

Report from JavaPK for Desktop

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Amikacin (Bayesian method)

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Patient's Data :

Gender : Female
Age = 38 yr
Bw = 70 kg
Ht = 170 cm
Scr = 1.8 mg/dL
Dose = 100 mg
Tau = 8 hr
Tin = 0.5 hr
Ts = 1 hr
Cs = 11.7 mg/L

Explanation :

Bw = body weight
Ht = height
Scr = serum creatinine conc.
Dose = dose for each dosing interval
Tau = dosing interval
Tin = infusion time
Ts = sampling time since infusion end
Cs = measured conc.

PK parameters :

Cl = 0.0190 L/hr/kg
Vd = 0.2242 L/kg
Final SS = 0.2196
Cs-pr = 11.6185 mg/L
Cp-ss(pr) = 12.6488 mg/L
Ct-ss(pr) = 6.6883 mg/L

Explanation :

Cl = clearance
Vd = volume of distribution
Final SS = final sum of square
Cs-pr = predicted measured conc.
Cp-ss(pr) = predicted peak conc. at steady-state
Ct-ss(pr) = predicted trough conc. at steady-state

Dosage Adjustment(C->D) :

Dose = 308.55 mg
Tau = 17.30 hr
Tin = 0.50 hr
Cp-ss = 25 mg/L
Ct-ss = 6 mg/L

Explanation :

Dose = desired/predicted dose
Tau = desired/predicted dosing interval
Tin = desired infusion time
Cp-ss = predicted/desired peak conc. at steady-state
Ct-ss = predicted/desired trough conc. at steady-state

