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Formulation and evaluation of mouth dissolving tablet of donepezil with super disintegrants

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In the present work, mouth dissolving tablet of donepezil was designed with a view to enhancing patient compliance, by direct compression. In this method, crospovidone and croscarmellose were used in combination as super disintegrants. The different formulations of tablets were evaluated for hardness, friability, drug content uniformity, wetting time, water absorption ratio, *in vitro* dispersion time. Out of all the formulations the drug with combination 4% of the super disintegrants found to be high dissolving tablet than other formulations. These formulations were tested for *in vitro* drug release pattern (pH 6.8 phosphate buffer). Among these formulations, only one show an excellent result with a free drug release, this is prepared by direct compression method. The stability studies prove that there are no greater significant changes in drug content and *in vitro* dispersion time. The results show that donepezil is a safe and effective with the combination of super disintegrants in the treatment of Alzheimer's disease.

Biography

Rubina Fatima was graduated in Bachelors of Pharmacy (B Pham) from MRM Collage of Pharmacy in 2012 and during her studies she got an opportunity from her institute to work as a "Trainee" in Quality control at Dr Reddy Laboratory. During her bachelor's she have successfully worked on project "Formulation and evaluation of mouth are dissolving tablet donepezil with superdisingredents" After her first achievement, she received her Pharmacy license from Pharmacy council of India (PCI). Later she moves forward in her career to pursue her Master in Pharmacy with a major in Pharmaceutics and successfully completed the same with a distinction in 2015. She is an Assistant Professor in MRM Collage of Pharmacy affiliated to JNTUH. She is an active researcher, a teacher of pharmaceutical and Alliance healthcare professional member.

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