

KPro Study Group

BIBLIOGRAPHY

Of

KERATOPROSTHESIS

And

ARTIFICIAL CORNEA

and

BIOMATERIALS THEREFOR

1789 to 2011



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- Acosta AC, Espana EM, Stoiber J, et al.: Corneal stroma regeneration in felines after supradescemetic keratoprosthesis implantation. *Cornea* 2006; 25(7): 830 – 838.
- Akpek EK, Harissi-Dagher M, Petrarca R, et al.: Outcomes of Boston keratoprosthesis in aniridia: A retrospective multicenter study. *Am J Ophthalmol* 2007; 144(2): 227 – 231.
- Alamillo M, Alamillo R: Implantation of an artificial cornea. *Am J Ophthalmol* 1963; 56:937-941.
- Alberth B: Experience with kerato-prosthetics. *Fortschritte der Ophthalmologie* 1991; 88(1):1-3.
- Alberts B, Bray D, Lewis J, Raff M, Roberts K, Watson JD: Cell growth and division. In: *Molecular biology of the cell*. New York: Garland, 1983; 618-19.
- Aldave AJ, Kamal KM, Vo RC, Yu F: The Boston type I keratoprosthesis: improving outcomes and expanding indications. *Ophthalmology*. 2009 Apr; 116(4): 640-51.
- Alfonso E: Clinical Experience with keratoprostheses. *Refract Corneal Surg* 1993; 9: 202-203.
- Alfonso EC: Clinical experience with the Dohlman-Doane keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 49-50
- Alfonso EC, Tseng SCG: Clinical indications and action mechanisms of amniotic membrane transplantation for ocular surface reconstruction in patients being considered for keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:147-149.
- Alio JL, Mulet ME, Haroun H, Merayo J, Ruiz Moreno JM. Five year follow up of biocolonisable microporous fluorocarbon haptic (BIOKOP) keratoprosthesis implantation in patients with high risk of corneal graft failure. *Br Journal of Ophthalmology* 2004 Dec; 88(12): 1585-9.
- Alio JL, Mulet ME, Zapata LF, Vidal MT, De Rojas V, Javaloy J. Intracorneal inlay complicated by intrastromal epithelial opacification. *Arch Ophthalmol*. 2004 Oct; 122(10):1441-6
- Alvarez De Toledo J, Barraquer I, Temprano J, Carreras H, Torres E, Barraquer J: Osteo-odonto-keratoprosthesis: A 30 years retrospective study. *An Inst Barraquer (Barc.)* 1999; 28(S):95-100
- Allan B: Artificial corneas. *BMJ* 1999; 27; 318(7187): 821-822.
- Allan B: Web based registry for data analysis of Kpro surgery: An on line registry for clinical keratoprosthesis implantation. EVER 2000, abstract 3145. *Ophthalmic Research* 2000; 32(S2): 122.
- Allgoewer I, McLellan GJ, Agarwal S: A keratoprosthesis prototype for the dog. *Vet Ophthalmol*. 2010 Jan; 13(1): 47-52.
- Amano S: [Transplantation of corneal endothelial cells] *Nippon Ganka Gakkai Zasshi*. 2002 Dec; 106(12): 805-35; discussion 836. Review. Japanese.



Ament JD, Spurr-Michaud SJ, Dohlman CH, Gipson IK: The Boston Keratoprosthesis: comparing corneal epithelial cell compatibility with titanium and PMMA. *Cornea*. 2009 Aug; 28(7): 808-11.

Ament JD, Stryjewski TP, Ciolino JB, Todani A, Chodosh J, Dohlman CH: Cost-effectiveness of the Boston keratoprosthesis. *Am J Ophthalmol*. 2010 Feb; 149(2): 221-228.

Ament JD, Stryjewski TP, Pujari S, Siddique S, Papaliadis GN, Chodosh J, Dohlman CH. Cost effectiveness of the type II Boston keratoprosthesis. *Eye (Lond)*. 2011 Mar; 25(3):342-9. Epub 2010 Dec 24.

Ament JD, Tilahun Y, Mudawi E, Pineda R. Role for ipsilateral autologous corneas as a carrier for the Boston keratoprosthesis: the Africa experience. *Arch Ophthalmol*. 2010 Jun;128(6):795-7.

Ament JD, Todani A, Pineda R 2nd, Shen TT, Aldave AJ, Dohlman CH, Chodosh: Global corneal blindness and the Boston keratoprosthesis type I. *Am J Ophthalmol*. 2010 Apr; 149(4):537-9.

Anderson O: Theoretical considerations for an artificial corneal implant. *Brit J Ophthalmol* 1951; 35: 628-630.

Anonymous. Proceedings of the 1st Keratoprosthesis Study Group Meeting. Miami, Florida, November 6, 1992. Abstracts. *Refract Corneal Surg* 1993; 9.

Annenkova TF: O primeneniі elasticheskol plastmassy (EG-12) dlya formirovaniya kul'ti posle enukleatsii (On the use of elastic plastic (EG-12) for forming a stump after enucleation). *Oftal'mologicheskil Zhurnal* 1958; 6:344-346.

Anseth A, Dohlman CH, Albert DM: Epithelial downgrowth--fistula repair and keratoplasty. *Refract Corneal Surg* 1991; 7(1):23-7.

Aquavella JV: Pediatric keratoprosthesis: a new surgical approach. *Ann Ophthalmol (Skokie)*. 2008 Summer; 40(2):64-7.

Aquavella JV, Rao GN, Brown AC, Harris JK: Keratoprosthesis. Results, complications and management. *Trans Am Acad Ophthalmol Otolaryngol* 1982; 89: (6) 655-660.

Aquavella JV: Clinical experience with the Cardona keratoprosthesis. *Cornea* 1983; 2:177.

Aquavella J, Bath P, Buxton G, et al. Keratoprosthesis Conference. *Cornea* 1983; 2/3:229-236.

Aquavella JV: Keratoprosthesis: Avoiding Complications. *Refract Corneal Surg* 1993; 9:195-196.

Aquavella JV: Keratoplasty. Keratoprosthesis. Smolin G, Thoft RA: The cornea. Scientific foundations and clinical practice. Little, Brown Co., Boston, 1994; 3rd ed: 665-672.

Aquavella JV: Keratoprosthesis in the treatment of severe ocular trauma. *Can J Ophthalmol-*



Journal Canadien d'Ophthalmologie 2008; 43(2): 153 – 154.

Aquavella JV, Gearinger MD, Akpek EK, et al.: Pediatric keratoprosthesis. *Ophthalmology* 2007; 114(5): 989 – 994.

Aquavella JV, Qian Y, McCormick GJ, et al.: Keratoprosthesis: The Dohlman-Doane device. *Am J Ophthalmol* 2005; 140(6): 1032 – 1038.

Aquavella JV, Qian Y, McCormick GJ, et al.: Keratoprosthesis - Current techniques. *Cornea* 2006; 25(6): 656 – 662.

Arruga A: Los plasticos en oftalmologia. *Arch Soc Oftal Hisp-Am* 1955; 15:815-1014.

Artigas JM, Felipe A, Diaz-Llopis M, Garcia-Delpech S, Navea A: Imaging quality of bifocal piggyback intraocular lens versus ReSTOR and TECNIS multifocal lenses. *Eur J Ophthalmol*. 2010 Jan-Feb; 20(1): 71-5.

Artigas JM, Menezo JL, Peris C, et al.: Image quality with multifocal intraocular lenses and the effect of pupil size - Comparison of refractive and hybrid refractive-diffractive designs. *J Cat Refrac Surg* 2007; 33(12): 2111 – 2117.

Azar DT, Jain S, Sambursky R, Strauss L. Microkeratome-assisted posterior keratoplasty. *J Cataract Refract Surg*. 2001 Mar; 27(3):353-6.

Azar DT, Jain S, Sambursky R. A new surgical technique of microkeratome-assisted deep lamellar keratoplasty with a hinged flap. *Arch Ophthalmol*. 2000 Aug; 118(8):1112-5.

B

Bagrov SN, Kivaev AA: Izmeneniya v rogovitse pri neskvoznom keratoprotezirovanii (Corneal changes in the case of nonpenetrating keratoprosthetics). In: Aktual'nye voprosy oftal'mologii (Pressing problems of ophthalmology). Medical Institute, Kuibyshev, 1973; p 185.

Bagrov SN, Ronkina TI, Moroz ZI, Reshetneva RN: Strukturnofunktsional'nye izmeneniya v rogovitse pri neskvoznom keratoprotezirovanii (eksperimental'nye issledovaniya) (Structural and functional changes in the cornea in nonpenetrating keratoprosthetics (experimental researches). In: Aktual'nye voprosy oftal'mologii (Pressing problems of ophthalmology). Medical Institute, Kuibyshev, 1973; pp 124-128.

Bagrov SN: Reaktivnye izmeneniya rogovitsy pri implantatsii alloplasticheskikh protezov (Reactive changes of the cornea when alloplastic prostheses are implanted). Dissertation for a candidate's degree (medicine). Moscow Dental Institute, Moscow 1975.

Baikoff G, Beauvillain-de-Montreuil C, Colin J: Indications et techniques de la keratoprothese. *Bull Soc Ophthalmol Fr* 1979; 79(10): 929-931.

Baikoff G, Beauvillain de Montreuil C: Place for and technique of keratoprosthesis. *Bulletins et Memoires de la Societe Francaise d'Ophthalmologie* 1980; 92:282-8.



Banissoni M, Ponzo E, Valvo A: Percezione strutturata e trasposizione di forme nelle prime esperienze visive di un cieco dai primi mesi di vita operato in età adulta di osteo0odonto-cheratoprotesi di strampelli. *Annali di Ottalmologia e clinica Oculistica* 1967; Vol XCIII, No. 11.

Banissoni M, Ponzo E, Valvo A: Prime esperienze visive di tre cieche dalla nascita operate in età adulta di osteo-odonto-cheratoprotesi di Strampelli: percezione strutturata e trasposizione di forme. *Annali di Oftalmologia e Clinica Oculistica* 1968; Vol. XCIV, No. 8.

Banitt M. Evaluation and management of glaucoma after keratoprosthesis. *Curr Opin Ophthalmol*. 2011 Mar;22(2):133-6. Review.

Bar S, Savir H, Gasner S, Levy M: Experimental sclera-implanted keratoprosthesis. *Isr J Med Sci* 1988; 24:710-114.

Bar S, Savir H, Gasner S, Levy M: Tangential-radial traction suturing technique for intrascleral foreign material implantation. *Ophthalmic Surgery* 1989; 20(9): 651-4.

Barber JC, Feaster F, Priour D: The acceptance of a vitreous carbon alloplastic material, Proplast in the rabbit eyes. *Invest Ophthalmol Vis Sci* 1980; 19:182-194.

Barber JC: Keratoprosthesis: past and present. *Int Ophthalmol Clin* 1988; 28(2):106-109.

Barber JC: Modifications of Keratoprosthesis to improve retention. *Refract & Corneal Surg* 1993; 9:200-201.

Barnham JJ, Roper Hall MJ: Keratoprosthesis: long-term review. *Brit J Ophthalmol*; 1983; 67:468-477.

Barnes SD, Dohlman CH, Durand ML: Fungal colonization and infection in Boston keratoprosthesis. *Cornea* 2007; 26: 9 – 15.

Barogi G, Colliardo P, Taloni M, Falcinelli G: Ciclodiasiasi a Doppio Filo Nella Osteo Odonto Cherato-Protesi. *Boll Ocul* 1989; 68:1007-1018.

Barogi G, Colliardo P, Taloni M, Falcinalli G: Sulla utilizzazione di un dente incluso per l'intervento di osteodontocheratoprotesi. *Boll Ocul* 1990; 69/1:81-88.

Barogi G, Colliardo P, Falcinelli G, Vergari M: L'utilizzazione della cute nella osteo-odonto-cheratoprotessi. Atti LXXIII Congresso Soc. Oftalmologica Italiana 1993, 803-805.

Barogi G, Corazza E, Petitti V, Micozzi I, Vergari M: Glaucoma surgery before and after osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 77-78.

Baron MA: Corneal and lens prostheses in plastic material. *Bull Soc Franc Opht* 1954; 386.

Barraquer J: Trends in Ophthalmic Surgery. *Survey Ophthal* 1956, 1/6:186-189.



- Barraquer J, Mestre J, Rutllan J: Estudio histologico de dos fragmentos de cornea con implante acrilico. *An Inst Barraquer* 1960; 1/4:498-510.
- Barraquer J: Inclusion de protesis opticas corneanas, corneas acrilicas o queratoprotesis. *An Inst Barraquer* 1960; 1/2:243-247.
- Barraquer J: Keratoplastie perforante totale et keratoplastie en acrylique. *Oto-Noro Ofalmoloji Ayri Baski* 1960; 15/3.
- Barraquer J: Total perforating keratoplasty and acrylic keratoplasty. Proc Symp Prague 1960. Czechoslovak Academy of Sciences 1962; 289-295.
- Barraquer J: Rutllan J (eds): Conceptos modernos sobre cirugia de la cornea. *An Inst Barraquer* 1964; 5:308-415.
- Barraquer J: Restauracion de la funcion visual mediante queratoplastias y queratoprotesis. *An Med Cir* 1964; XLIV/183:156-169.
- Barraquer J: Discusion al trabajo de Strampelli B: Intervention de osteo-odonto-queratoprotesis. *Arch Soc Oftal Hisp-Am* 1965; 25:69-77.
- Barraquer J: Panel eight. In: The Cornea. World Congress, London. Butterworths, 1965; pp 685-692.
- Barraquer J: Interview on Keratoprosthesis. *Highlights of Ophthalmology* 1967; 10:222-225.
- Barraquer J: Keratoplasty and keratoprosthesis. Pocklington Memorial Lecture delivered at the Royal College of Surgeons of England on 5th May, 1966. *Annals of the Royal College of Surgeons of England*. 1967; 40(2): 71-81.
- Barraquer J: And see, no longer blinded by our eyes. *Abbotempo*. 1968; 1:24-27.
- Barraquer J, Rutllan J: Cirugia del segmento anterior del ojo. Barcelona: Instituto Barraquer 1969.
- Barraquer J, Rutllan J: Die Chirurgia des vorderen Augenabschnittes. Barcelona: Instituto Barraquer 1971.
- Barraquer J: Discusion al trabajo de Strampolli B: Interet de l'osteo-odonto-keratoprothese dans un cas de xerosis venant d'un pemphigus malin. *Bull Soc Franc Ophtal* 1971; 84:319.
- Barraquer J, Rutllan J: Surgery of the Anterior Segment of the Eye. Barcelona: Instituto Barraquer 1971.
- Barraquer J: Los trasplantes de cornea. Primera Leccion de Catedra. Universidad Autonoma de Barcelona. 12 February 1972.
- Barraquer J: Keratoplastik und Wiederherstellung des vorderen Augenabschnittes nach schweren Verletzungen. *Klin Monatsbl Augenheilkd* 1979; 175/3:295-301.



Barraquer J, Rutllan J: Atlas de Microcirugia de la cornea. Barcelona: Ediciones Scriba 1982.

Barraquer J, Rutllan J: Microsurgery of the cornea. An Atlas and Textbook. Barcelona: Ediciones Scriba 1984.

Barraquer J, Rutllan J: Mikrochirurgie der Kornea. Ein Atlas und Textbuch. Stuttgart: Enke 1991.

Barraquer J, Nadal J. A new PMMA keratoprosthesis fixated with a ring of biointegrated ceramics. EVER 2000, abstract 3144. *Ophthalmic Research* 2000; 32(S2): 122.

Barraquer J: Early experiences and present views on keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:33.

Barraquer MJ: Localized discontinuity of the precorneal lacrimal film. Etiology of Fuchs' marginal corneal ulcers, of progression of pterygium and of certain corneal necroses in the neighborhood of keratoprostheses and keratoplasties. *Ophthalmologica* 1965; 150(2): 111-22.

Barron BA, Dingeldeim S, Kaufman HE: Spontaneous unscrewing of a Cordona keratoprosthesis. *Am J Ophthalmol* 1987; 103:331- 339.

Barron BA: Prosthokeratoplasty. In: Kaufman HE, Barron BA, McDonald MB, Waltman SR (eds). *The Cornea*. Livingstone Churchill, 1988; 787-803.

Basu S, Taneja M, Sangwan VS. Boston type 1 keratoprosthesis for severe blinding vernal keratoconjunctivitis and Mooren's ulcer. *Int Ophthalmol*. 2011 Mar 22. [Epub ahead of print]

Bath P: Keratoprosthesis: an alternative in anterior segment reconstruction. *J Am Intraocular Implant Soc* 1980; 6:126-128.

Bath P, Prendiville K: Keratoprosthesis in a clinically physical eye. *Cornea* 1983; 2:203-206.

Bath P, McCord RC, Cox K: Nd:YAG laser discission of retroprosthetic membrane: A preliminary report. *Cornea* 1983; 2:225-228.

Bath PE, Fridge DL, Robinson K, McCord RC: Photometric evaluation of YAG-induced polymethylmethacrylate damage in a keratoprosthesis. *J Am Intraocul Implant Soc* 1985; 11:253-256.

Bath P: Atlas of Contemporary Ophthalmic Surgery. Clayman HC, ed. St Louis, Mo: CV Mosby; 1990 (chapter 6): 125-158.

Bath P: UCLA keratoprosthesis study: 1978-1990. *Refract Corneal Surg* 1993; 9:201-202.

Bedilo VYa: O protezirovanií rogovol obolochki v eksperimente (On experimental corneal prosthetics). *Vestnik Oftal'mologii* 1968; 2:9-13.

Bedilo VYa: Pervye rezul'taty chastichnogo skvoznogo protezirovaniya 'beznadezhnykh' bel'm (First results of the palbral penetrating prosthetics of 'hopeless' leukomas). *Vestnik Oftal'mologii* 1969; 5:70-74.



Bedilo VYa: Posleoperatsionnye oslozhneniya pri skvoznom keratoprotezirovani rogovol obolochki v klinike (Postoperative complications in penetrating keratoprosthesis of the cornea in the clinic). In: *Oslozhneniya v oftal'mokhirurgii (Complications in ophthalmosurgery)*. Medical Institute, Kuibyshev, 1970; pp 175-179.

Bedilo VYa: Eksperimental'nye i klinicheskie issledovaniya pri skvoznom protezirovani po alloplastike rogovol obolochki (Experimental and clinical studies in penetrating prosthetics concerning corneal alloplasty). Author's abstract of his dissertation for a doctor's degree (medicine). Medical Institute, Arkhangelsk 1971.

Bedilo VYa: Alloplastika rogovol obolochki (Corneal alloplasty). In: *Aktual'nye voprosy oftal'mologii (Pressing problems of ophthalmology)*. Medical Institute, Kuibyshev, 1972; pp 197-199.

Bedilo V Ya: Otdalennye rezul'taty skvoznogo protezirovaniya bel'm vznikayushchikh posle tyazhelykh khimicheskikh ozhogov (Long-term results of the penetrating prosthetics of leukomas which originate after severe chemical burns). *Oftal'mologicheskil Zhurnal* 1974; 6:403-404.

Bedilo VYa: Alloplastika rogovitsy (Corneal alloplasty). In: *Tezisy dokladov 3 Vserossiiskogo s'ezda oftal'mologov v Moskve (Papers of the Third All-Russia Congress of Ophthalmologists in Moscow)*. Ministry of Health of the USSR, Moscow, 1975; pp 239-249.

Bedilo VYa: Pozdnie oslozhneniya skvoznogo keratoprotezirovaniya bel'm (Late complications of the penetrating keratoprosthesis in leukomas). *Oftal'mologicheskil Zhurnal* 1976; 8:530-581.

Behrens A, Dolorico AM, Kara DT, Novick LH, McDonnell PJ, Chao LC, Wellik SR, Chuck RS. Precision and accuracy of an artificial anterior chamber system in obtaining corneal lenticules for lamellar keratoplasty. *J Cataract Refract Surg*. 2001 Oct;27(10):1679- 87.

Beekhuis WH, Zivojnovic R: Use of temporary keratoprosthesis in the management of severe ocular trauma with retinal detachment and proliferative vitreoretinopathy. *Dev Ophthalmol* 1989; 18:86-89.

Bellelli A, Avitto A, Liberali M, Iannetti L, David V: Osteo-odonto-keratoprosthesis. Radiographic, CT and MR features. *Radiologia Medica* 2001; 102 (3): 143-7.

Ben-nun J: Cornea sparing by the endoscopically guided vitreoretinal surgery. *Ophthalmology* 2001; 108(8): 1465-70.

Benner JD, Landers MB: An Infusion Temporary Keratoprosthesis. *Am J Ophthalmol* 1996; 122(4) 579-580.

Berger E, Gaebert K, Saedler J, Kreiner CF, Guthoff R: In-Vitro study of silicone foam and ePTFE as potential haptic materials for keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:177-179.

Berta A: Keratoprosthesis. Implantation of artificial corneas. *Acta Chirurgica Hungarica* 1997; 36(1-4):30-2.



Bertelsen TI, Sybersen K: Experience with keratoprotheses. *Acta Ophthalmol (Cope)* 1973; Suppl 120:45-50.

Biber JM, Skeens HM, Neff KD, Holland EJ. The cincinnati procedure: technique and outcomes of combined living-related conjunctival limbal allografts and keratolimbal allografts in severe ocular surface failure. *Cornea*. 2011 Jul; 30(7):765-71.

Bietti G: The present state of the use of plastics in eye surgery. *Acta Ophthalmologica* 1955; 33:337-370.

Binder H, Binder R: Experiments on plexiglas corneal implants. *Am J Ophthalmol* 1956; 41:793-797.

Binkhorst CD: Intraoculaire lensprothese volgens Ridley. *Nederlands Tijdschrift voor Geneeskunde* 1956; 100:3522-3528.

Bleckmann H, Holak S: Preliminary results after implantation of four AlphaCor artificial corneas. *Graefes Arch Clin Exp Ophthalmol*. 2005 Aug 17; 1-5.

Blencke BA, Hagen P, Bromer H et al: Untersuchungen über die Verwendbarkeit von Glaskeramiken zur Osteo-Odonto- Keratoplastik. *Ophthalmologica* 1978; 176:105-112.

Bock R, Maumenee: A Corneal fluid metabolism. Experiments and observation. *Arch Ophthalmol* 1953; 50:282-285.

Boruchoff A, Thoft RA, Roberts C: Keratoprotheses. In: *The Cornea*. Smolin G, Thoft RA (eds) 1987; 549-563.

Boscher C: Vitreo-retinal surgery for retinal detachment in eyes with Lacombe keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 87-88.

Boscher C, Lacombe E: Vitrectomy in keratoprosthesis patients. *Proc Club J Gonin, Versailles*, Sept. 1994.

Bordyugova GG, Gundorova RA: Pokazaniya k keratoplastike s uchetom immunologicheskikh reaktzii (Indications for keratoplasty with regard to immunologic reactions). *Vestnik Oftal'mologii* 1978; 1:59-63.

Botelho PJ, Congdon NG, Handa JT, et al.: Keratoprosthesis in high-risk pediatric corneal transplantation: First 2 cases. *Arch Ophthalmol* 2006; 124(9): 1356 – 1357.

Bradley JC: Insertion of an osteo-odonto-keratoprosthesis into the human cornea. A preliminary report. *Br Dent J* 1966; 120/1:39-40.

Bradley JC, Hernandez EG, Schwab IR, Mannis MJ: Boston type 1 keratoprosthesis: the university of california davis experience. *Cornea*. 2009 Apr; 28(3): 321-7.

Bradley JC, Tasanen A: The osteo-odonto-keratoprosthesis. *Suomen Hammaslaakariseuran Toimituksia* 1968; 64(2):64-7.



- Brenman K, Parel J M: Toward a complication-free KPro. A critical review of KPro advancement since 1995. *An Inst Barraquer (Barc.)* 1999; 28(S): 187-192.
- Brown SI, Dohlman CH: A buried corneal prosthesis. *Arch Ophthalmol* 1963; 70:736.
- Brown S, Dohlman CA: Buried corneal implant serving as a barrier to fluid. *Arch Ophthalmol* 1965; 73: 635-639.
- Brown S, Weller C, Wassermann H: Collagenolytic activity of alkali-burned corneas. *Arch Ophthalmol* 1969; 81:370-373.
- Brown S, Weller C: Collagenase inhibitors in prevention of ulcers of alkali burned cornea. *Arch Ophthalmol* 1970, 83: 352-354.
- Bueso Rodriguez J: Oresentacion de tres nuevos prototipos de queratoprotesis y su implantacion en animales de experimentacion. *Arch Soc Esp Oftal* 1980; 5:43.
- Bruin P, Meeuwse EA, van Andel NW, Worst JG, Pennings AJ: Autoclavable highly cross-linked polyurethane networks in ophthalmology. *Biomaterials* 1993; 14(14): 1089-97.
- Burbach GJ, Naik SM, Harten JB, Liu L, Dithmar S, Grossniklaus H, Ward SL, Armstrong CA, Caughman SW, Ansel JC. Interleukin-18 expression and modulation in human corneal epithelial cells. *Curr Eye Res.* 2001 Jul; 23(1):64-8.
- Busin M, Zambianchi L, Arffa RC. Microkeratome-assisted lamellar keratoplasty for the surgical treatment of keratoconus. *Ophthalmology.* 2005 Jun; 112(6):987-97.
- Butyanich DG, Kalfa NS: Prichiny vozniknoveniya vtorichnol glaukomy pri bel'makh i posle chastichnol skvoznol corneal transplantation). *Oftal'mologicheskil Zhurnal* 1960; 4:195-199.
- Buxton JN: Keratoprosthesis: Personal experiences. *Trans Am Acad Ophthalmol Otolaryngol* 1977; 83:268.

C

- Cahane M. Artificial cornea and the future of eye banking. *Cell Tissue Bank.* 2000; 1(4):319-20.
- Caiazza S, Fanizza C, Mazziotti I, Pintucci S, Tomaino M: Light and scanning electron microscopy evaluation of the Dacron felt as the haptic part of an improved keratoprosthesis. An in vitro and in vivo study. *Clinical Materials* 1988; 3:33-40.
- Caiazza S, Pintucci S, Taruscio D, Formisano G, Doneli G: Biomaterials Centered Infection of the Transcutaneous Pintucci's Keratoprosthesis. 1st Congress Biomaterials in Ophthalmology. An Interdisciplinary Approach. University of Bologna (Proceedings) 1990: 157-163.
- Caiazza S, Falcinelli G, Pintucci S: Exceptional case of bone resorption in an osteo-odonto-



keratoprosthesis. A scanning electron microscopy and X-ray microanalysis study. *Cornea* 1990; 9: 23-27.

Caiazza S, Pintucci S, Donelli G: Biointegrable keratoprotheses: performances and recent improvements. *Ital J Ophthalmol* 1993; 7(1):13-20.

Caiazza S, Pintucci S, Pintucci F, Cecconi M: The Pintucci's Dacron tissue keratoprosthesis: Scanning electron microscopy aspects of infection related failures in transcutaneous implants in dry eyes. *An Inst Barraquer (Barc.)* 1999; 28(S): 71-75.

Cakiner-Egilmez T, Daly MK. Indications and care of keratoprosthesis patients. *Insight*. 2010 Apr-Jun; 35(2):10-3.

Caldwell DR: The soft keratoprosthesis. *Transactions of the American Ophthalmological Society* 1997; 95:751-802.

Campbell CD, Brooks DH, Webster RW, Diamond DL, Bhitson HT, Peel RL: Expanded microporous polytetrafluoroethylene as a vascular substitute. A two-year follow up. *Surgery* 1979; 2:177-187.

Campillo-Fernandez AJ, Pastort S, Abad-Collado M, et al.: Future design of a new keratoprosthesis. physical and biological analysis of polymeric substrates for epithelial cell growth. *BIOMACROMOLECULES* 2007; 8(8): 2429-2436.

Caporossi A, Mazzotta C, Balestrazzi A, et al.: Histopathology of explanted AlphaCor due to keratoprosthesis extrusion. *Clin Exp Ophthalmol* 2006; 34(5): 457 – 459.

Cardona H: Keratoprosthesis: acrylic optical cylinder with supporting interlamellar plate. *Am J Ophthalmol* 1962; 54: 284-294.

Cardona H: Plastic keratoprotheses, a description of the plastic material and comparative histology of recipient corneas. *Am J Ophthalmol* 1964; 58,2:247-252.

Cardona H: Plastic keratoprotheses. Human application. In: *The Cornea*. World Congress, London. Butterworths. 1965; pp 672- 684.

Cardona H: Keratoprotheses: elimination of light reflection from the walls of the optical cylinder. *Int Ophthalmol Clinics* 1966; 6(1): 111-8.

Cardona H: Anterior & posterior mushroom keratoprotheses: an experimental study. *Am J Ophthalmol* 1966; 61:498-504.

Cardona H, Castroviejo R, de Voe AG: Techniques of prosthokeratoplasty: Further evaluation of results with the Cardona keratoprosthesis. *Exc Med Int* 1966; 146:837-847.

Cardona H: Keratoprosthesis with a plastic fiber meshwork supporting plate. Report of an experimental and comparative histologic study. *Am J Ophthalmol* 1967; 64:228-233.

Cardona H: Mushroom transcorneal keratoprosthesis. (Bolt and nut). *Am J Ophthalmol* 1969; 68:604-612.



- Cardona H: Prosthokeratoplasty: techniques and results. *Corneoplastic surgery*. New York, Pergamon Press. 1969; 353-358.
- Cardona H, de Voe A: Symposium: keratoprosthesis, prosthokeratoplasty. *Trans Am Acad Ophthalmol Otolaryngol* 1977; 83:271- 280.
- Cardona H: Prosthokeratoplasty. *Cornea* 1983; 179-184.
- Cardona H: The Cardona keratoprosthesis: 40 years experience. *Refract Corneal Surg* 1991; 7(6): 468-71.
- Carlsson DJ, Li F, Shimmura S, Griffith M: Bioengineered corneas: how close are we? *Curr Opin Ophthalmol* 2003; 14(4):192-7.
- Carroll CP, Keates RH: Bone formation in a periosteal graft. *Arch Ophthalmol* 1979 97(5):916.
- Carroll DM: Instrument for placement of temporary keratoprosthesis during pars plana vitrectomy. *Am J Ophthalmol* 1983; 95:718- 719.
- Caselli M, Menchi A, Petitti V, Nebbioso M: L'osteo-odonto-cheratoprotesi nelle causticazioni chimico fisiche del bulbo: Il trattamento chirurgico del glaucoma. *Atti LXXIII Congresso Soc. Oftalmologica Italiana* 1993, 803-805.
- Caselli M, Colliardo P, Falcinelli G, Nebbioso M: Falcinelli's osteo-odonto-keratoprosthesis: Long term results. *An Inst Barraquer (Barc.)* 1999; 28(S): 113-114.
- Caselli M, D'Alberto A, Vergari M, Nebbioso M, Colliardo P: The biological properties of osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 45-46.
- Casey TA: Osteo-odonto-cheratoprotesi and chondrokeratoprosthesis. *Proc Royal Soc Med* 1970; 63:313-314.
- Castroviejo R: Indicaciones de las protesis corneales. Tecnicas y resultados. In: Barraquer J, Rutllan R(eds) *Conceptos modernos sobre cirugia de la cornea. An Inst Barraquer* 1964; 5:412-413.
- Castroviejo R: Panel eight. In: *The Cornea. World Congress, London. Butterworths.* 1965; pp 685-692.
- Castroviejo R: Complications of prosthokeratoplasty. In: *Atlas of Keratectomy and Keratoplasty.* Philadelphia: WB Saunders. 1966:392.
- Castroviejo R, Cardona H, de Voe A: Present status of prosthokeratoplasty. *Am J Ophthalmol* 1969; 68:613-625.
- Castroviejo R: Prosthokeratoplastie. *L'Annee Ther Clin Ophtal* 1972; 23:11.
- Castroviejo R, Cardona H, de Voe A: Symposium: keratoprosthesis, history, techniques, and indications. *Trans Am Acad Ophthalmol Otolaryngol* 1977; 83:249-251.



Chak G, Aquavella JV. A safe Nd:YAG retroprosthetic membrane removal technique for keratoprosthesis. *Cornea*. 2010 Oct; 29(10):1169-72.

Chalam KV, Chokshi A, Agarwal S, et al.: Complications of AlphaCor keratoprosthesis - A clinicopathologic report. *Cornea* 2007; 26(10): 1258 – 1260.

Chammartin M, Goldblum D, Früh B, Wilkens L, Bosshardt D, Sarra GM: Case report of osteo-odonto keratoprosthesis (Strampelli) and of Dacron keratoprosthesis (Pintucci) [German]. *Klin Monbl Augenheilkd*. 2009 Mar; 226(3): 180-3.

Chan CC, Holland EJ, Sawyer WI, Neff KD, Petersen MR, Riemann CD. Boston Type 1 Keratoprosthesis Combined With Silicone Oil for Treatment of Hypotony in Prephthical Eyes. *Cornea*. 2011 Jun 2. [Epub ahead of print]

Chan GY, Hughes TC, McLean KM, McFarland GA, Nguyen X, Wilkie JS, Johnson G. Approaches to improving the biocompatibility of porous perfluoropolyethers for ophthalmic applications. *Biomaterials*. 2006 Mar; 27(8): 1287-95. Epub 2005 Sep 19.

Chane, M: Artificial cornea and the future of eye banking. *Cell & Tissue Banking* 2000; 1(4): 319-320.

Chang PCT, Lee SD, Huang JH: Biocompatibility of an artificial corneal membrane. In vivo animal study. (ARVO). *Invest Ophthalmol Vis Res* 1995; 36(4): S314.

Chang PC-T, Lee S-D, Hsiue G-H: Heterobifunctional membranes by plasma induced graft polymerization as an artificial organ for penetration keratoprosthesis. *J Biomed Mater Res* 1998; 39: 380-389.

Chen YC, Chirila TV, Russo AV: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. II. Effect of monomer mixture composition on the equilibrium water content and swelling behaviour. *Mater Forum* 1993; 17(1): 57-65.

Chen J, Zhang S, Guo L, Zheng H, Lin J, Zheng J. [Primary research about reconstruction of cornea in three-dimensional collagen gel in vitro] *Zhonghua Yan Ke Za Zhi*. 2001 Jul; 37(4): 244-7. Chinese.

Chen YT, Tseng SH, Chao SC. Novel Mutations in the Helix Termination Motif of Keratin 3 and Keratin 12 in 2 Taiwanese Families with Meesman Corneal Dystrophy. *Cornea* 2005; 24 (8): 928-932

Chen J, Xu J, Yakimenko SA, Hou G, Sun B, Zheng A, Zhao S: Preliminary clinical study on perforating prosthokeratoplasty. *Yan Ke Xue Bao* 2003; 19(3): 146-9,194.

Chen J, Li Q, Xu J, Huang Y, Ding Y, Deng H, Zhao S, Chen R. Study on biocompatibility of complexes of collagen-chitosan-sodium hyaluronate and cornea. *Artif Organs*. 2005 Feb; 29(2):104-13.

Cherkunov BF, Malov VM: Skvoznoe opticheskoe keratoprotezirovanie intralamel'nykh korneoskleroplastikol (Penetrating optical keratoprosthetics with intralamellar corneoscleroplasty). In: Materialy 4-go vsesoyuznogo s"ezda oftal'mologov (Papers of the



Fourth All-Union Congress of Ophthalmologists). Ministry of Health of the USSR, Moscow, 1973; v 2, pp 636-638.

Cherkunov EF, Malov VM: Open alloplasty of the cornea with mushroom-shaped keratoprosthesis. *Oftalmologicheskii Zhurnal* 1974; 29(6): 405-8.

Chew HF, Ayres BD, Hammersmith KM, Rapuano CJ, Laibson PR, Myers JS, Jin YP, Cohen EJ: Boston keratoprosthesis outcomes and complications. *Cornea*. 2009 Oct; 28(9): 989-96.

Chikamoto N, Teranishi S, Chikama T, et al.: Abnormal retinal blood vessels in Ehlers-Danlos syndrome type VI. *Jpn J Ophthalmol* 2007; 51(6): 453 – 455.

Chilaris G, Liaricos S: Fascia of the temporalis muscle in scleral buckling and keratoprosthesis operations. *Am J Ophthalmol* 1973; 76:35-37.

Chirila TV, Chen YC, Griffin BJ, Constable IJ: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. I. Effect of monomer mixture composition on the pore size. *Polym International* 1993, 32(3):331-232.

Chirila TV, Constable IJ, Crawford GJ, Vijayasekaran S, Thompson DE, Chen YC, Fletcher WA, Griffin BJ: Poly(2-hydroxyethyl methacrylate) sponges as implant materials: in vivo and evaluation of cellular invasion. *Biomaterials* 1993; 14(1): 26-38.

Chirila TV, Vijayasekaran S, Horne R, Chen YC, Dalton PD, Constable IJ, Crawford GJ: Interpenetrating polymer network (IPN) as a permanent joint between the elements of a new type of artificial cornea. *J Biomed Mater Res* 1994; 28:745-753.

Chirila TV: Modern artificial corneas: The use of porous polymers. *Trends Polym Sci* 1994; 2(9): 296-300.

Chirila TV, Yu DY, Chen YC, Crawford GJ: Enhancement of mechanical strength of poly(2-hydroxyethyl methacrylate) sponges. *J. Biomed. Mater. Res.* 1995; 29(8): 1029-1032.

Chirila TC, Thompson-Wallis DE, Crawford GJ, Constable IJ, Vijayasekaran S: Production of cells invading hydrogel sponges implanted in the rabbit cornea. *Graefes Arch Clin Exp Ophthalmol* 1996; 234:193-198.

Chirila TV: Artificial cornea (Hydrophylic polymeric sponges). In *Polymeric Materials Encyclopedia*, vol. 2, pp. 1525-1531. J.C. Salamone, editor. CRC Press, Inc., Boca Raton, FL, 1996.

Chirila TV, Crawford GJ: A controversial episode in the history of artificial cornea: the first use of poly(methyl methacrylate). *Gesnerus* 1996, 53(3/4): 236-242.

Chirila TV, Thompson-Wallis DE, Crawford GJ, Constable IJ, Vijayasekaran S: Production of neocollagen by cells invading hydrogel sponges implanted in the rabbit cornea. *Graefe's Arch Clin Exp Ophthalmol* 1996; 234:193-198.

Chirila TV: Artificial cornea with a porous polymeric skirt. *Trends Polym. Sci* 1997; 5(11): 346-348.



Chirila TV, Hicks CR, Dalton PD, Vijayasekaran S, Lou X, Hong Y, Clayton AB, Ziegelaar BW, Fitton JH, Platten S, Crawford GJ, Constable IJ: Artificial cornea. *Prog. Polym. Sci.* 1998; 23(3): 447-473.

Chirila T V, Higgins B, Dalton PD: The effect of synthesis conditions on the properties of poly(2-hydroxyethyl methacrylate) sponges. *Cellular Polym* 1998; 17(3): 141-162.

Chirila TV, Lou X, Vijayasekaran S, Ziegelaar BW, Hong Y, Clayton AB: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. VI. Effect of phase sequence inversion on the characteristics of IPN between sponges and homogeneous gels. *Int. J. Polymeric Mater.* 1998; 40(1/2): 97-104.

Chirila TV, Hicks CR: The origins of the artificial cornea: Pellier de Quengsy and his contribution to the modern concept of keratoprosthesis. *Gesnerus* 1999; 56(1-2):96-106.

Chirila TV: An overview of the development of artificial corneas with porous skirts and the use of PHEMA for such an application. *Biomaterials*; 2001; 22(24): 33117-7

Chirila TV, Chirila M, Ikada Y, Eguhi H, Shiota H. A historical review of artificial cornea research in Japan. *Jpn J Ophthalmol.* 2005 Jan-Feb; 49(1): S1-13. Review.

Chirila TV: First development of a polyurethane keratoprosthesis and its Australian connection: an unbeknown episode in the history of artificial cornea. *Clin Exp Ophthalmol* 2006; 34(5): 485 – 488.

Chow CC, Kulkarni AD, Albert DM, et al.: Clinicopathologic correlation of explanted AlphaCor artificial cornea after exposure of implant. *Cornea* 2007; 26(8): 1004 – 1007.

Choyce DP: Management of endothelial corneal dystrophy with acrylic corneal inlays. *Brit J Ophthalmol* 1965; 49(8): 432-440.

Choyce DP: The present status of intracameral and intracorneal implants. *Can J Ophthalmol* 1969; 3:307-311.

Choyce DP: The present status of keratoprosthesis. *Israel J Med Sci* 1972; 8(8): 1285-9.

Choyce DP: Results of keratoprosthetics in Britain. *Ophthalmic Surg* 1973; 4: 23-32.

Choyce DP: The Choyce 2-piece perforating keratoprosthesis: 107 cases, 1967-1976. *Ophthalmic Surg* 1977; 8:117-126.

Choyce DP: Evolution of the Choyce 2-piece multistage perforating keratoprosthesis technique. *Ann Ophthalmol* 1980; 12:740-743.

Choyce DP: Keratoprosthesis. *Am J Ophthalmol* 1980; 89:152-153.

Choyce DP: Semirigid corneal inlays used in management of albinism aniridia and ametropia. Acta XXIV International Congress of Ophthalmology, San Francisco, Lippincott Company, 1982; 1230-1234.



Choyce DP: Why are keratoprotheses not given more attention? *Eur J Implant Refract Surg* 1991; 3, 3:231.

Ciolino JB, Dohlman CH: Biologic keratoprosthesis materials. *Int Ophthalmol Clin*. 2009 Winter; 49(1): 1-9. Review.

Ciralsky J, Papaliadis GN, Foster CS, Dohlman CH, Chodosh J. Keratoprosthesis in autoimmune disease. *Ocul Immunol Inflamm*. 2010 Aug; 18(4):275-80. Review.

Claes C, Worst J, Zivojnovic R: Retinal detachment surgery following implantation of keratoprosthesis. A case report. *Bull Soc belge Ophthalmol* 1992; 243:167-169.

Clayton AB, Chirila TV, Dalton PD: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. III. Effect of incorporating a hydrophilic crosslinking agent on the equilibrium water content and pore structure. *Polym. Int*. 1997; 42(1): 45-56.

Clayton AB, Chirila TV, Lou X: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. V. Effect of crosslinking agent reactivity on mechanical properties. *Polym. Int*. 1997; 44(2): 201-207.

Coassin M, Zhang C, Green WR, et al.: Histopathologic and immunologic aspects of AlphaCor artificial corneal failure. *Am J Ophthalmol* 2007; 144(5): 699 – 704.

Colby KA, Koo EB. Expanding indications for the Boston keratoprosthesis. *Curr Opin Ophthalmol* 2011 Jul; 22(4):267-73.

Coleman DJ, Jack RL, Cardona H: Ultrasonic evaluation of eyes with keratoprotheses. *Am J Ophthalmol* 1972; 74/3:543-554.

Colliardo P, Avitabile T, Buratto E, Filadora P, Serra G: Echography in osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 137-138.

Colliardo P, Caselli M, Falcinelli GC, Grabner G, Micozzi I: Osteo-odonto-keratoprosthesis in the treatment of corneal blindness due to “dry eye”. *An Inst Barraquer (Barc.)* 2001; 30:189-190.

Colyer MH, Weber ED, Weichel ED, et al.: Delayed intraocular foreign body removal without endophthalmitis during operations Iraqi freedom and enduring freedom. *Ophthalmology* 2007; 114(8): 1439 – 1447.

Corazza E, Petitti V, D’Alberto A, Filadoro P, Colliardo P: Complications of Falcinelli’s osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 69-70.

Cotliar AM, Gorman BD: Scleral pocket incision applied to insertion of the nut and bolt keratoprosthesis. *J Cataract Refract Surg* 1990; 16(5): 649-651.

Cowden JW, Gigantelli JW: Successful treatment of keratoprosthesis skirt exposure using a transpositional conjunctiva-lower eyelid retractor complex flap. *An Inst Barraquer (Barc.)* 2001; 143-146.



Cox NH, Bearn MA, Herold J, et al.: Blindness due to the IgA variant of epidermolysis bullosa acquisita, and treatment with osteo-odonto-keratoprosthesis. *Br J Dermato* 2007; 156(4): 775 – 777.

Crawford GJ, Chirila TV, Vijayasekaran S, Dalton PD, Constable IJ: Preliminary Evaluation of a hydrogel Core-and-Skirt Keratoprosthesis in the Rabbit Cornea. *J Refract Surg* 1996; 12:525-529.

Crawford GJ, Constable IJ, Chirila TV, Vijayasekaran S, Thompson DE: Tissue interaction with hydrogel sponges implanted in the rabbit cornea. *Cornea* 1993; 12(4): 348-357.

Crawford GJ, Chirila TV, Vijayasekaran S, Dalton PD, Constable IJ. Preliminary evaluation of a hydrogel core-and-skirt keratoprosthesis in the rabbit cornea. *J Refract Surg* 1996; 12:525-529.

Crawford GJ, Eguchi H, Hicks CR. Two cases of AlphaCor surgery performed using a small incision technique. *Clinical Experiment Ophthalmol.* 2005, Feb; 33 (1): 10-15

Crawford GJ, Hicks CR, Lou X, Vijayasekaran S, Tan D, Mulholland B, Chirila TV, Constable IJ.: The Chirila Keratoprosthesis: Phase I Human Clinical Trial. *American Academy of Ophthalmology* 2000, Abstract.

Crawford GJ, Hicks CR, Lou X, Vijayasekaran S, Tan D, Mulholland B, Chirila TV, Constable IJ. The Chirila Keratoprosthesis: phase I human clinical trial. *Clinical Trial, Phase I. Ophthalmology* 2002; 109(5): 883-9.

Cruces H: Strampelli osteo-odonto-keratoprosthesis. The Spanish author's experience. Medical Thesis (French), University of Lille, France 1991.

Cuperus PL, Jongebloed WL, Van Andel P, Kolenbrander M, Worst JGF: SEM and LM evaluation of a glass-platinum keratoprosthesis: seven months after implantation in rabbits. *Proc. 9th Eur. Congr. for EM.* York, Sept. 1988. Ch. 10, 3:287-288.

Cuperus PL, Jongebloed WL, Van Andel P, Worst JF: Glass-metal keratoprosthesis: light and electron microscopical evaluation of experimental surgery on rabbit eyes. *Documenta Ophthalmologica* 1989; 71: 29-4717.

D

Davson J: The hydration of the cornea. *Biochem J* 1955, 59:1-24.

Day R: Artificial corneal implants (implantation of plastic discs in cats and rabbits). *Trans Am Ophthalmol Soc* 1957; 55:455-475.

de Araujo AL, Charoenrook V, de la Paz MF, Temprano J, Barraquer RI, Michael R. The role of visual evoked potential and electroretinography in the preoperative assessment of osteo-keratoprosthesis or osteo-odonto-keratoprosthesis surgery. *Acta Ophthalmol.* 2011 May 19. doi: 10.1111/j.1755-3768.2010.02086.x. [Epub ahead of print]



De Bakey M, Crawford E, Morris G, Cooley D: Patch graft angioplasty in vascular surgery. *J Cardiovasc Surg* 1962; 3:106-141.

De La Paz MF, De Toledo JÁ, Charoenrook V, Sel S, Temprano J, Barraquer RI, Michael R. Impact of clinical factors on the long-term functional and anatomic outcomes of osteo-odonto-keratoprosthesis and tibial bone keratoprosthesis. *Am J Ophthalmol*. 2011 May;151(5):829-839.e1. Epub 2011 Feb 18.

De Smet MD, Mura M: Minimally invasive surgery - endoscopic retinal detachment repair in patients with media opacities. *Eye* 2008; 22 (5) 662 – 665.

Detorakis ET, Loannakis K, Dardabounis D, et al.: Prolonged exposure of intraocular lens implant with preservation of globe integrity and visual function. *Ophthalmic Surg Lasers & Imaging* 2007; 38(6): 508 – 510.

De Voe AG: A review of the technique of keratoprosthesis. *Surv Ophthalmol* 1971; 16:170-174.

De Voe AG: Current status of the keratoprosthesis. *Trans Ophthalm Soc NZ* 1973; 25:127-129.

De Voe AG: Keratoprosthesis: History, techniques and indications. *Trans Am Acad Ophthalmol Otolaryngol* 1977; 83:249.

De Voe A, Kelman C: Evaluation of collagen-based corneal grafts in the rabbit model. *Refract Corneal Surg* 1993; 9:208-209.

DeVore DP, Skelnik D, Kornmehl EW: Evaluation of collagen based allografts. Enhancement of epithelialization. *An Inst Barraquer (Barc.)* 1999; 28(S):175-176.

Diallo J, Moliva G: Keratoplasties et keratoprostheses en milieu africain a Dakar. *Bull Soc Med Afr Noire Lang Fr* 1970; 15/2:318- 319.

Diehl KA, Foley JD, Nealey PF, Murphy CJ. Nanoscale topography modulates corneal epithelial cell migration. *J Biomed Mater Res A*. 2005 Dec 1;75(3):603-11.

Dimmer F: Zur operativen Behandlung totaler Hornhautnarben mit forderen Synechien. 20. Versammlung der Ophthalmologie, Berlin. Gesel, Heidelberg, 1889; p 147-163.

Dimmer F: Notiz uber Cornea artificialis. *Klinische Monatsblätter fur Augenheilkunde* 1891; 29:104-105.

Doane MG, Dohlman CH, Bearn G: Fabrication of a Keratoprosthesis. *Cornea* 1996; 15(2): 179-184.

Dohlman CH, Brown SI: Treatment of corneal edema with a buried implant. *Trans Am Acad Ophthalmol Otolaryngol* 1966; 70:267- 280.

Dohlman CH, Refojo MF, Rose J: Synthetic polymers in corneal surgery. I. Glycerylmetacrylate. *Arch Ophthalmol* 1967; 77:252.



Dohlman CH, Refojo MF: Alloplastic implants in corneal edema. *Inter Ophthalmol Clin* 1968; 8:729-756.

Dohlman CH, Schneider HA, Doane MG: Prosthokeratoplasty. *Am J Ophthalmol* 1974; 77:694-700.

Dohlmann CH: Biology of complications following keratoprosthesis. *Cornea* 1983; 2:175-179.

Dohlman CH: Biology of complications following keratoprosthesis. *Am J Ophthalmol* 1987; 103:331-332.

Dohlman CH: Postoperative regimen and repair of complications after keratoprosthesis surgery. *Refract Corneal Surg* 1993; 9:198- 199.

Dohlman CH, Brown SI, Martola E: Replacement of the endothelium with alloplastic material. A new technique in corneal surgery. *Trans Am Acad Ophthalmol Otolarygol* 1967; 71:851-864.

Dohlman CH, Doane MG: Some factors influencing outcome after keratoprosthesis surgery. *Cornea* 1994; 13:214-218.

Dohlman CH, Doane MG: Keratoprosthesis in end-stage dry eye. *Adv Exp Med Biol* 1994; 350:561-564.

Dohlman CH, Grosskreutz CL, Chen TC, Pasquale LR, Rubin PA, Kim EC, Durand M: Shunts to divert aqueous humor to distant epithelialized cavities after keratoprosthesis surgery. *J Glaucoma*. 2010 Feb; 19(2): 111-5.

Dohlman CH, Terada H. Keratoprosthesis in pemphigoid and Stevens-Johnson syndrome. *Adv Exp Med Biol* 1998; 438: 1021-5.

Dohlman CH, D'Amico DJ: Case Reports and Small Case Series: Can an Eye in Phthisis be Rehabilitated? A Case of Improved Vision with 1-Year Follow-up. *Arch Ophthalmol* 1999; 117:123-124.

Dohlman CH, Terada H: Keratoprosthesis in pemphigoid and Stevens-Johnson syndrome. *Adv Exp Med Biol* 1998; 438:1021-5.

Dohlman CH, Netland PA, Fung WC: Experience with a keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 105-108.

Dohlman CH, D'Amico DJ: Case Reports and Small Case Series: Can an Eye in Phthisis be Rehabilitated? A Case of Improved Vision with 1-Year Follow-up. *Arch Ophthalmol*. 1999; 117: 123-124.

Dohlman CH: Keratoprosthesis in non-cicatrizing conditions. *An Inst Barraquer (Barc.)* 2001; 30:41.

Dohlman CH: Glaucoma following keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30: 133.

Dohlman C: Outcome after keratoprosthesis surgery: toward common definitions. *An Inst*



Barraquer (Barc.) 2001; 30: 233-235.

Dohlman CH, Grosskreutz C, Dudenhofer EJ, Rubin PAD: Can a glaucoma shunt tube be safely extended to the lacrimal sac or the ethmoid sinus in keratoprosthesis patients? *Digital Journal of Ophthalmology*, 7(3), 2001. www.djo.harvard.edu

Dohlman CH, Dudenhofer EJ, Khan BF, Morneault S: Protection of the ocular surface after keratoprosthesis surgery: the role of soft contact lenses. *CLAO J* 2002; 28(2): 72-4.

Dohlman, Claes H: Keratoprosthesis in endstage corneal disease. *Acta Ophthalmologica Scandinavica Supplement. 82 Supplement* 2004; 1:336-337.

Dong X, Wang W, Xie L, et al. Long-term outcome of combined penetrating keratoplasty and vitreoretinal surgery using temporary keratoprosthesis *Eye (England)*, Jan 28 2005,

Donn A: Aphakic bullous keratopathy treated with prosthokeratoplasty. An analysis of 34 consecutive cases. *Arch Ophthalmol* 1976; 94:270.

Donn A: Additional follow-up of 34 cases of prosthokeratoplasty. *Trans Am Acad Ophthalmol Otolaryngol* 1977; 83:281.

Donn A, Cotliar AM: Cardona keratoprosthesis. Hornblass A, Hanig CJ: Oculoplastic, orbital, and reconstructive surgery. Volume Two. Orbit and lacrimal system. Williams and Wilkins, Baltimore. 1990; 1271-1286.

Dorsee M: Keratoprosthesse acrylique. *Bull Soc Belge Ophthalmol* 1955; 108:582.

Drubaix I, Legeais J-M, Malek-Chehire N, Savoldelli M, Menasche M, Robert L, Renard G, Pouliquen Y: Collagen Synthesized in Fluorocarbon Polymer Implant in the Rabbit Cornea. *Exp Eye Res.* 1996; 62: 367-376.

Drubaix I, Legeais JM, Malek-Chehire N, Savoldelli M, Menasche M, Robert L, Renard G, Pouliquen Y: Collagen synthesized in fluorocarbon polymer implant in the rabbit cornea. *Exp Eye Res.* 1996; 62:367-376.

Drubaix I, Legeais JM, Savoldelli M, Renard G, Pouliquen Y: Extracellular matrix synthesized within an ePTFE corneal implant. *An Inst Barraquer (Barc.)* 1999; 28(S): 169-171.

Duan D, Klenkler BJ, Sheardown H: Progress in the development of a corneal replacement: keratoprostheses and tissue- engineered corneas. *Expert Review of Medical Devices* 2006; 3:59 – 72.

Duan X, Sheardown H: Dendrimer crosslinked collagen as a corneal tissue engineering scaffold: Mechanical properties and corneal epithelial cell interactions. *Biomaterials* 2006; 27(26): 4608 – 4617.

Duchesne B, Bougaran R, Durand D, Lacombe E, Tahiri H, Parel J M: Assessment of corneal mechanics of humans, pigs, and cats. Comparison with keratoprosthesis polymers. *An Inst Barraquer (Barc.)* 2001; 30:153-155.



Duchesne B, Bougaran R, Durand D, Lacombe E, Tahiri H, Parel JM: Assessment of corneal mechanics of humans, pigs and cats. Comparison with KPro polymers. *An Instituto Barraquer* 2001; 30(1-2): 153-155.

Dudenhoefer EJ, Nouri M, Gipson IK, Baratz KH, Tisdale AS, Dryja TP, Abad JC, Dohlman CH: Histopathology of explanted collar button keratoprotheses: a clinicopathologic correlation. *Cornea*. 2003; 22(5): 424-8.

Duncker G, Eckardt C: Modified temporary keratoprosthesis in the triple procedure: A new surgical technique. *J Cataract Refract Surg* 1988; 14:434-436.

Dunlap K, Chak G, Aquavella JV, Myrowitz E, Utine CA, Akpek E: Short-term visual outcomes of Boston type 1 keratoprosthesis implantation. *Ophthalmology*. 2010 Apr; 117(4): 687-92.

Durand ML, Dohlman CH: Successful prevention of bacterial endophthalmitis in eyes with the Boston keratoprosthesis. *Cornea*. 2009 Sep; 28(8): 896-901.

E

Eckardt U, Eckardt C: Keratoprosthesis as an aid to learning surgical techniques on cadaver eyes. *Ophthalmic Surgery* 1995; 26(4): 358-9.

Eisenmann D, Wagner R, Dick B, Jacobi KW. Effect of corneal astigmatism on contrast sensitivity in mono- and multifocal pseudophakia--a theoretical study of the physical eye. *Klinische Monatsblätter für Augenheilkunde* 1996; 209(2-3): 125-31.

Elschnig A: Über Keratoplastik. *Zeitschrift für Augenheilkunde* 1920; 43:405.

Erb MH, Taban M, Barsam CA, Sweet PM, Chuck RS.. Mechanical stability of microkeratome-assisted intracorneal keratoprosthesis implantation. *Arch Ophthalmol* (United States), Dec 2004, 122(12): 1839-43

Espana EM, Acosta AC, Stoiber J, Fernandez V, Lamar PD, Villain FL, Lacombe E, Alfonso E, Parel JM. Long-term follow-up of a supradescemetic keratoprosthesis in rabbits: an immunofluorescence study. *Graefes Arch Clin Exp Ophthalmol*. 2011 Feb; 249(2):253-60. Epub 2010 Sep 3.

Evans MD, Xie RZ, Fabbri M, Madigan MC, Chaouk H, Beumer GJ, Meijs GF, Griesser HJ, Steele JG, Sweeney DF. Epithelialization of a synthetic polymer in the feline cornea: a preliminary study. *Invest Ophthalmol Vis Sci*. 2000 Jun; 41(7):1674-80.

Evans MD, McLean KM, Hughes TC, Sweeney DF. A review of the development of a synthetic corneal onlay for refractive correction. *Biomaterials*. 2001 Dec; 22(24):3319-28. Review.

Evans MD, Xie RZ, Fabbri M, Bojarski B, Chaouk H, Wilkie JS, McLean KM, Cheng HY, Vannas A, Sweeney DF. Progress in the development of a synthetic corneal onlay. *Invest Ophthalmol Vis Sci* 2002; 43(10): 3196-201.



Evans MD, Taylor S, Dalton BA, Lohmann D. Polymer design for corneal epithelial tissue adhesion: pore density. *J Biomed Mater Res A*. 2003 Feb 1; 64(2):357-64.

Evans MD, McFarland GA, Taylor S, Walboomers XF. The response of healing corneal epithelium to grooved polymer surfaces. *Biomaterials*. 2005 May; 26(14):1703-11.

F

Falcinelli GC: Modifiche personali alla cheratoprotesi secondo choyce in casi particolari. *Atti LVII Congresso Soc Oftalmologica Italiana*, 1976, 341-343.

Falcinelli G, Vinciguerra VM: Utilizzazione e modifiche alla cheratoprotesi secondo choyce in case particolari. *Boll Di Ocul* 57, 521- 528, 1978.

Falcinelli G, De Feo G, Vinciguerra VM, Vinciguerra G: Il distacco di retina regmatogeno dopo intervento di cheratoprotesi. *Boll di Ocul* 1980-81, 59-60, 227-232.

Falcinelli G: Prostoheratoprotesi. *Atti LXIII Congresso Soc. Oftalmologica Italiana*, 1983, 719-720.

Falcinelli G, Colliardo F, Menghi A, Petitti V, Pinna C, Vasta MV: Sulla Utilizzazione del Tissucol negli interventi di cheratoprotesi. *Atti congresso multidisciplinare sus tissucol*, Pisa, 1985, 43-44.

Falcinelli G, Colliardo P, Petitti V, Pinna C: Tissucol (Tisseel) in Surgery of the ocular anterior segment. *Ophthalmology Neurosurgery*, 1986, Ed. Springer-Verlag, Vol 2, 98-103.

Falcinelli GC, Taloni M, Falsini B, Piccardi M, Falcinelli G: Postoperative assessment of visual function in patients with osteodontokeratoprosthesis. ARVO abstract. *Invest Ophthalmol Vis Sci* 1993, 1894-50, page 1089.

Falcinelli GC, Barogi G, Corazza E, Colliardo P: Osteo-odonto-cheratoprotesi: 20 anni di esperienze positive ed innovazioni. *Atti LXXIII Congresso Soc. Oftalmologica Italiana*, 1993, 529-532.

Falcinelli GC, Caselli M, Taloni M, Vergari M: I presupposti biologici deli osteo-odonto-cheratoprotesi. *Atti LXXIII Congresso Soc Oftalmologica Italiana*, 1993, 549-551.

Falcinelli GC, Falsini B, Taloni M, Piccardi R, Falcinelli G: Detection of glaucomatous damage in patients with osteo-odonto- keratoprosthesis. *Brit J Ophthalmol* 1995, 79:129-134.

Falcinelli G, Missiroli A, Petitti V, Pinna C: Osteo Odonto Keratoprosthesis up to Date. *Acta XXV Concilium Ophthalmologicum* 1986. Rome. Kugler & Ghedini; 1987: 2772-2776.

Falcinelli G, Barogi G, Taloni M: Osteodontokeratoprosthesis: Present experience and future prospects. *Refract Corneal Surg* 1993; 9:193-194.

Falcinelli GC, Barogi G, Colliardo P, Taloni M, Graziani L: New Possibilities in the Field of



OOKP: Contribution to Glaucoma Surgery. 1st Congress Biomaterials in Ophthalmology. An Interdisciplinary Approach. University of Bologna (Proceedings) 1990; pp 131-135.

Falcinelli GC, Taloni M, Colliardo P, Vergari M: Sull'Utilizzazione Dei Materiali Biocompatibili Nella Chirurgia Del Glaucoma. *Boll Ocul* 1991; 70 (suppl 1): 337-347.

Falcinelli GC, Barogi G, Cutruzzola R, Filadora P, Pinna C: Alternative covering tissue in OOKP. *An Inst Barraquer (Barc.)* 1999; 28(S): 119-120.

Falcinelli GC, Barogi G, Caselli M, Colliardo P, Taloni M: Personal changes and innovations in Strampelli's osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28 (S) 47-48.

Falcinelli G, Colliardo P, Corazza E, Taloni M: Falcinelli's osteo-odonto-keratoprosthesis: 25 years of surgical experience. *An Inst Barraquer (Barc.)* 2001; 30:53-54.

Falcinelli GC, Falsini Benedetto, Taloni Maurizio, Colliardo Paolo, Falcinelli G. Modified Osteo-odonto-keratoprosthesis for Treatment of Corneal Blindness. *Arch Ophthalmol.* 2005; 123: 1319-1329

Falcinelli G, Flecher R, Lupelli L, Palumbo P, Sala F: Osteo-odonto-keratoprosthesis (OOKP): New design of optical cylinder. *An Inst Barraquer (Barc.)* 2001; 30:199.

Falsini B, Falcinelli G, Taloni M, Piccardi M: Valutazione funzionale nel paziente con osteo-odonto-keratoprotesi. *Atti LXXIII Congresso Soc Oftalmologica Italiana* 1993, 885-888.

Falsini B, Taloni M, Piccardi M, Valentini P, Falcinelli GC, Falcinelli G: Electro-physiological and psycho-physical assessment of visual function in patients with Falcinelli's OOKP. *An Inst Barraquer (Barc.)* 1999; 28(S): 139-140.

Fang YD, Xiao M, Fei HY. Implantation of hydroxyapatite-titanium corneal implants in rat cornea. *Cornea.* 2011 Jan; 30(1):67-72.

Farzad Y, Nouri M, Abad JC, Power WJ, Doane MG, Dohlman CH: Keratoprosthesis: Preoperative prognostic categories. *Cornea* 2001; 20(1): 19-23.

Faulbom J: Eine neue Methode zur festen Verankerung der Keratoprothese im Wirtsgewebe. *Klinische Monatsblätter für Augenheilkunde* 1970; 157(4): 476-87.

Faulbom J: [Experimental studies on anchorage possibilities of a keratoprosthesis]. Experimentelle Untersuchungen über Verankerungsmöglichkeiten einer Keratoprothese. *Bericht Über die Zusammenkunft der Deutschen Ophthalmologischen Gesellschaft* 1972; 71:325-6.

Fedorov SN, Landshman NK, Kivaev AA, Bagrov SN: Keratoprosthesis in acute cataract and epithelial-endothelial dystrophy of the cornea. *Oftalmologicheskii Zhurnal* 1970; 25(4): 253-60.

Fenglan X, Yubao L, Xiaoming Y, Hongbing L, Li Z: Preparation and in vivo investigation of artificial cornea made of nano-hydroxyapatite/poly (vinyl alcohol) hydrogel composite. *J Mater Sci Mater Med.* 2007 Apr; 18(4):635-40.



Ferry AP, Gordon BL: Epithelialization of the anterior chamber: A complication of prosthokeratoplasty. *Arch Ophthalmol* 1974; 91:281-284.

Filatov VP: O peresadke rogovitsy. Sluchal chastichnol skvoznol peresadh (On corneal transplantation. A case of partial penetrating transplantation). *Russkil Oftal'mologicheskil Zhurnal* 1924; 3: 8, 717-743.

Filatov VP: Alloplastika pri polnykh 'beznadezhnykh' bel'makh (predvaritel'noe soobshchenie) (Alloplasty in the case of completely 'hopeless' leukomas preliminary report). *Sovetskil Vestnik Oftal'mologii* 1936; 9: 4:400-404.

Fintelmann RE, Maguire JI, Ho AC, Chew HF, Ayres BD: Characteristics of endophthalmitis in patients with the Boston keratoprosthesis. *Cornea*. 2009 Sep; 28(8): 877-8.

Fish R, Davidson RS: Management of ocular thermal and chemical injuries, including amniotic membrane therapy. *Curr Opin Ophthalmol*. 2010 May 12.

Fitton JH, Ziegelaar BW, Hicks CR, Clayton AB, Crawford GJ, Constable IJ, Chirila TV: Assessment of Anticollagenase Treatments After Insertion of a Keratoprosthetic Material in the Rabbit Cornea. *Cornea* 1998; 17(1): 108-114.

Florian AFLH, Cohn CJ: Small vessel replacement with Gore-Tex (EPTFE). *Arch Surg* 1979; 111:267-277.

Fong KC, Ferrett CG, Tandon R, Paul B, Herold J, Liu CS. Imaging of osteo-odonto-keratoprosthesis by electron beam tomography. *Br J Ophthalmol (England)*, Aug 2005, 89(8): 956-9

Franklin V, Lydon F, Evans K, Tighe B, Liu C: The development of new synthetic materials for corneal replacements. *An Inst Barraquer (Barc.)* 2001; 30:163-165.

Franklin V, et al: Aston Biomaterials research unit: a profile. *An Inst Barraquer (Barc.)* 2001; 30:225-226.

Freitas Filho E de: Osteo-odonto-queratoprotese. *Revista Portuguesa de Estomatologia e Cirurgia Maxilofacial* 1966; 7(3): 75-9.

Freyler H, Nichorlis S: Cardona keratoprosthesis as ultima ratio (author's transl). [German] *Klinische Monatsblätter für Augenheilkunde* 1975; 166(4):550-3.

Fukuda M, Hamada S, Liu C, Shimomura Y. Osteo-odonto-keratoprosthesis in Japan. *Cornea*. 2008 Sep; 27 Suppl 1:S56-61.

Fukuda M, Nakao A, Hamada S, et al. A case of severe Stevens-Johnson syndrome successfully treated by osteo-odonto-keratoprosthesis surgery. *Jpn J Ophthalmol (Japan)*, Sep-Oct 2005, 49(5): 423-4

Fyodorov SN: Alloplastika v oftal'mologii (Alloplasty in ophthalmology). In: Materialy 28 nauchnol sessii arkhangel'skogo meditsinskogo instituta (Papers of the 28th scientific session of the Arkhangelsk Medical Institute). Medical Institute, Arkhangelsk 1967; pp 44-45.



Fyodorov SN, Kivaev AA, Bagrov SN: Keratoprotezirovanie pri tyazhelykh bel'makh i endotelial'no-epitelial'nykh distrofiyakh rogovitsy (klinikoeksperimental'nye issledovaniya) (Keratoprosthetics in the case of serious leukomas and the endothelial- epithelial dystrophy of the cornea clinical and experimental researches). *Oftal'mologicheskil Zhurnal* 1970; 4:253-255.

Fyodorov SN: Zamena rogovol obolochki i khrustalika alloplasticheskim protezom (2 nablyudeniya) (Replacement of the cornea and the lens with an alloplastic prosthesis 2 observations). *Vestnik Oftal'mologii* 1970; 2:38-41.

Fyodorov SN, Zuev VK: Novyl metod ustraneniya zarastaniya opticheskogo tsilindra (New method of eliminating the overgrowth of the optic cylinder). In: Tezisy dokladov IV vsesoyuznol konferentsii v oblasti oftal'mologii (Papers of the Fourth All-Union Conference in the Field of Ophthalmology). Ministry of Health of the USSR, Moscow 1976; pp 149-150.

Fyodorov SN, Moroz ZI, Zuev VK, Glazko VI: Skvoznoe keratoprotezirovanie pri ozhogovykh i distroficheskikh bel'makh rogovol obolochki (Penetrating keratoprosthetics in the case of burn and dystrophic leukomas of the cornea). *Oftal'mologicheskil Zhurnal* 1976; 8:573-579.

Fyodorov SN: Implantatsiya iskusstvennogo khrustalika (Implantation of an artificial lens). *Meditsina*, Moscow, 1977.

Fyodorov SN, Moroz ZI, Zuev VK, Glazko VI: Rezul'taty skvoznogo keratoprotezirovaniya tyazhelykh ozhogovykh i distroficheskikh bel'm rogovol obolochki (Results of the penetrating keratoprosthetics of severe burn and dystrophic leukomas of the cornea). In: Tezisy dokladov mezhdunarodnol konferentsii po keratoplastike i keratoprotezirovaniyu (Papers of the International Conference on Keratoplasty and Keratoprosthetics). Filatov Research Institute, Odessa, 1978; pp 142-144.

Fyodorov SN, Moroz ZI, Zuev VK: Keratoprostheses. Churchill Livingstone, 1987; 1-137.

Fyodorov SN, Moroz Z, Volkova CS, Kalinnikov YY, Kovshun EV: Penetrating keratoprosthesis "Meshwork". *An Inst Barraquer (Barc.)* 1999; 28(S): 101-103

Fyodorov SN, Moroz ZI, Kalinnikov YY, Kovshun EV, Borzenok SA, Volkova OS, Miyovich OP: Penetrating keratoplasty with a corneal prosthesis complex. *An Inst Barraquer (Barc.)* 1999; 28(S): 63-64.

G

Gaebert K, Berger E, Saedler J, Weiss DG, Guthoff R: Characterization of three different cell types in human and porcine cornea. *An Inst Barraquer (Barc.)* 2001; 30: 209-211.

Galin MA, Chowchuvach E, Galin A: Tissue culture methods for testing the toxicity of ocular plastic materials. *Am J Ophthalmol* 1975; 79/4:665-669.

Galin MA, Chowchuvech E, Galin A: Tissue culture studies of contact lenses. *Ann Ophthalmol*



1976; 8(6): 669-72.

Gallemore RP, Bokosky JE: Penetrating keratoplasty with vitreoretinal surgery using the Eckardt temporary keratoprosthesis: modified technique allowing use of larger corneal grafts. *Cornea* 1995; 14(1): 33-38.

Garcia JPS, de la Cruz J, Rosen RB, Buxton DE: Imaging implanted keratoprostheses with anterior-segment optical coherence tomography and ultrasound biomicroscopy. *Cornea* 2008; 27(2): 180 – 188.

Garcia JP Jr, Ritterband DC, Buxton DF, De la Cruz J. Evaluation of the stability of Boston type I keratoprosthesis-donor cornea interface using anterior segment optical coherence tomography. *Cornea*. 2010 Sep;29(9):1031-5.

Garcia-Valenzuela E, Blair NP, Shapiro MJ, Gieser JP, Resnick KI, Solomon MJ, Sugar J: Outcome of vitreoretinal surgery and penetrating keratoplasty using temporary keratoprosthesis. *Retina* 1999; 19(5): 424-9.

Gary MD: Exceptional surgery: keratoprosthesis. *Revue de l'Infirmiere* 1994; (15): 58-63.

Gautier S, Duchesne B, Parel JM, Lacombe E, Legeais JM, Alfonso E: Porous PTFE membranes for keratoprosthesis: Comparison of intracorneal biocompatibility. *Invest Ophthalmol Vis Sci* 1996; 37(3): S316.

Gassert A, Hood J, Ellison E, Kaufman H: Ocular tolerance to cyanacrylate monomer tissue adhesive analogues. *Investigational Ophthalmology* 1970; 9: 3-11.

Gasset AR, Kaufman HE: Epikeratoprosthesis: Replacement of superficial cornea by methyl methacrylate. *Am J Ophthalmol* 1968; 66:641-645.

Gautier S, Duchesne B, Parel JM, Lacombe E, Legeais JM, Alfonso E: Porous PTFE membranes for keratoprosthesis: Comparison of intracorneal biocompatibility. *Invest Ophthalmol Vis Sci* 1996; 37(3): S316.

Gayot R: Odontologist's role in Strampelli's Osteo-Odonto-Keratoprosthesis. Medical Thesis, Clermont-Ferrand, 1981.

Geerling G, Collin JRO, Cree IA, Matheson MM, Dart JKG: Transplantation of the autologous submandibular gland for severe keratoconjunctivitis sicca in Stevens-Johnson Syndrome. *An Inst Barraquer (Barc.)* 2001; 30:125-126.

Georgalas I, Kanelopoulos AJ, Petrou P, Ladas I, Gotzaridis E: Presumed endophthalmitis following Boston keratoprosthesis treated with 25 gauge vitrectomy: a report of three cases. *Graefes Arch Clin Exp Ophthalmol*. 2010 Mar; 248(3): 447-50.

George A, Pitt WG.: Comparison of corneal epithelial cellular growth on synthetic cornea materials. *Biomaterials* 2002; 23(5): 1369- 73.

Ghaffariyeh A, Honarpisheh N, Karkhaneh A, Abudi R, Moroz ZI, Peyman A, Faramarzi A, Abasov F. Fyodorov-Zuev keratoprosthesis implantation: long-term results in patients with



multiple failed corneal grafts. *Graefes Arch Clin Exp Ophthalmol*. 2011 Jan;249(1):93-101. Epub 2010 Aug 27.

Gierkowa A, Kaminska-Olechnowiczowa B, Olechnowicz A: Perforating keratoprosthesis. I. *Klinika Oczna* 1982; 84(11): 375-7.

Gierkowa A, Kaminska-Olechnowiczowa B, Olechnowicz A: Perforating keratoprosthesis. II. *Klinika Oczna* 1982; 84(11): 379-80.

Gierek-Lapinska A, Kaminska-Olechnowicz B, Dworek-Dworkin E: Keratoprosthesis from a personal collection 15-year old material. *Klinika Oczna* 1992; 94(11-12): 359-60.

Gierek-Lapinska A, Kaminska-Olechnowicz B, Szymanski A: Chemical burns of the eyes. II. Surgical treatment. *Klinika Oczna* 1989; 91(2-3): 57-9.

Giles CL, Henderson JW: Keratoprosthesis: current status. *Am J Med Sci* 1967; 239-242.

Girard L, Wong M, Lempert P, et al: A new keratoprosthesis. In: Rycroft PV, ed. *Corneo-Plastic Surgery: Proceedings of the Second International Corneo-Plastic Conference, 1967*. Oxford, England: Pergamon Press, 1969.

Girard L, Moore C, Soner J, Bannon W: Prosthesclero-keratoplasty. Implantation of a keratoprosthesis. *Trans Am Acad Ophthalmol Otolaryngol* 1969; 73(5): 936-961.

Girard L, Hawkins R, Nieves R et al: Keratoprosthesis: a 12-year followup. *Trans Am Acad Ophthalmol Otolaryngol* 1977; 3:252-267.

Girard LJ: *Corneal Surgery: Advanced Techniques in Ophthalmic Microsurgery*. Vol II. St. Louis, Mo: CV Mosby; 1981.

Girard LJ: Keratoprosthesis. *Cornea* 1983, 2(3): 207-224.

Girard LJ: TV Taped Ophthalmological Meeting. *Cornea* 1983; 2:172.

Girard LJ: Girard keratoprosthesis with flexible skirt: 28 years experience. *Refract Corneal Surg* 1993; 9:194-195.

Gomaa A, Comyn O, Liu C: Keratoprostheses in clinical practice - a review. *Clin Experiment Ophthalmol*. 2010 Mar; 38(2):211-24.

Goossen C, Stempels N, Colpaert C, Tassignon MJ: Strampelli osteo-odonto-keratoprosthesis: case report. *Bull Soc Belge Ophthalmol* 1998; 268:129-33.

Grabner G, Hitzl W, Stoiber J, Ruckhofer J, Falcinelli G: The assessment of "long-term" success in keratoprosthesis: can the "visual acuity by time index (VATI)" give more comparable results? A proposal for a method to compare "medium- to long-term" outcome as demonstrated by the Salzburg series of osteo-odonto-keratoprosthesis (OOKP). *An Inst Barraquer (Barc.)* 2001; 30:55-58.

Green D, Lydon F, Tighe B, Liu C: A marine inspired artificial cornea. *An Inst Barraquer*



(Barc.) 2001; 30: 219-220.

Greiner MA, Li JY, Mannis MJ. Longer-Term Vision Outcomes and Complications with the Boston Type 1 Keratoprosthesis at the University of California, Davis. *Ophthalmology*. 2011 Mar 12. [Epub ahead of print]

Griffin BJ: Poly(2-hydroxyethyl methacrylate) sponges as implant materials: In vivo and in vitro evaluation of cellular invasion. *Biomaterials* 1993, 14(1): 26-38.

Griffith M, Hakim M, Shimmura S, Watsky MA, Li F, Carlsson D, Doillon CJ, Nakamura M, Suuronen E, Shinozaki N, Nakata K, Sheardown H. Artificial human corneas: scaffolds for transplantation and host regeneration. *Cornea* 2002; 21(7 Suppl): S54-61.

Grinnell F: Fibronectin adsorption on material surfaces. *An NY Acad Sci*. 1987; 516:280-290.

Gristina AG: Biomaterial-centered infection: Microbial adhesion versus tissue integration. *Science* 1987; 237:1588-95.

Griss P, von Andrian-Werberg H, Krempien B, Heimke G: Biological activity and histocompatibility of dense Al₂O₃/MgO ceramic implants in rats. *J Biomed Mater Res Symp* 1973; 4:453-462.

Griss P, Heimke G, von Andrian-Werberg H, Krempien B, Reipa S, Lauterbach HJ, Hartung HJ: Morphological and biomechanical aspects of Al₂O₃ ceramic joint replacement: experimental results and design consideration for human endoprosthesis. *J Biomed Mater Res Symp* 1975; 6:177-188.

Gross JG, Feldman S, Freeman WR: Combined penetrating keratoplasty and vitreoretinal surgery with the Eckardt temporary keratoprosthesis. *Ophthalmic Surg* 1990; 21,1:67-71.

Grusha OV: Primenenie kapronovol tkani i ivalona pri nekotorykh operatsiyakh v oftal'mologii (Use of nylon tissue and ivalon in certain operations in ophthalmology). Author's abstract of his dissertation for a candidate's degree (medicine), First Medical Institute, Moscow, 1963.

Guidoin R, Sigot M, King M, Sigot-Luizard MF: Biocompatibility of the Vascugraft: evaluation of a novel polyester urethane vascular substitute by an organotypic culture technique. *Biomaterials* 1992; 13:281-288.

Gundorova RA, Malaev AA: Novyy sposob keratoprotezirovaniya rogovitsy pri posledstviyakh ozhogov glaz (New method of corneal keratoprosthetics in the after-effects of eye burns). *Vestnik Oftal'mologii* 1975; 2: 37-40.

Gundorova RA, Malaev AA: Otdalennye rezul'taty opticheskogo keratoprotezirovaniya (Long-term results of optical keratoprosthetics). *Oftal'mologicheskil Zhurnal* 1979; 7:396-399.

Guseva O, Velichko L, Metelitsina T, Yakimenko SA: Some immunological and biochemical indices in the blood of patients with retroprosthetic membrane (RPM) after keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:127-128.

Guseva O, Velichko L, Metelitsina T, Yakimenko SA: Investigation of reasons for



retroprosthetic membrane (RPM) formation: enhancement of the optical cylinder's properties. *An Inst Barraquer (Barc.)* 2001; 30:129-131.

Gyorffy J: Acrylic corneal implant in keratoplasty. *Am J Ophthalmol* 1951; 34:757-758.

H

Haddad D: Un cas de prosthokeratoplastie selon la technique r cente de proth se en forme champignon (mushroom transcorneal keratoprosthesis. *Arch Ophthalmol* (Paris) 1972; 32:2831-836.

Ham DI, Lee JH: A tectonic keratoprosthesis using expanded polytetrafluoroethylene as a supporting skirt in humans. *Korean J Ophthalmol* 1991; 5(2): 83-7.

Harayama T: Keratoprosthesis. Acrylic optical cylinder with supporting intralamellar disk. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1965; 69(7): 699-715.

Harayama T: Keratoprosthesis--acrylic optical cylinder with supporting intralamellar disk. II. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1966; 70(6): 642-4.

Harayama T: Keratoprosthesis--acrylic optical cylinder with supporting intralamellardisk. 3. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1966; 70(6): 645-6.

Harissi-Dagher M, Beyer J, Dohlman CH: The role of soft contact lenses as an adjunct to the Boston keratoprosthesis. *Int Ophthalmol Clin.* 2008 Spring; 48(2): 43-51.

Harissi-Dagher M, Colby KA: Cataract extraction after implantation of a type I Boston keratoprosthesis. *Cornea* 2008; 27(2): 220 – 222.

Harissi-Dagher M, Dohlman CH: The Boston Keratoprosthesis in severe ocular trauma. *Can J Ophthalmol-Journal Canadien d'Ophthalmologie* 2008 43(2): 165 – 169.

Harissi-Dagher M, Khan BF, Schaumberg DA, et al.: Importance of nutrition to corneal grafts when used as a carrier of the Boston keratoprosthesis. *Cornea* 2007; 26(5): 564 – 568.

Harris JK, Rao GN, Aquavella JV, Lohman LE: Keratoprosthesis: technique and instrumentation. *Annals Ophthalmol* 1984; 16(5):481-484.

Hartmann L, Watanabe K, Zheng LL, Kim CY, Beck SE, Huie P, Noolandi J, Cochran JR, Ta CN, Frank CW. Toward the development of an artificial cornea: Improved stability of interpenetrating polymer networks. *J Biomed Mater Res B Appl Biomater.* 2011 Jul; 98(1):8-17. doi: 10.1002/jbm.b.31806. Epub 2011 Apr 18.

Hatt M: Experimental osteokeratoprosthesis. *Ophthalmol Research* 1979; 11:1, 40-51.

Hatt M: Keratoprosthesis with compact bone. *Klin Monatsbl Augenheilkd* 1979; 174(6): 792.



- Hayano S. Present and future of artificial cornea. *Ganka - Ophthalmology Jap* 1968; 10(2): 93-100.
- Hayano S: Histologic study on a human cornea with a keratoprosthesis. *Acta Soc Ophthalmol Jap* 1966; 70:8-10.
- Hayano S: Lens extraction and keratoprosthesis. Experimental study. Nippon Ganka Gakkai Zasshi - *Acta Societatis Ophthalmologicae Japonicae* 1967; 71(6): 517-9.
- Hayano S: Recent advances in keratoprostheses. Nippon Ganka Kiyo - *Bulletin of Japanese Ophthalmology* 1968; 19(12): 1347-53.
- Hefni W, Rehim MH: Keratoprosthesis. *Bull Ophthalmol Soc Egypt* 1971; 64/68:89-96.
- Heimke G, Polack FM: Keramische Keratoproththesen. In: Jaeger W, ed. *Kunststoffimplantale in der Ophthalmologie*. Verlag, Munchen; 1977: 28-35.
- Heimke G, Polack FM: Ceramic keratoprosthesis. *Bericht Uber die Zusammenkunft der Deutschen Ophthalmologischen Gesellschaft* 1978; (75): 28-35.
- Heimke G, Polack FM: Ceramic keratoprosthesis: biomechanics of extrusion in through the lid implantation. *Cornea* 1983; 2:197- 201.
- Henry YP, Zaal MJW, De Vriesknoppert WAEJ, Volker-Dieben HJ: Successful visual recovery in a patient with a severe Mooren's ulcer by scleral grafting and keratoprosthesis implantation. *An Inst Barraquer (Barc.)* 2001; 30: 89-90.
- Hernandez-Quintela E, Werner LP, Savoldelli M, Legeais JM, Renard G: Confocal Imaging in a biocompatibility study of fluorocarbon polymer implant in the rabbit cornea. *Invest Ophthalmol Vis Sci* 1998; 39(4): S1030.
- Hicks CR, Chirila TV, Dalton PD, Clayton AB, Vijayasekaran S, Crawford GJ, Constable IJ. Keratoprosthesis: preliminary results of an artificial corneal button as a full-thickness implant in the rabbit model. *Australian New Zealand J Ophthalmol* 24(3): 297-303.
- Hicks C, Crawford G, Chirila T, Wiffen S, Vijayasekaran S, Lou X, Fitton J, Maley M, Clayton A, Dalton P, Platten S, Ziegelaar B, Hong Y, Russo A, Constable I. Development and clinical assessment of an artificial cornea. *Prog Retin Eye Res (England)*, Mar 2000, 19(2) p149-70
- Hicks CR, Lou X, Platten S, Clayton AB, Vijayasekaran S, Fitton HJ, Chirila TV, Crawford GJ, Constable IJ: Keratoprosthesis results in animals: an update. *Australian New Zealand J Ophthalmol* 25:Suppl.1: S50-S52: 1997.
- Hicks CR, Fitton JH, Chirila TV, Crawford GJ, Constable IJ: Keratoprostheses: advancing toward a true artificial cornea. *Surv Ophthalmol* 1997; 42(2): 175-189.
- Hicks CR, Chirila TV, Clayton AB, Fitton JH, Vijayasekaran S, Dalton PD, Lou X, Platten S, Ziegelaar B, Hong Y, Crawford GJ, Constable IJ: Clinical results of implantation of the Chirila keratoprosthesis in rabbits. *Br J Ophthalmol*. 1998; 82: 18-25.



Hicks CR, Vijayasekaran S, Chirila TV, Platten S, Crawford GJ, Constable IJ: Implantation of PHEMA keratoprotheses after alkali burns in rabbit eyes. *Cornea* 1998; 17(3): 301-308.

Hicks CR et al, inventors. Lions Eye Institute, assignee. Method of insertion and placement of a soft hydrogel keratoprosthesis. US Pat App 1999.

Hicks CR, Crawford GJ, Chirila TV, Lou X, Vijayasekaran S, Constable IJ: Chirila keratoprosthesis: clinical trial. EVER 2000, abstract 3142. *Ophthalmic Research* 2000; 32(S2): 122.

Hicks C, Crawford G, Chirila T, Wiffen S, Vijayasekaran S, Lou X, Fitton J, Maley M, Clayton A, Dalton P, Platten S, Ziegelaar B, Hong Y, Russo A, Constable I. Development and clinical assessment of an artificial cornea. *Progress in Retinal & Eye Research* 2000; 19(2): 149-70.

Hicks CR, Crawford GJ, Chirila TV, Lou X, Platten S, Vijayasekaran S, Constable IJ: Pilot study of the Chirila keratoprosthesis in human patients. *An Inst Barraquer (Barc.)* 2001; 30: 109-111.

Hicks CR, Crawford GJ, Tan DT, Snibson GR, Sutton GL, Gondhowiardjo TD, Lam DS, Downie N. Outcomes of implantation of an artificial cornea, AlphaCor: effects of prior ocular herpes simplex infection. *Cornea* 2002; 21(7): 685-90.

Hicks CR, Crawford GJ, Lou X, Tan DT, Snibson GR, Sutton G, Downie N, Werner L, Chirila TV, Constable IJ: Corneal replacement using a synthetic hydrogel cornea, AlphaCor: device, preliminary outcomes and complications. *Eye* 2003; 17(3): 385-92.

Hicks CR, Crawford GJ: Melting after keratoprosthesis implantation: the effects of medroxyprogesterone. *Cornea* 2003; 22(6): 497- 500.

Hicks CR, Crawford GJ, Tan DT, Snibson GR, Sutton GL, Downie N, Gondhowiardjo TD, Lam DS, Werner L, Apple D, Constable IJ: AlphaCor cases: comparative outcomes. *Cornea* 2003; 22(7): 583-90.

Hicks CR, Chirila TV, Werner L, Crawford GJ, Apple DJ, Constable IJ: Deposits in artificial corneas: risk factors and prevention. *Clin Experiment Ophthalmol* 2004; 32(2): 185-91.

Hicks CR, Macvie O, Crawford GJ, Constable IJ. A risk score as part of an evidence-based approach to the selection of corneal replacement surgery. *Cornea*. 2005 Jul; 24(5):523-30.

Hicks CR, Chirila TV, Vijayasekaran S, et al.: PHEMA as a keratoprosthesis material. *Br J Ophthalmol* 2006; 90: 124 – 124.

Hicks CR, Crawford GJ, Dart JKG, et al.: AlphaCor - Clinical outcomes. *Cornea* 2006; 25(9): 1034 – 1042.

Hille K, Grabner Günther, Liu Christopher, Colliardo P, Falcinelli G, Taloni M, Falcinelli G: Standards for Modified Osteodontokeratoprosthesis (OOKP) Surgery According to Strampelli and Falcinelli- The Rome — Vienna Protocol. *Cornea* 2005; 24: 895-908.

Hille K, Landau H, Ruprecht KW: Improvement of the osteo-odonto-keratoprosthesis according to Strampelli: Influence of diameter of PMMA cylinder on visual field. *Graefes Arch Clin Exp*



Ophthalmol 1999; 237(4): 308-12.

Hille K, Landau H, Ruprecht KW: Optische Rehabilitation durch die Osteodontokeratoprothese nach Strampelli. C Ohrloff et al. (Hrsg.). 11. Kongreß der DGH 1997; pp 333-337.

Hille K, Landau H, Ruprecht KW: Visual Rehabilitation by osteo-odonto-keratoprosthesis (Strampelli). Societas Ophthalmologica Europaea: XIth Congress of the European Society of Ophthalmology. Budapest, Hungary 1-5 June 1997; pp 171-175.

Hille K, Landau H, Ruprecht KW: Optimierung der Osteodontokeratoprothese nach Strampelli: Der Einfluß des Prothesendurchmessers auf das Gesichtsfeld. C Ohrloff et al (Hrsg.). 11. Kongreß der DGH 1997; pp 411-417.

Hille K, Landau H, Ruprecht KW: Oseo-odonto-keratoprosthesis- surgical management and results. *An Inst Barraquer (Barc.)* 2001; 30:65-67.

Hille K, Landau H, Ruprecht KW: The Ahmed glaucoma valve in secondary glaucoma in oesto-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:139-141.

Hille K, Landau H, Ruprecht KW: Influence of the diameter of the PMMA cylinder on visual field in osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:193-195.'

Hille K, Landau H, Ruprecht KW. Osteo-odonto-keratoprosthesis. A summary of 6 years surgical experience. *Ophthalmologe* 2002; 99(2): 90-5.

Hille K. Keratoprothesen. Historical overview, materials and status of current research. *Ophthalmologe* 2002; 99(7): 513-22.

Hille K: Keratoprothesen. Clinical aspects *Ophthalmologe* 2002; 99(7): 523-31.

Hille K, Hille A, Ruprecht KW: Medium term results in keratoprothesen with biocompatible and biological haptic. *Graefes Arch Clin Exp Ophthalmol* 2006; 244(6): 696 – 704.

Hippel A von: Über das operative Behandlung totaler stationärer Hornhauttrübungen. *Graefes Arch Klini Exp Ophthalmol* 1877; 23:2, 79-160.

Hippel A von: Über Transplantation der Cornea. *Arch Fr Ophth* 1878; 34/2:235-256.

Hirabayashi K, Saitoh E, Ijima H, Kodama M, Hori M: Influence of length upon ePTFE graft healing and host modification of the implant. *J Biomed Mater Res* 1992; 26:1433-1447.

Hoevding G, Bertelsen T: The Bergen exchangeable, two-piece keratoprosthesis. *Refract Corneal Surg* 1993; 9(3): 201-202.

Hoffman AS, Schmer G, Harris C, Kraft WG: Covalent binding of molecules to radiation-grafted hydrogels on inert polymer surface. *Trans Am Soc Artificial Internal Organs* 1972; 18:455-461.

Hoffman F, Harnisch J, Strung V: Osteo-keramo-keratoprothexi. Eine Modification der Osteo-odonto-keratoprosthesis nach Strampelli. *Klin Monatsb Augenheilkd* 1978, 173:747-755.



Holak SA, Holak HM, Bleckmann H. AlphaCor keratoprosthesis: postoperative development of six patients. *Graefes Arch Clin Exp Ophthalmol*. 2009 Apr; 247(4): 535-9.

Hollick EJ, Watson SL, Dart JKG, et al.: Legeais BioKpro III keratoprosthesis implantation: long term results in seven patients. *Br J Ophthalmol* 2006; 90(9): 1146 – 1151.

Hosmy CA, Cain TE, Kessler FB, Anderson MS, King JW: Porous implant systems for prosthesis stabilization. *Clin Ortho Rel Res* 1972; 89:220-235.

Hruby K. First experiences with artificial cornea implants. *Klinische Monatsblätter für Augenheilkunde* 1970; 157(6): 737-42.

Hruby K: Artificial corneal implants (kerathoprotheses). *Wien Klin Wochenschr* 1980; 92/7:27-233.

Hruby K: Were keratoprosthetics a progress of failure? *Fortschr Ophthalmol* 1987; 84/2:142-143.

Huang Y, Dong Y, Wang L, Du G, Yu J, Song J, Chiang HH. Long-term outcomes of MICO keratoprosthesis in the end stage of autoimmune dry eyes: an experience in China. *Br J Ophthalmol*. 2011 Mar 31. [Epub ahead of print]

Huang Y, Yu J, Liu L, Du G, Song J, Guo H. Moscow eye microsurgery complex in Russia keratoprosthesis in Beijing. *Ophthalmology*. 2011 Jan; 118(1):41-6. Epub 2010 Sep 1.

Huang YF, Wang LQ, Wang FX. Clinical application of keratoprosthesis for corneal opacity unsuitable for keratoplasty. *Zhonghua Yan Ke Za Zhi (China)*, Oct 2003, 39(10): p578-81.

Huang YX, Li QH: An active artificial cornea with the function of inducing new corneal tissue generation in vivo-a new approach to corneal tissue engineering. *Biomed Mater*. 2007 Sep; 2(3):S121-5.

Hughes EH, Mokete B, Ainsworth G, Casswell AG, Eckstein MB, Zambarakji HJ, Gregor Z, Rosen PH, Herold J, Okera S, Liu CS: Vitreoretinal complications of osteodontokeratoprosthesis surgery. *Retina*. 2008 Oct; 28(8): 1138-45.

Hull CC, Liu CSC, Sciscio A, Eleftheriadis H, Herold J: Optical Cylinder Design to Increase the Field of Vision in the Osteo-odonto- keratoprosthesis. *Graefes Arch Clin Exp Ophthalmol* 2000; 238(12): 1002-8.

Hull CC, Edgar DF, Liu CSC, Sciscio A: Visual fields with an osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:191- 192.

Hull CC, Liu CSC, Sciscio A: Design of the osteo-odonto keratoprosthesis optic: improving the field of vision. *An Inst Barraquer (Barc.)* 2001; 30: 197-198.

Huh JH, Kim HY, Jung ES, Wee WR, Lee JH, Chung H: The first human case of Seoul-type Keratoprosthesis implantation. *Invest Ophthalmol Vis Sci* 1998; 39(4): S82.

Hutchins RK, Kaufman AH, Augsburger JJ Perfluoro-octane internal tamponade when using a



temporary keratoprosthesis during retinal detachment repair. *Retina (United States)*, Feb 2003, 23(1): 106-10

I

Iakimenko SA: Optic penetrating keratoprosthesis using new models of corneal prostheses. *Oftalmologicheskii Zhurnal* 1981; 36(2): 102-4.

Iakimenko SA: Optico-cosmetic method of keratoprosthesis. *Oftalmologicheskii Zhurnal* 1984; (8): 492-4.

Iakimenko SA: Methods for strengthening leukoma during keratoprosthesis and research on their effectiveness in follow-up. *Oftalmologicheskii Zhurnal* 1984; (7): 406-10.

Iakimenko SA: Methods for optical keratoprosthesis, the indications, potentials and results of their use. *Oftalmologicheskii Zhurnal* 1985; (3): 134-7.

Iannetti F: Twenty years follow-up of osteo-odonto-keratoprosthesis. In: Blodi F: Acta XXVth Congress Ophthalmol, Roma, Berkeley, Milano: Ghedini 1988; Vol I: 1165-1168.

Iannetti F, Liberali M: The electrodiagnostic techniques in OOK. *Ann Ottalmol Clin Ocul* 1991; 117:337-343.

Iannetti F: Rejection of OOKP for necrosis of dental support: Treatment within short and long periods. *An Inst Barraquer (Barc.)* 1999; 28(S): 81-82

Ilhan-Sarac O, Akpek EK. Current concepts and techniques in keratoprosthesis. *Curr Opin Ophthalmol (United States)*, Aug 2005, 16(4) : 246-50

Ionescu AM, de la Cruz Cardona J, González-Andrades M, Alaminos M, Campos A, Hita E, Del Mar Pérez M: UV Absorbance of a Bioengineered Corneal Stroma Substitute in the 240-400 Range. *Cornea*. 2010 May 26.

Isard PF, Dulaurent T, Regnier A. Keratoprosthesis with retrocorneal fixation: preliminary results in dogs with corneal blindness. *Vet Ophthalmol*. 2010 Sep; 13(5):279-88.

Iserle J: Alloplasty of cornea. In: Keratoplasty. *Proc Prague Symp*. Prague, 1962; pp 297-299.

Isnard N, Thevenin D, Robert L, Renard G. Tropoelastin biosynthesis by corneal cells. Epithelial inhibition of keratocyte tropoelastin biosynthesis. *Ophthalmologica*. 2004 Jan-Feb; 218(1):36-42

Itoi M, Akiyama T, Komatsu S, Niwa Y: Elastic keratoprosthesis (preliminary report). *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1965; 69(6): 578-80.

Itoi M, Gnadinger MC, Slansky HH, Freeman ML, Dohlman CH: Collagenase in the cornea. *Exp Eye Res* 1969; 8:369-373.



Iyer G, Pillai VS, Srinivasan B, Falcinelli G, Padmanabhan P, Guruswami S, Falcinelli G: Modified Osteo-Odonto Keratoprosthesis-The Indian Experience-Results of the First 50 Cases. *Cornea*. 2010 May 20.

J

Jacob-Labarre JT, Caldwell DR: Development of a partial artificial cornea for endstage corneal disease. Transactions. Thirteenth Annual Meeting of the Society for Biomaterials, New York City. 1987; Volume X: 57.

Jacob-Labarre JT, Caldwell DR: Development of a new type of artificial cornea for treatment of endstage corneal diseases. *Proc Am Chem Soc, Div Polymeric Materials: Science and Engineering*, Los Angeles 1988; Volume 59:95-99.

Jackson DW, Roper-Hall MJ: Preservation of sight after complete destruction of eyelids by burning. *Burns* 1980; 7:221-6.

Jahne N, Buttner W: Histopathological examination after implantation of an optical keratoprosthesis. *Klin Monatsbl Augenheilkd* 1984; 185/6:531-534.

Jahne MG: 25 years Cardona keratoprosthesis after severe chemical eye burns—long-term outcome of 4 eyes. *Klin Monatsbl Augenheilkd*. 2000; 216(4): 191-6.

Jarmak A, GoS R, Kapica A: Use of keratoprosthesis type "champagne cork"--case report. *Klinika Oczna* 2000; 102(5): 361-5.

John T: Artificial cornea: surgical use of Boston keratoprosthesis. *Ann Ophthalmol (Skokie)*. 2008 Spring; 40(1): 2-7.

Johnston RH, Nguyen R, Jongsareejit A, Lee BR, Patel S, Chong LP: Clinical study of combined penetrating keratoplasty, pars plana vitrectomy with temporary keratoprosthesis, and pars plana seton implant. *Retina*. 1999 19(2): 116-21.

Jongbloed WL, Van Adel P, Humalda D, Worst J: A keratoprosthesis successfully implanted in the cornea of a rabbit, a SEM-study. *Documenta Ophthalmologia* 1986; 61:359-366.

Joyaux JC: Once upon a time there was a blind. *An Inst Barraquer (Barc.)* 2001; 30: 229-231.

Jozefonvicz J, Jozefowicz M: Interactions of biospecific functional polymers with blood proteins and cells. *J Biomater Sci Polymer* 1990; 1:147-165.

Jun JJ, Siracuse-Lee DE, Daly MK, Claes H, Dohlman CH. Chapter 10: Keratoprosthesis. In: *Essentials in Ophthalmology: Cornea and External Eye Disease*. Springer Berlin Heidelberg. 2010: 137 – 144.



Kain HL: A new concept for keratoprosthesis [German]. *Klin Monatsbl Augenheilkd* 1990; 197(5):386-92.

Kain H: The development of the silicone-carbon keratoprosthesis. *Refract Corneal Surg* 1993; 9: 209-210.

Kalinnikov YY, Moroz ZI, Leontieva GD, Novikov SV, Bagrov SN, Ronkina TI, Vasin VI, Kovshun EV, Volkova OS, Fyodorov SN: Clinical results of biokeratoprosthesis for leukomas. *An Inst Barraquer (Barc.)* 2001; 30:77-81.

Kalinnikov YY, Moroz ZI, Leontieva GD, Novikov SV, Bagrov SN, Ronkina TI, Vasin VI, Kovshun EV, Kolkova OS, Fyodorov SN: Artificial cornea on the basis of donor tissues and a polymer manufacture, structure and healing in the rabbit eye. *An Inst Barraquer (Barc.)* 2001; 30: 171-175.

Kalinko AI: Voprosy optiki alloplastiki rogovol obolochki (Questions of the optics of corneal alloplasty). In: Vosstanovitel'nava alloplastika v oftal'mologii (Restorative Alloplasty in Ophthalmology). *Meditsina*, Moscow, 1973; pp 103-107.

Kaminska-Olechnowicz B, Wojciechowska R, Blazewicz S, Powroznik A: Use of a new model of keratoprosthesis made from carbon in treatment of dense leukoma after ocular burns. *Klinika Oczna* 1992; 94(7-8): 201-2.

Kaminska-Olechnowicz B, Forminska-KapuScik M, Leszczynski R: Use of Nd:YAG laser for disruption of retrocorneal membranes in eyes with implanted keratoprosthesis. *Klinika Oczna* 1997; 99(2): 91-3.

Kaminska-Olechnowicz B, Leszczynski R, Dworek-Dworkin E, Piatek-Koronowska G, Sosnierz-Jupowiecka A: Eye with implanted keratoprosthesis in ultrasound biomicroscopy. *Klinika Oczna* 1999; 101(6): 423-6.

Kaminski S, Lacombe E, Duchesne B, Fernandez V, Lamar P, Hommer A, Lee W, Alfonso E, Parel JM: Eine neue, nicht penetrierende synthetische Hornaut [A new non-penetrating synthetic cornea]. *Spektrum Augenheilkunde* 2001; 15:134-136.

Kanoff JM, Colby K. Pigmented deposits on a Boston keratoprosthesis from topical ibopamine. *Cornea*. 2010 Sep;29(9):1069-71.

Kanunska-Olechnowicz B, Wojciechowska R, Blazewicz S, Powroznik A: Use of a new model of keratoprosthesis made from carbon in treatment of dense leukoma after ocular burns. *Klinika Oczna* 1992; 94(78): 201-2.

Karkhaneh A, Mirzadeh H, Ghaffariyeh AR: Simultaneous graft copolymerization of 2-hydroxyethyl methacrylate and acrylic acid onto polydimethylsiloxane surfaces using a two-step plasma treatment. *J Appl Polymer Sci* 2007; 105(4): 2208 – 2217.



Karkhaneh A, Mirzadeh H, Ghaffariyeh A, Ebrahimi A, Honarposheh N, Hosseinzadeh M, Heidari MH. Novel materials to enhance corneal epithelial cell migration on keratoprosthesis. *Br J Ophthalmol*. 2011 Mar;95(3):405-9. Epub 2010 Jul 31.

Kaufman HE, Casset AR: Clinical experience with the epikerato prosthesis. *Am J Ophthalmol* 1969; 67: 38.

Kaufman HE, McDonald MB, Barron BA, Wilson SE, Wright KW, Ryan SJ: Corneal and refractive surgery. Color atlas of ophthalmic surgery series. J.B. Lippincott Co., Philadelphia, 1992; 337p.

Khalifa YM, Davis D, Mamalis N, Moshirfar M. Epithelial growth over the optic surface of the type 1 Boston Keratoprosthesis: histopathology and implications for biointegration. *Clin Ophthalmol*. 2010 Oct 5; 4:1069-71.

Khalifa YM, Moshirfar M. Improved centration of the type 1 Boston Keratoprosthesis in donor carrier tissue. *Clin Ophthalmol*. 2010 Aug 19;4:931-3.

Khan B, Dudenhofer EJ, Dohlman CH: Keratoprosthesis: an update. *Curr Opin Ophthalmol* 2001; 12(4): 282-7.

Khan BF, Harissi-Dagher M, Pavan-Langston D, et al.: The Boston keratoprosthesis in herpetic keratitis. *Arch Ophthalmol* 2007; 125(6): 745 – 749.

Khoury AS, Vaccaro A, Zarbin MA, Chu DS: Clinical results with the use of a temporary keratoprosthesis in combined penetrating keratoplasty and vitreoretinal surgery. *Eur J Ophthalmol*. 2010 Apr 22.

Kim HC: The experimental Seoul-type keratoprosthesis. *Korean J Ophthalmol* 1992; 6(2): 55-61.

Kim MK, Lee SM, Lee JL, et al.: Long-term outcome in ocular intractable surface disease with Seoul-type keratoprosthesis. *Cornea* 2007; 26(5): 546 – 551.

Kim MK, Park IS, Park HD, Wee WR, Lee JH, Park KD, Kim SH, Kim YH: Effect of poly(ethyleneglycol) graft polymerization of poly(methylmethacrylate) on cell adhesion. In vitro and in vivo study. *J Cataract & Refract Surg* 2001; 27(5): 766-74.

Kim MK, Lee JL, Wee WR, Lee JH. Seoul-type keratoprosthesis: preliminary results of the first 7 human cases. *Archives of Ophthalmology* 2002; 120(6): 761-6.

Kim MK, Lee JL, Wee WR, Lee JH: Comparative experiments for in vivo fibroplasia and biological stability of four porous polymers intended for use in the Seoul-type keratoprosthesis. *Br J Ophthalmol* 2002; 86(7): 809-14.

Kim MS. Rhee SW: Effects on the surrounding tissues and morphological changes of components after implantation of PMMA and heparin surface modified PMMA intraocular lens in rabbit eyes. *Korean J Ophthalmol* 1990; 4(2): 73-81.

Kim SZ, Kim HS, Lee KS, Lee SJ, Seul KH, Koh GY, Cho KW, Kim SH. Coexistence of C-type



natriuretic peptide and atrial natriuretic peptide systems in the bovine cornea. *Invest Ophthalmol Vis Sci*. 2000 Aug; 41(9):2671-7.

Kirkham SM, Dangel ME: The keratoprosthesis: Improved biocompatibility through design and surface modifications. *Ophthalmic Surg* 1991; 22:455-461.

Kita M, Ogura Y, Honda Y, Hyon SH, Cha W, Ikada Y: Evaluation of polyvinyl alcohol hydrogel as a soft contact lens material. *Graefes Arch Clin Exp Ophthalmol* 1990; 228(6): 533-7.

Klenkler BJ, Chen H, Chen Y, Brook MA, Sheardown H: A high-density PEG interfacial layer alters the response to an EGF tethered polydimethylsiloxane surface. *J Biomater Sci Polym Ed*. 2008; 19(11): 1411-24.

Klenkler BJ, Dwivedi D, West-Mays JA, Sheardown H: Corneal epithelial cell adhesion and growth on EGF-modified aminated PDMS. *J Biomed Mater Res A*. 2010 Jun 1; 93(3): 1043-9.

Klenkler BJ, Griffith M, Becerril C, West-Mays JA, Sheardown H: EGF-grafted PDMS surfaces in artificial cornea applications. *Biomaterials*. 2005 Dec; 26(35): 7286-96.

Klim M: Znachenie zadnikh dlennykh tsiliarnykh arterii dlva pitaniya rogovoi obolochki (Significance of the long posterior ciliary arteries in corneal nutrition). *Vestnik Oftal'mologii* 1962; 1: 21.

Klufas MA, Colby KA. The Boston keratoprosthesis. *Int Ophthalmol Clin*. 2010 Summer;50(3):161-75.

Knowles W: Effect of intralamellar plastic membranes of corneal physiology. *Am J Ophthalmol* 1961; 51:274-284.

Kobayashi H, Kato M, Taguchi T, et al.: In vivo evaluation of corneal epithelium stability on collagen-immobilized PVA and amniotic- membrane hybridized PVA as an artificial cornea. *Tissue Engineering* 2006; 12(4): 1098 – 1099.

Kogure S, Kohwa H, Tsukahara S: Effect of uncompensated corneal polarization on the detection of localized retinal nerve fiber layer defects. *Ophthalmic Research* 2008; 40(2): 61 – 68.

Kompa S, Langefeld S, Kirchof B, Klee D, Schrage NF: The Aachen-Keratoprosthesis - A case report of the first temporary application. *Invest Ophthalmol Vis Sci* 1999; 40(4): S638.

Kompa S, Langefeld S, Kirchof B, Brenman K, Schrage N: Aachen-Keratoprosthesis as temporary implant. Case report on first clinical application. *Int J Artif Organs*. 2000; 23(5): 345-8.

Kompa S, Redbrake C, Langefeld S, Brenman K, Schrage N: The Type II Aachen Keratoprosthesis in humans: case report of the first prolonged application. *Int J Artif Organs*. 2001; 24(2): 110-4.

Kompa S, Langefeld S, Kirchof B, Brenman K, Schrage N: Aachen-keratoprosthesis as temporary implant. Case report on first clinical application. *An Inst Barraquer (Barc.)* 2001;



30:201-202.

Kostyukova TD, Moroz ZI: Popytka primeneniya beta-terapii epitelial'nogo razrostaniya pri keratoprotezirovani (Attempt to use beta therapy to treat epithelial growth in keratoprosthesis). In: Radioaktivnye izotopy v oftal'mologii (Radioactive isotopes in ophthalmology). *Zdorov'e*, Kiev, 1974; 170.

Kozarsky A, Knight SH, Waring GO: Clinical results with a ceramic keratoprosthesis placed through the eyelid. *Ophthalmology* 1987; 94,8:904-911.

Krasnov MM, Orlova EM: Initial experience in implanting an artificial cornea (alloplastic keratoprosthesis). *Vestnik Oftalmologii* 1967; 80(6): 11-6.

Krasnov MM, Gundorova RA, Orlova EM: Alloplastika rogovitsy (Corneal alloplasty). In: Materialy 2-go Vserossiiskogo s"ezda oftal'mologov (Papers of the Second All-Russia Congress of Ophthalmologists). *Meditina*, Moscow, 1968; pp 422-423.

Krasnov MM: (Primenenie plasticheskikh mass v glaznoi khirurgii (po materialam zarubezhnoy literatury) (Use of plastics in eye surgery review of foreign sources). *Vestnik Oftalmologii* 1969; 1:21-27.

Krasnov MM: Opokazaniyakh k perforiruyushchei i neperforiruyushchel alloplastike rogovitsy (On the indications for perforating and nonperforating alloplasty of the cornea). *Oftal'mologicheskii Zhurnal* 1970; 4:260-262.

Krasnov MM, Udintsov BE: Autoallokeratoplastika (rekonstruktivnaya autotransplantatsiya khryashcha, nadkostnitsy i sklery kak osnovy dlya keratoprotezirovaniya) (Autoallokeratoplasty reconstructive autotransplantation of the cartilage, the periosteum and the sclera as the basis of keratoprosthesis). *Vestnik Oftal'mologii* 1975; 1:35-39.

Krasnov MM: Autoplastika rogovitsy khryashchom i slizistoi s guby kak osnova dlya keratoprotezirovaniya (Autoplasty of the cornea with cartilage and lip mucosa as the basis for keratoprosthesis). In: Sbornik nauchnykh rabot. Mikrokhirurgiya glaza. Pervyi s"ezd oftal'mologov respublik zakavkaz'ya (Collection of scientific works. Eye Microsurgery. First Congress of Ophthalmologists of the Transcaucasian Republics). Medical Institute, Tbilisi, 1976; pp 22-26.

Krasnov MM: Auto-allo-keratoplasty (with special reference to chondrokeratoprosthesis procedure). *Klinische Monatsblätter für Augenheilkunde* 1976; 168(05): 651-4.

Krasnov MM, Udintsov BE, Malaeva LV: Rezul'taty skvoznogo autokhondrokeratoprotezirovaniya i osobennosti posleoperatsionnogo vedeniya bol'nykh (Results of penetrating autochondrokeratoprosthesis and the specifics of the postoperative care of patients). In: Tezisy dokladov mezhdunarodnoi konferentsii po keratoplastike i keratoprotezirovaniyu (Papers of the International conference on Keratoplasty and Keratoprosthesis). Filatov Research Institute, Odessa, 1978; pp 132-135.

Krasnov MM, Udintsov BE, Malaeva LV: Otdalennye rezul'taty skvoznogo autokhondrokeratoprotezirovaniya (Long-term results of penetrating autochondrokeratoprosthesis). *Oftal'mologicheskii Zhurnal* 1978; 7:392-394.



Krasnov MM, Znaigirova TT, Udintsov BE, Malaeva LV: Alloplasticheskie metody keratoprotezirovaniya (Alloplastic methods of keratoprosthesis). In: Rekonstruktivnaya oftal'mokhirurgiya (Reconstructive Ophthalmosurgery). *Meditcina*, Moscow, 1979; pp 7-11.

Krasnov MM, Udintsov BE, Labash M: A new technique of penetrating keratoprosthesis. (The simultaneous implantation of a keratoprosthesis with retrocorneal autochondrokeratoplasty). *Vestn Oftalmol* 1984; 5:31-34.

Krause A: Intracorneal tolerance of glass ceramics. *Contactologia* 1992; 14,:1:28-31.

Krejci L, Brettschneider I, Jedlicka K: Hydrogel keratoprosthesis as a single-stage operation. *Cesk Oftalmol* 1981; 37:270-277.

Krug A, Kompa S, Schrage NF: The Aachen-keratoprosthesis--a flexible KPro that permits intraocular pressure measurement. *Int J Artif Organs* 2002; 25(3): 238-42.

Krwawicz T: New plastic operation for correcting the refractive error of aphakic eyes by changing the corneal curvature: preliminary report. *Brit J Ophthalmol* 1961; 45:59-63.

Krwawicz L. Experimental inhibition of collagenolysis by application of low temperature in the process of rejection of artificial cornea (author's transl). *Klinika Oczna* 1980; 82(1): 11-2.

Kuhn F, Witherspoon CD, Morris RE: Endoscopic surgery vs temporary keratoprosthesis vitrectomy. *Arch Ophthalmol* 1991; 109,6:768.

Kumar RS, Tan DT, Por YM, Oen FT, Hoh ST, Parthasarathy A, Aung T: Glaucoma management in patients with osteo-odonto-keratoprosthesis (OOKP): the Singapore OOKP Study. *J Glaucoma*. 2009 Jun-Jul; 18(5):354-60.

L

Lacombe E: Possibilites actuelles des keratoprotheses. *J Fr Ophthalmol* 1986; 9(4): 323-329.

Lacombe E: Keratoprothese a fixation posterieure. *J Fr Ophtalmol* 1991, 14(2): 81-86.

Lacombe E: A Novel posterior fixation keratoprosthesis. In: Parel JM, ed. *Ophthalmic Technologies II*. Proc SPIE, Bellingham WA, 1992; Vol 1644:100-107.

Lacombe E: Keratoprosthesis by posterior fixation: A 2-year follow-up. (ARVO abstract) *Invest Ophthalmol Vis Sci* 1992; 33(4): 992.

Lacombe E: A novel posterior fixation keratoprosthesis. *An Inst Barraquer (Barc)* 1993-94; 24:119-125.

Lacombe E: Keratoprothese a fixation retro-corneenne. 1st Int Ophthalmol Symp, Bordeaux;



Book of Abstracts, 1993; p.110.

Lacombe E: Keratoprosthesis by retrocorneal fixation: Results in 30 eyes over 3 years. *Refract Corneal Surg* 1993; 9:199-200.

Lacombe E: Résultats de 30 kératoprothèses à fixation postérieure. *J Fr Ophthalmol* 1993; 16(8-9): 426-434.

Lacombe E, Parel J-M: Retrocorneal Fixation Keratoprosthesis: Analysis of 59 Patients with up to 7 years of follow-up. *Invest Ophthalmol Vis Sci* 1997; 38(4): S131.

Lacombe E, Joyaux JC, Riss I, Duchesne B, Tahi H, Parel JM: Posterior Fixation Keratoprosthesis with Biocolonizable Seal: 6 Years and 47 Patients. *Invest Ophthalmol Vis Sci* 1999; 40(4): S637.

Lacombe E: Keratoprosthesis with retrocorneal fixation. Results of 60 cases with up to 6 years follow-up. *An Inst Barraquer (Barc.)* 1999; 28(S): 115-116.

Lacombe E: All PMMA-CQ Retroprosthetic fixation keratoprosthesis at 10 years. *An Inst Barraquer (Barc.)* 2001; 30:47-49.

Lacombe E: Role of Hydromechanical fixation in haptic biocolonization. *An Inst Barraquer (Barc.)* 2001; 30:103-107.

Lacombe E, Joyaux JC, Riss I, Duchesne B, Tahi H, Parel JM: Posterior fixation keratoprosthesis with biocolonizable seal: 6 years, 47 patients. *An Inst Barraquer (Barc.)* 2001; 30: 205-206.

Lagrand J, Baron A: Protheses corneennes et cristalliniennes en matiere plastique. *Bull Mem Soc Fr Ophthalmol* 1954; 67:386- 391.

Lai JY, Hsiue GH: Functional biomedical polymers for corneal regenerative medicine. *Reactive & Functional Polymers* 2007; 67(11): 1284 – 1291.

Laibson PR: Current concepts and techniques in corneal transplantation. *Curr Opin Ophthalmol* 2002; 13(4): 220-3.

Lakimenko S, Buznyk O, Shchypun S. Treatment of post-burn persistent corneal ulcers with excimer laser phototherapeutic keratectomy. Prospective clinical trial. *Klin Oczna.* 2010;112(7-9):195-200.

Lakimenko S, Buznyk O, Shchypun S, Dumbrova N, Molchanyuk N. Healing of alkali burned rabbit corneas with persistent superficial ulceration after excimer laser phototherapeutic keratectomy. Clinical and electron microscopic findings. *Klin Oczna.* 2010;112(7-9):187-94.

Lam FC, Liu C. The future of keratoprotheses (artificial corneae). *Br J Ophthalmol.* 2011 Mar; 95(3):304-5.

Lamberts DW, Grandon SC: A new alloplastic material for ophthalmic surgery. *Ophthalmic Surg* 1978; 9(6): 35-42.



Langan EA, Liu C, Ogden S, Griffiths CE. A tooth for an eye: cicatricial pemphigoid and the osteo-odonto-keratoprosthesis. *Arch Dermatol*. 2010 Oct;146(10):1188-9.

Langefeld S, Numan CJ, Von Fischern T, Kee D, Muys L, Reim M, Kirchof B, Schrage NF: Accelerating tissue adhesion to the haptic of the Aachen-keratoprosthesis. *Invest Ophthalmol Vis Sci* 1998; 39(4): S82.

Langefeld S, Volcker N, Kompa S, von Fischern T, Bienert H, Klee D, Hocker H, Reim M, Schrage NF: Functionally adapted surfaces on a silicone keratoprosthesis. *Int J Artif Organs* 1999; 22(4): 235-41.

Langefeld S, Kompa S, Redbrake C, Brenman K, Kirchof B, Schrage NF: Aachen keratoprosthesis as temporary implant for combined vitreoretinal surgery and keratoplasty: report on 10 clinical applications. *Graefes Arch Clin Exp Ophthalmol* 2000; 238(9):722-6.

Langefeld S, Kompa S, Redbrake C, Brenman K, Reim M, Kirchof B, Schrage NF: Prolonged application of the Aachen keratoprosthesis in humans. *An Inst Barraquer (Barc.)* 2001; 30: 113-116.

Latkany R, Tsuk A, Sheu M-S, Loh I-H, Trinkas-Randall V: Plasma surface modification of artificial corneas for optimal epithelialization. *J Biomed Mater Res* 1997; 36:29-37.

Lecaillon-Thibon MB. Cryotherapy and artificial cornea (scleral lenses and contact lenses). *Bulletin des Societes d Ophthalmologie de France* 1972; 72(5): 589-90.

Lee H, Khan R, O'Keefe M: Aniridia: current pathology and management. *Acta Ophthalmol*. 2008 Nov; 86(7): 708-15.

Lee H, Meyers K, Lanigan B, O'Keefe M. Complications and visual prognosis in children with aniridia. *J Pediatr Ophthalmol Strabismus*. 2010 Jul-Aug; 47(4):205-10; quiz 211-2. doi: 10.3928/01913913-20090818-07. Epub 2009 Aug 21.

Lee JH, Choi YS, Choi DG, Kim HY, Chung ES, Wee WR: Seoul type keratoprosthesis by ab interno scleral suture fixation with amniotic membrane coverage in rabbit. *Invest Ophthalmol Vis Sci* 1997; 38(4): S132.

Lee JH, Wee WR, Chung ES, Kim HY, Park SH, Kim YH: Development of a newly designed double-fixed Seoul-type keratoprosthesis. *Arch Ophthalmol* 2000; 118:1673-1678.

Lee RM, Al Raqqad N, Goma A, Steel DH, Bloom PA, Liu CS. Endoscopic cyclophotocoagulation in osteo-odonto-keratoprosthesis (OOKP) eyes. *J Glaucoma*. 2011 Jan; 20(1):68-9; author reply 69.

Lee S-D, Hsiue G-H, Kao C-Y, Chang P C-T: Artificial cornea: surface modification of silicone rubber membrane by graft polymerization of pHEMA via glow discharge. *Biomaterials* 1996; 17(6): 587-595.

Lee S-D, Hsiue G-H, Chang P C-T, Kao C-Y. Plasma-induced grafted polymerization of acrylic acid and subsequent grafting of collagen onto polymer film as biomaterials. *Biomaterials* 1996;



17(16): 1599-1607.

Lee SD, Hsiue GH, Kao CY, Chang PCT: Artificial cornea: surface modification of silicone rubber membrane by graft polymerization of pHEMA via glow discharge. *Biomaterials* 1996; 17(6): 587-594.

Lee SM, Kim MK, Oh JY, Heo JW, Shin MS, Lee MS, Wee WR, Lee JH: Endoscopic vitrectomy improves outcomes of Seoul-type keratoprosthesis exchange in rabbit model. *Invest Ophthalmol Vis Sci*. 2008 Oct; 49(10): 4407-11.

Legeais JM, Renard G: Keratoprosthesis: study of an expanded polytetrafluoroethylene support. *J Fr Ophtalmol* 1987; 10(6-7): 425- 33.

Legeais JM, Renard G, Salvoldelli M, Keller N: Etude de la colonisation tissulaire du polytÈtrafluoroÈthylene expansÈ en cornÈe saine en vue de son utilisation comme support de kÈratoprothÈse. *J Fr Ophtalmol* 1988; 11:727-736.

Legeais JM, Renard G, Savoldelli M, Keller N: Fibrovascular ingrowth of expanded polytetrafluoroethylene skirt in keratoprosthesis. *J Fr Ophtalmol* 1988; 11:727-732.

Legeais JM, Renard G, Rossi C, Salvoldelli M, DiHermies F, Pouliquen Y: Kerathoprosthesis: A comparative study of three different microporous polymer and first application in human eyes. *Invest Ophthalmol Vis Sci* 1991; 32(4): 778.

Legeais JM, Rossi C, Renard G, Savoldelli M, D'Hermies F, Pouliquen Y: A new Fluorocarbon for keratoprosthesis. *Cornea* 1992; 11:538-545.

Legeais JM, Renard G, Parel JM, Simon G, Pouliquen Y: Artificial cornea. Cellular ingrowth and transparency of an expanded polytetrafluorethylene. In: Parel JM, ed. *Ophthalmic Technologies II*. Proc SPIE, Bellingham WA, 1992; Vol 1644:108-114.

Legeais JM, Renard G, Parel JM, Mui MM, Tseng SCG, Simon G, Pouliquen Y: Effects of pore diameter on corneal ingression patterns in expanded polytetrafluoroethylene. *Invest Ophthalmol Vis Sci*.1992; 33(S): 992.

Legeais JM: Keratoprosthesis. Artificial cornea. *Revue du Praticien* 1992; 42(9): 1125-7.

Legeais JM, Renard G, Pouliquen Y: A Novel Colonizable Keratoprosthesis. *Refract Corneal Surg* 1993; 9:205-206.

Legeais JM, Renard G, Parel J-M, Serdarevic O, Mui MM, Pouliquen Y: Expanded fluorocarbon for keratoprosthesis cellular ingrowth and transparency. *Experimental Eye Research* 1993; 58:41-52.

Legeais JM, Renard G, Parel JM, Pouliquen Y: Expanded polyterafluoroethylene for keratoprosthesis skirt: Transparency and biocompatibility. *Refract Corneal Surg* 1993; 9:204-205.

Legeais JM, Renard G, Pouliquen Y: Keratoprothese a support biocolonisable. *J Fr Ophtalmol* 1993; 16(11): 577-583.



Legeais JM, Renard G, Pouliquen Y: Novel biocolonizable intrastromal keratoprosthesis. First year study in human. *Invest Ophthalmol Vis Sci* 1993; 34(Suppl): 1367.

Legeais J-M, Renard G, Parel J-M, Savoldelli M, Pouliquen Y: Biocolonizable keratoprosthesis with a microporous fluorocarbon skirt: a two year study. *Ophthalmic Technologies IV*, J-M Parel, Q. Ren, ed. Proc SPIE, Bellingam WA, 1994; Vol 2126:pp.360-365.

Legeais JM, Renard G, Parel JM, Serdarevic O, Mei Mei-Mui, Pouliquen Y: Expanded Fluorocarbon polymer for keratoprosthesis. Cellular ingrowth and transparency. *Exp Eye Res* 1994; 58:41-51.

Legeais JM, Renard G, Parel JM, Savoldelli M, Pouliquen Y: Keratoprosthesis with Biocolonizable Microporous Fluorocarbon Haptic: Two Year Study on 24 Patients. *Arch Ophthalmol* 1995; 113:757-763.

Legeais JM, Renard G, Thevenin D, Pouliquen Y: Advances in artificial corneas. ARVO abstract. *Invest Ophthalmol Vis Sci* 1995; 36(4): S314.

Legeais JM, Briat B, Drubaix I, Thevenin D, Savoldelli M, Renard G, Pouliquen Y: A second generation of biointegrable keratoprosthesis. First in vivo evaluation. *Invest Ophthalmol Vis Sci* 1996; 37(3): S316.

Legeais J-M, Drubaix I, Briat B, Salvoldeli M, Menasche, Robert L, Renard G, Pouliquen Y: Influence of ePTFE polymer implant permeability on the rate and density of corneal extracellular matrix synthesis. *J Biomed Mater Res* 1997; 36: 49-54.

Legeais JM, Drubaix I, Mayer F, Savoldelli M, Renard G: A second generation of biointegrable keratoprosthesis. First human cases. *Invest Ophthalmol Vis Sci* 1997; 38(4): S131.

Legeais JM, Rol P, Briat B, Caputo G, Jarry D, Mashhour B, Chauvaud D, Pouliquen Y, Renard G: Rigid endoscope with Gradient- index lenses. Preliminary studies. *Journal Francais d Ophthalmologie* 1997; 20(6): 439-43.

Legeais JM, Drubaix I, Briat B, Renard G, Pouliquen Y: 2nd generation bio-integrated keratoprosthesis. Implantation in animals. *Journal Francais d Ophthalmologie* 1997; 20(1): 42-8.

Legeais JM, Renard G: A second generation of artificial cornea (Biokpro II). *Biomaterials* 1998; 19(16): 1517-22.

Legeais JM, Ellies PD, Dighiero P, Renard G: Phacoemulsification in a patient with an artificial cornea. *Arch Ophthalmol* 1999; 117(12): 1669.

Legeais JM, Renard G, Pouliquen Y: A second generation of biointegrable keratoprostheses. *An Inst Barraquer (Barc)* 1999; 28(S): 57-58.

Legeais JM, Renard G: A second generation of artificial cornea with soft optical system: first human investigation. *An Inst Barraquer (Barc.)* 2001; 30: 101-102.

Legrand J, Baron A: Protheses corneennes et crystalliniennes en matiere plastique. *Bull Mem*



Soc Fr Ophtalmol 1954; 67:386-391.

Leon CR, Barraquer JJ, Barraquer JI: Coralline Hydroxyapatite Keratoprosthesis in Rabbits. *J Refract Surg* 1997; 13: 74-78.

Leon CR, Barraquer JI (Jr.), Barraquer JI: Coralline hydroxyapatite keratoprosthesis; first human case. *An Inst Barraquer (Barc.)* 2001; 30:183-186.

Leibowitz HM, Trinkaus-Randall V, Tsuk A, Franzblau C: Progress in the development of a synthetic cornea. In *Progress in Retinal and Eye Res* 1994; 13(2):605-621.

Li F, Carlsson D, Lohman C, Suuronen E, Vascotto S, Kobuch K, Sheardown H, Munger R, Nakamura M, Griffith M: Cellular and nerve regeneration within a biosynthetic extracellular matrix for corneal transplantation. *PNAS* 2003; 100:15346-15351.

Li F, Griffith M, Li Z, Tanodakaew S, Sheardown H, Hakim M, Carlsson DJ. Recruitment of multiple cell lines by collagen-synthetic copolymer matrices in corneal regeneration. *Biomaterials*. 2005 Jun; 26(16):3093-104.

Li JY, Greiner MA, Brandt JD, Lim MC, Mannis MJ. Long-term Complications Associated with Glaucoma Drainage Devices and Boston Keratoprosthesis. *Am J Ophthalmol*. 2011 May 31. [Epub ahead of print]

Li L, Ellis KR, Behrens A, Sweet PM, Chuck RS. A laboratory model for microkeratome-assisted posterior lamellar keratoplasty utilizing a running graft suture and a sutureless hinged flap. *Cornea*. 2002 Mar; 21(2):192-5.

Li L, Zhou J, Wang XM, Wang XP, Cui FZ, Lu YJ, Huang YF. [Biocompatible study of modified titanium skirt for keratoprosthesis]. *Zhonghua Yan Ke Za Zhi*. 2010 Sep;46(9):815-20. Chinese.

Liang D, Chen J, Li Y, Lin J, Chen Z: Expanded polytetrafluoroethylene with different pore diameter for keratoprosthesis cell ingrowth and corneal metabolism. *Yan Ke Xue Bao* 1999; 15(4): 246-9, 264.

Liaricos S: Results of Cardona's nut and bolt keratoprosthesis in severe affections of the cornea. *Bull Mem Soc Fr Ophtalmol* 1978; 90:231-236.

Lieb W, Geerats W: Die verwendung plastischen Materials in der Augen Chirurgie. *Klin Monatsb Augenheilkd* 1958; 133:305-342.

Lindahl KJ, Temnycky GO, Aquavella JV: Complications of keratoprosthesis spontaneous unscrewing of optical cylinder: a case report [letter]. *Cornea* 1992; 11(2): 183.

Linnola RJ, Happonen RP, Vedel E, Yli-Urpo AU, Krause U, Laatikainen L: Titanium and Bioactive Glass-ceramic Coated Titanium as Materials for Keratoprosthesis. *Exp Eye Res* 1996; 63:474-478.

Linnola RJ: Sandwich theory: bioactivity-based explanation for posterior capsule opacification.



Journal of Cataract & Refractive Surgery 1997; 23(10): 1539-42.

Liu C, Tighe B: Striving for the perfect Keratoprosthesis. *Br J Ophthalmol* 1998; 82(1): 3-4.

Liu C, Sciscio A, Smith G, Pagliarini S, Herold J: Indications and technique of modern Osteo-odonto-keratoprosthesis (OOKP) surgery. *Eye News* 1998; 5: 17-22.

Liu C, Herold J, Sciscio A, Smith G, Hull C: Osteon-odonto-keratoprosthesis surgery. *Br J Ophthalmol* 1999; 83(1): 127.

Liu C, Hille K, Tan D, Hicks C, Herold J: Keratoprosthesis surgery. *Dev Ophthalmol*. 2008; 41: 171-86.

Liu C, Tighe B: The properties of the ideal keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 155-156.

Liu C, Herold J, Sciscio A, Smith G, Hull C: Osteo-odonto-keratoprosthesis surgery. *Br J Ophthalmol* 1999; 83(1): 127.

Liu C, Okera S, Tandon R, Herold J, Hull C, Thorp S: Visual rehabilitation in end-stage inflammatory ocular surface disease with the osteo-odonto-keratoprosthesis: results from the UK. *Br J Ophthalmol*. 2008 Sep; 92(9):1211-7.

Liu C, Pagliarini: Independent survey of long term results of the Falcinelli osteo-odonto-keratoprosthesis (OOKP). *An Inst Barraquer (Barc.)* 1999; 28(S): 91-93.

Liu C, Paul B, Tandon R, et al. The osteo-odonto-keratoprosthesis (OOKP). *Semin Ophthalmol (United States)*, Apr-Jun 2005, 20(2): 113-28

Liu C: OOKP surgery: Where are we going from here? EVER 2000, abstract 3143. *Ophthalmic Research* 2000; 32(S2): 122.

Liu DW, Zou P: Reconstruction of actively artificial cornea using tissue engineering technology. *Tissue Engineering* 2006; 12(4): 1099 – 1099.

Liu H, Zhang W, Pan Z, Wu Y: Experimental study on the treatment of corneal melting after alkali burn with GM 6001. *Zhonghua Yan Ke Za Zhi* 2002; 38(9): 539-42.

Liu L, Kuffova L, Griffith M, et al.: Immunological responses in mice to full-thickness corneal grafts engineered from porcine collagen. *Biomaterials* 2007; 28(26): 3807 – 3814.

Liu L, Sheardown H. Glucose permeable poly (dimethyl siloxane) poly (N-isopropyl acrylamide) interpenetrating networks as ophthalmic biomaterials. *Biomaterials*. 2005 Jan; 26(3):233-44.

Lloyd AW, Faragher RG, Denyer SP: Ocular biomaterials and implants. *Biomaterials* 2001; 22(8): 769-85.

Lloyd AW, Sandeman S, Faragher R, Liu C: In Vitro bioevaluation of novel KPro materials. EVER 2000, abstract 3146. *Ophthalmic Research* 2000; 32(S2) :123.



Lopez V, Fernandez C, Temprano, Y Salmeron: Osteo-odonto-keratoprosthesis in alkali corrosiveness. *An Soc Ergof Esp* 1981; 10(2): 131-139.

Lou X, Chirila TV, Clayton AB: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. IV. Novel synthetic routes to hydroxyl- containing crosslinking agents and their effect on the mechanical strength of sponges. *Int. J. Polymeric Mater.* 1997; 37(1/2): 1- 14.

Lou X, Vijayasekaran S, Chirila TV, Maley MA, Hicks CR, Constable IJ: Synthesis, physical characterization and biological performance of sequential homointerpenetrating polymer network sponges based on poly(2-hydroxyethyl methacrylate). *J. Biomed. Mater. Res.* 1999; 47(5): 404-411.

Lou X, Dalton PD, Chirila TV: Hydrophilic sponges based on 2-hydroxyethyl methacrylate. VII. Modulation of sponge characteristics by changes in reactivity and hydrophilicity of crosslinking agents. *J. Mater. Sci. Mater. Med.* 2000; 11(5): 319-325.

Lowy FD, Hammer SM: Staphylococcus epidermidis infections. *Ann Intern Med* 1983; 99:834-39.

Luchik VI, Lovlia GD, Astapova NN, Mal'tseva LG, Popova LN, Shulenin VA, Kushnir NN: The nature and results of the treatment of eye burns based on data from the Chernovtsy Province Eye Trauma Center. *Oftalmologicheskii Zhurnal* 1990; (6): 330-3.

Lund OE, Zenker W: Weitere Erfahrungen mit einer einnehmbaren Kunststoff-Keratoprothese. *Ber Dtsch Ophthalmol Ges* 1972; 71:336-40.

Lund OE: Kunststoff keratoplastik (cornea artificialis). Vergangenheit und Gegenwart. *Munchner Med Wochenschr* 1972; 23:1115-1125.

Lund OE, Greite JH, Boergen KP: Keratoprotheseverfahren. *Ber Dtsch Ophthalmol Ges* 1975; (73): 639.

Lund OE: Die Keratoprothese. *Ber Dtsch Ophthalmol Ges* 1977; 75:173-180.

Lund OE: Use of synthetic implants in the cornea and conjunctiva. Keratoprosthesis. *Bericht Uber die Zusammenkunft der Deutschen Ophthalmologischen Gesellschaft* 1978; (75): 173-80.

Lund OE: Wundheilung nach keratoprothese. In: Naumann GOH, Gloor B (Hrsg). Wundheilung des Auges und ihre Komplikationen. Munchen: Bergmann; 1980.

Lund OE: Grenzen und Moglichkeiten der optischen Keratoprothese. Ein klinischer und histopathologischer Bericht. *Klin Monatsbl Augenheilkd* 1982; 180:3-12.

Lund OE: Keratoprosthesis: 25 years Experience. *Refract Corneal Surg* 1993; 9:186-187.

Lupelli L, Fletcher RJ, Palumbo P, Menghi A, Taloni M, Caselli M: Improved optics for OOKP. *An Inst Barraquer (Barc.)* 1999; 28(S): 159-160.

Lyll MG: A proplast implant in Tenon's Capsule after excision of the eye. Presented to the ophthalmological society of the United Kingdom Annual Congress. London, April 1976.



Lydon FJ, Corkhill PH, Fitton JH, Franklin VJ, Oxley HR, Tighe BJ: Cartilage to cornea: structural and cellular issues in material design for keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:213-214.

M

Ma A, Zhao B, Bentley AJ, Brahma A, MacNeil S, Martin FL, Rimmer S, Fullwood NJ. Corneal epithelialisation on surface-modified hydrogel implants: artificial cornea. *J Mater Sci Mater Med.* 2011 Mar;22(3):663-70. Epub 2011 Feb 2.

Ma Joseph J.K. MD, Graney John M., Dohlman Claes H. MD PhD. Repeat Penetrating Keratoplasty versus the Boston Keratoprosthesis in Graft Failure.

McDonald MB, McCarey BE, Storie B, Beuerman RW, Salmeron B, van Rij G, Knight PM. Assessment of the long-term corneal response to hydrogel intrastromal lenses implanted in monkey eyes for up to five years. *J Cataract Refrac Surg* 1993; 19(2): 213- 22.

MacPherson DG, Anderson MJ: Keratoplasty with acrylic implant. *Brit Med J* 1953; 330-353.

Mainoldi GF, Amasio M, Bologna G: Mandibular prosthetic rehabilitation in the outcome of a Strampelli intervention for osteo- odonto-keratoprosthesis. *Minerva Stomatologica* 1984; 33(2): 313-6.

Malaeva AA: Vozmozhnost' ispol'zovaniya upakrinovogo kleya MK-2 pri pronikayushchikh raneniyakh rogovitsy i sklery (Possibility of using the upacrin glue MK-2 in the case of penetrating wounds of the cornea and the sclera). In: Materialy nauchnoi konferentsii k 90-letiyu so dnya rozhdeniya S.V. ochakovskogo (Papers of the Scientific Conference commemorating the 90th Birthday of S.V. Ochakovsky). Medical Institute, Krasnodar, 1968; pp 87-88 .

Malov VM: Otdalennye rezul'taty skvoznogo keratoprotezirovaniya pri tak nazyvaemykh 'beznadezhnykh' bel'makh (Long-term results of penetrating keratoprosthetics in the case of the so-called 'hopeless' leukomas). In: Voprosy klinicheskoi i eksperimental'noi oftal'mologii (Questions of Clinical and Experimental Ophthalmology). Medical Institute, Kuibyshev, 1979; pp 59-62.

Mannis MJ, May DR: Use of temporary keratoprosthesis in the subacute management of massive ocular trauma. *Ann Ophthalmol* 1983-15/8:773-777.

Manns F, Rol P, Parel J-M, Schmid A, Shen J-H, Matsui T, Söderberg P: Optical profilometry of poly(methylmethacrylate) surfaces after reshaping with a scanning photorefractive keratectomy (SPRK) system. *Applied Optics.* 1996; 35(19): 3338-3346.

Marchi V: Results of 62 osteo-odonto-keratoprosthesis. In Blodi F. Acta XXVth Congr Ophthalmol Roma. Berkeley-Milano, Kugler Ghedini 1988, Vol I: 1244-1249.

Marchi V: Osteo-odonto-keratoprosthesis the basic and the additional procedure) Part I: Osteo-



odonto-keratoprosthesis operation. *Ann Ottalmol Clin Ocul* 1989; 115/4:325-338.

Marchi V, Fiormonte F, De-Martiis A: Osteo-odonto-keratoprosthesis. The basic and the additional interventions. Part II: The cataract extraction procedure. The retroprosthesis membrane treatment. *Ann Ottalmol Clin Ocul* 1989; 115/4:349-354.

Marchi V, Manni GL, Fiormonte F, De-Martiis A: Osteo-odontokerato-prosthesis (the basis and the additional procedure) Part III: The surgical treatment of glaucoma. *Ann Ottalmol Clin Ocul* 1989; 115/4:403-421.

Marchi V, Fiormonte H, Manni GL: Advantages from the use of hyalectin in special cases of ophthalmic microsurgery: Cyclodiastais, refractive surgery, keratoprosthesis. *Ann Ottalmol Clin Ocul* 1989; 115/6:567-571.

Marchi V, Ricci R, Pecorella I, Ciardi A, Di Tondo U: Osteo-Odonto-Keratoprosthesis. Description of surgical technique with results in 85 patients. *Cornea* 1994; 3:125-130.

Marachi V, Marachi S, Gualano A, Ricci R: Replacement of the osteodental acrylic lamina (ODAL). *An Inst Barraquer (Barc.)* 1999; 28(S): 83-84.

Marachi V, Gualano A, Marachi S, Zumbo G: Osteo-odonto keratoprosthesis and cataract surgery. *An Inst Barraquer (Barc.)* 1999; 28(S): 85-86.

Mark J, Manni S, May D: Use of the temporary keratoprosthesis in the subacute management of massive ocular trauma. *Ann Ophthalmol* 1985; 15:8,773.

Martinez-Soroa I, Mendicute-Del-Barrio J, Asensio-Huerga AB, Madarieta-Pardo I, Alava-Marquinez JJ, Garagorri-Gantxegi N, Aldazabal-Amas P. Two different intra-corneal inlay surgical technique in rabbit eyes. *Arch Soc Esp Oftalmol*. 2005 Oct; 80(10):581-8. Spanish.

Master U: Hornhautprothesen aus weichen Kunststoff-erste Erfahrungen im Tierexperiment. *Graefes Arch Ophthalmol* 1976; 198:73-78.

Matsuda H, Smelser GK: Epithelium and stroma in alkali-burned corneas. *Arch Ophthalmol (Fr)* 1973; 89:396-401.

Mauriello JA Jr, Pokomy K: Use of split-thickness dermal grafts to repair corneal and scleral defects -- a study of 10 patients. *Brit J Ophthalmol* 1993; 77(6): 327-31.

Mazhdrakova I, Vybov S: Eksperimental'noe keratoprotezirovanie s ispol'zovaniem implantirovannykh v rogovuyu obolochku nogtevykh chastits (Experimental keratoprosthesis with the use of claw particles implanted in the cornea). In: Tezisy dokladov mezhdunarodnoy konferentsii po keratoplastiki i keratoprotezirovaniyu (Papers of the international conference on keratoplasty and keratoprosthesis). Ministry of Health of the USSR, Moscow, 1978, p 135-136.

Mehta JS, Futter CE, Sandeman SR, et al. Hydroxyapatite promotes superior keratocyte adhesion and proliferation in comparison with current keratoprosthesis skirt materials *Br J Ophthalmol (England)*, Oct 2005, 89(10): 1356-62

McCarey BE: Current status of refractive surgery with synthetic intracorneal lenses: Barraquer



lecture. *Refract Corneal Surg* 1990; 6:40-46.

Meier P: Combined anterior and posterior segment injuries in children: a review. *Graefes Arch Clin Exp Ophthalmol*. 2010 May 29.

Menapace R, Skorpik C, Grasl M: Modified triple procedure using a temporary keratoprosthesis for closed-system, small-incision cataract surgery. *J Cataract Refract Surg* 1990; 16(2): 230-4.

Menapace R: Temporary keratoprosthesis for transscleral fixation of posterior chamber intraocular lenses with penetrating keratoplasty. *J Cataract Refract Surg* 1993; 19,6:747-754.

Merrill EW, Salzman EW, Dennison KA, Tay SW, Pekala RW: Nonadsorptive hydrogels for blood contact. *Progress in Artificial Organs* 1985; 909-912.

Merrett K, Griffith CM, Deslandes Y, Pleizier G, Dube MA, Sheardown H. Interactions of corneal cells with transforming growth factor beta 2-modified poly dimethyl siloxane surfaces. *J Biomed Mater Res A*. 2003 Dec 1; 67(3):981-93.

Messmer EM, Hintschich CR, Partsch K, Messer G, Kampik A: Ocular cicatricial pemphigoid. Retrospective analysis of risk factors and complications. *Ophthalmologie*. 2000; 97(2): 113-20.

Mester U: Keratoprosthesis made with soft plastic material--first experiments on animals. *Graefes Arch Ophthalmol* 1976; 198(1): 73-8.

Mester U, Krasemann C: Microbiologic Investigations of experimental keratoprosthesis made with hydrophilic plastics (author's transl). *Albrecht Von Graefes Archiv fur Klinische und Experimentelle Ophthalmologie* 1976; 198(1): 79-82.

Mester U: Experiences in animal experiments with hydrogel keratoprosthesis of different water content. *Ophthalmologica* 1979; 179(1): 62-9.

Michael R, Charoenrook V, de la Paz MF, Hitzl W, Temprano J, Barraquer RI. Long-term functional and anatomical results of osteo- and osteodonto-keratoprosthesis. *Graefes Arch Clin Exp Ophthalmol*. 2008 Aug; 246(8): 1133-7.

Michieletto P, Ligabue E, Balestrazzi A, Balestrazzi A, Giglio S. PermaVision intracorneal lens for the correction of hyperopia. *J Cataract Refract Surg*. 2004 Oct; 30(10):2152-7.

Miller D, Dohlman C: Optical properties of buried corneal silicone prostheses. *Am J Ophthalmol* 1968; 66:633-640.

Miyashita H, Shimmura S, Kobayashi H, Taguchi T, Asano-Kato N, Uchino Y, Kato M, Shimazaki J, Tanaka J, Tsubota K. Collagen-immobilized poly (vinyl alcohol) as an artificial cornea scaffold that supports a stratified corneal epithelium. *J Biomed Mater Res B Appl Biomater*. 2005 Jul 25;

Moller JK: Drug resistance and plasmid profiles in staphylococcus epidermidis in 1964 and 1986. *J Hosp Infect* 1988; 12(1): 19-27.

Mooney V et al: Percutaneous implant devices. *Ann Biomed Eng* 1977; 5:34-36.



Morax S, Bok Z, Ruban JM: L'utilisation de borete (PTFE) en chirurgie plastique ophtalmologique. *Ophthalmologie* 1987; 1:493-495.

Moroz ZI, Glazko VI: Novyl metod ukrepleniya bel'ma pri skvoznom keratoprotezirovanii (New method of strengthening the leukoma in penetrating keratoprosthetics). In: Fiziologiya i patologiya mekhanizmov adaptatsii organa zreniya (Physiology and Pathology of the Mechanisms of Adaptation of the Organ of Vision). Vladivostok, 1973; v 4, pp 68-69.

Moroz ZI, Zuev VK: Oslozhneniya pri skvoznom keratoprotezirovanii (Complications in penetrating keratoprosthetics). In: Materialy 4-go vsesoyuznogo s"ezda oftal'mologov (Papers of the Fourth All-Union Congress of Ophthalmologists). Ministry of Health of the USSR, Moscow, 1973; pp 630-633.

Moroz ZI, Glazko VI, Zuev VK: Sravnitel'naya otsenka trekh vidov keratoprotezov, implantirovannykh v ozhogovye bel'ma (Comparative estimate of three types of keratoprostheses implanted in burn leukomas). In: Optikorekonstruktivnye operatsii i alloplastika v oftal'mologii (Optico-reconstructive Operations and Alloplasty in Ophthalmology). *Meditsina*, Moscow, 1974; pp 39- 43.

Moroz ZI, Zuev VK, Glazko VI: Meditsinskaya reabilitatsiya bol'nykh s 'beznadezhnymi' bel'mami metodom skvoznogo keratoprotezirovaniya (Medical rehabilitation of patients with 'hopeless' leukomas by means of penetrating keratoprosthetics). In: Meditsinskaya reabilitatsiya invalidov vsledstvie povrezdenii i zabolevanii organa zreniya (Medical Rehabilitation of Damages and Diseases of the Organ of Vision). Dnepropetrovsk 1977; p 200.

Morrison DA, Gridneva Z, Chirila TV, Hicks CR: Screening for drug-induced spooling of the hydrogel optic of the AlphaCor artificial cornea. *Cont Lens Anterior Eye*. 2006 May; 29(2):93-100.

Mortemousque B, Dorot N, Poirier L, Williamson W, Brousse D, Verin P: Complication of keratoprosthesis of posterior fixation: retroprosthetic membranes. A propos of 4 cas. *J Fr Ophthalmol* 1995; 18(10): 608-13.

Mota FC, Eurides D, Freitas PM, Beletti ME, Goulart MR, Cunha LM, da Silva LA, Fioravanti MC. Use of the n-butyl cyanoacrylate adhesive and the polyglactine thread suture for corneal rhexis in rabbit (*Oryctolagus cuniculus*). *J Vet Sci*. 2004 Sep; 5(3):267- 70.

Mounir A, El Fiky M., Gamil M., Experience with Lacombe PCL5 KPro at the Ain Shams University (Egypt). *An. Inst. Barraquer, (Barc.)* 2002; 31(2): 152-154

Moussala M, Beharcohen F, Dighiero P, Renard G: Lyell's syndrome and its ophthalmologic manifestations in Cameroon. *J Fr Ophthalmol* 2000; 23(3): 229-37.

Moussala M, Binam F, Nkam M, Kouda Zeh A, Bengono G: Ocular manifestations and sequelae of Lyell syndrome caused by sulfadoxine-pyrimethamine in Cameroon. *J Fr Ophthalmol* 1998; 21(1):72-7.

Moussala M, Beharcohen F, Dighiero P, Renard G: Lyell's syndrome and its ophthalmologic manifestations in Cameroon. *J Fr Ophthalmol* 2000; 23(3): 229-37.



Muldashev ER, Kadyrov RZ, Nigmatullin RT, Gurianov AS: Alloplant Lamellar Keratoplasty. (ARVO abstract). *Invest Ophthalmol Vis Res* 1995; 36(4): S314.

Muraine M, Collet A, Brasseur G: Deep lamellar keratoplasty as surgical management of anterior and posterior segment injuries to the eye. *Cornea* 2001; 20 (8): 897-901.

Murube del Castillo J, Bueso Rodriguez J: Presentation de trois nouveaux types de kerathoprothese. *Bull Mem Soc Fr Ophthalmol* 1980; 92:279-281.

Myung D, Derr K, Huie P, et al.: Glucose permeability of human, bovine, and porcine corneas in vitro. *Ophthalmic Research* 2006; 38(3): 158 – 163.

Myung D, Duhamel PE, Cochran JR, Noolandi J, Ta CN, Frank CW: Development of hydrogel-based keratoprotheses: a materials perspective. *Biotechnol Prog.* 2008 May-Jun; 24(3): 735-41.

Myung D, Farooqui N, Waters D, Schaber S, Koh W, Carrasco M, Noolandi J, Frank CW, Ta CN: Glucose-permeable interpenetrating polymer network hydrogels for corneal implant applications: A pilot study. *Current Eye Research* 2008; 33: 29 – 43.

Myung D, Farooqui N, Zheng LL, Koh W, Gupta S, Bakri A, Noolandi J, Cochran JR, Frank CW, Ta CN: Bioactive interpenetrating polymer network hydrogels that support corneal epithelial wound healing. *J Biomed Mater Res A.* 2009 Jul; 90(1): 70-81.

Myung D, Koh W, Bakri A, et al.: Design and fabrication of an artificial cornea based on a photolithographically patterned hydrogel construct. *Biomedical Microdevices* 2007; 9(6): 911 – 922.

N

Nadal J, Barraquer J: A new lens for vitreous and retinal surgery in Osteo-odonto-keratoprosthesis patients. *An Inst Barraquer (Barc.)* 2001; 30:71-74.

Nakao H, Matsuda T, Nakayama Y, Hara Y, Saishin M: Design concept and construction of a hybrid lamellar keratoprosthesis. *ASAIO J* 1993; 139(3): M257-60.

Nakao H, Matsuda T, Nakayama Y, Morimoto M, Hara Y, Saishin M: Development of hybrid keratoprosthesis. 1. Design of artificial extracellular matrix and construction of hybrid corneal stroma. *Folia Ophthalmol Jpn* 1993; 44,3:247-254.

Nakao H, Matsuda T, Nakayama Y, Morimoto M, Hara Y, Saishin M: Development of hybrid keratoprosthesis. 2. *Folia Ophthalmol Jpn* 1993, 44,9:1107-1113.

Nallasamy S, Colby K. Keratoprosthesis: procedure of choice for corneal opacities in children? *Semin Ophthalmol.* 2010 Sep-Nov;2 5(5-6):244-8. Review.

Nano M, Perez H: Otro modelo de queratoprotesis. *Arch Oftal B Aires* 1971; 46/11:197-202.

Nell BH: Implants of Gore-TexÆ. Comparison with Teflon-coated Polytetrafluoroethylene



Carbon and Porous Polyethylene Implants. *Arch Otolaryngol* 1983; 109:427-438.

Netland PA, Terada H, Dohlman CH: Glaucoma Associated with Keratoprosthesis. *Ophthalmology*. 1998; 105(4): 751-757.

Ngakeng V, Hauck MJ, Price MO, Price FW Jr: AlphaCor keratoprosthesis: a novel approach to minimize the risks of long-term postoperative complications. *Cornea*. 2008 Sep; 27(8): 905-10.

Niedermeier S. An artificial cornea in corneal dystrophies. *Ophthalmologica*. 158 Suppl: 533-6, 1969.

Nouri M, Durand ML, Dohlman CH. Sudden Reversible Vitritis After Keratoprosthesis— An Immune Phenomenon? *Cornea* 2005; 24:915-919.

Nouri M, Terada H, Alfonso EC, et al: Endophthalmitis after keratoprosthesis; incidence, bacterial causes, and risk factors. *Arch Ophthalmol* 119: 484-489, April 2001.

Nouri M, Terada H, Durand ML, Alfonso E, Dohlman CH: Risk factors for endophthalmitis in keratoprosthesis patients. *An Inst Barraquer (Barc.)* 2001; 30:123-124.

Nussbaum I: Cornea artificialis. Munchen, 1853.

Nussbaum I: Die Behandlung der Hornhauttrübungen mit besonderer Berücksichtigung der kunstlicher Hornhaut (cornea artificialis), Munchen, 1856.

Nussbaum JN: Cornea artificialis. Berlin: *Deutsche Klinik* 1895; 5:367.

O

Oga M, Sugioka Y, Hobgood CD, Gristina AG, Myrvik QN: Surgical biomaterials and differentials colonization by Staphylococcus epidermidis. *Biomaterials* 1988; 9:285-89.

Olson RJ, Kaufman HE: An abscess associated with a through-the-lid keratoprosthesis one year after intraocular lens insertion. *Ophthalmic Surg* 1980; 11(3): 203-205.

Orwin EJ, Lee S, Raub C, Icenogle T, Arman M, Cho A, Lovic R, Malone A, Haskell RC, Hoeling BM, Petersen DC. Optical coherence microscopy for the evaluation of a tissue-engineered artificial cornea. *Conf Proc IEEE Eng Med Biol Soc*. 2004; 2: 1218-21.

Otani Y, Tabata Y, Ikada Y: New biological glue from gelatin and poly (L ñ glutamic acid). *J Biomed Mater Res* 1996; 31:157-166.

Otto AJ: Keratoprosthesis. Development and indications. *Ophthalmologica* 1972; 165/6:540-542.

Ozge Ilhan-Sarac, Esen Karamursel Akpek. Current Concepts and techniques in keratoprosthesis. *Current Opinion in Ophthalmology*. 2005; 16: 246-250.



P

Palma LA, Miller D, Alfonso E: The microbial flora in patients with a keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 67-68.

Pamajjer JK: Proceedings: Strampelli's operation. Corneal prosthesis. *Ophthalmologica* 1973; 167/5:397-401.

Panormova NV, Malov VM: Morphological aspects of penetrating keratoprosthesis with mushroom-shaped implant. *Oftahnologicheskii Zhurnal* 1977; 32(5): 373-5.

Parel J M: Introduction to the 1st Keratoprosthesis Study Group Meeting. *Refract Corneal Surg* 1993; 9:184-185.

Parel J M, Lacombe E: Retrocorneal Fixation Keratoprosthesis: Analysis of 59 Patients with up to 7 years of Follow-up. *ARVO Invest Ophthalmol Vis Sci.* 1997, 38(4): S131.

Parel J M: 200 years of KPro: Pellier De Quengsy and the artificial cornea. *An Inst Barraquer (Barc.)* 1999; 28(S): 33-41.

Parel J M: Contributions of Past Keratoprosthesis conferences and the future. *An Inst Barraquer (Barc.)* 2001; 30:29-32.

Parel J M, et al: KPro Study Group Bibliography Up-Date. *An Inst Barraquer (Barc.)* 2001; 30:239-244.

Parel J M, et al: Visual Acuity Conversion Table. *An Inst Barraquer (Barc.)* 2001; 30:245.

Parel J M, et al: In Memoriam: Pascal Rol 1956-2000. *An Inst Barraquer (Barc.)* 2001; 30:247-125.

Parel JM, Sweeney D. OOKP. *Cornea.* 2005 Nov; 24(8):893-4.

Parthasarathy A, Aung T, Oen FTS, Tan DTH: Endoscopic cyclophotocoagulation for the management of advanced glaucoma after osteo-odonto-keratoprosthesis surgery. *Clin Exp Ophthalmol* 2008; 36: 93 – 94.

Patel V, Osborne S, Morley AM, Malhotra R. The use of pericranial flaps for reconstruction and elevation of the lower eyelid. *Orbit.* 2010 Feb; 29(1): 1-6.

Patel S, Thakar RG, Wong J, et al.: Control of cell adhesion on poly(methyl methacrylate). *BIOMATERIALS* 2006; 27(14): 2890 – 2897.

Pavan-Langston D, Dohman CH: Boston keratoprosthesis treatment of herpes zoster neurotrophic keratopathy. *Ophthalmology* 2008; 115(2): S21 – S23.

Pecorella I, Taloni M, Caselli M, Ciardi A, Alexander RA, Ditondo U, Falcinelli G: Histological



findings in osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S):167-168.

Pecorella I, Maurizio T, Antonio C, et al.: Progressive replacement of oral mucosa by conjunctiva in osteo-odonto-keratoprosthesis - Preliminary observations. *Cornea* 2006; 25(2): 193 – 195.

Pecorella I, Taloni M, Ciardi A, et al.: Osteo-odonto-keratoprosthesis: A human model of autotransplant. *Current Eye Research* 2006; 31(10): 835 – 843.

Pellier de Quensgy G: Précis ou cours d'opérations sur la chirurgie des yeux. Paris Didot & Mequignon, Paris, Vol 1, pXV, pp 96- 1031, 1789-90.

Pesko K, Strmen P: Perforation keratoplasty after pars plana vitrectomy and use of a temporary keratoprosthesis. *Ceska A Slovenska Oftalmologie* 1998; 54(3): 148-53.

Petrachi G, Marchi S, Zumbo G, Lisi L: Functional outcome after osteo-odonto-keratoprosthesis (OOKP). *An Inst Barraquer (Barc.)* 1999; 28(S): 135-136.

Petrovsky BV, Solov'ev GM, Shumakov VN: Proteziranje klapnov serdza (Cardiac valve prosthetics). *Medicsina*, Moscow, 1966; pp 19-29.

Peyman GA, Beyer CF, Bezerra Y, Vincent JM, Arosemena A, Friedlander MH, Hoffmann L, Kangelor J, Roussau D. Photoablative inlay laser in situ keratomileusis (PAI-LASIK) in the rabbit model. *J Cataract Refract Surg.* 2005 Feb; 31(2):389-97.

Pinar-Sueiro S, Etxebarria-Ecenarro J, Gibelalde A, Closa-Clarià R, Martínez-Alday N: [Successful Boston keratoprosthesis in a patient with Lyell's syndrome]. *Arch Soc Esp Oftalmol.* 2009 Dec; 84(12): 635-40. Spanish.

Pineles SL, Ela-Dalman N, Rosenbaum AL, Aldave AJ, Velez FG. Binocular visual function in patients with Boston type I keratoprostheses. *Cornea.* 2010 Dec; 29(12):1397-400.

Pino M, Stingelin N, Tanner KE: Nucleation and growth of apatite on NaOH-treated PEEK, HDPE and UHMWPE for artificial cornea materials. *Acta Biomater.* 2008 Nov; 4(6): 1827-36.

Pintucci F, Andreocci N: La nostra esperienza sui trapianti di mucosa nelle causticazioni oculari. *Arch Oftal* 1959, 1-18.

Pintucci F: Il ricoprimento congiuntivale nelle ulcere perforate della cornea e nei descemetoceli. *Boll Ocul* 1973; 52:309-316.

Pintucci F, Pintucci S: I materiali alloplastici nella chirurgia della cornea. *Atti Soc Oftal Lombarda* 1985; 39-54.

Pintucci F, Pintucci S: Pemfigoide oculare in paziente adentula. Nuovo tipo di keratoprotesi. *Proc 65 Congresso Nazionale Soc Oftal Ital* 1985; 139-147.

Pintucci F, Pintucci S: New kind of keratoprosthesis. In: Pizzoferrato A, Marchetti P, Ravagliolo A, Lee A, eds. *Advances in Biomaterials*, Volume 7, Elsevier Science Publishers B.V. 1987;



321-324.

Pintucci F, Pintucci S, Giusti R, Formisano G, Caiazza S: A new biointegrable keratoprosthesis. *Ocular Surgery News*, Vol 3,12:22- 23.

Pintucci F, Pintucci S: Trattato Italiano di Oftalmologia. Verduci Editore- Roma 1990; Vol 3, 20:1-31.

Pintucci S, Pintucci F: Keratoprothese avec un nouveau support haptique a la colonisation tissulaire pour oeil sec. *Ophthalmologie* 1988; 2:157-170.

Pintucci S, Tomaino M: La Keratoprothese selon Pintucci. Reunion de Travail Corneal, St. Jean De Luz. 1990; 4:27-28.

Pintucci S, Pintucci F, Caiazza S: The pintucci's biointegrable keratoprosthesis: An up to date. Bologna: Studio E.R. Congressi, 1990; 137-42.

Pintucci S, Pintucci F, Caiazza S: The dacron felt colonizable keratoprosthesis. *Refract Corneal Surg* 1993; 9:196-197.

Pintucci S, Caiazza S, Donelli G: Biointegrable keratoprotheses: performances and recent improvements. *Ital J Ophthalmol* 1993; 7: 13-20.

Pintucci S, Pintucci F, Cecconi M, Caiazza S: New Dacron tissue colonizable keratoprosthesis: clinical experience. *Br J Ophthalmol* 1995; 79: 825-829.

Pintucci S, Pintucci F, Caiazza S, Cecconi M: The Dacron felt colonizable keratoprosthesis: after 15 years. *Eur J Ophthalmol*. 1996; 6: 125-130.

Pintucci S, Pintucci F, Caiazza S, Karcioğlu ZA: Short and long term complications of the PMMA/Dacron biointegrated keratoprosthesis: 18 years of experience. *Invest Ophthalmol Vis Sci*. 1998; 39(4): S77.

Pintucci S, Pintucci F, Cecconi M, Caiazza S: The Pintucci Dacron tissue KP: long-term results, postoperative care and revisions in dry eyes and in eyes with tear secretion. *An Inst Barraquer (Barc.)* 1999; 28(S): 109-112.

Pintucci S, Pintucci F, Cecconi M, Caiazza S: The Pintucci's Dacron tissue KP: Histological and ultrastructural aspects of the biointegration of the supporting element. *An Inst Barraquer (Barc.)* 1999; 28(S): 161-165.

Pintucci S, Pintucci F, Cecconi M, Caiazza S: The Pintucci's Dacron tissue KP: How we improved the technique of implanting the KP in dry eyes and in eyes with sufficient tear secretion. *An Inst Barraquer (Barc.)* 1999; 28(S): 51-56.

Pintucci S, Perilli R, Formisano G, Caiazza S: Influence of Dacron tissue thickness on the performance of the Pintucci biointegrable keratoprosthesis: an in vitro and in vivo study. *Cornea* 2001, 20(6): 647-50.

Pintucci S, Pintucci F, Sarra A: PMMA/Dacron Biointegrated keratoprosthesis 19 years of



- experience. *An Inst Barraquer (Barc.)* 2001; 30:97-99.
- Polack F: Corneal optical prostheses. *Brit J Ophthalmol* 1971, 55:838-843.
- Polack FM: Visual restoration with plastic corneal implants. *South Med J* 1972; 65:1118-1122.
- Polack F: Keratoprosthesis. *Invest Ophthalmol* 1975, 15:593-595.
- Polack FM: Editorial: Keratoprosthesis. *Invest Ophthalmol* 1976; 15(8): 593-5.
- Polack F, Heimke G: Ceramic keratoprosthesis. *Ophthalmology* (Rochester) 1980, 87: 693.
- Polack F, Heimke G: Keratoprothesen aus Korundeinkristall und keramik. *Ber Dtsch Ophthalmol Ges* 1980; 77:469-477.
- Polack FM: Visual rehabilitation with aluminium oxide ceramic cornea prosthesis. In: *Biomaterials* 1980. Winter GD, Gibbons DF, Plenk Jr H (eds). London: Wiley 1982; 733-738.
- Polack F: Proceedings of the first conference on keratoprosthesis: Introduction. *Cornea* 1983; 2:173-174.
- Polack F: Clinical results with a ceramic keratoprosthesis. *Cornea* 1983; 2:185-196.
- Polack FM, Heimke G: Ceramic keratoprosthesis, long-term follow-up. *An Inst Barraquer (Barc.)* 2001; 30:43-46.
- Pollach J: Corneal hydration studied in stromal segment separated by interlamellar disease. *Investigational Ophthalmology* 1962; 1:661-665.
- Pouliquen Y: Epilogue to the second meeting of the keratoprosthesis (KPro) Study group. *An Inst Barraquer (Barc.)* 1999; 28(S): 183-185.
- Pop M: Evaluation of 46 keratoprosthesis after 6-years follow-up. *An Inst Barraquer (Barc.)* 2001; 30:83-84.
- Por YM, Cheng JYC, Parthasarathy A, Mehta JS, Tan DTH: Outcomes of femtosecond laser-assisted penetrating keratoplasty. *Am J Ophthalmol* 2008; 145(5): 772 – 774.
- Puchkovskala NA: Keratoprosthesis as a method of restoring vision in the sequelae of severe corneal lesions. *Oftalmologicheskii Zhurnal* 1985; (3): 132-4.
- Puchkovskaia NA, Iakimenko SA, Golubenko EA: Personal experience with keratoprosthesis. Nash opyt keratoprotezirovaniia. *Oftalmologicheskii Zhurnal* 1975; 30(7): 490-5.
- Puchkovskaia NA, Iakimenko SA: Penetrating keratoprosthesis insertion in leucoma using improved models of keratoprotheses and surgical technique of their insertion. *Klinika Oczna* 1981; 83(2): 105-7.
- Puchkov SG, Makarevsky VV, Filatova GI: Izuchenie khimicheskogo vozdelstviya intraokulyarnol linzy iz orgstekla had tkanel i funktsii glaza v eksperimente (Study of the



chemical effect of intraocular plexiglas lens over tissues and the eye function in an experiment). In: Materialy 4-go vsesoyuznogo s"ezda oftal'mologov (Papers of the fourth all-union congress of ophthalmologists). Ministry of Health of the USSR, Moscow, 1973; p 639.

Puchkovskaya NA: Peresadka rogovol obolochki pri oslozhnennykh bel'makh (Corneal transplantation in the case of complicated leukomas), *Zdorov'e*, Kiev, 1966.

Puchkovskaya NA, Muchnik SR, Golubenko EA: Alloplastika rogovitsy (Corneal alloplasty). *Oftal'mologicheskil Zhurnal* 1970; 4: 247-252.

Puchkovskaya NA: Alloplastika rogovitsy (Corneal alloplasty). In: Patogenez i lechenie ozhogov glaz i ikh posledstvil (Pathogenesis and Treatment of Eye Burns and their Consequences). *Meditsina*, Moscow, 1973; pp 167-173.

Puchkovskaya NA: Regenerativnye i vosstanovitel'nye protsessy pri razlichnykh vidakh peresadki rogovol obolochki (Regenerative and restorative processes in different types of corneal transplantation). In: Oftal'mologiya (Ophthalmology). *Zdorov'e*, Kiev, 1973; pp 67-72.

Puchkovskaya NA, Yakimenko SA: Dvukhetapnyl metod keratoprotezirovaniya (Two-stage method of keratoprosthetics). *Oftal'mologicheskil Zhurnal* 1978; 7:498-500.

Puchkovskaya NA, Yakimenko SA, Golubenko EA: Otdalennye rezul'taty keratoprotezirovaniya (Long-term results of keratoprosthetics). *Oftal'mologicheskil Zhurnal* 1979; 7:388-391.

Py D, DeBiccari A, Caldwell D: Keratoprosthesis: Engineering and safety assessment. *Refract Corneal Surg* 1993; 9:206-208.

Q

Qian CX, Harissi-Dagher M. Delayed suprachoroidal haemorrhage following Boston Keratoprosthesis in two aniridic patients. *Br J Ophthalmol*. 2011 Mar;95(3):436-7. Epub 2010 Sep 2.

R

Rafat M, Griffith M, Hakim M, et al.: Plasma surface modification and characterization of collagen-based artificial cornea for enhanced epithelialization. *J Appl Polymer Sci* 2007; 106(3): 2056 – 2064.

Rafat M, Matsuura T, Li F, Griffith M: Surface modification of collagen-based artificial cornea for reduced endothelialization. *J Biomed Mater Res A*. 2009 Mar 1; 88(3): 755-68.

Rao GN, Aquavella JV, Palumbo AJ: Periosteal graft in scleromalacia. *Ophthalmic Surg* 1977; 8/5:86-92.

Rao GN, Blatt HL, Aquavella JV: Results of keratoprosthesis. *Am J Ophthalmol* 1979; 88:190-204.



Rao SK, Fogla R, Sitalakshmi G, Padmanabhan P: Corneal autografting: a systematic approach. *Ophthalmic Surg Lasers* 2000; 31(6): 457-61.

Ratanapakorn T, Ameri H, Humayun MS, et al.: Enucleated eye model for intraocular retinal prosthesis implantation. *Ophthalmic Surg Lasers & Imaging* 2006; 37(4): 341 – 343.

Ray S, Khan BF, Dohlman CH, D'Amico DJ. Management of vitreoretinal complications in eyes with permanent keratoprosthesis. *Archives of Ophthalmology* 2002; 120(5): 559-66.

Refojo MF: Current status of biomaterials in Ophthalmology. *Surv Ophthalmol* 1982; 26:257-265.

Refojo MF: Polymers in ophthalmic surgery. *J Biomed Mater Res* 1971; 5:113-119.

Reim M, Dutescu M, Schmidt-Martens FW. Glued on plexiglas lenses as synthetic cornea epithelium. *Bericht Uber die Zusammenkunft der Deutschen Ophthalmologischen Gesellschaft* 1978; (75):204-8.

Ren Q, Simon G, Parel JM: Collagen-based bioadhesives for corneal-wound closure. In *Ophthalmic Technologies II*, J-M Parel, ed. Proc SPIE publishers Bellingham WA, Vol 1644:pp.49-53, 1992.

Renard G: Artificial cornea. *Bulletin de l'Academie Nationale de Medecine* 1996; 180(3): 659-65; discussion 665-8.

Renard G, Legeais JM, Cetinel B, Savoldelli M, Durand J: Fluorocarbon polymer implanted in the anterior chamber. An ultrastructural study in the rabbit. *Invest Ophthalmol Vis Sci* 1993; 34(Suppl): 1320.

Renard G. Artificial cornea. *Bulletin de l'Academie Nationale de Medecine* 1996; 180(3): 659-65; discussion 665-8.

Renard G, Cetinel B, Legeais JM, Savoldelli M, Durand J, Pouliquen Y: Incorporation of a fluorocarbon polymer implanted at the posterior surface of the rabbit cornea. *An Inst Barraquer (Barc.)* 1999; 28(S): 173.

Reshetneva OA, Moroz ZI: Kliniko-morfologicheskoe izuchenie eksperimental'noi endotelial'noi distrofii rogovitsy (Clinicomorphologic study of experimental endothelial dystrophy of the cornea). In: Vosstanovitel'naya khirurgiya i alloplastika v oftal'mologii (Restorative Surgery and Alloplasty in Ophthalmology). *Meditsina*, Moscow, 1973; pp 16-21.

Rezende C de: El implante corneno de acrilico; contribucion experimental. *An Inst Barraquer* 1963; 3:840-844.

Ricci R, Pecorella I, Ciardi A, Della Roca C, Di Tondo U, Marchi V: Strampelli's Osteo Odonto keratoprosthesis. Clinical and histological long-term features of three prostheses. *Br J Ophthalmol* 1992; 76(4): 232-234.

Richards R: Long-term results of gonioplasty. *Am J Ophthalmol* 1970; 69:715-719.



- Ridley H: Safety requirement for acrylic implants. *Brit J Ophthalmol* 1957; 41:359-361.
- Rishi P, Maskati QB, Ray R, Iyer GK, Srinivasan B, Pillai VS: Vitreoretinal surgery in eyes with Pintucci biointegrable keratoprosthesis. *Retina*. 2010 Feb; 30(2): 287-93.
- Riss I: Evaluation of keratoprosthesis in patients with corneal edema. *An Inst Barraquer (Barc.)* 2001; 117-120.
- Rivier D, Paula JS, Kim E, Dohlman CH, Grosskreutz CL: Glaucoma and keratoprosthesis surgery: role of adjunctive cyclophotocoagulation. *J Glaucoma*. 2009 Apr-May; 18(4): 321-4.
- Rizzuti AB: El tratamiento quirurgico de la queratopatía vesicular: Prostoqueratoplastia usando el implante de Cardona. *An Inst Barraquer* 1969; 9:436-448.
- Rizzuti AB: The present status of keratoprosthesis. *Isr J Med Sci* 1972; 8/8:1289-1292.
- Rizzuti B: Reconstruction of the anterior ocular segment in advanced diseases of the cornea. Sixth Afro Asian Congress Ophthalmol, Madras 1976.
- Roger A, Morris L: Percutaneous leads for power control of artificial hearts. *Trans Amer Soc Int Organ* 1967; 13: 146-150.
- Rohrbach JM, Wohlrab TM, Sadowski B, Thiel HJ: Biological corneal replacement--an alternative to keratoplasty and keratoprosthesis? A pilot study with heterologous hyaline cartilage in the rabbit model. *Klinische Monatsblätter für Augenheilkunde* 1995; 207(3):191-6.
- Rol P, Parel J-M, Lacombe E, Legeais JM: ArF photorefractive correction of keratoprosthesis. In *Ophthalmic Technologies III*, J-M Parel, Q. Ren, ed. Proc SPIE publishers, Bellingham WA, Vol 1877:354-357, 1993.
- Rol P, Parel J M, Lacombe E, Legeais J M, Villain F: Optics of Keratoprotheses. *Refract Corneal Surg* 1993; 9:212-213.
- Rol P, Parel J M, Villain F: Optical transmission of implantable ophthalmic biopolymers. In *Ophthalmic Technologies IV*, J-M Parel, Q. Ren, eds. Proc SPIE publishers, Bellingham WA, Vol 2126:353-359, 1994.
- Rol P, Huber CHR, Manns F, Parel J M: ArF photoablation of keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S): 127-130.
- Roper-Hall M J: Keratoprothetics. Personal experience. *An Inst Barraquer* 1969; 9:449-457.
- Roper-Hall M J: The treatment of complications of keratoprotheses. *An Inst Barraquer* 1973; 12/1:201.
- Roper-Hall M J: Why are keratoprotheses not given more attention? *European J Implant Refract Surg* 1991; 3:79-81.
- Roper-Hall M J: Keratoprosthesis: Hopes and Possibilities. *Refract Corneal Surg* 1993; 9:185-



186.

Roper-Hall M J: Proceedings of the first keratoprosthesis study group meeting: Foreword. *Refract Corneal Surg* 1993; 9:185.

Roper-Hall M J: Renewed hope for keratoprosthesis (KPro). *An Inst Barraquer (Barc)* 1995; 25/2.

Roper-Hall M J: KPro (Keratoprosthesis) Study Group. *An Inst Barraquer (Barc.)* 1999; 28(S): 31-32.

Roper-Hall M J: How I became involved with keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:27-28.

Roper-Hall M J: Success and failure of first generation Keratoprosthesis- a report on single material PMMA penetrating keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:37-40.

Ronkina TI: Morfologicheskaya kharakteristika ozhogovykh bel'm i ikh keratoprotezirovaniya (Morphological characterization of burn leukomas and their keratoprosthetics). Dissertation for a candidate's degree. Moscow, 1976.

Ronkina TI, Bagrov SN, Moroz ZI Glazko VI: Gistogenez i znachenie retroproteznol membrany, vznikayushchel posle keratoprotezirovaniya bel'm (Histogenesis and significance of a retroprosthetic membrane which originates after the keratoprosthetics of leukomas). *Oftal'mologicheskii Zhurnal* 1979; 7:425-427.

Ronkina TI, Glazko VI: Morfologicheskii analiz nekotorykh oslozhnenil, vznikayushchikh posle keratoprotezirovaniya bel'm (Morphological analysis of some complications after the keratoprosthetics of leukomas). In: Tretii natsional'nylkongress po oftal'mologii (Third National Congress of Ophthalmology). Sofia, 1980; pp 173-174.

Roters S, Szurman P, Hermes S, Thumann G, Bartz-Schmidt KU, Kirchhof B: Outcome of combined penetrating keratoplasty with vitreoretinal surgery for management of severe ocular injuries. *Retina* 2003; 23(1): 48-56.

Royer J, Adenis JP, Bernard J, Metaireau J, Reny A: Les keratoprotheses. L'Appareil lacrymal. Soc Fr Ophthalmol, Masson. 1982; pp143-150.

Ruben M: Adhesive keratoprotheses. *Trans Ophthal Soc UK* 1970; 90:551-564.

Ruberti JW, Sinha Roy A, Roberts CJ. Corneal Biomechanics and Biomaterials. *Annu. Rev. Biomed. Eng.* 2011; 13:269-95.

Ruedemann AD Jr: Silicone keratoprosthesis. *Transactions of the American Ophthalmological Society* 1974; 72:329-60.

Ruprecht KW: Keratoprotheses. "Whoever operates, has problems". *Ophthalmologe* 2002; 99(7): 511-2.

Rybkina TI: Alloplastika pri otechnykh vidakh distrofii rogovitsy (Alloplasty in the case of edematous types of corneal dystrophy). *Vestnik Oftal'mologii* 1972; 1: 6-9.



Rycroft BW: Corneal Grafts. London, Butterworth 1955.

S

Sabbagh L: Creating an artificial cornea. *Eye World*. 48; Jan 1997.

Salzer F: Uber kunstlichen Hornhautsatz. Deutsch Ophthalmologie Gesellschaft, Berlin 1895; 23: 230-235.

Sandeman SR, Lloyd AW, Tighe BJ, Franklin V, Li J, Lydon F, Liu CS, Mann DJ, James SE, Martin R.: A model for the preliminary biological screening of potential keratoprosthetic biomaterials. *Biomaterials* 2003; 24(26): 4729-39.

Sandeman SR, Faragher RG, Allen MC, Liu C, Lloyd AW: Novel materials to enhance keratoprosthesis integration. *Brit J Ophthalmol*. 2000; 84(6): 640-4.

Sandeman SR, Faragher RGA, Allen M, Liu C, Lloyd AW: Does serial passage of the embryonic keratocyte cell strain EK1.BR model the changing response of keratocytes to corneal wounding with age? *An Inst Barraquer (Barc.)* 2001; 30:167-168.

Sandeman SR, Faragher RGA, Allen M, Liu C, Lloyd AW: The effect of corneal aging on keratoprosthesis biointegration. *An Inst Barraquer (Barc.)* 2001; 30:169-170.

Santos L, Ferraz MP, Shirotsaki Y, Lopes MA, Fernandes MH, Osaka A, Santos JD. Degradation studies and biological behavior on an artificial cornea material. *Invest Ophthalmol Vis Sci*. 2011 Mar 18. [Epub ahead of print]

Sarayba M, Kurtz R.M., Nguyen Thao, Ignacio T, Mansoori M, Sweet PM, Chuck RS, Fanto-second Laser-Assisted Intracorneal Keratoprosthesis Implantation — A Laboratory Model. *Cornea* 2005; 24: 1010-1014.

Sasaki S, Funamoto S, Hashimoto Y, Kimura T, Honda T, Hattori S, Kobayashi H, Kishida A, Mochizuki M: In vivo evaluation of a novel scaffold for artificial corneas prepared by using ultrahigh hydrostatic pressure to decellularize porcine corneas. *Mol Vis*. 2009 Oct 13; 15:2022-8.

Sawatari Y, Perez VL, Parel JM, Alfonso E, Falcinelli G, Falcinelli J, Marx RE. Oral and maxillofacial surgeons' role in the first successful modified osteo-odonto-keratoprosthesis performed in the United States. *J Oral Maxillofac Surg*. 2011 Jun;69(6):1750-6. Epub 2011 Jan 6.

Sayegh RR, Ang LPK, Foster CS, Dohlman CH: The Boston keratoprosthesis in Stevens-Johnson syndrome. *Am J Ophthalmol* 2008; 145(3): 438 – 444.

Sayegh RR, Avena Diaz L, Vargas-Martín F, Webb RH, Dohlman CH, Peli E: Optical functional properties of the Boston Keratoprosthesis. *Invest Ophthalmol Vis Sci*. 2010 Feb; 51(2):857-63.

Schmid E, Leierer J, Doblinger A, Laslop A, Fischer-Colbrie R, Humpel C, Theodorsson E,



- Teuchner B, Lalehabbasi D, Dragosits E, Kunze C, Philipp W, Gottinger W, Troger J Neurokinin a is a main constituent of sensory neurons innervating the anterior segment of the eye. *Invest Ophthalmol Vis Sci.* 2005 Jan;46(1):268-74.
- Schmidbauer JM, Hess T, Biedler A, Spang S, Hille K, Ruprecht KW: Ocular injuries and triage after the bombing attack on the United States embassy in Nairobi (Kenya). *Klinische Monatsblatter fur Augenheilkunde* 2000; 217(6): 315-22.
- Schinimelpfennig B: Study on the tissue compatibility of intracorneal horn lenses in experimental animals. *Klin Monatsb Augenheilkd* 1978; 172(4): 464-9.
- Schwab I, Reyes M, Rivkah-Isseroff R: Successful Transplantation of Bioengineered Tissue Replacements in Patients with Ocular Surface Disease. *Cornea* 2000; 19(4):421-426.
- Sciscio A, Herold J, Hull C, Liu C: Early British Results of Modern Falcinelli Osteo-Odonto-Keratoprosthesis (OOKP) Surgery. *Invest Ophthalmol Vis Sci.* 1999; 40(4): S638.
- Sciscio A, Herold J, Hull C, Smith G, Liu C: Early British Results of Modern Falcinelli Osteo-Odonto-Keratoprosthesis (OOKP) Surgery. *An Inst Barraquer (Barc.)* 2001; 30:59-63.
- Serra G, Monaco B, D'Ambrosio F, Pietravalle G, Vergari M: Selection of the osteo-odonto-keratoprosthesis tooth element: The jaws computer tomography system with denta scan software. *An Inst Barraquer (Barc.)* 1999; 28(S): 125-126.
- Shah A, Brugnano J, Sun S, Vase A, Orwin E: The development of a tissue-engineered cornea: Biomaterials and culture methods. *Pediatric Research* 2008; 63(5): 535 – 544.
- Sharma N, Gupta V, Vanathi M, Agarwal T, Vajpayee RB, Satpathy G. Microbial keratitis following lamellar keratoplasty. *Cornea.* 2004 Jul; 23(5):472-8.
- Shen JH, Joos KM, Manns F, Ren Q, Fankhauser F II, Denham D, Soderberg PG, Parel J-M: Ablation rate of PMMA and human cornea with a frequency-quintupled Nd:YAG laser (213nm). *Laser Surg Med* 1997; 21:179-185.
- Shimmura S, Tsubota K. Regeneration of the cornea. *Nippon Rinsho* 2003;61(3):475-9.
- Shimmura S, Doillon CJ, Griffith M, Nakamura M, Gagnon E, Usui A, Shinozaki N, Tsubota K. Collagen-poly(N- isopropylacrylamide)-based membranes for corneal stroma scaffolds. *Cornea.* 2003 Oct;22(7 Suppl):S81-8.
- Shimmura S, Miyashita H, Uchino Y, et al.: Microkeratome assisted deep lamellar keratoprosthesis. *Br J Ophthalmol* 2006; 90(7):826 – 829.
- Shin JS, Jang IK, Kim CW, Kim JC. Related Articles, Links Development and characterization of a rabbit corneal endothelial cell line. *Jpn J Ophthalmol.* 2004 Sep-Oct; 48(5):454-9.
- Shiota H, Eguchi H, Yunoki H, Amitani H: Experimental evaluation of our ceramic keratoprosthesis in rabbits. *An Inst Barraquer (Barc.)* 2001; 30:181-182.
- Siepsner SB, Wieland M: Animal model experimentation using the expansile hydrogel intraocular



lens. *J Cataract Refract Surg* 1991; 17(4): 491-4.

Singh D, Bansel DC, Singh A: Keratoprosthesis. A clinical study. *Indian J Ophthalmol* 1973; 21/3:112-116.

Singh D: Keratoprosthesis. *Indian J Ophthalmol* 1984; 932 (5): 405-407.

Singh I: Central and paracentral perforating keratoprosthesis-An experience of 200 cases. *Refract Corneal Surg* 1993; 9:191-192.

Singh I: Keratoprosthesis: The best efforts for the worst case, Chapter 44, in: *Cataract and IOL*, by Singh D, Worst J, Sing R, Singh I, Brothers J (eds); New Delhi, First Edition, 1993.

Sipehia R, Garfinkle A, Jackson WB, Chang TM: Towards an artificial cornea: surface modifications of optically clear, oxygen permeable soft contact lens materials by ammonia plasma modification technique for the enhanced attachment and growth of corneal epithelial cells. *Biomaterials, Artificial Cells, & Artificial Organs* 1990; 18(5): 643-55.

Singh IR: Paralimbal scleral window. *An Inst Barraquer (Barc.)* 2001; 30: 91-93.

Singh IR: Management of intractable glaucoma in patients who have undergone keratoprosthesis surgery. *An Inst Barraquer (Barc.)* 2001; 30:135.

Singh IR: Management of vitreoretinal complications in patients with keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:137.

Singh IR: Management and visual recovery of a patient with bilateral silver nitrate burn. *An Inst Barraquer (Barc.)* 2001; 30:203-204.

Skelton VA, Henderson K, Liu C: Anaesthetic implications of osteo-odonto-keratoprosthesis surgery. *Euro J Anaesthesiology* 2000; 17(6): 390-4.

Sletteberg O, Hovding G, Bertelsen T: Keratoprosthesis I. Results obtained after implantation of 12 one-piece prostheses. *Acta Ophthalmol* 1990; 68:369-374.

Sletteberg O, Hovding G, Bertelsen T: Keratoprosthesis. II. Results obtained after implantation of 27 dismountable two-piece prostheses. A retrospective, follow-up study. *Acta Ophthalmologica* 1990; 68(4): 375-83.

Sletteberg O, Hovding G, Bertelsen T: Keratoprosthesis II. Results obtained after implantation of 27 dismountable two-piece prostheses. *Acta Ophthalmol* 1990; 68:375-383.

Soderberg PG, Sletteberg O, Hovding G, Bertelsen T: Keratoprosthesis in Scandinavia, current trends. *An Inst Barraquer (Barc.)* 1999; 28(S):61-62.

Soheilian M, Sajjadi H, Azarmina M, Miratashi A, Peyman G: Temporary keratoprosthesis for surgical management of complicated combined anterior and posterior segment injuries to the eye: combat- versus noncombat-injury cases. *Ophthalmic Surg* 1994; 25, 7:452-457.

Sokol A, Bertelsen T, Teigland N: The optical function of keratoprotheses. *Acta*



Ophthalmologica 1977; 55:17-33.

Sommer G: Neue Versuche zur Alloplastik der Kornea. *Klin Monatsb Augenheilkd* 1953; 122: 545-554.

Sommer G: Keratoprosthetics. *Folia Ophthalmol* 1984; 9/3:129-137, 9/4:189-202, 9/5:280-291.

Spoor TC, Ramocki JM, Cowden JW: A periosteal-temporalis fascia pedicle flap for repairing impending ocular perforations and extruding keratoprostheses. *Am J Ophthalmol* 1989; 108(6):704-8.

Srinivasan BD, Jacobiec FA, Iwanoto T, DeVoe G: Giant papillary conjunctivitis with ocular prostheses. *Arch Ophthalmol* 1979; 97/5:892-895.

Stacy RC, Jakobiec FA, Michaud NA, Dohlman CH, Colby KA. Characterization of retrokeratoprosthetic membranes in the Boston type 1 keratoprosthesis. *Arch Ophthalmol*. 2011 Mar; 129(3):310-6.

Steck EA, Uyemura MJ, Miller R: Porous polyethylene (Medpor) as an intrastromal corneal support for a keratoprosthesis. (ARVO abstract). *Invest Ophthalmol Vis Res* 1995; 36(4):S314.

Steele JG, Johnson G, McLean KM, Beumer GJ, Griesser HJ: Effect of porosity and surface hydrophilicity on migration of epithelial tissue over synthetic polymer. *J Biomed Mater Res* 2000; 50(4):475-82.

Stnuiz V, Bunte M, Gross UM, Hoffmann F, Hamisch JP, Manner K, Bromer H, Deutscher K: Glass-ceramic keratoprosthesis. [German]. *Ber Dtsch Ophthalmol Ges* 1978; (75):197-200.

Stoiber J, Csaky D, Schedle A, Ruckhofer J, Grabner G: Histopathologic findings in explanted osteo-odontokeratoprosthesis. *Cornea* 2002; 21(4):400-4.

Stoiber J, Fernandez V, Kaminski S, Lamar PD, Dubovy S, Alfonso E, Parel JM.: Biological response to a SupraDescemetic Synthetic Cornea (sDSC) in rabbits. *An Instituto Barraquer (Barc.)* 2003; 32(3-4): 237-240.

Stoiber J, Fernandez V, Lamar PD, Kaminski S, Lacombe E, Duchesne B, Alfonso E, Parel J-M. SupraDescemetic Synthetic Cornea (sDSC): Ex-Vivo Feasibility Study in Human Eye Bank Eyes. *An Instituto Barraquer (Barc.)* 2003; 32(3-4): 252-256.

Stoiber J, Forstner R, Csaky D, Ruckhofer J, Grabner G: Evaluation of bone reduction in osteo-odontokeratoprosthesis (OOKP) by three-dimensional computed tomography. *Cornea* 2003; 22(2):126-30.

Stoiber J, Fernandez V, Kaminski S, Lamar P, Parel JM: Entwicklung einer neuen Implantationstechnik zur SupraDescemetalen Implantation einer lamellären Keratoprothese. *Spektrum Augenheilk* 2004; 18: 138-141.

Stoiber J, Fernandez V, Kaminski S, Lamar P, Dubovy S, Alfonso E, Parel JM.: Biological response to a supraDescemetic synthetic cornea in rabbits. *Arch Ophthalmol*. 2004 Dec; 122(12):1850-5.



Stoiber J, Fernandez V, Lamar PD, Kaminski S, Acosta AC, Dubovy S, Alfonso E, Parel JM. Biocompatibility of a nonpenetrating synthetic cornea in vascularized rabbit corneas. *Cornea*. 2005 May;24(4):467-73.

Stoiber J, Grabner G.. Clinical Management of Sever Ocular Surface Disease. *Klin Monatsbi Aughenheilkd* 2005; 222:533-551.

Stolz AP, Kwitko S, Dal Pizzol MM, Marinho D, Rymer S: Experience with Dohlman-Doane keratoprosthesis: case reports [Portuguese]. *Arq Bras Oftalmol*. 2008 Mar-Apr;71(2):257-61.

Stone W, Herbert E: Experimental study of plastic material and replacement for the cornea. Preliminary report. *Am J Ophthalmol* 1953; 36:68-73.

Stone W: Study of patency of openings in corneas anterior to intralamellar plastic artificial discs. *Am J Ophthalmol* 1955; 39(2):185- 196.

Stone W: Alloplasty in surgery of the eye. *New England Journal of Medicine* 1958; 258:486-490, 596-602.

Stone W, Jasuda H, Refojo M: A 15-year study of the plastic artificial cornea--basic principles. In: *The Cornea*. World Congress, London, Butterworths, 1965; pp 654-671.

Stone W Jr: The plastic artificial cornea. *Proc 2nd Int Corneoplastic Conf, London, 1967; p375*.

Storm C, Pastore JJ, MacKintosh FC, Lubensky TC, Janmey PA. Nonlinear elasticity in biological gels. *Nature*. 2005 May 12;435(7039):191-4.

Strampelli B: Keratoprosthesis with osteodontal tissue. *Am J Ophthalmol* 1963; 89:1029-1039.

Strampelli B: Nouvelle orientation biologique dans la keratoprothese. *Bull Mem Soc FrOphtalmol* 1964; 77:145-161.

Strampelli B: Tecnica E Risultati Della Osteo Odonto Cheratopotesi. *SOI Proc XLIII*. 1964; 288-291.

Strampelli B: Intervencion de osteo-odonto-queratopotesis. *Arch Soc Oftal Hisp-Amer* 1965; 25:65-77.

Strampelli B, Valvo A, Tusa E: Osteo-odonto-cheratopotesi in un caso trattato per anchiloblefaron e simblefaron totale. *Annali di Ottalmologia e Clinica Oculistica* 1965; Anno XCI, No.6.

Strampelli B: Perferzionamenti tecnici della osteo-odonto-cheratopotesi. *Annali di Ottalmologia (Pavia)* 1966; 92:155-178.

Strampelli B, Valvo A: Durable mobility of ocular prosthesis. Late results of a personal technique with 18 year experience. *Am J Ophthalmol* 62:643-648, 1966.

Strampelli B: Osteo-condro-cheratopotesi in sostituzione della osteo-odontocheratopotesi nei



pazienti edentali. *Annali di Ottalmologia (Pavia)* 1967; 93: 975-978.

Strampelli B, Marchi V, Valvo A: Odonto-cherato-protesi transpalpebrate in sostituzione della osteo-odonto-cheratoprotesi in pazienti con alterazioni alveolo-dentarie. *Ann Oft Clin Ocul* 1968; Vol. XCIV, No. 1, Gennaio.

Strampelli B, Restivo M: Studi isologici di radice dentarla nella palpebra di macacus rhesus (II Parto). *Ann Oft Clin Ocul* 1969.

Strampelli B: Osteo-odonto-keratoprosthesis. *Annali di Oftalmologia (Pavia)* 1970; 96:1-57.

Strampelli B: Osteo-odonto keratoprosthesis. *Bericht Uber die Zusammenkunft der Deutschen Ophthalmologischen Gesellschaft* 1972; 71:322-35.

Strampelli B: Osteo-odonto cheratoprotesi. *Anales Instituto Barraquer* 1974-75; Vol XII: 26-141.

Strampelli B: Intervento per osteo-odonto-cheratoprotesi. Trattato di tecnica chirurgica: *Chirurgia Oculistica. UTET*, 1984; 10: 362- 370.

Strunz V, Bunte M, Gross UM, Hoffmann F, Harnisch JP, Manner K, Bromer H, Deutscher K: Glass-ceramic keratoprosthesis. *Bericht Uber die Zusammenkunft der Deutschen Ophthalmologischen Gesellschaft* 1978; (75):197-200.

Sugioka K, Fukuda M, Hibino T, Watanabe M, Ando I, Shimomura Y: Implantation of a keratoprosthesis of novel design in rabbits. *J Ophthalmology* 2004 Sep-Oct; 48(5):448-53.

Suwan-apichon O, Rizen M, Reyes JM, Herretes S, Behrens A, Stark WJ, Chuck RS. A new donor cornea harvesting technique for posterior lamellar keratoplasty. *Br J Ophthalmol.* 2005 Sep;89(9):1100-1.

Sweeney DF, Xie RZ, Evans MD, Vannas A, Tout SD, Griesser HJ, Johnson G, Steele JG: A comparison of biological coatings for the promotion of corneal epithelialization of synthetic surface in vivo. *Invest Ophthalmol Vis Sci* 2003; 44(8):3301-9.

Sweeney DF: The Max Schapero Memorial Award Lecture 2004: Contact lenses on and in the cornea, what the eye needs. *Optom Vis Sci* 2006; 83(3): 133 – 142.

Sweeney DF, Vannas A, Hughes TC, et al.: Synthetic corneal inlays. *Clin Exp Optom* 2008; 91: 56 – 66.

T

Tahi H, Parel J-M, Lacombe E: Posterior fixation keratoprosthesis and mechanical biocompatibility: Determination of critical intraocular pressure causing aqueous humor leak and/or keratoprosthesis extrusion. In: PO Rol, KM Joos, F Manns (eds) *Ophthalmic Technologies VI*, SPIE Publishers, Bellingham WA, 1997 Proc 2971:147-151.



- Tahi H, Duchesne B, Parel JM, Nose I, Denham D, Villain F, Lacombe E: Keratoprosthesis by posterior fixation and mechanical biocompatibility: determination of intraocular pressure provoking aqueous humor leak and/or extrusion *Bull Soc Belge Ophtalmol* 1998; 268:115-20.
- Tahi H, Parel J-M, Duchesne B, Lacombe E: Biocompatibility evaluation of new non-porous transparent materials for keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:157-160.
- Taloni M, Petitti V, Corazza E, Serra G: L'osteo-odonto-cheratoprotesi nel pemfigoide oculare. *Atti LXXIII Congresso Soc Oftalmol Italiana* 1993; 833-837.
- Taloni M, Falsini B, Caselli M, Micozzi I, Falcinelli G, Falcinelli GC: Parameters of Central Visual function in patients with osteo-odonto-keratoprosthesis. ARVO abstract. *Invest Ophthalmol Vis Res* 1995; 36(4):S315.
- Taloni M, Falcinelli GC, Falsini B, Filaduro P, Petitti V: Complications in Osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:69-70.
- Taloni M, Manni T, Micozzi I, Serra G, Filadoro P: Computerized tomography study of the osteo-odonto-acrylic lamina. *An Inst Barraquer (Barc.)* 1999; 28(S):145-147.
- Taloni M, Falsini B, Caselli M, Micozzi I, Piccardi M, Falcinelli GC: Assessment of central visual function in patients with osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S):133-134.
- Tan DTH, Tay ABG, Theng JTS, Lye KW, Parthasarathy A, Por YM, Chan LL, Liu C: Keratoprosthesis surgery for end-stage corneal blindness in Asian eyes. *Ophthalmology* 2008; 115(3): 503 – 510.
- Tan XW, Perera AP, Tan A, Tan D, Khor KA, Beuerman RW, Mehta JS. Comparison of candidate materials for a synthetic osteo-odonto keratoprosthesis device. *Invest Ophthalmol Vis Sci.* 2011 Jan 5;52(1):21-9. Print 2011 Jan.
- Tartakovskaya AI: Khimicheskii ozhog glaz v svete biomikroskopicheskogo issledovaniya kapillyarov perednego otdela (Chemical eye burn in the light of the biomicroscopic study of the capillaries of the anterior area). *Vestnik Oftal'mologii* 1968; 3: 32.
- Tarumi N, Watanabe A, Ueki M, Nakabayashi N, Imai Y. Studies on artificial cornea. I: Preparation and evaluation of hydrophilic polymers. *Tokyo Ika Shika Daigaku Iyo Kizai Kenkyusho Hokoku - Reports of the Institute for Medical & Dental Engineering, Tokyo Medical & Dental University Jap* 1971; 5:29-35.
- Tawakol ME, Peyman GA, Liu KR, Kaufman HE: Gore-tex soft tissue bands as scleral explant in rabbits: a preliminary histologic study. *Ophthalmic Surg* 1989; 20:199-212.
- Tay ABG, Tan DTH, Lye KW, et al.: Osteo-odonto-keratoprosthesis surgery: a combined ocular-oral procedure for ocular blindness. *Int J Oral Maxillofacial Surg* 2007; 36(9): 807 – 813.
- Tay E, Utine CA, Akpek EK. Crescentic amniotic membrane grafting in keratoprosthesis-associated corneal melt. *Arch Ophthalmol.* 2010 Jun; 128(6):779-82.



Taylor DM, Pamel GJ: Keratoprosthesis: possible utilization in developing countries. *Refract Corneal Surg* 1991; 7(6):472-3.

Teichmann KD: The artificial cornea. *Saudi Journal of Ophthalmology* 1999; 13:163-173.

Teichmann K, Wagoner M, Al-Rajhi A, Badr I, Netland P, Dohlman C: Surgical rehabilitation of end-stage ocular cicatricial pemphigoid with the Dohlman-Doane keratoprosthesis. In Suveges I, Follmann P (eds): *SOE '97, Proceedings of the XIth Congress of the European Society of Ophthalmology, Budapest (Hungary), 1-5 June 1997. Bologna (Italy) Monduzzi Editore, 1997, pages 259-262.*

Teichmann KD, al-Hussain HM, Karcioğlu ZA: Long-term complications of Strampelli's osteo-odonto-keratoprosthesis. *Australian & New Zealand Journal of Ophthalmology* 1996; 24(2):158-9.

Temprano J: Nuestra experiencia en osteo-odonto-queratoprotesis. *Arch Soc Esp Oftal* 1975; 35/8:789-804.

Temprano J: *Queratoplastias Y Queratoprotesis. Espaxs S.A. Publicaciones Medicas; 1991: 291-300.*

Temprano J: Keratoprosthesis with tibial autograft. *Refract Corneal Surg* 1993; 9:192-193.

Temprano J: Late results of osteo-odonto-keratoprosthesis and tibial keratoprosthesis. *An Inst Barraquer (Barc.)* 1998; 27 (S):53- 65.

Thoft R A, Friend J, Dohlman S N: Corneal glucosae flux. Its response to anterior chamber blockade and endothelial damage. *Arch Ophthalmol (Fr)*. 1971; 86: 685-691.

Thomas T: Considerations affecting techniques and results in keratoplasty. *Trans Ophthalmol Soc UK* 1955; 75:475-513.

Thompson KP, Hanna K, Waring GO, Gipson I, Liu Y, Gailitis RP, Johnson-Wint B, Green K: Current status of synthetic epikeratoplasty. *Refract Corneal Surg* 1991; 7(3):240-8.

Ticho U, Ben-Sira I: Artificial plastic cornea (keratoprosthesis). Review and case report. *Central African J Med* 1972; 18(2):27-8.

Tighe BJ: Ocular biomaterials: cellular surface chemical issues. *An Inst Barraquer (Barc.)* 2001; 30:161-162.

Tighe BJ, Franklin VJ, Graham C, Mann A, Guillon M: Ophthalmic biomaterials: the inflammatory role in vitronectin. *An Inst Barraquer (Barc.)* 2001; 30:221-222.

Tkachenko LI: Nash sposob keratoprotezirovaniya (Our method of keratoprosthetics). *Zbornik tezisov mezhdunarodnoi konferentsii po keratoplastike i keratoprotezirovaniyu (Collection of Papers of the International Conference on Keratoplasty and Keratoprosthetics)*. Filatov Research Institute, Odessa, 1978; pp 138-140.



- Todani A, Ciolino JB, Ament JD, Colby KA, Pineda R, Belin MW, Aquavella JV, Chodosh J, Dohlman CH. Titanium back plate for a PMMA keratoprosthesis: clinical outcomes. *Graefes Arch Clin Exp Ophthalmol* 2011 Apr 26. [Epub ahead of print]
- Todani A, Gupta P, Colby K: Type I Boston keratoprosthesis with cataract extraction and intraocular lens placement for visual rehabilitation of herpes zoster ophthalmicus: the "KPro Triple". *Br J Ophthalmol*. 2009 Jan;93(1):119.
- Tonge S, Tighe BJ: Biosurface structures: Nature's solutions to the problem of wettability or Old Mother Nature's recipes. *An Inst Barraquer (Barc.)* 2001; 30:223-224.
- Torres MF, Ruiz R: Implantation of an artificial cornea. *Am J Ophthalmol* 1963, 56:937-941.
- Torres M, Leal AG: A human cornea with a keratoprosthesis: A case report and histopathologic study. *Am J Ophthalmol* 1965; 1127- 1130.
- Traish AS, Chodosh J. Expanding application of the Boston type I keratoprosthesis due to advances in design and improved post-operative therapeutic strategies. *Semin Ophthalmol*. 2010 Sep-Nov; 25(5-6):239-43. Review.
- Trinkhaus-Randall V, Cappechi J, Banwatt R, Sammon L, Leibowitz HM, Franzblau C: Development of biopolymeric keratoprosthesis: epithelial adhesion in vitro and in vivo. *ARVO Abstracts. Invest Ophthalmol Vis Sci* 1987; 28 (suppl):54.
- Trinkhaus-Randall V, Cappechi J, Newton A, Vadasz A, Leibowitz H, Franzblau C: Development of a biopolymeric keratoprosthesis material. Evaluation in vitro and in vivo. *Invest ophthalmol Vis Sci* 1988; 29:393-400.
- Trinkaus-Randall V, Cappechi J, Sammon L, Gibbon D, Leibowitz HM, Franzblau C: In vitro evaluation of fibroplasia in a porous polymer. *Invest Ophthalmic Vis Sci* 1990; 31:1321-1326.
- Trinkaus-Randall V, Banwatt R, Cappechi J, Leibowitz HM, Franzblau C: In vivo fibroplasia of a porous polymer in the cornea. *Invest Ophthalmol Vis Sci* 1991; 32:3245-3251.
- Trinkhaus-Randall V: A Basic science approach to the development of a keratoprosthesis. *Refract Corneal Surg* 1993; 9:208.
- Trinkaus-Randall V, Banwatt R, Wu XY, Leibowitz HM, Franzblau C: Effect of pre-treating porous webs on stromal fibroplasia in vivo. *J Biomed Mat Res* 1994; 28:195-202.
- Trinkaus-Randall V, Wu XY, Tablante R, Tsuk A. Implantation of a synthetic cornea: design, development and biological response. *Artificial Organs* 1997; 21(11):1185-91.
- Trinkaus-Randall V, Nugent MA. Biological response to a synthetic cornea. *Journal of Controlled Release* 1998; 53(1-3):205-14.
- Tseng S, De-Quan L, Merritt J, Ding F: Modulation of epithelial growth by stromal fibroblasts in corneas. *Refract Corneal Surg* 1993; 9:210-211.
- Tsubota K, Satake Y, Ohyama M, Toda I, Takano Y, Ono M, Shinozaki N, Shimazaki J:



Surgical reconstruction of the ocular surface in advanced ocular cicatricial pemphigoid and Stevens-Johnson syndrome. *Am J Ophthalmol* 1996; 122(1):38-52.

Tsui I, Uslan DZ, Hubschman JP, Deng SX: Nocardia farcinica Infection of a Baerveldt Implant and Endophthalmitis in a Patient With a Boston Type I Keratoprosthesis. *J Glaucoma*. 2009 Oct 22.

Tsuk AG, Trinkhaus-Randall V, Leibowitz HM: Ultraviolet light absorbing material for keratoprosthesis. *Invest Ophthalmol Vis Res* 1995; 36(4):S315.

Tsuk AG, Trinkhaus-Randall V, Leibowitz HM: Advances in polyvinyl alcohol hydrogel keratoprostheses: protection against ultraviolet light and fabrication by a molding process. *J Biomed Mater Res* 1997; 34:299-304.

Tuft SJ, Shortt AJ: Surgical rehabilitation following severe ocular burns. *Eye (Lond)*. 2009 Oct; 23(10):1966-71.

Turss R, Friend J, Dohlman CH: Effect of corneal fluid barrier on nutrition of the epithelium. *Exp Eye Res* 1970; 9:254.

U

Uchino Y, Shimmura S, Miyashita H, et al.: Amniotic membrane immobilized poly(vinyl alcohol) hybrid polymer as an artificial cornea scaffold that supports a stratified and differentiated corneal epithelium. *J Biomed Mater Research Part B – Applied Biomaterials* 2007; 81B: 201 – 206.

Uhlig CE, Gerding H: Fibrin sealing improves stability of corneal prostheses during vitreoretinal procedures. *Retina* 2003; 23(2):209- 14.

Ushakov NA: Nekotorye predposylki k primeneniyu alloplastiki rogovitsy v klinike (eksperimental'noe issledovanie) (Some prerequisites of the employment of corneal alloplasty clinically experimental researches). In: Materialy 2-go vsesoyuznogo s"ezda oftal'mologov (Papers of the Second All-Union (Congress of Ophthalmologists). Ministry of Health of the USSR, Moscow, 1968; pp 425-426.

Ushakov NA: Keratoprotezirovaniye v eksperimente i klinike (Keratoprosthetics experimentally and clinically). In: Tezisy dokladov 2-oi eningradskoi mezhoblastnoi konferentsii oftal'mologov (Papers of the Second Leningrad Interregional Conference of Ophthalmologists). Leningrad, 1970; pp 70-71.

Ushakov NA: Skvoznnoe keratoprotezirovaniye. Voprosy vosstanovitel'noi oftal'mokhirurgii (Penetrating keratoprosthetics. Questions of restorative ophthalmosurgery). In: Trudy voenno-meditsinskoi akademii im. Kirova (Proceedings of the Kirov Military Medical Academy). Kirov Military Medical Academy, Leningrad, 1972; v 191, pp 127-132.

Ushakov NA: O vybore ratsional'nogo sposoba ukrepleniya bel'ma v interesakh skvoznogo keratoprotezirovaniya (On the selection of a rational method of strengthening the leukoma in the



interests of penetrating keratoprosthetics). In: *Materialy 4-go s'ezda oftal'mologov SSSR* (Papers of the Fourth Congress of Ophthalmologists of the USSR). Ministry of Health of the USSR, Moscow, 1973; v 2, pp 634-636.

Usui M: Studies on the osteo-keratoprosthesis in the rabbit eye. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1970; 74(8):664-70.

Usui M: Studies on the osteo-keratoprosthesis in the rabbit eye. 2. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1971; 75(10):2091-9.

Usui M: Studies on the osteo-keratoprosthesis in the rabbit eye. 3. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1971; 75(11):2137-47.

Usui M: The osteo-keratoprosthesis for the clinical use. *Nippon Ganka Gakkai Zasshi - Acta Societatis Ophthalmologicae Japonicae* 1971; 75(12):2199-206.

Utine CA, Gehlbach PL, Zimmer-Galler I, Akpek EK. Permanent keratoprosthesis combined with pars plana vitrectomy and silicone oil injection for visual rehabilitation of chronic hypotony and corneal opacity. *Cornea*. 2010 Dec;29(12):1401-5.

Utine CA, Tzu JH, Akpek EK. Lamellar keratoplasty using gamma-irradiated corneal lenticules. *Am J Ophthalmol*. 2011 Jan;151(1):170-174.e1. Epub 2010 Dec 8.

V

Vajaranant TS, Blair MP, McMahon T, Wilensky JT, de la Cruz J. Special considerations for pars plana tube-shunt placement in Boston type 1 keratoprosthesis. *Arch Ophthalmol*. 2010 Nov; 128(11):1480-2.

Valvo A: Riadattamento alla visione in età adulta, dopo osteo-odonto-cheratoprosesi di strampelli, in casi di cecità giovanile e dalla prima infanzia. *Annali di Ottalmologia e Clinica Oculistica*, 1966; Anno XCII, No. 10.

Valvo A, Ponzo E: Particolari fenomeni percettivi e allucinazioni nel recupero della visione dopo cecità di lunghissima durata. *Annali di Ottalmologia e Clinica Oculistica*, 1967; Vol. XCIII, No 1.

Valvo A, Berti S: Construction and application of corneo-scleral shells in patients treated with Strampelli's osteo-odonto- keratoprosthesis. (Technical data and opticophysiological problems). *Annali di Ottalmologia e Clinica Oculistica* 1967; 93(10):1067-74.

Valvo A: Possibilità e limiti di recupero visivo, nella cecità congenita ed in quella giovanile della durata di circa mezzo secolo, dopo l'operazione di osteo-odonto-cheratoprosesi di Strampelli. *Annali di Ottalmologia e Clinica Oculistica* 1968; 94(12):1587-610.

Valvo A: Sight restoration after long-term blindness: The problems and behavior patterns of visual rehabilitation. *American Foundation for the Blind*, 1971.



Van Andel P, Cuperus P, Kolenbrander M, Singh D, Worst J: A glass-platinum keratoprosthesis with peripheral episcleral fixation: results in the rabbit-eye. Transactions Third World Biomaterials Congress, April 21-25, 1988, Kyoto, Japan, p.542.

Van Andel P, Singh I, Worst J, Bartman P: Nieuwenhuis, Artificial Corneas in India? Results of clinical trials of PMMA versus glass/stainless steel keratoprostheses in 72 cornea-blind patients. Transactions Fourth World Biomaterials Congress, April 24-28, 1992, Federal Republic of Germany, p. 486.

Van Andel P: Results of champagne cork keratoprostheses in 127 corneal blind eyes. *Refract Corneal Surg* 1993; 9:189-190.

Van Andel MV, Worst J, Singh I: Artificial corneas for the third world? The best efforts for the worst cases: The first clinical trials of low cost "Champagne Cork" keratoprosthesis of PMMA, glass/stainless steel and polycarbonate in 102 corneal-blind patients in Amristar, Punjab (India). *An Inst Barraquer (Barc.)* 1999; 28(S):177-179.

Varano M, Taloni M, Coppi A, Micozzi I, Terrana M: Scanning laser ophthalmoscope in osteo-odonto-keratoprosthesis. *An Inst Barraquer (Barc.)* 1999; 28(S):141-144.

Vega F, Alba-Bueno F, Millán MS. Energy distribution between distance and near images in apodized diffractive multifocal intraocular lenses. *Invest Ophthalmol Vis Sci*. 2011 Jun 8. [Epub ahead of print]

Vega F, Millán MS, Wells B: Spherical lens versus aspheric artificial cornea for intraocular lens testing. *Opt Lett*. 2010 May 15; 35(10):1539-41.

Viitala R, Franklin V, Green D, Liu C, Lloyd A, Tighe B: Towards a synthetic osteo-odonto-keratoprosthesis. *Acta Biomater*. 2009 Jan;5(1):438-52.

Vijayasekaran S, Hicks CR, Chirila TC, Fitton JH, Clayton AB, Lou X, Platten S, Crawford GJ, Constable IJ: Histologic Evaluation During Healing of Hydrogel Core-and-Skirt Keratoprostheses in the Rabbit Eye. *Cornea* 1997; 16(3): 352-359.

Vijayasekaran S, Fitton JH, Hicks CR, Chirila TV, Crawford GJ, Constable IJ: Cell viability and inflammatory response in hydrogel sponges implanted in the rabbit cornea. *Biomaterials* 1998; 19(24): 2255-2267.

Vijayasekaran S, Chirila TV, Robertson TA, Lou X, Fitton JH, Hicks CR, Constable IJ: Calcification of poly(2-hydroxyethyl methacrylate) hydrogel sponges implanted in the rabbit cornea: a 3-month study. *J Biomater Sci Polymer Ed*. 2000; 11(6):599- 615.

Vijayasekaran S, Robertson T, Hicks C, et al. Histopathology of long-term Cardona keratoprosthesis: a case report. *Cornea (United States)*, Mar 2005, 24(2) : 233-7

Villain F, Hostyn P, Kuhne F, Parel JM: Polyethylene oxide hydrogel & siloxane polymers for cornea refractive surgery. 10th Congress of European Society of Cataract and Refractive Surgery 1992; 10: 137.



Villain F, Parel JM: Polymers for keratoprosthetic devices. *Refract Corneal Surg* 1993; 9:211-212.

Villain F, Lacombe E, Legeais J-M, Bos G, Rol P, Parel J-M: Design Improvement in keratoprosthesis. *Ophthalmic Technologies IV*, J-M Parel, Q. Ren, ed. Proc SPIE publishers Bellingham WA, Vol. 2126: pp. 346-352, 1994.

Vodovozov AM: Alloplastika rogovitsy akrilovoi plastmassoi (Corneal alloplasty with acrylic plastic). *Byulleten' Eksperimental'noi biologii* 1964; 7:116-118.

Volker-Dieben HJM: A 5-year follow-up of 22 eyes with a champagne cork keratoprosthesis. *Refract Corneal Surg* 1993; 9:190-191

Volkov VV, Ushakov NA: O vybore ratsional'nogo sposoba ukrepleniya bel'ma v interesakh skvoznogo keratoprotezirovaniya (On the selection of a rational method of strengthening the leukoma in the interests of penetrating keratoprosthetics). In: *Voprosy vosstanovitel'noi oftal'mologii* (Questions of Restorative Ophthalmology). Leningrad, 1972; p 37.

Volkov VV, Ushakov NA: Oslozhneniya posle operatsii skvoznogo keratoprotezirovaniya, preduprezhdenie i lechenie ikh (Complications after the operation of penetrating keratoprosthetics, their prevention and treatment). *Oftal'mologicheskii Zhurnal* 1976; 8: 569-572.

Volkov VV, Ushakov NA: O pokazaniyakh, tekhnike, klinicheskikh i reabilitatsionnykh aspektakh kerato- i fakoprotezirovaniya (On indications, technique, clinical and rehabilitative aspects of kerato- and phacoprosthetics). *Oftal'mologicheskii Zhurnal* 1979; 7:399-403.

Von Fischern T, Langefeld S, Reim M, Schrage NF: Properties of the Aachen keratoprosthesis. Joint European Research meetings in Ophthalmology and Vision (JERMOV), Montpellier, 10/9-13, 1996. *Vis Res* 1996; 36(S).

Von Fischern T, Langefeld S, Yuan L, Volcker N, Reim M, Kirchhof B, Schrage NF: Development of a surface modified silicon- keratoprosthesis with scleral fixation. *Acta Chir Hung* 1998; 37(3-4):219-25.

Von Fischern T, Langefeld S, Yuan L, Volcker N, Reim M, Kirchhof B, Schrage NF: The "Aachen" keratoprosthesis: a new approach towards successful keratoprosthesis-surgery. *Int J Artif Organs* 1999; 22(1):52-7.

Vrana E, Builles N, Hindie M, et al: Contact guidance enhances the quality of a tissue engineered corneal stroma. *J Biomed Mater Research Part A* 2008; 84A(2): 454 – 463.

Vrana NE, Builles N, Justin V, Bednarz J, Pellegrini G, Ferrari B, Damour O, Hulmes DJ, Hasirci V: Development of a reconstructed cornea from collagen-chondroitin sulfate foams and human cell cultures. *Invest Ophthalmol Vis Sci*. 2008 Dec; 49(12):5325-31



Wapner FJ, Srinivasan BD: Calcific band keratopathy on a keratoprosthesis. *Cornea* 1993; 12(1):72-3.

Watson JS, Tran TT, Porfilio WL, Landers MB 3rd. Maintaining a watertight globe while operating with a temporary keratoprosthesis. *Retina*. 2011 Mar 9. [Epub ahead of print]

Weekers JF: A new kind of keratoprosthesis. *Bull Soc Belge Ophthalmol* 1993; 247(1):25-754.

Weichel ED, Bower KS, Colyer MH: Chorioretinectomy for perforating or severe intraocular foreign body injuries. *Graefes Arch Clin Exp Ophthalmol*. 2010 Mar;248(3):319-30.

Werbin TP, Peiffer RL, Binder PS, McCarey BE, Patel AS: Eight years experience with Permalens intracorneal lenses in nonhuman primates. *Refractive Corneal Surg* 1992; 8(1):12-22.

Wiedemann P, Konen W, Heimann K: Reconstruction of the anterior and posterior segment of the eye after massive injury. *German J Ophthalmol* 1994; 3(2):84-9.

Whitehart DR, Parikh CH, Vaughn AV, Mishler K, Edelhauser HF. Evidence suggesting the existence of stem cells for the human corneal endothelium. *Mol Vis*. 2005 Sep 26;11:816-24.

White JH, Gona O: Proplast for keratoprosthesis. *Ophthalmic Surg* 1988; 19:331-342.

White TC: New prosthetic graft using corneal tissue haptic in a rabbit surgical model. *An Inst Barraquer (Barc.)* 2001; 30:215-218.

Wolter JR, Meyer RF: Sessile macrophages forming a clear endothelium-like membrane on the inside of successful keratoprosthesis. *Graefe's Arch Clin Exp Ophthalmol* 1985; 222:109-111.

Worst JG F: 23 years of Keratoprosthesis Research: Present state of art. *Refract Corneal Surg* 1993; 9:188-189.

Worst J: Manual: A simplified surgical technique for keratoprosthesis insertion, (1993).

Worst JGF, Van Andel MV: The worst keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:85-86.

Wu XY, Tablanie R, Tsuk A, Leibowitz HM, Trinkhaus-Randall V: Evaluation of a synthetic cornea in vivo. *Invest Ophthalmol Vis Res* 1995; 36(4):S315.

Wu XY, Tsuk A, Leibowitz HM, Trinkhaus-Randall V: Comparison of three different porous materials intended for use in a keratoprosthesis. *Invest Ophthalmol Vis Sci* 1996; 37(3):S316.

Wu XY, Tsuk A, Leibowitz HM, Trinkhaus-Randall V: In vivo comparison of three different porous materials intended for use in a keratoprosthesis. *Br J Ophthalmol* 1998; 82(5):569-76.

Wu X, Trinkhaus-Randall V, Tsuk A.. Keratoprosthesis design and biological response to a synthetic cornea. *Chung-Hua Yen Ko Tsa Chih [Chinese Journal of Ophthalmology]* 2001; 37(6):462-4.



Xie RZ, Stretton S, Sweeney DF. Artificial cornea: towards a synthetic onlay for correction of refractive error. *Biosci Rep* 2001; 21(4):513-36.

Xu FL, Li YB, Deng YP, Xiong J: Porous nano-hydroxyapatite/poly(vinyl alcohol) composite hydrogel as artificial cornea fringe: characterization and evaluation in vitro. *J Biomater Sci - Polymer Edition* 2008; 19(4): 431 – 439.

Xu FL, Li YB, Yao XM, et al.: Preparation and in vivo investigation of artificial cornea made of nano-hydroxyapatite/poly (vinyl alcohol) hydrogel composite. *J Mater Sci – Materials in Medicine* 2007; 18(4): 635 – 640.

Y

Yaghouti F, Dohlman CH: Innovations in keratoprosthesis: proved and unproved. *Int Ophthalmol Clin* 1999; 39(1):27-36.

Yaghouti F, Nouri M, Fung WC, Power WJ, Doane MG, Dohlman CH: Preoperative Prognostic Categories In Keratoprosthesis. *Invest Ophthalmol Vis Sci* 1999; 40(4):S638.

Yaghouti F, Nouri M, Abad JC, Power WJ, Doane MG, Dohlman CH: Keratoprosthesis: Preoperative prognosis categories. *Cornea* 2001; 20(1): 19-23.

Yaghouti F, Nouri M, Fung WC, Power WJ, Doane MJ, Dohlman CH: Preoperative prognostic factors in keratoprosthesis. *An Inst Barraquer (Barc.)* 2001; 30:207-208.

Yakimenko SA, Logai IM: [State of art of the open keratoprosthesis (literature review). Sostoianie problemy skvoznogo protezirovaniia. *Oftalmologicheskii Zhurnal* 1974; 29(6):409-416.

Yakimenko SA: Methods for strengthening of leukoma in keratoprosthesing and a study of their effectivity in remote terms. *Oftalmologicheskii Zhurnal* 1984; 39(7):406-410.

Yakimenko SA: Optic penetrating keratoprosthesis using new models of corneal prostheses. *Ophthalmol Zh* 1985; 36:102-104.

Yakimenko SA: Methods for optical keratoprostheses, the indications, potentials and results of their use. *Ophthalmol Zh* 1985; 36:134-137.

Yakimenko S: Results of a PMMA/Titanium keratoprosthesis in 502 eyes. *Refract Corneal Surg* 1993; 9:197-198.

Yakimenko SA: Keratoprosthesis in treatment of terminal stages of edematous bullous keratopathy. *An Inst Barraquer (Barc.)* 2001; 30:87-88.

Yamada KM: Cell surface interactions with extracellular materials. *Ann Rev Biochem* 1983; 52:2-26.



Yan H, Cui J, Zhang J, et al.: Penetrating keratoplasty combined with vitreoretinal surgery for severe ocular injury with blood-stained cornea and no light perception. *Ophthalmologica* 2006; 220(3): 186 – 189.

Yan T, Sun R, Deng H, Tan B, Ao N: The morphological and biomechanical changes of keratocytes cultured on modified p (HEMA-MMA) hydrogel studied by AFM. Scanning. 2009 Nov; 31(6):246-52.

Yeroshevsky TI Cherkunov BF, Malov VM: Skvozhnoe keratoprotezirovanie u bol'nykh s 'beznadezhnymi' bel'mami (Penetrating keratoprosthetics in patients with 'hopeless' leukomas). In: Zbornik tezisov mezhdunarodnoi konferentsii po keratoplastike i keratoprotezirovaniyu (Collection of papers of the International Conference on Keratoplasty and Keratoprosthetics). Filatov Research Institute, Odessa, 1978; pp 129-131.

Yildiz EH, Saad CG, Eagle R, Ayres BD, Cohen EJ: The Boston keratoprosthesis in 2 patients with autoimmune polyendocrinopathy-candidiasis-ectodermal dystrophy. *Cornea*. 2010 Mar;29(3):354-6.

Yiu SC, Thomas PB, Nguyen P: Ocular surface reconstruction: recent advances and future outlook. *Curr Opin Ophthalmol* 2007; 18(6): 509 – 514.

Yoshaki Takemoto, Matsuda T, Kisimoto T, Maekawa M, Akutsu T: Molecular understanding of cellular adhesion on artificial surfaces. *Trans Am Soc Artif Intern Organs* 1989; 35:354-365.

Yu J, Huang Y. Keratoprosthesis in China. *Am J Ophthalmol*. 2010 Aug; 150(2):291.

Yu J, Huang Y, Song J, Wang L, Wang F. Keratoprosthesis sterile vitritis. *Ophthalmology*. 2011 Jan; 118(1):221.

Yuan J, Chen JQ, Zhou SY, Wang ZC, Huang T, Gu JJ, Shao YF: The effects of transplantation of compound keratoprosthesis in clinical practice and managements of complications after operation [Chinese]. *Zhonghua Yan Ke Za Zhi*. 2009 Feb;45(2):104-9.

Z

Zakharov VD, Fyodorov SN, Bedilo VYa: Zameshchenie steklovidnogo tela silikonovoi zhidkost'yu (Replacement of the vitreous body with silicone liquid). *Vestnik Oftal'mologii* 1965; 5:83.

Zechner E, Petek W. Immunologic behavior of an artificial cornea. *Klinische Monatsblätter für Augenheilkunde* 1971; 158(3):390-5.

Zerbe BL, Belin MW, Ciolino JB: Results from the multicenter Boston type 1 keratoprosthesis study. *Ophthalmology* 2006; 113(10): 1779 – 1784.

Zhao H, Xie D, Zou H: Current researches in keratoprosthesis. *Sheng Wu Yi Xue Gong Cheng Xue Za Zhi* 2002; 19(1):112-6.



Zhivotovsky DS, Vishnevsky FE: Morfologicheskie izmeneniya rogovitsy krolikov pri implantatsii v ee sloi plastmassovykh protezov razlichnykh razmerov, formy i refraktsii (Morphological changes in the rabbit cornea when plastic prostheses of different size, shape and refraction are implanted into its layers). *Oftal'mologicheskii Zhurnal* 1972; 4:267-271.

Ziegelaar BW, Fitton JH, Clayton AB, Platten ST, Steer J, Chirila TV: The modulation of cellular responses to poly (2- hydroxyethyl methacrylate) hydrogel surfaces: phosphorylation decreases macrophage collagenase production in vitro. *J. Biomater. Sci. Polym. Edn* 1998; 9(8): 849-862.

Ziegelaar BW, Fitton JH, Clayton AB, Platten ST, Maley MAL, Chirila TV: The modulation of corneal keratocyte and epithelial cell responses to poly(2-hydroxyethyl methacrylate) hydrogel surfaces: phosphorylation decreases collagenase production in vitro. *Biomaterials* 1999; 20(21): 1979-1988.

Zorlutuna P, Tezcaner A, Kiyat I, et al.: Cornea engineering on polyester carriers. *J Biomed Mater Research Part A* 2006; 79A: 104 – 113.

Zuev VK: Keratoprotezirovaniye tyazhelykh bel'm (Keratoprosthetics of severe leucomas). In: Rezul'taty klinicheskikh i eksperimental'nykh issledovaniy (Results of Clinical and Experimental Research). *Meditsina*, Moscow, 1973; pp 87-89.

Zuev VK: Skvoznoe keratoprotezirovaniye rogovoi obolochki pri ozhogovykh bel'makh (Penetrating keratoprosthetics of the cornea in the case of burn leukomas). Author's abstract of his dissertation for a candidate's degree (medicine). Dental Institute, Moscow, 1974.

Zuev VK, Begunova GB: Determination of image quality of the optic part of penetrating keratoprostheses in the units of visual acuity. *Oftalmologicheskii Zhurnal* 1975; 30(2):114-6.

Zuev VK, Moroz ZI, Glazko VI: Zarastaniye opticheskogo tsilindra keratoproteza i metody ego ustraneniya (Overgrowth of the optical cylinder of a keratoprosthesis and the methods of eliminating it). In: Aktual'nye voprosy sovremennoi oftal'mokhirurgii (Important Questions of Present-day Ophthalmosurgery). *Meditsina*, Moscow, 1977; pp 57-59.