

عنوان مقاله:

Three-dimensional ultrasound manifestations of adenomyosis

محل انتشار:

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خلاصه مقاله:

Adenomyosis is an idiopathic and benign disease in which ectopic endometrial glands embedded deeply in myometrial smooth muscle with the compensatory hypertrophy of the myometrium surrounding the ectopic endometrium (1, 2). There is a correlation between depth of the infiltration and initial too high stage of adenomyosis. Lesions may characterize as a diffuse or focal lesions. The highest prevalence occurs in parous women 30-50 years old and in half of the cases remains asymptomatic (2, 3). By now, there are no definitive detection methods for adenomyosis and the condition still remains a diagnostic challenge. Transvaginal ultrasound (TVS) is the primary imaging modality for preoperative diagnosis of diffuse adenomyosis. There is a broad spectrum of ultrasound features in adenomyosis. Typical adenomyosis on two-dimensional ultrasound (2D-TVS) is characterized by the presence of focal or diffuse myometrial heterogeneity (4, 5). Diffuse adenomyosis represents as asymmetric myometrial thickening and/or enlarged and globular uterus. Other findings in adenomyosis include echogenic nodules or linear striations extending from the endometrium into the myometrium results from presence of ectopic endometrial glands and stroma and also dilated cystic glands result in small myometrial cysts(1). In a recent review Reinhold and colleagues reported that TVS had a sensitivity of 80-86%, specificity of 50-96%, and overall accuracy of 68-86%for diagnosing diffuse adenomyosis (1). However, TVS can yield equivocal result in the case of focal adenomyosis and if there are co-existent fibroids (6). Furthermore, the 2D-TVS findings are more likely appears in advanced stage of disease. With the advent of real time three-dimensional ultrasound (3D-TVS) the diagnostic potential of ultrasound examination of adenomyosis has improved significantly. The coronal section of the uterus and post processing arrangement provided by 3D-TVS has led to substantial improvement in the diagnosis of adenomyosis on early stage (7, 8). Recent studies showed that the irregular endometrial-myometrial junction (junctional zone, JZ) with increased thickness depicted on coronal view of 3D-TVS as a sonographic criteria has a high diagnostic accuracy particularly for diagnosis of initial adenomyosis based on the reasonable hypothesis that adenomyosis is caused by infiltration of endometrial tissue across the junctional zone and into myometrium(7, 9). Ahmed et al found the positive predictive value (PPV) and ... accuracy of 3D-TVS in the diagnosis of adenomyois to be 95% and 80%, respectively, based on detectio

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