PHARMACOGNOSY RESEARCH
DOI: 10.4103/0974-8490.129029 | pp. 120-126 | April-June 2014
Published by Phcog.Net

Aphrodisiac activity of polyherbal formulation in experimental models on male rats

Himanshu Bhusan Sahoo, Subhangkar Nandy, Aswini Kumar Senapati, Sarada Prasad Sarangi, Saroj Kumar Sahoo
Departments of Pharmacology and Experimental Biology, Vedica College of Pharmacy, RKDF University, Bhopal

ABSTRACT

Objective To investigate the aphrodisiac potential of polyherbal formulations prepared from different parts of Tribulus terrestris, Curculigo orchioides, Allium tuberosum, Cucurbita pepo, Elephant creeper, Mucuna pruriens, and Terminalia catappa in Albino rats in specified ratio as suspension. Materials and Methods The different concentrations of prepared polyherbal formulations i.e. 150, 300, and 600 mg/kg and sildenafil citrate as standard (5 mg/kg) and vehicle (control) were administered orally to rats (n = 6 animals per group) for 3 weeks. Mating behavior parameters in male rats was monitored in first week and third week week of treatment pairing with receptive females. After termination of drug treatment, the mating performance, hormonal analysis, sperm count, and testes-body weight ratio were also evaluated. Results The polyherbal formulation showed a significant increase in mating behavior as well as mating performance, serum hormonal levels, sperm count, and testes-body weight ratio with dose-dependent relationship as compared to vehicle control. But the dose of 600 mg/kg of polyherbal formulation assumes closer resemblance of above parameters with the standard used. Conclusion The results of the study strongly suggest that the polyherbal formulations have a good aphrodisiac activity on rats in the above experimental models, which may be an alternative weapon for various sexual dysfunctions in future.

KEYWORDS

Aphrodisiac . mating behavior . polyherbal formulations . serum hormonal levels . sexual dysfunctions . testes-body weight ratio

REFERENCES