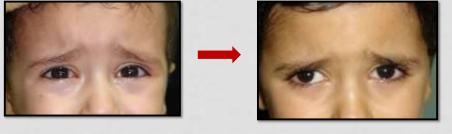
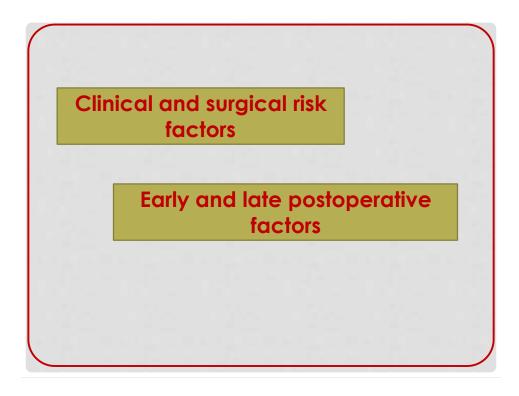


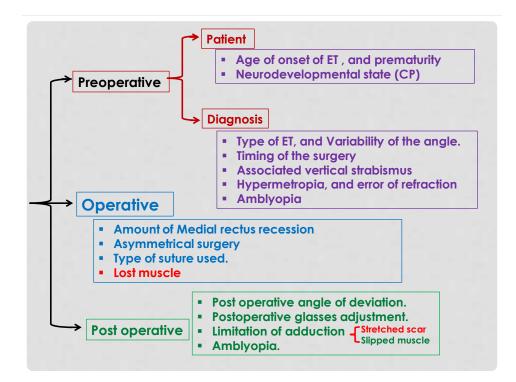
It is an Exotropia Occurring After Surgical Correction of Esotropia

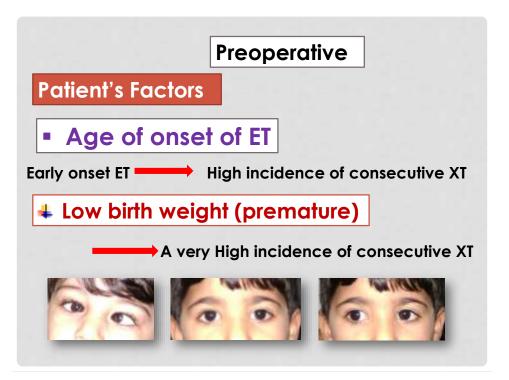




Original Research Article	EJC	Fairopean Journal of Ophthalmology
Clinical and surgical risk factors for consecutive exotropia	1-5 Gi Thue Austin Reported and support future D-Ch. 10.317	r poet restancianos Artigonar mada Processi administra como 1711 : 131667: 11: 587-697607 podo: control hostenaria (ajor
Sophie Bryselbout ^{1,2} , Veronique Promelle ^{1,2} , Florent Pracca Solange Milazzo ^{1,2}	^{1,2} and	
Abstract		
Introduction: Consecutive exotropia is one of the complications of esotropia as 4%-27%. The aim of this study was to identify the risk factors for consecutive es treatment of elotropia. Methods: Seventy-four patients examined in our strabismus consultation for a 2010 to june 2016 were retrospectively included. The age of oraset of esotropia, t esotropia surgery and chosen procedure, the refractive errors, the enomalies of consecutive enomonies and its angle of deviation were reported. Statistical analyses	corropia in the aft consecutive exotr be presence of an cutar instillity, the	armath of surgical opia from January blyopia, the age of age of onset of the
Introduction: Connecutive exotropia is one of the complications of esotropia is $4\mathbb{N}_{-}27\%$. The aim of this study was to identify the risk factors for consecutive extrement of electropia. Methods: Seventy-four patients examined in our strahismus consultation for a 2010 to june 2016 were retroppediated. The age of create of elotropia, to source and fisher's search test. The angle of deviation were reported. Statistical analyses and Fisher's search test, and its angle of deviation were reported. Statistical analyses and Fisher's search test, and its angle of deviation were reported. Statistical analyses and Fisher's search test, in 31%. Surgery was performed before the age of 6 years loop \$2%, the both modial rects. The angle of deviation of consecutive exorcipia, was associated by an 31%. Surgery was performed before the age of 6 years for \$2%, the both modial rects. The angle of analyses are the most important risk factors of Encycles of and to high hyper of search test. Amblyopis and this period and the angle of analyses are the most important risk factors of Encycles of test exorcipia, oblique dysfericion but dimensional tests and substatical analyses and to reach statistical angle formalities, anisometropia, oblique dysfericien but dimensional substance and the mark test and and the hyper opia were the most important risk factors of test dimensions.	corrective exotr be presence of an cular metility, the were performed d with amblyopia in 55% of the pation 00 prime dioptres is remeturopia (p = 0.0 convective exotr h, convergence into	arrowth of surgical opia from January blyopa, the age of sge of onset of the with Student's test 5.1%, hyperopia in to and involved for P(D) in 3%, 21.40 5). opia in our serius. Milciancy appeared
Introduction: Consecutive exotropia is one of the complications of esotropia is 45-275. The aim of this study was to identify the risk factors for consecutive es- treatment of enotropia. Methods: Sevency-four patients examined in our strahismus consultation for a 2010 to june 2016 were retrospectively included. The age of orast of esotropia, it isotropia surgery and chosen procedure, the refractive errors, the enormalies of oc- consecutive enormopia and its angle of deviation were reported. Statistical analyses and Fisher's exact test. Results: Ecotropia occurred in 65% of cases before the age of 1 year, was associated 55% or anisometropia in 31%. Surgery was performed before the age of 6 years for 55% the host modial rect. The argle of deviation of consecutive exorropia was 2 PD in 39% and > 40 PD in 22%, related to amblyopia (ρ = 0.028), and to high hyper Discussion: Amblyopia and hyperopia ware the most important risk factors of Early onset esotropia, stereopia babormalities, anisometropia, obligae dysherction	corrective exotr be presence of an cular metility, the were performed d with amblyopia in 55% of the pation 00 prime dioptres is remeturopia (p = 0.0 convective exotr h, convergence into	arrowth of surgical opia from January blyopa, the age of sge of onset of the with Student's test 5.1%, hyperopia in to and involved for P(D) in 3%, 21.40 5). opia in our serius. Milciancy appeared







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Surgical Outcomes of Medial Rectus Recession in Esotropia with Cerebral Palsy

Jung Ma, MD,* Hee Kining Yang, MD,* Jung Min Duang, MD

Is determine the outcome of a reduced answert of medial rectus (B/B) must be sensorial party (CP) and to compare the surgicial response with that of comat or Participative science (sub) (CP) and (T) party existing and (R) aga-matched estimates wheat CP wite bilaterial MP muscle receivagion.

recession. It of MR muscle recession was reduced by 1 mm per muscle in pa The surgical an

In Outcome Measures: Biocoesis rates, surgical response, currulative probabilities at affecting aurgical responses evaluated by generalized Brear meant models. With the intermeters with CP. The initial success rate was higher (P = 0.037) compared with patients without CP. At the final visit, success rates were consistent with CP. The rate of overcomection performance for the state of even of the rate of overcomection without CP. The rate of overcomection generalized Brear during follow-up was 11% in a patients without CP. The rate of overcomection generalized prediction that of the final visit. 0.000% cc 3 priem diopters per millimeter of MR muscle recession (P 0.001)

Conclusions: Even with the reduced amount of recession, esotropes with CP showed a greater surgice sponse to MR muscle recession than did those without CP, and the incidence of late overo itly higher compared with that of patients without CP



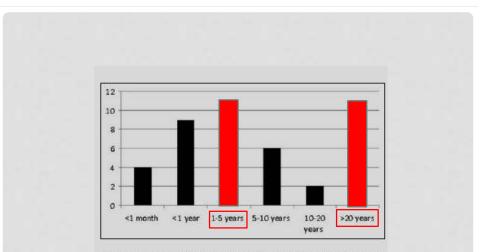


Figure 1. Distribution of patients according the time of onset of consecutive exotropia: number of patients for each time frame.



Diagnosis	 Type of ET, and Variability of the angle. Timing of the surgery Associated vertical strabismus Hypermetropia, anisometropia
	 Amblyopia

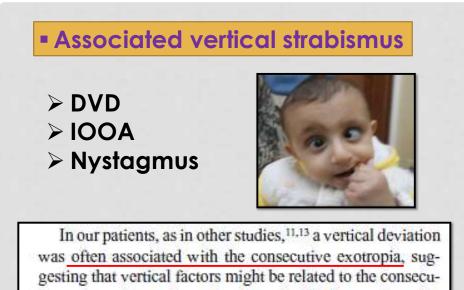
• Type of ET, and Variability of the angle

Angle of esotropia	Surgery dosage	Number of patients	Consecutive XT (no. and percentage)
12-25 PD	Rec MR 7-9 mm	28	7 (25)
26-35 PD	Rec MR 3 mm + Res LR 3 mm	13	1 (7)
36-45 PD	Rec MR 4 mm + Res LR 3 mm	15	2 (13)
46-55 PD	Rec MR 5 mm + Res LR 3 mm	11	3 (27)
56-80 PD	Rec MR 6 mm + Res LR 3 mm	18	5 (27)

Timing of the surgery

Table 1. Age at surgery and correlation with number of patients with consecutive exotropia (XT). Patients operated at 2 years of age showed a higher trend towards development of the consecutive XT (p = 0.08).

Age at surgery (years)	Number of patients	Number of patients with consecutive XT (no. and percentage)
2	16	6 (37)
3	14	3 (21)
4	13	3 (23)
5	22	4 (18)
6	3	0
7	0	0
8	1	1 (100)
9	0	0
10-24	16	1 (6)



tive exotropia somehow. In almost half of our cohort, the patients experienced a consecutive vertical deviation along

Associated high Errors of refraction

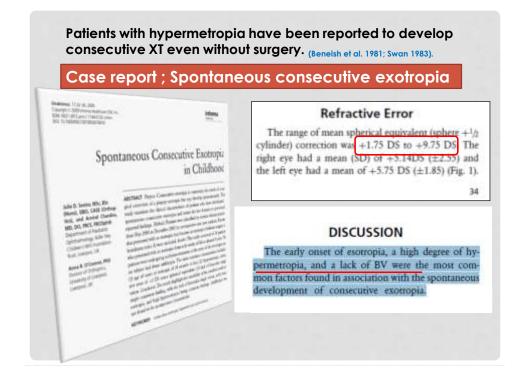
High refractive errors may compromise the measurement of deviations and may cause miscalculation of the surgical amounts

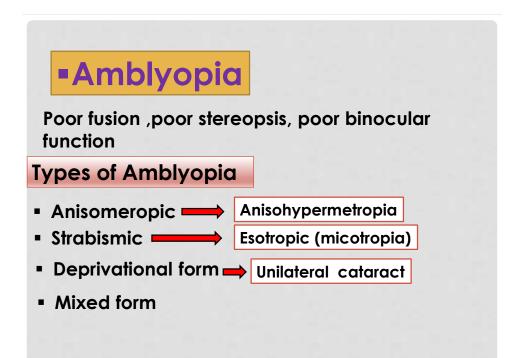


Hypermetro		
/ 1		
Web-Int 11 Mars of the test of relative time and the second s	and additional in the continue of the continue.	
Table 1. Age of onset of esotropia, refractive errors and prevale		
Age of onset of esotropia	Number of subjects, out of 43	Percentage
Infuntile	15	35%
3 months to 1 year	13	30%
>l year	15	35%
Refractive errors	Number of subjects, out of 51	Percentage
Hyperopia >+4.00 D	28	\$5%
Anixometropia	16	31%
Ambiyopia	Number of subjects, out of 69	Percentage
Present	15	31%
Relative amblyopia (22 lines of difference between eyes)	17	25%

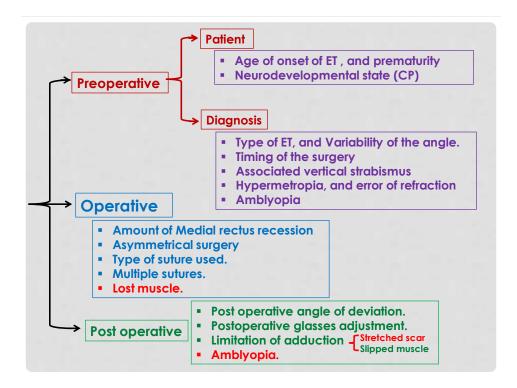
 Diminished accommodative convergence during long-term follow-up.

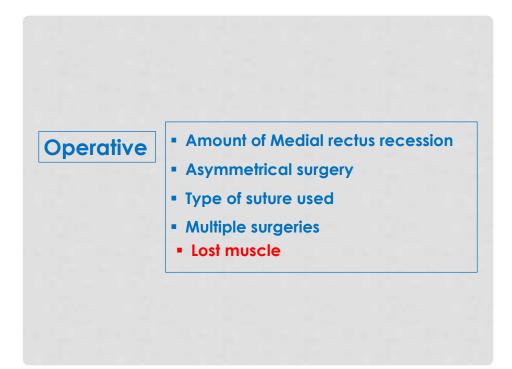
Hypermetropia with amblyopia

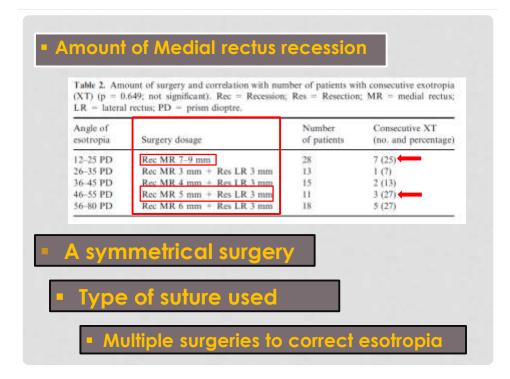


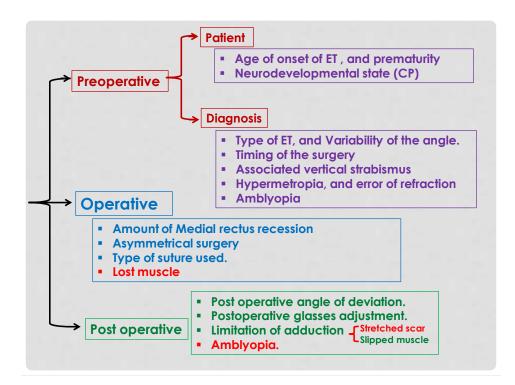


Deep amblyopia 4 1 (25) $VA = FC - 0.3$ 0.4 0.4 Moderate vision 25 6 (24) $VA = 0.4-0.8$ 0.4 0.4 Good vision 56 11 (20) $VA = 0.9-1.0$ 0.4 0.4	Visual acuity (VA) of study population in 2001–2003	Total number	Number of patients with consecutive exotropia (%
Moderate vision 25 6 (24) $VA = 0.4-0.8$ 6 11 (20)		4	1 (25)
VA = 0.4–0.8 Good vision 56 11 (20)		25	6 (24)
		20	0 (21)
VA = 0.9-1.0		56	11 (20)
	VA = 0.9-1.0		







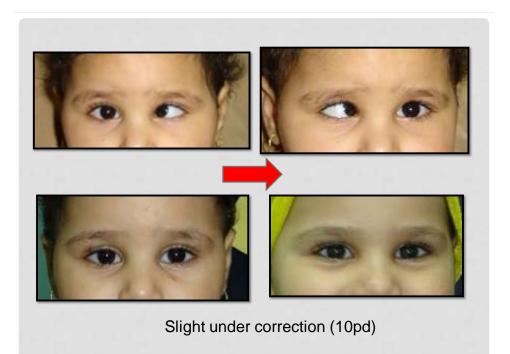


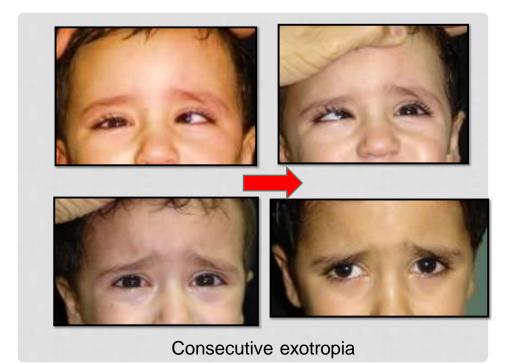


Post operative angle of deviation

Factors associated with applical postoperative defit following surgery for consecutive sources in the second structure of the second structure of the second structure sources in the second structure of the second structure of the second structure sources are second structure of the second structure of the second structure structure structure structure structure and structure structur

Onsecutive exotropia is an exotropia in a previously esotropic patient, most often developing after surgical intervention for esotropia. In surgical planning for consecutive exotropia, the typical immediate postoperative target angle is a small esodeviation because most patients are expected to experience postoperative exodrift. For some patients, exodrift occurs in excess of the anticipated magnitude, leading to recurrence of the exodeviation, whereas for others an unexpected







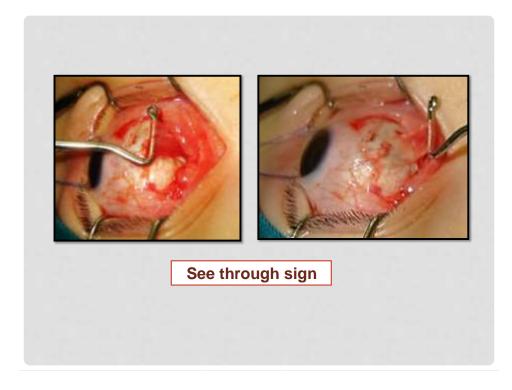
		sk Factors for ecutive Exot		
Risk Factor	Exotropla (n = 47)	No Exotropla (n = 54)	Р	
Refractive error (D)			.103ª	
Mean ± SD	2.53 ± 2.16	1.92 ± 1.41		
Range	0 to 9.00	0.25 to 6.25		Limitation of adduction
Amblyopia	31 (66%)	12 (22.2%)	.004 ^b	
Anisometropia	20 (42.6%)	5 (9.3%)	.003 ^b	
Inferior oblique overaction	13 (27.7%)	12 (22.2%)	.841 ^b	→ Stretched scar
Asymetric surgery	29 (61.7%)	5 (9.3%)	.000 ^b	
Limitation of adduction	14 (29.8%)		.000 ^b	→ Lost muscle
Fusion	5 (10.6%)	7 (13%)	.564 ^b	
Stereopsis	2 (4.3%)	3 (5.6%)	.650 ^b	Slipped muscle
D = diopter; SD = sta ^a Mann-Whitney <i>U</i> te ^b Chi-square test.				





 Medial rectus retracts posteriorly within it's capsule caused by inadequate suturing.

Present shortly after strabismus surgery



Postoperative glasses adjustment

Partially accommodative esotropia

- CXT occurs following surgery.
- **Reduce** the glasses by +2.0 to + 3.0 D if high hyperopia.
- **Discontinue** the glasses if hyperopia \leq +3 D.
- Start Orthoptic and amblyopia treatment.

