

A Review : Mucoadhesive Drug Delivery System

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Abstract: *Mucoadhesive drug delivery systems interact with the mucus layer covering the mucosal epithelial surface, and mucin molecules and increase the residence time of the dosage form at the site of absorption. The drugs which have local action or those which have maximum absorption in gastrointestinal tract (GIT) require increased duration of stay in GIT. Thus, mucoadhesive dosage forms are advantageous in increasing the drug plasma concentrations and also therapeutic activity. In this regard, this review covers the areas of mechanisms and theories of mucoadhesion, factors influencing the mucoadhesive devices and also various mucoadhesive dosage forms*

Keywords: Mucoadhesion, theories mucoadhesive dosage forms

REFERENCES

- [1]. Checkering D.E III, Mathiovits E. Fundamentals of bioadhesives. In: Lehr K.M, editor. Bioadhesive drug delivery systems-Fundamentals, New Approaches and Developments. New York: Marcel Decker; 1999. paragraph 1-85.
- [2]. Ahuja A, Khar RK, Ali J. Mucoadhesive drug delivery systems. Drug DevInd Pharm 1997;23:489-515.
- [3]. Veillez F, Kayla YN, Jacques Y, Deschusses J, Bouri P. Factors and strategies to improve oral absorption of peptides. Eur J Pharm Biopharm2001;51:93-109.
- [4]. Punita S, Girish Y. Polymers in mucoadhesivebuccal drug delivery systems: Areview.Int J Res Pharm Sci 2010;1:170-86.
- [5]. Smart JD. Basics and mechanism of mucosal adhesions. Advanced Drug Delivery ED. 2005;57:1556-68.