CT information for the clinician

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• Emphysema in a CT begets obstruction
• A Chest CT informs on other important morbidities
Associations between emphysema-like lung on CT and incident airflow limitation: a general population-based cohort study


2045 adults without prebronchodilator (BD) airflow limitation (FEV₁/FVC<0.70) on spirometry in 2004–2006.

Mean age:58 years. Females 54%. 76% were non-White.

Never smoker. = 50%
Among smokers, 48% reported <10 pack-years, and 11% reported more than 30 pack-years.

“Emphysema like” defined as <950 Hounsfield units in CT

Outcome: Incident COPD in 2010-2012 (5 years)

Oelsner E et al Thorax 2018; 73:486
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<tr>
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<th>OR (95% CI)</th>
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<tbody>
<tr>
<td>Pre BD</td>
<td>2.62 (1.47 to 4.67)</td>
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<tr>
<td>Post BD</td>
<td>4.38 (1.63 to 11.74)</td>
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Oelsner E et al Thorax 2018; 73:486
Comorbidities and mortality risk in COPD

- CHF
- Pulmonary Fibrosis
- Lung Cancer
- Anxiety
- Breast Cancer*
- Pancreatic Cancer
- Diabetes w/ Neuropathy
- Gastric Duodenal Ulcer
- Liver Cirrhosis
- Esophageal Cancer
- A. Fibrillation

Divo M. AJRCCM. 2012;186:155-61.
Comorbidities and mortality risk in COPD