact of \$18.8 million of Medicare program payments annually. (Kandilov et al., 2014) In post-acute care facilities, pressure ulcers can cost Medicare as much as \$15,000 in treatments (Kandilov et al., 2014) and can range between \$500 to \$40,000 per pressure ulcer treated. (Lyder, 2003)

The care provided by clinicians, which includes implementation of an effective risk assessment and a plan of care for prevention of pressure ulcers or active treatment for patients with developing pressure ulcers, is critical to improving patient outcomes (Siem et al, 2003) and saving costs through comprehensive prevention efforts (Tippett, 2009). The National Pressure Ulcer Advisory Panel's recommendations state that clinicians are responsible for the following: reviewing risk factors and identifying potential causes for development of pressure ulcers; implementing focused interventions to reduce, stabilize, and remove risk factors; and implementing targeted pressure injury management protocols as needed (NPUAP Quality of Care Regulations).

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Referenced NQF 0689: Percent of Residents Who Lose Too Much Weight

Measure Title: Unintentional Weight Loss - Risk Assessment and Plan of Care

#### Inverse Measure: No

**Measure Description:** Percentage of Adult Post-acute Facility Patients that Had a Risk Assessment for Unintentional Weight Loss and a Plan of Care for Unintentional Weight Loss Documented by Provider

#### National Quality Strategy Domain: Patient Safety

Type of Measure: Process, High Priority

#### Meaningful Measure Area: Preventive Care

**Current Clinical Guideline**: This measure is derived from NQF 0689: Percent of Residents Who Lose Too Much Weight

Clinical Category: Weight Loss

#### Number of Performance Rates: 1

Measure Scoring: Proportion

**Numerator:** Adult Post-acute Facility Patients that Had a Risk Assessment for Unintentional Weight Loss, Reason for Weight Loss (If Applicable) and a Plan of Care for Unintentional Weight Loss Documented

#### **Definitions**

- Weight loss episode: A loss of weight equal to or greater than 5% within a 30-day period or 10% within a 180-day period
  - Starting with the patient's weight closest to 30 days ago, the patient's current weight is equal to or less than 95%. Starting with the patient's weight closest to 180 days ago, the patient's current weight is equal to or less than 90%
- Risk Assessment:
  - Nationally recognized tool [e.g., Minimum Data Set (MDS) Swallowing/Nutritional Status, Mini Nutritional Assessment (MNA), Malnutrition Screening] Tool (MST)] which includes the following:
    - Weight
    - Height
    - Body Mass Index (BMI)
    - Recent Weight loss
    - Recent Intake (e.g. reduced intake, nutritional approach)
    - Swallowing Disorder
    - Severity of Disease
- Plan Of Care:

- Oral nutrition support (e.g., therapeutic diet, mechanically altered diet, condition specific diet, fortified foods, and/or supplements)
- o Parenteral feeding
- o Enteral feeding tube
- Patient-centered and/or condition-specific considerations (e.g., prescription of orexigenic alternatives to anorectic drugs, hydration and edema status, increased nutritional needs for patients at high risk of pressure ulcers, patient preferences and availability of choices for foods and fluids, feeding assistance by staff to enhance the resident's self-feeding ability, social stimulation throughout meal or snack period)

#### Numerator Options

- Performance Met: Patients who did have a risk assessment for unintentional weight loss, reason for weight loss (if applicable) AND a plan of care for unintentional weight loss documented
- Performance Not Met: Patients who did <u>not</u> have a risk assessment for unintentional weight loss, reason for weight loss (if applicable) AND a plan of care for unintentional weight loss documented

#### Numerator Exclusions: None

#### **Denominator:**

• Adult patients aged ≥ 18 years evaluated by the Eligible Professional in the Post-acute Facility (E/M Codes 99304-99310, 99315, 99316)

### Denominator Exclusions: None

## Risk Adjustment: No

**Rationale:** Unintended and excessive weight loss is a significant problem among nursing home residents. CMS Nursing Home Compare reports that 7% of nursing home residents experience excessive weight loss nationally, and other studies report rates of up to 20% or 33% (Bell et al, 2016, Gaddey & Holder, 2014). Weight loss of 5% or more in one month or 10% or more over six months is considered unhealthy (Thomas et al., 2000), and studies have found an association between weight loss and increased morbidity and mortality (Sullivan et al., 2002; Stack et al., 2013; Keller et al., 2015).

Nutritional issues have been identified as a priority area for practice change and research in long-term care (Keller et al., 2015; Morley et al., 2014; Rolland et al., 2011). In long-term care, the primary cause of malnutrition is poor food and fluid intake (Keller et al., 2014, Bell et al., 2013). Nursing home residents often have chronic diseases and functional impairments that may impair proper nutrition and hydration (Morley, 2007; Sloane et al., 2008; Bourdel-Marchasson, 2010) and require medical interventions (Morley, 2007). Various chronic illnesses are associated with malnutrition, including cancer, diabetes, depression, and chronic obstructive pulmonary disease (COPD) (Huffman, 2002). Medications, oral health problems (such as missing teeth), dysphagia, and dementia can complicate nutrition and hydration. Medications may cause nausea, anxiety, constipation, and lack of appetite. Depression has been identified as the "most common reversible illness" associated with malnutrition (Sloane et al., 2008). Dehydration is a major factor in weight loss in about 10% of nursing home residents (Kaldy et al., 2000; Feinsod et al., 2004; Smith, 2006). A review study demonstrated that weight

loss is the most objective and reproducible marker of nutritious status for nursing home residents (Bell et al., 2013).

Elderly individuals with excessive and rapid weight loss are at higher risk for readmissions, extended stays (Stratton 2006), functional decline, hip fracture (Langlois et al., 2001; Ensrud et al., 2003) and mortality (Covinsky et al., 1999; Kiely & Flacker, 2000; Sullivan et al., 2002; Wedick et al., 2002; Keller & Ostbye, 2005; Amador et al., 2006; Stack et al., 2013). Detecting and preventing weight loss is central to ensure appropriate nutritional intake.

Care processes have been found to influence the nutritional intake and risk of weight loss for the elderly (Simmons et al., 2001; Altus, Engelman, & Matthews, 2002; Pelletier, 2004; Milne et al., 2009; Simmons et al., 2003). Nutrition and dining programs may potentially reduce the risk of weight loss for nursing home residents. For example, a Cochrane meta-analysis found that supplementation produces small but consistent weight gain in older people (Milne et al., 2009). Appropriate management of clinical conditions for people at higher risk for weight loss (e.g., those with depression) is also a potentially effective way to prevent unintended weight loss (Malone, 2005; Rigler et al., 2001).

Several national guidelines from organizations such as the American Dietetic Association, the Gerontological Society of America, the Council for Nutritional Strategies in Long-Term Care (Thomas 2000), the American Medical Directors Association, the National Institute for Health Care and Excellence (NICE 2006), the American Academy of Nutrition and Dietetics (White 2012), and the American Society of Parenteral and Enteral Nutrition (ASPEN) (Mueller 2011, White 2012), recommend nutritional risk assessments for unintentional weight loss and documented plans of care for inpatients, outpatients, skilled nursing and long-term care patients.

Several national risk assessment instruments have also been validated and endorsed by national organizations. The <u>Minimum Data Set (MDS 3.0) Nursing Home Comprehensive Item</u> <u>Set Chapter K: Swallowing/Nutrition Status</u> is required by the Centers for Medicare and Medicaid Services (CMS) for all skilled nursing facility prospective payment system patients to assess both swallowing and nutritional status as well as a care plan. <u>The Mini Nutritional Assessment (MNA)</u>, both the full assessment and the short form (SF) classifies older people as well-nourished, at risk for malnutrition or malnourished. The <u>Alliance to Advance Patient</u> <u>Nutrition</u> has developed the <u>Malnutrition Screening Tool (MST)</u> and an entire toolkit of resources for physicians, nurses and patients to improve patient's nutritional status. Both risk assessment and care planning involves establishing a course of action with input from the clinician, nursing, dieticians, and the resident (as well as resident's family and/or guardian or other legally authorized representative) to improve their nutritional status.

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# H-CPR (Hospitalist – Clinical Performance Registry) Measure #20

**Measure Title:** Clostridium Difficile – Risk Assessment and Plan of Care

Inverse Measure: No

**Measure Description:** Percentage of Adult Patients Who Had a Risk Assessment for C. difficile Infection and, If High-Risk, Had a Plan of Care for C. difficile Completed on the Day Of or Day After Hospital Admission

National Quality Strategy Domain: Healthcare-associated Infections

Type of Measure: Process, High Priority

Meaningful Measure Area: Preventable Healthcare Harm

**Current Clinical Guideline**: This preventive screening is supported by the CDC, IDSA, SHEA, AHA, and Joint Commission.

Clinical Category: C. Diff

Number of Performance Rates: 1

Measure Scoring: Proportion

**Numerator:** Patients that had a risk assessment for C. difficile infection and, if high-risk, a plan of care documented on the day of or day after hospital admission

## Definitions:

- Risk assessment (e.g., IDSA score, SHEA score, ZAR criteria):
  - Previous C. difficile infection
  - Recent antibiotic use (60-90 days prior to current admission)
  - Recent contact with healthcare facility (60-90 days prior to current admission)
  - Age ≥ 65
  - Recent use of proton pump inhibitor (PPI) or histamine receptor 2 antagonists (H2RA)
  - o Diagnosis and procedure history (e.g., IBD, immunosuppression or hemodialysis)
- Plan of Care
  - Contact precautions if diarrhea is present
  - o Stool assay
  - o Initiation of antibiotics if indicated

Numerator Options:

• Performance Met: Patients who did have a C. difficile infection risk assessment, AND if

high-risk, a plan of care for C. difficile documented on the day of or day after hospital admission

- Medical Performance Exclusion (Denominator Exception): Patients who did <u>not</u> have a C. difficile infection risk assessment, AND if high risk, a plan of care for C. difficile for medical reasons documented by the Eligible Professional (e.g., C. difficile infection already documented prior to hospital admission, patients unable to provide history, patients on comfort measures)
- Performance Not Met: Patients who did <u>not</u> have a C. difficile infection risk assessment, AND if high risk, a plan of care for C. difficile documented on the day of or day after hospital admission, no reason specified

## **Denominator:**

- Any patient ≥ 18 years of age evaluated by the Eligible Professional (E/M Codes 99221-99223, 99231- 99233, & 99291-99292 AND Place of Service Indicator: 21)
- Transferred, eloped or AMA patients are excluded

## Denominator Exclusions: None

## Risk Adjustment: No

#### Rationale:

*Clostridium difficile* is recognized as one of the most challenging pathogens in hospital and community healthcare settings, with a steadily rising global incidence of infection and concordant increase in mortality. (Tavetin 2013, LoVechio 2012) The Centers for Disease Control and Prevention (CDC) has assigned *C. difficile* infections (CDI) as an urgent threat because of its association with antibiotic use and high mortality and morbidity. (CDC 2013) Approximately 83,000 of the half a million patients who developed C. difficile in 2011 experienced at least one recurrence, and 29,000 died within 30 days of the initial diagnosis (CDC 2013). Hospitalized CDI patients have a 2.5 times increased 30-day mortality rate compared to in-patients without diarrhea; the CDI-related mortality is approximately 10%. (CDC 2013)

C. difficile infections can be prevented by using infection control recommendations and more careful antibiotic use. Numerous guidelines from the Centers for Disease Control and Prevention (CDC), the Infectious Diseases Society of America (IDSA), the Society for Healthcare Epidemiology of America (SHEA), the American Hospital Association (AHA), European Society of Clinical Microbiology and Infectious Diseases (ESCMID), and the Joint Commission recommend risk assessment of hospitalized patients to guide prevention and treatment. (Dubberke 2014, Cohen 2010, Bauer 2009). Multiple risk assessment tools have been developed (Cohen 2010, Tabak 2015, Kuntz 2016, Smith 2014) and different hospitals implement these assessments according to local protocols. Key risk factors identified in these assessment tools include previous CDI, recent contact with a healthcare facility, recent antibiotic use, immune status, and stomach acid reducing medications.

In the United States, the proportion of hospital discharges in which a patient received a discharge diagnosis for CDI more than doubled between 2000 and 2009. (Lucado 2012) Approximately 96% of patients with symptomatic C. difficile infection had received antimicrobials within the 14 days before the onset of diarrhea and that all had received an antimicrobial within the previous 3 months. (Olson 1994) There is an increased risk of CDI that can persist for many weeks after cessation of antimicrobial therapy and which results from

prolonged perturbation of the normal intestinal flora. (Anand 1994) Evidence also suggests that CDI resulting from exposure to C. difficile in a healthcare facility can have onset after discharge. (Palmore 2005, Chang 2006, Mayfield 2006). Advanced age is also an important risk factor for CDI, as evidenced by the several fold higher age-adjusted rate of CDI among persons more than 64 years of age. (McDonald 2006, Pepin 2004). Immunosuppression (chemotherapy, HIV, etc) is another risk factor for CDI. (Bilgrami 1999, Gorshulter 2001, Sanchez 2005) Epidemiologic associations with CDI have also been found for acid-suppressing medications such as histamine-2 blockers (HR2A) and proton pump inhibitors (PPI). (Dial 2005, Cunningham 2003, Dial 2004).

The CDC, IDSA, and SHEA currently recommend placing patients with diarrhea under contact precautions while C. difficile testing is pending. To decrease transmission, it is essential to place symptomatic patients under contact precautions as soon as diarrhea symptoms are recognized, as this is the period of greatest C. difficile shedding and Contamination (Sethi 2010, Dubberke 2014) Contact precautions should remain in place for the duration of CDI illness when caring for patients with CDI, and some experts recommend continuing contact precautions for at least 48 hours after diarrhea resolves. (Sethi 2010). Assuring that patients with CDI are receiving appropriate severity-based treatment for their infection should be an additional goal for antimicrobial stewardship programs and may improve clinical outcome of CDI in these patients. (Dubberke 2014).

Despite recent CDI infection and control efforts, CDI remains at historically high rates. (Dubberke 2014) The CDC's 2015 Annual Report for the Emerging Infections Program for *Clostridium difficile Infection* reported the incidence of healthcare associated CDI to be 82 per 100,000, community acquired to be 65 per 100,000, and the overall incidence rate to be 148 per 100,000. (CDC 2015) Multiple states have reported increased rates of C. difficile infection and mortality, noting more severe disease that is more virulent, and more resistant to traditional antibiotics for treatment. (CDC 2017 Fact Sheet)

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Measure Title: Critical Care Transfer of Care – Use of Verbal Checklist or Protocol

Inverse Measure: No

**Measure Description:** Percentage of Adult Patients Transferred from the Critical Care Service to a Non-critical Care Service Who Had Documented Use of a Verbal Protocol for the Transfer of Care Between the Transferring Clinician and the Accepting Clinician

National Quality Strategy Domain: Communication and Care Coordination

Type of Measure: Process, High Priority

Meaningful Measure Area: Transfer of Health Information and Interoperability

**Current Clinical Guideline**: The Joint Commission and AHRQ have identified improved patient hand-offs as a national patient safety goal

Clinical Category: Care Coordination

Number of Performance Rates: 1

Measure Scoring: Proportion

**Numerator:** Patients transferred from the critical care service to a non-critical care service for whom a verbal (in person or telephonic) checklist or protocol which includes the key transfer of care elements was utilized

## Definitions:

- Transfer of Care Checklist or Protocol The key transfer of care elements include:
  - Review of the overall ICU hospital course
  - Results of pertinent labs and imaging studies
  - Pending studies such as imaging and labs not yet resulted for follow-up by the accepting clinician

Numerator Options:

- Performance Met: Patients who did have utilization of a verbal (in person or telephonic) checklist or protocol documented
- Performance Not Met: Patients who did <u>not</u> have utilization of a verbal (in person or telephonic) checklist or protocol documented

# Denominator:

• Any patient ≥ 18 years of age evaluated by the Eligible Professional (E/M Codes 99221-

99223, 99231- 99233, & 99291- 99292 AND Place of Service Indicator: 21) PLUS

- Patients transferred from critical care service to non-critical care service
- Patients discharged from the hospital directly from critical care service are excluded
- Transferred, eloped or AMA patients are excluded

# Denominator Exclusions: None

## Risk Adjustment: No

# Rationale:

Hospital handoffs are believed to be a key locus of communication breakdown that can endanger patient safety and undermine quality of care. (Cohen 2012) The Joint Commission has identified improving hand-offs as a national patient safety goal, citing problems with communication as a frequent cause of medical errors. (TJC 2007) Similarly, the Agency on Healthcare Research and Quality (AHRQ) has identified improving handoffs in care as a priority in nationwide efforts to improve patient safety. (AHRQ 2016). Transfers from intensive care units to acute care units represent a complex care transition for hospitalized patients. (Halvorson 2016)

The Society for Critical Care Medicine recommends that a standardized process for discharge from the Intensive Care Unit (ICU) be used and that both oral and written formats for the report may reduce readmission rates. (Nates 2016) At an urban teaching hospital, institution of a discharge process that included a transfer phone call, charted care summary, and discharge physical re-examination by the discharging provider resulted in a decrease in readmission rate from 41% to 10%. Of those readmitted cases, 30% were found to be noncompliant with the new processes. (Frankel 2006) In another study, the institution of ICU discharge phone reports by the ICU physician or nurse practitioner, nurse, and respiratory therapist also resulted in a significant decrease in readmissions. (Hess 2010)

Several tools for patient hand-off have been studied. (Arora 2005, Bump 2012, Wheat 2012) Effective interventions include improved communication and coordination of care to facilitate timely, complete and accurate handover information. Effective interventions result in improved continuity of care and in reduced adverse events. (van Sluisveld 2015, Cohen 2012) While the primary objective of a handoff is to provide accurate information to the accepting clinician about a patient's care, treatment, current condition and any recent or anticipated changes, a standardized approach to hand-off communications that includes an opportunity to ask and respond to questions is valuable. (Arora 2006, TJC 2007)

There is mounting evidence that communication and hand-off failures are a root cause of twothirds of sentinel events in hospitals. (Fryman 2017)

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# E-CPR (Emergency – Clinical Performance Registry) Measure #51

Measure Title: Discharge Prescription of Naloxone after Opioid Poisoning or Overdose

#### Inverse Measure: No

**Measure Description:** Percentage of Opioid Poisoning or Overdose Patients Presenting to An Acute Care Facility Who Were Prescribed Naloxone at Discharge

National Quality Strategy Domain: Effective Clinical Care

Type of Measure: Process, High Priority

Meaningful Measure Area: Prevention and Treatment of Opioid and Substance Use Disorders

**Current Clinical Guideline:** Numerous organizations, including the American Medical Association and American Society of Addiction Medicine, recommend increased access to Naloxone for patients who are at high risk to reverse the effects and reduce the chance of death in the event of an opioid overdose, which includes expanded prescribing practices by clinicians

#### Clinical Category: Opioids

#### Number of Performance Rates: 1

#### Measure Scoring: Proportion

**Numerator:** Patients Who Were Prescribed Naloxone AND Educated About Utilization at Discharge

- Performance Met: Naloxone was prescribed at discharge AND patient was educated about use
- Medical Performance Exclusion (Denominator Exception): Naloxone was not prescribed at discharge due to medical reasons such as allergy
- Performance Not Met: Naloxone medication was <u>not</u> prescribed at discharge OR patient was <u>not</u> educated about use

#### Numerator Exclusions: None

#### Denominator:

- Any patient evaluated by the Eligible Professional (E/M Codes 99217, 99234-99236, 99238-99239, 99281-99285, 99291-99292) PLUS
- Diagnosis of opioid poisoning from heroin, methadone, morphine, opium, codeine, hydrocodone, or another opioid substance
  - ICD-10: T40.0X1A, T40.0X1D, T40.0X1S, T40.0X2A, T40.0X2D, T40.0X2S, T40.0X3A, T40.0X3D, T40.0X3S, T40.0X4A, T40.0X4D, T40.0X4S, T40.1X1A, T40.1X1D, T40.1X1S, T40.1X2A, T40.1X2D, T40.1X2S, T40.1X3A, T40.1X3D, T40.1X3S, T40.1X4A, T40.1X4D, T40.1X4S, T40.2X1A, T40.2X1D, T40.2X1S, T40.2X2A, T40.2X2D, T40.2X2S, T40.2X3A, T40.2X3D, T40.2X3S, T40.2X4A, T40.2X4D, T40.2X4S, T40.3X1A, T40.3X1D, T40.3X1S, T40.3X2A, T40.3X2D,

T40.3X2S, T40.3X3A, T40.3X3D, T40.3X3S, T40.3X4A, T40.3X4D, T40.3X4S, T40.4X1A, T40.4X1D, T40.4X1S, T40.4X2A, T40.4X2D, T40.4X2S, T40.4X3A, T40.4X3D, T40.4X3S, T40.4X4A, T40.4X4D, T40.4X4S, T40.601A, T40.601D, T40.601S, T40.602A, T40.602D, T40.602S, T40.603A, T40.603D, T40.603S, T40.604A, T40.604D, T40.604S, T40.691A, T40.691D, T40.691S, T40.692A, T40.692D, T40.692S, T40.693A, T40.693D, T40.693S, T40.694A, T40.694D, T40.694S

- 0
- Transferred, eloped or AMA patients are excluded

#### Denominator Exclusions: None

#### Risk Adjustment: No

#### Rationale:

The opioid epidemic in the United States claims hundreds of lives every day. One of medicine's best tools against this epidemic is Naloxone. Naloxone has proven to be the most effective method for reversing an opioid overdose in patients of all characteristics and has been shown to greatly reduce the chance of fatality. Naloxone is a non-selective, short-acting opioid receptor antagonist used to treat opioid induced respiratory depression. It is safe, has no addictive potential, and has mild side effects. The use of naloxone has been consistently recommended and promoted by numerous health organizations including the American Medical Association. Increasing the availability of Naloxone among the public, law enforcement, and community organizations is advocated by many organizations including the American Society of Addiction Medicine and is a priority of numerous states and federal health agencies. Despite these recommendations, a survey of opioid-related policies in New England emergency departments found that only 12% of departments would prescribe naloxone for patients at risk of opioid overdose after discharge. Promoting the prescription of Naloxone for patients discharged after an opioid overdose will ensure that the chance of fatality across all patient populations is significantly reduced.

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