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Relationship of chemical compositions of gallstone with its CT features *in vitro*

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Abstract Along with the development of various therapeutic measures for cholelithiasis, it is of increasing importance to recognize the features and chemical compositions of gallstone and the functions of gall bladder with imaging techniques. In our study, samples of gallstone from 62 cases were examined with CT scanning *in vitro* and the chemical compositions of the gallstones were determined. It was found that the CT features *in vitro* and the CT HU were closely related to the chemical compositions of the gall stones. It is suggested that 40 HU is used as the threshold CT value for chelesterol stone and it is used in combination with the CT features to differentiate various kinds of gallstones.

Key words gallstone; chemical compositions; CT scanning

P-糖蛋白在正常胎儿组织中的表达

Expression of P-glycoprotein in normal fetus tissues

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P-糖蛋白(P-glycoprotein、P-gp)是位于浆膜表面的药物转运泵,在介导肿瘤细胞的抗药性中起重要作用[1]。近年发现,正常人组织也有P-gp表达[2]。本文观察P-gp在正常胎儿组织中的表达,为进一步研究P-gp在正常组织中的功能提供依据。

1 材料与方法

1.1 材料:胎龄为20周的正常胎儿心、肺、肝、脾、胰腺、肾及结肠等组织。试剂:抗P-gp McAb4E$_3$,为IgG$_{2a}$同型的鼠源性抗体。生物素—亲和素—过氧化物酶复合物(ABC)试剂。

1.2 免疫细胞化学染色方法:ABC法。

2 结果

抗P-gp免疫细胞化学染色结果显示,心肌细胞染色阴性。支气管、细支气管粘膜上皮细胞中度表达,肺组织弱表达。肝细胞中度表达,胆管上皮细胞中至高度表达。脾组织中度表达。胰腺上皮细胞弱表达。肾脏P-gp表达有着明显的异质性,部分肾小管上皮细胞高度表达。结肠粘膜上皮细胞中度表达,粘膜下层及肌层未见着色。

3 讨论

以往的研究证明,P-gp是位于肿瘤细胞膜的能量依赖性药物转运泵[3],近年研究发现,正常组织细胞亦有P-gp表达。本文结果表明,P-gp在肾脏高度表达,肺、肝、脾、结肠中度表达,胰腺弱表达,而心肌细胞染色阴性,表明在正常人组织中,P-gp表达程度随组织器官不同而异。本文还观察到,P-gp主要集中于支气管、细支气管粘膜上皮细胞、胆管上皮细胞、肾小管上皮细胞及结肠粘膜上皮细胞。这些结果提示,P-gp可能与正常组织细胞的分泌及对有毒物质的清除作用有关。

关键词 P-糖蛋白;胎儿

中图法分类号 Q513.2

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