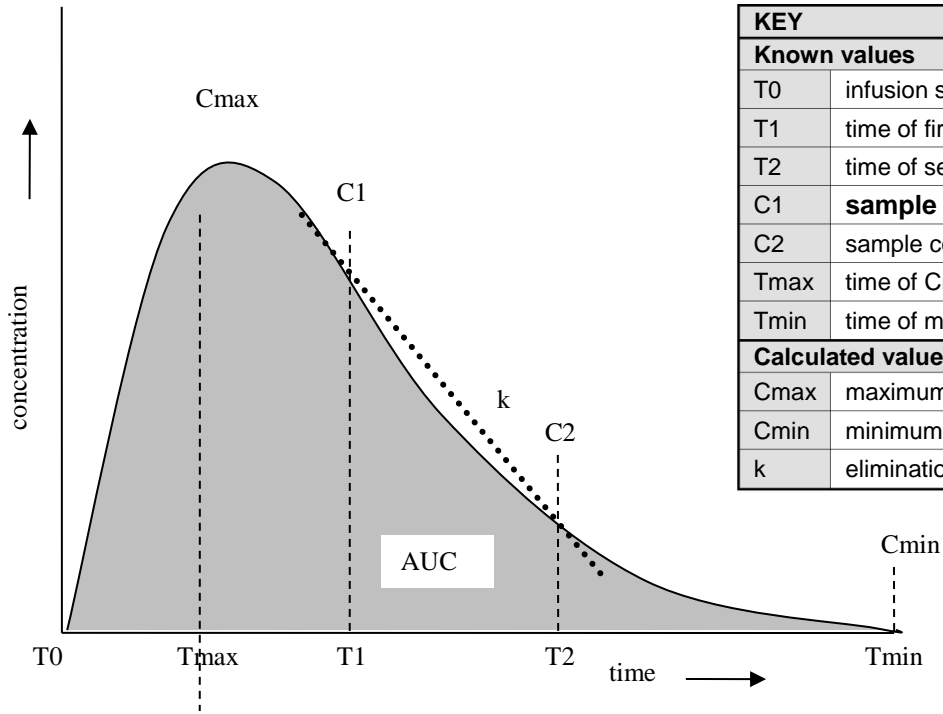


NHI WARD
 SURNAME
 FIRST NAME
 GENDER DOB AGE
 (or affix patient label)

Neonatal Vancomycin Monitoring



KEY	
Known values	
T0	infusion start time
T1	time of first sample
T2	time of second sample
C1	sample concentration at time 1 (T1)
C2	sample concentration at time 2 (T2)
Tmax	time of Cmax
Tmin	time of minimum concentration
Calculated values	
Cmax	maximum concentration
Cmin	minimum concentration
k	elimination constant

$$k = \frac{\ln C1 - \ln C2}{T2 - T1}$$

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

$$Cmax = C1 \times e^{k(T1 - Tmax)}$$

$$Cmin = C2 \times e^{-k(Tmin - T2)}$$