



Instructions for completion of the COPD Gene™ CT Assessment Scoresheet

Exam quality:

Adequate Inspiration

Adequacy of inspiration should be judged subjectively.

Adequate Expiration

Adequacy of expiration should be judged subjectively, and by determining whether the posterior tracheal membrane is infolded.

Inclusion of Entire Lung

All parts of the lung must be included

Respiratory Motion Artifact

Respiratory motion artifact should be recorded. If respiratory artifact affects more than 1 cm of lung on inspiration or on expiration, the scan should be repeated. Respiratory motion artifact can be distinguished from transmitted cardiac motion by the fact that cardiac motion predominantly affects the left lower lung.

Emphysema

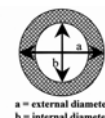
Emphysema is categorized as in the Fleischner Society Glossary [1]. Extent of emphysema is estimated visually in each 1/3 of the lung, including all categories of emphysema (bullae, centrilobular, etc.).

Other findings:

All but two of these are defined in the Fleischner Society Glossary [1].

Tracheobronchomalacia is diagnosed when the area of the trachea and/or main bronchi decreases by more than 50% on expiration.

Bronchial wall thickening is defined when the bronchial wall thickness is $> 50\%$ of the external diameter of the bronchus [2]



Concern for cancer

- Noncalcified, non-fatty nodule > 8 mm
- Endobronchial mass

Concern for clinically significant ILD

- ILD affecting more than 10% of lung parenchyma

Concern for clinically significant bronchiectasis

- Varicose or cystic bronchiectasis
- Cylindric bronchiectasis with tree-in-bud pattern

* Findings of concern should be communicated to PI

- Hansell DM, Bankier AA, Macmahon H, McLoud TC, Muller NL, Remy J. Fleischner Society: Glossary of Terms for Thoracic Imaging. Radiology 2008.
- Ooi GC, Khong PL, Chan-Yeung M, Ho JC, Chan PK, Lee JC, et al. High-resolution CT quantification of bronchiectasis: clinical and functional correlation. Radiology 2002;225:663-72.