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(57) Abstract :
ANTIFERTILITY AND ESTROGENIC EFFECTS OF SIDA ACUTA ROOT ON EXPERIMENTAL ANIMAL MODELS Herbal medications have been used for centuries in traditional Indian medicine to reduce fertility in several regions. Even if herbal medications have been used for a considerable amount of time, their effectiveness and safety cannot be guaranteed by this fact alone. The purpose of this research was to conduct effectiveness and safety investigations on Sida acuta root, an antifertility plant widely used in Asian countries. It was shown that the methanolic extract of the root has antifertility properties in female rats. The root of the plant was found to include alkaloids, flavanoids, sterols, and glycosides as secondary metabolites. It was shown that the extract was more effective in reducing the number of litters born (50 percent) and causing considerable anti-implantation activity (3.29) than the control in postcoital testing. An antiestrogenic activity of 265.16 mg/100g b/w was seen in immature ovariectomized rats when the extract was administered in combination with Ethinyl estradiol alone (120.66 mg/100g b/w). The methanolic extract from Sida acuta was shown to have antifertility effects and was found to be safe when used at the effective dosages found in this research.

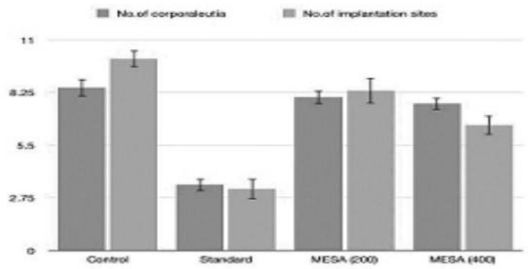

Fig. 1

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