

**MUCOADHESIVE MICROSPHERES: A REVIEW ON EMERGING TREND IN NASAL DRUG DELIVERY****Anjali Mishra*, Hariom Sharma and Monika Seti**

*Department of Pharmaceutics, Innovative College of Pharmacy, Plot No-6, Knowledge Park-II, Greater Noida-201 306, Uttar Pradesh, India.

Article Received on
10 Oct. 2019,

Revised on 30 Oct. 2019,
Accepted on 20 Nov. 2019,

DOI: 10.20959/wjpps201912-15182

Corresponding Author*Anjali Mishra**

Department of
Pharmaceutics, Innovative
College of Pharmacy, Plot
No-6, Knowledge Park- II,
Greater Noida-201 306,
Uttar Pradesh, India.

ABSTRACT

Over the past few decades, there has been a considerable shift from conventional drug delivery system to novel drug delivery system in pharmaceutical field. The main reason behind this approach is to increase the safety, efficacy and reduce the toxicity of drugs. Microspheres are one such novel drug delivery system that increases plasma drug concentration of drug, prolongs its action, which in turn reduces dosing frequency of dosage forms. Patient compliance also increases when sustained release action is attained. The advantage of mucoadhesive microspheres is that, it remains in close contact with the mucous membrane due to bio-adhesion thus releasing the drug at targeted site and increasing bioavailability. The aim of this article is to understand mucoadhesion and to emphasize its application in nasal

drug delivery system.

KEYWORDS: Microspheres, Mucoadhesion, Patient compliance, Bioavailability, Nasal Drug Delivery.

INTRODUCTION

The aim of pharmacist is to develop a formulation that has maximum bioavailability with minimum side effects. The objective of this article is to review a dosage form that promises to increase patient compliance by reducing the frequency of dosing and with increased bioavailability. In order to contribute to the novel drug delivery system formulations, an approach towards reviewing microspheres is being done in this article.

The concept of packing microscopic quantity of material within microspheres dates to 1930s,