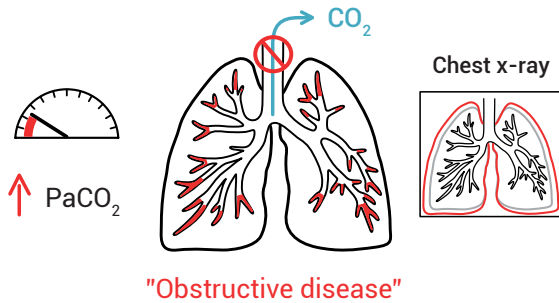




Which general lung disease category does the patient fall under?

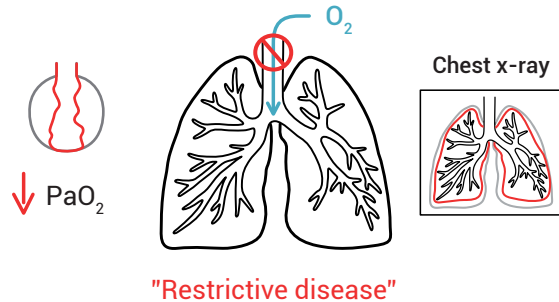
### Airway disease

Ventilation issue



### Alveolar disease

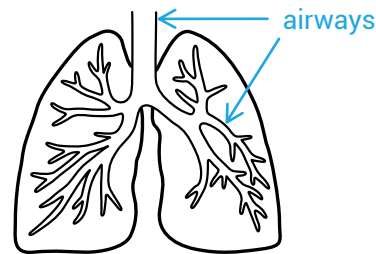
Oxygenation issue



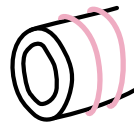
# Airway disease versus alveolar disease

## Airway disease

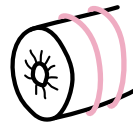
A problem with ventilation.



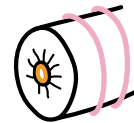
Normal airways



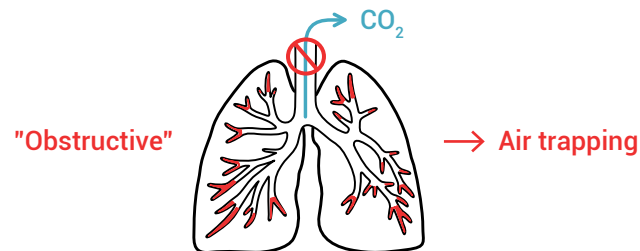
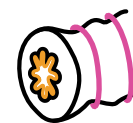
Inflamed airways



Airways blocked by mucus



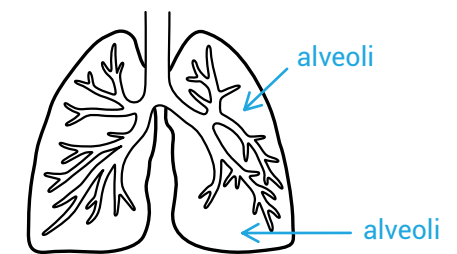
Asthmatic bronchial tube



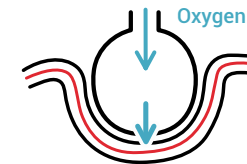
**Signs**  
Increased  $\text{PaCO}_2$   
Enlarged lungs on chest x-ray

## Alveolar disease

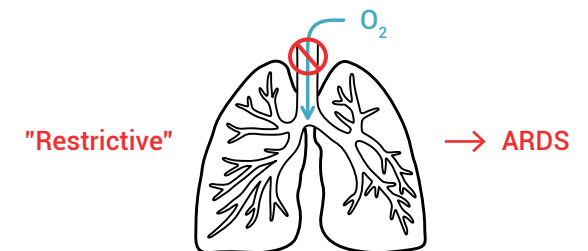
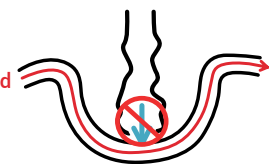
A problem with oxygenation.



Normal alveoli



Collapsed alveoli



**Signs**  
Decreased  $\text{PaO}_2$   
Lung size appears smaller on chest x-ray