



Q

Home ► All Journals ► Medicine ► Strabismus ► List of Issues ► Volume 15, Issue 4 ► The Angle Kappa in Strabismic Individual

Strabismus >

Volume 15, 2007 - Issue 4

283373ViewsCrossRef citations to dateAltmetric

ORIGINAL PAPER

The Angle Kappa in Strabismic Individuals

Hikmet Basmak, MD , Afsun Sahin, MD , Nilgun Yildirim, MD , Tuncer Saricicek, MD & Sumru Yurdakul, MD

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

Solution Cite this article Attps://doi.org/10.1080/09273970701631926



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, best-corrected visual acuity measurement, slit-lamp biomicroscopic anterior segment evaluation, intraocular pressure measurements with a Goldmann applanation tonometer, and dilated fundus examination, was done on all study participants. Orthoptic examination included Krimsky prism reflex test, prism cover test, and duction tests. Strabismic patients were grouped into two categories according to their deviation types: exotropic and esotropic. A synoptophore (Clement Clarke, London, England) with a specially designed slide (Maddox test slide series A White Binding No: 16; Clement Clarke, London, England) was used to measure angle kappa. Results Of the 108 strabismic patients, 62 were males and 46 were females with a mean age of 23.38 ± 3.68 years (range: 8 to 82 years). There were 54 males and 48 females with a mean

age of 32.74 ± 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.

KEYWORDS:

Kappa angle	synoptophore	exotropia	esotropia	strabismus surge	ery		
Related research 🤨							
People also read			Recommended articles		Cited by		
					37		
Beware Angle Kappa: An Unusual Problem Following Strabismus Surgery 〉							

Niamh Stone et al. Strabismus Published online: 10 Dec 2009

Information for	Open access
Authors	Overview
R&D professionals	Open journals
Editors	Open Select
Librarians	Dove Medical Press
Societies	F1000Research
Opportunities	Help and information
Reprints and e-prints	Help and contact
Advertising solutions	Newsroom
Accelerated publication	All journals
Corporate access solutions	Books

Keep up to date

Register to receive personalised research and resources by email





Copyright © 2025 Informa UK Limited Privacy policy Cookies Terms & conditions

Taylor & Francis Group an informa business



Registered in England & Wales No. 01072954 5 Howick Place | London | SW1P 1WG