

CHAPTER V

Conclusion

The results obtained from this study were concluded as follow :

1. No evidence of serious side effect was found among the eighty-three patients with heart disease included in this study. Mostly, the measured serum digoxin concentrations were within the therapeutic ranges.
2. No significant difference between the measured and predicted serum digoxin concentrations. Further study could be considered in a large number of patients to concluded the usefulness of the proposed equations.
3. When the adjustment of the dosage regimen using pharmaco-kinetic equations was performed as required in two patients, a good improvement was identified.
4. The significant difference existed between the mean value of measured serum digoxin concentration in the group of patients used digoxin alone as compared to the group of patients used digoxin together with the loop diuretic and the diuretic with ACEI.

Since interpatient variation was large. Further studies should be made to get a more definite conclusion.

Significant difference existed between the age (20-60 years, above 60 years) and the mean value of measured serum digoxin concentration in the group of patients taking digoxin 0.125 mg. per day.

5. The correlation of creatinine clearance and digoxin clearance calculated by the equations was fair ($r=0.3640$). The linear equation obtained was identified as the equation for Thai patient. The digoxin clearance could be predicted from the patients' creatinine clearance from this equation. This equation should be applied to a large number of Thai patients, the data should then be collected, simulated and a better and better correlated equation should be obtained.



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