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人胆汁中罗红霉素代谢产物的研究

李雪庆;钟大放;吴硕东;王爱民;田蕾;于宏

沈阳药科大学药物代谢与药物动力学实验室,沈阳 110015; 1中国医科大学第二附属医院,沈阳 110001 摘要:

目的:研究人胆汁中罗红霉素的代谢转化产物。方法:采用高效液相色谱-离子阱质谱法,对患者po罗红霉素后的 胆汁样品进行了分析。结果: 发现了13个代谢产物,分别为罗红霉素的(9Z)-异构体及其(9E)-,(9Z)-N-去甲基和 N-双去甲基衍生物和(9E)-及(9Z)-脱克拉定糖衍生物,(9E)-和(9Z)-红霉素肟及其(9E)-和(9Z)-N-去甲基及N-双去 甲基衍生物,其中9种为新发现的代谢物。结论:罗红霉素及其代谢物均可在体内发生几何异构化。

关键词: 罗红霉素; 代谢物; 人胆汁; 高效液相色谱-离子阱质谱法

STUDIES ON METABOLITES OF ROXITHROMYCIN IN HUMAN BILE

Li Xueqing; Zhong Dafang; Wu Shuodong; Wang Aimin Tian Lei and Yu Hong

Abstract:

dose of 150 mg RXM after gallbladder operation. METHODS: High-performance liquid chromatography/ion trap mass spectrometry was used to determinate RXM and its metabolites in human bile. The bile sample was collected, extracted with diethyl ether and separated on a C₁₈ reversed-phase column with (+)ESI-MSⁿ detection. RESULTS: RXM and its thirteen metabolites were identified in the sample based on reference substances and mass spectra. These include descladinose-RXM (M1), erythromycin-oxime (M2) and its N-mono- and N-didemethylated derivatives (M4 and M6), N-mono- and didemethylated derivatives of RXM (M3 and M5), as well as the (9Z)-epimeric isomers of RXM and all its above metabolites (M7 \sim M13). The ratios of (9Z)- to (9E)-isomers were found to be between 0.11 \sim 0.79. The parent drug remained was about 20% of the total bile metabolites. CONCLUSION: The metabolic pathways of RXM observed in the human bile are therefore quite different to those in human plasma and 🕨 Article by urine. The identification of the isomerization of the oximes of RXM derivatives represents a novel biotransformation pathway.

AIM: To study the metabolites of roxithromycin (RXM) in the bile of a patient, who had received an oral

Keywords: metabolites human bile HPLC/MS WORDS roxithromycin

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作者简介:

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