

Introduction

Nowadays, various pharmaceutical dosage forms have been developed for increasing patient compliance. Drug delivery systems are increasing rapidly. There are various drug delivery routes, among them oral drug delivery considered the safest, economical, and convenient approach that's why it receives massive patient compliance and widely manufactured in the industry. There are various advantages of oral routes are- low cost of therapy, ease of administration, accurate dosage, self-medication, pain avoidance, inevitably leading to high levels of patient compliance. We administered various dosage forms like tablets, capsules, syrups through the oral route. But some patients have a problem regarding swallowing normal Dosage forms. There are very a smaller number of patients who have suffered from 'Dysphagia' and they may believe some diseases like - Parkinson, motion sickness. Mouth dissolving tablets are designed in such a way that it does not require any water or fluid for the intake. It dissolves in the saliva within 60 seconds. Pediatric, geriatric, bedridden patients and busy patients, people who are traveling and don't have the facility to carry the water get benefit from this kind of dosage form [1].

Ideal properties of mouth dissolving tablets [2]

- MDT allows high drug loading and it is very compatible.
- It also masks the taste.
- As it is orally dissolved so self or after oral administration, it doesn't leave any residue in the mouth.
- The processing and packaging costs of tablets are very low.
- MDT must be less sensitive to temperature and moisture.

Parameters for mouth dissolving drug delivery system [3]

There are some basic parameters which are considered when the fast-dissolving tablet is designed. These are the following:

- The tablet must have quick disintegrating or dissolving property and there should not be any requirement of water during intake.
- It should be palatable with its taste.
- It should not be easily fragile in other words it should withstand all conditions.
- It should have a pleasant feeling in the mouth.
- After administration orally there should not contain any residue in the mouth.
- The formulation should withstand temperature and humidity.

- It must be economical with the aspect of manufacturing and patients.

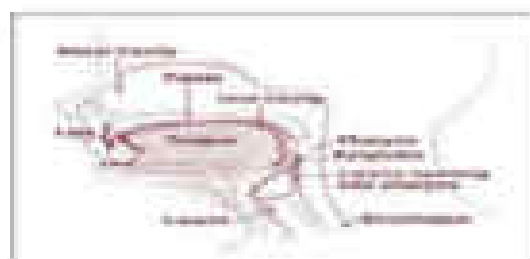


Fig 1: Diagram of the pharynx