NEED FOR THE STUDY

Candidiasis, most commonly associated with immunocompromised patients affects worldwide to a major extent. The major forms of candidiasis are oral candidiasis, vaginal candidiasis. Miconazole is the drug of choice for all kinds of candidiasis and effective against all Candida species. The various dosage forms of miconazole are tablets, gels, ointment, buccal tablets, vaginal suppositories, oral gels are in market. These dosage forms are site specific and should be used based on the disease location. There is no single drug delivery system available that can be given for either buccal or vaginal route. Thus the hybrid drug delivery systems can offer multipurpose use for both oral and vaginal candidiasis.

Cancer, a major curse throughout worldwide affecting all types of organs, races and sex. One of the treatment options for cancer is chemotherapy. As a part of adjuvant therapy for various cancer types, 5-Fluorouracil is the prime drug over many decades for treating oral cancer, cervical and colorectal cancer. The available 5-fluorouracil dosage forms should be administered either by parenteral or by oral route, thus producing toxic side effects. Hence there is need for the development of dosage form than can be used viz., buccal, vaginal and rectal route.

The developed hybrid drug delivery system provides multipurpose use for the patient and also minimizes the dose dumping and reduces the frequency of administration. Hence, increasing the efficacy, safety, quality and expected a cost effective medication.