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Advance microneedles integrated transdermal patch for fast onset of Ivermectin

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The purpose of the study is to prepare an advanced transdermal delivery system contribution to medical practice; it has yet to fully achieve its potential as an alternative to oral, delivery and hypodermic injections. The importance of a transdermal delivery patch essentially provides rapid action with advance microneedles using photolithography based process, in which microneedles create micrometer-sized channels in the skin to deliver Ivermectin rapidly. While the reservoir patch holding the bulk of drug enables the higher drug loading and carries on to release the drug for a prolonged period. There are no significant changes in the physicochemical evaluation, *in vitro* drug release was studied by flow through diffusion cell with microneedles, horizontal type skin permeation, and skin irritation was performed in hairless albino rats. The formulation with Polyvinylpyrrolidone (PVP) shows a desirable result with fast release of Ivermectin. The results show that Ivermectin is safe and effective with advance microneedles integrated transdermal patch in the treatment of rosacea with few side-effects and good compliance with long-term efficacy.

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 superdisintegrants" 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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