

论文

彩色多普勒闪烁征在肾结石诊断中的价值

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摘要:

目的 应用彩色多普勒超声观测肾结石的闪烁征与声影情况, 探讨闪烁征对肾结石的诊断价值。方法 以CT为金标准, 将肾结石按大小分为3组, 直径≤5mm组、5~10mm组和直径>10mm组, 分别观察其闪烁征及声影显示情况。根据体质量指数(BMI)将患者分为正常组、超重组和肥胖组, 观察肾结石闪烁征与患者BMI的关系。结果 不同组中肾结石闪烁征的显示率均比声影显示率高, 其中直径≤5mm和5~10mm组差异具有统计学意义(P<0.01), 直径>10mm组差异无统计学意义(P>0.05)。肾结石闪烁征显示率与患者BMI无关(P>0.05)。结论 肾结石闪烁征与结石大小及患者BMI无关。利用闪烁征这一指标, 有利于肾小结石、隐匿性结石的检出与诊断。

关键词: 超声检查; 多普勒; 彩色; 闪烁征; 声影; 肾结石

Clinical significance of the twinkling artifact on color Doppler sonography in the diagnosis of renal stones

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Abstract:

Objective To study the twinkling artifact and acoustic shadowing of renal stones on Doppler sonography, and to evaluate the clinical significance of the twinkling artifact in the diagnosis of renal stones. Methods With CT as a reference standard, renal stones were classified into groups of smaller than 5 mm, 5~10 mm and greater than 10 mm. The frequency of the twinkling artifact and acoustic shadowing in each different group was observed. Subjects were grouped as normal, overweight, or obese based on the body mass index (BMI). The correlation between the twinkling artifact of renal stones and BMI was assessed. Results The detection rate of the twinkling artifact was much higher than that of acoustic shadowing in all groups, especially in the groups of smaller than 5 mm and 5~10 mm (P<0.01). No relationship between the twinkling artifact and BMI was found (P>0.05). Conclusion The twinkling artifact is not influenced by stone size and BMI. It is useful in the diagnosis of renal stones, especially small stones with faint or absent posterior acoustic shadowing.

Keywords: Ultrasonography, doppler, color; Twinkling artifact; Acoustic shadowing; Renal stones

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