

MicroPulse® Laser Therapy

Bibliography of Published Articles, Posters, and Podium Presentations

Retina: Clinical

Age-Related Macular Degeneration

Articles

1. Luttrull DK, Chang DB, Margolis BW, Dorin G, Luttrull KD. Laser resensitization of medically unresponsive neovascular age-related macular degeneration. Efficacy and Implications. *Retina* 2015;35(6):1184-94.

Diabetic Retinopathy: Diabetic Macular Edema

Articles

2. Friberg TR, Karatza EC. The treatment of macular disease using a micropulsed and continuous wave 810-nm diode laser. *Ophthalmology* 1997;104(12):2030-8.
3. Moorman CM, Hamilton AMP. Clinical applications of the MicroPulse diode laser. *Eye* 1999;13(Pt2):145-50.
4. Stanga PE, Reck AC, Hamilton AMP. Micropulse laser in the treatment of diabetic macular edema. *Semin Ophthalmol* 1999;14(4):210-13.
5. Friberg TR. Infrared micropulsed laser treatment for diabetic macular edema – subthreshold versus threshold lesions. *Semin Ophthalmol* 2001;16(1):19-24.
6. Olk RJ, Akduman L. Minimal intensity diode laser photocoagulation (MIP) for diffuse DME. *Semin Ophthalmol* 2001;16(1):25-30.
7. Laursen ML, Moeller F, Sander B, Sjoelie AK. Subthreshold micropulse diode laser treatment in diabetic macular oedema. *Br J Ophthalmol* 2004;88(9):1173-9.
8. Bhagat N, Zarbin MA. Use of diode subthreshold micropulse laser for treating diabetic macular edema. *Contemp Ophthalmol* 2004;3(13):1-10.
9. Tseng Shih-Yu. Clinical application of micropulse diode laser in the treatment of macular edema. *Am J Ophthalmol* 2005;139(4):S58.
10. Luttrull JK, Musch DC, Mainster MA. Subthreshold diode micropulse photocoagulation for the treatment of clinically significant diabetic macular oedema. *Br J Ophthalmol* 2005;(1):89:74-80.
11. Bhagat N, Zarbin MA. Diode subthreshold micropulse laser for diabetic macular edema. *Retinal Physician* 2006;3(2):53-56.
12. Luttrull JK. Atraumatic photocoagulation for retinovascular disease. *Retinal Physician* 2006;3(2):65-69,87.
13. Luttrull JK. Is effective photocoagulation without laser-induced damage possible? *Retina Today* Winter 2006/2007:22-25.
14. Luttrull JK, Spink CJ. Serial optical coherence tomography of subthreshold diode laser micropulse photocoagulation for diabetic macular edema. *Ophthalmic Surg Lasers Imaging* 2006;37(5):370-7.
15. Dare A, Castro L, Lavinsky D, Navajas E, Cardillo JA. Novos horizontes no tratamento do edema de macula diabetico: Fotocoagulacao macular seletiva com micropulse de diodo 810 nm. *JBO* 2007;13:16-20.
16. Sivaprasad S, Sandhu R, Tandon A, Sayed-Ahmed K, McHugh DA. Subthreshold micropulse diode laser photocoagulation for clinically significant diabetic macular oedema: A three-year follow up. *Clin Experiment Ophthalmol* 2007;35(7):640-4.
17. Fletcher E, Chong V. Diabetic macular oedema – is micropulse laser treatment the way forward? *Ophthalmology International* 2008;3(1):19-22.
18. Nakamura Y, Tatsumi T, Arai M, Takatsuna Y, Mitamura Y, Yamamoto S. [Subthreshold micropulse diode laser photocoagulation for diabetic macular edema with hard exudates]. *Nippon Ganka Gakkai Zasshi* 2009;113(8):787-91.
19. Figueira J, Khan J, Nunes S, Sivaprasad S, Rosa A, de Abreu JF, Cunha-Vaz JG, Chong NV. Prospective randomised controlled trial comparing sub-threshold micropulse diode laser photocoagulation and conventional green laser for clinically significant diabetic macular oedema. *Br J Ophthalmol* 2009;93(10):1341-4.
20. Ohkoshi K, Yamaguchi T. Subthreshold micropulse diode laser photocoagulation for diabetic macular edema in Japanese patients. *Am J Ophthalmol* 2010;149(1):133-9.

21. Nakamura Y, Mitamura Y, Ogata K, Arai M, Takatsuna Y, Yamamoto S. Functional and morphological changes of macula after subthreshold micropulse diode laser photocoagulation for diabetic macular oedema. *Eye (Lond)* 2010;24(5):784-8
22. Vujosevic S, Bottega E, Casciano M, Pilotto E, Convento E, Midena E. Microperimetry and fundus autofluorescence in diabetic macular edema: Subthreshold micropulse diode laser versus modified early treatment diabetic retinopathy study laser photocoagulation. *Retina* 2010;30(6):908-16.
23. Venkatesh P, Ramanjulu R, Azad R, Vohra R, Garg S. Subthreshold micropulse diode laser and double frequency neodymium:YAG laser in treatment of diabetic macular edema: A prospective, randomized study using multifocal electroretinography. *Photomed Laser Surg* 2011.
24. Lavinsky D, Cardillo JA, Melo LA, Jr., Dare A, Farah ME, Belfort R, Jr. Randomized clinical trial evaluating mETDRS versus normal or high-density micropulse photocoagulation for diabetic macular edema. *Invest Ophthalmol Vis Sci* 2011;52(7):4314-23.
25. Takatsuna Y, Yamamoto S, Nakamura Y, Tatsumi T, Arai M, Mitamura Y. Long-term therapeutic efficacy of the subthreshold micropulse diode laser photocoagulation for diabetic macular edema. *Jpn J Ophthalmol* 2011.
26. Bhagat N, Zarbin MA. Subthreshold micropulse diode laser for DME. *Retinal Physician* 2011;July/August.
27. Luttrull JK, Sramek C, Palanker D, Spink CJ, Musch DC. Long-term safety, high-resolution imaging, and tissue temperature modeling of sub-visible diode micropulse photocoagulation for retinovascular macular edema. *Retina* 2012;32(2):375-86.
28. Sivaprasad S, Dorin G. Subthreshold diode laser micropulse photocoagulation for the treatment of diabetic macular edema. *Expert Review of Medical Devices* 2012;9(2):189-197.
29. Inagaki K, Iseda A, Ohkoshi K. [Subthreshold micropulse diode laser photocoagulation combined with direct photocoagulation for diabetic macular edema in Japanese patients]. *Nihon Ganka Gakkai Zasshi* 2012;116(6):568-74.
30. Luttrull JK, Dorin G. Subthreshold diode micropulse laser photocoagulation (SDM) as invisible retinal phototherapy for diabetic macular edema: A review. *Curr Diabetes Rev* 2012;8:274-284.
31. Inagaki K, Ohkoshi K, Ohde S. Spectral-domain optical coherence tomography imaging of retinal changes after conventional multicolor laser, subthreshold micropulse diode laser, or pattern scanning laser therapy in Japanese with macular edema. *Retina* 2012;32(8):1592-1600.
32. Vujosevic S, Martini F, Convento E, Longhin E, Kotsafti O, Parrozzani R, Midena E: Subthreshold laser therapy for diabetic macular edema: Metabolic and safety issues. *Curr Med Chem* 2013.
33. Othman, IS, Eissa, SA, Kotb, MS, Sadek, SH: Subthreshold diode-laser micropulse photocoagulation as a primary and secondary line of treatment in management of diabetic macular edema. *Clin Ophthalmol* 2014;8:653-9.
34. Nicolo M, Musetti D, Traverso CE: Yellow micropulse laser in diabetic macular edema: A short-term pilot study. *Eur J Ophthalmol* 2014 Nov-Dec;24(6):885-9.
35. Luttrull JK, Sinclair SH: Safety of transfoveal subthreshold diode micropulse laser for fovea-involving diabetic macular edema in eyes with good visual acuity. *Retina* 2014;34(10):2010-2020.
36. Yadav NK, Jayadev C, Rajendran A Nagpal, M: Recent developments in retinal lasers and delivery systems. *Indian J Ophthalmol* 2014;62(1):50-4.
37. Inagaki K, Ohkoshi K, Ohde S, Deshpande G, Ebihara N, Murakami A: Comparative efficacy of pure yellow (577-nm) and 810-nm subthreshold micropulse laser photocoagulation combined with yellow (561–577-nm) direct photocoagulation for diabetic macular edema. *Jpn J Ophthalmol* 2014:1-8.
38. Vujosevic S, Martini F, Longhin E, Convento E, Cavarzeran F, Midena E. Subthreshold micropulse yellow laser versus subthreshold micropulse infrared laser in center-involving diabetic macular edema: Morphological and functional safety. *Retina* Published Ahead of Print 2015.

Posters and Podium Presentations

39. Grigorian RA, Zarbin MA, Brimacombe R, Tutela A, Roy M, Bhagat N. Comparison of subthreshold micropulse diode laser photocoagulation with conventional laser photocoagulation for clinically significant macular edema in diabetic patients. *Invest Ophthalmol Vis Sci* 2004;45:ARVO E-Abstract 4067.
40. Avery RL, Pieramici DJ, Nasir MA, Rhodes K, Robbins E. Micropulse laser for diabetic macular edema: A prospective pilot study. *Invest Ophthalmol Vis Sci*. 2004;45:E-Abstract 4143.

41. Zagidullina A, Battaglia Parodi M, Iacono P, Fachin A, Ravalico G. Subthreshold micropulse grid laser treatment for clinically significant diabetic macular edema. *Invest Ophthalmol Vis Sci.* 2007;48:E-Abstract 1403.
42. Bhagat N, Grigorian R, Zarbin MA, Roy M, Patel N. Subthreshold micropulse diode laser photocoagulation (SMDLP) for the treatment of diabetic clinically significant macular edema. SOE/AAO Joint Congress, Vienna 9-12 June, 2007. Abstract EP-RET-095.
43. Cardillo JA, Dare A, Peroni R, Lavinsky D, Costa RA, Moreira CE. Optimal endpoint and lesion character for subthreshold micropulse photocoagulation protocols targeting diabetic macular edema. ARVO Meeting Abstracts 2009;50(5):217.
44. Midena E, Vujosevic S, Pilotto E. In vivo laser-tissue interactions in central involving diabetic macular edema treated with subthreshold micropulse diode laser. 2011 Macula Society Boca Raton, FL.
45. Peroni R, Cardillo JA, Dare AJ, Aguirre JG, Lavinsky D, Farah ME, Belfort R. A combined low energy, short pulsed 577 nm mild macular grid photocoagulation with 577 nm-micropulsed central laser stimulation for diabetic macular edema with foveal leakage (the sandwich grid). ARVO Meeting Abstracts 2011;52(6):590.
46. Aguirre JGM, Cardillo JA, Dare AJ, Peroni R, Lavinsky D, Farah ME, Belfort R. 577 nm short pulsed and low energy selective macular grid laser photocoagulation for diffuse diabetic macular edema. ARVO Meeting Abstracts 2011;52(6):592.
47. Saksonov S, Suk S, Rykov S, Kuznecova T, Milienko M. Advantages of subthreshold micropulse yellow 577 nm coagulation in comparison with classic modified ETDRS focal-grid laser photocoagulation in diffuse diabetic macular edema. Paper. XX Annual Meeting - Combined Meeting of VIth APVRS & XXth VRSI. Hyderabad, India. December 1 - 3, 2011.
48. Monaco P, Cappello E, Cirone M, Del Borrello M, Tollot L, Frattolillo A, Vaccaro M, Sperti F, Cigada MV. Subthreshold micropulse diode laser versus conventional green laser in clinically significant diabetic macular edema. ARVO Meeting Abstracts 2012;53(6):413.
49. Flores-Aguilar M, Flores-Aguilar C. Micropulsed 577 nm laser stimulation for diabetic macular edema with foveal leakage. ARVO Meeting Abstracts 2012;53(6):418.
50. Ihab Othman, MicroPulse laser following intra vitreal bevacizumab in diffuse DME. 12th EVRS Congress, Dresden, Germany. September 15 – 18, 2012
51. Sinclair S. MicroPulse contiguous grid laser for resistant diffuse DME. 12th EVRS Congress, Dresden, Germany. September 15 – 18, 2012
52. Martin Flores-Aguilar, Micropulsed 577 nm laser stimulation for DME. 12th EVRS Congress, Dresden, Germany. September 15 – 18, 2012
53. Fruschelli M, Sparagna MC, Denaro R, Menicacci F, Esposti G, Esposti PL. Subthreshold micropulse photostimulation with true yellow 577 nm diode laser for macular edema. 12th EVRS Congress. Dresden, Germany. September 15 - 18, 2012.
54. Morrison-Reyes J, Mansour S, Mathura J. Treatment of refractory macular edema following intravitreal pharmacotherapy with the 577 nm micropulse subthreshold grid laser. 30th Anniversary Annual Scientific Meeting of the American Society of Retina Specialists. Las Vegas, NV. 2012.
55. Sinclair SH, Zhang Y, Kasenchak J, Parvus BJ, Presit P. Micropulse contiguous grid laser for resistant diffuse diabetic macular edema (DDME). 30th Anniversary Annual Scientific Meeting of the American Society of Retina Specialists. Las Vegas, NV. 2012.
56. Peroni R, Cardillo JA, Dare AJ, Jorge R: Microperimetry-guided micropulsed laser photo stimulation for the treatment of diabetic macular edema. *Invest Ophthalmol Vis Sci.* 2013;54:E-Abstract 2365.
57. Adyanthaya, R, Zavala, G, Gonzalez, V: Subthreshold micropulse diode laser photocoagulation as monotherapy for mild to moderate diabetic macular edema. *Invest Ophthalmol Vis Sci.* 2013;54(6):E-Abstract 2381.
58. Subbiah S, Donaldson M, Pradhan M: Tissue sparing micropulse laser for the treatment of diabetic macular oedema. *Invest Ophthalmol Vis Sci.* 2013;54(6):E-Abstract 2382.
59. Wong S, Ramenaden E, Alhabshan R, Smithen L, Mathura RJ: The efficacy and safety of 577-nm subthreshold diode micropulse photocoagulation in macular edema. *Invest Ophthalmol Vis Sci.* 2014;55:E-Abstract 6360.
60. Thinda S, Patel A, Hunter AA, Moshiri A, Morse LS: Combination therapy with subthreshold Diode laser micropulse photocoagulation and intravitreal anti-vascular endothelial growth factor injections for diabetic macular edema. *Invest Ophthalmol Vis Sci.* 2014;55:E-Abstract 6363.
61. Thinda S, Patel A, Hunter AA, Moshiri A, Morse LS. SDM laser photocoagulation and anti-VEGF therapy for diabetic macular edema. *Invest Ophthalmol Vis Sci.* 2015;56(7);5680-5680.

CME Course

62. Majcher C, Gurwood AS. A review of micropulse laser photocoagulation. *Review of Optometry* 2011;CE Course: Release Date: November 2011; Expiration Date: December 1, 2014.

Diabetic Retinopathy: Proliferative Diabetic Retinopathy

Articles

63. Moorman CM, Hamilton AMP. Clinical applications of the micropulse diode laser. *Eye* 1999;13(Pt2):145-50.
64. Luttrull JK, Musch DC, Spink CA. Subthreshold diode micropulse panretinal photocoagulation for proliferative diabetic retinopathy. *Eye (Lond)* 2008;22(5):607-12.
65. Kumar V, Ghosh B, Raina UK, Goel N. Subthreshold diode micropulse panretinal photocoagulation for proliferative diabetic retinopathy. *Eye* 2009;23(11):2122-23.
66. Luttrull JK, Musch D, Spink C. Reply to Dr Kumar, et al. *Eye* 2009;23(11):2123.

Macular Edema Secondary to Branch Retinal Vein Occlusion

Articles

67. Parodi MB, Spasse S, Iacono P, Di Stefano G, Canziani T, Ravalico G. Subthreshold grid laser treatment of macular edema secondary to branch retinal vein occlusion with micropulse infrared (810 nanometer) diode laser. *Ophthalmology* 2006;113(12):2237-42.
68. Parodi MB, Iacono P, Ravalico G. Intravitreal triamcinolone acetonide combined with subthreshold grid laser treatment for macular edema in branch retinal vein occlusion: A pilot study. *Br J Ophthalmol* 2008;92(8):1046-50.
69. Luttrull JK. Laser for BRVO: History and current practice. *Retina Today* 2011;May/June:74-76.
70. Inagaki K, Ohkoshi K, Ohde S, Deshpande GA, Ebihara N, Murakami A: Subthreshold Micropulse Photocoagulation for Persistent Macular Edema Secondary to Branch Retinal Vein Occlusion Including Best-Corrected Visual Acuity Greater Than 20/40. *J Ophthalmol* 2014;2014:251257.

Posters and Podium Presentations

71. Saksonov S, Suk S, Tatiana K, Polina A. Advantages of subthreshold micropulse 577 nm yellow laser in comparison with classic laser photocoagulation in macular edema secondary to BRVO. Poster PO1-040. XX Annual Meeting - Combined Meeting of VIth APVRS & XXth VRSI. Hyderabad, India. December 1 - 2, 2011.

Cystoid Macular Edema Secondary to Central Vein Occlusion

Posters and Podium Presentations

72. Saksonov S, Suk S, Rykov S, Denisuk N, Romanava T. Micropulse 577 nm yellow laser combined with intravitreal ranibizumab in comparison with ranibizumab as monotherapy in cystoid macular edema secondary to CVO. XX Annual Meeting - Combined Meeting of VIth APVRS & XXth VRSI. Hyderabad, India. December 1 - 2, 2011.
73. Saskonov S, Suk S. Micropulse 577 nm yellow laser combined with intravitreal ranibizumab in comparison with ranibizumab as monotherapy in CVO. 12th EURETINA Congress. Milan, Italy. 6-9 September, 2012.
74. Salvetti P, de Polo L, Oldani M, Ruello R: Early changes on SD-OCT in eyes with cystoid macular edema (CME) after 577 nm subthreshold micropulse laser treatment (MPLT). *Invest Ophthalmol Vis Sci.* 2013;(54):E-Abstract 4141.
75. Aguirre JG, Dare AJ: Micropulse laser therapy for the treatment of longstanding refractory pseudophakic cystoid macular edema. *Invest Ophthalmol Vis Sci.* 2014;(55):E-Abstract 6356.
76. Wong SS, Alhabshan RN, Lee JY, McLaughlin JP, Ding R, Mansour SE: The effect of micropulse laser therapy on macular edema associated with retinal vein occlusions. Poster. ASRS, San Diego, CA. 2014

Central Serous Chorioretinopathy

Articles

77. Ricci F, Missiroli F, Cerulli L. Indocyanine green dye-enhanced micropulsed diode laser: A novel approach to subthreshold RPE treatment in a case of central serous chorioretinopathy. *Eur J Ophthalmol* 2004;14(1):74-82.
78. Lanzetta P, Furlan F, Morgante L, Verritti D, Bandello F. Nonvisible subthreshold micropulse diode laser (810 nm) treatment of central serous chorioretinopathy. A pilot study. *Eur J Ophthalmol* 2008;18(6):934-40.
79. Chen SN, Hwang JF, Tseng LF, Lin CJ. Subthreshold diode micropulse photocoagulation for the treatment of chronic central serous chorioretinopathy with juxtafoveal leakage. *Ophthalmology* 2008;115(12):2229-34.
80. Ricci F, Missiroli F, Regine F, Grossi M, Dorin G. Indocyanine green enhanced subthreshold diode-laser micropulse photocoagulation treatment of chronic central serous chorioretinopathy. *Graefes Arch Clin Exp Ophthalmol* 2009;247(5):597-607.
81. Gupta B, Elagouz M, McHugh D, Chong V, Sivaprasad S. Micropulse diode laser photocoagulation for central serous chorio-retinopathy. *Clin Experiment Ophthalmol* 2009;37(8):801-5.
82. Maia A. A new treatment for choric central serous retinopathy. *Retina Today* 2010;January/February:62-64
83. Koss MJ, Beger I, Koch FH. Subthreshold diode laser micropulse photocoagulation versus intravitreal injections of bevacizumab in the treatment of central serous chorioretinopathy. *Eye (Lond)* 2012;26(2):307-14
84. Beger I, Koss M, Koch F. [treatment of central serous chorioretinopathy : Micropulse photocoagulation versus bevacizumab.]. *Ophthalmologe Online First*, 6 October 2012.
85. Roisman L, Magalhaes FP, Lavinsky D, Moraes N, Hirai FE, Cardillo JA, Farah ME: Micropulse diode laser treatment for chronic central serous chorioretinopathy: A randomized pilot trial. *Ophthalmic Surg Lasers Imaging Retina* 2013;44(5):465-70.
86. Malik KJ, Sampat KM, Mansouri A, Steiner JN, Glaser BM: Low-intensity/high-density subthreshold micropulse diode laser for chronic central serous chorioretinopathy. *Retina* 2015;35(3):532-536.

Posters and Podium Presentations

87. Dare AR, Cardillo JA, Tognin F. Sub-threshold infrared micro pulsed laser treatment for chronic central serous choroidopathy. *Invest Ophthalmol Vis Sci* 2008;49:ARVO E-Abstract 4718.
88. Keunen JE, Pijl BJ, Theelen T. Micropulse diode laser treatment in central serous chorioretinopathy. 26th Meeting of the Club Jules Gonin, September 2008, St. Moritz, Switzerland. Abstract 87.
89. Dare AR, Lavinsky D, Magalhaes F, Roisman L, Tognin F, Moreira CE, Cardillo JA. Focal juxtafoveal and grid pattern selective micropulse laser photocoagulation for treatment of chronic central serous chorioretinopathy. *Invest Ophthalmol Vis Sci* 2009;50:ARVO E-Abstract 214.
90. Cardillo JA, Lavinsky D, Magalhaes F, Roisman L, Farah ME, Dare AJR. An optimized focal juxtafoveal and grid pattern subthreshold laser photocoagulation technique for the treatment of central serous chorioretinopathy. *Retina Congress 2009, New York, NY. Scientific Paper, Page 69.*
91. Keunen JE, Pijl BJ, Theelen T. Micropulse diode laser treatment in central serous chorioretinopathy. *Retina Congress 2009, New York, NY. Scientific Poster 910, Page 217.*
92. Dare AJ, Peroni R, Castro L, Moreira CE, Lavinsky D, Magalhaes F, Cardillo JA. Subfoveal subthreshold laser photocoagulation technique for the treatment of central serous chorioretinopathy. *ARVO Meeting Abstracts* 2010;51(5):1347.
93. Maia AM, Penha FM, Regatieri CVS, Cardillo JA, Farah ME. Micropulse 577nm - yellow laser photocoagulation for central serous chorio-retinopathy. *Invest Ophthalmol Vis Sci* 2010;51(5):4273.
94. Dare AJ, Cardillo JA, Lavinsky D, Belfort R, Jr., Moreira CE. 577 nm yellow selective subthreshold laser photocoagulation for the treatment of central serous chorioretinopathy with foveal leakage. *Invest Ophthalmol Vis Sci* 2011;52(6):6622.
95. Cardillo JA. 577 nm yellow selective subthreshold laser photocoagulation for the treatment of central serous chorioretinopathy with foveal leakage. *The 44th Retina Society Annual Scientific Meeting and the Società Italiana della Retina Society, Rome, Italy. September 21-25, 2011.*
96. Fruschelli M, Sparagna MC, Denaro R, Menicacci F, Esposti G, Esposti PL. Subthreshold micropulse photostimulation with true yellow 577 nm diode laser for macular edema. *12th EVRS Congress. Dresden, Germany. September 15 - 18, 2012.*

97. Saskonov S, Suk S. Subthreshold miropulse 577 nm coagulation of multifocal central serous chorioretinopathy 12th EURETINA Annual Congress. Milan, Italy. 6-9 September, 2012.
98. Giral J, Casaroli-Marano RP, Burés-Jelstrup A: Subthreshold diode micropulse laser photocoagulation versus low-fluence photodynamic therapy for the treatment of chronic central serous chorioretinopathy. *Invest Ophthalmol Vis Sci.* 2013;54:E-Abstract 4140.
99. Dare AJ, Peroni R, Paganelli F, Castro LC: Micropulsed laser therapy outcomes in the treatment of chronic central serous chorioretinopathy based on leakage pattern. *Invest Ophthalmol Vis Sci.* 2014;(55):E-Abstract 6385.

Serous Pigment Epithelium Detachment

Articles

100. Battaglia-Parodi M, Sheth S, Papayannis A, Bandello F. Treatment of serous pigment epithelium detachment with subthreshold micropulse diode laser photocoagulation: A case report. *Eur J Ophthalmol* 2009;19(5):887-9.

Symptomatic Retinal Arterial Macroaneurysms

Articles

101. Parodi MB, Iacono P, Ravalico G, Bandello F. Subthreshold laser treatment for retinal arterial macroaneurysm. *Br J Ophthalmol* 2011;95(4):534-538
102. Battaglia Parodi M, Iacono P, Pierro L, Papayannis A, Kontadakis S, Bandello FM. Subthreshold laser treatment versus threshold laser treatment for symptomatic retinal arterial macroaneurysm. *Invest Ophthalmol Vis Sci* 2012;53(4):1783-6.

Retina: Pre-Clinical

Articles

103. Pankratov MM. Pulsed delivery of laser energy in experimental thermal retinal photocoagulation. *SPIE* 1990;1202 *Laser-Tissue Interaction*:205-13.
104. Roeder J, Hillenkamp F, Flotte T, Birngruber R. Microphotocoagulation: Selective effects of repetitive short laser pulses. *Proc Natl Acad Sci USA* 1993;90(18):8643-7.
105. Ogata N, Ando A, Uyama M, Matsumura M. Expression of cytokines and transcription factors in photocoagulated human retinal pigment epithelial cells. *Graefes Arch Clin Exp Ophthalmol* 2001;239(2):87-95.
106. Ogata N, Tombran-Tink J, Jo N, Mrazek D, Matsumura M. Upregulation of pigment epithelium-derived factor after laser photocoagulation. *Am J Ophthalmol* 2001;132(3):427-9.
107. Wilson AS, Hobbs BG, Shen WY, Speed TP, Schmidt U, Begley CG, Rakoczy PE. Argon laser photocoagulation-induced modification of gene expression in the retina. *Invest Ophthalmol Vis Sci* 2003;44(4):1426-34.
108. Barak A, Goldkorn T, Morse LS. Laser induces apoptosis and ceramide production in human retinal pigment epithelial cells. *Invest Ophthalmol Vis Sci* 2005;46(7):2587-91.
109. Chan-Ling T, Baxter L, Afzal A, Sengupta N, Caballero S, Rosinova E, Grant MB. Hematopoietic stem cells provide repair functions after laser-induced bruch's membrane rupture model of choroidal neovascularization. *Am J Pathol* 2006;168(3):1031-44.
110. Harris JR, Brown GA, Jorgensen M, Kaushal S, Ellis EA, Grant MB, Scott EW. Bone marrow-derived cells home to and regenerate retinal pigment epithelium after injury. *Invest Ophthalmol Vis Sci* 2006;47(5):2108-13.
111. Binz N, Graham CE, Simpson K, Lai YK, Shen WY, Lai CM, Speed TP, Rakoczy PE. Long-term effect of therapeutic laser photocoagulation on gene expression in the eye. *FASEB J* 2006;20(2):383-5.
112. Desmettre TJ, Mordon SR, Buzawa D, Mainster MA. Micropulse and continuous-wave diode retinal photocoagulation: Visible and subvisible laser parameters. *Br J Ophthalmol* 2006;90(6):709-12.
113. Ricci F, Pucci S, Sesti F, Missiroli F, Cerulli L, Giusto Spagnoli, L. Modulation of Ku70/80, Clusterin/ApoJ Isoforms and Bax Expression in Indocyanine-Green-Mediated Photo-Oxidative Cell Damage. *Ophthalmic Res* 2007;39:164–173.
114. Flaxel C, Bradle J, Acott T, Samples JR. Retinal pigment epithelium produces matrix metalloproteinases after laser treatment. *Retina* 2007;27(5):629-34.
115. Colome J, Ruiz-Moreno JM, Montero JA, Fernandez E. Diode laser-induced mitosis in the rabbit retinal pigment epithelium. *Ophthalmic Surg Lasers Imaging* 2007;38(6):484-90.

116. Wang HC, Brown J, Alayon H, Stuck BE. Transplantation of quantum dot-labelled bone marrow-derived stem cells into the vitreous of mice with laser-induced retinal injury: Survival, integration and differentiation. *Vision Res* 2010;50(7):665-73.
117. Miura Y, Treumer F, Klettner A, Hillenkamp J, Brinkmann R, Birngruber R, Roeder J. VEGF and PEDF secretions over time following various laser irradiations on an RPE organ culture. *Invest Ophthalmol Vis Sci* 2010;51(5):469.
118. Zhuravleva ES, Saburina IN, Borzenok SA, Doga AV, Kosheleva NV, Kachalina GF, Magaramov DA, Tonaeva Kh D. [Experimental study of safety in application of the IRIS Medical IQ 810 diode laser in clinical treatment of age-related macular degeneration]. *Patol Fiziol Eksp Ter* 2011;(3):16-20.
119. Yu AK, Merrill KD, Truong SN, Forward KM, Morse LS, Telander DG: The comparative histologic effects of subthreshold 532- and 810-nm diode micropulse laser on the retina. *Invest Ophthalmol Vis Sci* 2013;54(3):2216-2224.

Posters and Podium Presentations

120. Kaushal S, Afzal A, Annamalai M, Neeley A, Caballero S, Chan-Ling T, Grant MB. Expression studies of laser-induced RPE stress. *Invest Ophthalmol Vis Sci* 2008;49:ARVO E-Abstract 3987.
121. Kaushal S, Afzal A, Ko H, Neeley A, Grant M, Annamalai M. Upregulation of the stem cell chemoattractant SDF-1 by laser or heat shock to the RPE. 26th Meeting of the Club Jules Gonin, September 2008, St. Moritz, Switzerland. Abstract 102.
122. Ricci FU, Mazzarelli P, Zonetti MJ, Missiroli F, Jr., Cesareo M, Sr., Pucci S. 810 nm micropulse laser irradiation selectively regulates VEGF165 isoforms expression acting on RNA binding splice factor activation in indocyanine green loaded ARPE19 and Caco2 cultured cells. *Invest Ophthalmol Vis Sci* 2010;51(5):56.

Retina: Tissue-Sparing Related Literature

Articles

123. Sliney DH, Marshall J. Tissue specific damage to the retinal pigment epithelium: Mechanisms and therapeutic implications. *Laser Light in Ophthalmol* 1992;5(1):17-28.
124. Berger JW. Thermal modelling of micropulsed diode laser retinal photocoagulation. *Laser Surg Med* 1997;20(4):409-15.
125. Mainster MA. Decreasing retinal photocoagulation damage: Principles and techniques. *Semin Ophthalmol* 1999;14(4):200-9.
126. Lanzetta P, Dorin G, Piracchio A, Bandello F. Theoretical bases of non-ophthalmoscopically visible endpoint photocoagulation. *Semin Ophthalmol* 2001;16(1):8-11.
127. Dorin G. Subthreshold and micropulse diode laser photocoagulation. *Semin Ophthalmol* 2003;18(3):147-53.
128. Dorin G. Evolution of retinal laser therapy: Minimum intensity photocoagulation (MIP). Can the laser heal the retina without harming it? *Semin Ophthalmol* 2004;19(1-2):62-68.
129. Lanzetta P, Polito A, Verritti D. Subthreshold laser. *Ophthalmology* 2008;115(1):216.e1.
130. Sivaprasad S, Elagouz M, McHugh D, Shona O, Dorin G. Micropulsed diode laser therapy: Evolution and clinical applications. *Surv Ophthalmol* 2010;55(6):516-30.
131. Ohkoshi K, Tsuiki E, Kitaoka T, Yamaguchi T. Visualization of subthreshold micropulse diode laser photocoagulation by scanning laser ophthalmoscopy in the retro mode. *Am J Ophthalmol* 2010;150(6):856-862.e2
132. Youssef PN, Sheibani N, Albert DM. Retinal light toxicity. *Eye (Lond)* 2011;25(1):1-14.

Posters and Podium Presentations

133. Dorin G, Arias E, Buzawa D. Evolution of laser therapy for diabetic retinopathy: Are retinal destruction and collateral adverse effects prerequisites for an effective treatment? *Invest Ophthalmol Vis Sci* 2008;49:E-Abstract 2758.
134. Dorin G, Buzawa D, Mercereau J. Evolution of the laser treatment of diabetic retinopathy (DR): From laser surgery to laser therapy. EVER 2008, Abstract 613.
135. Dorin G. Threshold and Subthreshold Retinal Laser Therapy. But Which Threshold? *Invest Ophthalmol Vis Sci* 2013;(53):E-Abstract 4142.

Glaucoma: Clinical

Articles

136. Fea AM, Bosone A, Rolle T, Brogliatti B, Grignolo FM. Micropulse diode laser trabeculoplasty (MLT): A phase II clinical study with 12 months follow-up. *Clin Ophthalmol* 2008;2(2):247-52.
137. Fea AM, Dorin G. Laser treatment of glaucoma: Evolution of laser trabeculoplasty techniques. *Techniques in Ophthalmology* 2008;6(2):45-52.
138. Tan A, Chockalingam M, Aquino M, Lim Z, See J, Chew P. Micropulse transscleral diode laser cyclophotocoagulation in the treatment of refractory glaucoma. *Clin Experiment Ophthalmol* 2010;38(3):266-72.
139. Samples JR, Singh K, Lin SC, Francis BA, Hodapp E, Jampel HE, Smith SD: Laser trabeculoplasty for open-angle glaucoma: A report by the American Academy of Ophthalmology. *Ophthalmology* 2011.
140. Aquino MC, Barton K, Tan AM, Sng C, Li X, Loon SC, Chew PT: Micropulse versus continuous wave trans-scleral diode cyclophotocoagulation in refractory glaucoma: A randomised exploratory study. *Clin Experiment Ophthalmol* 2014.
141. Tsang S, Cheng J, Lee JW. Developments in laser trabeculoplasty. *Br J Ophthalmol* published ahead of print. 2015

Posters and Podium Presentations

142. Ingvaldstad DD, Krishna R, Willoughby L. Micropulse diode laser trabeculoplasty versus argon laser trabeculoplasty in the treatment of open angle glaucoma. *Invest Ophthalmol Vis Sci* 2005;46:ARVO E-Abstract 123.
143. Melis R, Pilotto E, Vujosevic S, Dorigo MT, Midena E. Micropulse diode laser trabeculoplasty for secondary corticosteroid induced glaucoma. EVER 2008, Abstract 5356.
144. Iwach AG. Micropulse laser. Overview of micropulse diode laser trabeculoplasty: What we know and don't know. AAO 2008, Atlanta, GA. Glaucoma 2008 Subspecialty Day, Pages 17-18.
145. Aquino MCD, Tan AM, Loon SC, Chew PT: Transscleral micropulse diode laser cyclophotocoagulation as effective adjunctive treatment prior to glaucoma surgery. *Invest Ophthalmol Vis Sci* 2012;(53):E-Abstract 5962
146. Coombs P, Radcliffe NM: Outcomes of micropulse laser trabeculoplasty vs. selective laser trabeculoplasty. *Invest Ophthalmol Vis Sci* 2014;(55):E-Abstract 6155.
147. Arcieri ES, Arcieri RS: Micropulse diode laser trabeculoplasty results in treatment of primary open-angle glaucoma patients. *Invest Ophthalmol Vis Sci* 2014;(55):E-Abstract 6165.
148. Chadha N, Belyea D, Lamba T, Abramowitz B. A randomized, prospective comparison of 360 degree selective laser trabeculoplasty (SLT) vs. 577 nm micropulse laser trabeculoplasty (MLT) in eyes with open-angle glaucoma. American Glaucoma Society 25th Annual Meeting. 2015. San Diego, CA.

Glaucoma: Pre-Clinical

Posters and Podium Presentations

149. Grzybowski DM, Kim B, Roberts CJ, Weber PA. Cytokine & MMP production after CW and micropulse diode laser irradiation in responsive vs non-responsive cultured human trabecular meshwork endothelial cells (TMEC). *Invest Ophthalmol Vis Sci* 2007;48:ARVO E-Abstract 2068.
150. Fudenberg SJ, Myers JS, Katz LJ. Trabecular meshwork tissue examination with scanning electron microscopy: A comparison of micropulse diode Laser (MLT), selective laser (SLT), and argon laser (ALT) trabeculoplasty in human cadaver tissue. *Invest Ophthalmol Vis Sci* 2008;49:E-Abstract 1236.
151. Kim B, Grzybowski DM, Mahmoud AM, Weber PA, Roberts C. Heat shock protein expression following micropulse and continuous wave diode laser irradiation of cultured human trabecular meshwork endothelial cells. *Invest Ophthalmol Vis Sci* 2008;49:ARVO E-Abstract 1632.
152. Wingard JB, Miller KV, Pokabla MJ, Strunk KM, Gray JL, Bentivegna R, Noecker RJ. Comparison of morphologic changes after continuous and micropulse yellow laser trabeculoplasty by scanning electron microscopy. American Society of Cataract and Refractive Surgery, Poster. 2011 San Diego, CA.