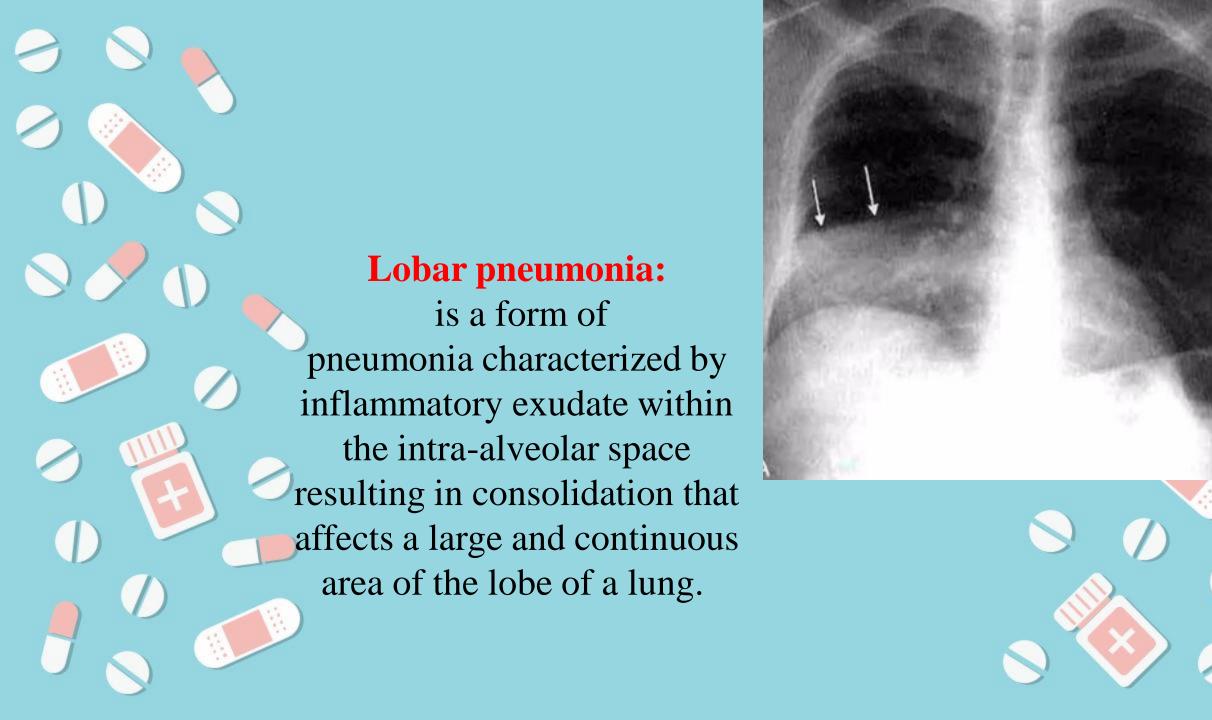
Al-Mustaqbal University



Pathophysiology 3rd stage Lab (Lobar Pneumonia Stages)

Dr. Widad Abd AL-Jabbar & Dr. Hasanain Owadh



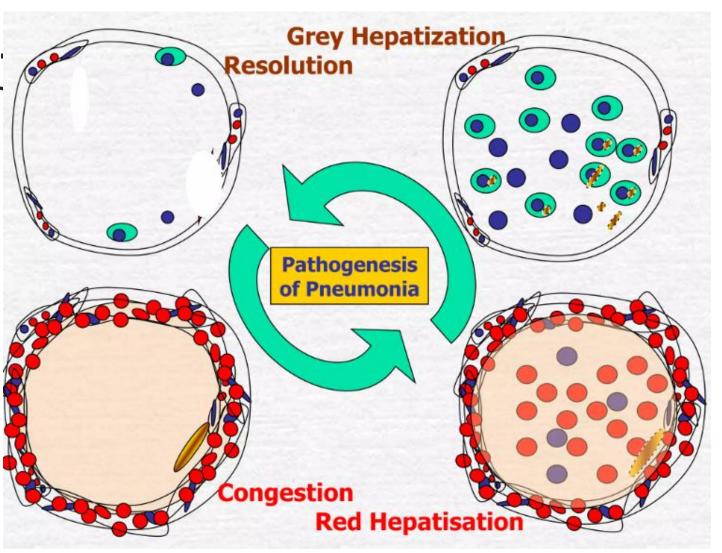
The four stages of lobar pneumonia include

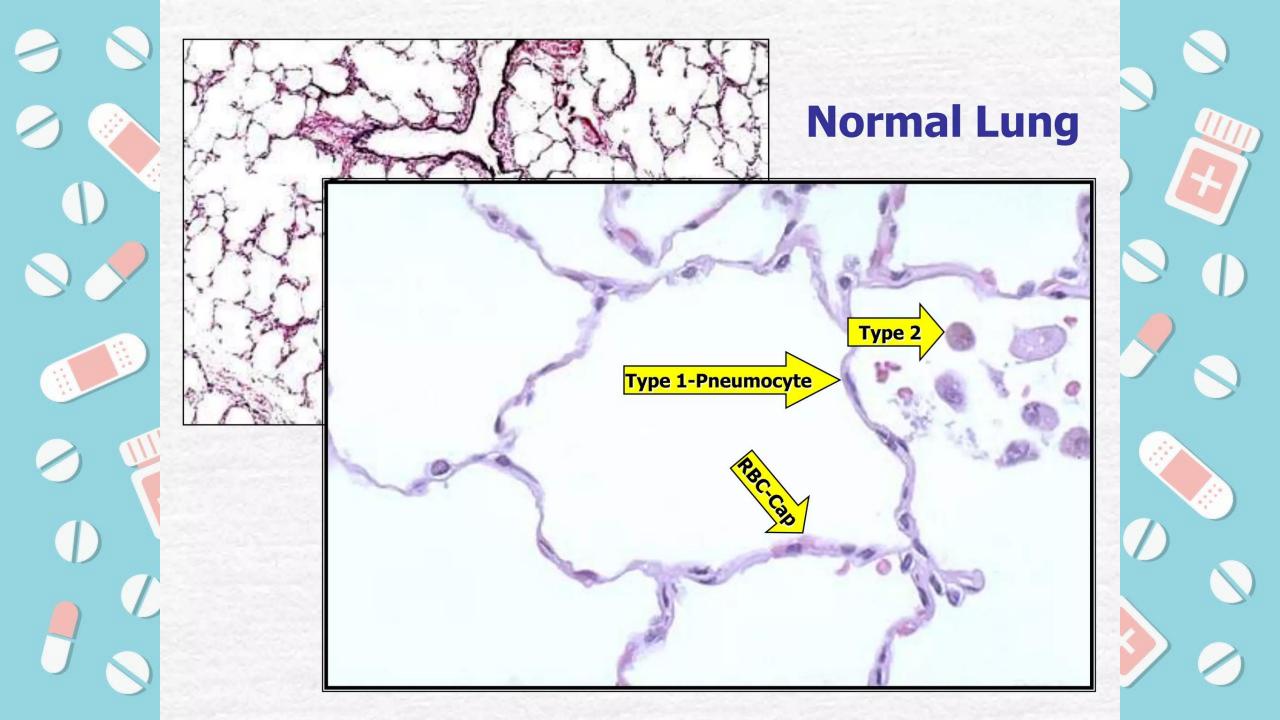
Stage 1: Congestion.

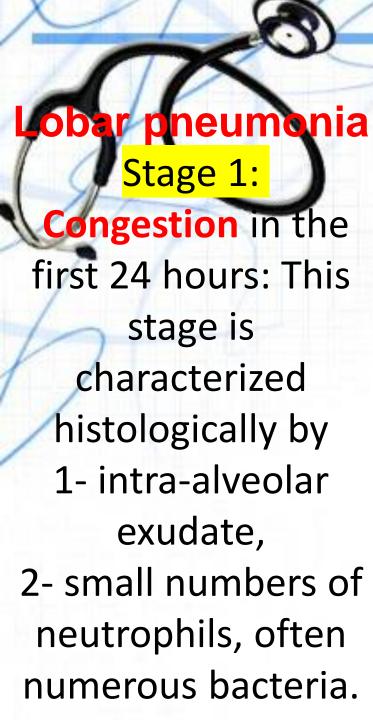
Stage 2: Red hepatization.

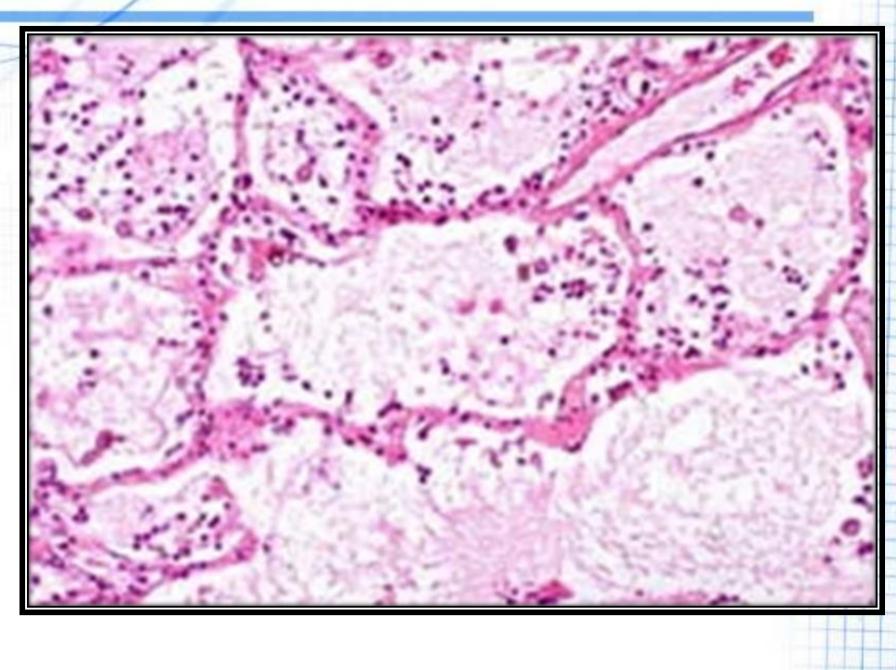
Stage 3: Gray hepatization

Stage 4: Resolution.





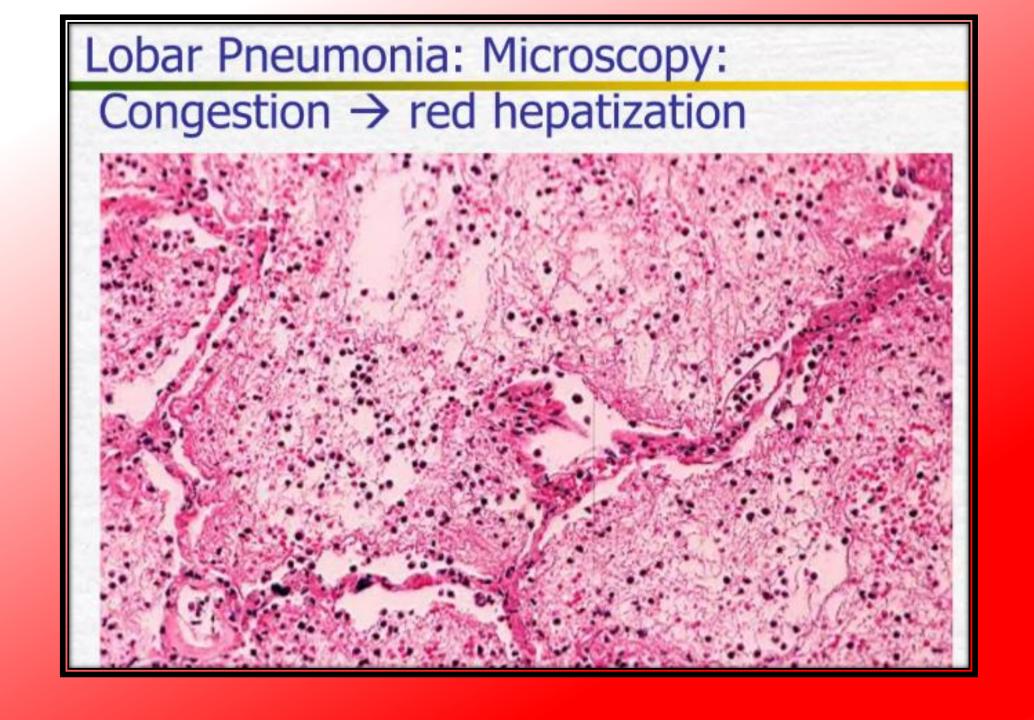


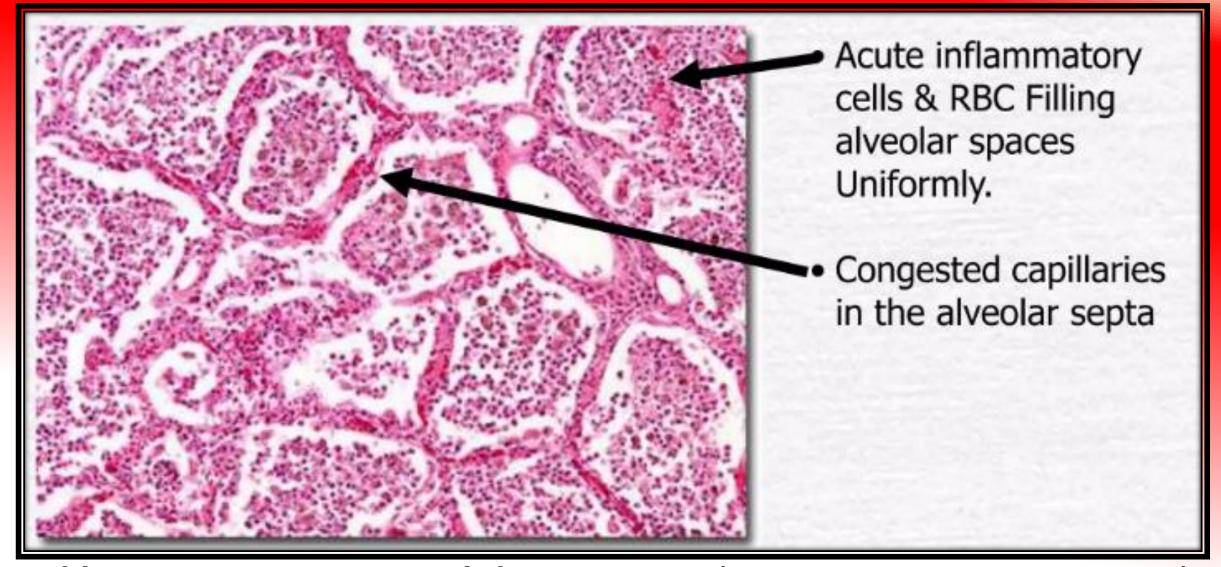


Lobar pneumonia Stage 2: Red hepatization or consolidation

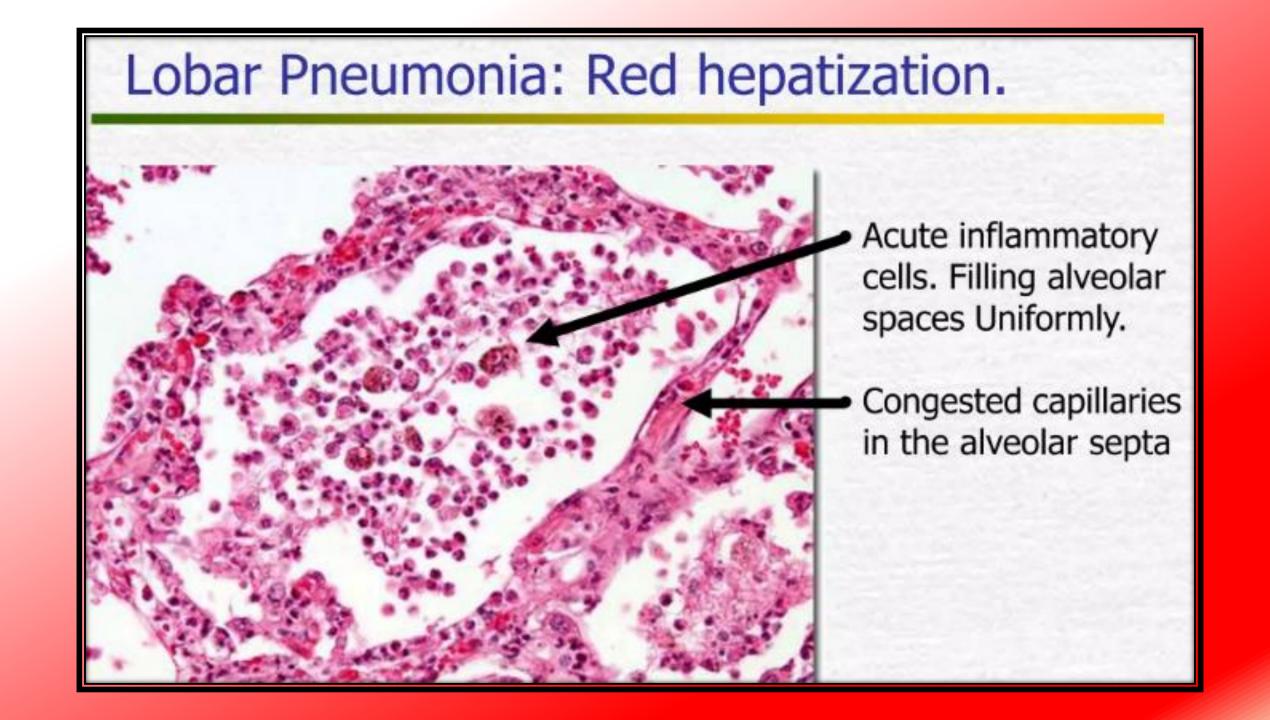
The gross appearance has been likened to that of the liver, hence the term "hepatization".







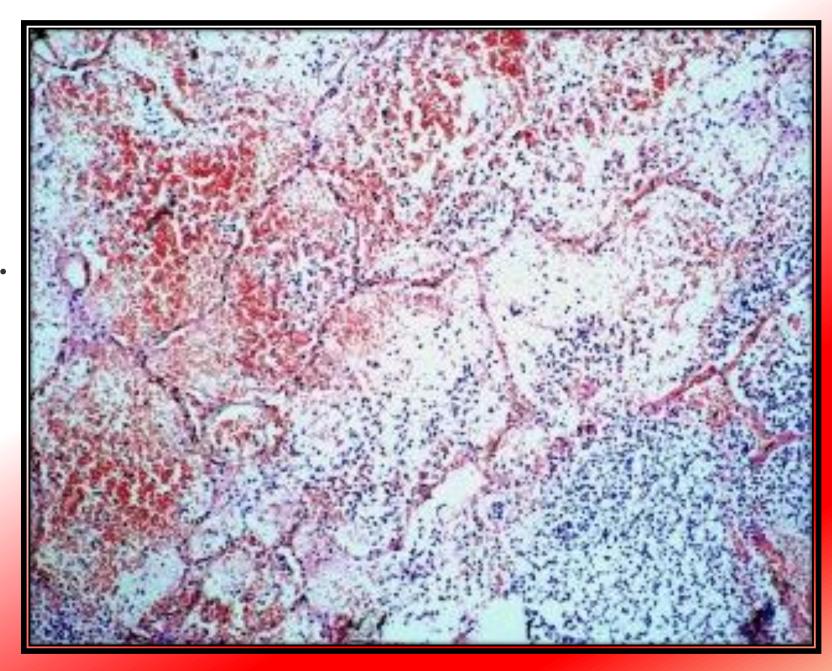
Red hepatization or consolidation: Vascular congestion persists, with extravasation of red blood cells into alveolar spaces, along with increased numbers of neutrophils and fibrin.



"Red hepatization"

Blood vessel congestion.

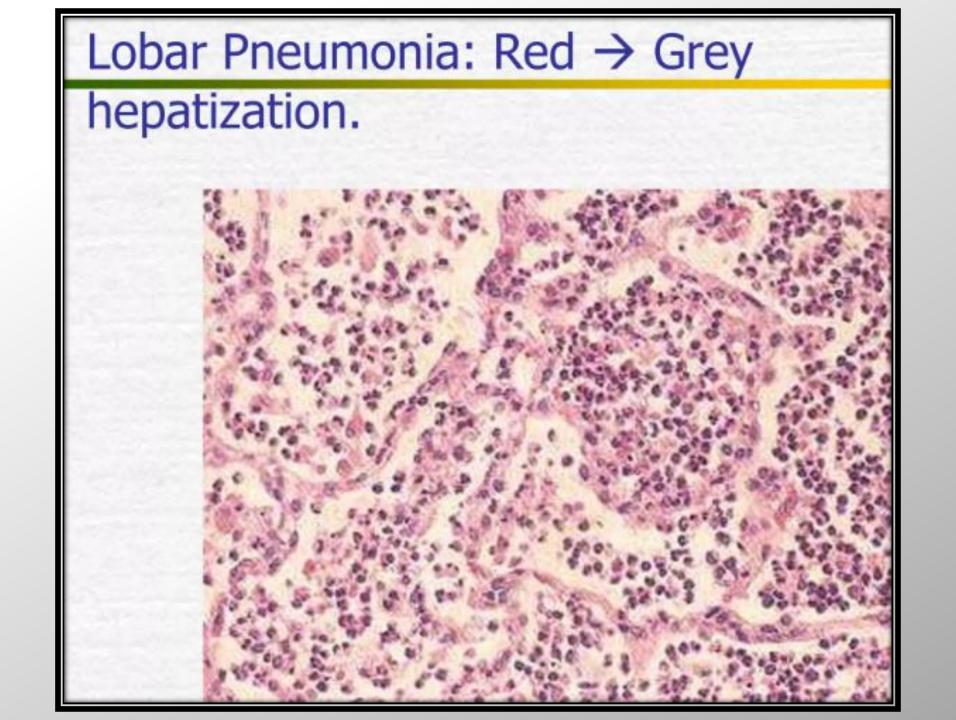
In the lumen of alveoli
1-erythrocytes,
2-fibrin,
3-several neutrophils.



Grey hepatization:

grossly the color is paler and the cut surface is drier. This is when death typically occurs in severe cases.



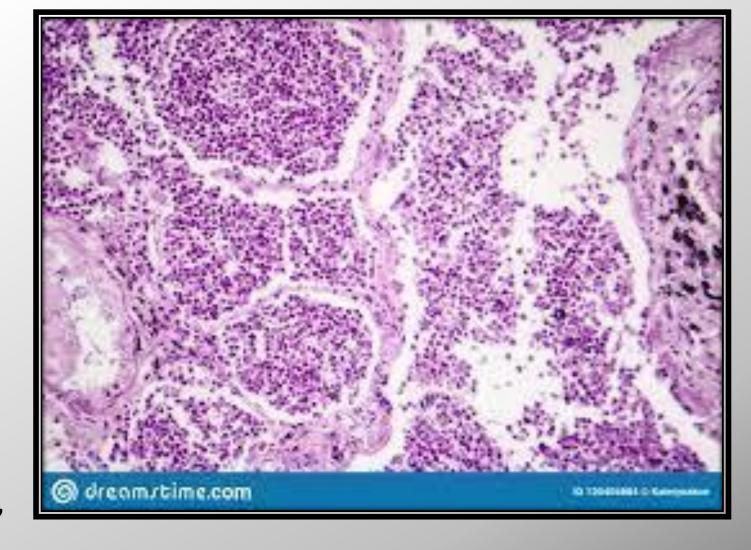


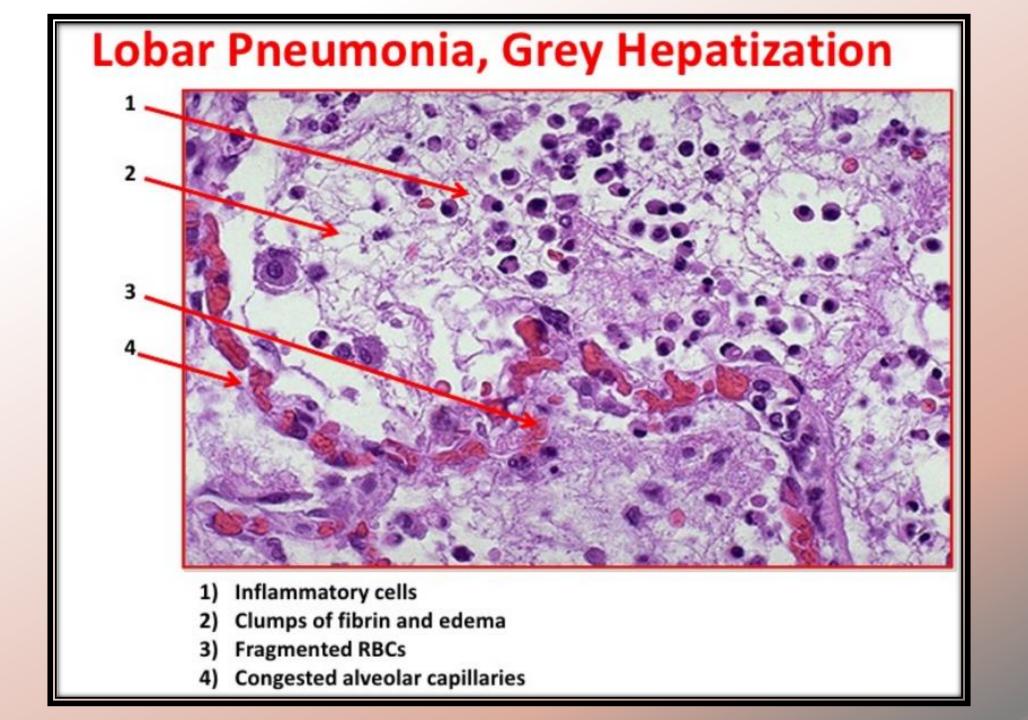
Lobar pneumonia

Stage 3: Lobar (gray hepatic phase) Gray hepatization

Grey hepatization:

 Red blood cells disintegrate, with persistence of the neutrophils and fibrin.





Stage 4: Resolution Fluids and breakdown products from cell destruction are reabsorbed. Macrophages (large white blood cells) are present and help to clear (neutrophils) and left over debris.

