

董雪迎,周显礼,薛伟力,纪巧,韦虹.慢性乙型肝炎肝硬化患者超声辐射力脉冲成像参数与肝功能Child-Pugh分级的相关性[J].中国医学影像技术,2013,29(10):1657-1660

慢性乙型肝炎肝硬化患者超声辐射力脉冲成像参数与肝功能Child-Pugh分级的相关性

Correlation between parameters of acoustic radiation force impulse imaging and Child-Pugh classification of liver function in patients of B-viral liver cirrhosis

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英文关键词: [Acoustic radiation force impulse imaging](#) [Child-Pugh criteria](#) [Liver cirrhosis](#) [Hepatitis B, chronic](#)

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中文摘要:

目的 探讨乙型肝炎肝硬化患者肝功能Child-Pugh分级与声辐射力脉冲成像(ARFI)定量参数剪切波速度(SWV)之间的相关性.方法 对临床诊断为肝硬化的40例慢性乙型肝炎患者及40名健康体检者行ARFI,测量肝脏SWV;检测肝硬化患者血清学指标,根据结果及临床表现进行肝功能Child-Pugh分级.比较肝硬化患者与健康人及不同Child-Pugh分级患者间SWV的差异,分析肝脏SWV与Child-Pugh分级及血清学指标之间的相关性.结果 健康人肝脏SWV显著低于肝硬化患者;随Child-Pugh分级上升,SWV明显增加($P<0.001$).SWV与Child-Pugh分级呈正相关($r=0.62, P<0.001$).肝硬化患者SWV与凝血酶原时间呈正相关($r=0.65, P<0.001$),与血清白蛋白水平呈负相关($r=-0.59, P<0.001$).结论 肝硬化患者SWV显著高于健康人,并与肝功能Child-Pugh分级呈正相关.

英文摘要:

Objective To investigate the correlation between shear wave velocity (SWV) obtained from acoustic radiation force impulse (ARFI) with Child-Pugh classification of liver function in patients with chronic hepatitis B cirrhosis. **Methods** Forty patients with clinically diagnosed chronic hepatitis B cirrhosis and 40 healthy subjects underwent ARFI to obtain SWV. The biochemical indexes were examined and Child-Pugh classification was performed according to the biochemical indexes and clinical manifestations. The differences of liver SWV were compared with between the cirrhotic patients healthy people, and among the different Child-Pugh classifications of cirrhosis patients. The correlation of liver SWV were analyzed between Child-Pugh classification and serological indicators. **Results** Liver SWV of healthy subjects was significantly lower than that of cirrhosis patients. In cirrhotic patients, SWV of liver increased along with Child-Pugh grade ($P<0.001$). SWV of liver was significantly positively related with Child-Pugh grade ($r=0.62, P<0.001$). In addition, it was found that SWV was positively related with prothrombin time ($r=0.65, P<0.001$) and negatively related with serum albumin ($r=-0.59, P<0.001$). **Conclusion** Liver SWV in cirrhosis patients is increased compared with that of healthy people, and is positively related with Child-Pugh classification of liver function.

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