

CHAPTER V

CONCLUSION



1. The effects of different ointment bases upon the release of hexamidine, the rate of release was found to be : polyethylene glycol ointment > hydrophilic ointment > hydrophilic petrolatum > white ointment.

2. Cationic surfactants (benzalkonium chloride 1:1000, cetrimide 1:1000 and cetylpyridinium chloride 1:1000) also had effect upon the release of hexamidine. Benzalkonium chloride 1:1000 was the best cationic surfactant which facilitated the maximum release of hexamidine at the concentration 10 %.

3. Increasing the concentration of cationic surfactants in the formula caused a relatively increase in the amount of hexamidine released through a cellulose membrane up to 10 % without losing the stability of the formula.