

6. Literaturverzeichnis

1. Aghaian E, Choe JE, Lin S, Stamper RL. Central corneal thickness of caucasians, chinese, hispanics, filipinos, african americans, and japanese in a glaucoma clinic. *Ophthalmology* 2004; 111:2211-2219
2. Aitken D, Beirouty ZA, Lee WR. Ultrastructural study of the corneal epithelium in recurrent erosion syndrome. *Br J Ophthalmol* 1995; 79:282-289
3. Allemann N, Chamon W, Silvermann RH, Azar DT, Reinstein DZ, Stark WJ, Coleman J. High-frequency ultrasound quantitative analyses of corneal scarring following excimer laser keratectomy. *Arch Ophthalmology*. 1993; 111:968-973
4. American Academy of Ophthalmology. Excimer laser photorefractive keratectomy (PRK) for myopia and astigmatism. *Ophthalmology* 1999; 106:422-437
5. Amm M, Wetzel W, Winter M, Uthoff D, Duncker GIW. Histopathological comparison of photorefractive keratectomy and laser in situ keratomileusis in rabbits. *J Refract Surg* 1996; 12:758-766
6. Amm M, Duncker GI. Refractive changes after phototherapeutic keratectomy. *J Cataract Refract Surg* 1997; 23:839-844
7. Amoils SP, Deist MB, Gous P, Amoils PM. Iatrogenic keratectasia after laser in situ keratomileusis for less than -4.0 to -7.0 diopters of myopia. *J Cataract Refract Surg* 2000; 26:967-977
8. Anderson NJ, Edelhauser HF, Sharara N, Thompson KP, Rubinfeld RS, Devaney DM, L'Hernault N, Grossniklaus HE. Histologic and ultrastructural findings in human corneas after successful laser in situ keratomileusis. *Arch Ophthalmol* 2002; 120:288-293
9. Anschutz T, Pieger S. Correlation of laser profilometry scans with clinical results. *J Refract Surg* 1999; 15(Suppl 2):S252-S256
10. Argento C, Cosentino MJ, Tytium A, Rapetti G, Zarate J. Corneal ectasia after laser in situ keratomileusis. *J Cataract Refract Surg* 2001; 27:1440-1448
11. Asiy-Vogel MN, Brinkmann R, Notbohm H, Eggers R, Lubatschowski H, Laqua H, Vogel A. Histologic analysis of thermal effects of laser thermokeratoplasty and corneal ablations using Sirius-red polarisization microscopy. *J Cataract Refract Surg* 1997; 23:515-526

12. Azen SP, Burg KA, Smith RE, Maguen E. A comparison of three methods for the measurement of corneal thickness. *Invest Ophthalmol Vis Sci* 1979; 18:535-538
13. Bachmann W, Jean B, Bende T, Seiler T, Hibst R, Thiel HJ. Silicon cast method for quantification of photoablation. *J Refract Surg* 1992; 8:363-367
14. Bahr G. Measurement of the effect of solutions of different osmotic pressure on the thickness of the living cornea. *Trans Ophthalmol Soc UK* 1948; 68:515-524
15. Baikoff G, Lutun E, Ferraz C, Wei J. Static and dynamic analysis fo the anterior segment with optical coherence tomography. *J Cataract Refract Surg* 2004; 30:1843-1850
16. Baumgartner A, Hitzenberger CK, Ergun E, Stur M, Sattmann H, Drexler W, Fercher AF. Resolution-improved dual-beam and standard optical coherence tomography: a comparison. *Graefe's Arch Clin Exp Ophthalmol* 2000; 238:385-392
17. Bechmann M, Thiel MJ, Neubauer AS, Ullrich S, Ludwig K, Kenyon KR, Ulbig MW. Central corneal thickness measurement with a retinal optical coherence tomography device versus standard ultrasonic pachymetry. *Cornea* 2001; 20:50-54
18. Behrens A, Langenbacher A, Kus MM, Rummelt C, Seitz B. Experimental evaluation of two current-generation automated microkeratomes: the hansatome and the supratome. *Am J Ophthalmol* 2000; 129:59-67
19. Bende T, Seiler T, Wollensak J. Side effects in excimer corneal surgery – Corneal thermal gradients. *Graefe's Arch Clin Exp Ophthalmol* 1988; 226:277-280
20. Binder PS, Bosem M, Weinreb RN. Scheimpflug anterior segment photography assessment of wound healing after myopic excimer laser photorefractive keratectomy. *J Cataract Refract Surg* 1996; 22:205-212
21. Birngruber R. Optische Kohärenztomographie. In: Guthoff R, Pauleikhoff D, Hingst V (Hrsg) *Bildgebende Diagnostik in der Augenheilkunde*. Enke, Stuttgart. 1999; S. 29-36
22. Bland JM, Altman DG. Statistical methods for assessing agreement between two methods of clinical measurement. *Lancet* 1986; 1:307-310
23. Böhnke M, Chavanne P, Gianotti R, Salathé RP. High-precision, high-speed measurement of excimer laser keratectomies with a new optical pachymeter. *Ger J Ophthalmol* 1997; 5:338-342

24. Böhnke M, Chavanne P, Gianotti R, Salathé RP. Continuous non-contact corneal pachymetry with a high speed reflectometer. *J Refract Surg* 1998;14:140-146
25. Böhnke M, Masters BR, Wälti R, Ballif JJ, Chavanne P, Gianotti R, Salathé RP. Precision and reproducibility of measurements of human corneal thickness with rapid optical low-coherence reflectometry (OLCR). *J Biomed Opt* 1999a; 4:152-156
26. Böhnke M, Wälti R, Salathé RP. Präzise Messung von Schichtdicken während der photorefraktiven Keratektomie. In: Duncker G, Ohrloff C, Wilhelm F (Hrsg) 12. Kongreß der Deutschsprachigen Gesellschaft für Intraokularlinsen-Implantation. Springer, Berlin. 1999b; S. 525-530.
27. Böhnke M, Widmer S, Walti R. Real-time pachymetry during photorefractive keratectomy using optical low-coherence reflectometry. *J Biomed Opt* 2001; 6:412-417
28. Bolton C, Herman W. Corneal thickness changes during ultrasound pachymetry for radial keratotomy. *J Refract Surg* 1986; 2:221-222
29. Bourassa S, Benjamin W, Boltz R. Effect of humidity on the deswelling function of the human cornea. *Curr Eye Res* 1991; 10:493-500
30. Bovelie R, Kaufmann SC, Thompson HW, Hamano H. Corneal thickness measurements with the Topcon SP-2000P specular microscope and an ultrasound pachymeter. *Arch Ophthalmol* 1999; 117:868-870
31. Braunstein RE, Jain S, McCally RL, Stark WJ, Connolly PJ, Azar DT. Objective measurement of corneal light scattering after excimer laser keratectomy. *Ophthalmology* 1996; 103:439-443
32. Bron AJ. The architecture of the corneal stroma (editorial). *Br J Ophthalmol* 2001; 85:379-381
33. Cairns G, McGhee CNJ. Orbscan computerized topography: Attributes, applications, and limitations. *J Cataract Refract Surg* 2005; 31:205-220
34. Campos M, Nielsen S, Szerenyi K, Garbus JJ, Mc Donnell PJ. Clinical follow-up of phototherapeutic keratectomy for treatment of corneal opacities. *Am J Ophthalmol* 1993; 115; 433-440

35. Casebeer JC, Slade SG, Dybbs A, Mahanti RL. Intraoperative pachometry during automated lamellar keratoplasty: A preliminary report. *J Refract Surg* 1994; 10:41-43
36. Cavanaugh TB, Lind DM, Cutarelli PE, Mack RJS, Durrie DS, Hassanein KM, Graham CE. Phototherapeutic keratectomy for recurrent erosion syndrome in anterior basement membrane dystrophy. *Ophthalmology* 1999; 106:971-976
37. Chang A, Tsang AC, Contreras JE, Huynh PD, Calvano CJ, Crnic-Rein TC, Thall EH. Corneal tissue ablation depth and the Munnerlyn formula. *J Cataract Refract Surg* 2003; 29:1204-1210
38. Chauhan DS, Marshall J. The interpretation of optical coherence tomography images of the retina. *Invest Ophthalmol Vis Sci* 1999; 40:2332-2342
39. Chen WL, Shih YF, Liao SL, Hu FR, Hung PT. Ultrasound biomicroscopic findings in rabbit eyes undergoing scleral suction during lamellar refractive surgery. *Invest Ophthalmol Vis Sci* 2002; 43:3665-3672
40. Cherny M, Stasiuk R, Kelly P, Lee S, Golembo G, Taylor H. Computerised Scheimpflug densitometry as a measure of corneal opacification following excimer laser surgery. *Ophthalmic Res* 1994; 26 (Suppl 1):48-54
41. Chivers RC, Round WH, Zieniuk JK. Investigation of ultrasound axially traversing the human eye. *Ultrasound Med Biol* 1984; 10:173-188
42. Choma MA, Sarunic MV, Yang C, Izatt JA. Sensitivity advantage of swept source and fourier domain optical coherence tomography. *Opt Exp* 2003; 11:2183-2189
43. Cochener B, Savary-LeFloch G, Colin J. Effect of intrastromal ring segment shift on clinical outcome: one year results for low myopia. *J Cataract Refract Surg* 2000; 26:978-986
44. Coleman DJ, Lizzi FL, Jack RL. *Ultrasonography of the eye and orbit*. Lea and Febiger, Philadelphia. 1977; S. 113-114
45. Coleman DJ, Silverman RH, Chabi A, Rondeau MJ, Shung KK, Cannata J, Lincoff H. High-resolution ultrasonic imaging of the posterior segment. *Ophthalmology* 2004; 111:1344-1351
46. Colin J, Cochener B, Savary-LeFloch G, Malet F. Correcting keratoconus with intracorneal rings. *J Cataract Refract Surg* 2000; 26:1117-1122

47. Comaish IF, Lawless MA. Progressive post-LASIK keratectasia – biomechanical instability or chronic disease process? *J Cataract Refract Surg* 2002; 28:2206-2213
48. Dausch D, Landes M, Klein R, Schröder E. Phototherapeutic keratectomy in recurrent corneal epithelial erosion. *J Refract Surg* 1993; 9:419-424
49. Dayanir V, Sakarya R, Özcura F, Kir E, Aktunc T, Özkan BS, Okyay P. Effect of corneal drying on central corneal thickness. *J Glaucoma* 2004; 13:6-8
50. Doughty MJ, Zaman ML. Human corneal thickness and its impact on intraocular pressure measures: a review and meta-analysis approach. *Surv Ophthalmol* 2000; 44:367-408
51. Drexler W, Baumgartner A, Findl O, Hitzenberger CK, Sattmann H, Fercher AF. Submicrometer precision biometry of the anterior segment of the human eye. *Invest Ophthalmol Vis Sci* 1997; 38:1304-1313
52. Drexler W, Hitzenberger CK, Baumgartner A, Findl O, Sattmann H, Fercher AF. Investigation of dispersion effects in ocular media by multiple wavelength partial coherence interferometry. *Exp Eye Res* 1998; 66:25-33
53. Drexler W, Morgner U, Ghanta RK, Kärtner FX, Schuman JS, Fujimoto JG. Ultrahigh-resolution ophthalmic optical coherence tomography. *Nature Med* 2001; 7:502-507
54. Drexler W, Sattmann H, Hermann B, Ko TH, Stur M, Unterhuber A, Scholda C, Findl O, Wirtitsch M, Fujimoto JG, Fercher AF. Enhanced visualization of macular pathology with the use of ultrahigh-resolution optical coherence tomography. *Arch Ophthalmol* 2003; 121:695-706
55. Drexler W. Methodische Weiterentwicklungen – Hochauflösende OCT. *Ophthalmologie* 2004; 101:804-812
56. Durairaj VD, Balentine J, Kouyoundijan G, Tooze JA, Young D, Spivack L, Taravella MJ. The predictability of corneal flap thickness and tissue laser ablation in laser in situ keratomileusis. *Ophthalmology* 2000; 107:2140-2143
57. Ediger MN, Pettit GH, Weiblinger RP. Noninvasive monitoring of excimer laser ablation by time-resolved reflectometry. *J Refract Surg* 1993; 9:268-275
58. Ehlers N. Some comparative studies on the mammalian corneal epithelium. *Acta Ophthalmol* 1970; 48:821-828

59. Erie JC, Patel SV, McLaren JW, Ramirez M, Hodge DO, Maguire LJ, Bourne WM. Effect of myopic laser in situ keratomileusis on epithelial and stromal thickness - A confocal microscopy study. *Ophthalmology* 2002; 109:1447-1452
60. Feng Y, Varikooty J, Simpson TL. Diurnal variation of corneal and epithelial thickness measured using optical coherence tomography. *Cornea* 2001; 20:480-483
61. Fercher AF, Mengedocht K, Werner W. Eye-length measurement by interferometry with partially coherent light. *Opt Lett* 1988; 13:1867-1869
62. Fercher AF, Hitzengerger CK, Drexler W, Kamp G, Sattmann H. In vivo optical coherence tomography. *Am J Ophthalmol* 1993; 116:113-114
63. Fisher BT, Masiello KA, Goldstein MH, Hahn DW. Assessment of transient changes in corneal hydration using confocal Raman spectroscopy. *Cornea* 2003; 22:363-370
64. Flanagan G, Binder PS. Estimating residual stromal thickness before and after laser in situ keratomileusis. *J Cataract Refract Surg* 2003; 29:1674-1683
65. Förster W, Atzler U, Ratkay I, Busse H. Therapeutic use of the 193-nm excimer laser in corneal pathologies. *Graefe's Arch Clin Exp Ophthalmol* 1997; 235:296-305
66. Freund DE, McCally RL, Farrell RA, Cristol SM, L'Hernault NL, Edelhauser HF. Ultrastructure in anterior and posterior stroma of perfused human and rabbit corneas. *Invest Ophthalmol Vis Sci* 1995; 36:1508-1523
67. Fujimoto JG, Brezinski ME, Tearney GJ, Boppart SA, Bouma B, Hee MR, Southern JF, Swanson EA. Optical biopsy and imaging using optical coherence tomography. *Nature Med* 1995; 1:970-972
68. Funk RHW, Apple DJ, Naumann GOH. Embryologie, Anatomie und Untersuchungstechnik. In: Naumann GOH (Hrsg) *Pathologie des Auges*. Springer, Berlin. 1997; S. 24-28
69. Gatinel D, Malet J, Hoang-Xuan T, Azar DT. Analysis of customized corneal ablations: Theoretical limitations of increasing negative asphericity. *Invest Ophthalmol Vis Sci* 2002; 43:941-948
70. Gaudric A, Haouchine B, Massin P, Paques M, Blain P, Erginay A. Macular hole formation – New data provided by optical coherence tomography. *Arch Ophthalmol* 1999; 117:744-751

71. Gauthier CA, Holden BA, Epstein D, Tengroth B, Fagerholm P, Hamberg-Nyström H. Role of epithelial hyperplasia in regression following photorefractive keratectomy. *Br J Ophthalmology* 1996; 80:545-548
72. Geggel HS, Talley AR. Delayed onset keratectasia following laser in situ keratomileusis. *J Cataract Refract Surg* 1999; 25:582-586
73. Genth U, Mrochen M, Wälti R, Salaheldine MM, Seiler T. Optical low coherence reflectometry for noncontact measurements of flap thickness during laser in situ keratomileusis. *Ophthalmology* 2002; 109:973-978
74. Giasson C, Forthomme D. Comparison of central corneal thickness measurements between optical and ultrasound pachometers. *Optom Vis Sci* 1992; 69:236-241
75. Giledi O, Mulhern MG, Espinosa M, Kerr A, Daya SM. Reproducibility of LASIK flap thickness using the Hansatome microkeratome. *J Cataract Refract Surg* 2004; 30:1031-1037
76. Gokmen F, Jester JV, Petroll M, McCulley JP, Cavanagh HD. In vivo confocal microscopy through-focussing to measure corneal flap thickness after laser in situ keratomileusis. *J Cataract Refract Surg* 2002; 28:962-970
77. Gottsch JD, Rencs EV, Cambier JL, Hall D, Azar DT, Stark WJ. Excimer laser calibration system. *J Refract Surg* 1996; 12:401-411
78. Grieve K, Paques M, Dubois A, Sahel J, Boccara C, Le Gargasson JF. Ocular tissue imaging using ultrahigh-resolution, full-field optical coherence tomography. *Invest Ophthalmol Vis Sci* 2004; 45:4126-4131
79. Gurses-Ozden R, Ishikawa H, Hoh ST, Liebmann JM, Mistlberger A, Greenfield DS, Dou HL, Ritch R. Increasing sampling density improves reproducibility of optical coherence tomography measurements. *J Glaucoma* 1999; 8:238-241
80. Guthoff R. Confocal microscopy. *Ger J Ophthalmol* 1997; 5:495
81. Guthoff R, Pauleikhoff D, Hingst V. *Bildgebende Diagnostik in der Augenheilkunde*. Enke, Stuttgart. 1999

82. Hamill MB, Kohnen T. Scanning electron microscopic evaluation of the surface characteristics of 4 microkeratome systems in human corneas. *J Cataract Refract Surg* 2002; 28:328-336
83. Hartmann C, Rieck PW. Der intrastromale korneale Ring (ISR) zur Myopiekorrektur: Experimentelle und klinische Ergebnisse. In: Seiler T (Hrsg) *Refraktive Chirurgie der Hornhaut*. Enke, Stuttgart. 2000; S. 253-261
84. Hee MR, Izatt JA, Swanson EA, Huang D, Shuman JS, Lin CP, Puliafito CA, Fujimoto JG. Optical coherence tomography of the human retina. *Arch Ophthalmol* 1995; 113:325-332
85. Hee MR, Puliafito CA, Duker JS, Reichel E, Coker JG, Wilkins JR, Schuman JS, Swanson EA, Fujimoto JG. Topography of diabetic macular edema with optical coherence tomography. *Ophthalmology* 1998; 105:360-370
86. Herndon LW, Choudri SA, Cox T, Damji KF, Shields MB, Allingham RR. Central corneal thickness in normal, glaucomatous, and ocular hypertensive eyes. *Arch Ophthalmol* 1997; 115:1137-1141
87. Herndon LW, Weizer JS, Stinnett SS. Central corneal thickness as a risk factor for advanced glaucoma damage. *Arch Ophthalmol* 2004; 122:17-21
88. Herse P, Siu A. Short-term effects of proparacaine on human corneal thickness. *Acta Ophthalmol* 1992; 70:740-744
89. Hersh PS, Burnstein Y, Carr J, Etwaru G, Mayers M. Excimer laser phototherapeutic keratectomy. Surgical strategies and clinical outcome. *Ophthalmology* 1996; 103:1210-1222
90. Hirano K, Ito Y, Suzuki T, Kojima T, Kachi S, Miyake Y. Optical coherence tomography for the noninvasive evaluation of the cornea. *Cornea* 2001; 20:281-289
91. Hitzenberger CK. Measurement of corneal thickness by low-coherence interferometry. *Appl Optics* 1992; 31:6637-6642
92. Hitzenberger CK, Baumgartner A, Drexler W, Fercher AF. Interferometric measurement of corneal thickness with micrometer precision. *Am J Ophthalmol* 1994; 118:468-476

93. Hoerauf H, Wirbelauer C, Scholz C, Engelhardt R, Koch P, Birngruber R, Laqua H. Slitlamp-adapted optical coherence tomography of the anterior segment. *Graefe's Arch Clin Exp Ophthalmol* 2000a;238:8-18
94. Hoerauf H, Gordes R, Scholz C, Wirbelauer C, Koch P, Engelhardt R, Winkler J, Laqua H, Birngruber R. First experimental and clinical results with transscleral optical coherence tomography. *Ophthalmic Surg Lasers* 2000b; 31:218-222
95. Hoerauf H, Winkler J, Scholz C, Wirbelauer C, Gordes RS, Koch P, Engelhardt R, Laqua H, Birngruber R. Transscleral optical coherence tomography – An experimental study in ex-vivo human eyes. *Lasers Surg Med* 2002; 30:209-215
96. Holbach LM, Hinzpeter EN, Naumann GOH. Kornea und Sklera. In: Naumann GOH (Hrsg) *Pathologie des Auges*. Springer, Berlin. 1997; S. 527-529
97. Holden BA, Mertz GW, McNally JJ. Corneal swelling response to contact lenses worn under extended wear conditions. *Invest Ophthalmol Vis Sci* 1983; 24:218-226
98. Holland SP, Srivannaboon S, Reinstein DZ. Avoiding serious corneal complications of laser assisted in situ keratomileusis and photorefractive keratectomy. *Ophthalmology* 2000; 107:640-652
99. Hosseini K, Kholodnykh AI, Petrova IY, Esenaliev RO, Hendrikse F, Motamedi M. Monitoring of rabbit cornea response to dehydration stress by optical coherence tomography. *Invest Ophthalmol Vis Sci* 2004; 45:2555-2562
100. Huang D, Swanson EA, Lin CP, Schuman JS, Stinson WG, Chang W, Hee MR, Flotte T, Gregory K, Puliafito CA, Fujimoto JG. Optical coherence tomography. *Science* 1991; 254:1178-1181
101. Huang D, Wang I, Lin CP, Puliafito CA, Fujimoto JG. Micron-resolution ranging of cornea anterior chamber by optical reflectometry. *Lasers Surg Med* 1991;11:419-425
102. Huang Y, Cideciyan AV, Papastergiou GI, Banin E, Semple-Rowland SL, Milam AH, Jacobson SG. Relation of optical coherence tomography to microanatomy in normal and rd chickens. *Invest Ophthalmol Vis Sci* 1998; 39:2405-2416

103. Huebscher HJ, Genth U, Seiler T. Determination of excimer laser ablation rate of the human cornea using in vivo Scheimpflug videography. *Invest Ophthalmol Vis Sci* 1996; 37:42-46
104. Hugger P, Kohnen T, La Rosa FA, Holladay JT, Koch DD. Comparison of changes in manifest refraction and corneal power after photorefractive keratectomy. *Am J Ophthalmol* 2000; 129:68-75
105. Imamura A, Amano S, Oshika T. Corneal bed perforation by laser ablation during laser in situ keratomileusis. *J Cataract Refract Surg* 2003; 29:1638-1640
106. Iwadare T, Mori H, Ishiguro K, Takeishi M. Dimensional changes of tissues in the course of processing. *J Microsc* 1984; 136:323-327
107. Izatt JA, Hee MR, Swanson EA, Lin CP, Huang D, Schuman JS, Puliafito CA, Fujimoto JG. Micrometer-scale resolution imaging of the anterior eye in vivo with optical coherence tomography. *Arch Ophthalmol* 1994;112:1584-1589
108. Jabbur NS, Stark WJ, Green WR. Corneal ectasia after laser-assisted in situ keratomileusis. *Arch Ophthalmol* 2001; 119:1714-1716
109. Javaloy J, Vidal MT, Quinto A, De Rojas V, Alió JL. Quality assessment model of 3 different microkeratomes through confocal microscopy. *J Cataract Refract Surg* 2004; 30:1300-1309
110. Joo C, Kim T. Corneal perforation during laser in situ keratomileusis. *J Cataract Refract Surg* 1999; 25:1165-1167
111. Joo CK, Kim TG. Corneal ectasia after laser in situ keratomileusis for correction of less than -12 diopters of myopia. *J Cataract Refract Surg* 2000; 26:292-295
112. Kaufman SC, Musch DC, Belin MW, Cohen EJ, Meisler DM, Reinhart WJ, Udell IJ, Van Meter WS. Confocal microscopy. A report by the American Academy of Ophthalmology. *Ophthalmology* 2004; 111:396-406
113. Karandish A, Wirbelauer C, Häberle H, Pham DT. Reproduzierbarkeit der Goniometrie mittels spaltlampen-adaptierter optischer Kohärenztomographie. *Ophthalmologe* 2004; 101:608-613

114. Kasetsuwan N, Pangilinan RT, Moreira LL, DiMartino DS, Shah SS, Schallhorn SC, McDonnell PJ. Real time intraocular pressure and lamellar corneal flap thickness. *Cornea* 2001; 20:41-44
115. Kezirian GM, Stonecipher KG. Comparison of IntraLase femtosecond laser and mechanical keratomes for laser in situ keratomileusis. *J Cataract Refract Surg* 2004; 30:804-811
116. Kim WS, Jo JM. Corneal hydration affects ablation during laser in situ keratomileusis surgery. *Cornea* 2001; 20:394-397
117. Kim YL, Walsh JT, Goldsitch TK, Glucksberg MR. Variation of corneal refractive index with hydration. *Phys Med Biol* 2004; 49:859-868
118. Kirchoff A, Stachs O, Guthoff R. Three-dimensional ultrasound findings of the posterior iris region. *Graefe's Arch Clin Exp Ophthalmol* 2001; 239:968-971
119. Klyce S, Beuerman R. Structure and function of the cornea. In: Kaufman HE, Barron BA, McDonald MB (Hrsg) *The Cornea* (2nd Edition). Butterworth-Heinemann, Boston. 1997; S. 3-50
120. Ko TH, Fujimoto JG, Duker JS, Paunesu LA, Drexler W, Baumal C, Puliafito CA, Reichel E, Rogers AH, Schuman JS. Comparison of ultrahigh- and standard-resolution optical coherence tomography for imaging macular hole pathology and repair. *Ophthalmology* 2004; 111:2033-2043
121. Kohnen T. Need for intraoperative measurement of corneal thickness during LASIK. *J Cataract Refract Surg* 2000; 26:1695-1696
122. Kohnen T. Iatrogenic keratectasia: current knowledge, current measurements. *J Cataract Refract Surg* 2002; 28:2065-2066
123. Kohnen T, Terzi E, Mirshahi A, Bühren J. Intraindividual comparison of epithelial defects during laser in situ keratomileusis using standard and zero-compression Hansatome microkeratome heads. *J Cataract Refract Surg* 2004; 30:123-126
124. Komai Y, Ushiki T. The three-dimensional organization of collagen fibrils in the human cornea and sclera. *Invest Ophthalmol Vis Sci* 1991; 32:2244-2258

125. Koop N, Brinkmann R, Lankenau E, Flache S, Engelhardt R, Birngruber R. Optische Kohärenztomographie der Kornea und des vorderen Augenabschnitts. *Ophthalmologie* 1997;94:481-486
126. Kremer FB, Walton P, Gensheimer G. Determination of corneal thickness using ultrasonic pachometry. *Ann Ophthalmol* 1985; 17:506-507
127. Krueger RR, Trokel SL. Quantitation of corneal ablation by ultraviolet laser light. *Arch Ophthalmol* 1985; 103:1741-1742
128. Kubota T, Seitz B, Kazuaki T, Naumann GOH. Lamellar excimer laser keratoplasty: reproducible photoablation of corneal tissue. *Doc Ophthalmol* 1992; 82:193-200
129. Larsson LI, Bourne WM, Pach JM, Brubaker RF. Structure and function of the corneal endothelium in diabetes mellitus type I and type II. *Arch Ophthalmol* 1996; 114:9-14
130. Lattimore MR, Kaupp S, Schallborn S, Lewis R. Orbscan pachymetry - Implications of a repeated measures and diurnal variation analysis. *Ophthalmology* 1999; 106:977-981
131. Lee DH, Seo S, Jeong KW, Shin SC, Vukich JA. Early spatial changes in the posterior corneal surface after laser in situ keratomileusis. *J Cataract Refract Surg* 2003; 29:778-784
132. Lemp MA, Dilly PN, Boyde A. Tandem-scanning (confocal) microscopy of the full-thickness cornea. *Cornea* 1986; 4:205-209
133. Li HF, Petroll WM, Moller-Pedersen T, Maurer JK, Cavanagh HD, Jester JV. Epithelial and corneal thickness measurements by in vivo confocal microscopy through focussing (CMTF). *Curr Eye Res* 1997; 16:214-221
134. Li Q, Timmers AM, Hunter K, Gonzalez-Pola C, Lewein AS, Reitze DH, Hauswirth WW. Noninvasive imaging by optical coherence tomography to monitor retinal degeneration in the mouse. *Invest Ophthalmol Vis Sci* 2001; 42:2981-2989
135. Lin RC, Shure MA, Rollins AM, Izatt JA, Huang D. Group index of the human cornea at 1.3- μm wavelength obtained in vitro by optical coherence domain reflectometry. *Opt Lett* 2004; 29:83-85
136. Liu Z, Huang AJ, Pflugfelder SC. Evaluation of corneal thickness and topography in normal eyes using the Orbscan corneal topography system. *Br J Ophthalmol* 1999; 83:774-778

137. Lohmann C, Timberlake GT, Fitzke FW, Gartry DS, Kerr Muir MG, Marshall J. Corneal light scattering after excimer laser photorefractive keratectomy: the objective measurement of haze. *J Refract Surg* 1992; 8:114-121
138. Lohmann CP, Reischl U, Marshall J. Regression and epithelial hyperplasia after myopic photorefractive keratectomy in a human cornea. *J Cataract Refract Surg* 1999; 25:712-715
139. Maldonado MJ, Arnau V, Navea A, Martínez-Costa R, Mico FM, Cisneros AL, Menezo JL. Direct objective quantification of corneal haze after excimer laser photorefractive keratectomy for high myopia. *Ophthalmology* 1996; 103:1970-1978
140. Maldonado MJ, Ruiz-Oblitas L, Munuera JM, Aliseda D, García-Layana A, Moreno-Montanés J. Optical coherence tomography evaluation of the corneal cap and stromal bed features after laser in situ keratomileusis for high myopia and astigmatism. *Ophthalmology* 2000; 107:81-88
141. Mandell R, Fatt I. Thinning in the human cornea on awakening. *Nature* 1965; 208:292
142. Mandell RB. Corneal power correction factor for photorefractive keratectomy. *J Refract Surg* 1994; 10:125-128
143. Marshall J, Trokel SL, Rothery S, Krueger RR. Long-term healing of the central cornea after photorefractive keratectomy using an excimer laser. *Ophthalmology* 1988; 95:1411-1421
144. Maurice DM, Giardini AA. A simple optical apparatus for measuring the corneal thickness and the average thickness of the human cornea. *Br J Ophthalmol* 1951; 35:169-177
145. Maurice DM. The structure and transparency of the cornea. *J Physiol* 1957; 136:263-268
146. McDonnell PJ, Enger C, Stark WJ, Stulting RD. Corneal thickness changes after high-risk penetrating keratoplasty. *Arch Ophthalmol* 1993; 111:1374-1381
147. McDonnell PJ, Taban M, Sarayba M, Rao B, Zhang J, Schiffman R, Chen Z. Dynamic morphology of clear corneal cataract incisions. *Ophthalmology* 2003; 110:2342-2348
148. Melki SA, Azar DT. LASIK complications: etiology, management and prevention. *Surv Ophthalmol* 2001; 46:95-116

149. Miranda D, Smith SD, Krueger RR. Comparison of flap thickness reproducibility using microkeratomes with a second motor for advancement. *Ophthalmology* 2003; 110:1931-1934
150. Miyata K, Tokunaga T, Nakahara M, Ohtani S, Nejima R, Kiuchi T, Kaji Y, Oshika T. Residual bed thickness and corneal forward shift after laser in situ keratomileusis. *J Cataract Refract Surg* 2004; 30:1067-1072
151. Módis L, Langenbacher A, Seitz B. Scanning-slit and specular microscopic pachymetry in comparison with ultrasonic determination of corneal thickness. *Cornea* 2001a; 20:711-714
152. Módis L, Langenbacher A, Seitz B. Corneal thickness measurements with contact and noncontact specular microscopic and ultrasonic pachymetry. *Am J Ophthalmol* 2001b; 132:517-521
153. Módis L, Langenbacher A, Seitz B. Corneal endothelial cell density and pachymetry measured by contact and noncontact specular microscopy. *J Cataract Refract Surg* 2002; 28:1763-1769
154. Møller-Pedersen T, Vogel M, Li HF, Petroll WM, Cavanagh HD, Jester JV. Quantification of stromal thinning, epithelial thickness, and corneal haze after photorefractive keratectomy using in vivo confocal microscopy. *Ophthalmology* 1997; 104:360-368
155. Møller-Pedersen T, Cavanagh HD, Petroll WM, Jester JV. Stromal wound healing explains refractive instability and haze development after photorefractive keratectomy - a 1-year confocal microscopic study. *Ophthalmology* 2000; 107:1235-1245
156. Muallem MS, Yoo SH, Romano AC, Schiffman JC, Culbertson WW. Corneal flap thickness in laser in situ keratomileusis using the Moria M2 microkeratome. *J Cataract Refract Surg* 2004; 30:1902-1908
157. Muallem MS, Yoo SH, Romano AC, Marangon FB, Schiffman JC, Culbertson WW. Flap and residual bed thickness in laser in situ keratomileusis enhancement. *J Cataract Refract Surg* 2004; 30:2295-2302
158. Müller LJ, Pels E, Vrensen GFJM. The specific architecture of the anterior stroma accounts for maintenances of corneal curvature. *Br J Ophthalmol* 2001; 85:437-443

159. Müller W, Brandt HP. Spaltlampenfotografie der vorderen Augenabschnitte. VEB Georg Thieme, Leipzig. 1976
160. Munnerlyn CR, Koons SL, Marshall J. Photorefractive keratectomy: a technique for laser refractive surgery. *J Cataract Refract Surg* 1988; 14:46-52
161. Muscat S, McKay N, Parks S, Kemp E, Keating D. Repeatability and reproducibility of corneal thickness measurements by optical coherence tomography. *Invest Ophthalmol Vis Sci* 2002; 43:1791-1795
162. Nischal KK, Naor J, Jay V, Mac Keen LD, Rootman DS. Clinicopathological correlation of congenital corneal opacification using ultrasound biomicroscopy. *Br J Ophthalmol* 2002; 86:62-69
163. O'Brart DPS, Kerr Muir MG, Marshall J. Phototherapeutic keratectomy for recurrent corneal erosions. *Eye* 1994; 8:378-383
164. O'Neal M, Polse K. In vivo assessment of mechanisms controlling corneal hydration. *Invest Ophthalmol Vis Sci* 1985; 26:849-856
165. Olsen T, Nielsen CB, Ehlers N. On the optical measurement of corneal thickness. I. Optical principle and sources of error. *Acta Ophthalmol* 1980; 58:760-766
166. Olsen T. Light scattering from the human cornea. *Invest Ophthalmol Vis Sci* 1982; 23:81-86
167. Pallikaris I, Ginis H, Kounis G, Anglos D, Papazoglou T, Naoumidis L. Corneal hydration monitored by laser-induced breakdown spectroscopy. *J Refract Surg* 1998; 14:655-660
168. Pallikaris IG, Kymionis GD, Astyrakakis NI. Corneal ectasia induced by laser in situ keratomileusis. *J Cataract Refract Surg* 2001; 27:1796-1802
169. Park CK, Kim JH. Comparison of wound healing after photorefractive keratectomy and laser in situ keratomileusis in rabbits. *J Cataract Refract Surg* 1999; 25:842-850
170. Patel S, Marshall J, Fitzke FW. Refractive index of the human corneal epithelium and stroma. *J Refract Surg* 1995; 11:100-105
171. Patel SV, McLaren JW, Camp JJ, Nelson LR, Bourne WM. Automated quantification of keratocyte density by using confocal microscopy in vivo. *Invest Ophthalmol Vis Sci* 1999; 40:320-326

172. Patel S, Alió JL, Pérez-Santonja J. A model to explain the difference between changes in refraction and central ocular surface power after laser in situ keratomileusis. *J Refract Surg* 2000; 16:330-335
173. Pavlin CJ, Harasiewicz K, Foster FS. Ultrasound biomicroscopic assessment of the cornea following excimer laser photokeratectomy. *J Cataract Refract Surg* 1994; 20:206-211
174. Pérez-Santonja JJ, Bellot J, Claramonte P, Ismail MM, Alió JL. Laser in situ keratomileusis to correct high myopia. *J Cataract Refract Surg* 1997; 23:372-385
175. Pérez-Santonja JJ, Ayala MJ, Sakla HF, Ruíz-Moreno JM, Alió J. Retreatment after laser in situ keratomileusis. *Ophthalmology* 1999; 106:21-28
176. Petroll WM, Cavanagh HD, Jester JV. Clinical confocal microscopy. *Curr Opin Ophthalmol* 1998; 9:59-65
177. Philipp WE, Speicher L, Göttinger W. Histological and immunohistochemical findings after laser in situ keratomileusis in human corneas. *J Cataract Refract Surg* 2003; 29:808-820
178. Pisella PJ, Auzeurie O, Bokobza Y, Debbasch C, Baudoin C. Evaluation of corneal stromal changes in vivo after laser in situ keratomileusis with confocal microscopy. *Ophthalmology* 2001; 108:1744-1750
179. Podoleanu A, Charalambous I, Plesea L, Dogariu A, Rosen R. Correction of distortions in optical coherence tomography imaging of the eye. *Phy Med Biol* 2004; 49:1277-1294
180. Price FW, Koller DL, Price MO. Central corneal pachymetry in patients undergoing laser in situ keratomileusis. *Ophthalmology* 1999; 106:2216-2220
181. Probst LE, Machat JJ. Mathematics of laser in situ keratomileusis for high myopia. *J Cataract Refract Surg* 1998; 24:190-195
182. Prydal JI, Artal P, Woon H, Campbell FW. Study of human precorneal tear film thickness and structure using laser interferometry. *Curr Opin Ophthalmol* 1992; 33:2006-2011
183. Prydal JI, Muir MGK, Dilly PN, Corbett MC, Verma S, Marshall J. Confocal microscopy using oblique sections for measurement of corneal epithelial thickness in conscious humans. *Acta Ophthalmol Scand* 1997; 75:624-628

184. Puliafito CA, Stern D, Krueger RR, Mandel ER. High-speed photography of excimer laser ablation of the cornea. *Arch Ophthalmol* 1987; 105:1255-1259
185. Puliafito CA, Hee MR, Lin CP, Reichel E, Schuman JS, Duker JS, Izatt JA, Swanson EA, Fujimoto JG. Imaging of macular diseases with optical coherence tomography. *Ophthalmology* 1995; 102:217-219
186. Puliafito CA, Hee MR, Schuman JS, Fujimoto JG. Optical coherence tomography of ocular diseases. Slack Incorporated, Thorofare. 1996
187. Radhakrishnan S, Rollins AM, Roth JE, Yazdanfar S, Westphal V, Bardenstein DS, Izatt JA. Real-time optical coherence tomography of the anterior segment at 1310 nm. *Arch Ophthalmol* 2001; 119:1179-1185
188. Rainer G, Petternel V, Findl O, Schmetterer L, Skorpik C, Luksch A, Drexler W. Comparison of ultrasound pachymetry and partial coherence interferometry in the measurement of central corneal thickness. *J Cataract Refract Surg*. 2002; 28:2142-2145
189. Rainer G, Findl O, Petternel V, Kiss B, Drexler W, Skorpik C, Georgopoulos M, Schmetterer L. Central corneal thickness measurements with partial coherence interferometry, ultrasound, and the Orbscan system. *Ophthalmology* 2004; 111:875-879
190. Rajan MS, Jycock P, O'Brart D, Hamberg Nystrom H, Marshall J. A long-term study of photorefractive keratectomy. 12-year follow-up. *Ophthalmology* 2004; 111:1813-1824
191. Rami A, Murthy BR, Sharma N, Titiyal JS, Vajpayee RB, Pandey RM, Singh R. Posterior corneal topographic changes after retreatment LASIK. *Ophthalmology* 2002; 109: 1991-1995
192. Randleman JB, Russell B, Ward MA, Thompson KP, Stulting RD. Risk factors and prognosis for corneal ectasia after LASIK. *Ophthalmology* 2003; 110:267-275
193. Randleman JB, Hewitt SM, Lynn MJ, Stulting RD. A comparison of 2 methods for estimating residual stromal bed thickness before repeat LASIK. *Ophthalmology* 2005; 112:98-103
194. Reader AL, Salz JJ. Differences among ultrasonic pachymeters in measuring corneal thickness. *J Refract Surg* 1987; 3:7-11

195. Redbrake C, Salla S, Nilius R, Becker J, Reim M. A histochemical study of the distribution of dextran 500 in human corneas during organ culture. *Curr Eye Res* 1997; 16:405-411
196. Reinstein DZ, Silverman RH, Coleman DJ. High-frequency ultrasound measurement of the thickness of the corneal epithelium. *J Refract Surg* 1993; 9:385-387
197. Reinstein DZ, Silverman RH, Rondeau MJ, Coleman DJ. Epithelial and corneal thickness measurements by high-frequency ultrasound digital signal processing. *Ophthalmology* 1994a;101:140-146
198. Reinstein DZ, Silverman RH, Trokel SL, Coleman DJ. Corneal pachymetric map. *Ophthalmology* 1994b;101:432-438
199. Reinstein DZ, Silverman RH, Sutton HFS, Coleman DJ. Very high-frequency ultrasound corneal analysis identifies anatomic correlates of optical complications of lamellar refractive surgery - Anatomic diagnosis in lamellar surgery. *Ophthalmology* 1999a; 106:474-482
200. Reinstein DZ, Srivannaboon S, Sutton HFS, Silverman RH, Holland SP, Coleman DJ. Risk of ectasia in LASIK: Revised safety criteria (ARVO abstract). *Invest Ophthalmol Vis Sci* 1999b; 40:S403
201. Reinstein DZ, Silverman RH, Raevky T, Simoni GJ, Lloyd HO, Najafi DJ, Rondeau MJ, Coleman DJ. Arc-scanning very high-frequency digital ultrasound for 3D pachymetric mapping of the corneal epithelium and stroma in laser in situ keratomileusis. *J Refract Surg* 2000; 16:414-430
202. Reinstein DZ, Srivannaboon S, Holland SP. Epithelial and stromal changes induced by Intacs examined by three-dimensional very high-frequency digital ultrasound. *J Refract Surg* 2001; 17:310-318
203. Richards DW, Russell SR, Anderson DR. A method for improved biometry of the anterior chamber with a Scheimpflug technique. *Invest Ophthalmol Vis Sci* 1988; 29:1826-1835
204. Roth HW. Hornhautpachymetrie beim Gesunden, Erkrankten und Kontaktlinsenträger. Enke, Stuttgart. 1994
205. Ruckhofer J, Twa MD, Schanzlin DJ. Clinical characteristics of lamellar channel deposits after implantation of Intacs. *J Cataract Refract Surg* 2000a; 26:1473-1479

206. Ruckhofer J, Böhnke M, Alzner E, Grabner G. Confocal microscopy after implantation of intrastromal corneal ring segments. *Ophthalmology* 2000b; 107:2144-2151
207. Rumelt S, Cohen I, Skandarani P, Delarea Y, Shaul YB, Rehany U. Ultrastructure of the lamellar corneal wound after laser in situ keratomileusis in human eye. *J Cataract Refract Surg* 2001; 27:1323-1327
208. Sabetti L, Spadea L, Furcese N, Balestrazzi E. Measurement of corneal thickness by ultrasound after photorefractive keratectomy in high myopia. *J Refract Surg* 1994; 10:S211-S216
209. Salz JJ, Azen SP, Berstein J, Caroline P, Villasenor RA, Schanzlin DJ. Evaluation and comparison of sources of variability in the measurement of corneal thickness with ultrasonic and optical pachymeters. *Ophthalmic Surg Lasers* 1983; 14:750-754
210. Sampson WG. Applied optical principles: Keratometry. *Ophthalmology* 1979; 86:347-351
211. Schanzlin DJ, Asbell PA, Burris TE, Durrie DS. The intrastromal corneal ring segments - Phase II results for the correction of myopia. *Ophthalmology* 1997; 104:1067-1078
212. Schuman JS, Hee MR, Puliafito CA, Wong C, Pedut-Kloizman T, Lin CP, Hertzmark E, Izatt JA, Swanson EA, Fujimoto JG. Quantification of nerve fiber layer thickness in normal and glaucomatous eyes using optical coherence tomography. *Arch Ophthalmol* 1995; 113:586-596
213. Seiler T, Kriegerowski M, Schnoy N, Bende T. Ablation rate of human corneal epithelium and Bowman's layer with the excimer laser (193 nm). *J Refract Surg* 1990; 6:99-102
214. Seiler T, Koufala K, Richter G. Iatrogenic keratectasia after laser in situ keratomileusis. *J Refract Surg*. 1998a; 14:312-317
215. Seiler T, Qurke PW. Iatrogenic keratectasia after LASIK in a case of forme fruste keratoconus. *J Cataract Refract Surg* 1998b; 24:1007-1009
216. Shemesh G, Dotan G, Lipshitz I. Predictability of corneal flap thickness in laser in situ keratomileusis using three different microkeratomes. *J Refract Surg* 2002; 18:S347-S351
217. Sher NA, Chen V, Bowers RA, Frantz JM, Brown DC, Eiferman R, Lane SS, Parker P, Ostrov C, Doughman D, Carpel E, Zabel R, Gothard T, Lindstrom RL. The use of the 193-

- nm excimer laser for myopic photorefractive keratectomy in sighted eyes. A multicenter study. *Arch Ophthalmol* 1991; 109:1525-1530
218. Shimmura S, Yang HY, Bissen-Miyajima H, Simazaki J, Tsubota K. Posterior corneal protrusion after PRK. *Cornea* 1997; 16:686-688
219. Simon G, Ren Q, Kervick GN, Parel JM. Optics of the corneal epithelium. *J Refract Surg* 1983; 9:42-50
220. Slowik C, Somodi A, Richter A, Guthoff R. Assessment of corneal alterations following laser in situ keratomileusis by confocal slit scanning microscopy. *Ger J Ophthalmol* 1997; 5:526-531
221. Sobottka Ventura AC, Wälti R, Böhnke M. Corneal thickness and endothelial density before and after cataract surgery. *Br J Ophthalmol* 2001; 85:18-20
222. Solomon KD, Donnenfeld E, Sandoval HP, Al Sarraf O, Kasper TJ, Holzer MP, Slate EH, Vroman DT. Flap thickness accuracy: Comparison of 6 microkeratome models. *J Cataract Refract Surg* 2004; 30:964-977
223. Spadea L, Fasciani R, Necozone S, Balestrazzi E. Role of the corneal epithelium in refractive changes following laser in situ keratomileusis. *J Refract Surg* 2000; 16:133-139
224. Spadea L, Cerrone L, Necozone S, Balestrazzi E. Flap measurements with the Hansatome microkeratome. *J Refract Surg* 2002; 18:149-154
225. Srinivisan R. Ablation of polymers and biological tissue by ultraviolet lasers. *Science* 1986; 234:559-565
226. Stachs O, Martin H, Kirchhoff A, Stave J, Terwee T, Guthoff R. Monitoring accommodative ciliary muscle function using three-dimensional ultrasound. *Graefe's Arch Clin Exp Ophthalmol* 2002; 240:906-912
227. Starck T, Hersh PS, Kenyon KR. Corneal dysgenesis, dystrophies, and degenerations. In: Albert DM, Jakobiec FA (Hrsg) *Principles and practice of ophthalmology* (Second edition). WB Saunders, Philadelphia. 2000; S. 746-747
228. Stave J, Zinser G, Grümmer G, Guthoff R. Der modifizierte Heidelberg-Retina-Tomograph HRT – Erste Ergebnisse einer In-vivo-Darstellung von kornealen Strukturen. *Ophthalmologie* 2002; 99:276-280

229. Stiekland NC. A detailed analysis of the effects of various fixatives on animal tissue with particular reference to muscle tissue. *Stain Technology* 1975; 50:255-264
230. Stock EL, Kurpakus MA, Sambol B, Jones JCR. Adhesion complex formation after small keratectomy wounds in the cornea. *Invest Ophthalmol Vis Sci* 1992; 33:304-313
231. Stulting RD, Carr JD, Thompson KP, Waring III GO, Wiley WM, Walker JG. Complications of laser in situ keratomileusis for the correction of myopia. *Ophthalmology* 1999; 106:13-20
232. Sugar A, Rapuano CJ, Culbertson WW, Huang D, Varley GA, Agapitos PJ, deLuise VP, Koch DD. Laser in situ keratomileusis for myopia and astigmatism: safety and efficacy. A report by the American Academy of Ophthalmology. *Ophthalmology* 2002; 109:175-187
233. Terry M, Ousley P, Zjhra M. Hydration changes in cadaver eyes prepared for practice and experimental surgery. *Arch Ophthalmol* 1994; 112:538-543
234. Thompson RW, Choi DM, Price MO, Potrzebowski L, Price FW. Noncontact optical coherence tomography for measurement of corneal flap and residual stromal bed thickness after laser in situ keratomileusis. *J Refract Surg* 2003; 19:507-515
235. Toth CA, Narayan DG, Boppart SA, Hee MR, Fujimoto JG, Birngruber R, Cain CP, DiCarlo CD, Roach WP. A comparison of retinal morphology viewed by optical coherence tomography and by light microscopy. *Arch Ophthalmol* 1997; 115:1425-1428
236. Tran DB, Sarayba MA; Bor Z, Garufis C, Duh YJ, Soltes CR, Juhasz T, Kurtz RM. Randomized prospective clinical study comparing induced aberrations with IntraLase and Hansatome flap creation in fellow eyes. *J Cataract Refract Surg* 2005; 31:97-105
237. Trokel SL, Srinivisan R, Braren B. Excimer laser surgery of the cornea. *Am J Ophthalmol* 1983; 96:710-715
238. Twa MD, Nichols JJ, Joslin CE, Kollbaum PS, Edrington TB, Bullimore MA, Mitchell GL, Cruickshanks KJ, Schanzlin DJ. Characteristics of corneal ectasia after LASIK for myopia. *Cornea* 2004; 23:447-457
239. Ustundag C, Bahcecioglu H, Ozdamar A, Aras C, Yildirim R, Ozkan S. Optical coherence tomography for evaluation of anatomical changes in the cornea after laser in situ keratomileusis. *J Cataract Refract Surg* 2000; 26:1458-1462

240. Varley GA, Huang D, Rapuano CJ, Schallhorn, Boxer Wachler BS, Sugar A. LASIK for hyperopia, hyperopic astigmatism, and mixed astigmatism. A report by the American Academy of Ophthalmology. 2004; 111:1604-1617
241. Vesaluoma M, Pérez-Santonja J, Petroll WM, Linna T, Alió J, Tervo T. Corneal stromal changes induced by myopic LASIK. *Invest Ophthalmol Vis Sci* 2000; 41:369-376
242. Villasenor RA, Santos VR, Cox KC, Harris DF, Lynn M, Waring III GO. Comparison of ultrasonic corneal thickness measurements before and during surgery in the prospective evaluation of radial keratotomy (PERK) study. *Ophthalmology* 1986; 93:327-330
243. Wälti R, Böhnke M, Gianotti R, Bonvin P, Ballif J, Salathé RP. Rapid and precise in vivo measurement of human corneal thickness with optical low-coherence reflectometry in normal human eyes. *J Biomed Optics* 1998;3:253-258
244. Walter KA, Stevenson AW. Effect of environmental factors on myopic LASIK enhancement rates. *J Cataract Refract Surg* 2004; 30:798-803
245. Wang J, Fonn D, Simpson TL, Jones L. Relation between optical coherence tomography and optical pachymetry measurements of corneal swelling induced by hypoxia. *Am J Ophthalmol* 2002a; 134:93-98
246. Wang J, Fonn D, Simpson T, Jones L. The measurement of corneal epithelial thickness in response to hypoxia using optical coherence tomography. *Am J Ophthalmol* 2002b; 133:315-319
247. Wang J, Fonn D, Simpson TL. Topographical thickness of the epithelium and total cornea after hydrogel and PMMA contact lens wear with eye closure. *Invest Ophthalmol Vis Sci* 2003a; 44:1070-1074
248. Wang J, Fonn D, Simpson TL, Jones L. Precorneal and pre- and postlens tear film thickness measured indirectly with optical coherence tomography. *Invest Ophthalmol Vis Sci* 2003b; 44:2524-2528
249. Wang J, Fonn D, Simpson TL, Sorbara L, Kort R, Jones L. Topographical thickness of the epithelium and total cornea after overnight wear of reverse-geometry rigid contact lenses for myopia reduction. *Invest Ophthalmol Vis Sci* 2003c; 44:4742-4746

250. Wang J, Thomas J, Cox I, Rollins A. Noncontact measurement of central corneal epithelial and flap thickness after laser in situ keratomileusis. *Invest Ophthalmol Vis Sci* 2004a; 45:1812-1816
251. Wang J, Simpson TL, Fonn D. Objective measurements of corneal light-backscatter during corneal swelling by optical coherence tomography. *Invest Ophthalmol Vis Sci* 2004b; 45:3493-3498
252. Waring GO. A cautionary tale of innovation in refractive surgery. *Arch Ophthalmol* 1999; 117:1069-1073
253. Wheeler NC, Morantes CM, Kristensen RM, Pettit TH, Lee DA. Reliability coefficients of three corneal pachymeters. *Am J Ophthalmol* 1992; 113:645-651
254. Whitacre MM, Stein RA, Hassanein K. The effect of corneal thickness on applanation tonometry. *Am J Ophthalmol* 1993; 115:592-596
255. Wilhelm FW, Giessmann T, Hanschke R, Duncker GI, Wilhelm LH. Cut edges and surface characteristics produced by different microkeratomes. *J Refract Surg* 2000; 16:690-700
256. Wilson G, O'Leary DJ, Henson D. Micropachometry: a technique for measuring the thickness of the corneal epithelium. *Invest Ophthalmol Vis Sci* 1983; 19:414-417
257. Wirbelauer C, Holschbach A, Huebscher HJ, Wollensak J. On-line Scheimpflug videography of the corneal profile after Erbium:YAG laser photoablation. *Lasers Light Ophthalmol* 1997a; 8:47-52
258. Wirbelauer C, Anders N, Pham DT, Wollensak J. Effect of incision location on preoperative oblique astigmatism after scleral tunnel incision. *J Cataract Refract Surg* 1997b; 23:365-371
259. Wirbelauer C, Anders N, Pham DT, Wollensak J. Corneal endothelial cell changes in pseudoexfoliation syndrome after cataract surgery. *Arch Ophthalmol* 1998a; 116:145-149
260. Wirbelauer C, Hoerauf H, Roeder J, Laqua H. Corneal shape changes after pars plana vitrectomy. *Graefe's Arch Clin Exp Ophthalmol* 1998b; 236:822-828

261. Wirbelauer C, Koop N, Tuengler A, Geerling G, Birngruber R, Laqua H, Brinkmann R. Corneal endothelial cell damage after experimental diode laser thermal keratoplasty. *J Refract Surg* 2000a; 16:323-329
262. Wirbelauer C, Scholz C, Hoerauf H, Engelhardt R, Birngruber R, Laqua H. Corneal optical coherence tomography before and immediately after excimer laser photorefractive keratectomy. *Am J Ophthalmol* 2000b; 130:693-699
263. Wirbelauer C, Scholz C, Hoerauf H, Bastian GO, Engelhardt R, Birngruber R, Laqua H. Untersuchungen der Hornhaut mittels optischer Kohärenztomographie. *Ophthalmologie* 2001a; 98:151-156
264. Wirbelauer C, Scholz C, Engelhardt R, Laqua H, Pham DT. Biomorphometrie des Hornhautepithels mittels spaltlampenadaptierter optischer Kohärenztomographie. *Ophthalmologie* 2001b; 98:848-852
265. Wirbelauer C, Scholz C, Winkler J, Häberle H, Pham DT. Korneale optische Kohärenztomographie bei refraktiven Eingriffen der Hornhaut. In: Demeler U, Völcker HE, Auffarth GU (Hrsg) 15. Kongreß der Deutschsprachigen Gesellschaft für Intraokularlinsen-Implantation und refraktive Chirurgie. Biermann, Köln. 2001c; S. 221-226
266. Wirbelauer C, Scholz C, Hoerauf H, Pham DT, Laqua H, Birngruber R. Noncontact corneal pachymetry with slitlamp-adapted optical coherence tomography. *Am J Ophthalmol* 2002a; 133:444-450
267. Wirbelauer C, Scholz C, Häberle H, Laqua H, Pham DT. Corneal optical coherence tomography before and after excimer laser phototherapeutic keratectomy for recurrent epithelial erosions. *J Cataract Refract Surg* 2002b; 28:1631-1637
268. Wirbelauer C, Winkler J, Bastian GO, Häberle H, Pham DT. Histopathological correlation of corneal diseases with optical coherence tomography. *Graefe's Arch Clin Exp Ophthalmol* 2002c; 240:727-734
269. Wirbelauer C, Häberle H, Pham DT. Korneale optische Kohärenztomographie bei Laser in situ Keratomileusis. In: Auffarth GU, Völcker HE, Kohnen T, Demeler U (Hrsg) 16. Kongreß der Deutschsprachigen Gesellschaft für Intraokularlinsen-Implantation und refraktive Chirurgie. Biermann, Köln. 2002d; S. 401-406

270. Wirbelauer C, Häberle H, Pham DT. Optische online Pachymetrie bei LASIK - Erste klinische Erfahrung. In: Auffarth GU, Völcker HE, Kohnen T, Demeler U (Hrsg) 16. Kongreß der Deutschsprachigen Gesellschaft für Intraokularlinsen-Implantation und refraktive Chirurgie. Biermann, Köln. 2002e; S. 389-394
271. Wirbelauer C, Winkler J, Scholz C, Häberle H, Pham DT. Experimental imaging of intracorneal ring segments with optical coherence tomography. J Refract Surg 2003a; 19:367-371
272. Wirbelauer C, Pham DT. Intraoperative optical coherence pachymetry during laser in situ keratomileusis - first clinical experience. J Refract Surg 2003b; 19:372-377
273. Wirbelauer C, Karandish A, Aurich H, Pham DT. Imaging of scleral expansion bands for presbyopia with optical coherence tomography. J Cataract Refract Surg 2003c; 29:2435-2438
274. Wirbelauer C, Karandish A, Häberle H, Pham DT. Optical coherence tomography in malignant glaucoma following filtration surgery. Br J Ophthalmol 2003d; 87:952-955
275. Wirbelauer C, Aurich H, Jaroszewski J, Hartmann C, Pham DT. Experimental evaluation of online optical coherence pachymetry for corneal refractive surgery. Graefe's Arch Clin Exp Ophthalmol 2004a; 242:24-30
276. Wirbelauer C, Häberle H, Pham DT. Optische Online-Pachymetrie bei Laser-in-situ-Keratomileusis. Ophthalmologe 2004b; 101:140-145
277. Wirbelauer C, Pham DT. Monitoring of corneal structures with slitlamp-adapted optical coherence tomography in laser in situ keratomileusis. J Cataract Refract Surg 2004c; 30:1851-1860
278. Wirbelauer C, Pham DT. Continuous monitoring of corneal thickness changes during LASIK with online optical coherence pachymetry. J Cataract Refract Surg 2004d; 30:2559-2568
279. Wirbelauer C, Pham DT. Imaging and quantification of calcified corneal lesions with optical coherence tomography. Cornea 2004e; 23:439-442
280. Wirbelauer C, Karandish A, Häberle H, Pham DT. Noncontact gonioscopy with optical coherence tomography. Arch Ophthalmol 2005a; 123:179-185

281. Wirbelauer C, Böhm T, Häberle H, Pham DT. Lamellar keratotomy to correct astigmatism in cataract surgery. *Graefe's Arch Clin Exp Ophthalmol* 2005b; 243:243-249
282. Wirbelauer C, Pham DT. Imaging of interface fluid after laser in situ keratomileusis with corneal optical coherence tomography. *J Cataract Refract Surg* 2005c; 31:853-856
283. Wirtitsch MG, Findl O, Kiss B, Petternel V, Heinzl H, Drexler W. Short-term effect of dorzolamide hydrochloride on central corneal thickness in humans with cornea guttata. *Arch Ophthalmol* 2003; 121:621-625
284. Wong AM, Wong CC, Yuen NY, Hui SP. Correlational study of central corneal thickness measurements on Hong Kong chinese using optical coherence tomography, Orbscan and ultrasound pachymetry. *Eye* 2002; 16:715-721
285. Yaylali V, Kaufman SC, Thompson HW. Corneal thickness measurements with the Orbscan Topography System and ultrasonic pachymetry. *J Cataract Refract Surg* 1997; 23:1345-1350
286. Yi WM, Joo CK. Corneal flap thickness in laser in situ keratomileusis using an SCMD manual microkeratome. *J Cataract Refract Surg* 1999; 25:31087-1092
287. Yildirim R, Aras C, Ozdamar A, Bahcecioglu H, Ozkan S. Reproducibility of corneal flap thickness in laser in situ keratomileusis using the hansatome microkeratome. *J Cataract Refract Surg* 2000; 26:1729-1732