

张小杉, 哈斯, 李治安, 吴晓萍. 经胸与经食管超声心动图观察二尖瓣脱垂形态在诊断腱索断裂中的应用价值[J]. 中国医学影像技术, 2011, 27(4): 731-734

经胸与经食管超声心动图观察二尖瓣脱垂形态在诊断腱索断裂中的应用价值

Value of transthoracic echocardiography and transesophageal echocardiography in observation on shape of mitral valve prolapse in evaluating rupture of chordae tendineae

投稿时间: 9/29/2010 最后修改时间: 12/21/2010

DOI:

中文关键词: [二尖瓣脱垂](#); [腱索](#); [超声心动描记术](#) [经食管](#)

英文关键词: [Mitral valve prolapse](#); [Chordae tendineae](#); [Echocardiography](#) [transesophageal](#)

基金项目:

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中文摘要:

目的 比较TTE与TEE诊断二尖瓣脱垂合并腱索断裂的准确率, 评价超声观察二尖瓣脱垂形态在诊断腱索断裂中的价值。**方法** 选择经手术证实的二尖瓣脱垂患者25例, 应用TTE与TEE观察二尖瓣脱垂部位并进行比较, 分析二尖瓣脱垂形态及其与腱索断裂的关系。**结果** 25例二尖瓣脱垂患者中, 前叶脱垂10例, 后叶脱垂15例。TEE在二尖瓣脱垂部位的分区中比TTE准确。TTE诊断二尖瓣腱索断裂的准确率为53.84%, TEE的诊断准确率为84.62%, TEE明显优于TTE($P<0.05$)。伴有腱索断裂的二尖瓣脱垂多表现为倾斜状脱垂($\chi^2=4.81, P<0.05$)。**结论** TEE能较TTE更准确地诊断二尖瓣脱垂。应用此两种技术, 可根据二尖瓣脱垂形态间接判断是否存在腱索断裂。

英文摘要:

Objective To compare the accuracy of TTE and TEE in diagnosing mitral valve prolapse and rupture of chordae tendineae, and to assess the value of observing the shape of mitral valve prolapse in evaluating rupture of chordae tendineae. **Methods** A total of 25 patients with mitral valve prolapse proved by surgical operation were enrolled. The locations of prolapsed mitral valves were observed and compared with TEE and TTE. The relationship of the shape of prolapsed mitral valve and rupture of chordae tendineae was analyzed. **Results** Among 25 patients, anterior leaflet prolapse was found in 10 patients, while posterior leaflet prolapse was detected in 15 patients. Compared with TTE, TEE provided more accurate region of prolapsed mitral valve. For diagnosing of rupture of chordae tendineae, the accuracy of TTE and TEE was 53.84% and 84.62%, respectively ($P<0.05$). The prolapsed mitral valves in patients with rupture of chordae tendineae were more obviously prone to show slope shape than that in patients without rupture of chordae tendineae ($\chi^2=4.81, P<0.05$). **Conclusion** Compared with TTE, TEE can diagnose mitral valve prolapse more accurately. TTE and TEE can provide accurate assessment of rupture of chordae tendineae according to the shape of mitral valve prolapse, and offer credible information for surgery choice.

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