

Papers Utilizing or Describing Multifocal ERG or VEP

Ordered Chronologically within Topics and Updated April 24, 2006.

Age-Related Macular Degeneration

Gerth C, Delahunt PB, Alam S, Morse LS, Werner JS. (2006) Cone-mediated multifocal electroretinogram in age-related macular degeneration: progression over a long-term follow-up. *Arch Ophthalmol.* Mar;124(3):345-52.

Feigl B, Brown B, Lovie-Kitchin J, Swann P. (2005) Adaptation responses in early age-related maculopathy. *Invest Ophthalmol Vis Sci.* Dec;46(12):4722-7.

Feigl B, Brown B, Lovie-Kitchin J, Lee L. (2005) Dynamics of retinal function after multiple photodynamic therapies in age-related macular degeneration: a report of cases. *Doc Ophthalmol.* Nov;111(3):135-48. Epub 2006 Mar 6.

Feigl B, Lovie-Kitchin J, Brown B. (2005) Objective functional assessment of age-related maculopathy: a special application for the multifocal electroretinogram. *Clin Exp Optom.* 2005 Sep;88(5):304-12. Review.

Catala-Mora J, Castany-Aregall M, Berniell-Trota JA, Arias-Barquet L, Roca-Linares G, Jurgens-Mestre I. (2005) [Multifocal electroretinogram and age-related macular degeneration] *Arch Soc Esp Oftalmol.* Jul;80(7):395-404. Spanish.

Feigl B, Brown B, Lovie-Kitchin J, Swann P. (2005) Cone- and rod-mediated multifocal electroretinogram in early age-related maculopathy. *Eye.* Apr;19(4):431-41.

Ladewig MS, Ladewig K, Guner M, Heidrich H. (2005) Prostaglandin E(1) infusion therapy in dry age-related macular degeneration. *Prostaglandins Leukot Essent Fatty Acids.* Apr;72(4):251-6.

Feigl B, Brown B, Lovie-Kitchin J, Swann P. (2004) Cone-mediated multifocal electroretinogram in early age-related maculopathy and its relationships with subjective macular function tests. *Curr Eye Res.* Oct-Nov;29(4-5):327-36.

Moschos MM, Panayotidis D, Theodossiadis G, Moschos M. (2004) Assessment of macular function by multifocal electroretinogram in age-related macular degeneration before and after photodynamic therapy. *J Fr Ophthalmol.* Nov;27(9 Pt 1):1001-6.

Feigl B, Brown B, Lovie-Kitchin J, Swann P. (2004) Monitoring retinal function in early age-related maculopathy: visual performance after 1 year. *Eye.* Sep 24 [Epub ahead of print].

Feigl B, Brown B, Lovie-Kitchin J, Swann P. (2004) Cone- and rod-mediated multifocal electroretinogram in early age-related maculopathy. *Eye.* Jul 30 [Epub ahead of print].

Chen C, Wu L, Wu D, Huang S, Wen F, Luo G, Long S. (2004) The local cone and rod system function in early age-related macular degeneration. *Doc Ophthalmol.* Jul;109(1):1-8.

Lai TY, Chan WM, Lam DS. Transient reduction in retinal function revealed by multifocal electroretinogram after photodynamic therapy. *Am J Ophthalmol.* 2004 May;137(5):826-33.

Gerth C, Hauser D, Delahunt PB, Morse LS, Werner JS. (2003) Assessment of multifocal electroretinogram abnormalities and their relation to morphologic characteristics in patients with large drusen. *Arch Ophthalmol.* Oct;121(10):1404-14.

Heinemann-Vernaleken B, Palmowski AM, Allgayer R, Ruprecht KW. (2001) Comparison of different high resolution multifocal electroretinogram recordings in patients with age-related maculopathy. *Graefe's Archive for Clinical and Experimental Ophthalmology* 2001 Aug;239(8):556-61.

Li, J., Tso, M.O., Lam, T.T. (2001). Reduced amplitude and delayed latency in foveal response of multifocal electroretinogram in early age related macular degeneration. *British Journal of Ophthalmology* 85: 287-290.

Palmowski, A.J., Allgayer, R., Heinemann-Vernaleken, B., Ruprecht, K.W. (2001). First and second order changes in the multifocal electroretinogram of patients with different forms of age related macular degeneration. *Vision Science and Its Applications, 2001 OSA Technical Digest, Washington, D.C.: Optical Society of America, pages 32-35.*

Huang, S., Wu, D., Jiang, F., et al. (2000). The multifocal electroretinogram in age-related maculopathies. *Documenta Ophthalmologica* 101: 115-124.

Palmowski, A.M., Sutter, E.E., Bearse, M.A., Fung, W. (1999). Multifocal electroretinogram (MF-ERG) in diagnosis of macular changes. Example: age-related macular degeneration. *Ophthalmologie* 96: 166-173.

Aging

- Tam WK, Chan H, Brown B, Leung KW, Woo V, Yap M. (2004) Aging and mfERG topography. *Eye*. Dec 24; [Epub ahead of print]
- Tzekov RT, Gerth C, Werner JS (2004) Senescence of human multifocal electroretinogram components: a localized approach. *Graefes Arch Clin Exp Ophthalmol*. Jul;242(7):549-60. Epub Apr 15.
- Gerth C, Sutter EE, Werner JS. (2003) mfERG response dynamics of the aging retina. *Invest Ophthalmol Vis Sci*. 2003 Oct;44(10):4443-50.
- Seiple W, Vajaranant TS, Szlyk JP, Clemens C, Holopigian K, Paliga J, Badawi D, Carr RE. (2003) Multifocal electroretinography as a function of age: the importance of normative values for older adults. *Invest Ophthalmol Vis Sci*. Apr;44(4):1783-92.
- Fortune B, Johnson CA. (2002) Decline of photopic multifocal electroretinogram responses with age is due primarily to preretinal optical factors. *J Opt Soc Am A Opt Image Sci Vis*. 2002 Jan;19(1):173-84.
- Jackson GR, Ortega J, Girkin C, Rosenstiel CE, Owsley C. (2002) Aging-related changes in the multifocal electroretinogram. *J Opt Soc Am A Opt Image Sci Vis*. Jan;19(1):185-9.
- Nabeshima T. (2001) The Effects of Aging on the Multifocal Electroretinogram. *Japanese Journal of Ophthalmology* 2001 Jan;45(1):114-115
- Mohidin, N., Yap, M.K.H., Jacobs, R.J. (1999). Influence of age on multifocal electroretinography. *Ophthalmic and Physiological Optics* 19: 481-488.

Chorioretinopathy

- Lai TY, Chan WM, Li H, Lai RY, Liu DT, Lam DS. (2006) Safety enhanced photodynamic therapy with half dose verteporfin for chronic central serous chorioretinopathy: a short term pilot study. *Br J Ophthalmol*. Apr 5; [Epub ahead of print]
- Zhang W, Zhao K.(2003) Multifocal electroretinography in central serous chorio-retinopathy and assessment of the reproducibility of the multifocal electroretinography. *Doc Ophthalmol*. Mar;106(2):209-13.
- Palmowski AM, Haus AH, Pfohler C, Reinhold U, Allgayer R, Tilgen W, Ruprecht KW, Thirkill CE. (2002) Bilateral multifocal chorioretinopathy in a woman with cutaneous malignant melanoma. *Arch Ophthalmol*. Dec;120(12):1756-61.
- Vajaranant TS, Szlyk JP, Fishman GA, Gieser JP, Seiple W. (2002) Localized retinal dysfunction in central serous chorioretinopathy as measured using the multifocal electroretinogram. *Ophthalmology*. Jul;109(7):1243-50.
- Suzuki K, Hasegawa S, Usui T, Ichibe M, Takada R, Takagi M, Abe H. (2002) Multifocal electroretinogram in patients with central serous chorioretinopathy. *Jpn J Ophthalmol*. May-Jun;46(3):308-14.
- Huang S, Wu D, Jiang F, Wu L, Liang J, Luo G, Wen F, Ma J. (2002) The multifocal electroretinogram in central serous chorioretinopathy. *Ophthalmic Physiol Opt*. May;22(3):244-7.
- Dohrmann J, Lommatzsch A, Spital G, Pauleikhoff D. (2001) [Pathogenesis of central serous chorioretinopathy: angiographic and electrophysiological studies] *Ophthalmologie*. Nov;98(11):1069-73. German.
- Chappelow, A.V., Marmor, M.F. (2000). Multifocal electroretinogram abnormalities persist following resolution of central serous chorioretinopathy. *Archives of Ophthalmology* 118: 1211-1215.
- Suzuki, K., Hasegawa, S., Usui, T., et al. (2000). Multifocal electroretinogram in central serous chorioretinopathy. *Nippon Ganka Gakkai Zasshi* 104: 248-254.
- Marmor, M.F., Tan, F. (1999). Central serous chorioretinopathy: bilateral multifocal electroretinographic abnormalities. *Archives of Ophthalmology* 117: 184-188.

Comparisons of Multifocal with other Techniques

- Rangaswamy NV, Hood DC, Frishman LJ. (2003) Regional variations in local contributions to the primate photopic flash ERG: revealed using the slow-sequence mfERG. *Invest Ophthalmol Vis Sci*. Jul;44(7):3233-47.
- Fortune B, Hood DC. (2003) Conventional pattern-reversal VEPs are not equivalent to summed multifocal VEPs. *Invest Ophthalmol Vis Sci*. Mar;44(3):1364-75.

Rohrschneider K, Bultmann S, Kiel R, Weimer P, Krastel H, Blankenagel A. (2002) [Diagnosis of retinal diseases. Comparison between multifocal ERG and fundusperimetry - a case study] *Ophthalmologe*. Sep;99(9):695-702. German.

Seiple W, Greenstein VC, Holopigian K, Carr RE, Hood DC. (2002) A method for comparing psychophysical and multifocal electroretinographic increment thresholds. *Vision Res*. Jan;42(2):257-69.

Hood, D.C., Zhang, X. (2000). Multifocal ERG and VEP responses and visual fields: comparing disease-related changes. *Documenta Ophthalmologica* 100: 115-137.

Kretschmann, U., Gendo, K., Wilhelm, H., et al. (1998). Objective assessment of visual field defects using multifocal electroretinography. *Klinische Monatsblätter für Augenheilkunde* 212: 40-49.

Yoshii, M., Yanashima, K., Matsuno, K., et al. (1998). Relationship between visual field defect and multifocal electroretinogram. *Japanese Journal of Ophthalmology* 42: 136-141.

Hood, D.C., Seiple, W., Holopigian, K., Greenstein, V. (1997). A comparison of the components of the multi-focal and full-field ERGs. *Visual Neuroscience* 14: 533-544.

Vaegan, Sutter, E.E. (1990). Fundamental differences between the nonlinearities of pattern and focal electroretinograms. *Documenta Ophthalmologica* 76: 13-25.

Choroideremia

Cheung MC, Nune GC, Wang M, McTaggart KE, MacDonald IM, Duncan JL (2004) Detection of localized retinal dysfunction in a choroideremia carrier. *Am J Ophthalmol*. Jan;137(1):189-91.

Rudolph G, Preising M, Kalpadakis P, Haritoglou C, Lang GE, Lorenz B. (2003) Phenotypic variability in three carriers from a family with choroideremia and a frameshift mutation 1388delCCinsG in the REP-1 gene. *Ophthalmic Genet*. Dec;24(4):203-14. Erratum in: *Ophthalmic Genet*. 2004 Mar;25(1):65.

Rudolph G, Preising M, Kalpadakis P, Haritoglou C, Lang G, Lorenz B. (2003) Phenotypic variability in three carriers from a family with choroideremia and a frameshift mutation 1388delCCinsG in the REP-1 gene. *Ophthalmic Genet*. Dec;24(4):203-14.

Diabetes

Tyrberg M, Ponjavic V, Lovestam-Adrian M. (2005) Multifocal Electroretinography (mfERG) in Insulin Dependent Diabetics with and without Clinically Apparent Retinopathy. *Doc Ophthalmol*. Mar;110(2-3):137-43.

Klemp K, Sander B, Brockhoff PB, Vaag A, Lund-Andersen H, Larsen M. (2005) The multifocal ERG in diabetic patients without retinopathy during euglycemic clamping. *Invest Ophthalmol Vis Sci*. Jul;46(7):2620-6.

Johnson MA, Lutty GA, McLeod DS, Otsuji T, Flower RW, Sandagar G, Alexander T, Steidl SM, Hansen BC. (2005) Ocular structure and function in an aged monkey with spontaneous diabetes mellitus. *Exp Eye Res*. Jan;80(1):37-42.

Han Y, Adams AJ, Bearse MA Jr, Schneck ME. (2004) Multifocal electroretinogram and short-wavelength automated perimetry measures in diabetic eyes with little or no retinopathy. *Arch Ophthalmol*. Dec;122(12):1809-15.

Han Y, Schneck ME, Bearse MA Jr, Barez S, Jacobsen CH, Jewell NP, Adams AJ. (2004) Formulation and evaluation of a predictive model to identify the sites of future diabetic retinopathy. *Invest Ophthalmol Vis Sci*. Nov;45(11):4106-12.

Klemp K, Larsen M, Sander B, Vaag A, Brockhoff PB, Lund-Andersen H. (2004) Effect of Short-Term Hyperglycemia on Multifocal Electroretinogram in Diabetic Patients without Retinopathy. *Invest Ophthalmol Vis Sci*. Oct;45(10):3812-9.

Bellmann C, Neveu MM, Scholl HP, Hogg CR, Rath PP, Jenkins S, Bird AC, Holder GE (2004) Localized retinal electrophysiological and fundus autofluorescence imaging abnormalities in maternal inherited diabetes and deafness. *Invest Ophthalmol Vis Sci*. Jul;45(7):2355-60.

Schneck ME, Bearse MA Jr, Han Y, Barez S, Jacobsen C, Adams AJ. (2004) Comparison of mfERG waveform components and implicit time measurement techniques for detecting functional change in early diabetic eye disease. *Doc Ophthalmol*. May;108(3):223-30.

Han Y, Bearse MA Jr, Schneck ME, Barez S, Jacobsen C, Adams AJ. (2004) Towards optimal filtering of "standard" multifocal electroretinogram (mfERG) recordings: findings in normal and diabetic subjects. *Br J Ophthalmol*. Apr;88(4):543-50.

- Han Y, Bearnse MA Jr, Schneck ME, Barez S, Jacobsen CH, Adams AJ. (2004) Multifocal electroretinogram delays predict sites of subsequent diabetic retinopathy. *Invest Ophthalmol Vis Sci.* Mar;45(3):948-54.
- Bearnse MA Jr, Han Y, Schneck ME, Adams AJ (2004) Retinal function in normal and diabetic eyes mapped with the slow flash multifocal electroretinogram. *Invest Ophthalmol Vis Sci.* Jan;45(1):296-304.
- Mita-Harris M. (2001) [Changes in the second-order kernel component obtained by the techniques of the multifocal electroretinogram in early stages of diabetes mellitus] *Nippon Ganka Gakkai Zasshi.* Jul;105(7):470-7. Japanese.
- Shimada, Y., Li, Y., Bearnse, M.A., Sutter, E.E., Fung, W. (2001). Assessment of early retinal changes in diabetes using a new multifocal ERG protocol. *British Journal of Ophthalmology* 85: 414-419.
- Yamamoto S, Yamamoto T, Hayashi M, Takeuchi S. (2001) Morphological and functional analyses of diabetic macular edema by optical coherence tomography and multifocal electroretinograms. *Graefes Archive for Clinical and Experimental Ophthalmology* Feb;239(2):96-101.
- Greenstein, V.C., Chen, H., Hood, D.C., et al. (2000). Retinal function in diabetic macular edema after focal laser photocoagulation. *Investigative Ophthalmology and Visual Science* 41: 3655-3664.
- Greenstein, V.C., Holopigian, K., Hood, D.C., Seiple, W., Carr, R.E. (2000). The nature and extent of retinal dysfunction associated with diabetic macular edema. *Investigative Ophthalmology and Visual Science* 41: 3643-3654.
- Kurtenbach, A., Langrova, H., Zrenner, E. (2000). Multifocal oscillatory potentials in type 1 diabetes without retinopathy. *Investigative Ophthalmology and Visual Science* 41: 3234-3241.
- Fortune, B., Schneck, M.E., Adams, A.J. (1999). Multifocal electroretinogram delays reveal local retinal dysfunction in early diabetic retinopathy. *Investigative Ophthalmology and Visual Science* 40: 2638-2651.
- Palmowski, A.M., Sutter, E.E., Bearnse, M.A., Fung, W. (1997). Mapping of retinal function in diabetic retinopathy using the multifocal electroretinogram. *Investigative Ophthalmology and Visual Science* 38: 2586-2596.
- Palmowski, A.M., Bearnse, M.A., Sutter, E.E. (1996). Multi-focal electroretinography in diabetic retinopathy. *Vision Science and Its Applications, 1996 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America, pp. 43-45.*

Drugs: Effects and Toxicity

- Lai TY, Chan WM, Li H, Lai RY, Lam DS. (2005) Multifocal electroretinographic changes in patients receiving hydroxychloroquine therapy. *Am J Ophthalmol.* Nov;140(5):794-807.
- Chisholm JA, Williams G, Spence E, Parks S, Keating D, Gavin M, Mills PR. (2005) Retinal toxicity during pegylated alpha-interferon therapy for chronic hepatitis C: a multifocal electroretinogram investigation. *Aliment Pharmacol Ther.* Mar 15;21(6):723-32.
- Luu CD, Lau AM, Koh AH, Tan D. (2005) Multifocal electroretinogram in children on atropine treatment for myopia. *Br J Ophthalmol.* Feb;89(2):151-3.
- Tzekov R. (2005) Ocular toxicity due to chloroquine and hydroxychloroquine: electrophysiological and visual function correlates. *Doc Ophthalmol.* Jan;110(1):111-20. Review.
- Maturi RK, Yu M, Weleber RG (2004) Multifocal electroretinographic evaluation of long-term hydroxychloroquine users. *Arch Ophthalmol.* Jul;122(7):973-81.
- Tzekov RT, Serrato A, Marmor MF. (2004) ERG findings in patients using hydroxychloroquine. *Doc Ophthalmol.* Jan;108(1):87-97.
- Moschos MN, Moschos MM, Apostolopoulos M, Mallias JA, Bouros C, Theodossiadis GP. (2004) Assessing hydroxychloroquine toxicity by the multifocal ERG. *Doc Ophthalmol.* Jan;108(1):47-53.
- Ponjavic V, Granse L, Stigmar EB, Andreasson S. (2004) Reduced full-field electroretinogram (ERG) in a patient treated with methotrexate. *Acta Ophthalmol Scand.* Feb;82(1):96-9.
- McDonagh J, Stephen LJ, Dolan FM, Parks S, Dutton GN, Kelly K, Keating D, Sills GJ, Brodie MJ. (2003) Peripheral retinal dysfunction in patients taking vigabatrin. *Neurology.* Dec 23;61(12):1690-4.
- Penrose PJ, Tzekov RT, Sutter EE, Fu AD, Allen AW Jr, Fung WE, Oxford KW. (2003) Multifocal electroretinography evaluation for early detection of retinal dysfunction in patients taking hydroxychloroquine. *Retina.* Aug;23(4):503-12.
- Luu C, Kiely P, Crewther D, Kowal L, Crewther S. (2003) Central and peripheral vision loss associated with nefazodone usage. *Doc Ophthalmol.* May;106(3):319-25.

- Ponjavic V, Granse L, Bengtsson Stigmar E, Andreasson S. (2002) Retinal dysfunction and anterior segment deposits in a patient treated with rifabutin. *Acta Ophthalmol Scand.* Oct;80(5):553-6.
- Besch D, Kurtenbach A, Apfelstedt-Sylla E, Sadowski B, Dennig D, Asenbauer C, Zrenner E, Schiefer U. (2002) Visual field constriction and electrophysiological changes associated with vigabatrin. *Doc Ophthalmol.* Mar;104(2):151-70.
- Luu JK, Chappelov AV, McCulley TJ, Marmor MF. (2001) Acute effects of sildenafil on the electroretinogram and multifocal electroretinogram. *American Journal of Ophthalmology* Sep;132(3):388-94.
- Sadowski B, Kriegbaum C, Apfelstedt-Sylla E. (2001) Tamoxifen side effects, age-related macular degeneration (AMD) or cancer associated retinopathy (CAR)? *European Journal of Ophthalmology* Jul-Sep;11(3):309-12.
- McDonagh J, Grierson DJ, Keating D, Parks S. (2001) The wide field multifocal ERG reveals a retinal defect caused by vigabatrin toxicity. *Br J Ophthalmol.* Jan;85(1):119-20.
- Ponjavic V, Andreasson S. (2001) Multifocal ERG and full-field ERG in patients on long-term vigabatrin medication. *Doc Ophthalmol.* Jan;102(1):63-72.
- Harding, G.F., Wild, J.M., Robertson, K.A., et al. (2000). Electro-oculography, electroretinography, visual evoked potentials, and multifocal electroretinography in patients with vigabatrin-attributed visual field constriction. *Epilepsia* 41: 1420-1431.
- Johnson, M.A., Krauss, G.L., Miller, N.R., Medura, M., Paul, S.R. (2000). Visual function loss from vigabatrin: effect of stopping the drug. *Neurology* 55: 40-45.
- Kellner, U., Kraus, H., Foerster, M.H. (2000). Multifocal ERG in chloroquine retinopathy: regional variance of retinal dysfunction. *Graefes Archives of Clinical and Experimental Ophthalmology* 238: 94-97.
- Lawden, M.C., Eke, T., Degg, C., Harding, G.F., Wild, J.M. (1999). Visual field defects associated with vigabatrin therapy. *Journal of Neurology and Neurosurgical Psychiatry* 67: 716-722.
- Maturi, R.K., Folk, J.C., Nichols, B., Oetting, T.T., Kardon, R.H. (1999). Hydroxychloroquine retinopathy. *Archives of Ophthalmology* 117: 1262-1263.
- Ruether, K., Pung, T., Kellner, U., et al. (1998). Electrophysiological evaluation of a patient with peripheral visual field contraction associated with Vigabatrin. *Archives of Ophthalmology* 116: 817-819.
- Schmidt, D., Bach, M., Gerling, J. (1997). A case of localized retinal damage in thallium poisoning. *International Ophthalmology*, 21: 143-147.

Glaucoma

- Chu PH, Chan HH, Brown B. (2006) Glaucoma detection is facilitated by luminance modulation of the global flash multifocal electroretinogram. *Invest Ophthalmol Vis Sci.* Mar;47(3):929-37.
- Rangaswamy NV, Zhou W, Harwerth RS, Frishman LJ. (2006) Effect of experimental glaucoma in primates on oscillatory potentials of the slow-sequence mfERG. *Invest Ophthalmol Vis Sci.* Feb;47(2):753-67.
- Chan HH. (2005) Detection of glaucomatous damage using multifocal ERG. *Clin Exp Optom.* Nov;88(6):410-4.
- Nitta J, Tazawa Y, Murai K, Egawa I, Nabeshima T, Endo T, Tanaka M, Machida S. (2005) Relationship between the s-wave amplitude of the multifocal electroretinogram and the retinal nerve fiber layer thickness in glaucomatous eyes. *Jpn J Ophthalmol.* Nov-Dec;49(6):481-90.
- Graham SL, Klistorner AI, Goldberg I. (2005) Clinical application of objective perimetry using multifocal visual evoked potentials in glaucoma practice. *Arch Ophthalmol.* Jun;123(6):729-39.
- Chan HH, Leung MC, So KF. (2005) Electroacupuncture provides a new approach to neuroprotection in rats with induced glaucoma. *J Altern Complement Med.* Apr;11(2):315-22.
- Bjerre A, Grigg JR, Parry NR, Henson DB. (2004) Test-retest variability of multifocal visual evoked potential and SITA standard perimetry in glaucoma. *Invest Ophthalmol Vis Sci.* Nov;45(11):4035-40.
- Greenstein VC, Thienprasiddhi P, Ritch R, Liebmann JM, Hood DC. (2004) A method for comparing electrophysiological, psychophysical, and structural measures of glaucomatous damage. *Arch Ophthalmol.* Sep;122(9):1276-84.
- Murai K, Tazawa Y, Kobayashi M, Hayasaka A. (2004) Amplitude of the s-wave of multifocal electroretinograms can indicate local retinal sensitivity in glaucomatous eyes. *Jpn J Ophthalmol.* May-Jun;48(3):215-21.

- Kobayashi M, Tazawa Y, Haga-Sano M, Nabeshima T, Murai K (2004) Changes in the s-wave of multifocal electroretinograms in eyes with primary open-angle glaucoma. *Jpn J Ophthalmol.* May-Jun;48(3):208-14.
- Hood DC, Thienprasiddhi P, Greenstein VC, Winn BJ, Ohri N, Liebmann JM, Ritch R. (2004) Detecting early to mild glaucomatous damage: a comparison of the multifocal VEP and automated perimetry. *Invest Ophthalmol Vis Sci.* Feb;45(2):492-8.
- Palmowski AM, Ruprecht KW (2004) Follow up in open angle glaucoma. A comparison of static perimetry and the fast stimulation mfERG. *Multifocal ERG follow up in open angle glaucoma. Doc Ophthalmol.* Jan;108(1):55-60.
- Thienprasiddhi P, Greenstein VC, Chen CS, Liebmann JM, Ritch R, Hood DC. (2003) Multifocal visual evoked potential responses in glaucoma patients with unilateral hemifield defects. *Am J Ophthalmol.* Jul;136(1):34-40.
- Chen CS, Hood DC, Zhang X, Karam EZ, Liebmann JM, Ritch R, Thienprasiddhi P, Greenstein VC. (2003) Repeat reliability of the multifocal visual evoked potential in normal and glaucomatous eyes. *J Glaucoma.* 2003 Oct;12(5):399-408.
- Raz D, Perlman I, Percicot CL, Lambrou GN, Ofri R. (2003) Functional damage to inner and outer retinal cells in experimental glaucoma. *Invest Ophthalmol Vis Sci.* Aug;44(8):3675-84.
- Hood DC, Zhang X, Winn BJ.(2003) Detecting glaucomatous damage with multifocal visual evoked potentials: how can a monocular test work? *J Glaucoma.* Feb;12(1):3-15.
- Hood DC, Greenstein VC. (2003) Multifocal VEP and ganglion cell damage: applications and limitations for the study of glaucoma. *Prog Retin Eye Res.* Mar;22(2):201-51.
- Hood DC. (2003) Objective measurement of visual function in glaucoma. *Curr Opin Ophthalmol.* Apr;14(2):78-82.
- Bengtsson B. (2002) Evaluation of VEP perimetry in normal subjects and glaucoma patients. *Acta Ophthalmol Scand.* Dec;80(6):620-6.
- Fortune B, Cull G, Wang L, Van Buskirk EM, Cioffi GA. (2002) Factors affecting the use of multifocal electroretinography to monitor function in a primate model of glaucoma. *Doc Ophthalmol.* Sep;105(2):151-78.
- Raz D, Seeliger MW, Geva AB, Percicot CL, Lambrou GN, Ofri R. (2002) The effect of contrast and luminance on mfERG responses in a monkey model of glaucoma. *Invest Ophthalmol Vis Sci.* Jun;43(6):2027-35.
- Sakemi F, Yoshii M, Okisaka S. (2002) Multifocal electroretinograms in early primary open-angle glaucoma. *Jpn J Ophthalmol.* Jul-Aug;46(4):443-50.
- Fortune B, Bearnse MA Jr, Cioffi GA, Johnson CA. (2002) Selective loss of an oscillatory component from temporal retinal multifocal ERG responses in glaucoma. *Invest Ophthalmol Vis Sci.* Aug;43(8):2638-47.
- Hasegawa S, Abe H. (2001) Mapping of glaucomatous visual field defects by multifocal VEPs. *Invest Ophthalmol Vis Sci.* Dec;42(13):3341-8.
- Fortune B, Johnson CA, Cioffi GA. (2001) The topographic relationship between multifocal electroretinographic and behavioral perimetric measures of function in glaucoma. *Optometry and Vision Science* Apr;78(4):206-14.
- Bach M. (2001) Electrophysiological approaches for early detection of glaucoma. *European Journal of Ophthalmology,* Jul-Sep;11 Suppl 2:S41-9.
- Bearnse, M.A., Sutter, E.E., Stamper, R.L. (2001). Detection of glaucomatous dysfunction using a global flash multifocal electroretinogram (mERG) paradigm. *Vision Science and Its Applications, OSA Technical Digest, Washington, D.C.:* Optical Society of America, pages 14-17.
- Sutter, E.E., Bearnse, M.A., Stamper, R.L., et al. (2001). Monitoring retinal ganglion cell function with the mERG: recent advances. *Vision Science and Its Applications, OSA Technical Digest, Washington, D.C.:* Optical Society of America, pages 10-13.
- Hare, W.A., Ton, H., Ruiz, G., et al. (2001). Characterization of retinal injury using ERG measures obtained with both conventional and multifocal methods in chronic ocular hypertensive primates. *Investigative Ophthalmology and Visual Science* 42: 127-136.
- Klistorner, A.I., Graham, S.L., Martins, A. (2000). Multifocal pattern electroretinogram does not demonstrate localised field defects in glaucoma. *Documenta Ophthalmologica* 100: 155-165.
- Frishman, L.J., Saszik, S., Harwerth, R.S., et al. (2000). Effects of experimental glaucoma in macaques on the multifocal ERG. *Multifocal ERG in laser-induced glaucoma. Documenta Ophthalmologica* 100: 231-251.

- Frishman, L.J., Saszik, S., Harwerth, R.S., et al. (2000). Effects of experimental glaucoma in macaques on the multifocal ERG. *Multifocal ERG in laser-induced glaucoma. Documenta Ophthalmologica* 100: 231-251.
- Palmowski, A.M., Allgayer, R., Heinemann-Vemaleken, B. (2000). The multifocal ERG in open angle glaucoma--a comparison of high and low contrast recordings in high- and low-tension open angle glaucoma. *Documenta Ophthalmologica* 101: 35-49.
- Klistorner A, Graham SL. (2000). Objective perimetry in glaucoma. *Ophthalmology* 107: 2283-2299.
- Hasegawa, S., Takagi, M., Usui, T., Takada, R., Abe, H. (2000). Waveform changes of the first-order multifocal electroretinogram in patients with glaucoma. *Investigative Ophthalmology and Visual Science* 41: 1597-1603.
- Graham, S.L., Klistorner, A.I., Grigg, J.R., Billson, F.A. (2000). Objective VEP perimetry in glaucoma: asymmetry analysis to identify early deficits. *Journal of Glaucoma* 9: 10-19.
- Hood, D.C., Zhang, X., Greenstein, V.C., et al. (2000). An interocular comparison of the multifocal VEP: a possible technique for detecting local damage to the optic nerve. *Investigative Ophthalmology and Visual Science* 41: 1580-1587.
- Hood, D.C., Greenstein, V.C., Holopigian, K., et al. (2000). An attempt to detect glaucomatous damage to the inner retina with the multifocal ERG. *Investigative Ophthalmology and Visual Science* 41: 1570-1579.
- Chan, H.H., Brown, B. (2000). Pilot study of the multifocal electroretinogram in ocular hypertension. *British Journal of Ophthalmology* 84: 1147-1153.
- Hare, W., Ton, H., Woldemussie, E., et al. (1999). Electrophysiological and histological measures of retinal injury in chronic ocular hypertensive monkeys. *European Journal of Ophthalmology* 9 (Suppl 1): 30-33.
- Klistorner, A.I., Graham, S.L. (1999). Early magnocellular loss in glaucoma demonstrated using the pseudorandomly stimulated flash visual evoked potential. *Journal of Glaucoma* 8: 140-148.
- Graham, S.L., Klistorner, A., Grigg, J.R., Billson, F.A. (1999). Objective perimetry in glaucoma: recent advances with multifocal stimuli. *Survey of Ophthalmology* 43 Suppl 1: S199-209.
- Chan, H.L., Brown, B. (1999). Multifocal ERG changes in glaucoma. *Ophthalmic and Physiological Optics* 19: 306-316.
- Klistorner, A.I., Graham, S.L. (1999). Multifocal pattern VEP perimetry: analysis of sectoral waveforms. *Documenta Ophthalmologica* 98: 183-196.
- Klistorner, A.I., Graham, S.L., Grigg, J.R., Billson, F.A. (1998). Multifocal topographic visual evoked potential: Improving objective detection of local visual field defects. *Investigative Ophthalmology and Visual Science* 39: 937-950.
- Bearse, M.A., Sutter, E.E., Palmowski, A.M. (1997). New developments toward a clinical test of retinal ganglion cell function. *Vision Science and Its Applications, 1997 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America*, pp. 280-283.
- Vaegan, Buckland, L. (1996). The spatial distribution of ERG losses across the posterior pole of glaucomatous eyes in multifocal recordings. *Australian and New Zealand Journal of Ophthalmology* 24 (Suppl 2): S28-S31.
- Bearse, M.A., Sutter, E.E., Sim, D., Stamper, R. (1996). Glaucomatous dysfunction revealed in higher order components of the electroretinogram. *Vision Science and Its Applications, 1996 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America*, pp. 104-107.

Inner Retinal Contributions to the Multifocal ERG

- Lalonde MR, Chauhan BC, Tremblay F. (2006) Retinal ganglion cell activity from the multifocal electroretinogram in pig: optic nerve section, anaesthesia and intravitreal tetrodotoxin. *J Physiol.* Jan 15;570(Pt 2):325-38. Epub 2005 Nov 10.
- Fortune B, Wang L, Bui BV, Burgoyne CF, Cioffi GA. (2005) Idiopathic bilateral optic atrophy in the rhesus macaque. *Invest Ophthalmol Vis Sci.* Nov;46(11):3943-56.
- Shimada Y, Bearse MA Jr, Sutter EE. (2005) Multifocal electroretinograms combined with periodic flashes: direct responses and induced components. *Graefes Arch Clin Exp Ophthalmol.* 2005 Feb;243(2):132-41. Epub 2004 Dec 17.
- Kurtenbach A, Leo-Kottler B, Zrenner E. (2004) Inner retinal contributions to the multifocal electroretinogram: patients with

Leber's hereditary optic neuropathy (LHON). Multifocal ERG in patients with LHON. *Doc Ophthalmol.* May;108(3):231-40.

Fortune B, Wang L, Bui BV, Cull G, Dong J, Cioffi GA. (2003) Local ganglion cell contributions to the macaque electroretinogram revealed by experimental nerve fiber layer bundle defect. *Invest Ophthalmol Vis Sci.* Oct;44(10):4567-79.

Hare WA, Ton H. (2002) Effects of APB, PDA, and TTX on ERG responses recorded using both multifocal and conventional methods in monkey. Effects of APB, PDA, and TTX on monkey ERG responses. *Doc Ophthalmol.* 2002 Sep;105(2):189-222.

Sano M, Tazawa Y, Nabeshima T, Mita M. (2002) A new wavelet in the multifocal electroretinogram, probably originating from ganglion cells. *Invest Ophthalmol Vis Sci.* May;43(5):1666-72.

Hood DC, Bearse MA Jr, Sutter EE, Viswanathan S, Frishman LJ (2001) The optic nerve head component of the monkey's (*Macaca mulatta*) multifocal electroretinogram (mERG). *Vision Research* 2001 Jul;41(16):2029-41.

Bearse, M.A., Shimada, Y., Sutter, E.E. (2000). Distribution of oscillatory components in the central retina. *Documenta Ophthalmologica* 100: 185-205.

Vaegan, Anderton, P.J., Millar, T.J. (2000). Multifocal, pattern and full field electroretinograms in cats with unilateral optic nerve section. *Documenta Ophthalmologica* 100: 207-229.

Sutter, E.E., Bearse, M.A. (1999). The optic nerve head component of the human ERG. *Vision Research* 39: 419-436.

Hood, D.C., Frishman, L.J., Robson, J.G., et al. (1999). A frequency analysis of the regional variation in the contribution from action potentials to the primate multifocal ERG. *Vision Science and Its Applications*, 1999 OSA Technical Digest Series, Washington, D.C.: Optical Society of America, pages 56-59.

Sutter, E.E., Shimada, Y., Li, Y., Bearse, M.A. (1999). Mapping inner retinal function through enhancement of adaptive components in the M-ERG. *Vision Science and Its Applications*, 1999 OSA Technical Digest Series, Washington, D.C.: Optical Society of America, pages 52-55.

Hood, D.C., Frishman, L.J., Viswanathan, S., Robson, J.G., Ahmed, J. (1999). Evidence for a ganglion cell contribution to the primate electroretinogram (ERG): effects of TTX on the multifocal ERG in macaque. *Visual Neuroscience* 16: 411-416.

Hood, D.C., Greenstein, V., Frishman, L., et al. (1999). Identifying inner retinal contributions to the human multifocal ERG. *Vision Research* 39: 2285-2291.

Vaegan, Sanderson, G. (1997). Absence of ganglion cell subcomponents in multifocal luminance electroretinograms. *Australian and New Zealand Journal of Ophthalmology* 25 (Suppl 1): S87-S90.

Sutter, E.E., Bearse, M.A. (1995). Extraction of a ganglion cell component from the corneal response. *Vision Science and Its Applications*, 1995 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America, pp. 310-313.

Introduction to Multifocal Techniques

Seiple W, Holopigian K, Clemens C, Greenstein VC, Hood DC. (2005) The multifocal visual evoked potential: an objective measure of visual fields? *Vision Res.* 2005 Apr;45(9):1155-63. Epub 2004 Dec 19.

Crewther DP, Luu CD, Kiely PM, Kowal L, Crewther SG (2004) Clinical application of the multifocal visual evoked potential. *Clin Exp Optom.* May;87(3):163-70.

Hood DC. (2004) Electrophysiologic imaging of retinal and optic nerve damage: the multifocal technique. *Ophthalmol Clin North Am.* Mar;17(1):69-88. Review.

Hedges TR 3rd, Quireza ML. (2004) Multifocal visual evoked potential, multifocal electroretinography, and optical coherence tomography in the diagnosis of subclinical loss of vision. *Ophthalmol Clin North Am.* Mar;17(1):89-105. Review.

Hood DC, Odel JG, Winn BJ. (2003) The multifocal visual evoked potential. *J Neuroophthalmol.* Dec;23(4):279-89. Review.

Palmowski AM. (2003) Multifocal stimulation techniques in ophthalmology -- Current knowledge and perspectives. *Strabismus.* Dec;11(4):229-37. Review.

Hood DC, Odel JG, Winn BJ (2003) The multifocal visual evoked potential. *J Neuroophthalmol.* Dec;23(4):279-89. Review.

- Zhang X. (2003) Simultaneously recording local luminance responses, spatial and temporal interactions in the visual system with m-sequences. *Vision Res.* Jul;43(15):1689-98.
- Hood DC, Odel JG, Chen CS, Winn BJ. (2003) The multifocal electroretinogram. *J Neuroophthalmol.* Sep;23(3):225-35.
- Marmor MF, Hood DC, Keating D, Kondo M, Seeliger MW, Miyake Y. (2003) Guidelines for basic multifocal electroretinography (mfERG). *Doc Ophthalmol.* Mar;106(2):105-15.
- Jiang F, Huang S, Luo G, Wu D, Liang J, Liu C. (2001) [The measurement of multifocal electroretinography] *Yan Ke Xue Bao.* Dec;17(4):217-9. Chinese.
- Hebert M. (2001) Multifocal electroretinography: introduction to the technique and its clinical application. *Can J Ophthalmol.* Aug;36(5):293-7. Review.
- Sutter, E.E. (2001). Imaging visual function with the multifocal m-sequence technique. *Vision Research* 41: 1241-1255.
- Sutter, E.E. (2000). The interpretation of multifocal binary kernels. *Documenta Ophthalmologica* 100: 49-75.
- Hood, D.C. (2000). Assessing retinal function with the multifocal ERG technique. *Progress in Retinal and Eye Research* 19(5):607-646.
- Kretschmann, U., Bock, M., Gockeln, R., Zrenner, E. (2000). Clinical applications of multifocal electroretinography. *Documenta Ophthalmologica* 100: 99-113.
- Mack, G., Dollfus H., Flament J., Mohand-Said S., Sahel J. (1999). A new mode of recording retinal activity: multifocal ERG. *Journal of French Ophthalmology* 22: 221-225.
- Barber, C. (1998). The multifocal ERG and VEP. In E. Stalberg, A. de Weerd, J. Zidar (Eds.) *Proceedings of the Ninth European Congress of Clinical Neurophysiology*, Bologna: Monduzzi Editore, pp. 209-216.
- Oguchi, Y. (1998). Visual information processing and the mechanism of vision. Clinical application. *Nippon Ganka Gakkai Zasshi* 102: 850-875.
- Kretschmann, U., Gendo, K., Seeliger, M., Zrenner, E. (1997). Multifocal ERG recording by the VERIS technique and its clinical applications. *Developments in Ophthalmology Basel* 29: 8-14.
- Kondo, M., Miyake, Y., Horiguchi, M., Suzuki, S., Tanikawa, A. (1995). Clinical evaluation of multifocal electroretinogram. *Investigative Ophthalmology and Visual Science* 36: 2146-2150.
- Baseler, H.A., Sutter, E.E., Klein, S.A., Carney, T. (1994). The topography of visual evoked response properties across the visual field. *Electroencephalography and Clinical Neurophysiology* 90: 65-81.
- Sutter, E.E., Tran, D. (1992). The field topography of ERG components in man - I. The photopic luminance response. *Vision Research* 32: 433-446.

Lateral Interactions

- Seeliger MW, Jurklics B, Kellner U, Palmowski A, Bach M, Kretschmann U. (2001) [Multifocal electroretinography (mfERG)] *Ophthalmologie*. Nov;98(11):1112-27; quiz 1128-9. Review. German.
- Seiple W, Vajaranant T S, Pepperberg D R, Szlyk J P. (2001) Lateral spread of adaptation as measured with the multifocal electroretinogram. *Vis Neurosci.* Sep-Oct;18(5):687-94.
- Kretschmann, U., Tornow, R.P., Zrenner, E. (1998). Multifocal ERG reveals long distance effects of a local bleach in the retina. *Vision Research* 38: 1567-1571.
- Sutter, E.E., Bearse, M.A. (1998). The retinal topography of local and lateral gain control mechanisms. *Vision Science and Its Applications*, 1998 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America, pp. 20-23.
- Sutter, E.E., Vaegan (1990). Lateral interaction component and local luminance nonlinearities in the human pattern reversal ERG. *Vision Research* 30: 659-671.

Miscellaneous Multifocal ERG

- Luu CD, Lau AM, Lee SY.(2006) Multifocal electroretinogram in adults and children with myopia. *Arch Ophthalmol.* Mar;124(3):328-34.

- Renner AB, Kellner U, Tillack H, Kraus H, Foerster MH. (2005) Recording of Both VEP and Multifocal ERG for Evaluation of Unexplained Visual Loss Electrophysiology in Unexplained Visual Loss. *Doc Ophthalmol.* Nov;111(3):149-57. Epub 2006 Mar 6.
- Palmowski-Wolfe AM, Vilser W, Laack U, Muller D, Ruprecht KW. (2005) Retinal perfusion response to a slow multifocal M-sequence flicker stimulation. *Ophthalmic Res.* Sep-Oct;37(5):250-4. Epub 2005 Jul 14.
- Chee SP, Luu CD, Cheng CL, Lim WK, Jap A.(2005) Visual function in Vogt-Koyanagi-Harada patients. *Graefes Arch Clin Exp Ophthalmol.* Aug;243(8):785-90. Epub 2005 Mar 11.
- Chen JC, Brown B, Schmid KL. (2005) Delayed mfERG responses in myopia. *Vision Res.* Aug 8; [Epub ahead of print]
- Kurtenbach A, Heine J, Jagle H. (2004) Multifocal electroretinogram in trichromat and dichromat observers under cone isolating conditions. *Vis Neurosci.* May-Jun;21(3):249-55.
- Seeliger MW, Weber BH, Besch D, Zrenner E, Schrewe H, Mayser H. (2003) MfERG waveform characteristics in the RS1h mouse model featuring a 'negative' ERG. *Doc Ophthalmol.* Jul;107(1):37-44.
- Hood DC, Frishman LJ, Saszik S, Viswanathan S. (2002) Retinal origins of the primate multifocal ERG: implications for the human response. *Invest Ophthalmol Vis Sci.* 2002 May;43(5):1673-85.
- Eksandh L, Kohl S, Wissinger B. (2002) Clinical features of achromatopsia in Swedish patients with defined genotypes. *Ophthalmic Genet.* Jun;23(2):109-20.
- Kondo, M., Miyake, Y. (2000). Assessment of local cone on- and off-pathway function using multifocal ERG technique. *Documenta Ophthalmologica* 100: 139-154.
- Ball, S.L., Petry, H.M. (2000). Noninvasive assessment of retinal function in rats using multifocal electroretinography. *Investigative Ophthalmology and Visual Science* 41: 610-617.
- Wilhelm, H., Neitzel, J., Wilhelm, B., et al. (2000). Pupil perimetry using m-sequence stimulation technique. *Investigative Ophthalmology and Visual Science* 41: 1229-1238.
- Kondo, M., Miyake, Y., Piao, C., et al. (1999). Amplitude increase of the multifocal electroretinogram during light adaptation. *Investigative Ophthalmology and Visual Science* 40: 2633-2637.
- Nusinowitz, S., Ridder, W.H. 3rd, Heckenlively, J.R. (1999). Rod multifocal electroretinograms in mice. *Investigative Ophthalmology and Visual Science* 40: 2848-2858.
- Beresford, J.A., Crewther, S.G., Crewther, D.P. (1999). A technique for in vivo measurement of photoreceptor orientation in the chicken retina. *Australian and New Zealand Journal of Ophthalmology* 27: 241-243.
- Seeliger, M.W., Kretschmann, U.H., Apfelstedt-Sylla, E., Zrenner, E. (1998). Implicit time topography of multifocal electroretinograms. *Investigative Ophthalmology and Visual Science* 39: 718-723.
- Klistorner, A., Crewther, D.P., Crewther, S.G. (1998). Temporal analysis of the topographic ERG: Chromatic versus achromatic stimulation. *Vision Research* 38: 1047-1062.
- Hood, D.C., Wladis, E.J., Shady, S., et al. (1998). Multifocal rod electroretinograms. *Investigative Ophthalmology and Visual Science* 39: 1152-1162.
- Horiguchi, M., Suzuki, S., Kondo, M., Tanikawa, A., Miyake, Y. (1998). Effect of glutamate analogues and inhibitory neurotransmitters on the electroretinograms elicited by random sequence stimuli in rabbits. *Investigative Ophthalmology and Visual Science* 39: 2171-2176.
- Kondo, M., Miyake, Y., Horiguchi, M., Suzuki, S., Tanikawa, A. (1998). Recording multifocal electroretinogram on and off responses in humans. *Investigative Ophthalmology and Visual Science* 39: 574-580.
- Kawabata, H., Adachi-Usami, E. (1997). Multifocal electroretinogram in myopia. *Investigative Ophthalmology and Visual Science* 38: 2844-2851.
- Sutter, E.E. (1997). Rapid derivation of the Stiles-Crawford function using electrophysiological responses. *Vision Science and Its Applications, 1997 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America,* pp. 258-261.
- Wu, S., Sutter, E.E. (1995). A topographic study of oscillatory potentials in man. *Visual Neuroscience* 12: 1013-1025.

Miscellaneous Retinal Damage

- Hvarfner C, Andreasson S, Larsson J. (2006) Multifocal electroretinography and fluorescein angiography in retinal vein occlusion. *Retina*. Mar;26(3):292-6.
- Tzekov R, Lin T, Zhang KM, Jackson B, Oyejide A, Orilla W, Kulkarni AD, Kuppermann BD, Wheeler L, Burke J. (2006) Ocular changes after photodynamic therapy. *Invest Ophthalmol Vis Sci*. Jan;47(1):377-85.
- Eksandh L, Andreasson S, Abrahamson M. (2005) Juvenile X-linked retinoschisis with normal scotopic b-wave in the electroretinogram at an early stage of the disease. *Ophthalmic Genet*. Sep;26(3):111-7.
- Schatz P, Ponjavic V, Andreasson S, McGee TL, Dryja TP, Abrahamson M. (2005) Clinical phenotype in a Swedish family with a mutation in the IMPDH1 gene. *Ophthalmic Genet*. Sep;26(3):119-24.
- Aggio FB, Farah ME, Meirelles RL, de Souza EC. (2005) STRATUSOCT and multifocal ERG in unilateral acute idiopathic maculopathy. *Graefes Arch Clin Exp Ophthalmol*. Sep 9; [Epub ahead of print]
- Behbehani RS, Affel EL, Sergott RC, Savino PJ. (2005) Multifocal ERG in ethambutol associated visual loss. *Br J Ophthalmol*. 2005 Aug;89(8):976-82.
- Leifert D, Todorova MG, Prunte C, Palmowski-Wolfe AM. (2005) LED-generated Multifocal ERG On- and Off-responses in Complete Congenital Stationary Night Blindness - A Case Report. *Doc Ophthalmol*. Jul;111(1):1-6. Epub 2006 Feb 25.
- Fulton AB, Hansen RM, Moskowitz A, Barnaby AM. (2005) Multifocal ERG in Subjects with a History of Retinopathy of Prematurity. *Doc Ophthalmol*. Jul;111(1):7-13. Epub 2006 Feb 25.
- Maier R, Heilig P, Winker R, Neudorfer B, Hoeranter R, Ruediger H. (2005) Welder's maculopathy? *Int Arch Occup Environ Health*. Jul 15;:1-5 [Epub ahead of print]
- Gjorloff KW, Andreasson S, Ghosh F. (2005) mfERG in normal and lesioned rabbit retina. *Graefes Arch Clin Exp Ophthalmol*. Jun 28;1-7 [Epub ahead of print]
- Ahn JK, Seo JM, Chung H, Yu HG. (2005) Anatomical and functional characteristics in atrophic maculopathy associated with spinocerebellar ataxia type 7. *Am J Ophthalmol*. May;139(5):923-5.
- Weleber RG, Watzke RC, Shults WT, Trzupke KM, Heckenlively JR, Egan RA, Adamus G. (2005) Clinical and electrophysiologic characterization of paraneoplastic and autoimmune retinopathies associated with antiendolase antibodies. *Am J Ophthalmol*. May;139(5):780-94.
- Leizaola-Fernandez C, Suarez-Tata L, Quiroz-Mercado H, Colina-Luquez J, Fromow-Guerra J, Jimenez-Sierra JM, Guerrero-Naranjo JL, Morales-Canton V. (2005) Vitrectomy with complete posterior hyaloid removal for ischemic central retinal vein occlusion: series of cases. *BMC Ophthalmol*. May 20;5(1):10.
- Martinez-Jardon CS, Meza-de Regil A, Dalma-Weiszhausz J, Leizaola-Fernandez C, Morales-Canton V, Guerrero-Naranjo JL, Quiroz-Mercado H. (2005) Radial optic neurotomy for ischaemic central vein occlusion. *Br J Ophthalmol*. May;89(5):558-61.
- Szlyk JP, Vajaranant TS, Rana R, Lai WW, Pulido JS, Paliga J, Blair NP, Seiple W. (2005) Assessing Responses of the Macula in Patients with Macular Holes using a New System Measuring Localized Visual Acuity and the mfERG. *Doc Ophthalmol*. Mar;110(2-3):181-91.
- Li D, Horiguchi M, Kishi S. (2004) Tomographic and multifocal electroretinographic features of idiopathic epimacular membranes. *Arch Ophthalmol*. Oct;122(10):1462-7.
- Schatz P, Eriksson U, Ponjavic V, Andreasson S. (2004) Multifocal electroretinography and optical coherence tomography in two patients with solar retinopathy. *Acta Ophthalmol Scand*. Aug;82(4):476-80.
- Wu D, Jiang F, Liang J, Ma J, Luo G, Wen F, Wu L. (2003) [Multifocal electroretinogram in cystoid macular edema] *Yan Ke Xue Bao*. Dec;19(4):253-6. Chinese.
- Granse L, Bergstrand I, Thiselton D, Ponjavic V, Heijl A, Votruba M, Andreasson S. (2003) Electrophysiology and ocular blood flow in a family with dominant optic nerve atrophy and a mutation in the OPA1 gene. *Ophthalmic Genet*. Dec;24(4):233-45.
- Onozu H, Yamamoto S. (2003) Oscillatory potentials of multifocal electroretinogram retinopathy. *Doc Ophthalmol*. May;106(3):327-32.
- Nakazawa T, Yamaguchi K, Shimura M, Yoshida M, Yoshioka Y, Tamai M. (2003) Clinical features of bilateral acute idiopathic maculopathy. *Jpn J Ophthalmol*. Jul-Aug;47(4):385-91.
- Rudolph G, Kalpadakis P, Bechmann M, Haritoglou C, Kampik A. (2003) Scanning laser ophthalmoscope-evoked multifocal ERG (SLO-mfERG) in patients with macular holes and normal individuals. *Eye*. Oct;17(7):801-8.

- Dolan FM, Parks S, Keating D, Dutton GN, Evans AL. (2003) Multifocal electroretinographic features of central retinal vein occlusion. *Invest Ophthalmol Vis Sci.* Nov;44(11):4954-9.
- Rudolph G, Kalpadakis P. (2003) Topographic mapping of retinal function with the SLO-mfERG under simultaneous control of fixation in Best's disease. *Ophthalmologica.* Mar-Apr;217(2):154-9.
- Staudt S, Jousseaume AM, Rating D, Wilichowski E, Kolling G, Holz FG. (2003) [Pigmented retinopathy as a presenting sign of mitochondrial encephalomyopathy without external ophthalmoplegia] *Ophthalmologie.* Mar;100(3):234-7. German.
- Jurklics B, Weismann M, Husing J, Sutter EE, Bornfeld N. (2002) Monitoring retinal function in neovascular maculopathy using multifocal electroretinography - early and long-term correlation with clinical findings. *Graefes Arch Clin Exp Ophthalmol.* 2002 Apr;240(4):244-64.
- Wildberger H, Junghardt A. (2002) Local visual field defects correlate with the multifocal electroretinogram (mfERG) in retinal vascular branch occlusion. *Klin Monatsbl Augenheilkd.* Apr;219(4):254-8.
- Watzke RC, Shults WT. (2002) Clinical features and natural history of the acute idiopathic enlarged blind spot syndrome. *Ophthalmology.* Jul;109(7):1326-35.
- Haq F, Vajaranant TS, Szlyk JP, Pulido JS. (2002) Sequential multifocal electroretinogram findings in a case of Purtscher-like retinopathy. *Am J Ophthalmol.* Jul;134(1):125-8.
- Mack G, Uzel JL, Sahel J, Flament J. (2002) [Multifocal electroretinogram for assessing sun damage following the solar eclipse of 11 August 1999] *J Fr Ophtalmol.* Apr;25(4):380-7. French.
- Niemeyer G, Schaefer A. (2002) [Normal fundus and abnormal electroretinogram: differential diagnosis] *Klin Monatsbl Augenheilkd.* Apr;219(4):259-63. German.
- Hasegawa, S., Ohshima, A., Hayakawa, Y., Takagi, M., Abe, H. (2001). Multifocal electroretinograms in patients with branch retinal artery occlusion. *Investigative Ophthalmology and Visual Science* 42: 298-304.
- Oh KT, Folk JC, Maturi RK, Moore P, Kardon RH. (2001) Multifocal electroretinography in multifocal choroiditis and the multiple evanescent white dot syndrome. *Retina.* 21(6):581-9.
- Muscat S, Fahad B, Parks S, Keating D. (2001) Optical coherence tomography and multifocal electroretinography of X-linked juvenile retinoschisis. *Eye.* Dec;15(Pt 6):796-9.
- Seeliger MW, Zrenner E, Apfelstedt-Sylla E, Jaissle GB. (2001) Identification of Usher syndrome subtypes by ERG implicit time. *Invest Ophthalmol Vis Sci.* Nov;42(12):3066-71.
- Kondo N, Kondo M, Miyake Y. (2001) Acute idiopathic blind spot enlargement syndrome: prolonged retinal dysfunction revealed by multifocal electroretinogram technique. *American Journal of Ophthalmology* Jul;132(1):126-8
- Kondo M, Miyake Y, Kondo N, Tanikawa A, Suzuki S, Horiguchi M, Terasaki H. (2001) Multifocal ERG findings in complete type congenital stationary night blindness. *Investigative Ophthalmology and Visual Science* May;42(6):1342-8
- Yamada K, Ohde H, Shinoda K, Kimura I, Mashima Y. (2001) [Objective evaluation of visual field loss in a patient with branch retinal artery occlusion and brain infarction] *Nippon Ganka Gakkai Zasshi.* Apr;105(4):257-64. Japanese.
- Palmowski AM, Allgayer R, Heinemann-Vernaleken B, Moustafa B, Sarafiant IA, Ruprecht KW. (2001) [Multifocal ERG in glimmer vision] *Ophthalmologie.* 2001 Feb;98(2):214-5. German.
- Jurklics B, Weismann M, Bornfeld N. (2001) [Multifocal electroretinography in diagnosis of macular diseases] *Ophthalmologie.* 2001 Jan;98(1):19-25. Review. German.
- Kwok, A.H., Li, J.Z., Lai, T.Y., et al. (2001). Multifocal electroretinographic and angiographic changes in pre-eclampsia. [Letter] *British Journal of Ophthalmology* 85: 111-112.
- Nomura, R., Kondo, M., Tanikawa, A., et al. (2001). Unilateral cone dysfunction with bull's eye maculopathy. *Ophthalmology* 108: 49-53.
- Feigl B, Haas A. (2000) Optical coherence tomography (OCT) in acute macular neuroretinopathy. *Acta Ophthalmol Scand.* Dec;78(6):714-6.
- Abe, T., Tsuda, T., Yoshida, M., et al. (2000). Macular degeneration associated with aberrant expansion of trinucleotide repeat of the SCA7 gene in 2 Japanese families. *Archives of Ophthalmology* 118: 1415-1421.
- Palmowski, A.M., Sutter, E.E., Bearnse, M.A., Fung, W. (1999). The multifocal electroretinogram in the diagnosis and follow-up of focal retinal dysfunction: case report of a patient with CSR. *Ophthalmologica* 213: 327-335.

- Marmor, M.F., Tan, F., Sutter, E.E., Bearn, M.A. (1999). Topography of cone electrophysiology in the enhanced S cone syndrome. *Investigative Ophthalmology and Visual Science* 40: 1866-1873.
- Arai, M., Nao-i, N., Sawada, A., Hayashida, T. (1998). Multifocal electroretinogram indicates visual field loss in acute zonal occult outer retinopathy. *American Journal of Ophthalmology* 126: 466-469.
- Kretschmann, U., Schlote, T., Stubiger, N., et al. (1998). Multifocal electroretinography in acquired macular dysfunction. *Klinische Monatsblätter für Augenheilkunde* 212: 93-100.
- Matsuno, K., Yoshii, M., Okisaka, S., et al. (1998). Detection of parafoveal scotoma by multifocal electroretinograms. *Nippon Ganka Gakkai Zasshi* 102: 545-550.
- Kretschmann, U., Seeliger, M., Ruether, K., Usui, T., Zrenner, E. (1998). Spatial cone activity distribution in diseases of the posterior pole determined by multifocal electroretinography. *Vision Research* 38: 3817-3828.
- Yoshii, M., Murakami, A., Akeo, K., et al. (1998). Visual function and gene analysis in a family with Oguchi's disease. *Ophthalmic Research* 30: 394-401.
- Kretschmann, U., Usui, T., Ruether, K., Zrenner, E. (1997). Electroretinographic campimetry in a patient with crystalline retinopathy. *German Journal of Ophthalmology* 5: 399-403.
- Denk, P.O., Kretschmann, U., Gonzalez, J., Gelissen, F., Knorr, M. (1997). Phototoxic maculopathy after arc welding: value of multifocal ERG. *Klinische Monatsblätter für Augenheilkunde* 211: 207-210.
- Sasoh, M., Yoshida, S., Kuze, M., Uji, Y. (1997). The multifocal electroretinogram in retinal detachment. *Documenta Ophthalmologica* 94: 239-250.
- Huang, H.J., Yamazaki, H., Kawabata, H., Ninomiya, T., Adachi-Usami, E. (1997). Multifocal electroretinogram in multiple evanescent white dot syndrome. *Documenta Ophthalmologica* 92: 301-309.
- Bearn, M.A., Sutter, E.E. (1996). Imaging localized retinal dysfunction with the multifocal electroretinogram. *Journal of the Optical Society of America A* 13: 634-640.
- Kretschmann, U., Ruther, K., Usui, T., Zrenner, E. (1996). ERG campimetry using a multi-input stimulation technique for mapping of retinal function in the central visual field. *Ophthalmic Research* 28: 303-311.
- Bearn, M.A., Sutter, E.E., Smith, D.N., Rose, S.J. (1995). Early detection of macular dysfunction in the topography of the electroretinogram. *Vision Science and Its Applications, 1995 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America, pp. 318-321.*
- Bearn, M.A., Sutter, E.E., Lerner, L. (1994). Imaging retinal damage with the multi-input electroretinogram. *Vision Science and its Applications, 1994 OSA Technical Digest Series, Vol. 2, Washington, D.C.: Optical Society of America, pp. 358-361.*

Multifocal VEP, Animal

- Kasamatsu, T., Kitano, M., Sutter, E.E., Norcia, A.M. (1997). Lack of lateral inhibitory interactions in visual cortex of monocularly deprived cats. *Vision Research* 38: 1-12.
- Kitano, M., Kasamatsu, T., Norcia, A.M., Sutter, E.E. (1995). Spatially distributed responses induced by contrast reversal in cat visual cortex. *Experimental Brain Research* 104: 297-309.
- Kitano, M., Niiyama, K., Kasamatsu, T., Sutter, E.E., Norcia, A.M. (1994). Retinotopic and non-retinotopic field potentials in cat visual cortex. *Visual Neuroscience* 11: 953-977.

Multifocal VEP, Miscellaneous

- Danesh-Meyer HV, Carroll SC, Gaskin BJ, Gao A, Gamble GD. (2006) Correlation of the multifocal visual evoked potential and standard automated perimetry in compressive optic neuropathies. *Invest Ophthalmol Vis Sci.* Apr;47(4):1458-63.
- Klistorner A, Graham SL. (2005) Intertest Variability of mfVEP Amplitude: Reducing its Effect on the Interpretation of Sequential Tests. *Doc Ophthalmol.* Nov;111(3):159-67. Epub 2006 Mar 6.
- Hatase T, Hasegawa S, Tanimoto N, Miki A, Ueki S, Usui T, Takaki M, Abe H. (2005) [Multifocal visually evoked responses in two children with optic neuritis] *Nippon Ganka Gakkai Zasshi.* Aug;109(8):497-503. Japanese.
- Klistorner AI, Graham SL, Grigg J, Balachandran C. (2005) Objective perimetry using the multifocal visual evoked potential in central visual pathway lesions. *Br J Ophthalmol.* Jun;89(6):739-44.

- Yukawa E, Kim YJ, Kawasaki K, Taketani F, Hara Y. (2005) A child with epilepsy in whom multifocal VEPs facilitated the objective measurement of the visual field. *Epilepsia*. Apr;46(4):577-9.
- Hoffmann MB, Seufert PS. (2005) Simulated nystagmus reduces pattern-reversal more strongly than pattern-onset multifocal visual evoked potentials. *Clin Neurophysiol*. Jul;116(7):1723-32.
- Chan HH, Ng FY, Chu PH. (2005) Clinical application of mfERG/VEP in assessing superior altitudinal hemifield loss. *Clin Exp Optom*. Jul;88(4):253-7.
- Seiple W, Holopigian K, Clemens C, Greenstein VC, Hood DC. (2005) The multifocal visual evoked potential: an objective measure of visual fields? *Vision Res*. 2005 Apr;45(9):1155-63. Epub 2004 Dec 19.
- Zhang W, Zhao K. (2005) Multifocal VEP Difference between Early- and Late-onset Strabismus Amblyopia. *Doc Ophthalmol*. Mar;110(2-3):173-80.
- Klistorner AI, Graham SL. (2005) Effect of Eccentricity on Pattern-pulse Multifocal VEP. *Doc Ophthalmol*. Mar;110(2-3):209-18.
- Hood DC, Ohri N, Yang EB, Rodarte C, Zhang X, Fortune B, Johnson CA. (2004) Determining abnormal latencies of multifocal visual evoked potentials: a monocular analysis. *Doc Ophthalmol*. Sep;109(2):189-99.
- Hood DC, Zhang X, Rodarte C, Yang EB, Ohri N, Fortune B, Johnson CA. (2004) Determining abnormal interocular latencies of multifocal visual evoked potentials. *Doc Ophthalmol*. Sep;109(2):177-87.
- Hood DC, Greenstein VC, Odel JG, Zhang X, Ritch R, Liebmann JM, Hong JE, Chen CS, Thienprasiddhi P. (2002) Visual field defects and multifocal visual evoked potentials: evidence of a linear relationship. *Arch Ophthalmol*. Dec;120(12):1672-81.
- Liu RJ, Zhu GY, Fan LH. (2002) [Visual electrophysiology and objective visual function] *Fa Yi Xue Za Zhi*. May;18(2):115-7. Chinese.
- Hood DC, Yu AL, Zhang X, Albrecht J, Jagle H, Sharpe LT. (2002) The multifocal visual evoked potential and cone-isolating stimuli: implications for L- to M-cone ratios and normalization. *J Vis*. 2002;2(2):178-89.
- Slotnick SD, Hopfinger JB, Klein SA, Sutter EE. (2002) Darkness beyond the light: attentional inhibition surrounding the classic spotlight. *Neuroreport*. May 7;13(6):773-8.
- Seiple W, Clemens C, Greenstein VC, Holopigian K, Zhang X. (2002) The spatial distribution of selective attention assessed using the multifocal visual evoked potential. *Vision Res*. Jun;42(12):1513-21.
- Zhang X, Hood DC, Chen CS, Hong JE. (2002) A signal-to-noise analysis of multifocal VEP responses: an objective definition for poor records. *Doc Ophthalmol*. May;104(3):287-302.
- Hood DC, Zhang X, Hong JE, Chen CS. (2002) Quantifying the benefits of additional channels of multifocal VEP recording. *Doc Ophthalmol*. May;104(3):303-20.
- Betsuin Y, Mashima Y, Ohde H, Inoue R, Oguchi Y. (2001) Clinical application of the multifocal VEPs. *Current Eye Research* Jan;22(1):54-63.
- Hood DC, Odel JG, Zhang X. (2000) Tracking the recovery of local optic nerve function after optic neuritis: a multifocal VEP study. *Investigative Ophthalmology & Visual Science* Nov;41(12):4032-8
- Barber, C., Walkey, H., Niskopolou, M. (1998). Visual insights from visual evoked potentials. *Medical Science Monitor* 4 (Suppl 1): 23-28.
- Yu, M., Brown, B., Edwards, M.H. (1998). Investigation of multifocal visual evoked potential in anisometric and esotropic amblyopes. *Investigative Ophthalmology and Visual Science* 39: 2033-2040.
- Reynolds, C.H., Crewther, D.P., Crewther, S.G., West, S.J. (1998). Effects of peripheral flicker masking on M- and P-pathway response. *Australian and New Zealand Journal of Ophthalmology* 26 (Suppl 1): 117-119.
- Yu, M.Z., Brown, B. (1997). Variation of topographic visually evoked potentials across the visual field. *Ophthalmic and Physiological Optics* 17: 25-31.
- Klistorner, A., Crewther, D.P., Crewther, S.G. (1997). Separate magnocellular and parvocellular contributions from temporal analysis of the multifocal VEP. *Vision Research* 37: 2161-2169.
- Baseler, H.A., Sutter, E.E. (1997). M and P components of the VEP and their visual field distribution. *Vision Research* 37: 675-690.
- Yu, M.Z., Brown, B., Edwards, M. (1997). Variation of the multifocal visual evoked potential with eccentricity in isometric amblyopes. *Eye Science* 13: 148-155.

Multiple Evanescent White Dot Syndrome

Chen D, Martidis A, Baurnal CR. (2002) Transient multifocal electroretinogram dysfunction in multiple evanescent white dot syndrome. *Ophthalmic Surg Lasers*. May-Jun;33(3):246-9.

Feigl B, Haas A, El-Shabrawi Y. (2002) Multifocal ERG in multiple evanescent white dot syndrome. *Graefes Arch Clin Exp Ophthalmol*. Aug;240(8):615-21.

Bultmann S, Martin M, Rohrschneider K. (2002) [Follow-up on MEWDS by fundus perimetry and multifocal ERG with the SLO] *Ophthalmologie*. Sep;99(9):719-23. German.

New Methods and Techniques

Bengtsson M, Andreasson S, Andersson G. (2005) Multifocal visual evoked potentials—a method study of responses from small sectors of the visual field. *Clin Neurophysiol*. Aug;116(8):1975-83.

Ruseckaite R, Maddess T, Danta G, Lueck CJ, James AC. (2005) Sparse multifocal stimuli for the detection of multiple sclerosis. *Ann Neurol*. Jun;57(6):904-13.

Chan HL, Chu HW, Ng YF, Tam WK, Young SM, Lam CH, Cheung AL. (2005) The detection of small relative simulated field defects using multifocal VEPs. *Ophthalmic Physiol Opt*. May;25(3):224-32.

James AC, Ruseckaite R, Maddess T. (2005) Effect of temporal sparseness and dichoptic presentation on multifocal visual evoked potentials. *Vis Neurosci*. Jan-Feb;22(1):45-54.

Zhang X, Hood DC. (2004) Increasing the sensitivity of the multifocal visual evoked potential (mfVEP) technique: incorporating information from higher order kernels using a principal component analysis method. *Doc Ophthalmol*. May;108(3):211-22.

Zhang X, Hood DC. (2004) A principal component analysis of multifocal pattern reversal VEP. *J Vis*. Feb 4;4(1):32-43.

James AC. (2003) The pattern-pulse multifocal visual evoked potential. *Invest Ophthalmol Vis Sci*. Feb;44(2):879-90.

Gerth C, Delahunt PB, Crognale MA, Werner JS. (2003) Topography of the chromatic pattern-onset VEP. *J Vis*. 3(2):171-82.

Hoffmann MB, Straube S, Bach B. (2003) Pattern-onset stimulation boosts central multifocal VEP responses. *J Vis*. 2003;3(6):432-9.

Poloschek CM, Rupp V, Krastel H, Holz FG. (2003) Multifocal ERG recording with simultaneous fundus monitoring using a confocal scanning laser ophthalmoscope. *Eye*. Mar;17(2):159-66.

Smith DC, Keating D, Parks S, Evans AL. (2002) An instrument to investigate temporal processing mechanisms with the multifocal ERG. *J Med Eng Technol*. Jul-Aug;26(4):147-51.

Bultmann S, Rohrschneider K. Reproducibility of multifocal ERG using the scanning laser ophthalmoscope. (2002) *Graefes Arch Clin Exp Ophthalmol*. Oct;240(10):841-5.

Keating D, Parks S, Smith D, Evans A. (2002) The multifocal ERG: unmasked by selective cross-correlation. *Vision Res*. Dec;42(27):2959-68.

Rudolph G, Kalpadakis P, Bechmann M, La Rocca G, Hormann C, Berninger T. (2002) Scanning laser ophthalmoscope-evoked multifocal-ERG (SLO-m-ERG) by using short m-sequences. *Eur J Ophthalmol*. 2002 Mar-Apr;12(2):109-16.

Albrecht J, Jagle H, Hood DC, Sharpe LT. (2002) The multifocal electroretinogram (mfERG) and cone isolating stimuli: Variation in L- and M-cone driven signals across the retina. *J Vis*. 2(8):543-58.

Klistorner AI, Graham SL. (2001) Electroencephalogram-based scaling of multifocal visual evoked potentials: effect on intersubject amplitude variability. *Invest Ophthalmol Vis Sci*. Aug;42(9):2145-52.

Rudolph G, Bechmann M, Berninger T, Kutschbach E, Held U, Tornow RP, Kalpadakis P, Zol'nikova IV, Shamshinova AM. (2001) [Topographic mapping of retinal function with a scanning laser ophthalmoscope and multifocal electroretinography using short M-sequences] *Vestn Oftalmol*. Mar-Apr;117(2):32-5. Russian.

Keating D, Parks S, Malloch C, Evans A. (2001) A comparison of CRT and digital stimulus delivery methods in the multifocal ERG. *Doc Ophthalmol*. Mar;102(2):95-114.

Seeliger, M.W., Narfstrom, K., Reinhard, J., Zrenner, E., Sutter, E. (2000). Continuous monitoring of the stimulated area in multifocal ERG. *Documenta Ophthalmologica* 100: 167-184.

Bock, M., Andrassi, M., Belitsky, L., Lorenz, B. (1999). A comparison of two multifocal ERG systems. *Documenta Ophthalmologica* 97: 157-178.

Hood, D.C., Li, J. (1997). A technique for measuring individual multifocal ERG records. In D. Yager, ed. *Non-invasive Assessment of the Visual System, Trends in Optics and Photonics, Vol. 11*, Washington, D.C.: Optical Society of America, pp. 33-41.

Kondo, M., Miyake, Y., Horiguchi, M., Suzuki, S., Tanikawa, A. (1997). Recording multifocal electroretinograms with fundus monitoring. *Investigative Ophthalmology and Visual Science* 38: 1049-1052.

Sutter, E.E. (1992). A deterministic approach to nonlinear systems analysis. In *Nonlinear Vision*, Pinter, R.B., Nabet, B., eds., Cleveland, Ohio: CRC Press, pp. 171-220.

Sutter, E.E. (1991). The fast m-transform: Fast computation of cross-correlations with binary m-sequences. *S.I.A.M. Journal of Computing* 20: 686-694.

Normals

Li JJ, Xu L, Bai FG, Zhang RX, Wu XS, Sun XY. (2005) [Single channel multifocal VEP studies in normal Chinese] *Zhonghua Yan Ke Za Zhi*. Apr;41(4):355-63. Chinese.

Fortune B, Zhang X, Hood DC, Demirel S, Johnson CA. (2004) Normative ranges and specificity of the multifocal VEP. *Doc Ophthalmol*. Jul;109(1):87-100.

Yoshii M, Yanashima K, Wada H, Sakemi F, Enoki T, Okisaka S. (2001) Analysis of second-order kernel response components of multifocal electroretinograms elicited from normal subjects. *Jpn J Ophthalmol*. May-Jun;45(3):247-51.

Wu D, Liang J, Ma J, et Al. (2001) [The characteristics of multifocal electroretinogram in normal subjects in China] *Chung Hua Yen Ko Tsa Chih*. Mar;37(2):98-103. Chinese.

Verdon, W.A., Haegerstrom-Portnoy, G. (1999). Topography of the multifocal electroretinogram. *Documenta Ophthalmologica* 95: 73-90.

Nagatomo, A., Nao-i, N., Maruiwa, F., Arai, M., Sawada, A. (1998). Multifocal electroretinograms in normal subjects. *Japanese Journal of Ophthalmology* 42: 129-135. [Also published as Nagatomo, et al., 1996.]

Nagatomo, A., Maruiwa, F., Naoi, N., Sawada, A. (1996). Multi-focal electroretinograms in normal subjects. *Nippon Ganka Gakkai Zasshi* 100: 363-368.

Parks, S., Keating, D., Williamson, T.H., et al. (1996). Functional imaging of the retina using the multifocal electroretinograph: a control study. *British Journal of Ophthalmology* 80: 831-834.

Kondo, M., Miyake, Y., Horiguchi, M., et al. (1996). Normal values of retinal response densities in multifocal electroretinogram. *Nippon Ganka Gakkai Zasshi* 100: 810-816.

Parametric Studies (Effect of ___ on normals) / Methods

Chu PH, Chan HH, Leat SJ. Effects of unsteady fixation on multifocal electroretinogram (mfERG). (2006) *Graefes Arch Clin Exp Ophthalmol*. Mar 21; [Epub ahead of print]

Palmowski-Wolfe AM, Woerdehoff U. (2005) A Comparison of the Fast Stimulation Multifocal-ERG in Patients with an IOL and Control Groups of Different Age. *Doc Ophthalmol*. Sep;111(2):87-93. Epub 2006 Mar 2.

Kim CB, Verhoeve JN, Kaufman PL, Nork TM. (2005) Effects of Reference Electrode Location on Monopolar-derived Multifocal Electroretinograms in Cynomolgus Monkeys. *Doc Ophthalmol*. Sep;111(2):113-25. Epub 2006 Mar 2.

Martins A, Klistorner A, Graham S, Billson F. (2005) Effect of fixation tasks on multifocal visual evoked potentials. *Clin Experiment Ophthalmol*. Oct;33(5):499-504.

Winn BJ, Shin E, Odel JG, Greenstein VC, Hood DC. (2005) Interpreting the multifocal visual evoked potential: the effects of refractive errors, cataracts, and fixation errors. *Br J Ophthalmol*. 2005 Mar;89(3):340-4.

Pieh C, Hoffmann MB, Bach M. (2005) The influence of defocus on multifocal visual evoked potentials. *Graefes Arch Clin Exp Ophthalmol*. Jan;243(1):38-42. Epub 2004 Sep 10.

- Menz M, Sutter E, Menz M. (2004) The effect of fixation instability on the multifocal VEP. *Doc Ophthalmol.* Sep;109(2):147-56.
- Tam WK, Chan H, Brown B, Yap M. (2004) Effects of different degrees of cataract on the multifocal electroretinogram. *Eye.* Jul;18(7):691-6.
- Gonzalez P, Parks S, Dolan F, Keating D. (2004) The effects of pupil size on the multifocal electroretinogram. *Doc Ophthalmol.* Jul;109(1):67-72.
- Vrabec TR, Affel EL, Gaughan JP, Foroozan R, Tennant MT, Klancnik JM Jr, Jordan CS, Savino (2004) Voluntary suppression of the multifocal electroretinogram. *Ophthalmology.* Jan;111(1):169-76.
- Tam A, Chan H, Brown B, Yap M. (2004) The effects of forward light scattering on the multifocal electroretinogram. *Curr Eye Res.* Jan;28(1):63-72.
- Chan HL, Tam WK, Chen CL, Ng NC. (2003) The detection of small simulated field defects using multifocal VEPs. *Ophthalmic Physiol Opt.* 2003 May;23(3):205-12.
- Martins A, Balachandran C, Klistorner AI, Graham SL, Billson FA. (2003) Effect of pupil size on multifocal pattern visual evoked potentials. *Clin Experiment Ophthalmol.* Aug;31(4):354-6.
- Chan HL, Siu AW. (2003) Effect of optical defocus on multifocal ERG responses. *Clin Exp Optom.* 2003 Sep;86(5):317-22.
- Shimada Y, Horiguchi M. (2003) Stray light-induced multifocal electroretinograms. *Invest Ophthalmol Vis Sci.* 2003 Mar;44(3):1245-51.
- Balachandran C, Klistorner AI, Graham SL. (2003) Effect of stimulus check size on multifocal visual evoked potentials. *Doc Ophthalmol.* Mar;106(2):183-8.
- Chan HL, Mohidin N. (2003) Variation of multifocal electroretinogram with axial length. *Ophthalmic Physiol Opt.* Mar;23(2):133-40.
- Rudolph G, Kalpadakis P. (2002) The role of fixation for reliable mfERG results. *Graefes Arch Clin Exp Ophthalmol.* Oct;240(10):874-5.
- Kikuchi Y, Yoshii M, Yanashima K, Enoki T, Ide T, Sakemi F, Okisaka S. (2002) Multifocal visual evoked potential is dependent on electrode position. *Jpn J Ophthalmol.* Sep-Oct;46(5):533-9.
- Poloschek CM, Sutter EE. (2002) The fine structure of multifocal ERG topographies. *J Vis.* 2(8):577-87.
- Chappelov AV, Marmor MF. (2002) Effects of pre-adaptation conditions and ambient room lighting on the multifocal ERG. *Doc Ophthalmol.* Jul;105(1):23-31.
- Marmor MF, Chappelov AV, Luo G. (2002) Recognition of small stimulus screen masks using the multifocal ERG. *Doc Ophthalmol.* May;104(3):277-86.
- Meigen T, Friedrich A. (2002) [The reproducibility of multifocal ERG recordings] *Ophthalmologie.* Sep;99(9):713-8. German.
- Chisholm JA, Keating D, Parks S, Evans AL. (2001) The impact of fixation on the multifocal electroretinogram. *Documenta Ophthalmologica* 2001 Mar;102(2):131-9
- Mita M, Nabeshima T, Tazawa Y, Gotoh T, Sugawara T. (2001) [Effects of stimulus intensity on multifocal electroretinograms] *Nippon Ganka Gakkai Zasshi.* Feb;105(2):77-82. Japanese.
- Keating, D., Parks, S., Evans, A. (2000). Technical aspects of multifocal ERG recording. *Documenta Ophthalmologica* 100: 77-98.
- Bock, M., Gerth, C., Lorenz, B. (2000). Impact of notch filter use on waveforms of First- and Second-Order-Kernel responses from multifocal ERGs. *Documenta Ophthalmologica* 101: 195-210.
- Luo G, Marmor MF, Aimee C. (2000) [The influence of experimental scotoma on multifocal electroretinogram] *Yan Ke Xue Bao.* Dec;16(4):254-8. Chinese.
- Heinemann-Vernaleken, B., Palmowski, A., Allgayer, R. (2000). The effect of time of day and repeat reliability on the fast flicker multifocal ERG. *Documenta Ophthalmologica* 101: 247-255.
- Yoshii, M., Yanashima, K., Suzuki, S., Okisaka, S. (2000). Artifact removal procedure distorts multifocal electroretinogram. *Japanese Journal of Ophthalmology* 44: 419-423.

- Palmowski, A.M., Berninger, T., Allgayer, R., et al. (1999). Effects of refractive blur on the multifocal electroretinogram. *Documenta Ophthalmologica* 98: 41-54.
- Arai, M., Lopes de Faria, J.M., Hirose, T. (1999). Effects of stimulus blocking, light scattering, and distortion on multifocal electroretinogram. *Japanese Journal of Ophthalmology* 43: 481-489.
- Bearse, M.A., Sutter, E.E. (1998). Contrast dependence of multifocal ERG components. *Vision Science and Its Applications, 1998 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America*, pp. 24-27.
- Aoyagi, K., Kimura, Y., Isono, H., Akiyama, H., Sugawara, T. (1998). Reproducibility and wave analysis of multifocal electroretinography. *Nippon Ganka Gakkai Zasshi* 102: 340-347.
- Keating, D., Parks, S., Evans, A.L., et al. (1997). The effect of filter bandwidth on the multifocal electroretinogram. *Documenta Ophthalmologica* 92: 291-300.
- Parks, S., Keating, D., Evans, A.L., et al. (1997). Comparison of repeatability of the multifocal electroretinogram and Humphrey perimeter. *Documenta Ophthalmologica* 92: 281-289.
- Mohidin, N., Yap, M.K., Jacobs, R.J. (1997). The repeatability and variability of the multifocal electroretinogram for four different electrodes. *Ophthalmic and Physiological Optics* 17: 530-535.
- Brown, B., Yap, M.K. (1996). Contrast and luminance as parameters defining the output of the VERIS topographical ERG. *Ophthalmic and Physiological Optics* 16: 42-48.

Retinal Dystrophies

- Wabbers B, Preising MN, Kretschmann U, Demmler A, Lorenz B. (2006) Genotype-phenotype correlation and longitudinal course in ten families with Best vitelliform macular dystrophy. *Graefes Arch Clin Exp Ophthalmol*. Apr 13; [Epub ahead of print]
- Scholl HP, Kremers J, Besch D, Zrenner E, Jagle H. (2005) Progressive cone dystrophy with deutan genotype and phenotype. *Graefes Arch Clin Exp Ophthalmol*. Aug 5;:1-9 [Epub ahead of print]
- Lyons JS. (2005) Non-familial occult macular dystrophy. *Doc Ophthalmol*. Jul;111(1):49-56. Epub 2006 Feb 25.
- Szlyk JP, Paliga J, Seiple W, Rabb MF. (2005) Comprehensive functional vision assessment of patients with North Carolina macular dystrophy (MCDR1). *Retina*. Jun;25(4):489-97.
- Renner AB, Tillack H, Kraus H, Kramer F, Mohr N, Weber BH, Foerster MH, Kellner U. (2005) Late onset is common in best macular dystrophy associated with VMD2 gene mutations. *Ophthalmology*. Apr;112(4):586-92.
- Renner AB, Tillack H, Kraus H, Kohl S, Wissinger B, Mohr N, Weber BH, Kellner U, Foerster MH. (2004) Morphology and functional characteristics in adult vitelliform macular dystrophy. *Retina*. Dec;24(6):929-39.
- Renner AB, Tillack H, Kraus H, Kellner U, Foerster MH. (2004) [Clinical diagnostic prerequisites for adult vitelliform macular dystrophy] *Ophthalmologie*. Sep;101(9):895-900. German.
- Saito W, Yamamoto S, Hayashi M, Ogata K. (2003) Morphological and functional analyses of adult onset vitelliform macular dystrophy. *Br J Ophthalmol*. 2003 Jun;87(6):758-62.
- Nagasaka K, Horiguchi M, Shimada Y, Yuzawa M. (2003) Multifocal electroretinograms in cases of central areolar choroidal dystrophy. *Invest Ophthalmol Vis Sci*. Apr;44(4):1673-9.
- Wildberger H, Niemeyer G, Junghardt A. (2003) Multifocal Electroretinogram (mfERG) in a Family with Occult Macular Dystrophy (OMD). *Klin Monatsbl Augenheilkd*. Mar;220(3):111-5.
- Palmowski AM, Allgayer R, Heinemann-Vernaleken B, Scherer V, Ruprecht KW. (2003) Detection of retinal dysfunction in vitelliform macular dystrophy using the multifocal ERG (MF-ERG). *Doc Ophthalmol*. Mar;106(2):145-52.
- Lines MA, Hebert M, McTaggart KE, Flynn SJ, Tennant MT, MacDonald IM. (2002) Electrophysiologic and phenotypic features of an autosomal cone-rod dystrophy caused by a novel CRX mutation. *Ophthalmology*. Oct;109(10):1862-70.
- Gerber DM, Niemeyer G. (2002) [Ganzfeld and multifocal electroretinography in Malattia Leventinese and Zermatt Macular Dystrophy] *Klin Monatsbl Augenheilkd*. Apr;219(4):206-10. German.
- Holopigian K, Seiple W, Greenstein VC, Hood DC, Carr RE. (2002) Local cone and rod system function in progressive cone dystrophy. *Invest Ophthalmol Vis Sci*. Jul;43(7):2364-73.
- Hubsch S, Graf M. (2002) [Foveal cone dystrophy: diagnostic ranking of the multifocal electroretinogram] *Klin Monatsbl Augenheilkd*. May;219(5):370-2. German.

- Gerth C, Andrassi-Darida M, Bock M, Preising MN, Weber BH, Lorenz B. (2002) Phenotypes of 16 Stargardt macular dystrophy/fundus flavimaculatus patients with known ABCA4 mutations and evaluation of genotype-phenotype correlation. *Graefes Arch Clin Exp Ophthalmol*. Aug;240(8):628-38.
- Scholl HP, Schuster AM, Vonthein R, Zrenner E. (2002). Mapping of retinal function in Best macular dystrophy using multifocal electroretinography. *Vision Res*. 42(8):1053-61.
- Feigl B, Haas A. (2001) [Multifocal ERG in central areolar choroidal dystrophy] *Ophthalmologe*. Nov;98(11):1074-8. German.
- Eksandh L, Ekstrom U, Abrahamson M, Bauer B, Andreasson S. (2001) Different clinical expressions in two families with Stargardt's macular dystrophy (STGD1). *Acta Ophthalmol Scand*. 2001 Oct;79(5):524-30.
- Jurklics B, Jurklics C, Schmidt U, Wessing A, Bornfeld N. (2001) [Corneoretinal dystrophy (Bietti)-- Long-term course of one patient over a period of 30 years, and interindividual variability of clinical and electrophysiological findings in two patients] *Klin Monatsbl Augenheilkd*. Aug;218(8):562-9. German.
- Eksandh L, Bakall B, Bauer B, Wadelius C, Andreasson S. (2001) Best's vitelliform macular dystrophy caused by a new mutation (Val89Ala) in the VMD2 gene. *Ophthalmic Genet*. Jun;22(2):107-15.
- Granse L, Abrahamson M, Ponjavic V, Andreasson S. (2001) Electrophysiological findings in two young patients with Bothnia dystrophy and a mutation in the RLBP1 gene. *Ophthalmic Genetics* Jun;22(2):97-105
- Scholl HP, Kremers J, Wissinger B. (2001) Macular dystrophy with protan genotype and phenotype studied with cone type specific ERGs. *Current Eye Research* Mar;22(3):221-8
- Seeliger, M.W., Narfstrom, K. (2000). Functional assessment of the regional distribution of disease in a cat model of hereditary retinal degeneration. *Investigative Ophthalmology and Visual Science* 41: 1998-2005.
- Piao, C., Kondo, M., Tanikawa, A., Terasaki, H., Miyake, Y. (2000). Multifocal electroretinogram in occult macular dystrophy. *Investigative Ophthalmology and Visual Science* 41: 513-517.
- Kretschmann U, Stilling R, Ruther K, Zrenner E. (1999). Familial macular cone dystrophy: diagnostic value of multifocal ERG and two-color threshold perimetry. *Graefes Archives of Clinical and Experimental Ophthalmology* 237: 429-432.
- Fujii, S., Escano, M.F., Ishibashi, K., Matsuo, H., Yamamoto, M. (1999). Multifocal electroretinography in patients with occult macular dystrophy. [Letter] *British Journal of Ophthalmology* 83: 879-880.
- Kretschmann, U., Seeliger, M.W., Ruether, K., et al. (1998). Multifocal electroretinography in patients with Stargardt's macular dystrophy. *British Journal of Ophthalmology* 82: 267-275.
- Kellner, U. (1998). Cone-rod dystrophy with serpentine-like retinal deposits. *Archives of Ophthalmology* 116: 1307-1313.
- Kellner, U., Jandek, C., Kraus, H., Foerster, M.H. (1998). Hereditary macular dystrophies. *Ophthalmologe* 95: 597-601.
- Miyake, Y., Horiguchi, M., et al. (1996). Occult macular dystrophy. *American Journal of Ophthalmology* 122: 644-653.

Retinitis Pigmentosa

- Robson AG, Saihan Z, Jenkins SA, Fitzke FW, Bird AC, Webster AR, Holder GE. (2006) Functional characterisation and serial imaging of abnormal fundus autofluorescence in patients with retinitis pigmentosa and normal visual acuity. *Br J Ophthalmol*. Apr;90(4):472-9.
- Kozma P, Hughbanks-Wheaton DK, Locke KG, Fish GE, Gire AI, Spellicy CJ, Sullivan LS, Bowne SJ, Daiger SP, Birch DG. (2005) Phenotypic characterization of a large family with RP10 autosomal-dominant retinitis pigmentosa: an Asp226Asn mutation in the IMPDH1 gene. *Am J Ophthalmol*. Nov;140(5):858-867. Epub 2005 Oct 7.
- Xi XH, Zheng D, Xia K, Pan Q, Lei LY, Liu Z, Tang CZ, Xia JH, Jiang DY, Deng HX. (2005) [Splicing site mutation of D19S418 in PRPF-31 gene and its phenotypic characters with autosomal dominant retinitis pigmentosa] *Zhonghua Yan Ke Za Zhi*. Nov;41(11):1020-6. Chinese.
- Kozma P, Hughbanks-Wheaton DK, Locke KG, Fish GE, Gire AI, Spellicy CJ, Sullivan LS, Bowne SJ, Daiger SP, Birch DG. (2005) Phenotypic Characterization of a Large Family With RP10 Autosomal-Dominant Retinitis Pigmentosa: An Asp226Asn Mutation in the IMPDH1 Gene. *Am J Ophthalmol*. Oct 5; [Epub ahead of print]

Holopigian K, Shuwairi SM, Greenstein VC, Winn BJ, Zhang X, Carr RE, Hood DC. (2005) Multifocal visual evoked potentials to cone specific stimuli in patients with retinitis pigmentosa. *Vision Res.* Jul 13; [Epub ahead of print]

Popovic P, Jarc-Vidmar M, Hawlina M. (2005) Abnormal fundus autofluorescence in relation to retinal function in patients with retinitis pigmentosa. *Graefes Arch Clin Exp Ophthalmol.* May 20; [Epub ahead of print]

Granse L, Ponjavic V, Andreasson S. (2004) Full-field ERG, multifocal ERG and multifocal VEP in patients with retinitis pigmentosa and residual central visual fields. *Acta Ophthalmol Scand.* Dec;82(6):701-6.

Schatz P, Abrahamson M, Eksandh L, Ponjavic V, Andreasson S. (2003) Macular appearance by means of OCT and electrophysiology in members of two families with different mutations in RDS (the peripherin/RDS gene). *Acta Ophthalmol Scand.* Oct;81(5):500-7.

Scholl HP, Kremers J. (2003) L- and M-cone driven large-field and multifocal electroretinograms in sector retinitis pigmentosa. *Doc Ophthalmol.* Mar;106(2):171-81.

Vajaranant TS, Seiple W, Szlyk JP, Fishman GA. (2002) Detection using the multifocal electroretinogram of mosaic retinal dysfunction in carriers of X-linked retinitis pigmentosa. *Ophthalmology.* Mar;109(3):560-8.

Seeliger MW, Zrenner E, Apfelstedt-Sylla E, Jaissle GB. (2001) Identification of Usher Syndrome Subtypes by ERG Implicit Time. *Invest Ophthalmology and Visual Sciences* 2001 Nov;42(12):3066-3071

Palmowski AM, Allgayer R, Heinemann-Vernaleken B, Scherer V, Eich W, Ruprecht KW. (2001) [A differentiated study of the retinal function in segmental retinitis pigmentosa by multifocal electroretinograms] *Ophthalmologie.* Mar;98(3):294-9. German.

Holopigian, K., Seiple, W., Greenstein, V.C., Hood, D.C., Carr, R.E. (2001). Local cone and rod system function in patients with retinitis pigmentosa. *Investigative Ophthalmology and Visual Science* 42: 779-788.

Radtke, N.D., Aramant, R.B., Seiler, M., Petry, H.M. (1999). Preliminary report: indications of improved visual function after retinal sheet transplantation in retinitis pigmentosa patients. *American Journal of Ophthalmology* 128: 384-387.

Felius, J., Swanson, W.H. (1999). Photopic temporal processing in retinitis pigmentosa. *Investigative Ophthalmology and Visual Science* 40: 2932-2944.

Seeliger, M., Kretschmann, U., Apfelstedt-Sylla, E., Ruther, K., Zrenner, E. (1998). Multifocal electroretinography in retinitis pigmentosa. *American Journal of Ophthalmology* 125: 214-226.

Yoshii, M., Murakami, A., Akeo, K., et al. (1998). Visual function in retinitis pigmentosa related to a codon 15 rhodopsin gene mutation. *Ophthalmic Research* 30: 1-10.

Chan, H.L., Brown, B. (1998). Investigation of retinitis pigmentosa using the multifocal electroretinogram. *Ophthalmic and Physiological Optics* 18: 335-350.

Hood, D.C., Holopigian, K., Greenstein, V., et al. (1997). Assessment of local retinal function in patients with retinitis pigmentosa using the multi-focal ERG technique. *Vision Research* 38: 163-179.

Felius, J., Hood, D.C., Swanson, W.H. (1997). Photopic temporal processing in patients with retinitis pigmentosa studied with the multi-focal ERG and psychophysical techniques. *Vision Science and Its Applications, 1997 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America, pp. 276-279.*

Hood, D.C., Holopigian, K., Greenstein, V., et al. (1997). A comparison of visual field loss to multi-focal ERG changes in patients with RP. *Vision Science and Its Applications, 1997 OSA Technical Digest Series, Vol. 1, Washington, D.C.: Optical Society of America, pp. 272-275.*

Surgery, Follow-up

Tam WK, Chan H, Brown B, Leung KW, Woo V, Yap M. (2005) Comparing the multifocal electroretinogram topography before and after cataract surgery. *Curr Eye Res.* Jul;30(7):593-9.

Wordehoff UV, Palmowski AM, Heinemann-Vernaleken B, Allgayer R, Ruprecht KW (2004) Influence of cataract on the multifocal ERG recording--a pre- and postoperative comparison. *Doc Ophthalmol.* Jan;108(1):67-75.

Theodossiadis G, Theodossiadis P, Malias J, Moschos M, Moschos M. (2002) Preoperative and postoperative assessment by multifocal electroretinography in the management of optic disc pits with serous macular detachment. *Ophthalmology.* Dec;109(12):2295-302.

Mester U, Dillingner P.(2002) Vitrectomy with arteriovenous decompression and internal limiting membrane dissection in branch retinal vein occlusion. *Retina.* Dec;22(6):740-6.

- Apostolopoulos MN, Koutsandrea CN, Moschos MN, Alonistiotis DA, Papaspyrou AE, Mallias JA, Kyriaki TE, Theodossiadis PG, Theodossiadis GP. (2002) Evaluation of successful macular hole surgery by optical coherence tomography and multifocal electroretinography. *Am J Ophthalmol.* Nov;134(5):667-74.
- Chan HL, Siu AW, Yap MK, Brown B. (2002) The effect of light scattering on multifocal electroretinography. *Ophthalmic Physiol Opt.* Nov;22(6):482-90.
- Wu D, Gao R, Zhang G, Wu L. (2002) Comparison of pre- and post-operational multifocal electroretinograms of retinal detachment. *Chin Med J (Engl)*, Oct;115(10):1560-3.
- Martidis A, Greenberg PB, Rogers AH, Velazquez-Estades LJ, Bauman CR. (2002) Multifocal electroretinography response after laser photocoagulation of a subretinal nematode. *Am J Ophthalmol.* Mar;133(3):417-9.
- Mester U, Dillingner P. (2001) [Treatment of retinal vein occlusion. Vitrectomy with arteriovenous decompression and dissection of the internal limiting membrane]. *Ophthalmologie.* Nov;98(11):1104-9. German.
- Moschos M, Apostolopoulos M, Ladas J, Theodossiadis P, Mallias J, Moschos M, Papaspirou A, Theodossiadis G. (2001) Assessment of macular function by multifocal electroretinogram before and after epimacular membrane surgery. *Retina.* 21(6):590-5.
- Moschos M, Mallias J, Ladas I, Theodossiadis P, Moschou M, Theodossiadis G. (2001) Multifocal ERG in retinal detachment surgery. *Eur J Ophthalmol.* Jul-Sep;11(3):296-300.
- Moschos M, Apostolopoulos M, Ladas J, Theodossiadis P, Mallias J, Moschou M, Papaspirou A, Theodossiadis G. (2001) Multifocal ERG changes before and after macular hole surgery. *Doc Ophthalmol.* Jan;102(1):31-40.
- Oh, K.T., Boldt, H.C., Maturi, R.K., Folk, J.C., Kardon, R.H. (2000). Evaluation of patients with visual field defects following macular hole surgery using multifocal electroretinography. *Retina* 20: 238-243.
- Hosokawa, M., Sakagami, K., Hongu, K., et al. (1999). Use of the multifocal electroretinogram to evaluate retinal function after pars plana vitrectomy for diabetic macular edema. *Nippon Ganka Gakkai Zasshi* 103: 464-469.
- Si, Y.J., Kishi, S., Aoyagi, K. (1999). Assessment of macular function by multifocal electroretinogram before and after macular hole surgery. *British Journal of Ophthalmology* 83: 420-424.