

论文

体外扩散池法评价瑞巴派特经大鼠肠黏膜的透过特性

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摘要:

研究瑞巴派特经空肠、回肠和结肠黏膜的透过特性。制备大鼠不同区段肠黏膜样本,使用体外扩散池法,评价80 μmol·L<sup>-1</sup>瑞巴派特经空肠、回肠和结肠黏膜的经时吸收方向(M-S)和分泌方向(S-M)的透过量 and 透过系数(P<sub>app</sub>),瑞巴派特在接受室中的浓度用HPLC法测定。结果表明,瑞巴派特经空肠和回肠的透过性高于结肠。比较M-S方向和S-M方向的透过性发现,药物在空肠和结肠经两个方向的透过性无显著差异,但经回肠透过时,分泌方向的透过性高于吸收方向的透过性(P<0.05)。瑞巴派特经大鼠肠黏膜的透过性存在区段差异。瑞巴派特可能不受肠黏膜P-糖蛋白转运体的调控。

关键词: 瑞巴派特 扩散池 透过性 P-糖蛋白

Permeabilities of rebamipide via different intestinal mucosa in the diffusion chamber *in vitro*

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Abstract:

The objective of this study is to investigate the permeabilities of rebamipide across the jejunal, ileal and colonic membranes in rat. The permeability (P<sub>app</sub>) of rebamipide via rat intestinal membranes at concentration of 80 μmol·L<sup>-1</sup> was evaluated by an *in vitro* diffusion chamber system after the membranes were isolated from the rat intestine. And the concentration of rebamipide in the receptor was determined by HPLC. As a result, the permeability of rebamipide across the jejunal or ileal membrane was higher than that across the colonic membrane, and the permeability of rebamipide in the ileal tissue from the serosal to mucosal direction was greater than that from the mucosal to serosal direction. Therefore, there was a regional difference in the permeability of rabamipide across the jejunum, ileum and the colon in rat. Also, the transporters in the intestinal mucosa as p-glycoprotein may not be involved in the transport of rebamipide.

Keywords: diffusion chamber permeability P-glycoprotein rebamipide

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