



The effect of Transmetil on Pharmacokinetics of MS-275 in Rats

Jiayi GUO ¹, Qiaoqiao XU ², Shuhua TONG ¹, Shuanghu WANG ³,
Qingwei ZHANG ⁴, Fa SUN ⁵ & Xianqin WANG ^{5*}

¹ Department of Clinical Pharmacy, Jinhua Central Hospital, Jinhua 321000, China.

² Pharmaceutical Department, The First Affiliated Hospital
of Wenzhou Medical University, Wenzhou 325000, China.

³ The Laboratory of Clinical Pharmacy, People's Hospital of Lishui City, Lishui 323000, China.

⁴ Shanghai Institute of Pharmaceutical Industry, Shanghai 200437, China.

⁵ Analytical and Testing Center, Wenzhou Medical University, Wenzhou 325035, China.

SUMMARY. This study examined whether oral administration of MS-275 to the rats with transmetil led to any pharmacokinetic interactions. Sixteen rats were divided randomly into 2 groups, MS-275 group (MS-275 25 mg/kg, n = 8), and co-administration group (MS-275 25 mg/kg and transmetil 50 mg/kg, n = 8). The concentration of MS-275 in rat plasma was determined by a sensitive and simple UPLC-MS/MS method. There was no statistical pharmacokinetic difference for MS-275 in the MS-275 group and co-administration group. While there was statistical significance for MRT of MS-275, MRT became longer for co-oral with transmetil ($p < 0.05$). These data indicate transmetil could slightly influence the pharmacokinetic profile of MS-275 in rats.

RESUMEN. Este estudio examinó si la administración oral de MS-275 a ratas con transmetil condujo a alguna interacción farmacocinética. Dieciséis ratas se dividieron aleatoriamente en 2 grupos: el grupo MS-275 (MS-275 25 mg/kg, n = 8) y el grupo co-administración (MS-275 25 mg/kg y transmetil 50 mg/kg, n = 8). La concentración de MS-275 en plasma de rata se determinó por un método de UPLC-MS/MS sensible y simple. No hubo diferencia estadística farmacocinética entre el grupo MS-275 y el grupo de la co-administración. Si bien no hubo significación estadística para MRT de MS-275, MRT se hizo más largo para la coadministración oral con transmetil ($p < 0,05$). Estos datos indican transmetil podría influir ligeramente el perfil farmacocinético de MS-275 en ratas.

KEY WORDS: Interaction, MS-275, Pharmacokinetic, Rat, Transmetil.

* Author to whom correspondence should be addressed. E-mail: lankywang@foxmail.com