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Strabismus > Volume 15, 2007 - Issue 4

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ORIGINAL PAPER

# The Angle Kappa in Strabismic Individuals

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Pages 193-196 | Received 12 Sep 2006, Accepted 07 Aug 2007, Published online: 08 Jul 2009

**66** Cite this article ▲ https://doi.org/10.1080/09273970701631926

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# Abstract

Purpose To determine angle kappa values in strabismic individuals by means of a synoptophore. Methods One hundred-and-eight strabismic subjects and 102 healthy subjects who served as a control group were enrolled in the study. A complete ophthalmologic examination, including determination of refractive status, bestcorrected visual acuity measurement, slit-lamp biomicroscopic anterior segment evaluation, intraocular pressure measurements with a Goldmann applanation

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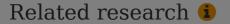
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age of  $32.74 \pm 1.63$  years (range: 7 to 68 years) in the control group. The exotropic

group had significantly higher angle kappa values than either the controls or the esotropic group (independent sample t-test, p < 0.001). None of the study participants had negative angle kappa values. Higher average kappa values were obtained in left eyes than in right eyes in all three groups (student t-test, p < 0.01 for all groups). Conclusion This study showed that exotropic patients have higher angle kappa values when compared to esotropic patients. Ophthalmologists must take the kappa angle into account when performing a Hirschberg or Krimsky test in young and uncooperative patients in order to improve surgical results.

Q KEYWORDS: Kappa angle synoptophore exotropia esotropia strabismus surgery



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