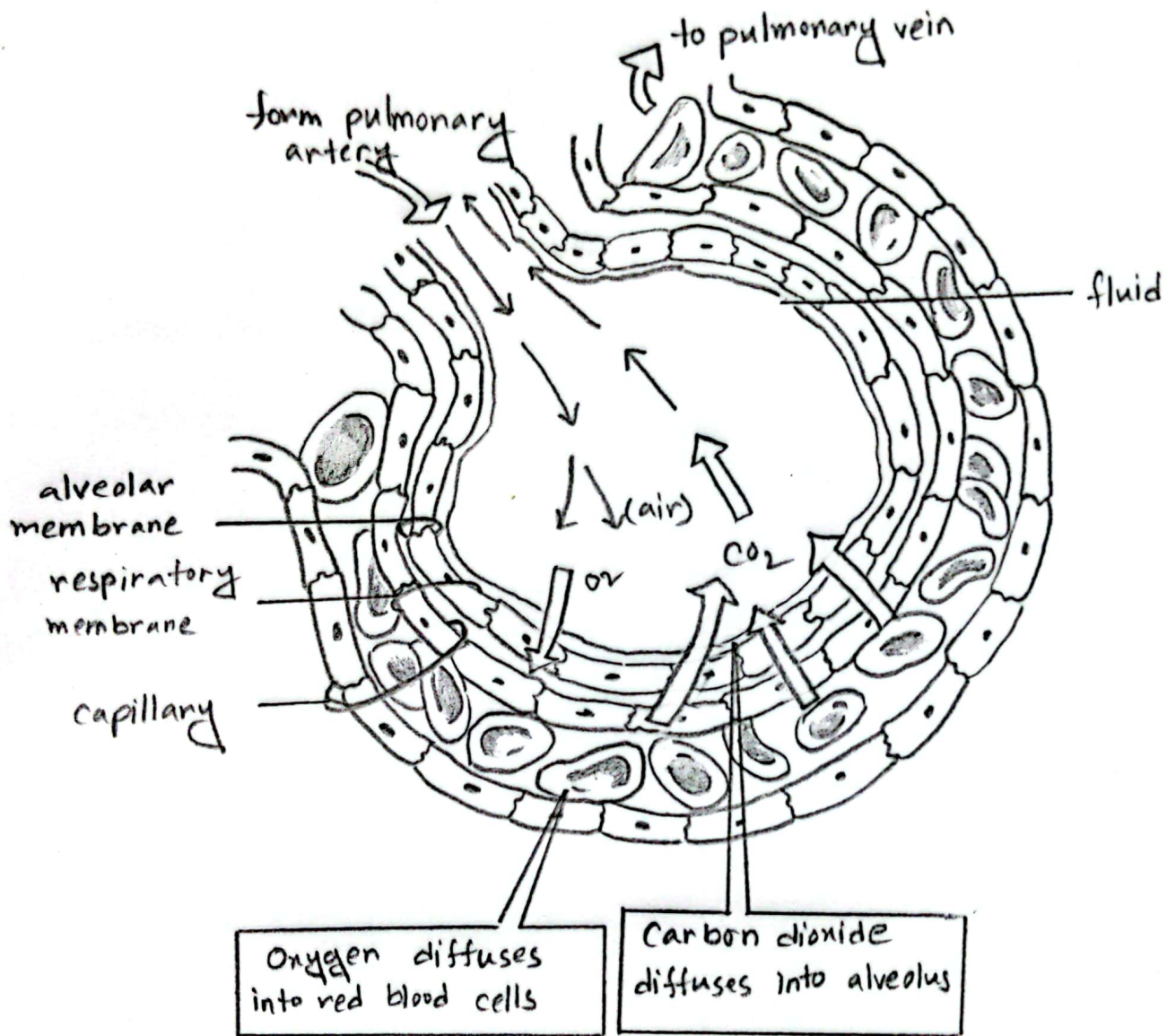


Gas exchange between alveoli and capillaries



Inhalation is required for the gas exchange. Alveolar O₂ Diffusion due to inhalation and diffusion. As a vital function of the respiratory system, it enables the blood to be filled with oxygen and filled with carbon dioxide. Effective diffusion is facilitated by the enormous surface area that the alveoli and the alveolar-capillary walls provide.