

## Quality ID #52: Chronic Obstructive Pulmonary Disease (COPD): Spirometry Evaluation and Long-Acting Inhaled Bronchodilator Therapy

### 2024 COLLECTION TYPE: MIPS CLINICAL QUALITY MEASURES (CQMS)

### MEASURE TYPE: Process

**DESCRIPTION:**  
Percentage of patients aged 18 years and older with a diagnosis of COPD with a documented FEV1/FVC < 70% measured by spirometry, who are symptomatic, and were prescribed a long-acting inhaled bronchodilator.

**INSTRUCTIONS:**  
This measure is to be submitted a minimum of **once per performance period** for all COPD patients seen during the performance period. This measure may be submitted by Merit-based Incentive Payment System (MIPS) eligible clinicians who perform the quality actions described in the measure based on the services provided and the measure-specific denominator coding.

### **This measure will be calculated with 2 performance rates:**

- 1) Percentage of patients aged 18 years and older with a diagnosis of COPD who have a documented airflow obstruction (FEV1/FVC < 70%) as measured by spirometry.
- 2) Percentage of patients aged 18 years and older with a diagnosis of COPD who have documented airflow obstruction (FEV1/FVC < 70%) and are symptomatic, who were prescribed a long acting inhaled bronchodilator.

Submission of the two performance rates is required for this measure. A simple average, which is the sum of the performance rates divided by the number of the performance rates will be used to calculate performance.

### **Measure Submission Type:**

Measure data may be submitted by individual MIPS eligible clinicians, groups, or third-party intermediaries. The listed denominator criteria are used to identify the intended patient population. The numerator options included in this specification are used to submit the quality actions as allowed by the measure. The quality data codes listed do not need to be submitted by MIPS eligible clinicians, groups, or third-party intermediaries that utilize this modality for submissions; however, these codes may be submitted for those third-party intermediaries that utilize Medicare Part B claims data. For more information regarding Application Programming Interface (API), please refer to the Quality Payment Program (QPP) website.

### **THERE ARE TWO SUBMISSION CRITERIA FOR THIS MEASURE:**

- 1) Patients diagnosed with COPD who have documented airflow obstruction (FEV1/FVC < 70%) as measured by spirometry in the medical record.
- 2) Patients diagnosed with COPD who have documented airflow obstruction (FEV1/FVC < 70%) and are symptomatic, who were prescribed a long acting bronchodilator.

This measure contains two submission criteria which together ensure that the proper evaluation and treatment is provided for patients with COPD and that patients without COPD are not provided inappropriate therapy. Submission Criteria 1 evaluates whether spirometry was performed for patients diagnosed with COPD and results confirming airflow obstruction are documented. Submission Criteria 2 evaluates whether a long-acting inhaled bronchodilator was prescribed for COPD patients who have symptoms.

**DENOMINATOR (SUBMISSION CRITERIA 1):**

All patients aged 18 and older with a diagnosis of COPD

**Denominator Criteria (Eligible Cases):**

Patients aged  $\geq 18$  years on date of encounter

**AND**

**Diagnosis for COPD (ICD-10-CM):** J41.0, J41.1, J41.8, J42, J43.0, J43.1, J43.2, J43.8, J43.9, J44.0, J44.1, J44.89, J44.9

**AND**

**Patient encounter during the performance period (CPT):** 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215, 99424, 99426

**WITHOUT**

**Telehealth Modifier (including but not limited to):** GQ, GT, 95, POS 02, POS 10

**NUMERATOR (SUBMISSION CRITERIA 1):**

Patients with documented spirometry and confirmed airflow obstruction (FEV1/FVC < 70%)

**Numerator Instructions:**

Documentation of spirometry results of (FEV1/FVC < 70%) can take place before the performance period. The intent of Submission Criteria 1 is to ensure accurate diagnosis of COPD in patients with respiratory symptoms such as dyspnea, chronic cough or sputum production, and/or a history of exposure to risk factors for the disease is appropriate by having documentation of spirometry results of FEV1/FVC < 70%, which is required to make the COPD diagnosis.

**NUMERATOR NOTE:** Denominator Exception(s) are determined on the date of the denominator eligible encounter. If there is a diagnosis of COPD, but there is no documented spirometry within five years of the date of the encounter, and the current spirometry result is  $\geq 70\%$ , an exception may be reported.

**Numerator Options:**

**Performance Met:**

Spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and reviewed (**M1214**)

**OR**

**Denominator Exception:**

Documentation of medical reason(s) for not documenting and reviewing spirometry results (e.g., patients with dementia or tracheostomy) (**M1215**)

**OR**

**Denominator Exception:**

No history of spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) and present spirometry is  $\geq 70\%$  (**M1213**)

**OR**

**Denominator Exception:**

Documentation of system reason(s) for not documenting and reviewing spirometry results (e.g., spirometry equipment not available at the time of the encounter) (**M1217**)

**OR**

**Performance Not Met:**

No spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and/or no spirometry performed with results documented during the encounter (**M1216**)

**DENOMINATOR (SUBMISSION CRITERIA 2):**

All patients aged 18 years and older with a diagnosis of COPD with spirometry results documented (FEV1/FVC < 70%), and have symptoms (e.g., dyspnea, cough/sputum, wheezing)

**Denominator Criteria (Eligible Cases):**

Patients aged  $\geq 18$  years on date of encounter

**AND**

**Diagnosis for COPD (ICD-10-CM):** J41.0, J41.1, J41.8, J42, J43.0, J43.1, J43.2, J43.8, J43.9, J44.0, J44.1, J44.89, J44.9

**AND**

**Patient encounter during the performance period (CPT):** 99202, 99203, 99204, 99205, 99212, 99213, 99214, 99215, 99424, 99426

**WITHOUT**

**Telehealth Modifier (including but not limited to):** GQ, GT, 95, POS 02, POS 10

**AND**

**Spirometry results documented (FEV1/FVC < 70%):** G8924

**AND**

**Patient has COPD symptoms (e.g., dyspnea, cough/sputum, wheezing):** M1218

**NUMERATOR (SUBMISSION CRITERIA 2):**

Symptomatic COPD patients who were prescribed a long-acting inhaled bronchodilator

**Definition:**

**Prescribed** – Includes patients who were “prescribed” medication at an encounter during the performance period, even if the prescription for that medication was ordered prior to the encounter.

**NUMERATOR NOTE:** Denominator Exception(s) are determined on the date of the denominator eligible encounter.

**Numerator Options:**

**OR**

**Performance Met:** Long-acting inhaled bronchodilator prescribed (**G9695**)

**Denominator Exception:** Documentation of medical reason(s) for not prescribing a long-acting inhaled bronchodilator (e.g., patient intolerance or history of side effects) (**G9696**)

**OR**

**Denominator Exception:** Documentation of system reason(s) for not prescribing a long-acting inhaled bronchodilator (e.g., cost of treatment or lack of insurance) (**G9698**)

**OR**

**Performance Not Met:** Long-acting inhaled bronchodilator not prescribed, reason not otherwise specified (**G9699**)

**RATIONALE:**

Despite major efforts to broadly disseminate the Global Initiative for Chronic Obstructive Lung Disease (GOLD) guidelines and use of COPD performance measures across different specialty societies, diagnosis and management of COPD, and specifically prescription for long-acting inhaled bronchodilators, remains suboptimal.

Although spirometry use has increased, it remains underutilized to confirm airflow obstruction and accurately diagnose COPD (CDC, 2012; Nishi et al., 2013; Rodwin et al., 2022). Studies show proper COPD diagnosis with spirometry is done on just over half of patients in the US and Canada (Boulet et al., 2013; Bourbeau et al., 2008; Collins et al., 2015; Nishi et al., 2013; Perez et al., 2011; Yu et al., 2013). A study of physician-diagnosed COPD patients hospitalized for exacerbations found that 22% of patients did not have COPD upon spirometry testing (Prieto Centurion, et al., 2012). Treatment of presumed COPD without accurate diagnosis and understanding of true etiology of symptoms results in patients not receiving medication that would improve symptoms and quality of life, prevent exacerbations and reduce costly use of emergency and hospital services. Patients may be exposed to adverse effects of unneeded medication and or delays in true diagnosis and management of another condition increasing overall cost of care (Boulet et al., 2013; Bourbeau et al., 2008; CDC, 2012; Collins et al., 2015; Joo et al., 2011).

Several recent studies emphasize the association between both under- and over- diagnosis of COPD with increased respiratory symptoms and health care utilization (Gershon et al, 2018; Farooqi et al, 2022).

Studies show a wide range of deficiencies in adherence to guidelines regarding long-acting inhaled bronchodilator use across different settings (Asche et al., 2012; CDC, 2012; Fitch, et al., 2011; Nantsupawat et al., 2012; Perez et al., 2011; Sharif, et al., 2013; Keller, et al., 2020, Ghosh, et al, 2019). Underuse of bronchodilators were found related to hospital readmissions and to increased total costs of services when compared to patient care adhering to GOLD guidelines (Asche et al., 2012; Nantsupawat et al., 2012).

Suboptimal COPD management has implications for severity of illness, disease progression, patient quality of life and health status, exacerbations (and associated costs) and mortality. Improved adherence to COPD management guidelines, specifically appropriate use of long-acting inhaled bronchodilators, has the potential to improve clinical outcomes and cost of care related to COPD. As a result, we believe this measure will continue to increase appropriate long-acting inhaled bronchodilator use, improving patient management and total costs of COPD. Although recent guidelines state dual long-acting bronchodilator medication are “preferred” for treatment initiation, patients well-controlled on one long-acting bronchodilator do not necessarily require escalation. For this reason, prescription of one or more long-acting bronchodilators is all that is required to meet the measure.

### **CLINICAL RECOMMENDATION STATEMENTS:**

#### **Spirometry:**

Recommendation 1: ACP, ACCP, ATS, and ERS recommend that spirometry should be obtained to diagnose airflow obstruction in patients with respiratory symptoms (Grade: strong recommendation, moderate-quality evidence). Spirometry should not be used to screen for airflow obstruction in individuals without respiratory symptoms (Grade: strong recommendation, moderate-quality evidence)” (Qaseem et al, 2011).

“COPD should be considered in any patient with dyspnea, chronic cough or sputum production, and/or a history of exposure to risk factors for the disease. Spirometry is required to make the diagnosis in this clinical context; the presence of post-bronchodilator FEV1/FVC < 0.70 confirms the presence of persistent airflow limitation and thus of COPD in patients with appropriate symptoms and significant exposure to noxious stimuli. Spirometry is the most reproducible and objective measurement of airflow limitation. It is a noninvasive and readily available test” (GOLD 2022).

#### **Inhaled Bronchodilators:**

In patients with chronic obstructive pulmonary disease who complain of dyspnea or exercise intolerance, we recommend long-acting beta-agonist (LABA)/long-acting muscarinic antagonist (LAMA) combination therapy over LABA or LAMA monotherapy (strong recommendation, moderate quality evidence) (Nicci et al, 2020).

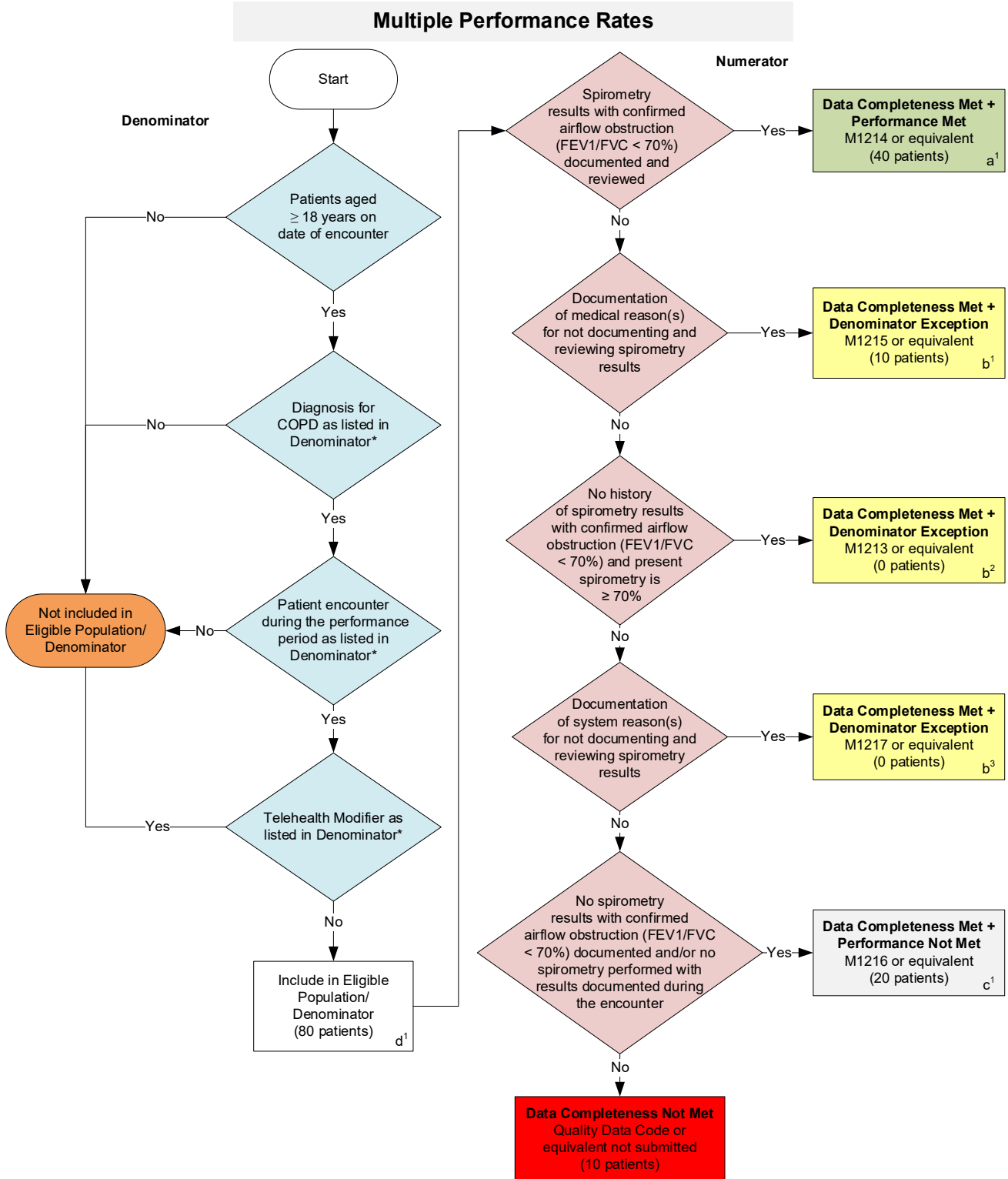
LABA and LAMAs are preferred over short-acting agents except for patients with only occasional dyspnea (Evidence A), and for immediate relief of symptoms in patients already on long-acting bronchodilators for maintenance therapy. When initiating treatment with long-acting bronchodilators, the preferred choice is a combination of a LAMA and a LABA. In patients with persistent dyspnea on a single long-acting bronchodilator treatment should be escalated to two (Evidence A). The combination can be given as a single inhaler or multiple inhaler treatment (GOLD 2023).

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**2024 Clinical Quality Measure Flow for Quality ID #052:  
Chronic Obstructive Pulmonary Disease (COPD): Spirometry Evaluation  
and Long-Acting Inhaled Bronchodilator Therapy  
Submission Criteria One**

*Disclaimer: Refer to the measure specification for specific coding and instructions to submit this measure.*



**SAMPLE CALCULATIONS: SUBMISSION CRITERIA ONE**

**Data Completeness=**

$$\frac{\text{Performance Met (a}^1=40 \text{ patients)} + \text{Denominator Exception (b}^1+\text{b}^2+\text{b}^3=10 \text{ patients)} + \text{Performance Not Met (c}^1=20 \text{ patients)}}{\text{Eligible Population / Denominator (d}^1=80 \text{ patients)}} = \frac{70 \text{ patients}}{80 \text{ patients}} = 87.50\%$$

**Performance Rate=**

$$\frac{\text{Performance Met (a}^1=40 \text{ patients)}}{\text{Data Completeness Numerator (70 patients) – Denominator Exception (b}^1+\text{b}^2+\text{b}^3=10 \text{ patients)}} = \frac{40 \text{ patients}}{60 \text{ patients}} = 66.67\%$$

\*See the posted measure specifications for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Patient-Process

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The measure diagrams were developed by CMS as a supplemental resource to be used in conjunction with the measure specifications. They should not be used alone or as a substitution for the measure specification.

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## Submission Criteria Two

**Disclaimer:** Refer to the measure specification for specific coding and instructions to submit this measure.



**SAMPLE CALCULATIONS: SUBMISSION CRITERIA TWO**

**Data Completeness=**

$$\frac{\text{Performance Met (a}^2=40 \text{ patients)} + \text{Denominator Exception (b}^4+\text{b}^5=10 \text{ patients)} + \text{Performance Not Met (c}^2=20 \text{ patients)}}{\text{Eligible Population / Denominator (d}^2=80 \text{ patients)}} = \frac{70 \text{ patients}}{80 \text{ patients}} = 87.50\%$$

**Performance Rate=**

$$\frac{\text{Performance Met (a}^2=40 \text{ patients)}}{\text{Data Completeness Numerator (70 patients) – Denominator Exception (b}^4+\text{b}^5=10 \text{ patients)}} = \frac{40 \text{ patients}}{60 \text{ patients}} = 66.67\%$$

**OVERALL SAMPLE CALCULATIONS**

**Overall Data Completeness=**

$$\frac{\text{Performance Met (a}^1+\text{a}^2=80) + \text{Denominator Exception (b}^1+\text{b}^2+\text{b}^3+\text{b}^4+\text{b}^5=20) + \text{Performance Not Met (c}^1+\text{c}^2=40)}{\text{Eligible Population / Denominator (d}^1+\text{d}^2=160 \text{ patients)}} = \frac{140 \text{ patients}}{160 \text{ patients}} = 87.50\%$$

**Overall Performance Rate=**

$$\frac{\text{Performance Rate One (66.67\%)} + \text{Performance Rate Two (66.67\%)}}{\text{Number of Performance Rates (2)}} = \frac{133.34\%}{2} = 66.67\%$$

\*See the posted measure specifications for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Patient-Process

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**2024 Clinical Quality Measure Flow Narrative for Quality ID #52:  
Chronic Obstructive Pulmonary Disease (COPD): Spirometry Evaluation and Long-Acting Inhaled  
Bronchodilator Therapy**

***Disclaimer:** Refer to the measure specification for specific coding and instructions to submit this measure.*

**Submission Criteria One:**

1. Start with Denominator
2. Check *Patients aged greater than or equal to 18 years on date of encounter*.
  - a. If *Patients aged greater than or equal to 18 years on date of encounter* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Patients aged greater than or equal to 18 years on date of encounter* equals Yes, proceed to check *Diagnosis for COPD as listed in Denominator\**.
3. Check *Diagnosis for COPD as listed in Denominator\**:
  - a. If *Diagnosis for COPD as listed in Denominator\** equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Diagnosis for COPD as listed in Denominator\** equals Yes, proceed to check *Patient encounter during the performance period as listed in Denominator\**.
4. Check *Patient encounter during the performance period as listed in Denominator\**:
  - a. If *Patient encounter during the performance period as listed in Denominator\** equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Patient encounter during the performance period as listed in Denominator\** equals Yes, proceed to check *Telehealth Modifier as listed in Denominator\**.
5. Check *Telehealth Modifier as listed in Denominator\**:
  - a. If *Telehealth Modifier as listed in Denominator\** equals Yes, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Telehealth Modifier as listed in Denominator\** equals No, include in *Eligible Population/Denominator*.
6. Denominator Population:
  - Denominator Population is all Eligible Patients in the Denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d<sup>1</sup> equals 80 patients in the Sample Calculation.
7. Start Numerator
8. Check *Spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and reviewed*:
  - a. If *Spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and reviewed* equals Yes, include in *Data Completeness Met and Performance Met*.

- *Data Completeness Met and Performance Met* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a<sup>1</sup> equals 40 patients in the Sample Calculation.
- b. If *Spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and reviewed* equals No, proceed to check *Documentation of medical reason(s) for not documenting and reviewing spirometry results*.
9. Check *Documentation of medical reason(s) for not documenting and reviewing spirometry results*:
- a. If *Documentation of medical reason(s) for not documenting and reviewing spirometry results* equals Yes, include in *Data Completeness Met and Denominator Exception*.
- *Data Completeness Met and Denominator Exception* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b<sup>1</sup> equals 10 patients in the Sample Calculation.
- b. If *Documentation of medical reason(s) for not documenting and reviewing spirometry results* equals No, proceed to check *No history of spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) and present spirometry is ≥ 70%*.
10. Check *No history of spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) and present spirometry is ≥ 70%*:
- a. If *No history of spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) and present spirometry is ≥ 70%* equals Yes, include in *Data Completeness Met and Denominator Exception*.
- *Data Completeness Met and Denominator Exception* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b<sup>2</sup> equals 0 patients in the Sample Calculation.
- b. If *No history of spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) and present spirometry is ≥ 70%* equals No, proceed to check *Documentation of system reason(s) for not documenting and reviewing spirometry results*.
11. Check *Documentation of system reason(s) for not documenting and reviewing spirometry results*:
- a. If *Documentation of system reason(s) for not documenting and reviewing spirometry results* equals Yes, include in *Data Completeness Met and Denominator Exception*.
- *Data Completeness Met and Denominator Exception* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b<sup>3</sup> equals 0 patients in the Sample Calculation.
- b. If *Documentation of system reason(s) for not documenting and reviewing spirometry results* equals No, proceed to check *No spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and/or no spirometry performed with results documented during the encounter*.
12. Check *No spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and/or no spirometry performed with results documented during the encounter*:
- a. If *No spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and/or no spirometry performed with results documented during the encounter* equals Yes, include in *Data Completeness Met and Performance Not Met*.

- *Data Completeness Met and Performance Not Met* letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c<sup>1</sup> equals 20 patients in the Sample Calculation.
- b. If *No spirometry results with confirmed airflow obstruction (FEV1/FVC < 70%) documented and/or no spirometry performed with results documented during the encounter* equals No, proceed to check *Data Completeness Not Met*.
13. Check *Data Completeness Not Met*:
- If *Data Completeness Not Met*, the Quality Data Code or equivalent was not submitted. 10 patients have been subtracted from the Data Completeness Numerator in the Sample Calculation.

### **Sample Calculations: Submission Criteria One**

Data Completeness equals Performance Met (a<sup>1</sup> equals 40 patients) plus Denominator Exception (b<sup>1</sup> plus b<sup>2</sup> plus b<sup>3</sup> equals 10 patients) plus Performance Not Met (c<sup>1</sup> equals 20 patients) divided by Eligible Population/Denominator (d<sup>1</sup> equals 80 patients). All equals 70 patients divided by 80 patients. All equals 87.50 percent.

Performance Rate equals Performance Met (a<sup>1</sup> equals 40 patients) divided by Data Completeness Numerator (70 patients) minus Denominator Exception (b<sup>1</sup> plus b<sup>2</sup> plus b<sup>3</sup> equals 10 patients). All equals 40 patients divided by 60 patients. All equals 66.67 percent.

\*See the posted measure specifications for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Patient-Process

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### **Submission Criteria Two:**

1. Start with Denominator
2. Check *Patients aged greater than or equal to 18 years on date of encounter*:
  - a. If *Patients aged greater than or equal to 18 years on date of encounter* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Patients aged greater than or equal to 18 years on date of encounter* equals Yes, proceed to check *Diagnosis for COPD as listed in Denominator\**.
3. Check *Diagnosis for COPD as listed in Denominator\**:
  - a. If *Diagnosis for COPD as listed in Denominator\** equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Diagnosis for COPD as listed in Denominator\** equals Yes, proceed to check *Patient encounter during the performance period as listed in Denominator\**.
4. Check *Patient encounter during the performance period as listed in Denominator\**:
  - a. If *Patient encounter during the performance period as listed in Denominator\** equals No, do not include in *Eligible Population/Denominator*. Stop processing.

- b. If *Patient encounter during the performance period as listed in Denominator\** equals Yes, proceed to check *Telehealth Modifier as listed in Denominator\**.
5. Check *Telehealth Modifier as listed in Denominator\**:
  - a. If *Telehealth Modifier as listed in Denominator\** equals Yes, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Telehealth Modifier as listed in Denominator\** equals No, proceed to check *Spirometry results documented (FEV1/FVC < 70%)*.
6. Check *Spirometry results documented (FEV1/FVC < 70%)*:
  - a. If *Spirometry results documented (FEV1/FVC < 70%)* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Spirometry results documented (FEV1/FVC < 70%)* equals Yes, proceed to check *Patient has COPD symptoms*.
7. Check *Patient has COPD symptoms*:
  - a. If *Patient has COPD symptoms* equals No, do not include in *Eligible Population/Denominator*. Stop processing.
  - b. If *Patient has COPD symptoms* equals Yes, include in *Eligible Population/Denominator*.
8. Denominator Population:
  - Denominator Population is all Eligible Patients in the Denominator. Denominator is represented as Denominator in the Sample Calculation listed at the end of this document. Letter d<sup>2</sup> equals 80 patients in the Sample Calculation.
9. Start Numerator
10. Check *Long-acting inhaled bronchodilator prescribed*:
  - a. If *Long-acting inhaled bronchodilator prescribed* equals Yes, include in *Data Completeness Met and Performance Met*.
    - *Data Completeness Met and Performance Met* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter a<sup>2</sup> equals 40 patients in the Sample Calculation.
  - b. If *Long-acting inhaled bronchodilator prescribed* equals No, proceed to check *Documentation of medical reason(s) for not prescribing a long-acting inhaled bronchodilator*.
11. Check *Documentation of medical reason(s) for not prescribing a long-acting inhaled bronchodilator*:
  - a. If *Documentation of medical reason(s) for not prescribing a long-acting inhaled bronchodilator* equals Yes, include in *Data Completeness Met and Denominator Exception*.
    - *Data Completeness Met and Denominator Exception* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b<sup>4</sup> equals 10 patients in the Sample Calculation.

- b. If *Documentation of medical reason(s) for not prescribing a long-acting inhaled bronchodilator* equals No, proceed to check *Documentation of system reason(s) for not prescribing a long-acting inhaled bronchodilator*.
12. Check *Documentation of system reason(s) for not prescribing a long-acting inhaled bronchodilator*:
  - a. If *Documentation of system reason(s) for not prescribing a long-acting inhaled bronchodilator* equals Yes, include in *Data Completeness Met and Denominator Exception*.
    - *Data Completeness Met and Denominator Exception* letter is represented in the Data Completeness and Performance Rate in the Sample Calculation listed at the end of this document. Letter b<sup>5</sup> equals 0 patients in the Sample Calculation.
  - b. If *Documentation of system reason(s) for not prescribing a long-acting inhaled bronchodilator* equals No, proceed to check *Long-acting inhaled bronchodilator not prescribed, reason not otherwise specified*.
13. Check *Long-acting inhaled bronchodilator not prescribed, reason not otherwise specified*:
  - a. If *Long-acting inhaled bronchodilator not prescribed, reason not otherwise specified* equals Yes, include in *Data Completeness Met and Performance Not Met*.
    - *Data Completeness Met and Performance Not Met* letter is represented in the Data Completeness in the Sample Calculation listed at the end of this document. Letter c<sup>2</sup> equals 20 patients in the Sample Calculation.
  - b. If *Long-acting inhaled bronchodilator not prescribed, reason not otherwise specified* equals No, proceed to check *Data Completeness Not Met*.
14. Check *Data Completeness Not Met*:
  - If *Data Completeness Not Met*, the Quality Data Code or equivalent was not submitted. 10 patients have been subtracted from the Data Completeness Numerator in the Sample Calculation.

### **Sample Calculations: Submission Criteria Two**

Data Completeness equals Performance Met (a<sup>2</sup> equals 40 patients) plus Denominator Exception (b<sup>4</sup> plus b<sup>5</sup> equals 10 patients) plus Performance Not Met (c<sup>2</sup> equals 20 patients) divided by Eligible Population/Denominator (d<sup>2</sup> equals 80 patients). All equals 70 patients divided by 80 patients. All equals 87.50 percent.

Performance Rate equals Performance Met (a<sup>2</sup> equals 40 patients) divided by Data Completeness Numerator (70 patients) minus Denominator Exception (b<sup>4</sup> plus b<sup>5</sup> equals 10 patients). All equals 40 patients divided by 60 patients. All equals 66.67 percent.

### **Overall Sample Calculations**

Data Completeness equals Performance Met (a<sup>1</sup> plus a<sup>2</sup> equals 80 patients) plus Denominator Exception (b<sup>1</sup> plus b<sup>2</sup> plus b<sup>3</sup> plus b<sup>4</sup> plus b<sup>5</sup> equals 20 patients) plus Performance Not Met (c<sup>1</sup> plus c<sup>2</sup> equals 40 patients) divided by Eligible Population/Denominator (d<sup>1</sup> plus d<sup>2</sup> equals 160 patients). All equals 140 patients divided by 160 patients. All equals 87.50 percent.

Overall Performance Rate equals Performance Rate One (66.67%) plus Performance Rate Two (66.67%) divided by the Number of Performance Rates (2). All equals 133.34% divided by 2. All equals 66.67 percent.

\*See the posted measure specifications for specific coding and instructions to submit this measure.

NOTE: Submission Frequency: Patient-Process

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