Correcting infantile esotropia: what should our aims and methods be?

Corrección de la esotropía infantil: ¿cuáles deben ser nuestros objetivos y métodos?

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This study adds to a growing consensus that earlier surgical correction of infantile strabismus can lead to improved fusional outcomes, with greater stability of ocular alignment.1-3 Several factors, however, must be kept in mind. Surgery in the younger infants (i.e., less than 10-12 months of age) may itself be more challenging due to: 1) the greater difficulty clinically in obtaining accurate measurements of misalignment, 2) the misalignment itself may be more variable, sometimes even spontaneously improving in the first several months of life, and 3) the effects of surgery may be less predictable when globes and orbits are still growing rapidly. Hence, operating at very young ages sometimes requires a greater number of overall surgeries to achieve the alignment desired.1-3 It can be sometimes difficult to judge whether such early surgery with its attendant risks (anesthesia, likelihood for re-operation) warrants the admittedly increased, but nonetheless still low,3 chances of developing gross, let alone, high-grade stereopsis.

Once fusion is disrupted, but before larger angles of esotropia develop due to convergence unimpeded by fusional divergence mechanisms, with secondary muscle-length adaptation changes that occur,4 efforts may instead be better rewarded in the youngest of infants toward the early detection of small degrees of misalignment.
Rather than planning for surgery, attempts to reduce convergence promptly via optical means may be more efficacious. This, of course, was championed by Donders\textsuperscript{5} and more recently re-emphasized by Jampolsky\textsuperscript{6} before being further evidenced in multicenter studies.\textsuperscript{2} Still overlooked to date, however, is the fact that such reduction in accommodative-convergence can be yet further enhanced though the use of monofocal glasses or contact lenses \textit{set for the near distance}. This will eliminate \textit{all} visually-initiated accommodative-convergence efforts during the critical early time period in which still non-ambulatory infants are really interested only in near viewing, and maximally assist in re-establishing fusion.

Duration as well as age of onset of strabismus greatly affects the final fusional outcome. Approaching one year of age, surgery becomes more predictable, and retention of some degree of gross stereopsis still possible. Infantile esotropia uncorrected by age three years, on the other hand, has little chance of developing significant stereopsis, and, in the absence of amblyopia, its correction could thereafter once more be considered less urgent until the child is of school age.

**BIBLIOGRÁFIC REFERENCES**


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