REG. NO: D7635654-AFINJ JOHP-ISSN: 2348-7704

HEB JOHP

Journal of Hospital Pharmacy
An Official Publication of Bureau for Health & Education Status Upliftment
(Constitutionally Entitled As Health-Education, Bureau)

3D drug printing methods and its applications in pharmaceutical and biomedical area

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ABSTRACT:

Three-dimensional (3D) Printed medicines are revolutionizing the pharmaceutical sector as became powerful technology to produce personalized treatments for patients, by considering factors like age, weight, and genetic makeup. 3D printing has various applications like designing of tissue and organs, diagnostics, designing of biomedical tools, and the manufacturing of various dosage forms. The focus of this article is to give general idea about 3D printing methods and its application in various sectors.

Key words:3D printing technology, 3D printed drug products, Stereo lithography (SLA), Fused deposition modelling (FDM), Inkjet printing, Selective laser sintering (SLS), Hot Melt Extension (HME), Zip dose technology, Steps in 3D bio printing process, Challenges faced by 3D printing technology

Access this Article Online	Quick Response Code:
Website: http://www.journalofhospitalpharmacy.in	
Received on 08/07/2021	
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