

- sustained-release verapamil after a single administration and at steady state. *Eur J Drug Metab Pharmacokinetics*, 1985; 10(2): 133
- 5 季乃军, 雷后兴. 维拉帕米的降压作用和应用. *新药与临床*, 1987; 6(5): 295
- 6 McAllister RG, Kirsten EB. The pharmacology of verapamil. IV. Kinetic and dynamic effects after single intravenous and oral doses. *Clin Pharmacol Ther*, 1982; 31(4): 418
- 7 Vallner JJ, Honigberg IL, Kotzar JA, et al. A proposed general protocol for testing bioequivalence of controlled-release drug products. *Int J Pharm*, 1983; 16(1): 47
- 8 曹德英, 张立德. 缓释评价指数——一种评价缓释制剂的新方法. *中国医药工业杂志*, 1991; 22(6): 260

## Dissolution Test *in Vitro* and Bioavailability Study on Sustained-Release Verapamil Hydrochloride Tablets

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This paper deals with the preparation and evaluation of sustained-release verapamil hydrochloride (VR·HCl-SRT) tablet by measuring *in vitro/in vivo* test. The plasma levels of VR·HCl in eight volunteers following the single and multiple oral doses of three dosage forms were determined using HPLC method. The pharmacokinetic parameters were fitted by nonlinear leastsquare method with a computer on the basis of two-compartment model. The results showed that the VR·HCl-SR tablets released drug with a first-order kinetic and a significant correlation was found between *in vitro* dissolution and *in vivo* absorption. The pharmacokinetic-pharmacodynamic data suggested a good relationship between the drug concentration in plasma and therapeutic effects.

**Key words** Verapamil hydrochloride; Sustained-release; HPLC; Dissolution rate; Pharmacokinetics

## 中国药科大学将向华侨及港、澳、台招生

根据国家教育委员会印发《中华人民共和国普通高等学校联合招收华侨、港澳、台湾省学生简章》通知,中国药科大学等57所院校被确定为第一批可招收华侨、港澳、台湾省学生的大学。通知还决定从1992学年开始,除暨南大学、华侨大学外,各高等院校一律不再接受上述学生作为进修生、插班生、旁听生入学。

(郭耀宗)