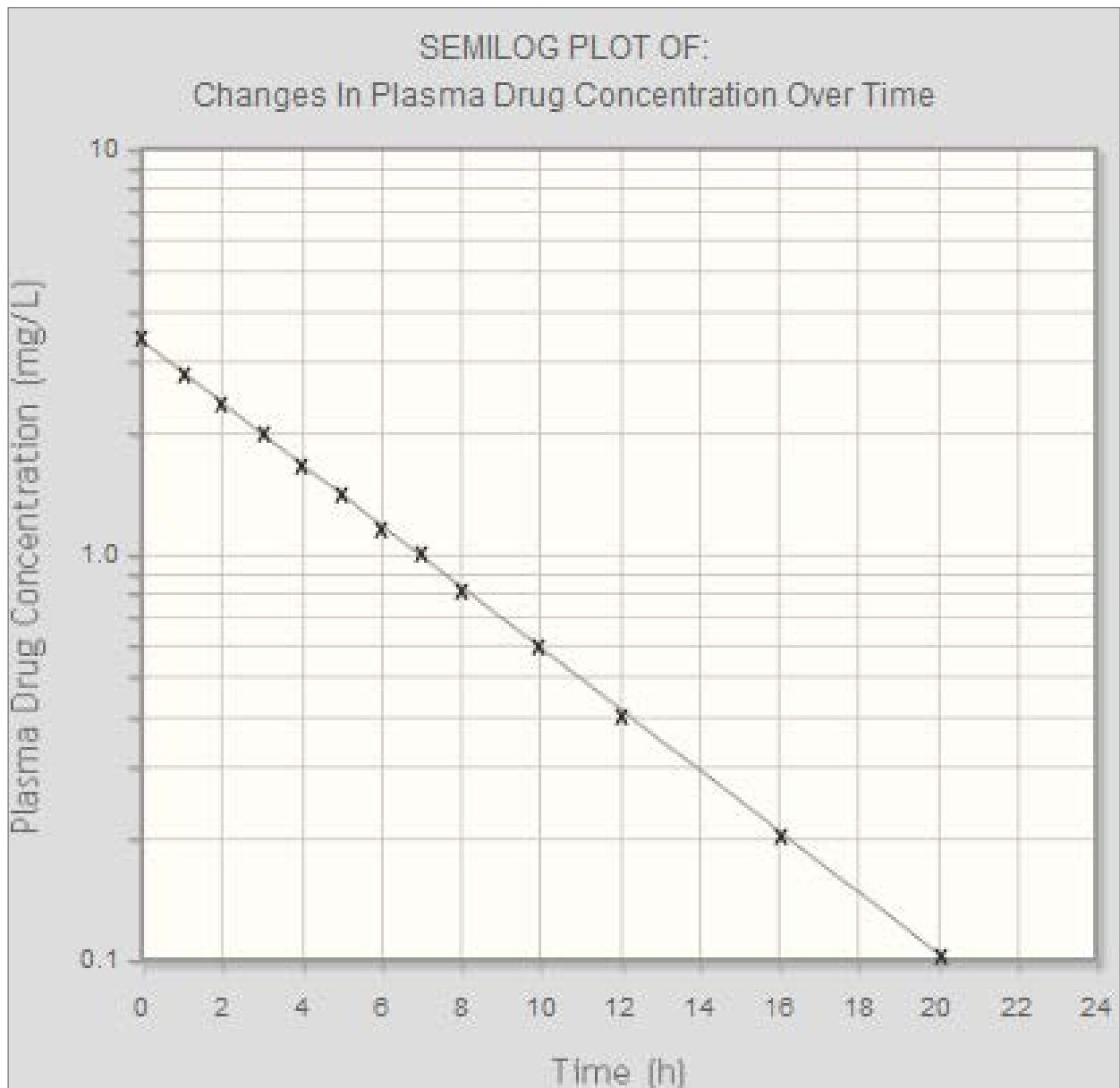
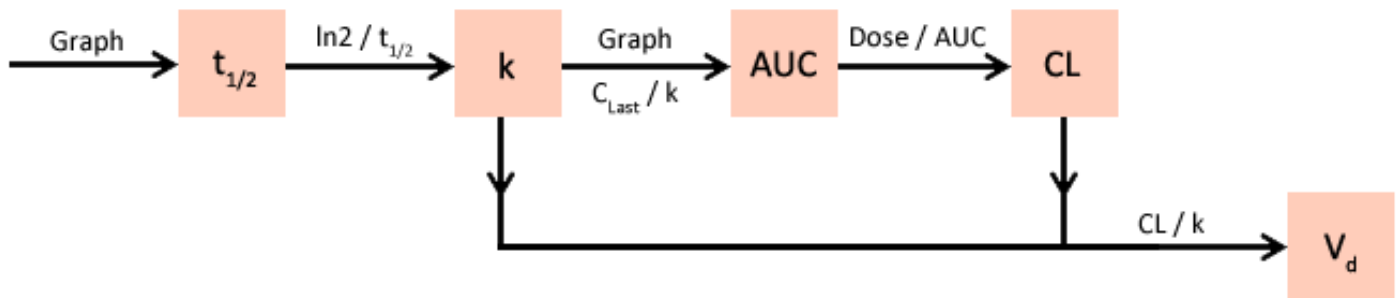


Data, Concentration-Time Curve And Equations For Single IV Bolus Exercise

Time Point Hours	Concentration mg/L	$(a + b)/2$ (Average Concentration) mg/L	Time Period For Trapezoid - hours	Area Of Trapezoid mgxh/L
0	3.3			
1	2.8			
2	2.4			
3	2.0			
4	1.7			
5	1.4			
6	1.2			
7	1.0			
8	0.8			
10	0.6			
12	0.4			
16	0.2			
20	0.1			



Order For Finding The Parameters And Equations Used



$$\text{Area Of Trapezoid} = \frac{a + b}{2} \times h$$

Area Of Trapezoid = Average Concentration \times Time Interval

$$k = \frac{\ln 2}{t_{1/2}} = \frac{0.693}{t_{1/2}}$$

$$\text{Extrapolated Area} = \frac{C_{Last}}{k}$$

$$CL = \frac{\text{Dose}}{AUC}$$

$$V_d = \frac{CL}{k}$$

$$V_d = \frac{\text{Dose}}{C_0}$$

$$C_{pt} = \frac{\text{Dose}}{V_d} \times e^{-kt}$$