

Chapter 2
Aims and Objectives

2.0. AIMS AND OBJECTIVES

The present experimental study is intended to focus on the therapeutic efficacy of arjunolic acid and vitamin B₁₂ against sodium arsenite induced oxidative stress and inflammatory response in the female reproductive organs of Wistar rats.

The following objectives are to be fulfilled:

1. To delineate the therapeutic effect of arjunolic acid and vitamin B₁₂ against sodium arsenite on female reproductive organs *in vivo* model at different doses.
2. To find out the preventive efficacy of arjunolic acid and vitamin B₁₂ in sodium arsenite treated female rats by pre-treatment mode.
3. To search out the protective effect of arjunolic acid and vitamin B₁₂ against sodium arsenite induced female reproductive dysfunction by co-administration mode.
4. To explore the curative role played by arjunolic acid and vitamin B₁₂ against sodium arsenite mediated female reproductive toxicity by post-treatment study.
5. To delineate the direct effect of arjunolic acid and vitamin B₁₂ on ovary and uterus against sodium arsenite.