

Anxieolytic Activity of Ethyl Acetate Extract of Flowers *Nerium indicum*

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Abstract : Anxiety is defined as an exaggerated feeling of apprehension, uncertainty and fear. *Nerium indicum* is a well-known ornamental and medicinal plant belonging to the family Apocynaceae. A wide spectrum of biological activities has been reported with various constituents isolated from different parts of the plant. This study was conducted to investigate antianxiety activity of flower extract. Flowers were collected and dried in shade and coarsely powdered. Powdered mixture was extracted with ethyl acetate by maceration process. Extract of flowers obtained was subsequently dried in oven at 40-50 °C. This extract is then tested for antianxiety activity at low and high dose using Elevated Plus Maze and Light & dark Model. Rats shown increased open arm entries and time spent in open arm in elevated Plus maze with treatment low and high dose of extract of *Nerium indicum* flower as compared to their respective control groups. In Light & dark Model, light box entries and time spent in light box increased with treatment low and high dose of extract of *Nerium indicum* flower as compared to their respective control groups. From result it is concluded that Ethyl acetate extract of flower of *Nerium indicum* possess antianxiety activity at low and high dose.

Keywords : anxiety, anxieolytic, social isolation, *nerium indicum*, kaner

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