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Evaluation of post-coital antifertility activity of *Curcuma longa* varieties and underlying mechanism thereof

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The practice of traditional medicine for the control of fertility in most parts of India is based on the uses of plant medicines for many years. The aim of the present study was to evaluate the post coital antifertility activity of different varieties of *Curcuma longa* and underlying mechanism thereof. The effects of n-hexane, chloroform and acetone fraction of hydroalcoholic extract of three different varieties i.e. *Salem*, *Krishna* and *Rajapore* of *Curcuma longa* rhizomes were studied at three different doses to evaluate their antifertility, early abortifacient, antiovolatory activities and underlying mechanism thereof. Acute toxicity and thin layer chromatographic studies of same were also carried out. All varieties found to have significant antifertility activity ($p < 0.01$). The n-hexane fraction of all varieties showed anti-implantation activity at the dose of 150 mg/kg weight whereas chloroform and acetone fraction of all varieties exhibited 100% reduction in pregnancy at the dose of 300 mg/kg body weight. Antifertility activity of test drugs was found through its antizygotic mechanism whereas all test drugs devoid of any antiovolatory and early abortifacient activity at all doses.

Biography

Shailendra Gurav has completed his PhD degree at the age of 27 years from Nagpur University, India in the faculty of Medicine. He is having about 11 years research and teaching experience. Two international books, 04 international book chapters, 13 patents, 13 research publications and 52 presentations are in his credit. He is serving as editorial board member and reviewer for more than 13 national and international journals

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