

References

- 1) **Ambrósio R Jr, Alonso RS, Luz A, Velarde LGC.** Corneal-thickness spatial profile and corneal-volume distribution: Tomographic indices to detect Keratoconus. J Cataract Refract Surg. 2006; 32: 1851- 9.
- 2) **Ambrósio Jr R.** Corneal Biomechanics, Pachymetric Progression Profile, and Corneal Volume: Indices for Detecting Ectasia and Screening Refractive Candidates. ASCRS 2007 Online Poster - Honorable Mention Category: Refractive. <http://ascrs2007.abstractsnet.com/acover.wcs?entryid=000242> (accessed on August- 5-2010).
- 3) **Arffa RC, Klyce SD, Busin M.** Keratometry in Epikeratophakia J Refract Surg 1986; 2:61-4.
- 4) **Auffarth GU, Wang L, Vo" lcker HE.** Keratoconus evaluation using the Orbscan Topography System. J Cataract Refract Surg 2000; 26:222– 8.
- 5) **Belin MW.** Topography and scheimpflug imaging. Cataract &refractive surgery today.2006; 47:50.
- 6) **Belin MW, Khachikian SS.** Keratoconus: it is hard to define, but . . . Am J Ophthalmol 2007; 143:500 –3.
- 7) **Belin MW.** Keratoconus / Ectasia Detection with the Oculus Pentacam: Belin/Ambrósio Enhanced Ectasia Display. <Http://www.oculus.de/us/downloads/dyn/oculus/presse/176/belin.pdf>. (Accessed on march-13-2010).
- 8) **Belin MW.** Next generation technology for the cataract &refractive surgeon. Cataract&refract surg today 2005; supplement January: 7.
- 9) **Belin MW, Holladay JT, Michelson MA, Woodhams JT and Ahmed IK:** The Pentacam: Precision, Confidence, Results, and Accurate "KS!" Insert to Cataract & Refractive Surgery Today, January 2007; 16:258.
- 10) **Belin MW, Holladay JT, Ambrósio Jr.** Why cataract and refractive surgeons need the Pentacam. Insert to cataract & refractive surgery today 2006;21-24
- 11) **Belin MW, Ratliff CD.** Evaluating data acquisition and smoothing functions of currently available videokeratoscopes. J Cataract Refract Surg. 1996; 22:421-6.

- 12) **Binder PS.** Videokeratography. *CLAO J.* 1992; 21:133-44.
- 13) **Binder PS, Lindstrom RL, Stulting RD, et al.:** Keratoconus and corneal ectasia after LASIK. *J Cataract Refract Surg* 2005; 35: 2035–8.
- 14) **Burkhard Dick and Mana Tehrani:** PIOL Simulation for High Res Imaging. *Cataract & refractive surgery today Europe*, January 2007; 3:46-47.
- 15) **Bogan SJ, Waring GO III, Ibrahim O, Drews C, Curtis L.** Classification of normal corneal topography based on computer-assisted videokeratography. *Arch Ophthalmol* 1990; 108:945-9.
- 16) **Cairns G, McGhee CNJ.** Orbscan computerized topography: attributes, applications, and limitations. *J Cataract Refract Surg* 2005; 31:205–20.
- 17) **Collier SA, Madigan MC and Penfold PL:** Expression of membrane type 1 matrix metalloproteinase (MT1-MMP) and MMP-2 in normal and keratoconic corneas. *Curr. eye. Res.* 2000; 21:662.
- 18) **Daxer A and Fratz Ip:** Collagen fibrils orientation in the human corneal stroma and its implication in keratoconus. *Invest. Ophthalmol. Vis Sci.* 1997; 38:121.
- 19) **De sanctis , Missolungi A, Mutani B, et al.** Reproducibility and repeatability of central corneal thickness measurement in keratoconus using the rotating Scheimpflug camera and ultrasound pachymetry. *Am J Ophthalmol* 2007; 144:712– 8.
- 20) **De Sanctis U, Loiacono C , Richiardi L , et al .** Sensitivity and Specificity of Posterior Corneal Elevation Measured by Pentacam in Discriminating Keratoconus/Subclinical Keratoconus. *Ophthalmology* 2008; 115: 1536–8.
- 21) **Duffey RJ, Leaming D.US.:**Trend in refractive surgery.ISRS/AAO survey. 2004;21:742-8
- 22) **Edrington TB, Zadnik K and Barr JT:** Keratoconus. *Optom Clin*1994; 4:65.
- 23) **Fam HB, Lim KL.** Corneal elevation indices in normal and keratoconic eyes. *J Cataract Refract Surg* 2006; 32:1281–7.
- 24) **Foster S, Azar D and Dolhman CH:** The cornea, 5thed. Lippincott, Williams's and Wilkins publ. 2005; 49:890.
- 25) **Gondhowiardjo TD, Van Haeringen NJ and Volker-Dieben HJ et al:** Analysis of corneal aldhyde dehydrogenase pattern in pathologic corneas. *Cornea* 1993; 12:146.

- 26) **Grewal SP.** Evaluation of anterior segment pathologies using pentacam. http://www.oculus.de/fr/sites/detail_ger.php?Page=464. (Accessed on March-09-2010).
- 27) **Holladay JT, Hill WE, Steinmueller A (2009):** Corneal Power Measurements Using Scheimpflug Imaging in Eyes With Prior Corneal Refractive Surgery. *Journal of Refractive Surgery*; 25: 862-8.
- 28) **Kaas-Hansen M ():** The histopathological changes of keratoconus. *Acta.ophth.* 1993;71:411.
- 29) **Kanski JK:** Corneal ectasias and refractive surgery in *Clinical ophthalmology*, A systemic approach: 5th ed. Butter worth-Heinemamn. 2003; 4.101.
- 30) **Kaufman HE, Barron BA and Mcdonald MB:** The cornea, 2nded. Oxford. 1983; 3:51.
- 31) **Kenny MC, Burgeson RE and Butkowski RJ:** Abnormality of extracellular matrix in keratoconic corneas, *Cornea*. 1997; 16:345.
- 32) **Klein SR, Epstein RJ, Randleman JB, Stulting RD.** Corneal ectasia following laser in-situ keratomileusis in patients without apparent pre-operative risk factors. *Cornea* 2006; 25:388–403.
- 33) **Krachmer JH, Feder RS and Belin MW:** Keratoconus and related non-inflammatory corneal thinning disorders. *Surv. Ophthalmology*. 1994; 28:293.
- 34) **Krachmer JH, Feder RS, BelinMW.** Keratoconus and related noninflammatory corneal thinning disorders. *Surv Ophthalmol* 1984; 28:293–322.
- 35) **Levene JR.** An evaluation of the handheld keratoscope as a diagnostic instrument for corneal astigmatism. *Br J Physiol Opt* 1962; 19:237–51.
- 36) **Li X, Rabinowitz YS, Rasheed K, Yang H.** Longitudinal study of the normal eyes in unilateral keratoconus patients. *Ophthalmology* 2004; 111:440–6.
- 37) **Maeda N, Klyce SD, Smolek MK, Thompson HW.** Automated keratoconus screening with corneal topography analysis. *Invest Ophthalmol Vis Sci* 1994; 35:2749–57.
- 38) **Maeda N, Klyce SD, Smolek MK.** Comparison of methods for detecting keratoconus using videokeratography. *Arch Ophthalmol* 1995; 113:870–4.

- 39) **McMahon TT, Robin JB, Scarpulla KM, et al.** The spectrum of topography found in keratoconus. *CLAO J* 1991; 17: 198-204.
- 40) **Meek Km, Tuft SJ and Huang Y et al** (2005): Changes in Collagen Orientation and Distribution in keratoconus Corneas. *Invest. Ophthalmol. Vis. Sci.*46: 1948.
- 41) **Neuhann TH.** Pentacam system's over view: understanding its benefits. *Highlights of ophthalmology* 2007; 35:1.
- 42) **Peduzzi M.Torlai F and Delvechio G. ()**: Bilateral pigmented retinopathy following measles: long-term follow- up and possible association with keratoconus. *Eur J Ophthalmol* 1991; 1:148.
- 43) **Quisling S, Sjoberg S, Zimmerman B, et al.** Comparison of Pentacam and Orbscan IIz on posterior curvature topography measurement in keratoconus eyes. *Ophthalmology* 2006; 113:1629-32.
- 44) **Rabinowitz YS.** Keratoconus. *Surv Ophthalmol* 1998; 42:297– 319.
- 45) **Rabinowitz YS.** Videokeratographic indices to aid in screening for keratoconus. *J Refract Surg* 1995; 11:371–9.
- 46) **Rabinowitz YS, McDonnell PJ.** Computer-assisted corneal topography in keratoconus. *Refract Corneal Surg* 1989; 5:400–8.
- 47) **Rabinowitz YS, Yang H, Brickman Y, et al.** Videokeratography database of normal human corneas. *Br J Ophthalmol.* 1996; 80:610-6.
- 48) **Rabinowitz YS (2005):** Ectatic disorders of the cornea in Foster C, Azar D,Dolhman CH. *The cornea*, 50:912.Lippincott, Williams's and Willkins publ.
- 49) **Radner W, Zehetamyer M and Skorpik CH et al ()**: Altered organization of collagen in the apex of keratoconic corneas. *Ophth. Research.* 1998; 30:327.
- 50) **Rao SN, Raviv T, Majmudar PA, Epstein RJ.** Role of Orbscan II in screening keratoconus suspects before refractive corneal surgery. *Ophthalmology* 2002; 109:1642–6.
- 51) **RENATO AMBROSIO JR, MD:** Enhancing Ectasia Screening. *Cataract & Refractive Surgery today Europe.*, 2009;32
- 52) 343.

- 53) **Scheimpflugprinciple**.[http://en.wikipedia.org/wiki/Scheimpflug principle](http://en.wikipedia.org/wiki/Scheimpflug_principle). (Accessed on June-09-2009).
- 54) **Scroggs MW and Poria AD** (1992): Histopathological variation in keratoconus. *Cornea*.11:553.
- 55) **Sherwin T, Brookes NH and Clover GM**: Cellular incursion into Bowman's membrane in the peripheral cone of the keratoconic cornea. *Exp eye.Res.* 2002; 74:473.
- 56) **Swartz T, Marten L, Wang M**. Measuring the cornea: the latest developments in corneal topography. *Curr Opin Ophthalmol* 2007; 18:325–33.
- 57) **Sturbaum CW and Peiffer RL**: Pathology of corneal endothelium in keratoconus. *Ophthalmology*. 1993; 206:192.
- 58) **Schlegel Z, Hoang T, Gatinel D**. Comparison of and correlation between anterior and posterior corneal elevation maps in normal eyes and keratoconus-suspect eyes. *J Cataract Refract Surg* 2008; 34:789–95.
- 59) **Tsuobta K, Mashima Y and Sato N et al** (1995): Corneal epithelium in keratoconus. *Cornea*.14.77.
- 60) **Tomidokoro A, Oshika T, Amano S, et al**. Changes in anterior and posterior corneal curvatures in keratoconus. *Ophthalmology* 2000; 107:1328 –32.
- 61) **Tanabe T, Oshika T, Tomidokoro A, et al**. Standardized colorcoded scales for anterior and posterior elevation maps of scanning slit corneal topography. *Ophthalmology* 2002; 109:1298 –302.
- 62) **Tomlinson A, Schwartz C**. The position of the corneal apex in the normal eye. *Am J Optom Physiol Opt* 1979; 56:236–40.
- 63) **Twa MD ,Nichols JJ , Joslin CE , et al. (2004)** : Characteristics of corneal Ectasia after LASIK for myopia.*Cornea*.,23:447-57.
- 64) **Verges C, Cazal J**. applications of pentacam in anterior segment analysis. *Highlights of ophthalmology* 2007; 35:11.
- 65) **Wasserman D. Itzkowitz J, Kamenar T**. Corneal topographic data: its use in fitting aspheric contact lenses. *CLAO J* 1992; 18; 83-5.
- 66) **Wilson SE, Lin DTC, Klyce SD, et al**. Topographic changes in contact lens-induced corneal warpage. *Ophthalmology* 1990; 97:734–44.

- 67) **Wilson SE, Klyce SD.** Quantitative Descriptors of Corneal Topography. Arch Ophthalmol. 1991; 109: 349-53.
- 68) **Wilson SE.** Cautions regarding measurement of the posterior corneal curvature. Ophthalmology 2000; 107:1223.
- 69) **Zadnik-K :** The ocular examination, measures and findings. Philadelphia: W.B. Saunders. ISPN. 1997; 3:7216.
- 70) **Zhou L, Yue BY and Twining SS et al:** Expression of wound healing and stress-related proteins in keratoconus corneas. Current eye. 1996; 15:1124.