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## Modified technique of Inferior oblique anterior transposition in DVD treatment reduces the Antielevation syndrome

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Many authors had described the Antielevation Syndrome following an Anterior Transposition of the Inferior Oblique muscle for Dissociated Vertical Deviation treatment as an undesirable complication that resembles a pseudo hyper function of the inferior oblique, associated with an antiaesthetic outcome in later versions. The classical technique consists in placing the inferior oblique temporarily, up, down or right beside the inferior rectus muscle insertion. The incidence of Antielevation Syndrome occurs in approximately 20% of the patients.

**Purpose:** To present a modification to the classical Anterior Transposition of the Inferior Oblique technique, which significantly lowers the incidence of the Antielevation Syndrome.

**Methods:** All patients included had DVD associated with moderate to severe inferior oblique over action, which could coexist with horizontal deviations. The surgical technique modification consisted in reattaching the inferior oblique right beneath the inferior rectus insertion. Patients who did not reach for at least 12 months of follow up were excluded. A video of this new technique is showed.

**Results:** Since 2006, a total of 101 patients underwent symmetrical modified anterior transposition of the inferior oblique. Horizontal deviations, if present, were corrected within the same procedure. Of these, only 3 (3%) showed Antielevation syndrome. Eighty five (85%) patients showed a satisfactory corrected DVD. The Follow up average was 18 months.

**Conclusions:** The modified Anterior Transposition of the inferior oblique, immediately repositioned beneath the inferior rectus insertion, considerably diminish the appearance of an Antielevation Syndrome.

### Biography

Alexia Romanelli has completed Ophthalmology in 1998 from Instituto Nacional de Oftalmología, Universidad Mayor de San Andrés in La Paz, Bolivia, with and Observership at Primary Children's Hospital and Moran Eye Center Salt Lake City, Utah; PhD in Ophthalmology at Universidad de Salta, Argentina. Strabismus Fellowship at Asociación Para Evitar la Ceguera en Mexico, DF and Pediatric Ophthalmology at Hospital J Garrahan Buenos Aires Argentina. She is a member of several Latin-American Ophthalmology Societies, Councils and WCPOS. She has published as author and coauthor in reputed journals, book chapters, and National Ophthalmology Guidelines in her country. Head of the Pediatric Ophthalmology and Strabismus Department at Instituto Nacional de Oftalmología for 7 years. She is now serving as the National Representative for Prevention of Blindness in ROP.

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