

<b>eMeasure Title</b>	<b>Alcohol and Other Drug Use Disorder Treatment Provided or Offered at Discharge (SUB-3) / Alcohol and Other Drug Use Disorder Treatment at Discharge (SUB-3a)</b>		
<b>eMeasure Identifier (Measure Authoring Tool)</b>	575	<b>eMeasure Version number</b>	0.0.016
<b>NQF Number</b>	None	<b>GUID</b>	3f20f581-cefc-403d-8ac5-132291fb6aa3
<b>Measurement Period</b>	January 1, 20XX through December 31, 20XX		
<b>Measure Steward</b>	The Joint Commission		
<b>Measure Developer</b>	Mathematica Policy Research		
<b>Measure Developer</b>	Office of the Assistant Secretary for Planning and Evaluation (ASPE)		
<b>Measure Developer</b>	RTI International		
<b>Endorsed By</b>	None		
<b>Description</b>	<p>SUB-3: This measure assesses the proportion of hospitalized adult patients identified with an alcohol or drug use disorder who received, had a medical reason not to receive, or refused a prescription for FDA-approved medications for alcohol or drug use disorder upon discharge, OR who received or refused a referral for addictions treatment within three days before admission through the day of discharge.</p> <p>SUB-3a: This measure assesses the proportion of hospitalized adult patients identified with an alcohol or drug use disorder who received a prescription for FDA-approved medications for alcohol or drug use disorder upon discharge, OR who received a referral for addictions treatment within three days before admission through the day of discharge.</p>		
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<b>Measure Scoring</b>	Proportion		
<b>Measure Type</b>	Process		
<b>Measure Item Count</b>	Encounter, Performed: Encounter Inpatient		
<b>Stratification</b>	None		
<b>Risk Adjustment</b>	None		
<b>Rate Aggregation</b>	None		

<b>eMeasure Title</b>	<b>Alcohol and Other Drug Use Disorder Treatment Provided or Offered at Discharge (SUB-3) / Alcohol and Other Drug Use Disorder Treatment at Discharge (SUB-3a)</b>
<b>Rationale</b>	<p>Excessive use of alcohol and drugs has a substantial harmful impact on health and society in the United States. It is a drain on the economy and a source of enormous personal tragedy (The National Quality Forum 2007). In 1998, the economic costs to society were \$185 billion for alcohol misuse and \$143 billion for drug misuse (Harwood 2000). Health care spending was \$19 billion for alcohol problems and \$14 billion for drug problems.</p> <p>Nearly one-quarter of \$1 trillion per year in lost productivity is attributable to substance use. More than 537,000 die each year as a consequence of alcohol, drug, and tobacco use, making the use of these substances the cause of one out of four deaths in the United States (Mokdad et al. 2004).</p> <p>An estimated 22.6 million adolescents and adults meet criteria for a substance use disorder. In a multistate study that screened 459,599 patients in general hospital and medical settings, 23 percent of patients screened positive (Madras et al. 2009).</p> <p>Clinical trials have demonstrated that brief interventions, especially before the onset of addiction, significantly improve health and reduce costs, and that similar benefits occur in those with addictive disorders who are referred to treatment (Fleming et al. 2002).</p> <p>In a study on the provision of evidence-based care and preventive services provided in hospitals for 30 different medical conditions, quality varied substantially according to diagnosis. Adherence to recommended practices for treatment of substance use ranked last, with only 10 percent of patients receiving proper care (Gentilello et al. 2005). Currently, fewer than one in 20 patients with an addiction are referred for treatment (Gentilello et al. 1999).</p> <p>Hospitalization provides a prime opportunity to address the entire spectrum of substance use problems within the health care system (Gentilello et al. 2005, 1999). Approximately 8 percent of general hospital inpatients and 40–60 percent of traumatically injured and psychiatric inpatients have substance use disorders (Gentilello et al. 1999).</p>
<b>Clinical Recommendation Statement</b>	Excessive use of alcohol and drugs has a substantial harmful impact on health and society in the United States. Hospitalization provides a prime opportunity to address the entire spectrum of substance use problems within the health care system (Gentilello et al. 2005, 1999). Currently, fewer than one in 20 patients with an addiction are referred for treatment (Gentilello et al. 1999).
<b>Improvement Notation</b>	Improvement noted as an increase in rate.
<b>Reference</b>	Fleming MF, Mundt MP, French MT, Manwell LB, Stauffacher EA, Barry KL. Brief physician advice for problem drinkers: Long-term efficacy and cost-benefit analysis. <i>Alcohol Clin Exp Res</i> . 2002 Jan;26(1):36–43.
<b>Reference</b>	Gentilello LM, Ebel BE, Wickizer TM, Salkever DS, Rivera FP. Alcohol interventions for trauma patients treated in emergency departments and hospitals: A cost benefit analysis. <i>Ann Surg</i> . 2005 Apr;241(4):541–50.
<b>Reference</b>	Gentilello LM, Villaveces A, Ries RR, Nason KS, Daranciang E, Donovan DM, Copass M, Jurkovich GJ, Rivara FP. Detection of acute alcohol intoxication and chronic alcohol dependence by trauma center staff. <i>J Trauma</i> . 1999 Dec;47(6):1131–5; discussion 1135–9.
<b>Reference</b>	Harwood, HJ, 2000. Updating Estimates of the Economic Costs of Alcohol Abuse in the United States. National Institute on Alcohol Abuse and Alcoholism. Available from: <a href="http://pubs.niaaa.nih.gov/publications/economic-2000/">http://pubs.niaaa.nih.gov/publications/economic-2000/</a>

<b>eMeasure Title</b>	<b>Alcohol and Other Drug Use Disorder Treatment Provided or Offered at Discharge (SUB-3) / Alcohol and Other Drug Use Disorder Treatment at Discharge (SUB-3a)</b>
<b>Reference</b>	Madras BK, Compton WM, Avula D, Stegbauer T, Stein JB, Clark HW. Screening, brief interventions, referral to treatment (SBIRT) for illicit drug and alcohol use at multiple healthcare sites: Comparison at intake and 6 months later. Drug Alcohol Depend. 2009 Jan 1;99(1-3):280-95. Epub 2008 Oct 16.
<b>Reference</b>	Mokdad AH, Marks JS, Stroup DS, Gerberding JL. Actual Causes of Death in the United States, 2000. JAMA. 2004 Mar 10;291(10):1238-45 (Erratum in: JAMA. 2005 Jan 19;293(3):293-4.)
<b>Reference</b>	National Institute on Drug Abuse. Archives. The Economic Costs of Drug Abuse in the United States: 1992-2002. Available at <a href="https://www.ncjrs.gov/ondcppubs/publications/pdf/economic_costs.pdf">https://www.ncjrs.gov/ondcppubs/publications/pdf/economic_costs.pdf</a> . Accessed June 23, 2016.
<b>Reference</b>	National Quality Forum, National Voluntary Consensus Standards for the Treatment of Substance Use Conditions: Evidence-Based Treatment Practices; A Consensus Report; 2007.
<b>Definition</b>	<p>An individual with an alcohol or drug use disorder is defined as someone meeting the following criteria:</p> <ul style="list-style-type: none"> <li>* Has a diagnosis indicative of an alcohol or drug use disorder</li> <li>* Is receiving treatment for an alcohol or drug use disorder</li> </ul> <p>Alcohol or Drug Use referral – referral to specially trained professionals to provide full continuum of care to treat alcohol and substance abuse</p>
<b>Guidance</b>	<p>The logic that accounts for a time frame of 3 days prior to admission is intended as a timing approximation, primarily to account for events that may occur after hospital arrival but before inpatient admission (e.g., when the patient is in the emergency department or observation status). Events occurring before hospital arrival but within the 3-day time frame are technically allowable for this logic construct (e.g., telephone screening for planned admissions). There is no expectation that the timing constraint would reframe the interpretation or otherwise adjust the inherent meaning of Quality Data Model's (QDM) data types. For instance, there would be no expectation that a medication administered before hospital arrival would be captured.</p> <p>In order to provide flexibility in workflows and data capture, the denominator exclusions logic allows for various data sources for capturing cognitive impairment. These include:</p> <ul style="list-style-type: none"> <li>* The result of a cognitive status assessment, potentially sourced from a nursing, neurological, or psychiatric assessment</li> <li>* Documentation of cognitive impairment as a reason not to perform an alcohol use screening assessment</li> <li>* A problem list or coded diagnosis indicative of impaired cognition</li> </ul> <p>Substance use may be identified through a positive clinical laboratory test indicating alcohol or drug intoxication within three days prior to admission or during the encounter.</p> <p>The numerator logic includes multiple options for the representation of medical reasons/patient refusal of FDA-approved medications for alcohol and drug use disorders to provide flexibility in data capture.</p>
<b>Transmission Format</b>	TBD
<b>Initial Population</b>	Patients age 18 years and older discharged from inpatient care during the measurement period with a length of stay greater than 1 day and less than or equal to 120 days.

<b>eMeasure Title</b>	<b>Alcohol and Other Drug Use Disorder Treatment Provided or Offered at Discharge (SUB-3) / Alcohol and Other Drug Use Disorder Treatment at Discharge (SUB-3a)</b>
<b>Denominator</b>	Patients identified with an alcohol or drug use disorder who were discharged to home or police custody.
<b>Denominator Exclusions</b>	Patients with comfort measures documented within 3 days prior to or anytime during admission. A diagnosis indicative of impaired cognition that overlaps with the encounter. Patients with documentation of impaired cognition within 3 days prior through 1 day after admission, as evidenced by: * An assessment of the patient's cognitive status * Explicit documentation of impaired cognition as a reason not to perform an unhealthy alcohol use screening assessment
<b>Numerator</b>	SUB-3: Patients identified with an alcohol or drug use disorder who received a prescription for FDA-approved medications for alcohol or drug use disorder upon discharge, OR who received a referral for addictions treatment within 3 days before admission through the day of discharge.  SUB-3a: Patients identified with an alcohol or drug use disorder who received a prescription for FDA-approved medications for alcohol or drug use disorder upon discharge, OR who received a referral for addictions treatment within three days before admission through the day of discharge.
<b>Numerator Exclusions</b>	Not applicable
<b>Denominator Exceptions</b>	None
<b>Supplemental Data Elements</b>	For every patient evaluated by this measure also identify payer, race, ethnicity and sex.

## Table of Contents

- [Population Criteria](#)
- [Data Criteria \(QDM Variables\)](#)
- [Data Criteria \(QDM Data Elements\)](#)
- [Supplemental Data Elements](#)
- [Risk Adjustment Variables](#)

## Population Criteria

### ----- Population Criteria 1 -----

- **Initial Population =**
  - AND: Age >= 18 year(s) at: Occurrence A of \$EncounterInpatient
  - AND: Intersection of:
    - Occurrence A of \$EncounterInpatient
    - "Encounter, Performed: Encounter Inpatient (length of stay > 1 day(s))"
- **Denominator =**
  - AND: Initial Population
  - AND: Union of:
    - "Diagnosis: Alcohol and Drug Dependence" starts before end of Occurrence A of \$EncounterInpatient

- "Intervention, Performed: Alcohol and Drug Dependence Treatment" starts during Occurrence A of \$EncounterInpatient
    - AND: Intersection of:
      - Occurrence A of \$EncounterInpatient
      - "Encounter, Performed: Encounter Inpatient (discharge status: Discharge To Home Or Police Custody)"
  - **Denominator Exclusions =**
    - # *Comfort measures only exclusion*
    - OR: \$InterventionComfortMeasures <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
    - OR: \$InterventionComfortMeasures starts during Occurrence A of \$EncounterInpatient
    - OR:
      - AND:
        - # *Choose one of the three definitions to identify patients that are cognitively impaired: Option 1: Impaired cognition sourced from the result of a cognitive status assessment*
        - OR: "Physical Exam, Performed: Cognitive Status" satisfies all:
          - (result: Impaired Cognition)
          - <= 1 day(s) starts after or concurrent with start of Occurrence A of \$EncounterInpatient
      - # *Choose one of the three definitions to identify patients that are cognitively impaired: Option 2: Impaired cognition sourced from explicit documentation of a reason for not performing an alcohol use screening assessment*
      - OR: "Assessment, Performed not done: Impaired Cognition" for "Validated Screening Tool for Alcohol Use" <= 1 day(s) starts after or concurrent with start of Occurrence A of \$EncounterInpatient
      - # *Choose one of the three definitions to identify patients that are cognitively impaired: Option 3: Impaired cognition sourced from a documented diagnosis*
      - OR: "Diagnosis: Cognitive and Psychiatric Disorders Indicative of Impaired Cognition" overlaps Occurrence A of \$EncounterInpatient
      - OR: Intersection of:
        - Occurrence A of \$EncounterInpatient
        - "Encounter, Performed: Encounter Inpatient (diagnosis: Cognitive and Psychiatric Disorders Indicative of Impaired Cognition)"
      - AND NOT:
        - OR: "Laboratory Test, Performed: BH Blood alcohol test" satisfies any:
          - (result: Alcohol Intoxication) <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
          - (result: Alcohol Intoxication) starts during Occurrence A of \$EncounterInpatient
        - OR: "Laboratory Test, Performed: Drug and Alcohol Test" satisfies any:
          - (result: Drug Intoxication) <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
          - (result: Drug Intoxication) starts during Occurrence A of \$EncounterInpatient
          - (result: Alcohol Intoxication) <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
          - (result: Alcohol Intoxication) starts during Occurrence A of \$EncounterInpatient
- **Numerator =**
  - AND:
    - # *Referral provided or refused*
    - OR: "Intervention, Order: Moderation of ETOH Consumption Recommendation" satisfies any:
      - <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
      - starts during Occurrence A of \$EncounterInpatient
    - OR: "Intervention, Order not done: Patient Refusal" for "Moderation of ETOH Consumption Recommendation" <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
    - OR: "Intervention, Order not done: Patient Refusal" for "Moderation of ETOH Consumption Recommendation" starts during Occurrence A of \$EncounterInpatient
    - # *Medication prescribed or refused*
    - OR: Union of:
      - "Medication, Discharge: FDA Approved Medication for Alcohol or Drug Dependence Cessation"

- "Medication, Discharge not done: Medical Reason" for "FDA Approved Medication for Alcohol or Drug Dependence Cessation"
  - "Medication, Discharge not done: Patient Refusal" for "FDA Approved Medication for Alcohol or Drug Dependence Cessation"
  - starts during Occurrence A of \$EncounterInpatient
- **Numerator Exclusions =**
  - None
- **Denominator Exceptions =**
  - None
- **Stratification =**
  - None

----- Population Criteria 2 -----

- **Initial Population =**
  - AND: Age >= 18 year(s) at: Occurrence A of \$EncounterInpatient
  - AND: Intersection of:
    - Occurrence A of \$EncounterInpatient
    - "Encounter, Performed: Encounter Inpatient (length of stay > 1 day(s))"
- **Denominator =**
  - AND: Initial Population
  - AND: Union of:
    - "Diagnosis: Alcohol and Drug Dependence" starts before end of Occurrence A of \$EncounterInpatient
    - "Intervention, Performed: Alcohol and Drug Dependence Treatment" starts during Occurrence A of \$EncounterInpatient
  - AND: Intersection of:
    - Occurrence A of \$EncounterInpatient
    - "Encounter, Performed: Encounter Inpatient (discharge status: Discharge To Home Or Police Custody)"
- **Denominator Exclusions =**
  - # Comfort measures only exclusion
  - OR: \$InterventionComfortMeasures <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
  - OR: \$InterventionComfortMeasures starts during Occurrence A of \$EncounterInpatient
  - OR:
    - AND:
      - # Choose one of the three definitions to identify patients that are cognitively impaired: Option 1: Impaired cognition sourced from the result of a cognitive status assessment
      - OR: "Physical Exam, Performed: Cognitive Status" satisfies all:
        - (result: Impaired Cognition)
        - <= 1 day(s) starts after or concurrent with start of Occurrence A of \$EncounterInpatient
      - # Choose one of the three definitions to identify patients that are cognitively impaired: Option 2: Impaired cognition sourced from explicit documentation of a reason for not performing an alcohol use screening assessment
      - OR: "Assessment, Performed not done: Impaired Cognition" for "Validated Screening Tool for Alcohol Use" <= 1 day(s) starts after or concurrent with start of Occurrence A of \$EncounterInpatient
      - # Choose one of the three definitions to identify patients that are cognitively impaired: Option 3: Impaired cognition sourced from a documented diagnosis
      - OR: "Diagnosis: Cognitive and Psychiatric Disorders Indicative of Impaired Cognition" overlaps Occurrence A of \$EncounterInpatient
      - OR: Intersection of:
        - Occurrence A of \$EncounterInpatient
        - "Encounter, Performed: Encounter Inpatient (diagnosis: Cognitive and Psychiatric Disorders Indicative of Impaired Cognition)"
    - AND NOT:
      - OR: "Laboratory Test, Performed: BH Blood alcohol test" satisfies any:

- (result: Alcohol Intoxication) <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
    - (result: Alcohol Intoxication) starts during Occurrence A of \$EncounterInpatient
  - OR: "Laboratory Test, Performed: Drug and Alcohol Test" satisfies any:
    - (result: Drug Intoxication) <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
    - (result: Drug Intoxication) starts during Occurrence A of \$EncounterInpatient
    - (result: Alcohol Intoxication) <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
    - (result: Alcohol Intoxication) starts during Occurrence A of \$EncounterInpatient
- **Numerator =**
  - AND:
    - # *Referral provided*
    - OR: "Intervention, Order: Moderation of ETOH Consumption Recommendation" satisfies any:
      - <= 3 day(s) starts before start of Occurrence A of \$EncounterInpatient
      - starts during Occurrence A of \$EncounterInpatient
    - # *Medication prescribed*
    - OR: "Medication, Discharge: FDA Approved Medication for Alcohol or Drug Dependence Cessation" starts during Occurrence A of \$EncounterInpatient
- **Numerator Exclusions =**
  - None
- **Denominator Exceptions =**
  - None
- **Stratification =**
  - None

## Data Criteria (QDM Variables)

- **\$EncounterInpatient =**
  - "Encounter, Performed: Encounter Inpatient" satisfies all:
    - (length of stay <= 120 day(s))
    - ends during "Measurement Period"
- **\$InterventionComfortMeasures =**
  - Union of:
    - "Intervention, Order: Comfort Measures"
    - "Intervention, Performed: Comfort Measures"

## Data Criteria (QDM Data Elements)

- "Assessment, Performed: Validated Screening Tool for Alcohol Use" using "Validated Screening Tool for Alcohol Use LOINC Value Set (2.16.840.1.113762.1.4.1145.1)"
- "Assessment, Performed not done: Impaired Cognition" using "Impaired Cognition Grouping Value Set (2.16.840.1.113762.1.4.1046.89)"
- "Diagnosis: Alcohol and Drug Dependence" using "Alcohol and Drug Dependence Grouping Value Set (2.16.840.1.113883.3.464.1003.106.12.1001)"
- "Diagnosis: Cognitive and Psychiatric Disorders Indicative of Impaired Cognition" using "Cognitive and Psychiatric Disorders Indicative of Impaired Cognition Grouping Value Set (2.16.840.1.113762.1.4.1111.120)"
- "Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient SNOMEDCT Value Set (2.16.840.1.113883.3.666.5.307)"
- "Intervention, Order: Comfort Measures" using "Comfort Measures SNOMEDCT Value Set (1.3.6.1.4.1.33895.1.3.0.45)"

- "Intervention, Order: Moderation of ETOH Consumption Recommendation" using "Moderation of ETOH Consumption Recommendation SNOMEDCT Value Set (2.16.840.1.113883.3.600.823)"
- "Intervention, Order not done: Patient Refusal" using "Patient Refusal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.93)"
- "Intervention, Performed: Alcohol and Drug Dependence Treatment" using "Alcohol and Drug Dependence Treatment Grouping Value Set (2.16.840.1.113762.1.4.1145.15)"
- "Intervention, Performed: Comfort Measures" using "Comfort Measures SNOMEDCT Value Set (1.3.6.1.4.1.33895.1.3.0.45)"
- "Laboratory Test, Performed: BH Blood alcohol test" using "BH Blood alcohol test Grouping Value Set (2.16.840.1.113883.3.1257.1.1602)"
- "Laboratory Test, Performed: Drug and Alcohol Test" using "Drug and Alcohol Test LOINC Value Set (2.16.840.1.113762.1.4.1145.3)"
- "Medication, Discharge: FDA Approved Medication for Alcohol or Drug Dependence Cessation" using "FDA Approved Medication for Alcohol or Drug Dependence Cessation Grouping Value Set (2.16.840.1.113762.1.4.1145.16)"
- "Medication, Discharge not done: Medical Reason" using "Medical Reason SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.473)"
- "Medication, Discharge not done: Patient Refusal" using "Patient Refusal SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.93)"
- "Physical Exam, Performed: Cognitive Status" using "Cognitive Status LOINC Value Set (2.16.840.1.113762.1.4.1046.91)"
- Attribute: "Result: Drug Intoxication" using "Drug Intoxication SNOMEDCT Value Set (2.16.840.1.113762.1.4.1145.5)"
- Attribute: "Result: Alcohol Intoxication" using "Alcohol Intoxication SNOMEDCT Value Set (2.16.840.1.113762.1.4.1145.4)"
- Attribute: "Discharge status: Discharge To Home Or Police Custody" using "Discharge To Home Or Police Custody SNOMEDCT Value Set (2.16.840.1.113883.3.117.1.7.1.82)"
- Attribute: "Result: Impaired Cognition" using "Impaired Cognition Grouping Value Set (2.16.840.1.113762.1.4.1046.89)"
- Attribute: "Diagnosis: Cognitive and Psychiatric Disorders Indicative of Impaired Cognition" using "Cognitive and Psychiatric Disorders Indicative of Impaired Cognition Grouping Value Set (2.16.840.1.113762.1.4.1111.120)"

## Supplemental Data Elements

- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity CDCREC Value Set (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer SOP Value Set (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race CDCREC Value Set (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex AdministrativeGender Value Set (2.16.840.1.113762.1.4.1)"

## Risk Adjustment Variables

- None

Measure Set
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