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超声直方图对脂肪肝的诊断及分度

Histogram of ultrasound in diagnosing and grading of fatty liver

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中文摘要:

目的 研究超声直方图对脂肪肝诊断及分度的价值。方法 正常组与轻度、中-重度脂肪肝组研究对象各30位,超声测量肝脏、肾脏、脾脏及右肝静脉(RHV)感兴趣区域的直方图M值,并分析不同部位间直方图M值的比值。结果 ①右肾前方肝组织与肾脏(AntK)直方图M值的比值在正常组与轻度、中-重度脂肪肝组的差异有统计学意义($P<0.05$),RHV前方肝组织与RHV(AntV)直方图M值的比值在正常组与中-重度脂肪肝组以及轻度与中-重度脂肪肝组的差异有统计学意义($P<0.05$);②0.97、0.78分别作为超声对脂肪肝诊断及分度时AntK、AntV直方图M值比值的临界值,其灵敏度分别为80.00%、80.00%;特异度分别为85.00%、70.00%。结论 AntK、AntV直方图M值的比值可作为脂肪肝超声诊断及分度的参考指标。

英文摘要:

Objective To explore the value of the histogram of ultrasound in diagnosing and grading of fatty liver. **Methods** Ninety subjects were enrolled in normal group, light or moderate to severe fatty liver group (each $n=30$), respectively. All the subjects underwent histogram of ultrasound of the liver, kidney, spleen and right hepatic vein (RHV), and the ratio of histogram M value of different area were analyzed. **Results** Statistical differences of the ratio of histogram M value of anterior hepatic tissue of kidney and kidney (AntK) between normal group and two fatty liver groups were detected ($P<0.05$). The ratio of histogram M value of anterior hepatic tissue of RHV and RHV (AntV) between the normal group and moderate to severe fatty liver group, as well as the light and moderate to severe fatty liver group had statistical differences ($P<0.05$). When 0.97, 0.78 were used respectively as the critical value of the ratio of histogram M value in diagnosing and grading of fatty liver at AntK and AntV, the sensitivity was all 80.00% and 80.00%, specificity was 85.00% and 70.00%, respectively. **Conclusion** The ratio of histogram M value of AntK, AntV can be used as the referent index in diagnosing and grading of fatty liver.

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