

Data Considerations for Creating a COPD Registry in Electronic Health Record (EHR) Systems



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Overview

1. Instructions

Boehringer Ingelheim has developed data considerations to assist healthcare providers in creating a COPD Registry in the following EHR systems: Allscripts TouchWorks, Athenahealth, Cerner, eClinicalWorks, and Epic. These instructions can be used only for this purpose and will not work for other EHR systems.

2. Considerations

- The customer shall be solely responsible for implementation, testing, and monitoring of the instructions to ensure proper orientation in each individual EHR system
- Capabilities, functionality, and set-up (customization) for each individual EHR system vary. Boehringer Ingelheim shall not be responsible for revising the implementation instructions it provides to any customer in the event that customer modifies or change its software or the configuration of its EHR system after such time as the implementation instructions have been initially provided by Boehringer Ingelheim
- While Boehringer Ingelheim tests its implementation instructions on multiple EHR systems, the instructions are not guaranteed to work for all available EHR systems and Boehringer Ingelheim shall have no liability thereto
- While EHRs may assist providers in identifying appropriate patients for consideration of assessment and treatment, the decision and action should ultimately be decided by a provider in consultation with the patient, after a review of the patient's records to determine eligibility, and Boehringer Ingelheim shall have no liability thereto
- The instructions have not been designed to and are not tools and/or solutions for meeting Meaningful Use and/or any other quality/accreditation requirement
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Overview (cont'd)

3. Background

As healthcare shifts to value-based care, providers look for solutions to gain EHR efficiencies without sacrificing clinical quality. One option to meet that need is to create EHR-enabled population health management solutions. These solutions assist providers with early disease screening, correct diagnosis, better treatment, and optimal care for patients with established chronic disease.

A COPD patient registry can serve as a powerful tool to assist providers in effectively managing this population and further supports overall assessment and treatment considerations. The COPD patient registry can help drive evidence-based guidelines and improve patient outcomes by providing clinicians with a mechanism to generate reports and analyze patient data individually or in aggregate.

4. Notes

- These instructions may be provided to healthcare providers and institutions for their educational purposes
- End users using this resource should be informed of the availability, content, and target audience. Some end users may already use the described functionality so training may require minimal effort



Suggested COPD Registry Data Criteria

5. Suggested COPD ICD-10 Inclusion Codes

| Diagnosis | ICD-10 Code |
|--|-------------|
| Bronchitis, not specified as acute or chronic | J40.0 |
| Simple chronic bronchitis | J41.0 |
| Mucopurulent chronic bronchitis | J41.1 |
| Mixed simple and mucopurulent chronic bronchitis | J41.8 |
| Unspecified chronic bronchitis | J42.0 |
| Unilateral pulmonary emphysema (MacLeod's syndrome) | J43.0 |
| Panlobular emphysema | J43.1 |
| Centrilobular emphysema | J43.2 |
| Other emphysema | J43.8 |
| Chronic obstructive pulmonary disease with acute lower respiratory infection | J44.0 |
| Chronic obstructive pulmonary disease with (acute) exacerbation | J44.1 |
| Chronic obstructive pulmonary disease, unspecified | J44.9 |

Source: ICD10Data.com. <https://www.icd10data.com/>. Accessed October 15, 2018.

Suggested COPD Registry Data Criteria (cont'd)

Suggested COPD Medication Classes

- Long and Short-Acting Bronchodilators
- Inhaled Corticosteroids
- Combination Inhaled Corticosteroid/Bronchodilator Therapy
- Oral Corticosteroids
- Phosphodiesterase-4 Inhibitors



Sources: 1. American Thoracic Society. Patient Information Series. Medicines used to treat COPD. *Am J Respir Crit Care Med.* 2005;172:3-4. Updated November 2013. 2. National Institutes of Health / U.S. National Library of Medicine. Medline Plus. COPD-control drugs. <https://medlineplus.gov/ency/patientinstructions/000025.htm>. Accessed October 15, 2018.

Suggested COPD Registry Data Criteria (cont'd)

Suggested COPD Clinical Data Elements



| Patient Information | Clinical Information |
|-----------------------|--|
| Name (Last, First) | Primary Care Provider |
| Address | Case Manager (if applicable) |
| Date of Birth | Pulmonary Specialist |
| Phone # | Initial Spirometry Assessment Date |
| Race/Ethnicity/Gender | COPD Diagnosis Code(s) |
| Language | FEV ₁ , FVC ₁ , Ratio |
| Marital Status | Contact Date(s) with Pulmonary |
| Insurance | Other Clinical Comorbidities |
| | Pneumococcal Immunization |
| | Influenza Immunization |
| | Hospital Admission With Primary or Secondary Diagnosis of COPD |
| | Smoking Status |
| | Eosinophilic Count Test Results |

