

The invention relates to the medicine, namely the gynecology, and can be used in the diagnosis of the adenomyosis in women. The adenomyosis is diagnosticated by transvaginal sonographic research, which initially allows to define the increase in size and the sphericity of the uterus, the presence of the striated streaking of the myometrium and to assess its severity (X4). The sonographic characterization X4 is assigned the value 0 in dimly streaking, 1 - in the mild streaking, when on myometrium are defined from 1 to 4 hyperechoic grooves, 2 - at the moderate streaking, when are defined from 5 to 9 hyperechoic grooves, and 3 - at the severe streaking of the myometrium, when determining 10 and more hyperechoic grooves. Then the ultrasound measurement of the thickness of the uterine maximum connecting zone and the myometrium thickness in the area of the investigated area zone is performed. Their ratio is calculated, multiplied by 100 (X7), and the diagnostic ratio Y by formula:  $Y = 0.196 \times X4 + 0.019 \times X7 - 0.529$ . The value of the calculated ratio Y is analyzed and the diagnosis is established: when the ratio Y takes a value more than 0.47, in the patient the adenomyosis is diagnosed, and if the value of Y is equal to or less than 0.47 - the leiomyoma is diagnosed.