



LETTERATURA LASER FOTODINAMICA

1. Tonetti Ms,Mombelli A. Early-onset periodontitis. Ann Periodontal 1999;4:39-52
2. Dewhirst Fe,Chen T, Izard J,Paster BJ,Tann AC,Yu WH,Lakshmanan A,Wade WG. The human oral microbiome. J Bacterial 2010;195:5002-17
3. Löe H,Theilade E, Jensen SB. Experimental gingivitis in man. J Periodontol 1965;36:177-87
4. Moore We,Moore LV. The bacteria of periodontal disease. Periodontol 2000 1994;5:66-77
5. Contreras A,Slots J. Herpeses viruses in human periodontal disease. J Periodontol Res 2000;35:3-16
6. Kolenbrander PE. Oral microbial communities: biofilms, interactions and Genetyc System. Annu Rev Microbiol 2000;54:413-37
7. Haffajee AD, Cugini MA, Dibart S, Smith C,Kent RL,Socransky SS. The effect of SRP on the clinical and microbiological parameters of peridental diseases. J Clin Periodontol 1997; 24:324-34
8. Soukos NS,Gooodson JM. Photodynamic therapy in the control of oral biofilms. Periodontol 2000,2011;55:143-166
9. Darby IB,Mooney J,kinane DF. Change in subgingival microflora and humoral immune response following periodontal therapy. J Clin Periodontol 2001;28:796-805
10. Tunkel J,Heinecke A,Fleming TF. A sistematic review of efficacy of machine-driven and manual subgingival debriedment in the treatment of chronic periodontitis. J Clin Perdiontol 2002;29(3):72-81
11. Lindhe J, Nyman S. Clinical trials in periodontal therapy. J Periodontal Res 1987;22:217-21
12. Kim Y. Furcation involvements: therapeutic considerations. Compend Contin Educ Dent 1998;19:1236-40
13. Teughels W,Dekeyser C, Van Esche M,Quirynen M. One stage, full-mouth disinfection: fiction or reality? Peridontol 2000 2009;50:39-51
14. Fleischer Hc,Mellonig JT,Brayer WH,Gray JL,Barnett JD. Scaling and root planning efficacy in multirooted teeth. J Periodontol 1989;60:402-9
15. Matuliene G,Pjetursson BE, Salvi GE, Schmidlin K, Braegger U,Zwahlen M,Lang NP. Influence of residual pockets on progression of periodontitis and tooth loss: results after 11 years of maintenance. J Clin Periodotol 2008;35:685-95
16. Waerhaug J. Healing of the endo-epithelial juction following subgingival plaque control II: As observed on extracted teeth. J Periodontol 1978;49:119-34
17. Rabbani Gm,Ash MM Jr,Caffles RG. The effectiveness of subgingival scaling and root planning in calculus removal. J Periodontol 1981;52:-119-23
18. Stambough RV, Dragoo M, Smith DM, Carasali L. The limits of subgingival scaling. Int Periodontics Restorative Dent 1981;1:130-41
19. Badersten A, Nilveus R,Egelberg J. Effect of nonsurgical periodontal therapy. II. Severely advanced periodontitis. J Clin Periodontol 1944;11:63-76
20. Lindhe J,Nyman S. Long- term maintenance of patients treated for advanced periodontal disease. J Clin Periodontol 1984;11:504-14
21. Rosling B, Serino G, Hellstroem Mk,Socransky SS,Lindhe J. Longitudinal periodontal tissue alternations during supportive therapy. Findings from subjects with normal and high susceptibility to periodontal desease. J Clin Periodontol 2001;28:241-9
22. Errera D,Sanz M,Jepsen S,Needleman I,Roldan S. A sistematic review of the effect of systemic antimicro-



- bials as an adjunct to scaling and rootplanning in periodontitis patients. *J Clin Periodontol* 2002;29(3):136-59
23. Haffajee Ad, Socransky SS, unsolley JC. Systemic anti-infective periodontal therapy. A sistematic review. *Ann Periodontol* 2003;8:115-81
24. Guerrero A,Griffiths S,Nibali L,Suvan J,Moles DR,Lurell L, Tonetti MS. Adjunctive benefits of systemic amoxicillin and metronidazole in non-surgical treatment of generalized aggressive periodotitis: a randomized placebo-controlled clinical tiral. *J Clin Peridontol* 2005;32:1096-107
25. Griffiths GS,Ayoub,Aguerrero A, Nibali L,Suvan J,Moles DR,Tonetti MS. Amoxicillin and metronidazole as an adjunctive treatment in generalized aggressive periodotitis at initial therapy or re-treatment: a randomized controlled clinical trial. *J Clin Periodontol* 2011;38:43-9
26. Brown SB,Brown EA, Walker I. The present and future role of photodynamic therapy in cancer treatment. *Lancet Oncol* 2004;5:497-508
27. Huang Z. A review of proves in clinical photodynamic therapy. *Technol Cancer Res Treat* 2005;4:283-93
28. Rai R, Natarajan K. Laser and light based treatment of acne. *Indian J Dermatol Venereol Leprol* 201;79:300-9
29. Bown SG. Photodynamic therapy for photochemists. *Philos trans A Math Phys Sci* 2013;371(1995):20120371
30. Detty MR, Gibson SI,Wagner SJ. Current clinical and preclinical photosensitizer for use in photodynamic therapy. *J Med Chem* 204;47:3897-915
31. Oleink NL, Marris SL,Belinchenko I. The role of a apoptosis in response to photodynamic therapy: what,where,why and how. *Photochem Photobiol Sci* 2002;1:1-21
32. Raab O. Ueber die Wirkung fluoriziender stoffe auf infusorien. *Zeit Biol* 1900;39-524-46
33. Boyle-Vavta S, Labischinski H, Ebert CC, Ehlert K,Daum RS. A spectrum of changes occurs in peptido-glycan composition of glucopeptideintermediate clinical *Staphilococcus aureus* isolates. *Antimicrob Agents Chemother* 2001;45:280-7
34. Wainwright M. Phtodynamic antimicrobial chemotherapy. *J Antimicrob Chemother* 1998;42.13-28
35. Shaman WM,Allen Cm,Van Lier JE. Photodynamic therapeutics: basic principles and clinical applications. *Drug Discov Today* 1999;4-507-517
36. Soukos NS, Wilson M,Burns T, Speight PM. Photodynamic effects of toluidine blue on human oral keratinocytes and fibroblasts and *Streptococcus sanguis* evaluated in vitro. *Lasers Surg Med* 1996;18:253-9
37. Demidova Tn, Hamblin MR. Photodynamic therapy targeted to pathogens. *Int J Immunopathol Pharmacol* 2004;17:245-54
38. Koemerik N, Nakanishi K, MacRobert AJ, Henderson B, Speight P, Wilson M. In vivo killing of *Porphyromonas gingivalis* by toluidine blue-mediated photosensitization in an animal model. *Antimicrob Agents chemother* 2003;47:932-40
39. Seal GJ, spratt D,Bhati M, Gulabilava K. An in vitro comparison of the bactericidal efficacy of lethal photosensitization or sodium hypochlorite irrigation on *Streptococcus intermedius* biofilm in root canals. *Int Endod J* 2002;35:268-74
40. Fonseca Mb, Junio PO,Pallota Rc,Fihlo HF,Denardin OV, Rapoport A,dedivitis RA,veronezi Jf, genovese WJ,Ricardo AL. Photodynamic therapy for root canals infected with *Enterococcus foecalis*. *Photomed Lasers Surg* 2008;26:209-13
41. Garcez AS,Nunez Sc,Hamblin MR, Ribeiro MS. Antimicrobial effects of photodinamic therapy on patients with necrotic pulps and periapical lesion. *J Endod* 2008;34:138-42
42. Pinheiro SL, Schlenka AA,Neto AA,deSouza CP, Rodriguez HM,Ribeiro MC. Photodynamic therapy in en-



- dodontic treatment of deciduous teeth. Lasers Med Sci 2009;24:521-6
43. Socransky SS, Haffajee Ad. The bacterial etiology of destructive periodontal disease current concepts. J Periodontol 1992;63:322-31
44. Bernimoulin JP. Recent concepts in plaque formation. J Clin Periodontol 2003;30(5):7-9
45. Holt Sc, Ebersole Jl. Porphyromonas gingivalis
46. Socransky SS, Haffajee Ad, Cugini MA, Smith C, Kent RL. Microbial complexes in subgingival plaque. J Clin Periodontal 1998;25:134-44
47. Morgandini C, van Steenberghe D, dekeyser C, Quirynen M. One stage full-versus partial-mouth disinfection in the treatment of chronic adult or generalized early-onset periodontitis. I. Long term clinical observations. J Periodontol 1999;70:632-45
48. Quirynen M, Mongardini C, Pauwels M, Bollen CM, Van Eldere J, van Steenberghe D. One stage full-versus partial-mouth disinfection in the treatment of chronic adult or generalized early-onset periodontitis. II. Long term clinical observations. J Periodontol 1999;70:646-56
49. Bollen CM, Quirynen M. Microbiological response to mechanical treatment in combination with adjunctive therapy. A review of the literature. J Periodontal 1996;67:1143-58
50. Sigusch B, Beler M, Klinger G, Pfister W, Glockmann E. A 2-step non-surgical procedure and systemic antibiotics in the treatment of rapidly progressive periodontitis. J Periodontol 2001;72:275-83
51. Bonito AJ, Lux L, Lohr KN. Impact of local adjuncts to scaling and root planning in periodontal disease therapy: a systematic review. J Periodontol 2005;76:1227-36
52. Vergidis PI, Falagas ME. Multidrug-resistant Gram-negative bacterial infections. The emerging threat and potential novel treatment option. Curr Opin Investig Drugs 2008;9(2):176-83
53. Jori G, Fabris C, Soncin M, Ferro S, Coppelotti O, Dei D, Fantetti L, Chiti G, Rancucci G. Photodynamic therapy in the treatment of microbial infections: basic principles and perspective applications. Lasers Surg Med 2006;38:468-81
54. Koemerik N, MacRobert AJ. Photodynamic therapy as an alternative antimicrobial modality for oral infections. J Environ Pathol Toxicol Oncol 2006;25:487-504
55. Wilson M, Dobson J, Sankar S. Sensitization of periodonto-pathogenic bacteria to killing by light from a low-power laser. Oral Microbial Immunol 1993;8:182-7
56. Qin YL, Luan XL, Bi LJ, Sheng YQ, Zhou CN, Zhang ZG. Comparison of toluidine blue-mediated photodynamic therapy and conventional scaling treatment for periodontitis in rats. J Periodont Res 2008;43:162-7
57. Maisch T. Anti-microbial photodynamic therapy: useful in the future? Lasers Med Sci 2007;22:83-91
58. Zanin IC, Lobo MM, Rodrigues LK, Pimenta LA, Hofling JF, Goncalves RB. Photosensitization of in vitro biofilms by toluidine blue or combined with light-emitting diode. Eur J Oral Sci 2006;114:64-9
59. Koemerick N, Nakanishi H, MacRobert AJ, Henderson B, Speight P, Wilson M. In vivo killing of Porphyromonas gingivalis by toluidine blue-mediated photosensitization in an animal model. Antimicrob Agents Chemother 2003;47:932-40
60. Suci P, Kang S, Gmuer R, Douglas T, Young M. Targeted delivery of a photosensitizer to Aggregatibacter actinomycetemcomitans biofilm. Antimicrob Agents Chemother 2010;54:2489-96
61. Polansky R, Haas M, Heschl A, Wimmer G. Clinical effectiveness of photodynamic therapy in the treatment of periodontitis. J Clin Periodontol 2009;36:575-80
62. Chondros P, Nicolaidakis D, Christodoulides N, Roessler R, Gutknecht N, Sculean A. A photodynamic therapy as adjunct non surgical periodontal treatment in patients on periodon-maintenance: a randomized controlled clinical trial. Lasers Med Sci 2009;24:681-8
63. Sigusch B, Engelbrecht M, Voelpel A, Holletschke A, Pfister Schuetze J. Full-mouth antimicrobial photodynamic therapy in fusobacterium nucleatum infected periodontitis patients. Periodontol 2010;81:975-81



64. Ruehling A, Fanghaenel J, Haushmand M, Kuhr A, Meisel P, Schwahn C, Kocher T. Photodynamic Therapy of persistent pockets in maintenance patients – A clinical study. *Clin Oral Investig* 2010;14:637-44
65. Christodoulides N, Nicolaidis D, Chondros P, Becker J, Schwar F, Rossle R, Sculean A. Photodynamic therapy as an adjunct to nonsurgical periodontal treatment: a randomized controlled clinical
66. Mangardini C, Di Tanna GL, Pilloni A. A lightactivated disinfection using a light emitting diode lamp in the red spectrum clinical and microbiological short-term findings on periodontitis patients in maintenance. A randomized controlled split-mouth clinical trial. *Lasers Med Sci* 2014;29:1-8
67. De Olivera RR, Schwartz-Filho HO, Novaes AB, Taba M. Antimicrobial photodynamic therapy in the non-surgical treatment of aggressive periodontitis: a preliminary randomized controlled clinical study. *J Periodontol* 2007;78:965-73
68. Liu J, Corbett EF, Jin L. Combined photodynamic and low-level laser therapies as an adjunct to nonsurgical treatment of chronic periodontitis. *J Periodont Res* 2001;46:89-96
69. Braun A, Dehn C, Krause F, Jepsen S. Short term clinical effects of adjunctive antimicrobial photodynamic therapy in periodontal treatment: a randomized clinical trial. *J Clin Periodontol* 2008;35:877-84
70. Andersen R, Loebel N, Hammond D, Wilson M. Treatment of periodontal disease by photodisinfection compared to scaling and root planning. *J Clin Dent* 2007; 18:34-8
71. Atieh MA. Photodynamic therapy as an adjunctive treatment for chronic periodontitis: a meta-analysis. *Lasers Med Sci* 2010;25:605-13
72. Sgolastra F, Petrucci A, Gatto R, Manzo A. Photodynamic therapy in the treatment of chronic periodontitis: a systematic review and meta-analysis. *Lasers med Sci* 2013;28:669-82
73. Sgolastra F, Petrucci A, Severino M, Graziani F, Gatto R, Monaco A. Adjunctive photodynamic therapy to non-surgical treatment of chronic periodontitis: a systematic review and metaanalysis. *Lasers med Sci* 2013;40:514-26
74. Campos GN, Pimentel SP, Ribeiro FV, Casarin RC, Cirano FR, Saraceni CH, Casati MZ. The adjunctive effect of photodynamic therapy for residual pockets in single-rooted teeth: a randomized controlled clinical trial. *Lasers med Sci* 2013;28:317-24
75. Cappuyins I, Cianca N, Wick P, Giannpoulou C, Mombelli A. Treatment of residual pockets with photodynamic therapy, diode laser, or deep rootscaling. A randomized split-mouth controlled clinical trial. *Lasers Med Sci* 2012;27:979-86
76. Fujita S, Yamaguchi M, Utsunomiya T, Yamamoto H, Kasai K. Low energy laser stimulates tooth movement velocity via expression of RANK and RANKL. *Orthod Craniofac Res* 2008;Aug;11(3):143-55
77. Fujimoto K, Kivosaki T, Mitsui N, Mayahara K, Omasa S, Suzuki N, Shimizu N. Low intensity laser irradiation stimulates mineralization via increased BMPs in MC3T3-E1 cells
78. Rhemrev GE, Timmerman MF, Veldkamp I, Van Winkelhoff AJ, Van der Velden U. Immediate effect of instrumentation on the subgingival microflora in deep inflamed pockets under strict plaque control. *J Periodontol* 2006 Jan;33(1):42-8
79. Heitz-Mayfield L, Tonetti MS, Cortellini P, Lang NP. Microbial colonization patterns predict the outcomes of surgical treatment of intrabony defects. *Clin Periodontol* 2006 Jan;33(1):62-8