

Duane syndrome treatment

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Introduction: Duane syndrome is a form of restrictive strabismus, with neural etiology. It appears from birth and is caused by the lack of innervation of the lateral rectus muscle by the Abducens nerve. It is usually caused by the agenesis of the nucleus of this nerve. In these cases nerve fibers of the Oculomotor nerve destined for the medial rectus muscle, partially and at the same time, innervate the lateral rectus muscle.

Case presentation: We are going to present the case of a 17 years old, female patient, who presents with Duane 2 in the right eye and Duane 1 in the left eye. In the primary position, there was exotropia of the right eye. During the attempt of right eye adduction, eye retraction and narrowing of the palpebral fissure was very pronounced. Recession of the two horizontal muscles (more of the LRM) is planned. During the surgical procedure, it was decided to perform only LRM recession.

Conclusion: After the surgical intervention, there was a significant improvement in the position of the eyes in the primary position. There was also a reduction in eye retraction and narrowing of the palpebral fissure during adduction.

Keywords: Ocular torticollis, Eye retraction, Horizontal rectus muscle recession.