

## Antidepressant Activity of an Indigenous Medicinal Plant, *Tylophora Indica* on Ethanol Induced Depression in Wistar Albino Rats

Shyamjith Manikkoth\*, Aishwarya Raja\*\*, S.N. Rao\*\*\*

Yenepoya University, Mangalore, India

E-mail: aishwarya.264@gmail.com

### Background

Alcohol is one of the important agents belonging to the group of drug abuse and drug addiction. The consumption of alcohol has been dramatically increased for the quite few years. Human society has been engulfed by the deleterious effect of alcohol. It is proven to cause behavioral abnormalities on long term use.

### Aims & Objectives

To test the antidepressant activity of *Tylophora indica* extract on ethanol [7.5% v/v] induced depression in Wistar albino rats, using an established model for depression i.e., Forced Swimming Test.

### Material & Methods

The duration of immobility (in seconds) was noted in

the test. *Tylophora indica* ethanolic leaf extract at a dose of 100 mg/kg, orally was administered concomitantly to rats receiving ethanol. The ethanol administered rats, treated with *Tylophora indica* ethanolic extract, has shown a significant reduction in the duration of immobility (in seconds), in the swimming test on comparing with alcohol alone administered rats.

### Results & Conclusions

The data suggests that alcohol administration can cause depression, which can be prevented by the co-administration of *Tylophora indica* ethanolic leaf extract. Key Words: Ethanol, Depression, Wistar albino rats, *Tylophora indica*, ethanolic extract, Antidepressant.