

# Formulation and Evaluation of Neem Drug Loaded Microsponges Gel for Topical Treatment of Antifungal Activity

**Prof. Poonam Ankush Jadhav, Komal Hiranman Hake, Shambhuraje Manoj Dhumal, Kalyani Bhagwat Jadhav, Sheetal Rajesh Ghorad**

PDEA Shankarrao Ursal Collage of Pharmaceutical Sciences and Research Centre, Kharadi, Pune

**Abstract:** *The purpose of present study aims to designs novel drug delivery system containing an antifungal drug and to prepare micro sponge gel . Microsponge delivery system is unique technology for controlled release of active agents . As compare to conventional formulation, the microsponge gel is expected to remain on the skin for a longer time, gradually releasing drug over the time. Fungal infection is a common in these days , fungal infection occur when an individual fungus takes over an area of the body and is too much for the immune system to handle. Fungi can live in the air, soil, water, and plants. There are some fungi that live naturally in the human body . Prepared formulation was evaluated for pH, spreadability , viscosity, and ex-vivo drug deposition study.*

**Keywords:** Neem Extract , Microsponge, Antifungal drug , Microsponge gel, Topical delivery

