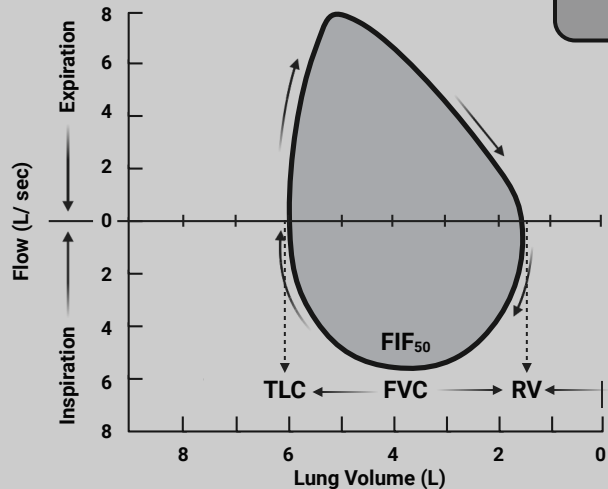
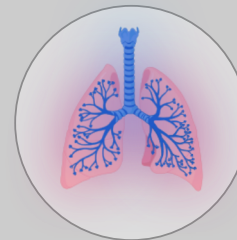


Flow Volume Loops



Obstructive pulmonary disease is associated with a flow volume loop pattern that appears smaller than normal with greater lung volumes.

- Examples:
- Emphysema
 - Chronic bronchitis
 - Asthma
 - Bronchiectasis
 - Cystic fibrosis

Restrictive pulmonary disease is associated with a flow volume loop pattern that appears smaller than normal with smaller lung volumes.

- Examples:
- Pulmonary fibrosis
 - Pneumonia
 - Sarcoidosis
 - Organic dust exposure (farmer's lung)
 - Radiation
 - Kyphosis, scoliosis
 - Pleural effusion, pleural scarring
 - Obesity
 - MS, ALS
 - Ascites

