



Review on Vinpocetine

Anubhav Dubey*, Neeraj Kumar, Ashish Mishra, Yatendra Singh and Mamta Tiwari

I, Department of Pharmacology, Advance Institute of Biotech and Paramedical Sciences
Kanpur (U.P.) - India

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Abstract

Vinpocetine is a synthetic ethyl ester of apovincamine. It is extracted from the periwinkle plant. Vincamine is extracted from either the seeds of *Voacanga-Africana* or the leaves. Vinpocetine is an herbal supplement used to treat various neurological disorders such as Alzheimer's and Parkinson's disease. Vinpocetine has also anti-inflammatory, analgesics, antioxidant property and treat various thinking and memory problem. The drug has neuroprotective property thus it is used for memory impairment. Vinpocetine drug dilates blood vessels and promotes cerebral blood flow. Pharmacodynamics, Pharmacokinetic and adverse effects were discussed.

Keywords: Vincamine, neuroprotective, memory enhancement and cerebral blood flow *Voacanga-Africana*

Introduction

Vinpocetine was prepared under the trade name cavinton in 1978^[1]. Vinpocetine widely used in Germany, Russia, Japan, Hungary for the treatment of the cerebrovascular related disorder. Vinpocetine is a semi-synthetic derivative obtained from vincamine alkaloid. Vincamine present in the aerial part of the vinca minor and plant belongs to the Apocynaceae family. Vinpocetine is approved by the European and British pharmacopoeias. Vinpocetine as well as vincamine are used in Europe, Japan and Mexico as a pharmaceutical agent for the treatment of cerebrovascular and cognitive disorders.^[2] Catecholamine levels were similarly increased 4-6 hours following the administration of vinpocetine. The authors also reported an inhibition of phosphodiesterase enzyme (PDE) suggesting a

possible mechanism by which cerebral ATP levels seemed to be increased after administration of the compound.^[3]

Modern lifestyle has raised life hope but also increase chronic harm full disease, therefore, increasing chronic Pharmaceutical usage, it is also called some time nootropic agent meaning cognition enhancer.

*Corresponding Author

E.mail: anubhavdwivedi803@gmail.com