Acute Pancreatitis: Percentage of patients who were hospitalized with acute pancreatitis who receive oral feeding within 24 hours of admission to the hospital.

Based on American Gastroenterological Association Institute Guideline on Initial Management of Acute Pancreatitis

Introduction: The following quality measure is designed for use as a hospital inpatient measure. It is meant to measure the quality of care provided to patients with acute pancreatitis admitted to an acute care hospital regardless of the providers taking care of the patient as a measure of the overall care the patient receives while hospitalized. While 100% adherence to this measure may not be achievable, the quality measure provides a framework for quality improvement and benchmarking at the hospital level.

Measure Set: Hospital Inpatient Acute Pancreatitis

Measure ID#: 

Setting: Hospital Inpatient

Performance Measure Name: Early Oral Feeding

Description: Percentage of patients aged 18 years and older with a diagnosis of acute pancreatitis who receive oral feeding within 24 hours of admission to the hospital.

Rationale: Acute pancreatitis is a common gastrointestinal condition that is associated with substantial suffering, morbidity, and cost to the healthcare system. In the US, AP is a leading cause of inpatient care among gastrointestinal conditions: over 275,000 patients are hospitalized for AP annually, at an aggregate cost of over $2.6 billion per year. The incidence of AP ranges from 5 to 30 cases per 100,000, and there is evidence that the incidence is rising in recent years. The overall case fatality rate for AP is roughly 5% and is expectedly higher for more severe disease. Historically, the initial management of nutrition in patients with acute pancreatitis (mild, predicted severe and/or necrotizing) has been to keep them NPO. The hypothesis was that decreasing stimulation of the pancreas would thereby decrease pancreatic secretion and lead to less enzyme induced inflammation. However, there is now data supporting early oral feeding via its beneficial effect of the gut mucosal barrier. Early feeding is associated with lower rates of infected pancreatic necrosis (as well as lower rates of intervention for necrosis), multi-organ failure, and decreased length of stay with no difference in overall mortality.

Type of Measure: Process

Improvement Noted as: An increase in rate

Numerator Statement: Hospitalized patients with acute pancreatitis who receive an oral diet within the first 24 hours of hospital admission

Included populations: Not applicable

Excluded populations: None

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Data Elements:
- Admission Time
- Oral Diet Order Time

Denominator Statement: Hospitalized patients with acute pancreatitis

Included Populations:
- Principal discharge diagnosis of acute pancreatitis
- Encounter dates MM-DD-YYYY through MM-DD-YYYY, AND
- Patients discharged from an acute care hospital for inpatient care, AND
- A principal discharge diagnosis related group (DRG) equal to 438, 439, or 440, AND
- An ICD-10-CM principal diagnosis code for acute pancreatitis defined as ICD-10-CM equal to K85.X

Excluded Populations:
- Patients less than 18 years of age
- Patients transferred from another healthcare facility
- Patients discharged against medical advice (AMA)
- Patients hospitalized for less than 24 hours
- Patients receiving enteral nutrition via feeding tube within 24 hours of admission
- Patients with another gastrointestinal medical condition that precludes enteral feeding (gastrointestinal obstruction, ileus, short bowel syndrome, abdominal compartment syndrome)

Data Elements:
- Admission Date
- Admission Time
- Admission Type
- Birthdate
- Discharge Date
- Discharge Status
- Discharge Time
- DRG discharge code
- ICD-10-CM other diagnosis codes
- ICD-10-CM principal diagnosis code

Risk Adjustment: No

Data Collection Approach: Retrospective data sources for required data elements include administrative data and medical records. Some facilities may prefer to gather data concurrently by identifying patients in the population of interest. This approach provides opportunity for improvement at the point of care/service. However, complete documentation includes the ICD-10 and DRG codes, which requires retrospective data entry.

Data Accuracy: Variation may exist in the assignment of ICD-10 and DRG codes; therefore, coding practices may require evaluation to ensure consistency.

Measure Analysis Suggestions: The measure rate for early oral feeding within 24 hours of hospital admission should be analyzed in conjunction with the measure rate of parenteral nutrition (measure XYZ). These measures, used together, will
assist in understanding the number of acute pancreatitis patients that receive no nutrition and/or parenteral nutrition; and identify potential opportunities to improve the rate of inappropriate nutritional care in patients with acute pancreatitis.

Data Reported As: Aggregate rate generated from count data reported as a proportion.

Selected References:

- Eckerwall GE, Tingstedt BB, Bergenzaun PE, Andersson RG. Immediate oral feeding in patients with mild acute pancreatitis is safe and may accelerate recovery—a randomized clinical study. In: Clinical nutrition (Edinburgh, Scotland); 2007:758-63.

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