

REFERENCES

- Adachi S, Maruyama T, Kondo T, Todoroki T and Fukao K (1999):** The prevention of post operative intraperitoneal adhesions by tranilast: N-(3', 4'-dimethoxycinnamoyl)anthranilic acid. *Surg Today*;29:51-4.
- Addicks E, Quigley H and Green W (1983):** Histologic characteristics of filtering blebs in glaucomatous eyes. *Arch Ophthalmol* ;101:795-8.
- Ahmed I, (2011):** Ultrasound Biomicroscopy & Glaucoma Care, *Ophthalmology managemet* 1: 32-34.
- Akova Y, Kos F, Yalvac I and Duman S (1999):** Scleromalacia following trabeculectomy with intraoperative mitomycin-C. *Eur J Ophthalmol*;9:63-65.
- Anderson D, Jin J and Wright M (1991):** The physiologic characteristics of relative pupillary block. *Am J Ophthalmol* 15; 111(3): 344-350.
- Asano-Kato N, Fukagawa K, Okada N, Kawakita T, Takano Y, Dogru M, Tsubota K and Fujishima H. (2005):** (TGF-beta1, IL-1beta, and Th2 cytokines stimulate vascular endothelial growth factor production from conjunctival fibroblasts. *Exp Eye Res*; 80(4):555-560.
- Avitabile T, Uva M, Russo V, Ott J, Paulick B and Reibaldi A (1998):** Evaluation of the filtering bleb using ultrasound biomicroscopy. *Klin Monatsbl Augenheilkd* Feb;212(2):101-5

- Bamber J (1986):** Attenuation and absorption. In Hill C.R. Physical principles of medical ultrasonics. London, Ellis Horwood limited, chapter 4.
- Beckers H, Kinders K and Webers C (2003):** Five- year results of trabeculectomy with mitomycin C. Graefes Arch Clin Exp Ophthalmol Feb; 241 (2): 106-10.
- Belyea D, Dan J, Stamper R and Lieberman M (1997):** Spincer WH:Late onset multifocal sequential bleb leaks after glaucoma filtration surgery with 5-fluorouracil and mitomycin-c. Am J Ophthalmol; 124: 40-45.
- Blakytyn R, Ludlow A and Martin G (2004):** Latent TGF beta-1 activation by platelets. J Cell Physiol.;1991:67–76.
- Bochmann F, Kaufmann C and Becht N (2011):** Isrctn 12125882- influence of topical anti- VEGF (Ranibizumab) on the outcome of filtration surgery for glaucoma- Study Protocol, BMC Ophthalmol; 11:1.
- Brown L (1992):** Ferroelectric polymers, Current and future applications. IEEE Ultrasonics Symposium Proceedings; 539-545.
- Caronia R, Liebman J, Friedman R, Cohen H Rich R (1994):** trabeculectomy at the inferior limbus. Arch Ophthalmol;114: 387-391.
- Chang L, Crowston J, Corderio M, Akbar A and Khaw P (2000):** The role of the immune system in conjunctival wound healing after glaucoma surgery. Surv Ophthalmol.;45:49–68.

- Cordeio M, Gay J and KHaw P (1999):** Human anti-transforming growth factor-beta 2 antibody: a new glaucoma anti-scarring agent. *Invest Ophthalmol Vis Sci*;40: 2225-34.
- Crowston J, Akbar A, Constable P, Occleston N, Daniels J and Khaw P (1998):** Antimetabolites-induced apoptosis in Tenon's capsule fibroblasts *Invest. Ophthalmol Vis Sci* ;39:449-454.
- DeBry P, Perkins T and Heatley G (2002):** Incidence of late-onset bleb-related complications following trabeculectomy with mitomycin. *Arch Ophthalmol* ;120:297–300.
- DeStafeno J and Kim T (2007):** Topical bevacizumab therapy for corneal neovascularization. *Arch Ophthalmol* 2007;125(6):834-836.
- Diaz G, Rodriguez M and San J (2001):** Incidence of encapsulated bleb after filtering surgery, [Arch Soc Esp Oftalmol](#). May;76(5):279-84.
- El-basty M, Elboshy M, Bakir M and Saad A (1994):** The use of mitomycin C as an adjunct in glaucoma filtration surgery: experimental and clinical study. *Bull ophthalmol soc, Egypt*, 45: 49-68.
- El-basty, El Din K, Attia E and El cheweich M (2004):** Evaluation of the filtering blebs using ultrasound biomicroscopy: thesis, library of Cairo university.

Esson D, Neelakantan A, Iyer S and Blalock T, Balasubramanian L, Grotendorst G and Schultz G (2004): Expression of connective tissue growth factor after glaucoma filtration surgery in a rabbit model. *Invest Ophthalmol Vis Sc*; 45: 485-91.

Ewing R and Stamper R (1990): Needle revision with and without 5-fluorouracil for treatment of failed filtering blebs. *Am J Ophthalmol*; 110:25.

Five-year follow-up of the Fluorouracil Filtering Surgery Study (1996): The Fluorouracil Filtering Surgery Study Group, *Am J Ophthalmol*; 121(4):349-366.

Foster F and Brown L (1992): Ferroelectric polymers, Current and future applications. *IEEE Ultrasonics Symposium Proceedings*; 539-545.

Foster F, Harasiewicz K and Sherar M (2000): A history of medical and biological imaging with polyvinylidene fluoride (PVDF) transducers. *IEEE Trans Ultrason Ferroelectr Freq Control*; 47: 1363–1371.

Foster F, Pavlin C, Lockwood G, Ryan L, Harasiewicz K, Berube L and Rauth A (1993): Principles and applications of ultrasound backscatter microscopy. *IEEE, Trans, UFFC*, 40: 608-617.

Francesca C, Jennifer A and Peng T (2008): Human anti-transforming growth factor- β 2 antibody: a new Glaucoma anti-Scarring agent. *Investigative Ophthalmology and Visual Science*; 40: 2225-223.

- Fujita H (1982):** Pharmacokinetics of mitomycin C and its derivative (KW-2083) [in Japanese]. *Gan To Kagaku Ryoho*;9 :1362–73.
- Gao Y, Gaudreault J, Fei D, Rusit J, Suboc P, Shiu V. (2005):** Preclinical pharmacokinetics of Ranibizumab " (rhuFabV2) after a single intravitreal administration. *Invest Ophthalmol Vis Sci.* 2005;46(2):726-733.
- Gordon M and Cunningham D. (2005):** Managing patients treated with bevacizumab combination therapy. *Oncology.*; 69(Suppl 3):25-33.
- Greenfield D, Liebman J, Jee J and Rrch, R. (1998):** Late-onset bleb leaks after glaucoma filtering surgery. *Arch Ophthalmol*;116: 443-447.
- Grehn F, Mauthe S, Pfeiffer N. (1989):** Limbus-based versus fornix-based conjunctival flap in filtering surgery. *Int Ophthalmol.* 1989; 13: 139–143.
- Grotendorst G, Okochi H and Hayashi N (1996):** A novel transforming growth factor beta response element controls the expression of the connective tissue growth factor gene. *Cell Growth Differ* ; 7: 469-480.
- He S and Wall A (1998):** Human mast cell chymase induces the accumulation of neutrophils, eosinophils and other inflammatory cells in vivo. *Br J Pharmacol.*;125:1491–500.
- Health M (1999):** An introduction to ultrasound physics for general practitioners retrieved from <http://www.sci.port.ac.uk.com>.

- Higashide T, Higginbotham J and Lee A (2004):** Clinical guide to glaucoma management, 494- 499.
- Huang C, Liu B and Brezinski M (2008):** Ultrasound-enhanced optical coherence tomography: improved penetration and resolution. J Opt Soc Am: 938-946.
- Iran J, Rak J, Sheehan C, Saibil S, LaCasse E, Korneluk R and Kerbel R. (1999):** Marked induction of the IAP family antiapoptotic proteins survivin and XIAP by VEGF in vascular endothelial cells. *Biochem Biophys Res Commun* ;264(3):781-788.
- Irani A, Burutus S, Tabbara K and Schwartz L(1990):** Human conjunctival mast cells: distribution of MCT and MCTC in vernal conjunctivitis and giant papillary conjunctivitis. J Allergy Clin Immunol.;86:34–40.
- Ishikawa H and Schuman J(2004):** Anterior segment imaging: ultrasound biomicroscopy. *Ophthalmol Clin N Am*; 17: 7-20.
- Ito S, Sakamoto T and Tahara Y (1999):** The effect of tranilast on experimental proliferative vitreo-retinopathy. *Graef Arch Clin Exp Ophthalmol*; 273: 691-696.
- Jampel H (1992):** Effect of brief exposure to mitomycin C on viability and proliferation of cultured human Tenon's capsule fibroblasts. *Ophthalmology*; 99:1471-1476
- Jampel H, Mc Guigan L, Pepos J and Quigley H (1987):** Biology of experimental glaucoma filtration surgery. *Invest Ophthalmol Vis Sci*; 28; 378-381.

- Jinza K, Saika S, Kin K and Ohnishi Y(2000):** Relationship between formation of a filtering bleb and intrascleral aqueous drainage route after trabeculectomy :evaluation using ultrasound biomicroscopy. *Ophthalmic Res.* Sep-Oct;32(5):240-3
- Kahook M, Schuman J and Noecker R (2006):** Needle bleb revision of encapsulated filtering bleb with bevacizumab. *Ophthalmic Surg Lasers Imaging.* 2006;37(2):148-150.
- Kahook M, Schuman J and Noecker R. (2006):** Intravitreal bevacizumab in a patient with neovascular glaucoma. *Ophthalmic Surg Lasers Imaging*;37(2): 144-146.
- Katz, G, Higginbotham E, Lhchter P, Skuta G, Musch D, Bergstrom T and Johnason, A.T. (1995):**Mitomycin-C versus 5-Fluorouracil in high risk glaucoma filtration surgery. *Ophthalmology*; 102: 1263-1269.
- Kay E, Lee H, Park K and Lee S (1998):** Indirect mitogenic effect of transforming growth factor-beta on cell proliferation of subconjunctival fibroblasts. *Invest. Ophthalmol Vis Sci* ; 39: 481-486.
- Khairy H, Atta H, Green H, Der Hoek J and Blanco A (2005):** Ultrasound biomicroscopy in deep sclerectomy, *Eye* 19, 555-560.
- Khaw P, Doyle J, Sherwood N, Smith M and McGurr Y (1993):** Prolonged localized tissue effect from 5-minutes exposure to 5-Fluorouracil and Mitomycin-C. *Arch Ophthalmol*; 11: 263-267.

- Kitazawa Y, Kawase K, Matsushita H and Minobe M (1991):** Trabeculectomy with mitomycin. A comparative study with fluorouracil. *Arch Ophthalmol.*;109:1693–8.
- Kitazawa Y, Suemori-Matsushita H, Yamamoto T and Kawase K (1993):** Low dose and high dose mitomycin trabeculectomy as an initial surgery in primary open angle glaucoma. *Ophthalmology* 100: 1624 – 1628.
- Kruse D, Fornaris J, Silverman R, Coleman D and Ferrara K (1998):** A swept-scanning mode for estimation of blood velocities in the microvasculature. *IEEE Trans Ultrason Ferroelec Freq Control*; 45: 1437-1440.
- Labbe A, Dupas b, Hamard P and Baudouin C (2004):** An evaluation of blebs after filtering surgery with the in vivo confocal microscope, *J Fr Ophtalmol.* Dec; 27 (10): 1083-9.
- Lama P and Fechtner R (2003):** Antifibrotics and wound healing in glaucoma surgery. *Surv Ophthalmol.*;48:314–46.
- Lederer C (1996):** Combined cataract extraction with intraocular lens implant and mitomycin-augmented trabeculectomy. *Ophthalmology.* 1996; 103:1025–1034.
- Leibman J and Rich R (1996):** Complications of Glaucoma filtering surgery. In; *GLAUCOMAS*, (2nd ed): Ritch R, Shield MB and Krupin T (eds). U.S.A.: Mosby- year book, 1703-1736.
- Levine J, Moses H, Gold L and Nanney L (1993) :** Spatial and temporal patterns of immunoreactive transforming growth factor-beta-1,

-beta-2 and -beta-3 during excisional wound repair. Am. J. Pathol ; 143: 368-380.

Loftfield K and Ball S (1990): Filtering bleb encapsulation increased by steroid injection. Ophthalmic Surg. Apr; 21 (4): 282-7.

Loon S and Chew P(1999): A major review of antimetabolites in glaucoma therapy. Ophthalmologica; 213: 234–45.

Lusthaus A, Kubay O, Karim R, Franzco D and Franzco F (2010): Primary trabeculectomy with mitomycin C" safety and efficacy at years, clinical and experimental ophthalmology; 38: 831-838.

Lyshchik A, Fleischer A and Huamani J (2007): Molecular imaging of vascular endothelial growth factor receptor 2 expression using targeted contrast-enhanced high-frequency sonography. J Ultra Med; 26: 1575-1586.

Mandal A, Majji A, Mandal S, Das T, Jalali S, Gothwal V, Jain S and Nutheri R (2002): Mitomycin-C- augmented trabeculectomy for neovascular glaucoma a preliminary report. Indian j ophthalmol, 50 (4): 287-293.

Mandal A, Prasad K and Naduvilath T (1999): Surgical results and complication of Mitomycin-C augmented trabeculectomy in refractory developmental glaucoma. Ophthalmologic Surg Lasers; 30: 473-480.

Manzano R, Peyman G, Khan P and Kivilcim M (2006): Testing intravitreal toxicity of bevacizumab (Avastin) Retina; 26(3):257-261.

- Maruichi M, Takai S, Sugiyama T, Ueki M, Oku H, Sakaguchi M, Okamoto Y, Muramatsu M, Ikeda T and Miyzaki M (2004):** Role of chymase on growth of cultured canine Tenon's capsule fibroblasts and scarring in a canine conjunctival flap model. *Exp Eye Res.*;79:111–8.
- Mead A, Wong T and Cordeiro M (2003):** Evaluation of anti-TGF-beta2 antibody as a new postoperative anti-scarring agent in glaucoma surgery. *Invest Ophthalmol Vis Sci.*;44:3394–3401.
- Messmer E, Zapp D, Mackert M, Thiel M and Kampik A. (2006):** In vivo confocal microscopy of filtering blebs after trabeculectomy. *Arch Ophthalmol.*;124(8): 1095-1103.
- Mietz H, Arnold G, Kirchhof B, Diestelhorst M and Krieglstein GK. (1996):** Histopathology of episcleral fibrosis after trabeculectomy with and without mitomycin C. *Graefes Arch Clin Exp Ophthalmol.*;234(6):364-368.
- Mietz, H. and Krieglstein, G (2001):** Suramin to enhance glaucoma filtering procedures; a clinical comparison with Mitomycin. *Ophthalmologic Surg Lasers*; 32: 385-369.
- Mochizuki K, Jikihara S, Ando Y, Hori N, Yamamoto T and Kitazawa Y. (1997):** Incidence of delayed onset infection after trabeculectomy with adjunctive mitomycin C or 5-fluorouracil treatment. *Br J Ophthalmol.*;81:877–83.
- Morita K, Munnich S, Lieb W, Jahn and Grehn F (1995):** Ultrasound biomicroscopy findings in various forms of glaucoma. *Ophthalmologie* Aug; 92(4): 526-3.

- Nilforushan N, Yadgari M, Kish S and Nassiri N (2011):** Subconjunctival bevacizumab versus mitomycin C adjunctive to trabeculectomy, *am. J. Ophthalmol*; (20): 10.
- Nutys R, Felten, P, Pels E, Langerhorst C, Geijssen H, Grossniklaus H and Greve E (1994):** Histopathologic effect of mitomycin C trabeculectomy in human glaucomatous eyes with persistent hypotony. *Am J Ophthalmol*; 118: 225-237.
- Okada K, Sugiyama T, Takai S, Jin D, Ishida O, Fukmoto M, Oku H, Miyazaki M, and Ikeda T (2009):** Effects of mitomycin C on the expression of chymase and mast cells in the conjunctival scar of a monkey trabeculectomy model, *Mol Vis.*; 15: 2029–2036.
- Ophir A and Tico U (1992):** Delayed filtering bleb encapsulation. *Ophthalmologic Surg.*; 23:38.
- Palanca-Capistrano A, Hall J and Cantor L (2008):** Longterm outcomes of intraoperative 5-fluorouracil versus intraoperative mitomycin C in primary trabeculectomy surgery. *Ophthalmology*; 116(2): 185–90.
- Palmar S (1991):** Mitomycin as adjunct chemotherapy with trabeculectomy. *Ophthalmology*; 98: 317-321.
- Parrish R and Folberg R (1996):** Wound healing in glaucoma surgery. In the glaucoma, (2nd ed): Rich R, Shields MB, Knipin T (ed). U. S. A.: Mosby year book.; 1633-1651.
- Pavlin C (2006):** New Development; retrieved from <http://www.eyebm.com>.



- Pavlin C and Foster F (1995):** Ultrasound microscopy of the eye. Springer-Verlag, New York, 90: 216-225.
- Pavlin C and Foster F (1998):** Ultrasound biomicroscopy. High-frequency ultrasound imaging of the eye at microscopic resolution. *Rad Clin North Am*; 6: 1047–58.
- Pavlin C and Foster F (2002):** Ultrasound Biomicroscopy of the eye. In: Byrne S.F., Green R.L., editors. *Ultrasound of the eye and orbit*. St Louis (MO): Mosby: 223-235.
- Pavlin C and Foster S (1995):** Basic considerations (chapter 1). *Ultrasound biomicroscopy of the eye*. New York; Springer Verlag, first edition; 3-60.
- Pavlin C Sherar M and Foster F (1990):** Subsurface ultrasound microscopic imaging of the intact eye. *Ophthalmology*; 97: 244–50.
- Pavlin C, Easterbrook M, Hurwitz J, et al (1993):** Ultrasound biomicroscopy in the assessment of anterior scleral disease. *Am J Ophthalmol*; (2002) 116: 628-635.
- Pavlin C, Harasiewicz K and Foster F (1992):** Ultrasound biomicroscopy of anterior segment structures in normal and glaucomatous eyes. *Am J Ophthalmol*; 113: 381-389.
- Pavlin C, Harasiewicz K and Foster F (1994):** Posterior iris bowing in pigmentary dispersion syndrome caused by accommodation. *Am J Ophthalmol*; 118 : 114–6.

- Pavlin C, Harasiewicz K, Sherar M and Foster F (1991):** Clinical use of ultrasound biomicroscopy. *Ophthalmology*; 98: 287-295.
- Pavlin C, Ritch R and Foster F (1992):** Ultrasound biomicroscopy in plateau iris syndrome. *Am J Ophthalmology*; 113: 390-395.
- Pavlin C, Sherar M and Foster F (1990):** Subsurface ultrasound microscopic imaging of intact eye. *Ophthalmol*; 97: 244-250.
- Pavlin C, Simpson E and Foster F (2008):** Ultrasound Biomicroscopy, In: *Ultrasound Clinic*, 3. Arun D. Singh, Brandy C. Hayden, Charles J. Pavlin editors. Elsevier Inc.; 185–194.
- Pavlin C, Simpson E and Foster F (2008):** Ultrasound biomicroscopy. *Ultrasound Clin*; 3: 185-194.
- Picht G, Grehn F. (1997):** Classification of filtering blebs: a correlation to outcome 3 months after trabeculectomy [ARVO abstract]. *Invest Ophthalmol Vis Sci*; 38:1060.
- Reibaldi A, Uva M, Longo A (2008):** Nine-year follow-up of trabeculectomy with or without low-dosage mitomycin-c in primary open-angle glaucoma. *Br J Ophthalmol*; 92: 1666–70.
- Reinstein D, Silverman R, Trokel S, Alleman N and Coleman D (1993):** High frequency ultrasound digital signal processing for biometry of the cornea in planning phototherapeutic keratectomy. *Arch Ophthalmology* 111: 430-431.
- Rosenfeld P, Brown D, Heier J, Boyer D, Kaiser P, Chung C and Kim R (2006):** Ranibizumab for neovascular age-related macular degeneration. *N Engl J Med*. ;355 (14): 1419-1431.

- Rosenfeld P, Schwartz S, Blumenkranz M, Miller J, Haller J, Reimann J, Greene W and Shams N. (2005):** Maximum tolerated dose of a humanized anti-vascular endothelial growth factor antibody fragment for treating neovascular age-related macular degeneration. *Ophthalmology*; 112(6): 1048-1053.
- Shaarawy T, Flammer J and Drance S (2004):** Glaucoma therapy, Current Issue and controversies; 295-298.
- Shingleton B (1996):** Management of the failing glaucoma filter. *Ophthalmic Surg Lasers*.;27:445–451.
- Silverman R (2009):** High-resolution ultrasound imaging of the eye – a review. *Clin Experiment Ophthalmol*; 37: 54–67.
- Singh M, Chew P, Friedman D, Nolan W, See J and Smith S (2007):** Imaging of trabeculectomy blebs using anterior segment optical coherence tomography. *Ophthalmology*; 114: 47-53.
- Singh G, Kaur G and Dogra A (1993):** Intraoperative Mytomyacin C in complicated glaucomas, 41: (2): 87-80.
- Siriwardena D, Khaw P and King A (2000):** A randomized placebo controlled trial of human antitransforming growth factor beta(2) (TGFB2) monoclonal antibody (CAT-152): A new modulator of wound healing following trabeculectomy. *Invest. Ophthalmol Vis Sci*; 41: 3958.
- Skuta G and Parrish P (1987):** Wound healing in glaucoma filtering surgery. *Surg Ophthalmol*; 32: 149-170.



- Starban M and Austin G (1984):** The ultrasonic Macroscope. Ultrasonic Imaging; 6: 243-261.
- Sugiyama K (2011):** Vivo Confocal Microscopy and Ultrasound Biomicroscopy Study of Filtering Blebs after Trabeculectomy: Limbus-based Versus Fornix-based Conjunctival Flaps. Journal of Glaucoma, 27 (10): 1083-9.
- Tello C, Leibmann J and Potash S (1994):** measurement of ultrasound biomicroscopy images: intraobserver and interobserver reliability. Invest Ophthalmol Vis Sci; 35: 3549-3552.
- Thijssen M, Mol M and Timer M (1983):** Acoustic parameters of ocular tissues. Ultrasound Med Biol; 11: 157-161.
- Tsai J, Chang H, Kao C, Lai, I and Teng M (2003):** The safety and efficacy of single -dro p mitomyci C in pterigium surgery. Ophthalmologica Jan-Feb;217(1):24-30
- Van Bushirk E (1991):** basic trabeculectomy: Glaucoma surgical techniques. American Acedemy of Ophthalmology; Mills RP and Werineb RN (ed). Mexico.; 22-34.
- Van Buskirk E and Kronfeld P (1982):** Cysts of tenon's capsule after filtration surgery. Am J ophthalmol, 94: 522.
- Vesti E (1993):** Filtering blebs: follow-up of trabeculectomy. *Ophthalmic Surg Lasers*.;24:249–255.
- Wershil B and Galli S (1994):** The analysis of mast cell function in vivo using mast cell-deficient mice. Adv Exp Med Biol.;347:39–54.