



# Definition is variable in the literature. Studies have used a cut-off ranging from 40-60 PD. 1ry / 2ry / consecutive. The current surgical tables in various references providing the amount of surgery are established up to 50 D in XT, 70 D in ET. Variable success rate between 40% and 89% across studies.





## Impact of large angle horizontal strabismus on ability to obtain employment

D K Coats et al. Ophthalmology, 2000 Feb.

**Conclusions:** Large angle horizontal strabismus appeared to be vocationally significant for female applicants, reducing a strabismic female applicant's ability to obtain employment. The presence of strabismus did not appear to influence hiring decisions of male applicants.

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## Aim of Surgical correction

- $\checkmark$  to achieve optimum eye alignment with one operation.
- ✓ improving patient's psychosocial functioning.
- ✓ restoring binocular vision, in some cases.
- ✓ avoid troublesome postop diplopia or symptomatic side-gaze incomitant deviations.





## Individualise the surgery Reported approaches include doing large surgeries on two horizontal rectus muscles. operating on three horizontal rectus muscles (putting all of them on adjustable). dividing a surgical amount of 18–19 mm into three rectus muscles. recessing two horizontal rectus muscles in both eyes by a specified amount and adding a third or fourth rectus muscle based on surgical tables/dosing formulated by the surgeon. dividing the deviation by two to decide the surgical dosing for one eye and doing the same in the fellow eye.

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# <image>

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## Concerns in Management

- Binocularity restoration
- Orthophoria
- Cosmesis
- The target angle based around the smaller angle, with near-distance disparity.
- FDT
- Adjustable sutures; Single-stage adjustable strabismus surgery (SSASS)
- Botulinum toxin
- Surgical success was defined as 10-15D or less of heterophoria/heterotropia for distance
- risk of symptomatic postoperative diplopia
- Narrowing of the field esp in XT.
- Long-term follow up
- Reoperation
- Age group is not a factor for positive outcome .







## Large-angle esotropia



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## To summarize

- Where the psychosocial consequences are the main indication for seeking surgery, the aim is to optimise eye alignment with the minimum number of surgical interventions.
- Tables for strabismus correction are designed for two muscle surgery, for deviations of ≤55 PD, two horizontal rectus muscles, and for >55 PD, three rectus muscles were operated.
- In adults, Adjustable suture surgery involving three or more horizontal recti successfully restores primary position alignment, a high degree of patient satisfaction, and can be expected to be associated with a low incidence of symptomatic postoperative incomitance.
- The lack of comparison of surgical methods and different follow-up periods, makes the results variable.
- Large-scale studies validating the surgical dosage for three and four muscle surgery.

