







# **Expert to Expert Webinar Series**

2025 New Measure Review Webinar for Hospital Harm – Pressure Injury (HH-PI) (CMS826v2)







### Webinar Audio and Functionality

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### New to eCQMs?

Today's content is highly technical and requires a baseline understanding of eCQM logic and concepts

Visit this section of the eCQI Resource Center:

"Get Started with eCQMs"

(https://ecqi.healthit.gov/ecqms?qt-tabs\_ecqm=toolsresources)

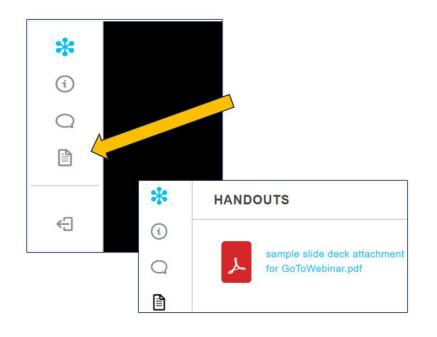








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# Webinar approved for 1 Continuing Education (CE) Credit for these entities



- Accreditation Council for Continuing Medical Education (PRA Category 1 credit)
- American Nurses Credentialing Center
- American College of Healthcare Executives (1 Qualifying Education Hour)
- California Board of Registered Nursing





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- 1) Individually register for this webinar
- 2) Participate for the entire broadcast
- 3) Complete a post-program **evaluation**/ attestation

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- 2) Link within participant follow-up email



Complete CE survey and **SUBMIT**. Certificate will appear onscreen. Print or download PDF Certificate. Complete certificate by adding your name and credentials.







### **Learning Objectives**

Locate measure specifications, value sets, measure flow diagrams and technical release notes on the eCQI Resource Center.

Facilitate your organization's implementation of the Hospital Harm – Pressure Injury eCQM for the 2025 calendar year.

Utilize answers regarding common issues/questions for the Hospital Harm - Pressure Injury eCQM to inform 2025 use/implementation.









### **Topics Not Covered in this Program**

Basic eCQM concepts

Topics related to chart abstracted measures

Process improvement efforts related to this measure

eCQM validation









### **Disclosure Statement**

All staff and speakers for this webinar have disclosed that they do not have any conflicts of interest. For example, financial arrangements, affiliations with, or ownership of organizations that provide grants, consultancies, honoraria, travel, or other benefits that would impact the presentation of today's webinar content.

- Susan Funk, MPH, LSSGB, Associate Project Director, Engagement on Quality Improvement Programs (EQIP)
- Moriah Bauman, MBA, MPH, Advisory Services Analyst
- Melissa Breth, DNP, RN, NI-BC, Associate Project Director, Clinical Quality **Informatics**
- Raquel Belarmino, MSN, RN, Associate Project Director, Clinical Quality **Informatics**







### Webinar Agenda

Highlight how to access eCQI Resource Center navigational demo (measure specifications, value sets, measure flow diagrams and technical release notes)



- Review the new Hospital Harm Pressure Injury eCQM
- Review the measure flow/algorithm
- Review FAQs
- Facilitated Audience Q&A Segment





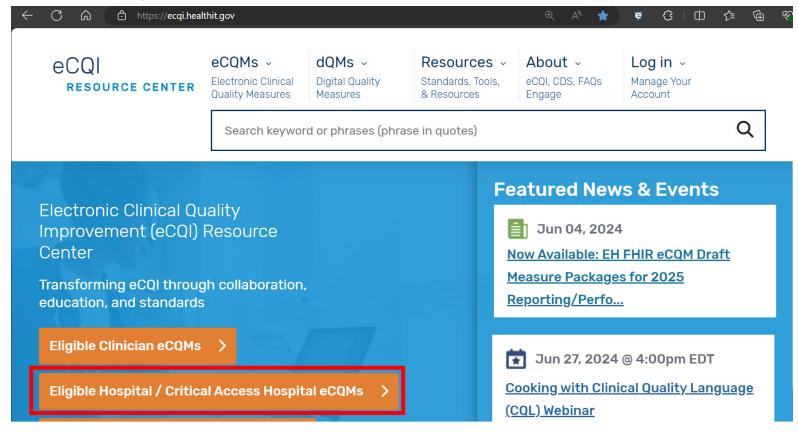
# eCQM Resources on the eCQI Resource Center







#### eCQI Resource Center https://ecqi.healthit.gov



#### **Download and/or View Specifications**

- "Human Readable" html
- Value Sets
  - Value Set Authority Center (VSAC)
- **Data Elements**
- eCQM Flow (PDF)
  - (process flow diagrams)
- Technical Release Notes (TRNs) (Excel)
- Jira Issue Tracker tickets

For more details, view the video short here:

https://www.jointcommission.org/measurement/quality-measurement-webinars-and-videos/ expert-to-expert-webinars/



# Hospital Harm – Pressure Injury (HH-PI) (CMS826v2)







## HH-PI – Adopted into CMS Program

- CMS finalized adoption of HH-PI measure for Hospital Inpatient Quality Reporting and Promoting Interoperability programs through FY 24 Inpatient Prospective Payment System final rule
- Reporting of measure begins with the CY 2025 reporting period/FY 2027 payment determination







## HH-PI – Background

**Measure Description:** The measure assesses the number of inpatient hospitalizations for patients aged 18 and older who suffer the harm of developing a new stage 2, stage 3, stage 4, deep tissue, or unstageable pressure injury

#### Rationale and Intent:

- Hospital-acquired pressure injuries are serious events and one of the most common patient harms
- The risk of developing a pressure injury can be reduced through best practices
- Between 24 to 72 hours can lapse between the precipitating pressure event and the presentation of a pressure injury
- Measuring patients who develop new pressure injuries while in the hospital setting will allow hospitals to more reliably assess harm reduction efforts and modify their improvement efforts in near real-time









## 2024 Program Candidate Year vs. 2025 Reporting Year (1)

Measure Components	2024 Program Candidate Year	2025 Reporting Year
CBE Number	Not Applicable	Not Applicable 3498e
Description	The proportion of inpatient hospitalizations for patients aged 18 and older who suffer the harm of developing a new stage 2, stage 3, stage 4, deep tissue, or unstageable pressure injury	The proportion measure assesses the number of inpatient hospitalizations for patients aged 18 and older who suffer the harm of developing a new stage 2, stage 3, stage 4, deep tissue, or unstageable pressure injury
Improvement Notation	A lower proportion indicates better quality	A lower proportion measure score indicates better higher quality
Initial Population	Inpatient hospitalizations for patients aged 18 and older	No change
Denominator	Initial population	No change









### 2024 Program Candidate Year vs. 2025 Reporting Year (2)

Measure Components	2024 Program Candidate Year	2025 Reporting Year
Denominator Exclusions	Inpatient hospitalizations for patients with a deep tissue pressure injury (DTPI) or stage 2, 3, 4 or unstageable pressure injury diagnosis present on admission, i.e., the diagnosis of pressure injury has a Present on Admission indicator = Y yes (Diagnosis was present at time of inpatient admission) or W (clinically undetermined)	Inpatient hospitalizations for patients with a DTPI or stage 2, 3, 4 or unstageable pressure injury diagnosis present on admission, i.e., the diagnosis of pressure injury has a Present on Admission indicator = Y yes (Diagnosis was present at time of inpatient admission) or W (clinically undetermined).  Inpatient hospitalizations for patients with a DTPI
	Inpatient hospitalizations for patients with a DTPI found on exam within 72 hours after the start of the encounter	found on exam within 72 hours or less after the start of the encounter.
	Inpatient hospitalizations for patients with a stage 2, 3, 4, or unstageable pressure injury found on exam within 24 hours after the start of the encounter	Inpatient hospitalizations for patients with a stage 2, 3, 4, or unstageable pressure injury found on exam within 24 hours or less after the start of the encounter.
	Inpatient hospitalizations for patients with diagnosis of a COVID-19 infection during the encounter	Inpatient hospitalizations for patients with diagnosis of a COVID-19 infection during the encounter.







### 2024 Program Candidate Year vs. 2025 Reporting Year (3)

Measure Components	2024 Program Candidate Year	2025 Reporting Year
Numerator	<ul> <li>Inpatient hospitalizations for patients with a new deep tissue pressure injury (DTPI) or stage 2, 3, 4, or unstageable pressure injury, as evidenced by any of the following:</li> <li>A diagnosis of DTPI with the DTPI not present on admission, i.e., the diagnosis of DTPI has a Present on Admission indicator = N no (Diagnosis was not present at time of inpatient admission) or U (documentation insufficient to determine if the condition was present at the time of inpatient admission)</li> <li>A diagnosis of stage 2, 3, 4 or unstageable pressure injury with the pressure injury diagnosis not present on admission, i.e., the diagnosis of pressure injury has a Present on Admission indicator = N no (Diagnosis was not present at time of inpatient admission) or U (documentation insufficient to determine if the condition was present at the time of inpatient admission)</li> <li>A DTPI found on exam greater than 72 hours after the start of the encounter</li> <li>A stage 2, 3, 4 or unstageable pressure injury found on exam greater than 24 hours after the start of the encounter</li> </ul>	<ul> <li>Inpatient hospitalizations for patients with a new deep tissue pressure injury (DTPI) or stage 2, 3, 4, or unstageable pressure injury, as evidenced by any of the following:</li> <li>A diagnosis of DTPI with the DTPI not present on admission, i.e., the diagnosis of DTPI has a Present on Admission indicator = N ne (Diagnosis was not present at time of inpatient admission) or U (documentation insufficient to determine if the condition was present at the time of inpatient admission).</li> <li>A diagnosis of stage 2, 3, 4 or unstageable pressure injury with the pressure injury diagnosis not present on admission, i.e., the diagnosis of pressure injury has a Present on Admission indicator = N ne (Diagnosis was not present at time of inpatient admission) or U (documentation insufficient to determine if the condition was present at the time of inpatient admission).</li> <li>A DTPI found on exam greater than 72 hours after the start of the encounter.</li> <li>A stage 2, 3, 4 or unstageable pressure injury found on exam greater than 24 hours after the start of the encounter.</li> </ul>







# Hospital Harm – Pressure Injury (HH-PI) (CMS826v2)

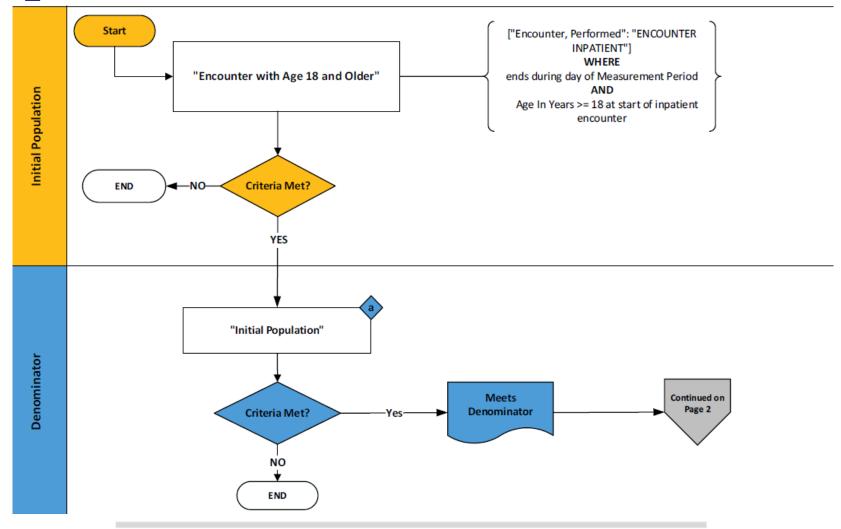
Measure Flow







## **Initial Population and Denominator**

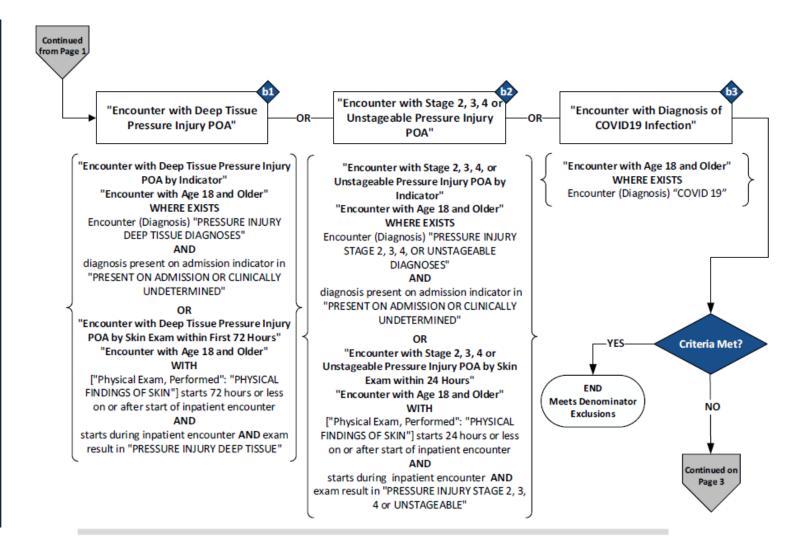








### **Denominator Exclusions**

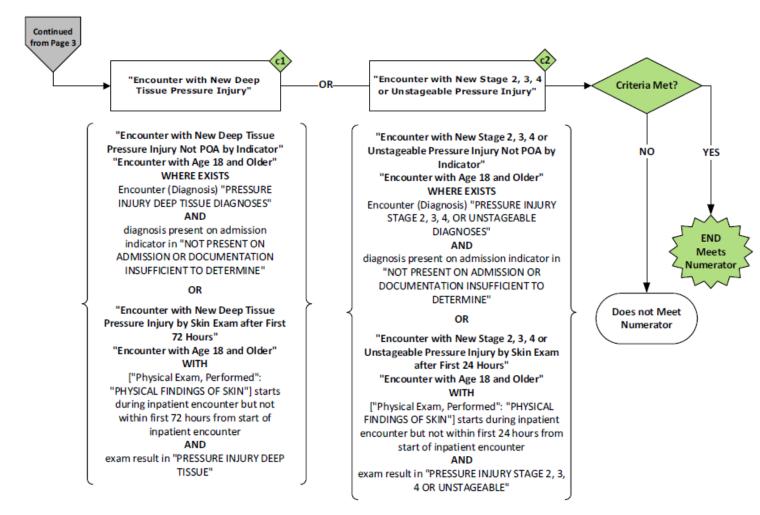






### Numerator











### Sample calculation

#### Sample Calculation







# Hospital Harm – Pressure Injury (HH-PI) (CMS826v2)

Logic Detail







### **HH-PI Initial Population**

Inpatient hospitalizations for patients aged 18 and older

Initial Population: "Encounter with Age 18 and Older"

#### **Encounter with Age 18 and Older**

["Encounter, Performed": "Encounter Inpatient"] InpatientEncounter where InpatientEncounter.relevantPeriod ends during day of "Measurement Period" and AgeInYearsAt(date from start of InpatientEncounter.relevantPeriod) >= 18







### **HH-PI Denominator**

Inpatient hospitalizations for patients aged 18 and older

Denominator: "Initial Population"







### **HH-PI Denominator Exclusions (1)**

Inpatient hospitalizations for patients with a DTPI or stage 2, 3, 4 or unstageable pressure injury diagnosis present on admission, i.e., the diagnosis of pressure injury has a Present on Admission indicator = Y yes (Diagnosis was present at time of inpatient admission) or W (clinically undetermined).

Inpatient hospitalizations for patients with a DTPI found on exam 72 hours or less after the start of the encounter.

Inpatient hospitalizations for patients with a stage 2, 3, 4, or unstageable pressure injury found on exam 24 hours or less after the start of the encounter

Inpatient hospitalizations for patients with diagnosis of a COVID-19 infection during the encounter.

**Denominator Exclusions: "Encounter with Deep Tissue Pressure Injury POA"** union "Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA" union "Encounter with Diagnosis of COVID19 Infection"









### **HH-PI Denominator Exclusions (2)**

#### **Denominator Exclusions: "Encounter with Deep Tissue Pressure Injury POA"**

#### **Encounter with Deep Tissue Pressure Injury POA**

"Encounter with Deep Tissue Pressure Injury POA by Indicator" union "Encounter with Deep Tissue Pressure Injury POA by Skin Exam within First 72 Hours"

#### **Encounter with Deep Tissue Pressure Injury POA by Indicator**

```
"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient
  where exists (InpatientHospitalization EncounterInpatient.diagnoses DeepPressureInjury
    where DeepPressureInjury.code in "Pressure Injury Deep Tissue Diagnoses"
      and DeepPressureInjury.presentOnAdmissionIndicator in "Present on Admission or Clinically
      Undetermined"
```



#### The Joint Commission (CMS) Mathematica





# **HH-PI Denominator Exclusions (3)**

#### **Denominator Exclusions: "Encounter with Deep Tissue Pressure Injury POA"**

#### **Encounter with Deep Tissue Pressure Injury POA**

"Encounter with Deep Tissue Pressure Injury POA by Indicator"

union "Encounter with Deep Tissue Pressure Injury POA by Skin Exam within First 72 Hours"

#### **Encounter with Deep Tissue Pressure Injury POA by Skin Exam within First 72 Hours**

"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient with ["Physical Exam, Performed": "Physical findings of Skin"] SkinExam such that Global."NormalizeInterval" (SkinExam.relevantDatetime, SkinExam.relevantPeriod) starts 72 hours or less on or after start of

Global."HospitalizationWithObservation" (InpatientHospitalization EncounterInpatient) and Global. "NormalizeInterval" (SkinExam.relevantDatetime, SkinExam.relevantPeriod) starts during Global. "Hospitalization With Observation" (Inpatient Hospitalization Encounter Inpatient) and SkinExam.result in "Pressure Injury Deep Tissue"









# **HH-PI Denominator Exclusions (4)**

#### Denominator Exclusions: "Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA"

#### **Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA**

"Encounter with Stage 2, 3, 4, or Unstageable Pressure Injury POA by Indicator" union "Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA by Skin Exam within 24 Hours"

#### **Encounter with Stage 2, 3, 4, or Unstageable Pressure Injury POA by Indicator**

"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient where exists (InpatientHospitalization EncounterInpatient.diagnoses Stage234UnstageablePressureInjury where Stage234UnstageablePressureInjury.code in "Pressure Injury Stage 2, 3, 4, or Unstageable Diagnoses"

and Stage234UnstageablePressureInjury.presentOnAdmissionIndicator in "Present on Admission or Clinically Undetermined"









## **HH-PI Denominator Exclusions (5)**

#### Denominator Exclusions: "Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA"

#### **Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA**

"Encounter with Stage 2, 3, 4, or Unstageable Pressure Injury POA by Indicator"

→ union "Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA by Skin Exam within 24 Hours"

#### **Encounter with Stage 2, 3, 4 or Unstageable Pressure Injury POA by Skin Exam within 24 Hours**

"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient

with ["Physical Exam, Performed": "Physical findings of Skin"] SkinExam

such that Global."NormalizeInterval" (SkinExam.relevantDatetime, SkinExam.relevantPeriod) starts 24

start of Global. "HospitalizationWithObservation" (InpatientHospitalization hours or less on or after

#### **EncounterInpatient**)

and Global."NormalizeInterval" (SkinExam.relevantDatetime, SkinExam.relevantPeriod) starts during

Global."HospitalizationWithObservation" (InpatientHospitalization EncounterInpatient)

and SkinExam.result in "Pressure Injury Stage 2, 3, 4 or Unstageable"









### **HH-PI Denominator Exclusions (6)**

#### **Denominator Exclusions: "Encounter with Diagnosis of COVID19 Infection"**

#### **Encounter with Diagnosis of COVID19 Infection**

```
"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient
  where exists ( InpatientHospitalization EncounterInpatient.diagnoses EncounterDiagnosis
    where EncounterDiagnosis.code in "COVID 19"
```









### **HH-PI Numerator (1)**

Inpatient hospitalizations for patients with a new deep tissue pressure injury (DTPI) or stage 2, 3, 4, or unstageable pressure injury, as evidenced by any of the following:

A diagnosis of DTPI with the DTPI not present on admission, i.e., the diagnosis of DTPI has a Present on Admission indicator = N (Diagnosis was not present at time of inpatient admission) or U (documentation insufficient to determine if the condition was present at the time of inpatient admission).

A diagnosis of stage 2, 3, 4 or unstageable pressure injury with the pressure injury diagnosis not present on admission, i.e., the diagnosis of pressure injury has a Present on Admission indicator = N (Diagnosis was not present at time of inpatient admission) or U (documentation insufficient to determine if the condition was present at the time of inpatient admission).

A DTPI found on exam greater than 72 hours after the start of the encounter.

A stage 2, 3, 4 or unstageable pressure injury found on exam greater than 24 hours after the start of the encounter.

**Numerator: "Encounter with New Deep Tissue Pressure Injury Not POA"** union "Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA"









### HH-PI Numerator (2)

#### Numerator: "Encounter with New Deep Tissue Pressure Injury Not POA"

#### **Encounter with New Deep Tissue Pressure Injury Not POA**

"Encounter with New Deep Tissue Pressure Injury Not POA by Indicator" union "Encounter with New Deep Tissue Pressure Injury by Skin Exam after First 72 Hours"

#### **Encounter with New Deep Tissue Pressure Injury Not POA by Indicator**

"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient where exists ( InpatientHospitalization EncounterInpatient.diagnoses DeepPressureInjury where DeepPressureInjury.code in "Pressure Injury Deep Tissue Diagnoses" and DeepPressureInjury.presentOnAdmissionIndicator in "Not Present On Admission or Documentation Insufficient to Determine"









### HH-PI Numerator (3)

#### Numerator: "Encounter with New Deep Tissue Pressure Injury Not POA."

#### **Encounter with New Deep Tissue Pressure Injury Not POA**

"Encounter with New Deep Tissue Pressure Injury Not POA by Indicator"

→ union "Encounter with New Deep Tissue Pressure Injury by Skin Exam after First 72 Hours"

#### **Encounter with New Deep Tissue Pressure Injury by Skin Exam after First 72 Hours**

"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient let hospitalizationPeriod: Global."HospitalizationWithObservation" (InpatientHospitalization EncounterInpatient )

with ["Physical Exam, Performed": "Physical findings of Skin"] SkinExam such that Global."NormalizeInterval" (SkinExam.relevantDatetime, SkinExam.relevantPeriod) starts during Interval[start of hospitalizationPeriod + 72 hours, end of hospitalizationPeriod] and SkinExam.result in "Pressure Injury Deep Tissue"









### HH-PI Numerator (4)

#### Numerator: "Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA."

#### Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA

"Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA by Indicator" union "Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury by Skin Exam after First 24 Hours"

#### **Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA by Indicator**

```
"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient
  where exists ( InpatientHospitalization EncounterInpatient.diagnoses Stage234UnstageablePressureInjury
    where Stage234UnstageablePressureInjury.code in "Pressure Injury Stage 2, 3, 4, or Unstageable
    Diagnoses"
     and Stage234UnstageablePressureInjury.presentOnAdmissionIndicator in "Not Present On Admission
     or Documentation Insufficient to Determine"
```









### HH-PI Numerator (5)

#### Numerator: "Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA."

#### **Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA**

"Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury Not POA by Indicator"

→ union "Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury by Skin Exam after First 24 Hours"

#### Encounter with New Stage 2, 3, 4 or Unstageable Pressure Injury by Skin Exam after First 24 Hours

"Encounter with Age 18 and Older" InpatientHospitalization EncounterInpatient let hospitalizationPeriod: Global."HospitalizationWithObservation" (InpatientHospitalization

#### **EncounterInpatient**)

with ["Physical Exam, Performed": "Physical findings of Skin"] SkinExam such that Global."NormalizeInterval" (SkinExam.relevantDatetime, SkinExam.relevantPeriod) starts during Interval[start of hospitalizationPeriod + 24 hours, end of hospitalizationPeriod] and SkinExam.result in "Pressure Injury Stage 2, 3, 4 or Unstageable"







### Resources

### eCQI Resource Center

#### CMS EH Measures



#### **Get Started with eCQMs**

https://ecqi.healthit.gov/ecqms?qt-tabs ecqm=education



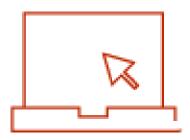
https://ecqi.healthit.gov/cql?qt-tabs cql=2

**Hospitalization with Observation -**

https://www.youtube.com/watch?v=3yqwOU2XcZM&ab channel=CMSHHSgov

What is a Value Set -

https://register.gotowebinar.com/recording/4766956164118938369





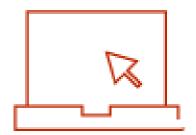




# Resources (2)

### Value Set Authority Center (VSAC) Support -

https://www.nlm.nih.gov/vsac/support/index.html



### **Pioneers In Quality -**

https://www.jointcommission.org/measurement/pioneers-in-quality/

### **Expert to Expert -**

https://www.jointcommission.org/measurement/quality-measurement-webinars-andvideos/expert-to-expert-webinars/

ASTP/ONC Issue Tracking System - <a href="https://oncprojectracking.healthit.gov/">https://oncprojectracking.healthit.gov/</a>







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### **Expert to Expert Webinars**

The Joint Commission's Expert to Expert (EtoE) Webinar Series provides a deep-dive into measure intent, logic, and other clinical/technical aspects of electronic clinical quality measures (eCQMs) to assist hospitals and health systems in their efforts to improve eCQM data use for quality improvement. This series incorporates expertise from Joint Commission and other key stakeholders.

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# **Acronyms**

Acronym	Meaning	
CBE	Consensus-Based Entity	
CMS	Centers for Medicare& Medicaid Services	
CY	Calendar Year	
eCQM	Electronic Clinical Quality Measure	
DTPI	Deep Tissue Pressure Injury	
EHR	Electronic Health Record	
FY	Fiscal Year	
PI	Pressure Injury	





