

가 가 가
. 가

(Hirschberg test)

(Krimsky test)

(Brückner test)

가

(7, 8).

가 가 가
가

MRI

가

가

(9).

가 4 , ,

가 1.

가

(recession, 1)

2.

(resection, 2)

가 (pulley) . Demer (6)

(adjustable suture technique,

3)

MRI

1975

Jampolsky(10)

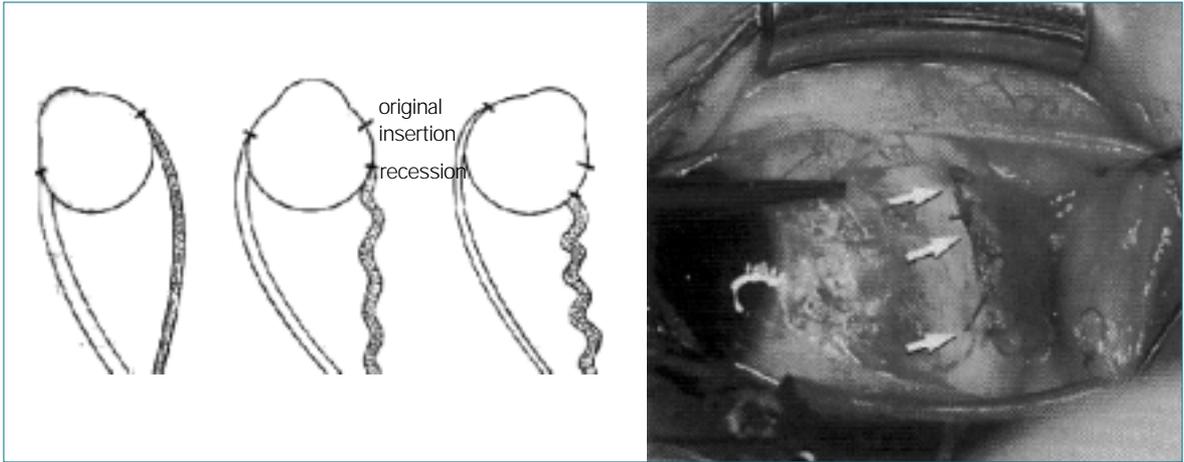
가

가

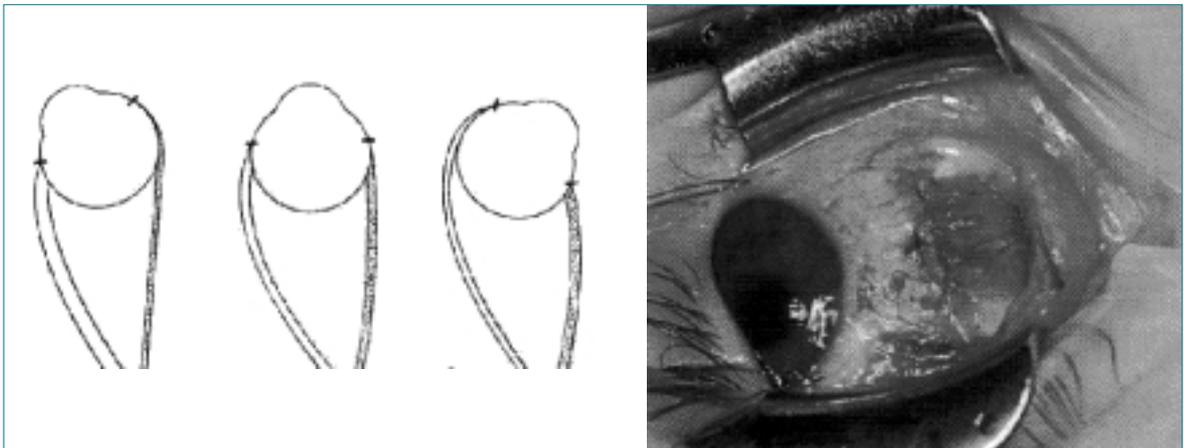
가

가

가

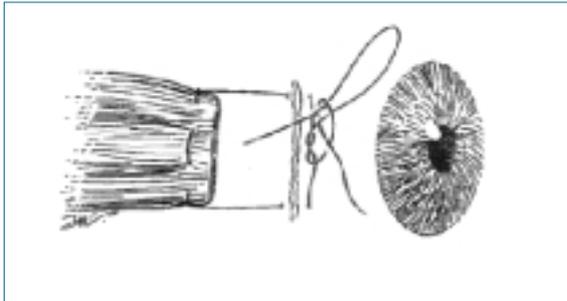


1. A) The drawing of rectus muscle recession. The effect of the recession is greatest when the eye rotates toward the recessed muscle. (KW Wright, PH Spiegel. Pediatric ophthalmology and strabismus. 2nd ed. Springer - Verlag New York, Inc., 2003: 279)
- B) Recessed rectus muscle sutured to the sclera with three scleral attachments (arrows). (Rosenbaum, Santiago. Clinical strabismus management; Principles and surgical techniques. 1st ed. W.B. Saunders company, 1999: 444)



2. A) The effect of a rectus muscle resection. The resection has its greatest effect on gaze away from the resection. (KW Wright, PH Spiegel. Pediatric ophthalmology and strabismus. 2nd ed. Springer - Verlag New York, Inc., 2003: 281)
- B) Resected muscle attached to insertional stump. (Rosenbaum, Santiago. Clinical strabismus management; Principles and surgical techniques. 1st ed. W.B. Saunders company, 1999: 445)

가 , 가 ,
 가 가 ,



3. Bow tie adjustable suture technique. After the sutures have been passed through the scleral insertion, they are tied together in a single - loop bow tie. This bow tie can be untied postoperatively to adjust the muscle. (KW Wright, PH Spiegel. Pediatric ophthalmology and strabismus. 2nd ed. New York: Springer - Verlag, Inc., 2003: 281)

(adhesives)

(11) 가
(fibrin sealant)가

2.

가
(penalization)
가

가

가
, occlusion)

(가

가

(Min 's

glass), Bangerter foil

. 가 가 (full time occlusion)

가 (part time occlusion)

6 가 가 가

가 (12).

가

가 가

가

10

가 (13).

가

(penalization)

(pharmacological penalization)

(optical

penalization)

가

가

levodopa carbidopa가

가

(14)가 , citicholine

가

(15)가

3.

A

(chemodenervation)

. 1973 Alan B. Scott(16)가

가 1989 12

FDA

A

(18). ㉠

가

3~4

가

가

(17).

가

가

가

가

가

1. Hippocrates. Airs, waters and places; In The Genuine Works of Hippocrates. New York: William Wood & Co, 1886: 171
2. . . . UUP, 1999: 111 - 8
3. Schlossmann A, Priestley BS. Role of heredity in etiology and treatment of strabismus. Arch Ophthalmol 1952; 47: 1 - 20
4. Ziakas NG, Woodruff G, Smith LK, et al. A study of heredity as a risk factor in strabismus. Eye 2002; 16: 519 - 21
5. Paul TO. The heritability of strabismus. Presented at the annual meeting of the International Society for Genetic Eye Disease, Siena, Italy, June 1-3, 1992
6. Miller JM, Demer JL, Rosenbaum AL. Effect of transposition surgery on rectus muscle paths by magnetic resonance imaging. Ophthalmology 1993; 100: 475 - 87
7. Demer JL, Oh SY, Poukens V. Evidence for active control of rectus extraocular pulleys. Invest Ophthalmol Vis Sci 2000; 41: 1280 - 90
8. Oh SY, Poukens V, Demer JL. Quantitative analysis of rectus extraocular muscle layers in monkey and humans. Invest Ophthalmol Vis Sci 2001; 42: 17 - 22
9. Krzizok, Kaufmann, Traupe. Elucidation of restrictive motility in high myopia by magnetic resonance imaging. Arch Ophthalmol 1997; 115: 1019 - 27
10. Jampolsky A. Strabismus re - operation technique. Trans Am Acad Ophthalmol Otolaryngol 1975; 79: 704
11. Spierer A, Barequet I, Rosner M. Reattachment of extraocular

- muscles using fibrin glue in a rabbit model. Invest Ophthalmol Vis Sci 1997; 38: 543 - 6
12. Pediatric Eye Disease Investigator group. A Randomized trial of prescribed patching regimens for treatment of severe amblyopia in children. Ophthalmology 2003; 110: 2075 - 87
13. Hasse W, Wenzel F. The natural course of untreated functional amblyopia; Does it progress between childhood and adulthood? Binocular Vis Strabismus Q 1997; 12: 17 - 24
14. Leguire LE, Walson PD, Rogers GL. Levodopa/carbidopa treatment for amblyopia in older children. J Pediatric Ophthalmol Strabismus 1995; 32: 143 - 51
15. Campos EC, Schiavi C, Beneditti P. Effect of citicholine on visual acuity in amblyopia; Preliminary results. Graefe's Arch Clin Exp Ophthalmol 1995; 233: 307 - 12
16. Scott AB, Rosenbaum AL, Collins CC. Pharmacologic weakening of extraocular muscles. Invest Ophthalmol 1973; 12: 924
17. Magoon EH. Clinical use of botulinum toxin; clinical trials for strabismus. In: Jankovic J, eds. Therapy with botulinum toxin. 1st ed. New York: Marcel Denker Inc, 1994: 371 - 6
18. BJ Kushner. Pediatric ophthalmology in the new millennium. Arch Ophthalmol 2000; 118: 1277 - 80



Peer Reviewer Commentary

()

가 가 ,

,

가 Demer 'pully'

가 가

가

,

.