

Pharmacognosy, Phytochemistry & Natural Products

October 26-28, 2015 Hyderabad, India

Evaluation of antidepressant activity of aqueous extract of the *Prosopis cineraria* in albino mice

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Introduction: Depression is the most prevalent mental disorder. Basic neuroscience offers the promise of improving our understanding of disease pathophysiology, identifying novel mechanisms that can be targeted by more effective pharmacotherapies and screening of herbal sources of drugs. The leaves of *Prosopis cineraria* are selected for evaluating its antidepressant due to its traditional use in the management of various CNS disorder.

Aim: To evaluate the antidepressant activity of aqueous extract of the *Prosopis cineraria* in albino mice.

Materials & Methods: Albino mice-24, plastic cylinder, drugs-imipramine 15 mg/kg, Aqueous extract of *Prosopis Cineraria* [AEPC] 100 mg/kg and 200 mg/kg. A total of 24 albino mice will be divided into four groups of 6 animals each using forced swimming method. Group-1 served as control which received distilled water. Animals of group-2 received standard drug Imipramine at a dose of 15 mg/kg. Group-3 received the AEPC orally at a dose of 100 mg/kg. Group-4 received the AEPC orally at a dose of 200 mg/kg. Drugs were dissolved in distilled water and given orally one hour before the experiment.

Results: Analysis is done using ANOVA and post-hoc analysis. Immobility time decreased with increase in the dose of aqueous extract of *Prosopis cineraria* [AEPC] 200 mg/kg > 100 mg/kg with significant p value and is comparable with standard drug imipramine 15 mg/kg.

Biography

Pavitra R Y has graduated with an MBBS from BLDE Medical College, Karnataka. Presently, she is pursuing Post-Graduation in Pharmacology from JJM Medical College, Karnataka. She has attended various state and national conferences and presented poster in IPSCON-2013 and published a few articles.

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