

论文

尼群地平片剂生物利用度的研究

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摘要:

为提高国产尼群地平片剂的生物利用度,采用球磨混合粉碎法工艺进行处方设计,试制出新处方片剂,与西德Bayer公司片剂进行了体外溶出、体内生物利用度的比较。体内血浆药浓用GC-MS法测定,体内数据按零级溶出、一级吸收口服单室模型,经计算机用Gauss-Newton-Damping法处理求得药动学参数。本文研制的尼群地平新处方片剂生物利用度已超过西德Bayer公司片剂。

关键词: 尼群地平 片剂 GC-MS法 生物利用度

STUDIES ON THE BIOAVAILABILITY OF NITRENDIPINE TABLET

ZY Zhu; FF Mao and JB Zhu

Abstract:

The problem of nitrendipine tablets manufactured in China is its low bioavailability. To solve this, a new tablet formulation was developed by using milling method to increase its relative bioavailability. The commercially available conventional tablet A (Nanjing factory) and C (a Hebei factory) and the new tablet formulation D were compared with the reference tablet B (Bayer Company, West Germany) *in vitro* and *in vivo*. The determination of nitrendipine *in vivo* was carried out by GC-MS. The pharmacokinetic parameters of nitrendipine *in vivo* were estimated by using the nonlinear least square computer program on the basis of the compartment model (zero order dissolution, first order absorption). The bioavailability of A, C and D relative to B was 31.8%, 72.2% and 138.9% respectively. The new tablet formulation D is superior to the imported tablet B in both the extent and rate of absorption.

Keywords: Tablet GC-MS Bioavailability Nitrendipine

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