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Myectomy technique for large-angle horizontal strabismus surgery

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Aim: Large angle strabismus is a grey zone for surgeon and there are no clear surgical rules. And very frequently re operated many times and the results are unpredictable. The author will evaluate and explain a new surgical technique for huge strabismus.

Materials & Methods: A retrospective study was conducted for 40 cases of large angle strabismus (more than 55 PDs) age 12-60 years, at different hospitals in Syria, Libya, and Saudi Arabia, since 16 years ago, those who approved this study. Evaluation of the patient and medical and psychological history is made, the necessary lab tests were demanded, and orbital CT scan investigation was performed before and after the surgery to evaluate the adjustment of the muscles. We operated 38 primary strabismus patients (XT-ET) and two secondary cases re-operated using this new technique. All patients were evaluated clinically and imagery and the follow-up were conducted for up to three years.

Results: Out of 40 cases, 38 (95%) were successful (less than 10 PD) with good ocular motility within one month. Overcorrection or under-correction only appeared in 5% (2) of the cases. One cases re-operated. No major complications or diplopia were recorded during and after the surgeries. The results are supported by document images and video.

Conclusions: This technique is remarkable in our ophthalmic field because it didn't interrupt the integrity of the normal ocular motility and it's simpler, easier, with higher successful rate, require less time, without suturing, under local anesthesia, much more efficient, with less complications, two-muscle surgeries and minimal manipulation.

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