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Applicable of Polymers in the Formulation and Characterization of Amlodipine Besylate Oral Fast Dissolving Films

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Abstract: The purpose of the present work is to formulate and enhance the drug release of Amlodipine besylate by the incorporation of synthetic polymers in the oral dissolving films (ODF) for use in specific populations viz. geriatrics and patients experiencing difficulty in swallowing.The oral dissolving films loaded with Amlodipine besylate were prepared by solvent evaporation method using hydroxy propyl methyl cellulose-3cps and 5cps by adding suitable plasticizer PEG 400 and glycerin. The prepared oral dissolving films were evaluated for drug content, weight variation, thickness, pH, folding endurance, *In vitro* drug release and stability studies.The evaluation parametersof Amlodipine besylate were found to be satisfactory in terms of drug content, thickness and pH. Comparison of the dissolution profiles of Amlodipine besylate oral dissolving films in phosphate buffer (pH 6.8).Effectivedrug release was achieved for Amlodipine besylate by way of preparation of oral dissolving films by solvent evaporation method. AML5 showed the highest drug release at the 15 min time point.The AML5 oral dissolving film with higher amount of superdisintegrantPolyplasdone XL-10 and SSG showed fastest onset of drug release.

Keywords: Amlodipine oral dissolving films, solvent evaporation method and Dissolution rate.

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