

The invention relates to medical equipment, namely to a device and a method used in eye microsurgery for surgical treatment of strabismus.

Summary of the invention consists in that the device (1) comprises two parts (3, 4) and a mechanism for adjusting the length of the device (1), where the first part (4) is made in the form of a regular quadrangular prism with a bend at an angle of 1...2° in transverse plane, the lower wall of the free end of the part (4) is equipped with a lug (5), on the side walls are made recesses (6), the upper wall is partially removed while maintaining some angular edges (7) at an angle of 90°, and at the ends of the edges (7) of the free end of the part (4) is made a through hole (8). At the opposite end of the part (4), namely at the ends of the edges (7), are made limiters (9). The second part (3) is made in the form of a plate, with one end wider than the opposite, at the narrower end of the part (3) is made a longitudinal cut (10), dividing the specified end into two parts (11), equipped with a protrusion (12) directed to the lateral part. The free end of the part (3) is made with a gradual increase in its width, at the same time at the free end are made two lugs (13) and a hole (14) between them. The length adjustment mechanism consists of three components, where the first component consists of a rod, one end of which is bifurcated into two arcuate arms, and at the opposite end of the rod is made a thread. The second component consists of an electronic caliper with a digital monitor, on one side of which is fixed a rod, and on the opposite side is fixed a tube. The third component includes a mechanism that moves the electronic caliper along the rod and contains a nut, at one end of which is made a recess with an internal thread, which communicates with a through hole with an internal thread, which is made along the longitudinal axis of the nut, at the same time the third component contains a tube connected at one end with a round plate, and also contains a nut with an external thread, and along the longitudinal axis is made a through hole. The device (1) is made of polymethyl methacrylate or titanium.

Also, a method for treating strabismus is claimed, which consists in performing a surgical intervention with implanting the

specified device, namely with fixing it to the eye muscles to shorten or lengthen the affected muscle to the required size, to correct strabismus.

Claims: 2

Fig.: 5

