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**(57) Abstract :**

Polyherbalism is an ancient theory in Ayurvedic medicine that is used to treat a wide range of illnesses. These days, people all around the world are dealing with a wide variety of difficulties related to the central nervous system. The polyherbalism concepts that were used in Ayurvedic medicine were well-known for their efficacy. 10 Within the scope of this investigation, a brain tonic was formulated in the form of a polyherbal syrup. Several different formulations of polyherbal syrup were developed and tested. In order to formulate the product, a total of five plants were chosen: Zingiber Officinale, Piper Cubeba, Cinnamomum Zeylanicum, Anacyclus Pyrethrum, and Terminalia chebula. In order to investigate the neuroprotective 15 properties of these herbs, numerous animal models have already been utilized. Maceration was followed by the preparation of hydroalcoholic extracts, which were then subjected to phytochemical assays and IC50 concentrations. A variety of characteristics, including physical appearance, pH, density, viscosity, specific gravity, clarity test, and FTIR analysis of active phytoconstituents, were analysed 20 after the formulation was made and evaluated. Following the confirmation of the quality control parameters, we carried out the acute oral toxicity (423) test in accordance with the standards provided by the OECD. Also evaluated neuroprotective effect of formulation against cuprizone induced multiple sclerosis in rat. In that found neuroprotective effect supported by histopathology and 25 behavioural study. After doing this evaluation, we have come to the conclusion that this polyherbal syrup formulation will be utilized in the future for the purpose of conducting preclinical evaluations of neuroprotection in a variety of animal models in order to check the pharmacological effects.

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