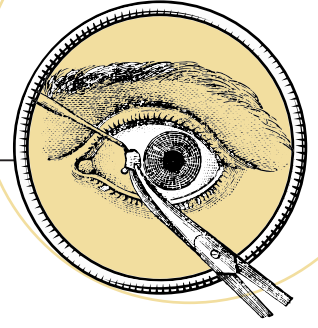


BÖLÜM 5

Ezotropyalar



Mimbay YAŞAR¹

Giriş

Ezotrophia terimi, eski Yunancadan dilimize ἔσω (ésō, “iç”) ve τρόπος (trópos, “dönüş”) sözcüklerinden türetilerek kavramsallaştırılmıştır. Ekzotrophia'ya göre daha karmaşık klinik yansımaları olan ezotrophia'lar komitan ve inkomitan olarak görülebilmektedir. Etiyolojideki ve klinikteki farklılıklarından dolayı ezotrophia'ları sınıflandırmak oldukça güçtür. Bu bölümde komitan ezotrophia'ları Tablo 1’de olduğu gibi inceleyeceğiz.

Tablo 1. Komitan Ezotrophia'lar

Akomodatif ezotrophia'lar
• Refraktif akomodatif ezotrophia'lar
• Refraktif olmayan akomodatif ezotrophia'lar
– Hipoakomodatif ezotrophia'lar
• Parsiyel akomodatif ezotrophia'lar
Akomodatif olmayan ezotrophia'lar
• İnfantil ezotrophia
• Geç başlangıçlı ezotrophia
– Basit
– Akut başlangıçlı
– Konverjans fazlalığı

devam ediyor

¹ Uzm. Dr., Bingöl Devlet Hastanesi Göz Hastalıkları Kliniği, mimbayyasar@gmail.com

- İnfantil ezotropyalarda taş bebek manevrası ya da tek göze yapılan kapama sonrası abduksiyondaki düzelme fark edilebilir.
- İnfantil ezotropyalarda nistagmus varlığı ilave cerrahiler için artmış bir risk göstergesidir.
- İnfantil ezotropyalarda çoğunlukla inferior oblik kasında hiperfonksiyon görülmektedir, başlangıçta tek taraflı olabilse de sonradan bilateral görülmekte ve V patterne neden olmaktadır.
- İnfantil ezotropyalarda 40 D üzerindeki kaymalarda spontan düzelme şansı oldukça düşüktür ve 2 yaşın altında yapılan erken cerrahilerde daha iyi duysal sonuçlar elde edilmektedir.
- Geç başlangıçlı ezotropyalar nörojenik hastalık kaynaklı olabileceğinden detaylı muayenin yapılması gerekmektedir.
- Mikrotropyalar rutin göz muayenesinde gözden kaçabilmektedir, tek taraflı görme azlığı olan ve altta yatan organik bir neden bulunmayan hastalarda mutlaka akılda bulundurulmalıdır.

Kaynaklar

1. von Noorden GK, Campos EC. Chapter 16: Esodeviations. In: Binocular vision and ocular motility. 6th ed. St. Louis: Mosby; 2002. p. 311-49.
2. Wright KW, Spiegel PH, Hengst T. Pediatric ophthalmology and strabismus: Springer Science & Business Media; 2013. P.211-21.
3. Subramanian PS. Practical Management of Pediatric Ocular Disorders and Strabismus: a case-based approach. Eds. Elias I Traboulsi, Virginia Miraldi Utz (2017) ISBN 978-1-4939-2744-9 Springer. Springer; 2018. p. 481-505.
4. Rubin SE. Bringing the management of accommodative esotropia into sharp focus. *American journal of ophthalmology*. 2006;141(5):914-915.
5. Del Monte MA. Management of accommodative esotropia. *Practical Management of Pediatric Ocular Disorders and Strabismus*. 2016:497-505.
6. Murray C, Newsham D. Normative values for the accommodative convergence to accommodation ratio (AC/A). *Investigative Ophthalmology & Visual Science*. 2010;51(13):801-801.
7. Wright KW, Bruce-Lyle L. Augmented surgery for esotropia associated with high hypermetropia. SLACK Incorporated Thorofare, NJ; 1993.
8. Altintas O, Acar Z, Ozkan B, et al., editors. Augmented Medial Rectus Recession with Non-Absorbable Suture Loops is Effective in the Treatment of Convergence Excess Esotropia. *Seminars in Ophthalmology*; 2021: Taylor & Francis.
9. Kushner BJ, Preslan MW, Morton GV. Treatment of partly accommodative esotropia with a high accommodative convergence-accommodation ratio. *Archives of Ophthalmology*. 1987;105(6):815-818.
10. Kushner BJ. Fifteen-year outcome of surgery for the near angle in patients with accommodative esotropia and a high accommodative convergence to accommodation ratio. *Archives of Ophthalmology*. 2001;119(8):1150-1153.

11. Kim DH, Yang HK, Hwang J-M. Long-term surgical outcomes of preoperative prism adaptation in patients with partially accommodative esotropia. *Eye*. 2021;35(4):1165-1170.
12. Sen D, Malik S. Accommodative-convergence over accommodation (AC/A) ratio (in normal Indian subjects). *Indian journal of ophthalmology*. 1972;20(4):153.
13. Group PASR. Efficacy of prism adaptation in the surgical management of acquired esotropia. *Arch Ophthalmol*. 1990;108:1248-1256.
14. Yang HK, Choi JY, Kim DH, et al. Changes in refractive errors related to spectacle correction of hyperopia. *PLoS one*. 2014;9(11):e110663.
15. Biler ED, Üretmen Ö, Köse S. The effect of optical correction on refractive development in children with accommodative esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2010;14(4):305-310.
16. Arnoldi KA. Convergence excess: characteristics and treatment. *American Orthoptic Journal*. 1999;49(1):37-47.
17. Group PEDI. Spontaneous resolution of early-onset esotropia: experience of the Congenital Esotropia Observational Study. *American journal of ophthalmology*. 2002;133(1):109-118.
18. Demer JL, von Noorden GK. Optokinetic Asynunetry in Esotropia. SLACK Incorporated Thorofare, NJ; 1988.
19. Shon MA, Hahm KH, Han SH, et al. Spontaneous resolution of infantile esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2001;5(1):44-47.
20. Park K-A, Oh SY. Early alignment versus delayed alignment in patients with hyperopia and esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2016;20(1):3-6.
21. Eustis HS, Nussdorf JD. Inferior oblique overaction in infantile esotropia: fundus extorsion as a predictive sign. SLACK Incorporated Thorofare, NJ; 1996.
22. Simonsz H, Kolling G, Unnebrink K. Final report of the early vs. late infantile strabismus surgery study (ELISSS), a controlled, prospective, multicenter study. *Strabismus*. 2005;13(4):169-199.
23. Kushner BJ, Fisher M. Is alignment within 8 prism diopters of orthotropia a successful outcome for infantile esotropia surgery? *Archives of Ophthalmology*. 1996;114(2):176-180.
24. Lueder GT, Galli ML. Effect of preoperative stability of alignment on outcome of strabismus surgery for infantile esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2008;12(1):66-68.
25. Tychsen L. Can ophthalmologists repair the brain in infantile esotropia? Early surgery, stereopsis, monofixation syndrome, and the legacy of Marshall Parks. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2005;9(6):510-521.
26. de Alba Campomanes AG, Binenbaum G, Eguiarte GC. 014: Comparison of botulinum toxin to surgery as primary treatment for infantile esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus {JAAPOS}*. 2009;13(1):e4.
27. Hauviller VC, Arrufat M, Sors MV, et al. 067: Botulinum toxin in infantile esotropia: Long-term outcome. *Journal of American Association for Pediatric Ophthalmology and Strabismus {JAAPOS}*. 2009;13(1):e17.
28. Wright K, Edelman P, McVey J, et al. High-grade stereo acuity after early surgery for congenital esotropia. *Ophthalmic Literature*. 1995;3(48):220.
29. Birch EE, Stager Sr DR. Long-term motor and sensory outcomes after early surgery for infantile esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2006;10(5):409-413.
30. Birch EE, Fawcett S, Stager DR. Why does early surgical alignment improve stereoacuity outcomes in infantile esotropia? *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2000;4(1):10-14.

31. Burke JP, Scott WE, Kutschke PJ. Anterior transposition of the inferior oblique muscle for dissociated vertical deviation. *Ophthalmology*. 1993;100(2):245-250.
32. Sprunger DT, Wasserman BN, Stidham DB. The relationship between nystagmus and surgical outcome in congenital esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2000;4(1):21-24.
33. Lyons CJ, Tiffin PA, Oystreck D. Acute acquired comitant esotropia: a prospective study. *Eye*. 1999;13(5):617-620.
34. Clark AC, Nelson LB, Simon JW, et al. Acute acquired comitant esotropia. *British journal of ophthalmology*. 1989;73(8):636-638.
35. Hoyt CS, Good WV. Acute onset concomitant esotropia: when is it a sign of serious neurological disease? *The British journal of ophthalmology*. 1995;79(5):498.
36. Mittelman D. Age-related distance esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2006;10(3):212-213.
37. Bothun ED, Archer SM. Bilateral medial rectus muscle recession for divergence insufficiency pattern esotropia. *Journal of American Association for Pediatric Ophthalmology and Strabismus*. 2005;9(1):3-6.