SRDHS
SOCIETY FOR RESEARCH DEVELOPMENT IN HEALTH SCIENCE

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Sponsored

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Organized By
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Dadasaheb Balpande College of Pharmacy
(Degree and Diploma),
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Theme:
"Invigorating Research in Pharmaceuticals: Reasonable Industrial Approach"

Venue: Hotel RE-GEN-TA, CENTRAL Nagpur. Jagnade Square, Nandanvan, Nagpur, Maharashtra, India.

Souvenir and Abstract Book

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PHYTOPHOSPHOLIPID COMPLEX FOR ENHANCEMENT OF BIOACTIVITY OF PHYTOCONSTITUENTS

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ABSTRACT

This review highlights the unique property of phospholipids in drug delivery, their role as adjuvant in health benefits, and their application in the herbal medicine systems to improve the bioavailability of active herbal components. Amphipathic phospholipids mainly act as "ushers" of active constituents to help them pass through the outer membrane of GIT cells, eventually reaching the blood. After forming phospholipid complexes, the membrane permeability and oil-water partition coefficient of constituents are greatly improved. Thus, phytophospholipid complexes are more readily absorbed and generate higher bioavailability compared to free active constituents. FT-IR, was implement to analyze the presence of any molecular alterations in middle of the formulation elements. Solvent vaporisation, salting out or anti solvent precipitation and mechanical dispersion are the leading method of preparation of phytophospholipid complex. Berberine is an effective natural option to other synthetic hypoglycaemic agent. Phytosomes are better to liposomes owing to complex development ratio of component and phospholipids is 2:1 and 1:1 individually, lot better uptake and stability profile. We also discuss latest advancement in research on the production, evaluation and improved bioaccessibility of phytophospholipid complexes.

Keywords Phytophospholipid-complexes, Active constituents, Bioavailability.

FORMULATION AND EVALUATION OF POLYHERBAL TABLETS FOR THE TREATMENT OF THYROID DISORDERS

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ABSTRACT

This study aimed to develop and evaluate polyherbal tablets using herbal extracts for the treatment of thyroid disorders. The objective of present research work was to formulate and evaluate polyherbal tablets for the treatment of thyroid disorders. Kanchanara, Guggul, Jatamansi, Trikatu, Brahmi, Amla, Amulthus, Chandrashoor, Methi and Giloy extracts were selected for the formulation of tablets to overcome the symptoms associated with thyroid disorders. The ethanolic extracts were subjected to qualitative chemical investigation. The tablets were prepared by wet granulation technique. Film coating of tablets were carried out using Aquadry brown coating solution for taste masking and physical protection of tablets. Granules, uncoated tablets and coated tablets were evaluated for flow property, friability, dimension, hardness test, disintegration test and drug content using HPTLC. The granules were showed good flow properties. The friability of uncoated tablets was found to be 0.06976%. The disintegration time for uncoated and coated tablets was found to be 13.95 and 22 min, respectively. This formulation can find its application as thyroid supplement which can be given easily and safely to patients suffering from thyroid disorders.

Keywords Thyroid disorder, Polyherbal tablet etc.