

## The Internal Organs Volvulus in the Childhood: the Variants of Ultrasonography Findings

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### Abstract

The study included 184 children aged from 6 hours to 17 years with volvulus and torsion of different localization. All children before the operation was performed in the ultrasound examination with the color Doppler study. The authors present 44 cases of the Ledda syndrome, 66 children with testicular torsion, 50 – with ovarian torsion and 22 cases of rare variants intestinal loops volvulus. Discussed diagnostic importance of imaging volvulus (whirlpool sign) with using ultrasonic equipment expert class. For Ledda syndrome ultrasound sensitivity was 95,5%; for isolated intestinal loops volvulus sensitivity is low – 36,4 %. For testicular torsion in children older than neonates echographic method sensitivity was only 20 %, for newborn the whirlpool sign was not visible. Presumably, such a low sensitivity associated with prevalence tight volvulus when whirlpool sign differentiate impossible. At ovarian torsion in girls of all age groups transabdominal ultrasound for imaging volvulus is not informative, conclusion about the presence of ovarian torsion done by circumstantial evidence, on the basis of changes in the structure of the ovaries in the B-mode and absence intraorgan vascular pattern. The article presents a short review of the literature and sonogram on the topic under discussion.

**Key words:** Ultrasonography, Children, Volvulus.

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