eCQM Identifier (Measure 13.0.000 154 **eCQM Version Number Authoring Tool) CBE Number** Not Applicable GUID e455fac0-f2cb-4074-a351-1e68a90fb7cf January 1, 20XX through December 31, 20XX **Measurement Period Measure Steward** National Committee for Quality Assurance Measure Developer National Committee for Quality Assurance **Endorsed By** None Percentage of episodes for patients 3 months of age and older with a diagnosis of upper respiratory infection (URI) that did not result in Description an antibiotic order This Physician Performance Measure (Measure) and related data specifications are owned and were developed by the National Committee for Quality Assurance (NCQA). NCQA is not responsible for any use of the Measure. NCQA makes no representations, warranties, or endorsement about the quality of any organization or physician that uses or reports performance measures and NCQA has no liability to anyone who relies on such measures or specifications. 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"HL7" is the registered trademark of Health Level Seven International. The performance Measure is not a clinical guideline and does not establish a standard of medical care, and has not been tested for all potential applications. THE MEASURE AND SPECIFICATIONS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. Disclaimer Due to technical limitations, registered trademarks are indicated by (R) or [R] and unregistered trademarks are indicated by (TM) or [TM]. **Measure Scoring** Proportion Measure Type **Process** - 3 months-17 years Stratification - 18-64 years 65 years and older Risk Adjustment None **Rate Aggregation** None Most URI, also known as the common cold, are caused by viruses that require no antibiotic treatment. Too often, antibiotics are prescribed inappropriately, which can lead to antibiotic resistance (when antibiotics can no longer cure bacterial infections). In the Rationale United States, at least 2.8 million antibiotic-resistant illnesses and 35,000 deaths occur each year (Centers for Disease Control and Prevention [CDC], 2020). American Family Physician (Fashner, Ericson, & Werner, 2012) - Antibiotics should not be used for the treatment of cold symptoms in children or adults. (A) - Nonsteroidal anti-inflammatory drugs reduce pain secondary to upper respiratory tract infection in adults. (A) **Clinical Recommendation** - Decongestants, antihistamine/decongestant combinations, and intranasal ipratropium (Atrovent) may improve cold symptoms in adults. (B) Institute for Clinical Systems Improvement (ICSI) (Short et al., 2017) The ICSI work group does not recommend antibiotics for treatment of common cold symptoms in children and adults. Improvement Notation Higher score indicates better quality Reference Type: CITATION Reference 'Centers for Disease Control and Prevention, (2020), Be https://www.cdc.gov/patientsafety/features/be-antibiotics-aware.html' Reference Type: CITATION Reference Reference Text: 'Fashner, J., Ericson, K., & Werner, S. (2012), Treatment of the Common Cold in Children and Adults, American Family Physician, 86(2), 153-159. Reference Type: JUSTIFICATION Reference Reference Text: 'Harris, A.M., Hicks, L.A., & Qaseem, A. (2016.) Appropriate Antibiotic Use for Acute Respiratory Tract Infection in Adults: Advice for High-Value Care from the American College of Physicians and the Centers for Disease Control and Prevention. Ann Intern Med. 164(6),425-434. Reference Type: CITATION Reference Text: 'Short, S., Bashir, H., Marshall, P., Miller, N., Olmschenk, D., Prigge, K., & Solyntjes, L. (2017). Institute for Clinical Reference Systems Improvement. Diagnosis and Treatment of Respiratory Illness in Children and Adults. Updated September 2017. Retrieved from https://www.icsi.org/wp-content/uploads/2019/01/Resplllness.pdf.' Definition None This is an episode of care measure that examines all eligible episodes for the patient. This eCQM is an episode-based measure. An episode is defined as each eligible encounter for patients aged 3 months of age and Guidance older with a diagnosis of upper respiratory infection from January 1 to December 28 of the measurement period. This version of the eCQM uses QDM version 5.6. Please refer to the eCQI resource center (https://ecqi.healthit.gov/qdm) for more information on the QDM. TBD **Transmission Format** Outpatient visits, telephone visits, virtual encounter (i.e., e-visit or virtual check-in), or emergency department visits with a diagnosis of **Initial Population** URI from January 1 to December 28 of the measurement period for patients 3 months of age and older Denominator **Equals Initial Population** Exclude URI episodes when the patient had hospice care for any part of the measurement period. Exclude URI episodes when the patient had a comorbid condition during the 12 months prior to or on the episode date. **Denominator Exclusions** Exclude URI episodes where the patient is taking antibiotics in the 30 days prior to the episode date. Exclude URI episodes where the patient had competing diagnosis on or three days after the episode date. URI episodes without a prescription for antibiotic medication on or three days after the outpatient visit, telephone visit, virtual encounter, Numerator or emergency department visit for an upper respiratory infection **Numerator Exclusions** Not Applicable **Denominator Exceptions** None **Supplemental Data Elements** For every patient evaluated by this measure also identify payer, race, ethnicity and sex **Table of Contents** Population Criteria **Definitions** Data Criteria (QDM Data Elements) Supplemental Data Elements Risk Adjustment Variables **Population Criteria ▲** Initial Population "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInMonthsAt(date from start of "Measurement Period") >= 3 return EncounterWithURI Denominator "Initial Population" ▲ Denominator Exclusions "Encounters and Assessments with Hospice Patient" union "Encounter with Comorbid Condition for Upper Respiratory Infection Prior" union "Encounter with Upper Respiratory Infection and Antibiotics Active In 30 Days Prior to the Episode Date" union "Encounter with Competing Diagnosis for Upper Respiratory Infection" Numerator "Encounter with Upper Respiratory Infection" EncounterWithURI without ["Medication, Order": "Antibiotic Medications for Upper Respiratory Infection"] OrderedAntibiotic such that OrderedAntibiotic.authorDatetime 3 days or less on or after start of EncounterWithURI.relevantPeriod return EncounterWithURI ▲ Numerator Exclusions ▲ Denominator Exceptions None ▲ Stratification 1 "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInMonthsAt(date from start of "Measurement Period") >= 3 and AgeInYearsAt(date from start of "Measurement Period") <= 17 return EncounterWithURI ▲ Stratification 2 "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInYearsAt(date from start of "Measurement Period") in Interval[18, 64] return EncounterWithURI ■ Stratification 3 "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInYearsAt(date from start of "Measurement Period") >= 65 return EncounterWithURI **Definitions** Denominator "Initial Population" ▲ Denominator Exclusions "Encounters and Assessments with Hospice Patient" union "Encounter with Comorbid Condition for Upper Respiratory Infection Prior" union "Encounter with Upper Respiratory Infection and Antibiotics Active In 30 Days Prior to the Episode Date" union "Encounter with Competing Diagnosis for Upper Respiratory Infection" ▲ Encounter with Comorbid Condition for Upper Respiratory Infection Prior ( "Encounter with Upper Respiratory Infection" EncounterWithURI  $with \ ["Diagnosis": "Comorbid Conditions for Respiratory Conditions"] \ Comorbid Condition\\$ such that start of ComorbidCondition.prevalencePeriod in day of Interval[start of EncounterWithURI.relevantPeriod - 1 year, start of EncounterWithURI.relevantPeriod] return EncounterWithURI ▲ Encounter with Competing Diagnosis for Upper Respiratory Infection ( "Encounter with Upper Respiratory Infection" EncounterWithURI with ( ["Diagnosis": "Competing Conditions for Respiratory Conditions"] union ["Diagnosis": "Acute Pharyngitis"] union ["Diagnosis": "Acute Tonsillitis"] ) Competing Diagnosis such that Competing Diagnosis. prevalence Period starts 3 days or less on or after day of start of Encounter With URI. relevant Period return EncounterWithURI **▲** Encounter with Upper Respiratory Infection "Qualifying Encounters" QualifyingEncounters. ["Diagnosis": "Upper Respiratory Infection"] URI where URI.prevalencePeriod starts during day of QualifyingEncounters.relevantPeriod or URI.prevalencePeriod overlaps before QualifyingEncounters.relevantPeriod return QualifyingEncounters ■ Encounter with Upper Respiratory Infection and Antibiotics Active In 30 Days Prior to the Episode Date "Encounter with Upper Respiratory Infection" EncounterWithURI with ["Medication, Active": "Antibiotic Medications for Upper Respiratory Infection"] ActiveAntibiotic such that ( Global. "NormalizeInterval" ( ActiveAntibiotic relevantDatetime, ActiveAntibiotic relevantPeriod ) overlaps day of Interval[start of EncounterWithURI.relevantPeriod - 30 days, start of EncounterWithURI.relevantPeriod - 1 day]) return EncounterWithURI ▲ Encounters and Assessments with Hospice Patient "Initial Population" InitialPopulation where Hospice "Has Hospice Services" ▲ Hospice.Has Hospice Services exists ( ["Encounter, Performed": "Encounter Inpatient"] InpatientEncounter where ( InpatientEncounter.dischargeDisposition ~ "Discharge to home for hospice care (procedure)" or InpatientEncounter.dischargeDisposition ~ "Discharge to healthcare facility for hospice care (procedure)" and InpatientEncounter.relevantPeriod ends during day of "Measurement Period" or exists ( ["Encounter, Performed": "Hospice Encounter"] HospiceEncounter where HospiceEncounter.relevantPeriod overlaps day of "Measurement Period" or exists ( ["Assessment, Performed": "Hospice care [Minimum Data Set]"] HospiceAssessment where HospiceAssessment.result ~ "Yes (qualifier value)" and Global."NormalizeInterval" (HospiceAssessment.relevantDatetime, HospiceAssessment.relevantPeriod) overlaps day of "Measurement Period" or exists ( ["Intervention, Order": "Hospice Care Ambulatory"] HospiceOrder where HospiceOrder.authorDatetime during day of "Measurement Period" or exists ( ["Intervention, Performed": "Hospice Care Ambulatory"] HospicePerformed where Global."NormalizeInterval" (HospicePerformed.relevantDatetime, HospicePerformed.relevantPeriod) overlaps day of "Measurement Period" or exists ( ["Diagnosis": "Hospice Diagnosis"] HospiceCareDiagnosis where HospiceCareDiagnosis.prevalencePeriod overlaps day of "Measurement Period" ▲ Initial Population "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInMonthsAt(date from start of "Measurement Period") >= 3 return EncounterWithURI ▲ Numerator "Encounter with Upper Respiratory Infection" EncounterWithURI without ["Medication, Order": "Antibiotic Medications for Upper Respiratory Infection"] OrderedAntibiotic such that OrderedAntibiotic.authorDatetime 3 days or less on or after start of EncounterWithURI.relevantPeriod **▲ Qualifying Encounters** ( ["Encounter, Performed": "Emergency Department Evaluation and Management Visit"] union ["Encounter, Performed": "Home Healthcare Services"] union ["Encounter, Performed": "Medical Disability Exam"] union ["Encounter, Performed": "Office Visit"] union ["Encounter, Performed": "Outpatient Consultation"] union ["Encounter, Performed": "Preventive Care Services Group Counseling"] union ["Encounter, Performed": "Preventive Care Services Individual Counseling"] union ["Encounter, Performed": "Preventive Care Services, Initial Office Visit, 0 to 17"] union ["Encounter, Performed": "Preventive Care, Established Office Visit, 0 to 17"] union ["Encounter, Performed": "Preventive Care Services Established Office Visit, 18 and Up"] union ["Encounter, Performed": "Preventive Care Services Initial Office Visit, 18 and Up"] union ["Encounter, Performed": "Telephone Visits"] union ["Encounter, Performed": "Virtual Encounter"] union ["Encounter, Performed": "Unlisted preventive medicine service"] ) ValidEncounters where ValidEncounters.relevantPeriod ends during day of Interval[start of "Measurement Period", end of "Measurement Period" - 3 days] ■ SDE Ethnicity ["Patient Characteristic Ethnicity": "Ethnicity"] **▲ SDE Payer** ["Patient Characteristic Payer": "Payer Type"] ▲ SDE Race ["Patient Characteristic Race": "Race"] ▲ SDE Sex ["Patient Characteristic Sex": "ONC Administrative Sex"] ▲ Stratification 1 "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInMonthsAt(date from start of "Measurement Period") >= 3 and AgeInYearsAt(date from start of "Measurement Period") <= 17 return EncounterWithURI ▲ Stratification 2 "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInYearsAt(date from start of "Measurement Period") in Interval[18, 64] return EncounterWithURI ▲ Stratification 3 "Encounter with Upper Respiratory Infection" EncounterWithURI where AgeInYearsAt(date from start of "Measurement Period") >= 65 return EncounterWithURI **Functions** ▲ Global.NormalizeInterval(pointInTime DateTime, period Interval<DateTime>) if pointInTime is not null then Interval[pointInTime, pointInTime] else if period is not null then period else null as Interval<DateTime> **Terminology** code "Discharge to healthcare facility for hospice care (procedure)" ("SNOMEDCT Code (428371000124100)") code "Discharge to home for hospice care (procedure)" ("SNOMEDCT Code (428361000124107)") code "Hospice care [Minimum Data Set]" ("LOINC Code (45755-6)") code "Unlisted preventive medicine service" ("CPT Code (99429)") code "Yes (qualifier value)" ("SNOMEDCT Code (373066001)") valueset "Acute Pharyngitis" (2.16.840.1.113883.3.464.1003.102.12.1011) valueset "Acute Tonsillitis" (2.16.840.1.113883.3.464.1003.102.12.1012) valueset "Antibiotic Medications for Upper Respiratory Infection" (2.16.840.1.113883.3.464.1003.1190) valueset "Comorbid Conditions for Respiratory Conditions" (2.16.840.1.113883.3.464.1003.102.12.1025) valueset "Competing Conditions for Respiratory Conditions" (2.16.840.1.113883.3.464.1003.102.12.1017) valueset "Emergency Department Evaluation and Management Visit" (2.16.840.1.113883.3.464.1003.101.12.1010) valueset "Encounter Inpatient" (2.16.840.1.113883.3.666.5.307) valueset "Ethnicity" (2.16.840.1.114222.4.11.837) valueset "Home Healthcare Services" (2.16.840.1.113883.3.464.1003.101.12.1016) valueset "Hospice Care Ambulatory" (2.16.840.1.113883.3.526.3.1584) valueset "Hospice Diagnosis" (2.16.840.1.113883.3.464.1003.1165) valueset "Hospice Encounter" (2.16.840.1.113883.3.464.1003.1003) valueset "Medical Disability Exam" (2.16.840.1.113883.3.464.1003.101.12.1073) valueset "Office Visit" (2.16.840.1.113883.3.464.1003.101.12.1001) valueset "ONC Administrative Sex" (2.16.840.1.113762.1.4.1) valueset "Outpatient Consultation" (2.16.840.1.113883.3.464.1003.101.12.1008) valueset "Payer Type" (2.16.840.1.114222.4.11.3591) valueset "Preventive Care Services Established Office Visit, 18 and Up" (2.16.840.1.113883.3.464.1003.101.12.1025) valueset "Preventive Care Services Group Counseling" (2.16.840.1.113883.3.464.1003.101.12.1027) valueset "Preventive Care Services Individual Counseling" (2.16.840.1.113883.3.464.1003.101.12.1026) valueset "Preventive Care Services Initial Office Visit, 18 and Up" (2.16.840.1.113883.3.464.1003.101.12.1023) valueset "Preventive Care Services, Initial Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1022) valueset "Preventive Care, Established Office Visit, 0 to 17" (2.16.840.1.113883.3.464.1003.101.12.1024) valueset "Race" (2.16.840.1.114222.4.11.836) valueset "Telephone Visits" (2.16.840.1.113883.3.464.1003.101.12.1080) valueset "Upper Respiratory Infection" (2.16.840.1.113883.3.464.1003.102.12.1022) valueset "Virtual Encounter" (2.16.840.1.113883.3.464.1003.101.12.1089) **Data Criteria (QDM Data Elements)** "Assessment, Performed: Hospice care [Minimum Data Set]" using "Hospice care [Minimum Data Set] (LOINC Code 45755-6)"

Diagnosis: Acute Pharyngitis" using "Acute Pharyngitis (2.16.840.1.113883.3.464.1003.102.12.1011)"

"Diagnosis: Acute Tonsillitis" using "Acute Tonsillitis (2.16.840.1.113883.3.464.1003.102.12.1012)"

"Diagnosis: Comorbid Conditions for Respiratory Conditions" using "Comorbid Conditions for Respiratory Conditions (2.16.840.1.113883.3.464.1003.102.12.1017)"

"Diagnosis: Hospice Diagnosis" using "Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165)"

"Diagnosis: Upper Respiratory Infection" using "Upper Respiratory Infection (2.16.840.1.113883.3.464.1003.102.12.1022)"

"Encounter, Performed: Emergency Department Evaluation and Management Visit" using "Emergency Department Evaluation and Management Visit (2.16.840.1.113883.3.464.1003.101.12.1010)"

"Encounter, Performed: Home Healthcare Services" using "Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016)"

"Encounter, Performed: Home Healthcare Services "using "Hospice Encounter (2.16.840.1.113883.3.464.1003.101.12.1016)"

"Encounter, Performed: Medical Disability Exam" using "Medical Disability Exam" using "Medical Disability Exam" using "Medical Disability Exam" using "Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001)"

"Encounter, Performed: Office Visit" using "Office Visit (2.16.840.1.113883.3.464.1003.101.12.1008)"

"Encounter, Performed: Preventive Care Services Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1008)"

"Encounter, Performed: Preventive Care Services Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025)"

"Encounter, Performed: Preventive Care Services Group Counseling" using "Preventive Care Services Group Counseling (2.16.840.1.113883.3.464.1003.101.12.1027)" (2.16.840.1.113883.3.464.1003.101.12.1025)"
"Encounter, Performed: Preventive Care Services Group Counseling" using "Preventive Care Services Group Counseling (2.16.840.1.113883.3.464.1003.101.12.1027)"
"Encounter, Performed: Preventive Care Services Individual Counseling" using "Preventive Care Services Individual Counseling (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 (2.16.840.1.113883.3.464.1003.101.12.1023)"
"Encounter, Performed: Preventive Care Services, Initial Office Visit, 0 to 17" using "Preventive Care Services, Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022)"
"Encounter, Performed: Preventive Care, Established Office Visit, 0 to 17" using "Preventive Care, Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022)"
"Encounter, Performed: Telephone Visits" using "Telephone Visits (2.16.840.1.113883.3.464.1003.101.12.1080)"
"Encounter, Performed: Unlisted preventive medicine service" using "Unitsed preventive medicine service (CPT Code 99429)"
"Encounter, Performed: Virtual Encounter" using "Virtual Encounter (2.16.840.1.113883.3.464.1003.101.12.1089)"
"Intervention, Order: Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
"Medication, Active: Antibiotic Medications for Upper Respiratory Infection" using "Antibiotic Medications for Upper Respiratory Infection (2.16.840.1.113883.3.464.1003.1190)"
"Patient Characteristic Ethnicity: Ethnicity" using "Payer Type (2.16.840.1.114222.4.11.837)"
"Patient Characteristic Payer: Payer Type" using "Payer Type (2.16.840.1.114222.4.11.3591)"
"Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)" "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)" **Supplemental Data Elements** ■ SDE Ethnicity ["Patient Characteristic Ethnicity": "Ethnicity"] ▲ SDE Payer ["Patient Characteristic Payer": "Payer Type"] ▲ SDE Race ["Patient Characteristic Race": "Race"] ▲ SDE Sex ["Patient Characteristic Sex": "ONC Administrative Sex"] Risk Adjustment Variables

None

None

**Measure Set** 

**Appropriate Treatment for Upper Respiratory Infection (URI)** 

eCQM Title