



# Pentacam Literature Guide

## **Refractive**

### **Studies:**

#### **2012**

##### **Quality of Vision in Eyes After Selective Lamellar Keratoplasty**

Shizuka Koh, MD, Naoyuki Maeda, MD, Tomoya Nakagawa, MD, and Kohji Nishida, MD  
Cornea \_ Volume 31, Number 11, Suppl. 1, November 2012

##### **Scheimpflug Camera Measurement of Anterior and Posterior Corneal Curvature in Eyes With Previous Radial Keratotomy**

Massimo Camellin, MD; Giacomo Savini, MD; Kenneth J. Hoffer, MD; Michele Carbonelli, MD; Piero Barboni, MD  
Journal of Refractive Surgery • Vol. 28, No. 4, 2012

##### **Dual versus single Scheimpflug camera for anterior segment analysis: Precision and agreement**

Jaime Aramberri, MD, Luis Araiz, MS, Ane Garcia, OD, Igor Illarramendi, OD, Jaione Olmos, OD, Izaskun Oyanarte, OD, Amaya Romay, OD, Itxaso Vigara, OD  
J Cataract Refract Surg 2012; :-— Q 2012 ASCRS and ESCRS

##### **Riboflavin injection into the corneal channel for combined collagen crosslinking and intrastromal corneal ring segment implantation**

Aylin Kılıc., MD, Gunhal Kamburoglu, MD, Arsen Akinci, MD  
J Cataract Refract Surg 2012; 38:878–883 Q 2012 ASCRS and ESCRS

##### **Variability in Scheimpflug image–derived posterior elevation measurements in keratoconus and collagen-crosslinked corneas**

Georgios Labiris, MD, PhD, Athanassios Giarmoukakis, MD, Haris Sideroudi, PhD, Panagiota Bougatsou, MD, Ilias Lazaridis, MD, Vassilios P. Kozobolis, MD, PhD  
J Cataract Refract Surg 2012; 38:1616–1625 Q 2012 ASCRS and ESCRS

##### **Pentacam based phototherapeutic keratectomy outcome in superficial corneal opacities**

Mohammad A Rashad



Clinical Ophthalmology 2012;6 885–894; © 2012 Rashad, publisher and licensee Dove Medical Press Ltd.

### **Corneal Densitometry as an Indicator of Corneal Health**

*Ahmad Muneer Otri, MD, Usama Fares, MD, Mouhamed A. Al-Aqaba, MBChB, Harminder S. Dua, MD, PhD*

*Ophthalmology 2012;119:501–508 © 2012 by the American Academy of Ophthalmology.*

### **Correlation of Corneal Elevation With Severity of Keratoconus by Means of Anterior and Posterior Topographic Analysis**

*Rie Ishii, MD, Kazutaka Kamiya, MD, PhD, Akihito Igarashi, MD, PhD, Kimiya Shimizu, MD, PhD, Yoshikazu Utsumi, MD, PhD, and Takashi Kumanomido, MD; Cornea, Volume 31, Number 3, March 2012*

## **2011:**

### **Anterior segment imaging in pediatric ophthalmology**

*Kamiar Mireskandari, MBChB, FRCSEd, FRCOphth, PhD, Nasrin N. Tehrani, MBChB, MSc, FRCSEd (Ophth), FRCSC, Cynthia VandenHoven, BAA, CRA, Asim Ali, MD, FRCSC*  
*J Cataract Refract Surg 2011; 37:2201–2210 Q 2011 ASCRS and ESCRS*

### **International values of corneal elevation in normal subjects by rotating Scheimpflug camera**

*Matthew T. Feng, MD, Michael W. Belin, MD, Renato Ambrósio Jr, MD, PhD, Satinder P.S. Grewal, MD, Wang Yan, MD, PhD, Mohamed Shafik Shaheen, MD, PhD, Charlotte A. Jordon, BOptom, Charles McGhee, MD, PhD, Naoyuki Maeda, MD, Tobias H. Neuhann, MD, H. Burkhard Dick, MD, PhD, Andreas Steinmueller, MSc*  
*J Cataract Refract Surg 2011; 37:1817–1821 Q 2011 ASCRS and ESCRS*

### **Corneal topography indices after corneal collagen crosslinking for keratoconus and corneal ectasia: One-year results**

*Steven A. Greenstein, BA, Kristen L. Fry, OD, MS, Peter S. Hersh, MD*  
*J Cataract Refract Surg 2011; 37:1282–1290 Q 2011 ASCRS and ESCRS*

### **Corneal thickness changes after corneal collagen crosslinking for keratoconus and corneal ectasia: One-year results**

*Steven A. Greenstein, BA, Vinnie P. Shah, MD, Kristen L. Fry, OD, MS, Peter S. Hersh, MD*  
*J Cataract Refract Surg 2011; 37:691–700 Q 2011 ASCRS and ESCRS*

### **Corneal flap assessment with Rondo microkeratome in laser in situ keratomileusis**

*Eleftherios I. Paschalis & Antonis P. Aristeidou & Nikitas C. Foudoulakis & Lambros A. Razis*



Graefes Arch Clin Exp Ophthalmol (2011) 249:289–295; DOI 10.1007/s00417-010-1433-7

### **Computerized Scheimpflug densitometry as a measure of corneal optical density**

#### **after excimer laser refractive surgery in myopic eyes**

Gilda Cennamo, MD, PhD, Raimondo Forte, MD, PhD, Bernardino Aufiero, COT, Agostino La Rana, MD

J Cataract Refract Surg 2011; 37:1502–1506 Q 2011 ASCRS and ESCRS

### **Comparison of anterior segment measurements by 3 Scheimpflug tomographers and 1 Placido corneal topographer**

Giacomo Savini, MD, Michele Carbonelli, MD, Alessandra Sbreglia, OD, Piero Barboni, MD, Giulia Deluigi, MD, Kenneth J. Hoffer, MD

J Cataract Refract Surg 2011; 37:1679–1685 Q 2011 ASCRS and ESCRS

### **What's in a Name: Keratoconus, Pellucid Marginal Degeneration, and Related Thinning Disorders**

Michael W. Belin, Ijeoma M. Asota, Renato Ambrosio, Jr, and Stephen S. Khachikian; *American Journal of Ophthalmology*, August 2011, 2011, Page: 157 – 162

### **Novel Pachymetric Parameters Based on Corneal Tomography for Diagnosing Keratoconus**

Renato Ambrósio, Jr, MD, PhD; Ana Laura C. Caiado, MD; Frederico P. Guerra, MD; Ricardo Louzada, MD; Abhijit Sinha Roy, PhD; Allan Luz, MD; William J. Dupps, MD, PhD; Michael W. Belin, MD, FACS; *Journal of Refractive Surgery*, Posted online: July 29, 2011, 2011

### **Tomographic Normal Values for Corneal Elevation and Pachymetry in a Hyperopic Population**

Joan T. Kim, Michael Cortese, Michael W. Belin<sup>3</sup>, Renato Ambrosio Jr and Stephen S. Khachikian; J Clinic Experiment Ophthalmol Volume 2 • Issue 2 • 1000130, ISSN:2155-9570 JCEO an open access journal

### **Estimation of effective lens position using a method independent of preoperative keratometry readings**

Ian Dooley, MRCOphth, Sofia Charalampidou, MRCPI, MRCOphth, John Nolan, PhD, James Loughman, FAOI, PhD, Laura Molloy, BA, Stephen Beatty, FRCOphth, MD; J Cataract Refract Surg 2011; 37:506–512 Q 2011 ASCRS and ESCRS



### **Comparison of anterior segment measurements with rotating Scheimpflug photography and partial coherence reflectometry**

Jinhai Huang MD<sup>a</sup>, Konrad Pesudovs PhD<sup>a</sup>, Daizong Wen MD<sup>a</sup>, Shihao Chen MD, OD<sup>a</sup>, Thomas Wright BPsyc (Hons)<sup>a</sup>, Xiaoyu Wang MD<sup>a</sup>, Yini Li MD<sup>a</sup> and Qinmei Wang MD; J Cataract Refract Surg 2011; 37:341–348 Q 2011 ASCRS and ESCRS

### **Posterior Corneal Elevation After LASIK With Three Flap Techniques as Measured by Pentacam**

Dilraj S. Grewal, MD; Gagandeep S. Brar, MD; Satinder Pal Singh Grewal, MD  
Journal of Refractive Surgery • Vol. xx, No. x, 2010 1

### **Automated keratometry in routine cataract surgery: Comparison of Scheimpflug and conventional values**

Richard J. Symes, BSc, MRCOphth, Paul G. Ursell, MD, FRCOphth; J Cataract Refract Surg 2011; 37:295–301 Q 2011 ASCRS and ESCRS

### **Intraocular lens alignment from Purkinje and Scheimpflug imaging**

Patricia Rosales PhD; Alberto de Castro MSc; Ignacio Jiménez-Alfaro MD PhD; Susana Marcos PhD; Instituto de Óptica 'Daza; Clinical and Experimental Optometry 93.6 November 2010

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### **Corneal volume, pachymetry, and correlation of anterior and posterior corneal shape in subclinical and different stages of clinical keratoconus**

David P. Pinero, MSc, Jorge L. Alió, MD, PhD, Alicia Aleso, OD, Munir Escaf Vergara, MD, Mauricio Miranda, MD  
J Cataract Refract Surg 2010; 36:814–825 Q 2010 ASCRS and ESCRS

### **Corneal power measurement with a rotating Scheimpflug imaging system after Descemet-stripping automated endothelial keratoplasty**

Pawan Prasher, MD, Orkun Muftuoglu, MD, R. Wayne Bowman, MD, H. Dwight Cavanagh, MD, PhD, James P. McCulley, MD, V. Vinod Mootha, MD  
J Cataract Refract Surg 2010; 36:1358–1364 Q 2010 ASCRS and ESCRS

### **Corneal Higher-Order Aberrations after Descemet's Stripping Automated Endothelial Keratoplasty**

*Orkun Muftuoglu, MD, Pawan Prasher, MD, R. Wayne Bowman, MD, James P. McCulley, MD, V. Vinod Mootha, MD*

*Ophthalmology 2010;117:878–884 © 2010 by the American Academy of Ophthalmology.*

### **Corneal Biomechanical Metrics and Anterior Segment Parameters in Mild Keratoconus**

*Bruno M. Fontes, MD, Renato Ambrósio, Jr, MD, PhD, Daniela Jardim, MD, Guillermo C. Velarde, DSc, Walton Nosé, MD;*

*Ophthalmology 2010;117:673–679 © 2010; American Academy of Ophthalmology.*

### **Comparison of Central Corneal Thickness Measurement Using Ultrasonic Pachymetry, Rotating Scheimpflug Camera, and Scanning-Slit Topography**

MOHAMMAD REZA SEDAGHAT, RAMIN DANESHVAR, ABBAS KARGOZAR, AKBAR DERAKHSHAN, AND MONA DARAEI

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doi:10.1016/j.ajo.2010.06.013

### **Anterior Chamber characteristics of keratoconus assessed by rotating Scheimpflug imaging**

Illes Kovacs, MD, PhD, Kata Mihaltz, MD, Janos Nemeth, MD, DSc, Zoltan Z. Nagy, MD, DSc  
J Cataract Refract Surg 2010; 36:1101–1106 Q 2010 ASCRS and ESCRS

### **Marked remodelling of the anterior corneal surface following collagen cross-linking with riboflavin and UVA**

Farhad Hafezi, Tobias Koller, Paolo Vinciguerra, et al.; *Br J Ophthalmol* published online October 8, 2010 doi: 10.1136/bjo.2010.184978

### **Corneal Collagen Cross-linking for Ectasia After Excimer Laser refractive Surgery: 1-year Results**

Paolo Vinciguerra, MD; Fabrizio I. Camesasca, MD; Elena Albè, MD; Silvia Trazza, BS [*J Refract Surg.* 2010;26(7):486-497.]

### **Natural history of corneal haze after collagen crosslinking for keratoconus and corneal ectasia: Scheimpflug and biomicroscopic analysis**

Steven A. Greenstein, Kristen L. Fry, OD, MS, Jalpa Bhatt, Peter S. Hersh, MD; J Cataract Refract Surg 2010; 36:2105–2114 Q 2010 ASCRS and ESCRS



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Shuning Li MD PhD, Hongtao Wang MD, Dapeng Mu MD PhD, Jing Fu MD, Xiaozhen Wang MD PhD, Jian Wang MD PhD and Ningli Wang MD PhD; © 2010 The Authors, Journal compilation © 2010 Royal Australian and New Zealand College of Ophthalmologists

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Agnes I. Takacs, MD; Kata Mihaltz, MD; Zoltan Z. Nagy, MD, DSc, in: Journal of Refractive Surgery, 2010

**Central Corneal Thickness, Anterior Chamber Depth, and Pupil Diameter Measurements Using Visante OCT, Orbscan, and Pentacam (2010)**

Ahmet Taylan Yazici, MD; Ercument Bozkurt, MD; Cengiz Alagoz, MD; Nese Alagoz, MD; Gokhan Pekel, MD; Vedat Kaya, MD; Omer Faruk Yilmaz, MD, in: Journal of Refractive Surgery 2010;26:127-133

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Paolo Vinciguerra, MD; Elena Albè, MD; Ashraf M. Mahmoud, PhD; Silvia Trazza, BS; Farhad Hafezi, MD; Cynthia J. Roberts, PhD in: J Refract Surg 2010;26(9):669-676.

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Robert O. Kwon, MD; Marianne O. Price, PhD; Francis W. Price, Jr, MD; Renato Ambrosio, Jr, MD; Michael W. Belin, MD; in: J. Refract Surg. 2010.

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Dilraj S. Grewal, MD; Gagandeep S. Brar, MD; Satinder Pal Singh Grewal, MD, in: Journal of Refractive Surgery 2010



**Biomechanical and Tomographic Analysis of Unilateral Keratoconus (2010);**

Bruno M. Fontes, MD; Renato Ambrósio, Jr, MD, PhD; Marcella Salomão, MD; Guillermo C. Velarde, DSc; Walton Nosé, MD; From the Department of Ophthalmology, Federal University of São Paulo (Fontes, Nosé); REFRACTA – RIO (Fontes, Ambrósio), Renato Ambrósio Eye Institute (Ambrósio, Salomão), Benjamin Constant Institute (Salomão), and Fluminense Federal University (Velarde), Rio de Janeiro, Brazil; in: J Refract Surg. 2010;26(9):677-681

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*Tomoya Nakagawa, Naoyuki Maeda, Ryo Kosaki, Yuichi Hori, Tomoyuki Inoue, Makoto Saika, Toshifumi Mihashi, Takashi Fujikado, Yasuo Tano*  
Investigative Ophthalmology & Visual Science, June 2009, Vol. 50, No. 6  
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**Effect of bottle height on the corneal endothelium during phacoemulsification**

Hisaharu Suzuki, MD, PhD, Kotaro Oki, MD, PhD, Toshihiko Shiwa, MD, PhD, Hideaki Oharazawa, MD, PhD, Hiroshi Takahashi, MD, PhD  
J Cataract Refract Surg 2009; 35:2014–2017 Q 2009 ASCRS and ESCRS

**Effect of anterior and posterior corneal surface irregularity on vision after Descemet-stripping endothelial keratoplasty**

Takefumi Yamaguchi, MD, Kazuno Negishi, MD, Kazuko Yamaguchi, MD, Dogru Murat, MD, Yuichi Uchino, MD, Shigeto Shimmura, MD, Kazuo Tsubota, MD  
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**Effect of age on changes in anterior chamber depth and volume after laser in situ keratomileusis**

Ryo Nishimura, MD, Kazuno Negishi, MD, Murat Dogru, MD, Megumi Saiki, MD, Hiroyuki Arai, MD, Ikuko Toda, MD, Takefumi Yamaguchi, MD, Kazuo Tsubota, MD  
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### **Diurnal Variation of Corneal Shape and Thickness**

Scott A. Read and Michael J. Collins  
Optom Vis Sci 2009;86:170–180)

### **Comparison of central corneal thickness measurements by Pentacam, noncontact specular microscope, and ultrasound pachymetry in normal and post-LASIK eyes**

Saleh Al-Ageel, MD, Abdulrahman M. Al-Muammar, MD, FRCS  
Department of Ophthalmology, College of Medicine, King Saud University, Riyadh, Saudi Arabia

### **Minor Influence of Myopic Laser In Situ Keratomileusis on the Posterior Corneal Surface**

*Alfonso Perez-Escudero, Carlos Dorronsoro, Lucie Sawides, Laura Remon, Jesus Merayo-Llodes, and Susana Marcos*  
Investigative Ophthalmology & Visual Science, September 2009, Vol. 50, No. 9  
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### **Central Ablation Depth and Postoperative Refraction in Excimer Laser Myopic Correction Measured With Ultrasound, Scheimpflug, and Optical Coherence Pachymetry (2009);**

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Günhal Kamburoglu, MD; Aylın Ertan, MD; Osman Saraçbasi, PhD; From Kudret Eye Hospital (Kamburoglu, Ertan) and the Department of Biostatistics, Hacettepe University School of Medicine, Ankara, Turkey; in: Journal of Refractive Surgery 2009;25:377-382



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Marco A. Miranda, Hema Radhakrishnan, and Clare O'Donnell, American Academy of Optometry; in *Optometry and Vision Science* 2009; 86(3):266-272; 1040-5488/09/8603-0266/0

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Byoung Jin Ha, MD; Sun Woong Kim, MD; Sang Woo Kim, MD; Eung Kweon Kim, MD, PhD; Tae-im Kim, MD University College of Medicine, Seoul (Sang W. Kim, E.K. Kim, T. Kim); the Department of Ophthalmology, Soonchunhyang University College of Medicine, Bucheon (Sun W. Kim); and Siloam Eye Hospital (Ha), Seoul, Korea; in: *Journal of Refractive Surgery* 2009;25:290-295

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David P. Pinero, PhD, Cristina Saenz González, OD, Jorge L. Alió, MD, PhD; Visum-Instituto de Oftalmológico de Alicante, Alicante, Spain; in: *Journal of Cataract & Refractive Surgery* 2009; 35:113–120

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*Scott A. Read, Michael J. Collins, and D. Robert Iskander*

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Omur O Ucakhan, MD, Pelin Gesoglu, MD, Muhip Ozkan, PhD, Ayfer Kanpolat, MD

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Matsuda J, Hieda O, Kinoshita S. Department of Ophthalmology, Kyoto Prefectural University of Medicine, Kyoto, Japan. [jmatsuda@ophth.kpu-m.ac.jp](mailto:jmatsuda@ophth.kpu-m.ac.jp) [Jpn J Ophthalmol.](#) 2008 Jul-Aug;52(4):245-9. Epub 2008 Sep 5.

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Hassan Hashemi, MD, Shiva Mehravaran, MD; From the Farabi Eye Hospital (Hashemi), Department of Ophthalmology, School of Medicine, Tehran University of Medical Sciences, and the Noor Ophthalmology Research Center (Hashemi, Mehravaran), Noor Eye Hospital, Tehran, Iran; in: J Cataract Refract Surg 2007; 33:1701–1707

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# Cataract

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