

## DEVELOPMENT OF LEFT - SIDED VARICOCELE

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### Relevance

Among infertile men, varicocele occurs in 25-35% of cases, and in men with secondary infertility - in 50-80% of cases. The causes of idiopathic varicocele can be one of 3 factors: increased pressure in the left renal vein, the presence of collateral venous anastomoses, the retrograde current through which increases pressure in the plexus, and insufficiency of the venous valves of the internal spermatic vein. The influence of varicocele on fertility is proved by the following provisions described by many researchers: high incidence of varicocele among infertile men, association of varicocele and pathological spermogram parameters, improvement of spermogram parameters after surgical treatment of varicocele.

**Goal of the work.** Assess the incidence of varicocele.

**Material and research methods.** 92 adolescents with varicocele were examined. The functional state of the testicles was assessed by the results of ultrasound examination (ultrasound) with Dopplerography of intratesticular blood flow. The echographic picture was compared with the contralateral testicle and the testicle of a healthy child (n=100). The results of ultrasound of the scrotum were compared with the results of morphological and immunohistochemical studies of the testicular vessels. According to the degree of morphological and histochemical changes, 3 types of structure of the testicular veins were identified. The revealed features of the structure of the veins allow us to conclude that varicocele can be considered as one of the variants of connective tissue dysplasia, therefore, only the expansion of the veins of the spermatic cord is not an indication for surgical intervention.

**Research results.** According to the results of the study, 92 patients in 2020 and 2021 were diagnosed with Varicocele 11 years 6 - 6.52%, 12 years 9 - 9.78%, 13 years 23 - 25%, 14 years 15 - 16.3%, 15 19 years old - 20.65%, 16 years old 11 - 11.95%, 17 years old 9 - 9.79%. 2020 by research: June 2 - 5.13%, July 4 - 10.25%, August 1 - 2.56%, September 14 - 36%, October 4 - 10.25%, November 4 - 10.25%, December 10 - 25.64% was 2021 according to the study: January 12 - 22.64%, February 23 -



43.4%, March 14 - 26.41%, April 4 - 7.54%. Studied veins of the pampiniform plexus ( pampiniform venous plexus ) of the spermatic cord, belong in size to the veins of medium caliber. With varicose veins, the thickness of the walls of the veins of the plexus tends to decrease, and the diameters of the vessels, both in the narrowest and widest places, increase. At the same time, the lumens of varicose veins often take on more regular round-oval shapes. With a pronounced thinning of the wall of the varicose vein in certain areas of the tunica intima, peculiar thickenings are formed in the form of plaques penetrating into the thickness of the middle layer.

**Conclusions.** Doppler ultrasound of the testicles, the data of which correlate with the results of the morpho- immuno -histochemical structure of the testicular vessels of the left testicle, should be included in the protocol for examining patients with varicocele, the indication for surgery should be not only the presence of reverse blood flow, but also intraorganic blood flow suppression as one of the early signs of orchopathy .

