IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.301
Volume 3, Issue 1, November 2023

Fast Dissolving Tablets: Unveiling Emerging Trends and Pioneering Innovative Approaches for Enhanced Patient Experience and Therapeutic Efficacy

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Abstract: *Fast Dissolving Tablets (FDTs) represent a revolutionary advancement in drug delivery, offering rapid disintegration, enhanced bioavailability, and improved patient compliance. This review explores the multifaceted landscape of FDT development, encompassing formulation strategies, manufacturing techniques, novel drug delivery systems, and their potential implications for patient-centered pharmaceutical design. The role of interdisciplinary collaborations among pharmaceutical scientists, material engineers, and formulation experts is highlighted, showcasing how their combined expertise shapes the design and optimization of FDTs. FDTs hold particular promise in personalized medicine, enabling tailored dosing regimens and facilitating precision therapies. Integration into telemedicine and digital health platforms further enhances patient-centric care, while the potential of FDTs in addressing challenges within pediatric, geriatric, and neurologic populations underscores their versatility. As FDTs continue to evolve, driven by cutting-edge research and innovation, they offer a glimpse into a future where medication administration is convenient, effective, and aligned with individual patient needs. This review underscores the transformative potential of FDTs in shaping the landscape of modern pharmaceutical design and advancing patient outcomes.*

Keywords: Fast Dissolving Tablets, Drug Delivery, Patient Compliance, Personalized Medicine, Interdisciplinary Collaboration, Pharmaceutical Innovation

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