Chapter 14

Summary and Conclusion
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Investigation was made upon the preparation. Characterization, stability and drug release characteristics of conventional liposomes and liposomal gel formulated. Liposomes in the size range of 601 nm to 1100 were obtained. The measured zeta potential of liposomes as a function of the concentration of cholesterol and phospholipids showed that the zeta potential start to decrease with decreasing concentration of cholesterol.

Various parameters affecting the formulations were studied which includes temperature, stirring speed, effect of salt. All these parameter had little impact on the formulation. The release studies and the stability analysis were performed.

Further on the basis of stability and release characteristics it was seen that Chitosan (2%) liposomal gel, HPMC (2%) liposomal gel, Carbopol (2%) liposomal gel and poloxamer (40%) liposome gel showed better result.

In-vivo studies were carried out using the liposomal gel. It was compared with the gel containing Zidovudine. The liposomal gel of Zidovudine showed promising results when compared with the normal gel.

This indicates that the findings may be utilized for the improvement of the therapeutic efficacy of liposomal gel as drug delivery systems for Zidovudine.