

# 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

US general population-based Multi-Ethnic Study of Atherosclerosis (MESA).

2045 adults without prebronchodilator (BD) airflow limitation ( $FEV_1/FVC < 0.70$ ) on spirometry in 2004–2006.

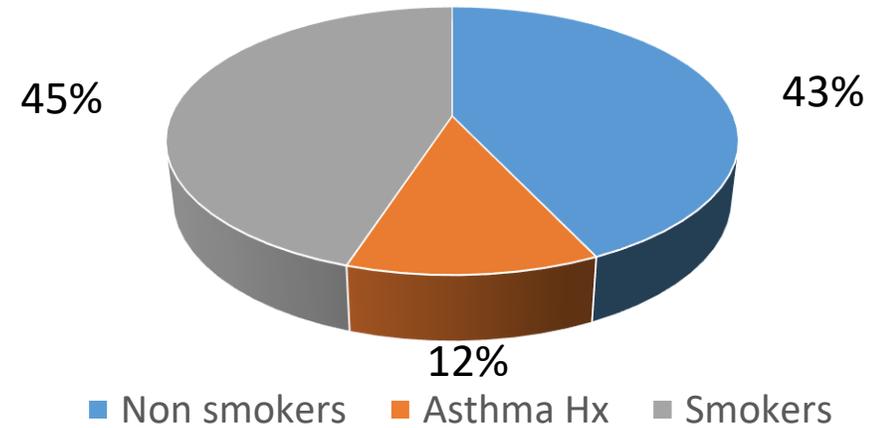
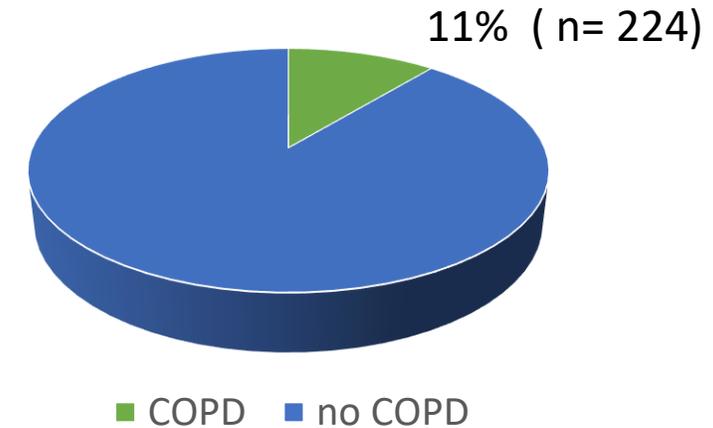
Mean age: 58 years. Females 54%. 76% were non-White.

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)



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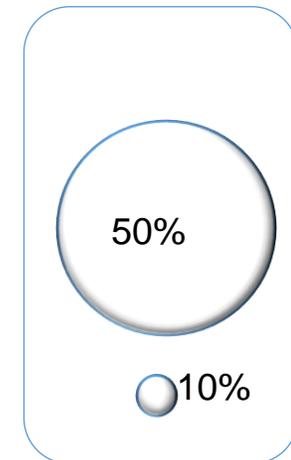
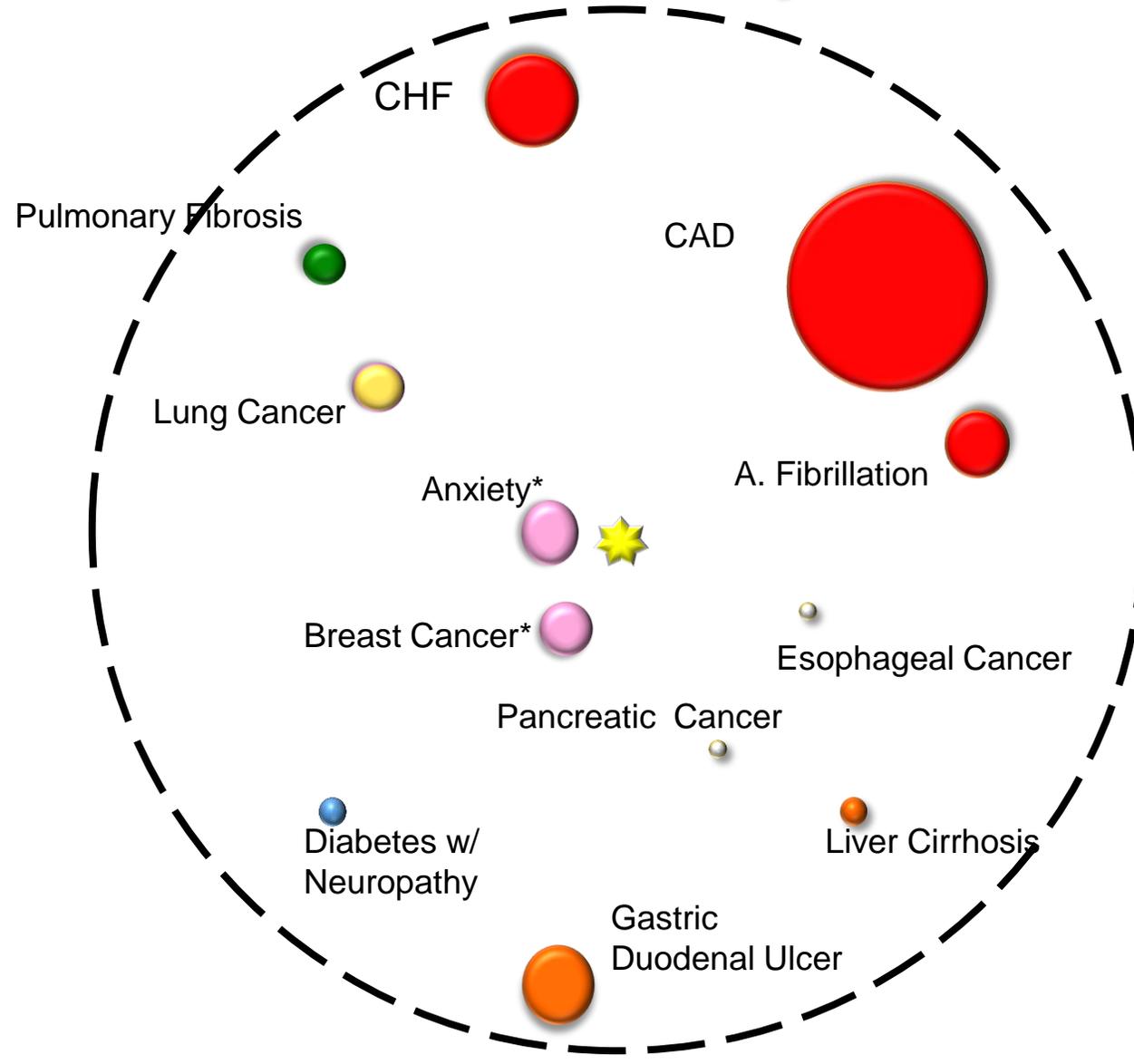
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	OR (95% CI)
Pre BD	2.62 (1.47 to 4.67)
Post BD	4.38 (1.63 to 11.74)

# Comorbidities and mortality risk in COPD



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