

# Review on Transdermal Drug Delivery System

**Sonali Ankush Ugale, Dr. Shekhar S. Pandav, Dr. Gajanan S. Sanap**

Late Bhagirathi Yashwantrao Pathrikar College of Pharmacy, Pathri, Chhatrapati Sambhajinagar, India

**Abstract:** *A transdermal drug is an adhesive patch with a prescription that is applied to the skin in order to penetrate the epidermis and enter the bloodstream. This frequently encourages the body's wounded area to mend. A benefit of a topical medication The advantage of this delivery method over oral, topical, intravenous, intramuscular, etc. medication delivery is that the patch allows for a controlled release of medication into the patient. This is typically achieved by either a porous membrane covering a medication reservoir or by body heat melting thin layers of medication embedded in the adhesive. Transdermal medication delivery allows for a consistent blood level profile, which minimizes systemic side effects, regulated drug release into the patient.*

**Keywords:** transdermal drug

## REFERENCES

- [1]. Dr. Shailesh Thanaji Prajapati, Dr. R. Manivannan, Dr. Ramesh Ganpati Katedeshmukh. Novel drug delivery system Thakur publication PVT.LTD. LUCKNOW
- [2]. Dr. K. JESHINDHA BEYATRICKS, Mrs. ASHWINI S. JOSHI, Nirali Prakashan, novel drug delivery system.
- [3]. Dr. Aijaz A. Shekh, Dr. Subhash V. Deshmane, Dr. Md. Rageeb Md. Usman, Dr. Kailash R. Biyani, Novel drug delivery systems, pee vee, 2019
- [4]. Williams AC, Barry BW. Penetration enhancers, *Advanced drug delivery reviews* 2004, 56, 603-618.
- [5]. Shin SC, Shin EY, Cho CY. Enhancing effects of fatty acids on piroxicam permeation through rat skins, *Drug Dev Ind Pharm.* 2000, 26, 563-566.
- [6]. Pocius AV. Adhesives. In: Howe-Grants M, Ed. *Kirk-Othmer Encyclopedia of Chemical Technology*. New York, Wiley-Interscience. 1991; 445-466.
- [7]. Walters KA. Transdermal drug delivery systems In: Swarbrick K, Boylan JC, eds. *Encyclopedia of pharmaceutical technology*. New York, Marcel Dekker Inc. 1997; 253-293.
- [8]. Arunachalam A, Karthikeyan M, Kumar VD, Prathap M, Sethuraman S, Ashutoshkumar S, Manidipa S. Transdermal Drug Delivery System: A Review. *Current Pharma Res.* 2010; 1(1):70-81.
- [9]. Raj, G. and Raveendran, R. (2019). *Introduction to Basics of Pharmacology and Toxicology Volume 1: General and Molecular Pharmacology: Principles of Drug Action*. Springer Nature Singapore Pte Ltd.
- [10]. <https://www.pharmatutor.org/articles/review-article-on-transdermal-drug-delivery-system> 11. Advantage And Disadvantage Of Transdermal Delivery System (drugxpert.blogspot.com)