

# 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 0.0055. 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:

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

$P_{O_2}$  and  $S$  are 95 mmHg and 95% for arterial blood and 30 mmHg, 70% for venous blood.  $C_{Hb}$  is 0.0203 and  $L^* = 0.45 = 0.0001$  M for men, and 0.0203 and  $L^* = 0.40 = 0.0001$  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 stored in plasma and 30% is in red blood cell. Therefore, the total change of  $CO_2$  is  $2.270(70) + 1.060(30) = 2.10$  cm<sup>3</sup> per 100 cm<sup>3</sup>. 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 0.0001 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 cm<sup>3</sup>. Thus, the  $O_2$  concentration difference of 0.0002 M corresponds to 1.28 cm<sup>3</sup>  $O_2$  per 100 cm<sup>3</sup>. 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 <sup>3</sup> | surface area, cm <sup>2</sup> | cumulative volume, cm <sup>3</sup> | cumulative surface area, cm <sup>2</sup> |
|-------|-------------------------|-------------------------------|------------------------------------|------------------------------------------|
| 1     | 0.00158                 | 26.27                         | 0.00158                            | 26.27                                    |
| 2     | 0.00365                 | 37.32                         | 0.00523                            | 63.59                                    |
| 3     | 0.00739                 | 51.66                         | 0.01262                            | 95.25                                    |
| 4     | 0.01074                 | 66.23                         | 0.02336                            | 123.21                                   |
| 5     | 0.01278                 | 76.66                         | 0.03614                            | 149.86                                   |
| 6     | 0.01467                 | 83.26                         | 0.05081                            | 173.14                                   |
| 7     | 0.01673                 | 87.96                         | 0.06754                            | 188.79                                   |
| 8     | 0.01813                 | 91.63                         | 0.08567                            | 198.73                                   |
| 9     | 0.01899                 | 93.27                         | 0.10466                            | 207.69                                   |
| 10    | 0.01966                 | 93.79                         | 0.12432                            | 215.69                                   |
| 11    | 0.02017                 | 93.99                         | 0.14449                            | 219.59                                   |

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**E. J. Poirier**



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