eMeasure Title	**Preventive Care and Screening: Tobacco Use: Screening and Cessation Intervention**

eMeasure Identifier (Measure Authoring Tool)	138	**eMeasure Version number**	6.1.000
NQF Number	0028	**GUID**	e35791df-5b25-41bb-b260-673337bc44a8

Measurement Period	January 1, 20XX through December 31, 20XX
Measure Steward	PCPI(R) Foundation (PCPI[R])
Measure Developer	American Medical Association (AMA)
Measure Developer	PCPI(R) Foundation (PCPI[R])
Endorsed By	National Quality Forum
Description	Percentage of patients aged 18 years and older who were screened for tobacco use one or more times within 24 months AND who received tobacco cessation intervention if identified as a tobacco user

Three rates are reported:
a. Percentage of patients aged 18 years and older who were screened for tobacco use one or more times within 24 months
b. Percentage of patients aged 18 years and older who were screened for tobacco use and identified as a tobacco user who received tobacco cessation intervention
c. Percentage of patients aged 18 years and older who were screened for tobacco use one or more times within 24 months AND who received tobacco cessation intervention if identified as a tobacco user |
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Measure Scoring	Proportion
Measure Type	Process
Stratification	None
Risk Adjustment	None
Rate Aggregation	None
Rationale	This measure is intended to promote adult tobacco screening and tobacco cessation interventions for those who use tobacco products. There is good evidence that tobacco screening and brief cessation intervention (including counseling and/or pharmacotherapy) is successful in helping tobacco users quit. Tobacco users who are able to stop using tobacco lower their risk for heart disease, lung disease, and stroke.
Clinical Recommendation	The USPSTF recommends that clinicians ask all adults about tobacco use, advise them to stop using tobacco, and provide behavioral interventions and U.S. Food and Drug Administration (FDA)-approved pharmacotherapy for

Statement	cessation to adults who use tobacco. (Grade A Recommendation) (U.S. Preventive Services Task Force, 2015) The USPSTF recommends that clinicians ask all pregnant women about tobacco use, advise them to stop using tobacco, and provide behavioral interventions for cessation to pregnant women who use tobacco. (Grade A Recommendation) (U.S. Preventive Services Task Force, 2015) The USPSTF concludes that the current evidence is insufficient to recommend electronic nicotine delivery systems for tobacco cessation in adults, including pregnant women. The USPSTF recommends that clinicians direct patients who smoke tobacco to other cessation interventions with established effectiveness and safety (previously stated). (Grade I Statement) (U.S. Preventive Services Task Force, 2015)
Improvement Notation	Higher score indicates better quality
Reference	Siu AL; U.S. Preventive Services Task Force. Behavioral and Pharmacotherapy Interventions for Tobacco Smoking Cessation in Adults, Including Pregnant Women: U.S. Preventive Services Task Force Recommendation Statement. Ann Intern Med. 2015 Oct 20;163(8):622-34.
Definition	Tobacco Use - Includes any type of tobacco Tobacco Cessation Intervention - Includes brief counseling (3 minutes or less), and/or pharmacotherapy -- Note: Concepts aligned with brief counseling (eg, minimal and intensive advice/counseling interventions conducted both in person and over the phone) are included in the value set for the numerator. Other concepts such as written self-help materials (eg, brochures, pamphlets) and complementary/alternative therapies are not included in the value set and do not qualify for the numerator.
Guidance	If a patient uses any type of tobacco (ie, smokes or uses smokeless tobacco), the expectation is that they should receive tobacco cessation intervention: either counseling and/or pharmacotherapy. If a patient has multiple tobacco use screenings during the 24 month period, only the most recent screening, which has a documented status of tobacco user or tobacco non-user, will be used to satisfy the measure requirements. If tobacco use status of a patient is unknown, the patient does not meet the screening component required to be counted in the numerator and should be considered a measure failure. Instances where tobacco use status of "unknown" is recorded include: 1) the patient was not screened; or 2) the patient was screened and the patient (or caregiver) was unable to provide a definitive answer. If the patient does not meet the screening component of the numerator but has an allowable medical exception, then the patient should be removed from the denominator of the measure and reported as a valid exception. The medical reason exception may be applied to either the screening data element OR to any of the applicable tobacco cessation intervention data elements (counseling and/or pharmacotherapy) included in the measure. If a patient has a diagnosis of limited life expectancy, that patient has a valid denominator exception for not being screened for tobacco use or for not receiving tobacco use cessation intervention (counseling and/or pharmacotherapy) if identified as a tobacco user. As noted above in a recommendation statement from the USPSTF, the current evidence is insufficient to recommend electronic nicotine delivery systems (ENDS) including electronic cigarettes for tobacco cessation. Additionally, ENDS are not currently classified as tobacco in the recent evidence review to support the update of the USPSTF recommendation given that the devices do not burn or use tobacco leaves. In light of the current lack of evidence, the measure does not currently capture e-cigarette usage as either tobacco use or a cessation aid. The requirement of "Count >=2 Encounter, Performed" is to establish that the eligible professional or eligible clinician has an existing relationship with the patient for certain types of encounters. This measure contains three reporting rates which aim to identify patients who were screened for tobacco use (rate/population 1), patients who were identified as tobacco users and who received tobacco cessation intervention (rate/population 2), and a comprehensive look at the overall performance on tobacco screening and cessation intervention (rate/population 3). By separating this measure into various reporting rates, the eligible professional or eligible clinician will be able to better ascertain where gaps in performance exist, and identify opportunities for improvement. The overall rate (rate/population 3) can be utilized to compare performance to prior published versions of this measure.
Transmission Format	TBD
Initial Population	All patients aged 18 years and older seen for at least two visits or at least one preventive visit during the measurement period
Denominator	Population 1: Equals Initial Population Population 2: Equals Initial Population who were screened for tobacco use and identified as a tobacco user Population 3: Equals Initial Population
Denominator Exclusions	None
Numerator	Population 1: Patients who were screened for tobacco use at least once within 24 months

	Population 2: Patients who received tobacco cessation intervention **Population 3:** Patients who were screened for tobacco use at least once within 24 months AND who received tobacco cessation intervention if identified as a tobacco user
Numerator Exclusions	Not Applicable
Denominator Exceptions	**Population 1:** Documentation of medical reason(s) for not screening for tobacco use (eg, limited life expectancy, other medical reason) **Population 2:** Documentation of medical reason(s) for not providing tobacco cessation intervention (eg, limited life expectancy, other medical reason) **Population 3:** Documentation of medical reason(s) for not screening for tobacco use OR for not providing tobacco cessation intervention for patients identified as tobacco users (eg, limited life expectancy, other medical reason)
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex

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Population Criteria

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

- **Initial Population =**
  - AND: Age>= 18 year(s) at: "Measurement Period"
  - AND:
    - OR: Count>= 2 : Union of:
      - "Encounter, Performed: Face-to-Face Interaction"
      - "Encounter, Performed: Health & Behavioral Assessment - Individual"
      - "Encounter, Performed: Health and Behavioral Assessment - Initial"
      - "Encounter, Performed: Health and Behavioral Assessment, Reassessment"
      - "Encounter, Performed: Home Healthcare Services"
      - "Encounter, Performed: Occupational Therapy Evaluation"
      - "Encounter, Performed: Office Visit"
      - "Encounter, Performed: Ophthalmological Services"
      - "Encounter, Performed: Psych Visit - Diagnostic Evaluation"
      - "Encounter, Performed: Psych Visit - Psychotherapy"
      - "Encounter, Performed: Psychoanalysis"
      - "Encounter, Performed: Speech and Hearing Evaluation"
      - during "Measurement Period"
    - OR: Count>= 1 : Union of:
      - "Encounter, Performed: Annual Wellness Visit"
      - "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up"
      - "Encounter, Performed: Preventive Care Services - Group Counseling"
      - "Encounter, Performed: Preventive Care Services - Other"
      - "Encounter, Performed: Preventive Care Services-Individual Counseling"
      - "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up"
      - during "Measurement Period"
- **Denominator =**
  - AND: Initial Population
- **Denominator Exclusions =**
  - None
- **Numerator =**
  - AND:
    - OR: $TobaccoUseScreeningNonUser
    - OR: $TobaccoUseScreeningUser
- **Numerator Exclusions =**
  - None
- **Denominator Exceptions =**
  - OR:
    - AND: "Occurrence A of Diagnosis: Limited Life Expectancy" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis: Limited Life Expectancy" ends before end of "Measurement Period"

- OR: "Assessment, Performed not done: Medical Reason" for "Tobacco Use Screening" <= 24 month(s) starts before end of "Measurement Period"
- **Stratification =**
    - None

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

- **Initial Population =**
    - AND: Age>= 18 year(s) at: "Measurement Period"
    - AND:
        - OR: Count>= 2 : Union of:
            - "Encounter, Performed: Face-to-Face Interaction"
            - "Encounter, Performed: Health & Behavioral Assessment - Individual"
            - "Encounter, Performed: Health and Behavioral Assessment - Initial"
            - "Encounter, Performed: Health and Behavioral Assessment, Reassessment"
            - "Encounter, Performed: Home Healthcare Services"
            - "Encounter, Performed: Occupational Therapy Evaluation"
            - "Encounter, Performed: Office Visit"
            - "Encounter, Performed: Ophthalmological Services"
            - "Encounter, Performed: Psych Visit - Diagnostic Evaluation"
            - "Encounter, Performed: Psych Visit - Psychotherapy"
            - "Encounter, Performed: Psychoanalysis"
            - "Encounter, Performed: Speech and Hearing Evaluation"
            - during "Measurement Period"
        - OR: Count>= 1 : Union of:
            - "Encounter, Performed: Annual Wellness Visit"
            - "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up"
            - "Encounter, Performed: Preventive Care Services - Group Counseling"
            - "Encounter, Performed: Preventive Care Services - Other"
            - "Encounter, Performed: Preventive Care Services-Individual Counseling"
            - "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up"
            - during "Measurement Period"
- **Denominator =**
    - AND: Initial Population
    - AND: $TobaccoUseScreeningUser
- **Denominator Exclusions =**
    - None
- **Numerator =**
    - AND: Occurrence A of $TobaccoCessationIntervention starts after or concurrent with start of $TobaccoUseScreeningUser
    - AND: Occurrence A of $TobaccoCessationIntervention starts before end of "Measurement Period"
- **Numerator Exclusions =**
    - None
- **Denominator Exceptions =**
    - OR:
        - AND: "Occurrence A of Diagnosis: Limited Life Expectancy" starts before end of "Measurement Period"
        - AND NOT: "Occurrence A of Diagnosis: Limited Life Expectancy" ends before end of "Measurement Period"
    - OR: $CounselingNotPerformed starts after or concurrent with start of $TobaccoUseScreeningUser
    - OR: $MedicationNotOrdered starts after or concurrent with start of $TobaccoUseScreeningUser
- **Stratification =**
    - None

------ **Population Criteria 3** ------

- **Initial Population =**
    - AND: Age>= 18 year(s) at: "Measurement Period"
    - AND:
        - OR: Count>= 2 : Union of:
            - "Encounter, Performed: Face-to-Face Interaction"
            - "Encounter, Performed: Health & Behavioral Assessment - Individual"
            - "Encounter, Performed: Health and Behavioral Assessment - Initial"
            - "Encounter, Performed: Health and Behavioral Assessment, Reassessment"
            - "Encounter, Performed: Home Healthcare Services"
            - "Encounter, Performed: Occupational Therapy Evaluation"
            - "Encounter, Performed: Office Visit"
            - "Encounter, Performed: Ophthalmological Services"
            - "Encounter, Performed: Psych Visit - Diagnostic Evaluation"
            - "Encounter, Performed: Psych Visit - Psychotherapy"
            - "Encounter, Performed: Psychoanalysis"
            - "Encounter, Performed: Speech and Hearing Evaluation"
            - during "Measurement Period"
        - OR: Count>= 1 : Union of:
            - "Encounter, Performed: Annual Wellness Visit"
            - "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up"
            - "Encounter, Performed: Preventive Care Services - Group Counseling"
            - "Encounter, Performed: Preventive Care Services - Other"
            - "Encounter, Performed: Preventive Care Services-Individual Counseling"
            - "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up"

- during "Measurement Period"
- **Denominator =**
  - AND: Initial Population
- **Denominator Exclusions =**
  - None
- **Numerator =**
  - AND:
    - OR: $TobaccoUseScreeningNonUser
    - OR:
      - AND: Occurrence A of $TobaccoCessationIntervention starts after or concurrent with start of $TobaccoUseScreeningUser
      - AND: Occurrence A of $TobaccoCessationIntervention starts before end of "Measurement Period"
- **Numerator Exclusions =**
  - None
- **Denominator Exceptions =**
  - OR:
    - AND: "Occurrence A of Diagnosis: Limited Life Expectancy" starts before end of "Measurement Period"
    - AND NOT: "Occurrence A of Diagnosis: Limited Life Expectancy" ends before end of "Measurement Period"
  - OR: "Assessment, Performed not done: Medical Reason" for "Tobacco Use Screening" <= 24 month(s) starts before end of "Measurement Period"
  - OR: $CounselingNotPerformed starts after or concurrent with start of $TobaccoUseScreeningUser
  - OR: $MedicationNotOrdered starts after or concurrent with start of $TobaccoUseScreeningUser
- **Stratification =**
  - None

Data Criteria (QDM Variables)

- **$TobaccoCessationIntervention =**
  - Union of:
    - "Intervention, Performed: Tobacco Use Cessation Counseling"
    - "Medication, Active: Tobacco Use Cessation Pharmacotherapy"
    - "Medication, Order: Tobacco Use Cessation Pharmacotherapy"
- **$TobaccoUseScreeningNonUser =**
  - "Assessment, Performed: Tobacco Use Screening" satisfies all:
    - Most Recent: <= 24 month(s) starts before end of "Measurement Period"
    - (result: Tobacco Non-User)
- **$CounselingNotPerformed =**
  - "Intervention, Performed not done: Medical Reason" for "Tobacco Use Cessation Counseling" starts before end of "Measurement Period"
- **$TobaccoUseScreeningUser =**
  - "Assessment, Performed: Tobacco Use Screening" satisfies all:
    - Most Recent: <= 24 month(s) starts before end of "Measurement Period"
    - (result: Tobacco User)
- **$MedicationNotOrdered =**
  - "Medication, Order not done: Medical Reason" for "Tobacco Use Cessation Pharmacotherapy" starts before end of "Measurement Period"

Data Criteria (QDM Data Elements)

- "Assessment, Performed: Tobacco Use Screening" using "Tobacco Use Screening Grouping Value Set (2.16.840.1.113883.3.526.3.1278)"
- "Assessment, Performed not done: Medical Reason" using "Medical Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1007)"
- "Diagnosis: Limited Life Expectancy" using "Limited Life Expectancy Grouping Value Set (2.16.840.1.113883.3.526.3.1259)"
- "Encounter, Performed: Annual Wellness Visit" using "Annual Wellness Visit Grouping Value Set (2.16.840.1.113883.3.526.3.1240)"
- "Encounter, Performed: Face-to-Face Interaction" using "Face-to-Face Interaction Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1048)"
- "Encounter, Performed: Health & Behavioral Assessment - Individual" using "Health & Behavioral Assessment - Individual Grouping Value Set (2.16.840.1.113883.3.526.3.1020)"
- "Encounter, Performed: Health and Behavioral Assessment - Initial" using "Health and Behavioral Assessment - Initial Grouping Value Set (2.16.840.1.113883.3.526.3.1245)"
- "Encounter, Performed: Health and Behavioral Assessment, Reassessment" using "Health and Behavioral Assessment, Reassessment Grouping Value Set (2.16.840.1.113883.3.526.3.1529)"
- "Encounter, Performed: Home Healthcare Services" using "Home Healthcare Services Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1016)"
- "Encounter, Performed: Occupational Therapy Evaluation" using "Occupational Therapy Evaluation Grouping Value Set (2.16.840.1.113883.3.526.3.1011)"
- "Encounter, Performed: Office Visit" using "Office Visit Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Ophthalmological Services" using "Ophthalmological Services Grouping Value Set (2.16.840.1.113883.3.526.3.1285)"
- "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up" using "Preventive Care Services - Established Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1025)"
- "Encounter, Performed: Preventive Care Services - Group Counseling" using "Preventive Care Services - Group Counseling Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1027)"

- "Encounter, Performed: Preventive Care Services - Other" using "Preventive Care Services - Other Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1030)"
- "Encounter, Performed: Preventive Care Services-Individual Counseling" using "Preventive Care Services-Individual Counseling Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1026)"
- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" using "Preventive Care Services-Initial Office Visit, 18 and Up Grouping Value Set (2.16.840.1.113883.3.464.1003.101.12.1023)"
- "Encounter, Performed: Psych Visit - Diagnostic Evaluation" using "Psych Visit - Diagnostic Evaluation Grouping Value Set (2.16.840.1.113883.3.526.3.1492)"
- "Encounter, Performed: Psych Visit - Psychotherapy" using "Psych Visit - Psychotherapy Grouping Value Set (2.16.840.1.113883.3.526.3.1496)"
- "Encounter, Performed: Psychoanalysis" using "Psychoanalysis Grouping Value Set (2.16.840.1.113883.3.526.3.1141)"
- "Encounter, Performed: Speech and Hearing Evaluation" using "Speech and Hearing Evaluation Grouping Value Set (2.16.840.1.113883.3.526.3.1530)"
- "Intervention, Performed: Tobacco Use Cessation Counseling" using "Tobacco Use Cessation Counseling Grouping Value Set (2.16.840.1.113883.3.526.3.509)"
- "Intervention, Performed not done: Medical Reason" using "Medical Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1007)"
- "Medication, Active: Tobacco Use Cessation Pharmacotherapy" using "Tobacco Use Cessation Pharmacotherapy Grouping Value Set (2.16.840.1.113883.3.526.3.1190)"
- "Medication, Order: Tobacco Use Cessation Pharmacotherapy" using "Tobacco Use Cessation Pharmacotherapy Grouping Value Set (2.16.840.1.113883.3.526.3.1190)"
- "Medication, Order not done: Medical Reason" using "Medical Reason Grouping Value Set (2.16.840.1.113883.3.526.3.1007)"
- Attribute: "Result: Tobacco Non-User" using "Tobacco Non-User Grouping Value Set (2.16.840.1.113883.3.526.3.1189)"
- Attribute: "Result: Tobacco User" using "Tobacco User Grouping Value Set (2.16.840.1.113883.3.526.3.1170)"

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	None