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Overview and Evaluation of Antifertility Models

ShikhaBaghelChauhan*

Amity Institute of Pharmacy, Amity University, Noida, Uttar Pradesh, India.

Abstract: The aim of this review is to provide comprehensive summary of antifertility definition, hormonal contraception, Drugs and Evaluation of Antifertility drug using various in vivo models. This paper emphasizes and reviews antifertility along with female hormones estrogens and progesterone's, which plays a very crucial role in hormonal balance in females. It also covers contraception specifically for antifertility treatment and methods of contraceptives ranging from combined Oral contraceptives (COC) and progesterone only contraceptives (POC). There are various advantages and disadvantages of using these contraceptives. This paper also covers methods of evaluating contraceptives such as Pearl Index andLife time Table analysis. The paper also reviews traditional Herbal drugs exclusively used for antifertility treatment. These drugs need to be explored further for toxicity assessment. This paper discusses the various methods of evaluationof antifertility agents and in vivo models using rats and mice. AntifertilityTechniques such as estimation of sex hormones, Body and sex organs weight, Post coital antifertility activity (Pre-implantation activity), Histological analysis, Measurement of Biochemical and blood parameter, Determination of Serum cholesterol, and total proteins.This review creates a solid foundation upon which to further study the efficacy of plants that are both currently used by women as traditional antifertility medicines, but also could be efficacious as an antifertility agent with additional research and study.

Keywords: Antifertility agent; efficacy; medicinal plants, Hormonal Contraception.

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