

PEBC PHARMACIST EVALUATING EXAMINATION

REFERENCE SHEET

The data set out here is for reference purposes and does not require any answers from the candidate.

Legend

$t_{1/2}$ = half-life

k_e = elimination rate constant

D = dose

R_0 = infusion rate

$$C = C_0(e^{-k_e t})$$

$$C_{ave} = \frac{AUC_0 \tau}{\tau}$$

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

$$t_{90} = \frac{0.105}{k_e}$$

$$Cl_t = \frac{FD}{AUC}$$

$$V_d = \frac{D}{C_0}$$

$$C_{ss} = \frac{R_0}{k_e V_d}$$

$$Cl = V_d k_e$$

$$F = \frac{AUC_{route}/D_{route}}{AUC_{IV}/D_{IV}}$$

$$CrCl \text{ (mL/min, male)} = \frac{[(140 - \text{age}) \times \text{actual body weight (kg)} \times 1.2]}{\text{serum creatinine } (\mu\text{mol/L})}$$

$$CrCl(\text{mL/min, female}) = 0.85 \times CrCl(\text{male})$$

$$BMI = \frac{\text{weight (kg)}}{\text{height}^2 \text{ (m}^2\text{)}}$$