

ALVEOLI & GAS EXCHANGE REFERENCE

[Diagram: Alveolus surrounded by Capillary Network]

Oxygen (O₂)

**Alveoli →
Blood**

High concentration in air to low in blood.

**Carbon Dioxide
(CO₂)**

**Blood →
Alveoli**

Waste product moving to be exhaled.

Structural Adaptations:

- One-cell thick walls (Short diffusion path)
- Moist lining (Dissolves gases)
- Large surface area (Millions of alveoli)

Capillary Network:

- Rich blood supply
- Maintains concentration gradient
- Narrow diameter (Slowing RBC flow)

Study Notes: Diffusion occurs from an area of high partial pressure to low partial pressure.