

Abstract:

The aim of this review paper is to provide a scientific basis for the development of ovarian stimulation (OS) protocols for in vitro fertilization (IVF) in baboons. Firstly, the evidence available regarding OS for assisted reproduction in baboons is reviewed based on available published data, assessed by a Pub Med search of papers published between 1970 and 2008 using the following key words: baboon, assisted reproduction, IVF, embryo, oocyte. Secondly, we discuss how state-of-the-art or potentially new OS protocols used in humans and in rhesus monkeys may offer guidance for the development of standardized and reliable OS protocols for IVF in baboons. Based on this review and discussion, we conclude that more randomized trials are needed to improve standardization of OS protocols for IVF in baboons with respect to gonadotrophin type, dose, duration of stimulation, ultrasound monitoring, and time interval between ovulation trigger and oocyte retrieval.