



[返回目录](#) [全文阅读](#)

固体脂质纳米粒在注射给药中的发展和应用

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摘要: 目的 介绍固体脂质纳米粒 (solid lipid nanoparticles, SLN) 在注射给药中的发展和应用状况。方法与结果 参考了29篇国内外有代表性的文献, 综述了迄今SLN研究历程, 其中包括SLN制备工艺、稳定性、生物利用度等, 对比了几类胶体注射给药系统, 指出固体脂质纳米粒在新药开发中的地位以及其在注射给药中的发展和应用。结论 以生理相容的高熔点脂质为骨架材料制备的固体脂质纳米粒是一种极有发展潜力的新型给药系统的载体, 其在注射给药中有广泛的应用前景。

关键词: 药剂学; 固体脂质纳米粒; 注射给药途径

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[contents](#) [full-text](#)

Development and application of solid lipid nanoparticles in the field of injection administration

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Abstract: Objective To introduce the development and application of solid lipid nanoparticles (SLN) in the field of injection administration. **Methods and Results** The formulation of SLN has lots of attractive characteristic, such as long-acting, low toxicity and good targeting. In this article, some important development about SLN, including preparation, stability as well as bioavailability, had been reviewed. Compared with several kinds of colloid disperse system that used in injection administration, we pointed out the application, important status and the development of SLN in the area of injection administration. **Conclusions** Solid lipid nanoparticles (SLN), prepared with biodegradable high-melting point lipids, has received more and more attention and been regarded as one of the most promising targeting and controlled-release DDS carriers. It will occupy the great markets of the world in the future.

Key words: pharmaceutics; solid lipid nanoparticles; injection administration

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