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Breaking the Barrier of Hepatic Metabolism by the Application of a Novel Concept of Buccal Patches

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Buccal drug delivery systems are design to deliver drugs systemically or locally via buccal mucosa. In which the drugs release can occur when a dosage form is placed in the outer vestibule between mucosa and gingival. among the various route of drug delivery, oral route is perhaps the most preferred to the patient and the clinical alike. Some advantages of peroral administration are hepatic first pass metabolism and enzymatic degradation within GIT. Buccal drug absorption occurs by passive diffusion of the nonionized species. There are two type of buccal dosage form, they are matrix type and reservoir type. The component which are mainly used in the formulation of buccal dosage form that are drug substance, bio adhesive polymer, backing membrane permeation enhancer. Mainly two methods which are used in the preparation of buccal patches including solvent casting method and direct milling method. The evaluation test methods are surface PH, thickness measurement, swelling study, thermal analysis study, morphological characterization, water absorption capacity test, ex-vivo bioadhesion test, in vitro drug release, permeation study, ex-vvo mucoadhesion time and stability study in human saliva. Due to various advantages of buccal patches, these are using extensively in now-a-days.