

Contents

Chapter 1 Primary Congenital Glaucoma	1	Alterations in the Shape of Chromosomes	57
History	1	Gene Abnormalities	57
Concept	1	References	59
Epidemiology	2		
Heredity	2	Chapter 8 Ocular Embryology with Special	
Prevalence	3	Reference to Chamber Angle Development ...	61
Etiopathogenesis	3	Embryology of the Chamber Angle	61
References	5	References	69
Chapter 2 Pediatrics Glaucoma. Classification	9	Chapter 9 The Anatomy of the Chamber Angle	71
		Anatomy of the Chamber Angle	71
Chapter 3 Clinical Features	11	Summary	80
Symptoms	11	Reference	80
Signs	11		
References	17	Chapter 10 Examination	
		of the Chamber Angle	81
Chapter 4 Examination of the Newborn		Gonioscopic Contact Lenses	81
Under General Anesthesia	19	Sterilization of Gonioscopic Contact Lenses	81
Effects of Anesthetic Agents on Intraocular Pressure	19	Summary	84
References	28	Reference	84
Chapter 5 Normal Intraocular Pressure		Chapter 11 Normal Chamber Angle	
in Children from Birth to Five Years of Age	29	in the Adult: Gonioscopic Images	85
Tonometers Used for Measuring Intraocular		Lenses for Gonioscopy	85
Pressure in Children	29	The New Gonioscopic Lens of Roussel and	
Normal Intraocular Pressure in Children from Birth		Fankhauser	92
to 5 Years of Age Under General Anesthesia	29	Summary	98
Normal Intraocular Pressure in Newborns Between		References	98
12 h and 15 Days of Age Under Local Anesthesia			
and Without General Anesthesia	33	Chapter 12 Normal Chamber Angle	
Ocular rigidity. Ytterborg's studies accounting		in Newborns and Children	99
for children's intraocular pressure being		The Normal Chamber Angle	99
5 mmHg lower than in adults	35	References	106
References	38		
		Chapter 13 Pathological Chamber Angle	
Chapter 6 Ocular Echometry		in Congenital Glaucoma and Its Implications	
in the Diagnosis of Congenital Glaucoma	41	in Indications for Surgery	107
Introduction	41	Pathological Chamber Angle in Congenital	
Echometry	42	Glaucomas	107
Conclusions	52	The Use of SL-OCT in Diagnosis	
References	53	and Follow-Up of Congenital Glaucomas	110
		References	117
Chapter 7 Genetics in Congenital Glaucoma ..	55		
What Is a Chromosome?	55		
Chromosome Abnormalities	56		

Chapter 14 Clinical History for Congenital Glaucoma	119	Chapter 21 Congenital Glaucoma Associated with Ocular Malformations	367
Chapter 15 Surgery for Congenital Glaucoma	125	Rieger Mesodermal Dysgenesis of the Cornea	
Goniotomy	125	and Iris	367
Trabeculotomy for Chamber Angle Type I	131	Peters Anomaly	380
Surgery for Refractory Congenital Glaucoma		Aniridia	388
Type II	144	Aniridia and Wilms Tumor	397
Nonpenetrating Deep Sclerectomy for Late		Sclerocornea and Flat Cornea	397
Congenital Glaucoma	155	Summary	398
Valve Devices in Congenital Glaucomas	171	References	399
Annex	180	Chapter 22 Congenital Glaucoma Associated with Ocular and Somatic Malformations	401
References	185	Phakomatosis	401
Chapter 16 Results of Surgery for Congenital Glaucoma	187	Nevus of Ota	416
Percentage of Trabeculotomy		References	419
and Combined Surgery in the Study Group	187	Chapter 23 Congenital Glaucoma Associated with Congenital Errors of the Metabolism	421
References	191	Hyperaminoaciduria: Löwe's Oculocerebrorenal	
Chapter 17 Optic Nerve	193	Syndrome	421
The Glaucomatous Optic Nerve Staging System		Homocystinuria	424
with Confocal Tomography	193	Hurler Syndrome	424
Optic Nerve in Congenital Glaucoma	205	Endogenous Ochronosis (Alkaptonuria). Glaucoma	
Megalopapilla: Large Optic Nerve Heads,		Secondary to Luxation of the Lens	424
or Megalodiscs	214	References	430
Congenital Anomalies of the Optic Nerve	227	Chapter 24 Congenital Mesodermal Dystrophies	431
Clinical Cases	243	Marfan Syndrome	431
References	286	Marchesani Syndrome	433
Chapter 18 Visual Field in Congenital Glaucoma	289	Summary	436
Material	289	References	436
Method	290	Chapter 25 Nonhereditary Congenital Glaucomas	437
Results	290	Embryopathies: Rubella	437
High-Pass-Resolution Perimetry		Leukocoria	437
in Normal Children in Congenital Glaucoma	294	Other Syndromes Associated with Glaucoma	452
References	298	Summary	452
Chapter 19 Differential Diagnosis of Primary Congenital Glaucoma	299	References	453
Nasolacrimal Duct Obstruction	299	Chapter 26 Anatomopathologic Evaluation in Pure Congenital Glaucoma	455
Megalocornea	299	Pathological Anatomy of Pediatric Glaucomas	455
Rubeola	299	Microscopy of Trabeculectomy Specimens	458
Obstetric Trauma	299	References	466
Myopia	299	Chapter 27 False-Positive Diagnoses	467
Pseudocongenital Cortisone Glaucoma	303	Clinical History No. 1	467
References	309	Clinical History No. 2	470
Chapter 20 Goniodysgenesis or Late Congenital Glaucoma. Pigmentary Glaucoma	311	Clinical History No. 3	472
Late Congenital Glaucoma: Goniodysgenesis	311	Clinical History No. 4	475
Pigmentary Glaucoma	331	Chapter 28 Epilog	477
References	364	Subject Index	479
Further Reading	365		



<http://www.springer.com/978-3-540-69144-0>

The Glaucomas

Volume I - Pediatric Glaucomas

Sampaolesi, R.; Zarate, J.; Sampaolesi, J.R.

2009, XXII, 486 p., Hardcover

ISBN: 978-3-540-69144-0