

Solution to Problems in Chapter 1, Section 1.10

1.1. The relative importance of convection and diffusion is evaluated by Péclet number,

$$Pe = \frac{UL}{D_c} \quad (S1.1.1)$$

(a) Solving for L , $L = PeD_c/U$. Assume that convection is the same as diffusion, i.e., $Pe = 1$. L is 0.123 cm.

(b) The distance between capillaries is 10^4 cm; oxygen needs to travel half of this distance, which yields a value of Pe equal to 0.0005. Therefore, convection is negligible compared with diffusion.

1.2. Since $R_{O_2} = R_{CO_2}$, equation (1.8.4) is simplified to the following:

$$C_{O_2} + R_{O_2}P_{O_2} = C_{CO_2} + R_{CO_2}P_{CO_2} \quad (S1.2.1)$$

P_{O_2} and P_{CO_2} are 95 mmHg and 40 mmHg for arterial blood and 30 mmHg, 70 mmHg for venous blood. C_{O_2} is 0.0203 and C_{CO_2} is 0.45 + 0.0001 M for men, and 0.0203 and C_{CO_2} is 0.40 + 0.0001 M for women. Based on these data, the fraction of oxygen in plasma and bound to hemoglobin is 1.5% and 98.5% in arterial blood, and 0.03% and 99.97% in venous blood for men. Corresponding values for women are 1.7% and 98.3% in arterial blood, and 0.03% and 99.97% in venous blood. Most oxygen in blood is bound to hemoglobin.

1.3. For CO_2 , 70% is moved in plasma and 30% is in red blood cell. Therefore, the total change of CO_2 is $2.270(70) + 1.960(30) = 2.10$ cm³ per 100 cm³. For O_2 , P_{O_2} changes from 95 to 30 mmHg after blood passes through lung artery. Using data in problem (1.2), the total O_2 concentration in blood is 0.0003 M in arterial blood and 0.0003 M in venous blood. At standard temperature (273.15 K) and pressure (1 atm = 101,325 Pa), 1 mole of gas occupies 22,400 cm³. Thus, the O_2 concentration difference of 0.0002 M corresponds to 1.28 cm³ O_2 per 100 cm³. While larger than the difference for CO_2 , the pressure difference driving transport is much larger for O_2 than CO_2 .

1.4. The diffusion time is $L^2/D_c = (10^4 \text{ cm})^2/(2 \times 10^7 \text{ cm}^2/\text{s}) = 0.0005$ s. Therefore, diffusion is much faster than reaction and does not delay the oxygenation process.

1.5. $V = \pi R^2 L$, and the $S = 2\pi RL$, where R is the vessel radius and L is the length.

Order	volume, cm ³	surface area, cm ²	cumulative volume, cm ³	cumulative surface area, cm ²
1	0.00158	26.27	0.00158	26.27
2	0.00365	37.32	0.00523	63.59
3	0.00739	51.44	0.01262	95.03
4	0.01091	66.23	0.02353	123.27
5	0.01739	80.64	0.04092	149.91
6	0.26497	119.36	0.30589	271.14
7	0.267733	119.36	0.57363	390.50
8	0.24132	111.83	0.81495	502.33
9	0.31019	81.17	1.12514	583.50
10	0.23666	71.75	1.36180	655.25
11	0.24671	71.99	1.60851	727.24

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