

INHALE Measures: Denominator and Numerator Criteria by Population



Denominator and numerator counts may vary across specific measures due to inclusion criteria such as age, enrollment, anchor month, or other measure-specific criteria.

QUALITY MEASURES

- 1.) All patients included in the denominator for INHALE Quality Measures meet the following criteria:
 - *Commercial and Medicare Advantage patients;
 - *Continuous enrollment during the measurement year with no more than 30-day gap and must be enrolled in month 12.
- 2.) Excluded -- Hospice, Palliative, or Expired (HPE) patients.
- 3.) Additional criteria for inclusion in each Quality Measure denominator and numerator are listed below.

Tobacco Cessation

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients, regardless of severity, who are diagnosed as tobacco users in the measurement year and are 19 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of Adult Asthma patients who are diagnosed as tobacco users and have at least 1 claim for tobacco cessation counseling in the measurement year.	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients, regardless of severity, who are diagnosed as tobacco users in the measurement year and who are at least 13 years of age to less than 19 years of age as of the first day of the measurement year.	
Numerator	Claims/Events	The count of Pediatric Asthma patients who are diagnosed as being a tobacco user who have at least 1 claim for tobacco cessation counseling in the measurement year.	
COPD			
Denominator	Patients	The count of COPD patients who are diagnosed as being tobacco users in the measurement year and are 40 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of COPD patients who are diagnosed as being tobacco users who have at least 1 claim for tobacco cessation counseling in the measurement year.	

Inhaler Education

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients in the measurement year, who are 19 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of unique Adult Asthma patients with at least 1 claim for inhaler education billing code CPT 94664 in the measurement year.	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients in the measurement year, who meet the following criteria who are at least 2 years of age to less than 19 years of age as of the first day of the measurement year.	
Numerator	Claims/Events	The count of unique Pediatric Asthma patients with at least 1 claim for inhaler education billing code CPT 94664 in the measurement year.	
COPD			
Denominator	Patients	The count of COPD patients in the measurement year, who are 40 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of COPD patients who have at least 1 claim for inhaler education billing code CPT 94664 in the measurement year.	

Spirometry

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients in the measurement year who are 19 years and older as of the first day of the measurement year and who were enrolled in the current AND prior year.	
Numerator	Claims/Events	The count of unique Adult Asthma patients with at least 1 spirometry claim within the measurement year or the year prior.	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients in the measurement year, who are at least 5 years of age to less than 19 years of age as of the first day of the measurement year and who were enrolled in the current AND prior year.	
Numerator	Claims/Events	The count of unique Pediatric Asthma patients with at least 1 spirometry claim within the measurement year or the year prior.	
COPD			
Denominator	Patients	The count of COPD patients in the measurement year, who are 40 years and older as of the first day of the measurement year and who were enrolled in the current AND prior year.	
Numerator	Claims/Events	The count of unique COPD patients with at least 1 spirometry claim within the measurement year or the year prior.	

UTILIZATION MEASURES

- 1.) Utilization measures are calculated following the HEDIS rollup guidelines to the most significant outcome of the episode of care that occurs within 24 hours. This occurs in order from least to most: Urgent Care, Emergency, Observation, Inpatient stay. HEDIS General Guideline 44, ED and Observation Visits that result in an Inpatient Stay: When an ED or observation visit and an inpatient stay are billed on separate claims, the visit results in an inpatient stay when the ED/observation date of service occurs on the day prior to the admission date or any time during the admission (admission date through discharge date). An ED or observation visit billed on the same claim as an inpatient stay is considered a visit that resulted in an inpatient stay.
- 2.) Excluded -- utilization claims that occur the DAY AFTER the first day the patient has occurrence of Palliative Care, Hospice, or Expired (HPE).
- 3.) Additional criteria for inclusion in each Utilization Measure denominator are listed below.

Emergency Department

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients in the measurement year who are 19 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of unique Adult Asthma patients with 1 or more ED visits with (a) a primary diagnosis of Asthma, regardless of severity, or (b) a secondary diagnosis of Asthma exacerbation.	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients in the measurement year who are 2 years to less than 19 years of age as of the first day of the measurement year.	
Numerator	Claims/Events	The count of unique Pediatric Asthma patients who have 1 or more ED visits with (a) a primary diagnosis of Asthma, regardless of severity, or (b) a secondary diagnosis of Asthma exacerbation.	
COPD			
Denominator	Patients	The count of COPD patients in the measurement year who are 40 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of unique COPD patients who have 1 or more ED visits with (a) a primary diagnosis of COPD, or (b) a secondary diagnosis of COPD exacerbation in the measurement year.	

Hospitalization

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients in the measurement year who are 19 years and older as of the first day of the measurement year.	
Numerator	Claims/Events	The count of unique patients who have 1 or more Inpatient Hospitalizations with (a) a primary diagnosis of Asthma, regardless of severity, or (b) a secondary diagnosis of Asthma exacerbation.	

Asthma - Pediatric	Denominator	Patients	The count of Pediatric Asthma patients in the measurement year who are 2 years to less than 19 years of age as of the first day of the measurement year.
	Numerator	Claims/Events	The count of unique Pediatric Asthma patients who have 1 or more Inpatient Hospitalizations with (a) a primary diagnosis of Asthma, regardless of severity, or (b) a secondary diagnosis of Asthma exacerbation.
COPD	Denominator	Patients	The count of COPD patients in the measurement year who are 40 years and older as of the first day of the measurement year.
	Numerator	Claims/Events	The count of unique COPD patients who have 1 or more inpatient hospitalizations with (a) a primary diagnosis of COPD, or (b) a secondary diagnosis of COPD exacerbation in the measurement year.
Observation			
Asthma - Adult	Denominator	Patients	The count of Adult Asthma patients in the measurement year who are 19 years and older as of the first day of the measurement year.
	Numerator	Claims/Events	The count of unique Adult Asthma patients who have 1 or more Observation stays with (a) a primary diagnosis of Asthma, regardless of severity, (b) a secondary diagnosis of Asthma exacerbation in the measurement year.
Asthma - Pediatric	Denominator	Patients	The count of Pediatric Asthma patients in the measurement year who are 2 years to less than 19 years of age as of the first day of the measurement year.
	Numerator	Claims/Events	The count of unique Pediatric Asthma patients who have 1 or more Observation stays with (a) a primary diagnosis of Asthma, regardless of severity, or (b) a secondary diagnosis of Asthma exacerbation in the measurement year.
COPD	Denominator	Patients	The count of COPD patients in the measurement year who 40 years and older as of the first day of the measurement year.
	Numerator	Claims/Events	The count of unique COPD patients who have 1 or more observation stays with (a) a primary diagnosis of COPD, or (b) a primary diagnosis of acute respiratory failure and secondary diagnosis of COPD exacerbation (for the same visit) in the measurement year.

MEDICATION RESULTS

- 1.) All patients included in the denominator for INHALE Medication Results meet the following criteria:
 - *Commercial and Medicare Advantage patients;
 - *Continuous enrollment during the measurement year with no more than 30-day gap and must be enrolled in month 12.
- 2.) Excluded -- Hospice, Palliative, or Expired (HPE) patients.
- 3.) Additional criteria for inclusion in each Medication Results denominator and numerator are listed below.

Maintenance Inhaler

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients who are 19 years and older as of the first day of the measurement year with a paid pharmacy claim for any prescription in the measurement year and with either (A) 2 or more OCS medication fills or (B) at least 1 inpatient hospitalization, observation, or ED visit in the measurement year that meets the utilization diagnosis criteria. Please see the Observation, Hospitalization, or Emergency Department measure details to identify the diagnoses required for each condition. Patients with conditions known to be associated with chronic OCS are excluded from qualifying through criterion A.	
Numerator	Claims/Events	The count of Adult Asthma patients who are 19 years and older as of the first day of the measurement year with at least 1 positive ICS inhaled medication dispensed in the measurement year. This can include ICS containing inhalers alone or in combination therapies such as ICS/LABA or ICS/LABA/LAMA (triple therapy).	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients who are 5 years to less than 19 years of age as of the first day of the measurement year with a paid pharmacy claim for any prescription in the measurement year and with either (A) 2 or more OCS medication fills or (B) at least 1 inpatient hospitalization, observation, or ED visit in the measurement year that meets the utilization diagnosis criteria. Please see the Observation, Hospitalization, or Emergency Department measure details to identify the diagnoses required for each condition. Patients with conditions known to be associated with chronic OCS are excluded from qualifying through criterion A.	
Numerator	Claims/Events	The count of Pediatric Asthma patients who are 5 years to less than 19 years of age as of the first day of the measurement year with at least 1 positive ICS inhaled medication dispensed in the measurement year. This can include ICS containing inhalers alone or in combination therapies such as ICS/LABA or ICS/LABA/LAMA (triple therapy).	

COPD

Denominator	Patients	The count of COPD patients who are 40 years and older as of the first day of the measurement year with a paid pharmacy claim for any prescription in the measurement year and with either (A) 2 or more OCS medication fills or (B) at least 1 inpatient hospitalization, observation, or ED visit in the measurement year that meets the utilization diagnosis criteria. Please see the Observation, Hospitalization, or Emergency Department measure details to identify the diagnoses required for each condition. Patients with conditions known to be associated with chronic OCS are excluded from qualifying through criterion A.
Numerator	Claims/Events	The count of COPD patients with at least one positive long-acting beta2-agonists (LABA)-containing AND at least 1 positive long-acting muscarinic antagonists (LAMA) containing medication fill(s) during the year. A single fill of any combined LAMA/LABA medication or triple therapy medication also meets this criterion. (Fills that count can be a LABA/LAMA single inhaler, an ICS/LABA/LAMA (triple therapy, e.g. Trelegy), individual LABA + separate individual LAMA medications, or an individual ICS/LABA + separate individual LAMA.). Note that if the patient gets a LABA medication and a separate LAMA medication, they do NOT have to be filled on the same day to count. When a patient has separate LAMA and LABA medication fills on different days, the date shown in the patient detail will be the most recent date either medication was filled.

OCS Fills

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients, regardless of severity, with a paid pharmacy claim for any prescription in the measurement year who are 19 years and older as of the first day of the measurement year. Excluded -- patients with conditions known to be associated with chronic OCS.	
Numerator	Claims/Events	The count of Adult Asthma patients, regardless of severity, in denominator with 0, 1 or 2+ OCS medication claims in the measurement year.	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients, regardless of severity, with a paid pharmacy claim for any prescription in the measurement year who are 2 to less than 19 years as of the first day of the measurement year. Excluded -- patients with conditions known to be associated with chronic OCS.	
Numerator	Claims/Events	The count of Pediatric Asthma patients, regardless of severity, in denominator with 0, 1 or 2+ OCS medication claims in the measurement year.	
COPD			
Denominator	Patients	The count of COPD patients with a paid pharmacy claim for any prescription in the measurement year who are ages 40 years and older as of the first day of the measurement year. Excluded -- patients with conditions known to be associated with chronic OCS.	
Numerator	Claims/Events	The count of COPD patients in denominator with 0, 1 or 2+ OCS medication claims in the measurement year.	

SABA

Asthma - Adult			
Denominator	Patients	The count of Adult Asthma patients ages 19 and older who had a paid prescription claim for any prescription in the measurement year.	
Numerator	Claims/Events	The count of patients who are identified in the denominator, and are categorized as having SABA inhaler medication(s) filled 0-2, 3-5, or 6+ times total in the measurement year.	
Asthma - Pediatric			
Denominator	Patients	The count of Pediatric Asthma patients ages 5 to less than 19 years who had a paid prescription claim for any prescription in the measurement year.	
Numerator	Claims/Events	The count of patients who are identified in the denominator, and are categorized as having SABA inhaler medication(s) filled 0-2, 3-5, or 6+ times total in the measurement year.	
COPD			
Denominator	Patients	The count of COPD patients ages 40 and older who had a paid prescription claim for any prescription in the measurement year.	
Numerator	Claims/Events	The count of patients who are identified in the denominator, and are categorized as having SABA inhaler medication(s) filled 0-2, 3-5, or 6+ times total in the measurement year.	