

Chapter V

Conclusion

1. Efficacy

1.1 Gentamicin, once-daily treatment has higher efficacy than every 8-hour treatment ($p < 0.05$, by chi-square test).

1.2 Once-daily treatment of gentamicin has shown good efficacy on infectious diseases especially UTI, FUO, sepsis and febrile neutropenia.

1.3 Once-daily treatment of gentamicin has shown good efficacy on the decrement of body temperature and white blood cell count as compared to every 8-hour treatment of gentamicin.

1.4 Once-daily treatment has shown good efficacy on *Pseudomonas aeruginosa* as compared to every 8-hour treatment.

2. The duration of treatment, once-daily treatment has shown significant difference in decrement of duration of treatment as compared to every 8-hour treatment ($p < 0.05$, by unpaired t-test).

3. Nephrotoxicity

3.1 There was no significant difference between the two groups of treatment in the number of patients with nephrotoxicity but the serum creatinine of the patients in the every 8-hour treatment group increase higher than in the once-daily treatment group and the creatinine clearance of the patients in the every 8-hour treatment group decrease lower than in the once-daily treatment group so it is likely to see development of nephrotoxicity in the every 8-hour treatment group.