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3 Edexcel GCSE Biology



Gas Exchange

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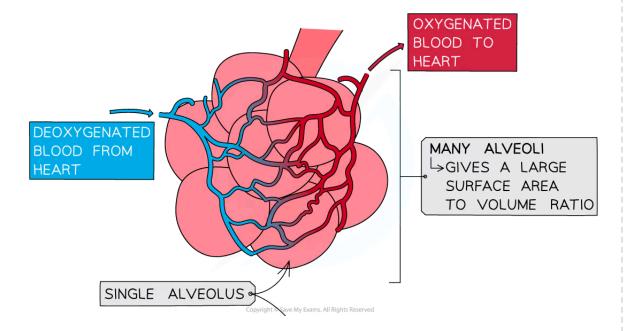
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Adaptations of the Alveoli

Your notes

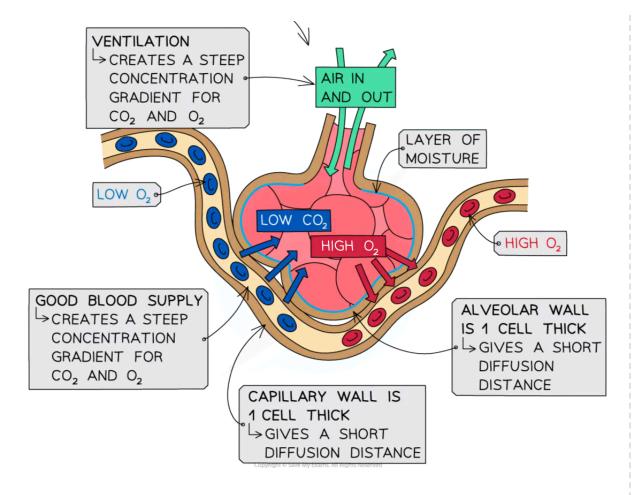
Adaptations of the Alveoli

- The lungs are the gas exchange surface in humans and so are adapted to maximise the exchange of gas by diffusion
- Inside the lungs there are many rounded alveolar sacs which give a very large surface area to volume ratio
- These **alveoli** are highly specialised structures
 - They (and the capillaries around them) have thin, single layers of cells to minimise diffusion
 distance
 - Ventilation maintains high levels of oxygen and low levels of carbon dioxide in the alveolar air space
 - A good blood supply ensures constant supply of blood high in carbon dioxide and low in oxygen
 - A layer of moisture on the surface of the alveoli helps diffusion as gases dissolve





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Alveoli are specifically adapted to maximise gas exchange