Improvement in motor development following surgery for infantile esotropia

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 Does early surgery improve motor development in patients with infantile esotropia

Methods

161 patients with infantile esotropia 25 item survey completed prior to surgery (143) and post surgery (58) Compared to age matched with normal ocular alignment (194) Subset of 40 had pre and post op surveys Survey has 10 qns on fine motor and 15 qns on gross motor

Results

Pre-surgery showed delayed achievement in fine motor at most ages (3-10months) and gross motor at some ages. (statistically significant) Post op children had caught up with normals Sub group of 40 had more rapid development than normals

Conclusion

Early surgery is beneficial to both visual and motor development
"profound impairment" in fine motor apparent in pre-surgery group

Issues

 No evaluation of stereopsis or fusion to correlate with motor improvement
Scores based on yes/no answer, ? Clinical significance of 1-2 questions