

## 一贯煎定时释药缓释微丸的制备及释放性质的考察

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收稿日期 2008-5-6 修回日期 2008-10-30 网络版发布日期 2008-11-30 接受日期 2008-6-6

### 摘要

目的 制备一贯煎定时释药缓释微丸并考察体外释药特性。方法 将方药提取精制后以挤出滚圆法制备一贯煎微丸,采用水溶性材料为内包衣溶胀层,乙基纤维素水分散体(Surelease)为外包衣控释层,利用流化床包衣制备一贯煎定时释药缓释微丸,并考察影响其体外释药的因素。结果 保持以低取代羟丙基纤维素(L-HPC)为溶胀层包衣材料增重20%不变,分别制备控释层增重为0%、20%和24%的包衣微丸均匀混合,装入硬胶囊得一贯煎定时释药缓释制剂;对其进行释放度测定,一贯煎定时释药缓释微丸中梓醇和阿魏酸体外释放的f2值为78.2,两成分的释放无显著性差异,并具有明显缓释特征。结论 制备的一贯煎定时缓释微丸可以使其中的不同成分在缓释的同时达到同步释放,符合传统中药理论。

关键词 [药剂学](#) [一贯煎](#) [缓释](#) [微丸](#) [流化床](#) [定时释药](#)

分类号 [R94](#)

## Preparation and dissolution research of Yiguanjian sustained- release pellets prepared by using time-controlled release

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### Abstract

Objective Prepare Yiguanjian sustained-release pellets of time-controlled release and investigate the properties of drug release in vitro. Method Prepare Yiguanjian pellets by extrusion-spheronization after refining the extracted material medica. Then, prepare Yiguanjian sustained-release pellets in a fluid-bed coater using water swelling material as the inner swelling layer and ethylcellulose aqueous dispersion (Surelease) as the outer controlled layer. The factors effecting the drug-release in vitro. Results Using low-substituted hydroxypropyl cellulose (L-HPC) as the main coating material of the inner swelling layer increasing the weight of inner coating layer by 20 % and 15 % Surelease as the coating solution of the outer swelling layer, by controlling the thickness of the outer coating membrane it can achieve the effect of time-controlled release. Yiguanjian sustained-release capsules were developed by encapsulating the three kinds of coated pellets whose coating load were 0 %, 20 % and 24 % at equivalent ratio. Investigating the drug release the f2 of Catalpol and Ferulic acid in Yiguanjian sustained-release pellets is 78.2. The release had no significant release, while the characteristics of sustained release could be obviously seen. Conclusion Yiguanjian sustained-release pellets made it possible that various components could synchronously release while sustained-releasing. That complies with the theory of the traditional Chinese drug.

Key words [pharmaceutics](#) [Yiguanjian](#) [sustained-release](#) [pellets](#) [fluid-bed](#) [time-controlled release](#)

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