8. Future Direction

The study led to interesting findings about the hepatoprotective effect of phyto-liposomal formulations. *In vitro* and *in vivo* studies established that hepatoprotective action of the formulations was better than silymarin. Pharmacokinetic study also showed the increased bioavailability of the formulation. However, because of limitations of resources, time constraints, and ethical concerns about animal utilization some of the experiments could not be carried out.

The limitation of the study can be summarized as

- Distribution of formulation in various organs needs to be explored to understand its target specificity.
- Metabolism of silymarin-liposome may be studied to understand its rapid clearance.
- In alcohol-induced hepatotoxicity model, the treatment duration of liposome should increase for better understanding of the effect of formulations on blood picture.