

Lung abscess

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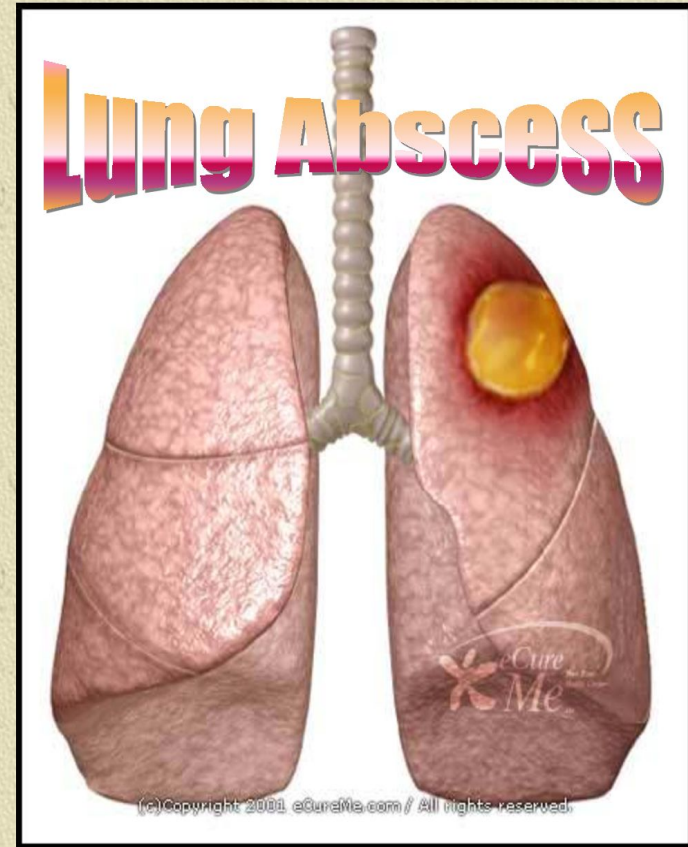
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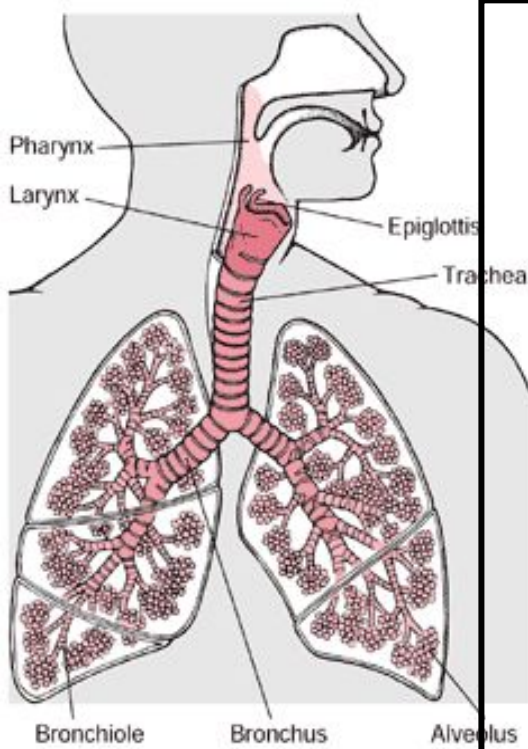
Prognosis



Lung abscess is necrosis of the pulmonary tissue and formation of cavities (more than 2 cm) containing necrotic debris or fluid caused by microbial infection.



Alcoholism is the most common condition predisposing to lung abscesses.



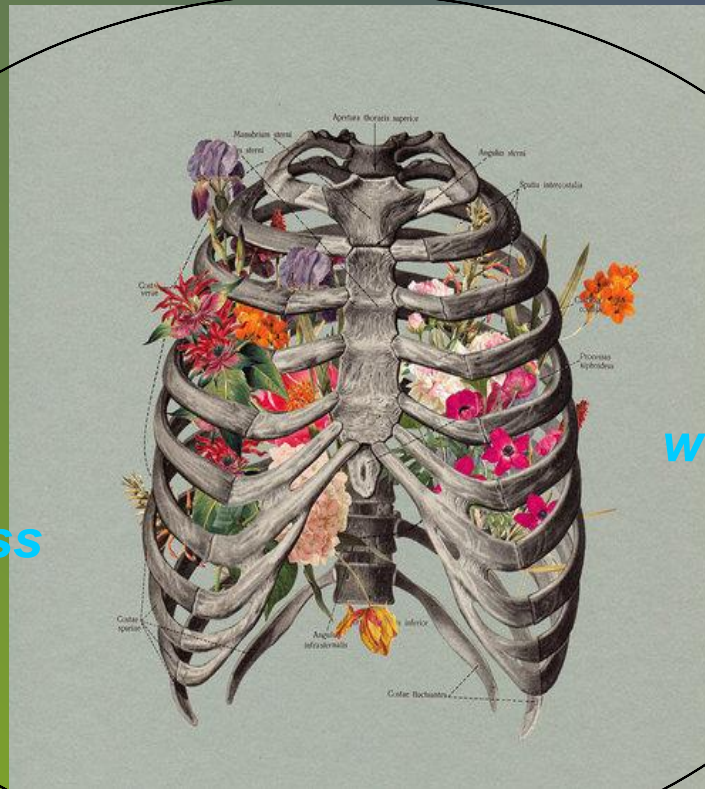
Lung abscess



***Primary
(60%)***

***Secondary
(40%)***

primary
*when it results
from existing lung
parenchymal process*



Secondary
*when it complicates
another process*



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Organisms



Causes

Pathological disease

Other factors

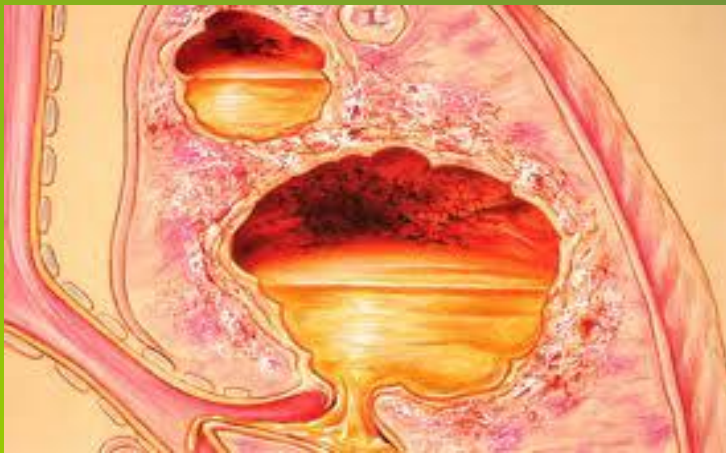
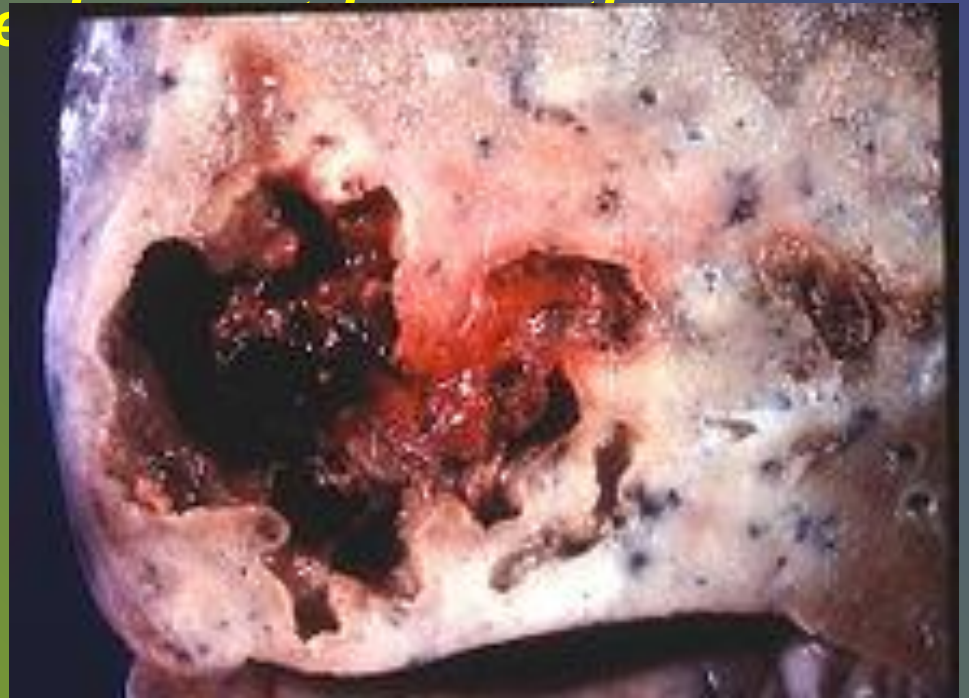
Conditions contributing to lung abscess

Aspiration of oropharyngeal

Septic emboli

Necrotizing pneumonia

Vasculitis



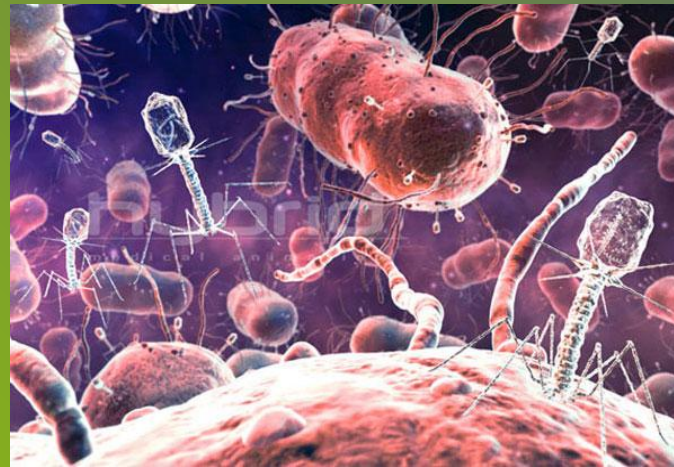
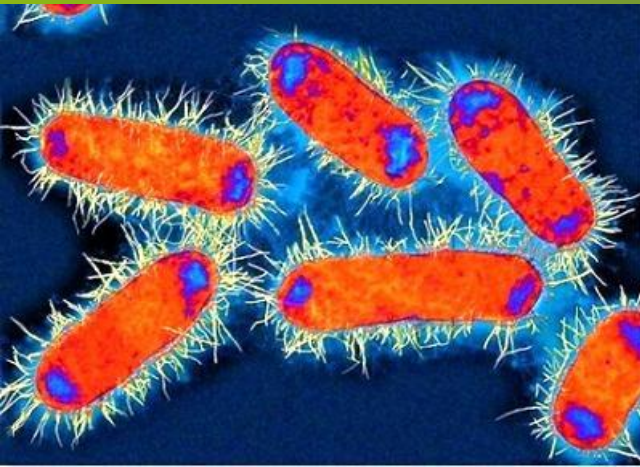
Organisms

Anaerobic bacteria: *Peptostreptococcus*, *Fusobacterium* species.

Microaerophilic streptococcus : *Streptococcus milleri*.

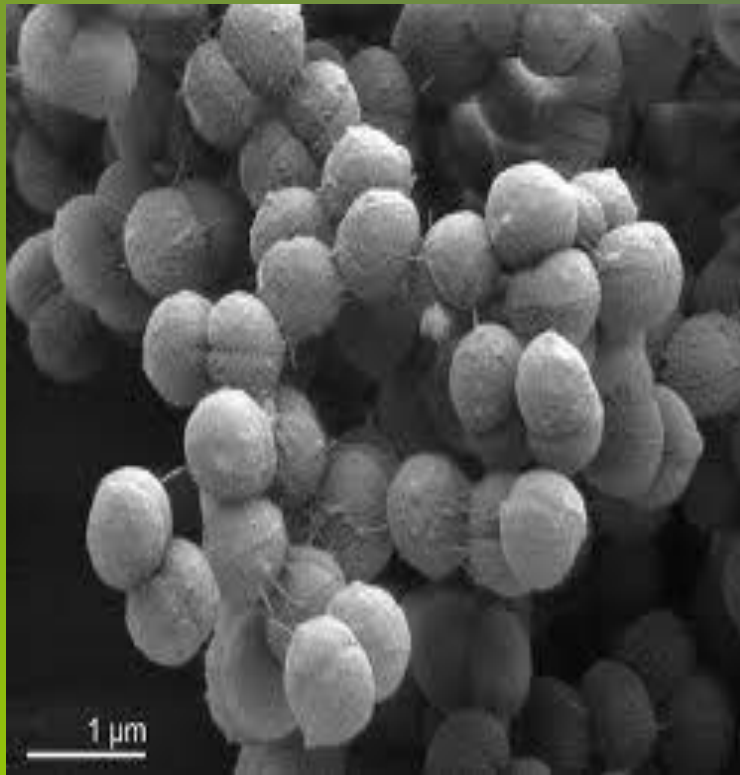
Aerobic bacteria: *Staphylococcus*, *Streptococcus*.

Fungi: *Candida*, *Aspergillus*.



Anaerobic bacteria:

Peptostreptococcus.

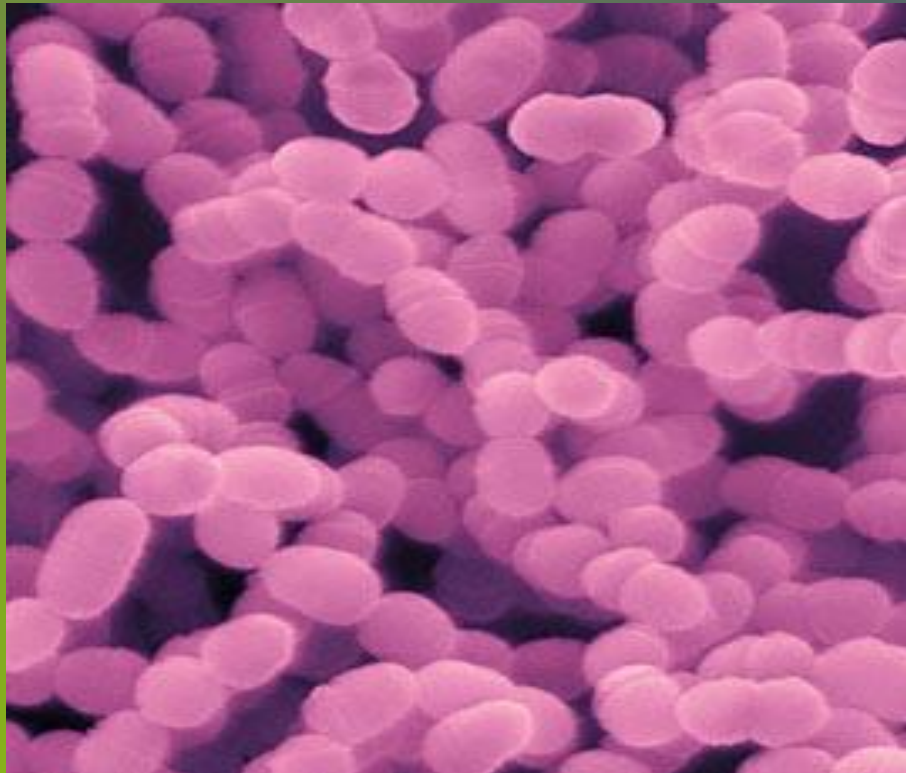


Fusobacterium species.



Microaerophilic streptococcus :

Streptococcus milleri.

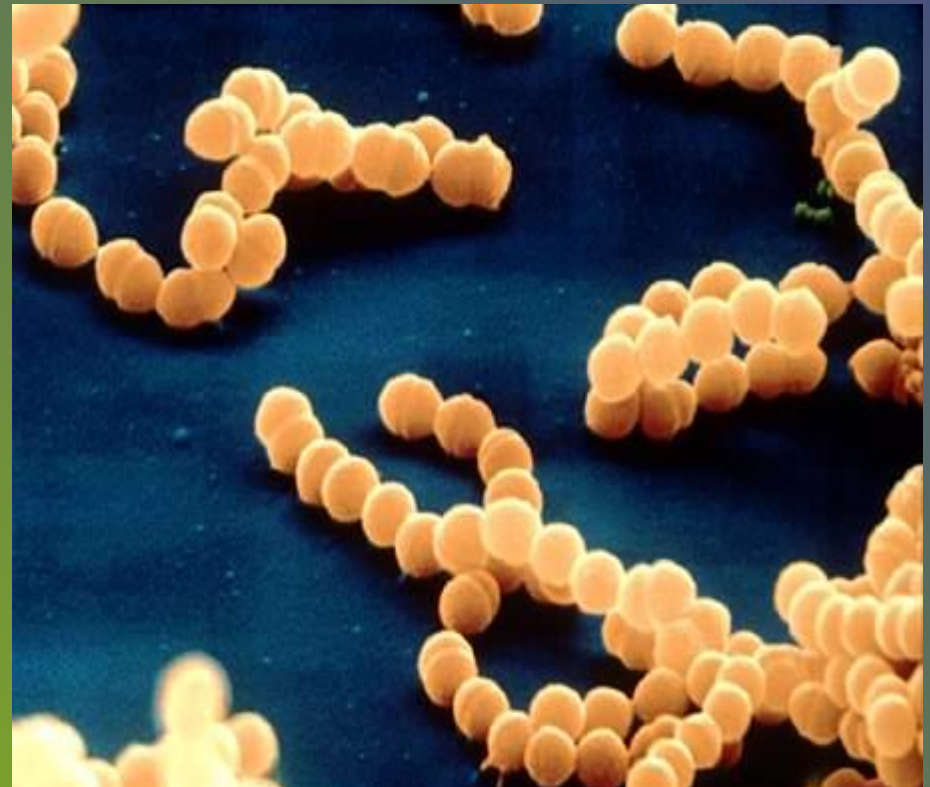


Aerobic bacteria:

Staphylococcus.

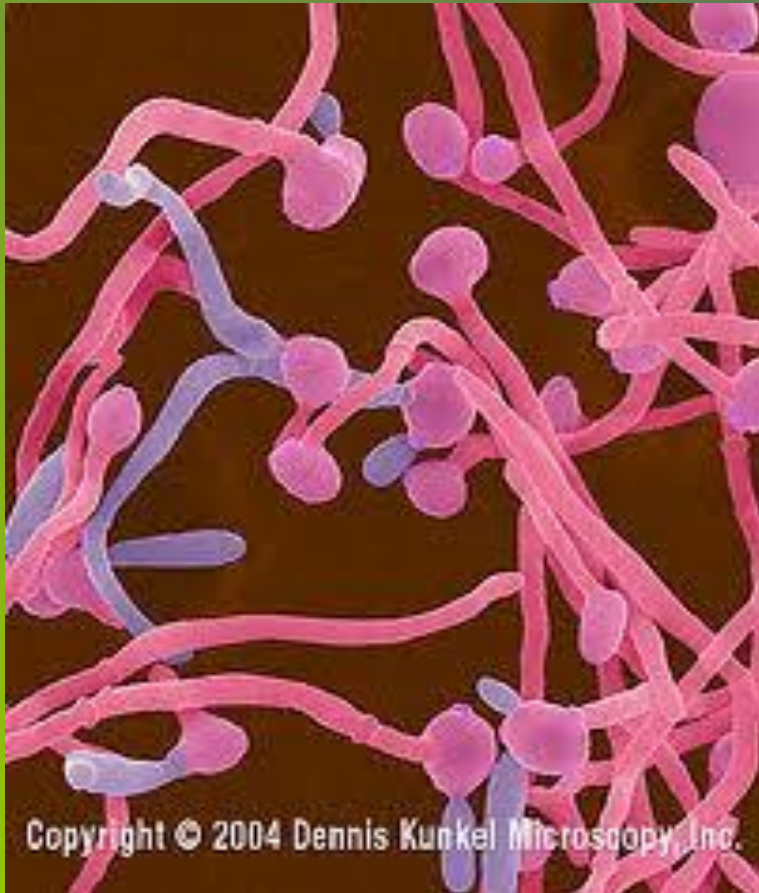


Streptococcus.

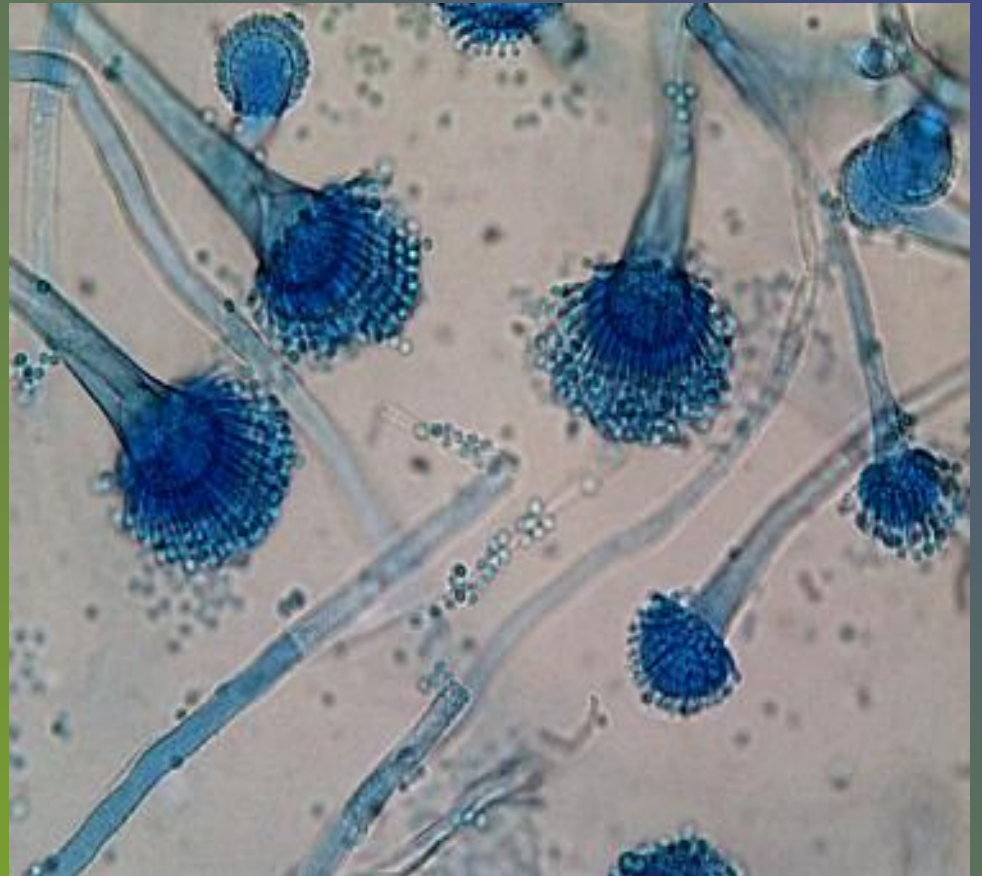


Fungi:

Candida.

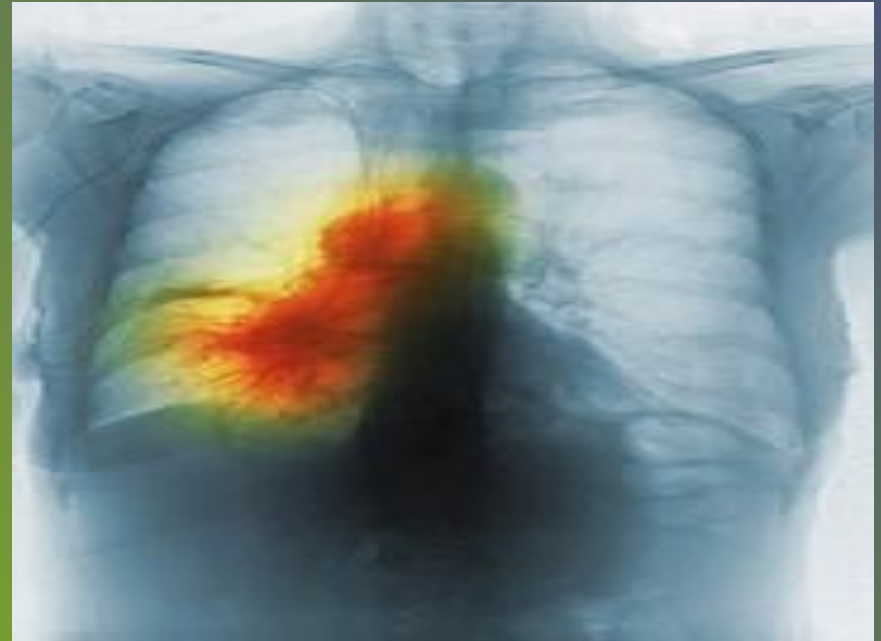
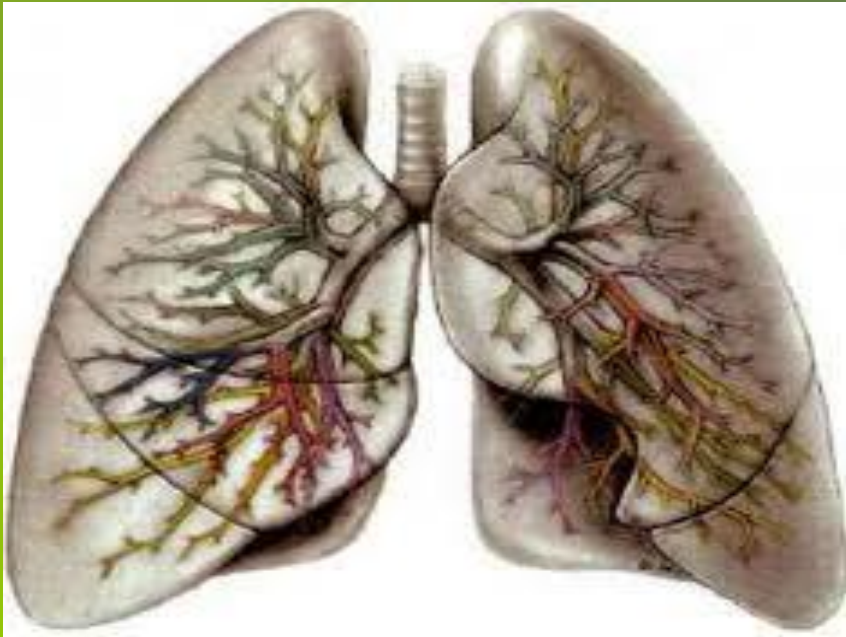


Aspergillus.



Signs and symptoms

Onset of symptoms is often gradual, but in necrotizing staphylococcal or gram-negative bacillary pneumonias patients can be acutely ill. Cough, fever with shivering and night sweats are often present. Cough can be productive with foul smelling purulent sputum ($\approx 70\%$) or less frequently with blood. Affected individuals may also complain of chest pain, shortness of breath, lethargy and other features of chronic illness.

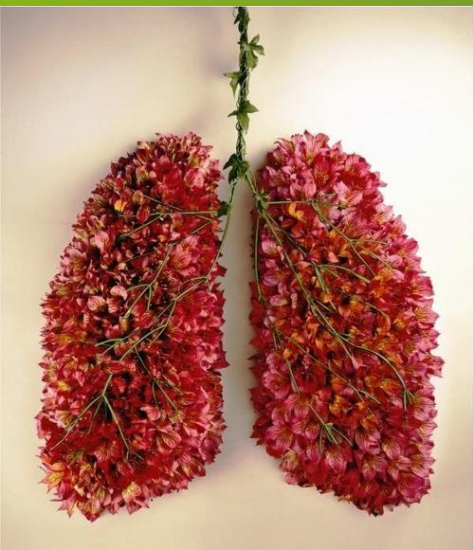




*Chest X-ray
and
other imaging
studies*

**Diagno
sis**

*Laboratory
studies*



Complications

Rare nowadays but include spread of infection to other lung segments, bronchiectasis, empyema, and bacteraemia with metastatic infection such as brain abscess.



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THE
END