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APPENDIX A

Equations :

$$\text{Equation 1 : IBW (male) = } 50 + (\text{height in inches}-60) \times (2.3) \text{ kg}$$

$$\text{Equation 2 : IBW (female) = } 45.5 + (\text{height in inches}-60) \times (2.3) \text{ kg}$$

$$\text{Equation 3 : CrCl (male) = } \frac{(140 - \text{age}) (\text{weight})}{(72) (\text{Scr})} \text{ ml/min}$$

$$\text{Equation 4 : CrCl (female) = } \frac{(0.85) (140 - \text{age}) (\text{weight})}{(72) (\text{Scr})} \text{ ml/min}$$

$$\text{Equation 5 : Total digoxin clearance = } (0.8)(\text{weight}) + \text{CrCl ml/min}$$

$$\begin{aligned} \text{Equation 6 : Total digoxin clearance} \\ = (0.33)(\text{weight}) + (0.9)(\text{CrCl}) \text{ ml/min} \\ \text{(Patients with congestive heart failure)} \end{aligned}$$

$$\text{Equation 7 : } V_d \text{ digoxin = } (3.8)(\text{weight}) + (3.1)(\text{CrCl}) \text{ L}$$

$$\text{Equation 8 : } K_e = \frac{Cl}{V_d}$$

$$\text{Equation 9 : } C_{SS \text{ ave}} = \frac{F.S.D}{Cl.T} \text{ mcg/L}$$

$$\text{Equation 10 : Maintenance Dose = } \frac{(Cl)(C_{SS \text{ ave}})(T)}{(S)(F)} \text{ mcg/day}$$

$$\text{Equation 11 : Loading Dose = } \frac{(V_d)(C_{SS})}{(S)(F)} \text{ mcg}$$

$$\text{IBW = Ideal body weight (kg)}$$

$$\text{CrCl = Creatinine clearance (ml/min)}$$

$$\text{Scr = Serum creatinine (mg/dl)}$$

$$V_d \text{ digoxin = Digoxin Volume of Distribution (L)}$$

$$K_e = \text{Elimination rate constant (hr}^{-1}\text{)}$$

$$C_{SS} = \text{Digoxin concentration at steady-state (mcg/L)}$$

$C_{SS\ ave}$	=	Average digoxin concentration at steady-state (mcg/L)
Cl	=	Digoxin clearance (ml/min)
S	=	Salt form factor
F	=	Bioavailability
D	=	Digoxin dose (mcg/day)
T	=	Dosing Interval (hr)



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APPENDIX B

Drugs concomitantly with digoxin :

Diuretics

1. Loop Diuretics

Lasix[®] (furosemide) tablet 40 mg

Dose 0.5 - 1 - 2 tab. daily

maintenance 0.5 - 1 tab. daily

2. Potassium Sparing Diuretics

- Dichlortide[®] (Hydrochlorothiazide) tablet 50 mg

Dose 25 - 50 mg daily

- Dyazide[®] (Triamterene 50 mg, hydrochlorothiazide 25 mg per tablet)

Dose 1 - 2 tab. daily

3. Others

Moduretic[®] (Amiloride Hcl 5 mg, hydrochlorothiazide 50 mg)

Dose Initially 1 - 2 tab daily, Maximum 4 tab

Vasodilators

- Isordil[®] (Isosorbide dinitrate) tab. 10 mg

Dose = 10 - 30 mg orally four times a day

- Sorbitrate[®] (Isosorbide dinitrate) oral tab. 10 mg, 20 mg

Dose = 10 - 40 mg four times a day

Angiotensin Converting Enzyme Inhibitors

- Enaril[®] (Enalapril maleate) tab 5 mg, 20 mg

Dose = 2.5 - 10 mg once daily

- Accupril[®] (Quinapril Hcl) tab. 5 mg, 20 mg
Dose = Initially 5 mg, maintenance 10 - 20 mg per day
- Capoten[®] (Captopril) tablet 12.5 mg, 25 mg
Dose = 12.5 - 50 mg two - three times a day
- Renitec[®] (Enalapril maleate) tablet 5 mg, 10 mg, 20 mg
Dose = 10 - 40 mg daily
- Inhibace[®] (Cilazapril) tablet 2.5 mg, 5 mg
Dose = 2.5 - 5 mg once daily



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Vitae

Miss Pakawadee Sriphiromya was born on April 1, 1968, in Bangkok, Thailand. She graduated with a Bachelor Degree of pharmaceutical sciences in 1991 from the Faculty of Pharmaceutical sciences, Chulalongkorn University, Bangkok, Thailand.



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