

ARDS

Most Common Cause = SEPSIS

Capillary membrane leaks fluid

Alveolar Sac collapses

↳ Hypoxemia

↳ ORGAN DAMAGE!

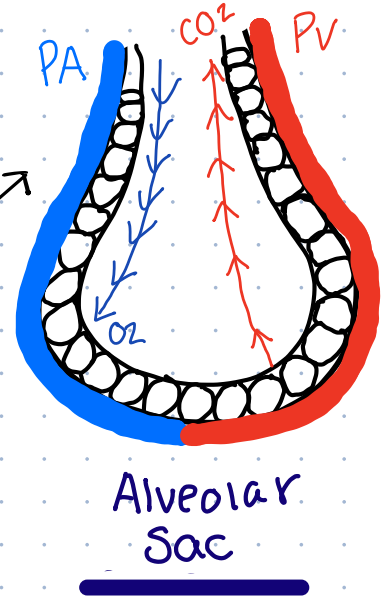
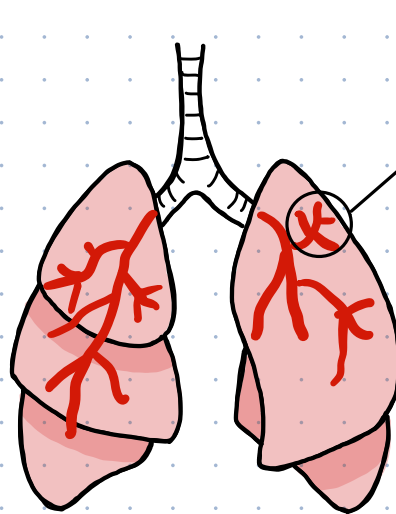
Causes

Direct OR

Indirect

- PNA
- Aspiration
- Embolism
- Inhalation Injury

- Sepsis
- Burns
- overdose
- Pancreatitis



$PaO_2 < 60 \text{ mmHg}$

Interventions

- Mechanical Ventilation with PEEP (10-20)
- Prone
- Monitor

- Pulm artery wedge Pressure
- Cardiac output
- hemodynamic

Medications

- Steroids
- Abx
- Protonix

Complications

- Pneumothorax
- Subcutaneous emphysema

↓ O₂
 ↑ respirations
 ↑ PH ↓ CO₂

Initially
 Hyaline membrane formation

→ ↑ CO₂ ↓ PH

(< 18 mmHg = ARDS)

1 Exudative Phase

24 hrs after injury
 Damaged capillary membrane
 → Pulmonary edema

damaged surfactant cells
 ↓ Surface tension

Refractory Hypoxemia

(O₂ ↓ \bar{c} oxygen) → Respiratory Alkalosis

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Proliferative Phase

14 days after injury
 Cell growth & Restructuring
 Fluid is reabsorbed
 Dense lung tissue

↓ lung Compliance = worsening hypoxemia

3

Fibrotic Phase

3 weeks
 Major lung damage
 Irreversible