

A New technique of faden sutures

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Basic facts

- The faden operation, also termed *posterior fixation suture*, is used to weaken the rotational force of a rectus muscle when the eye rotates towards the faden muscle. Faden is the German word for suture
- It's a method to weaken the muscles in the direction of its action, so it doesn't affect the primary position

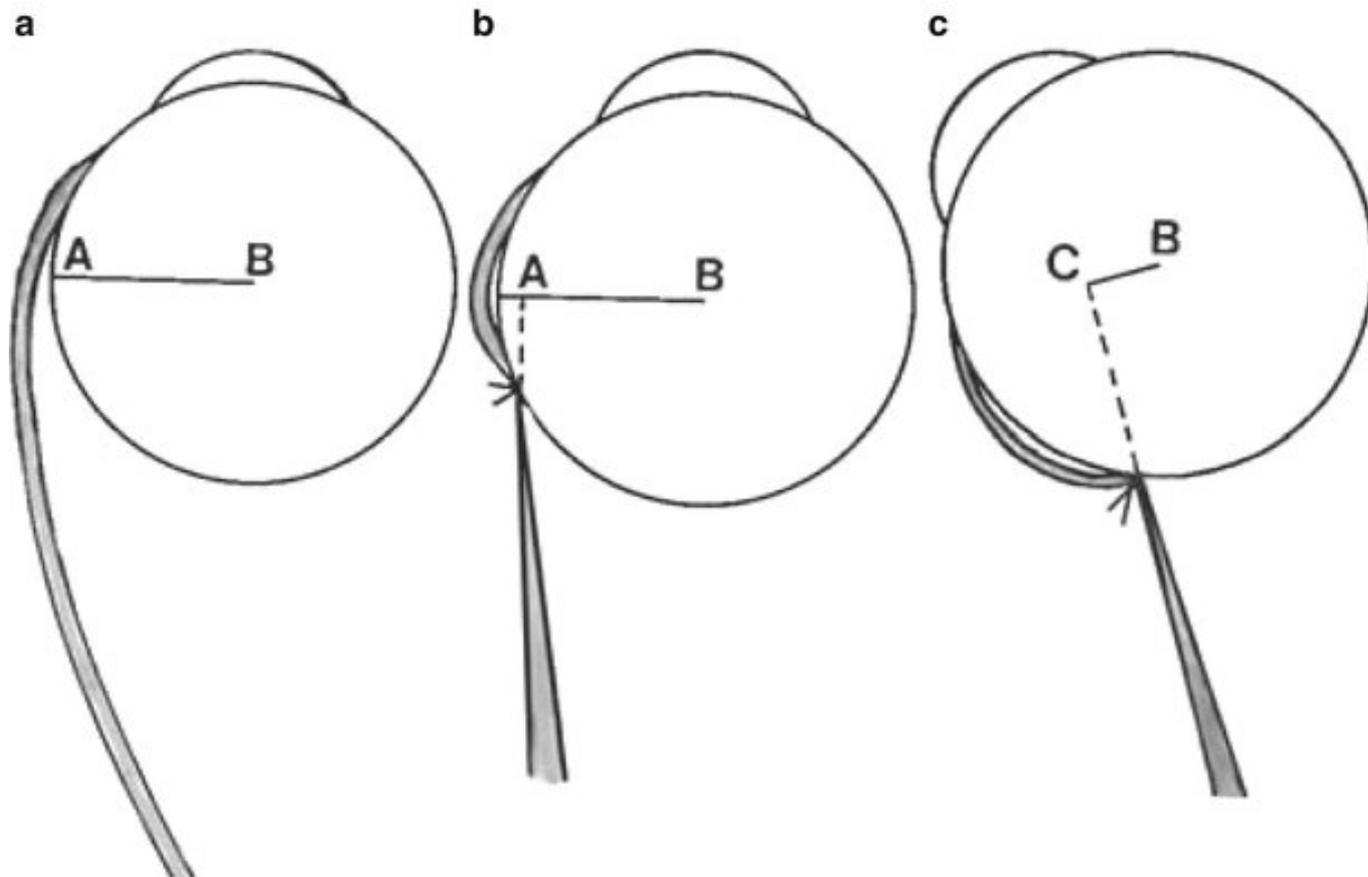




Basic facts

- The faden procedure is performed by suturing the rectus muscle to sclera, 10 mm to 14mm posterior to the rectus muscle insertion. This pins the rectus muscle to the sclera, thus creates a new insertion posterior to the original insertion.
- This posterior insertion shortens the moment arm when the eye rotates towards the fadened muscle.





**Shortening the moment arm
reduces the rotational force as the
eye rotates towards the faded
muscle**



Indications for Faden Operation

Most commonly used in:

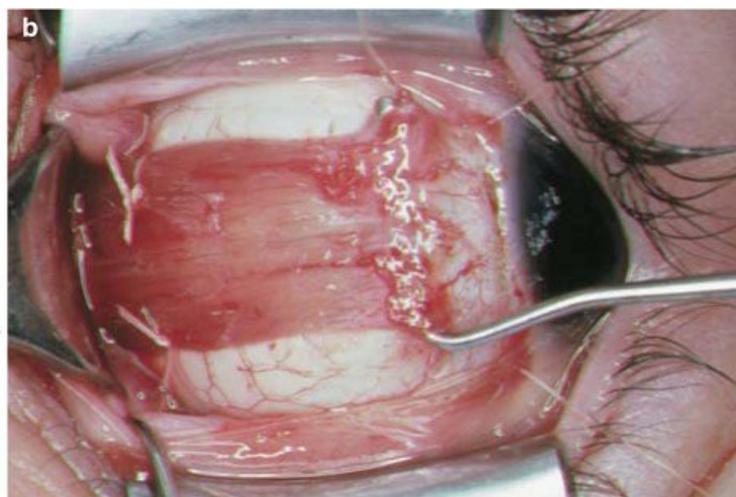
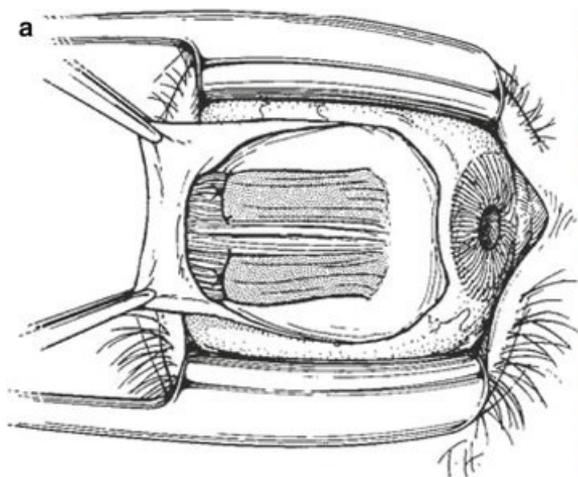
- High AC/A ratio: the option would be to perform bilateral medial rectus recessions along with the faden operation.
- Sixth nerve palsy: A faden operation of the contralateral medial rectus muscle (yoke muscle to the paretic lateral rectus muscle) could improve the lateral incomitance.

Less commonly used in:

- DVD (dissociated vertical deviation)
- Nystagmus in primary position without a fixation turn.
- Persistent esotropia after maximal MR recession



Faden without recession





Faden with recession

Usually we use **4 needles**: two to secure the recessed muscle, and one on each sides of the muscle as posterior scleral fixation, but this technically is really difficult when we operate in **narrow field**

**TOO
MUCH
TROUBLE**



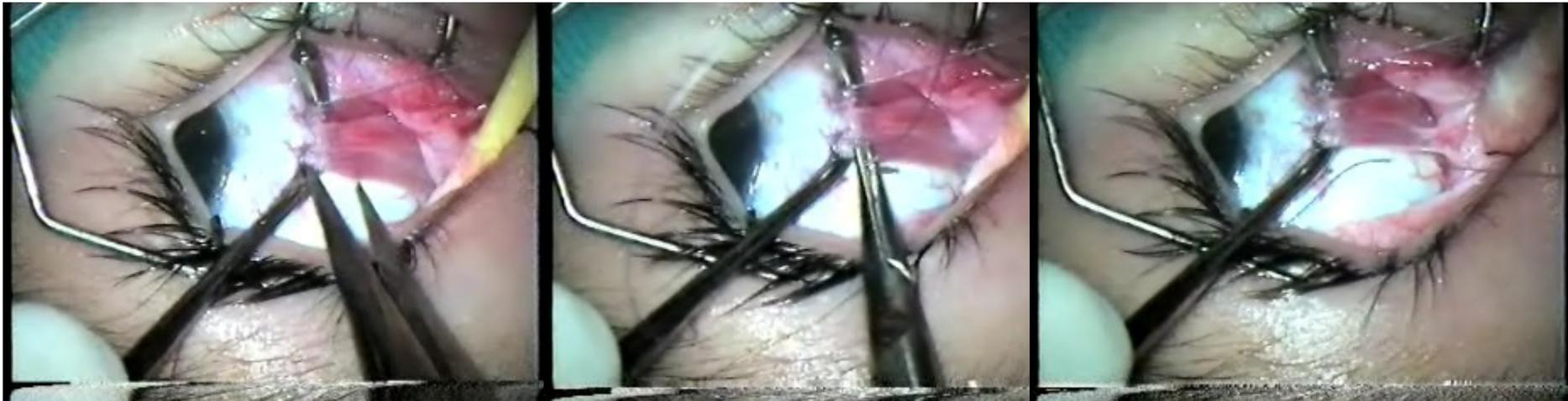
New Idea





The new technique

Only one non absorbable suture is used to do the job: the recession and securing the sides posteriorly



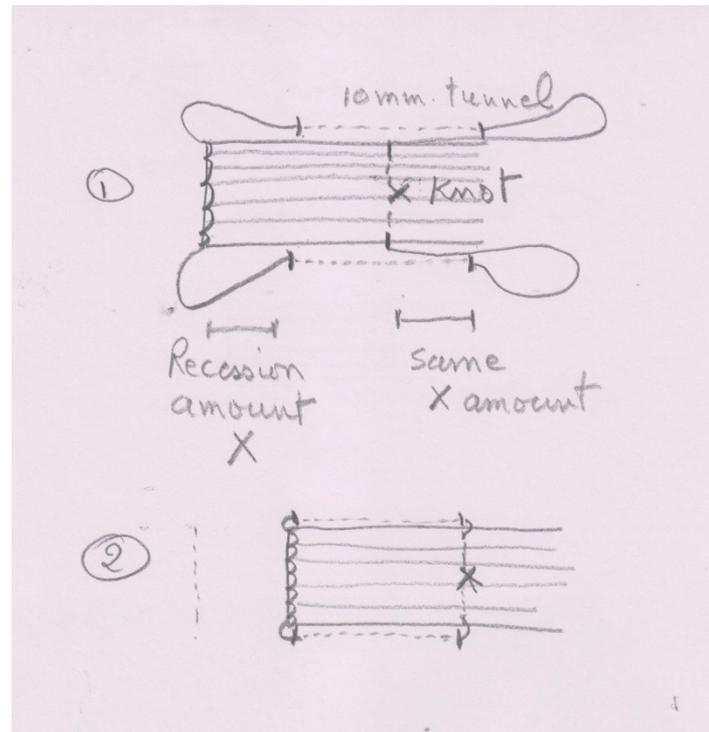
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The new technique

Only one non absorbable suture is used to do the job: the recession and securing the sides posteriorly





The new technique

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The new technique

Only one non absorbable suture is used to do the job: the recession and securing the sides posteriorly





The new technique





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Thank you

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