

Antioxidative Effect of *Trichosanthes tricuspidata* Root Extract on Sildenafil Induced Migraine in Albino Mice

P Nithiya., Karthik Mohan

Department of Plant Biology and Plant Biotechnology, St. Joseph's College (Autonomous),
Tiruchirapalli - 620 002, Tamil Nadu, India.

ABSTRACT

Migraine is considered a neurovascular disease involving the dilatation of cerebral arteries. Because of their dual role in modulating neuronal and vascular events, neuropeptides have been implied to be of importance in migraine pathophysiology. It is a highly prevalent disorder which manifests clinically as moderate to severe or severe headache attacks with frequent frontotemporal unilateral location and associated symptoms. The disability of migraine results in considerable economic and social losses. Nitric oxide, a short lived vasodilator and weak oxygen radical has been implicated in the genesis of migraine headaches. Hence the role of all enzymic and non enzymic antioxidants becomes inevitable in the treatment of migraine. *Trichosanthes tricuspidata*'s (red apple gourd) antioxidant effect was tested over Sildenafil induced migraine in female albino mice. The levels of antioxidant enzymes such as super oxide dismutase (SOD), lipid peroxidase (LPO), catalase (CAT) and glutathione peroxidase (GPx) were more promising in the treatment group fed with the root extract of *Trichosanthes tricuspidata*.

KEYWORDS

nitric oxide . oxygen radical . Sildenafil . stress

REFERENCES

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