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Formulation and Evaluation of Fast Dissolving Films of Dextromethorphan Hydrobromide and Chlorpheniramine Maleate

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Abstract: The main objective of the study was to formulate and evaluate fast dissolving film containing Chlorpheniramine maleate and Dextromethorphan hydrobromide. Fast dissolving films were prepared by solvent casting method without any organic solvents. Compatibility of Chlorpheniramine maleate and Dextromethorphan hydrobromide combination and both the drugs with polymer was confirmed by FTIR study and DSC study. Prepared films were analyzed for various parameters like weight variation, thickness, folding endurance, drug content, tensile strength, % elongation, disintegration time and % Drug release. All the formulations have good folding endurance. Also no any major difference in weight variation as well as thickness. Surface pH was found near to 7 for all formulations. Tensile strength and % Elongation found satisfactory in all batches. From all the formulations, formulation F17 which contain 200 mg of HPMC 3 cps film forming polymer was optimized because it gives maximum drug release in 10 min which was maximum drug release in less time in all formulations. Also F17 have disintegration time 26 sec and have good mechanical properties. Drug content also found within limit. So F17 was optimized batch.

Key Words: Chlorpheniramine maleate, Dextromethorphan hydrobromide, fast dissolving Film.

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