

รายการอ้างอิง

- Absi, E.G., Addy, M. and Adams, D. 1987. Dentin hypersensitivity. A study of the patency of dentinal tubules in sensitive and non - sensitive cervical dentine. J. Clin. Periodontol. 14: 280-284.
- Absi, E.G., Addy, M. and Adams, D. 1989. Dentin hypersensitivity the develop and evaluation of replica technique to study sensitive and non-sensitive cervical dentin. J. Clin. Periodontol. 16: 190-195.
- Addy, M. 1990. Etiology and clinical implications of dentine hypersensitivity. Dent. Clin. North Am. 34: 503-514.
- Addy, M., Mustafa, P. and Newcomb, R.G. 1987. Dentine hypersensitivity: the distribution of recession, sensitivity and plaque. J. Dent. 15:242-248.
- Adrian, J.C. 1977. Pulp effects of neodymium laser. A preliminary report. Oral Surg. Oral Med. Oral Pathol. 44: 301-305.
- Adrian, J.C., Bernier, J.L. and Sprague, W.G. 1971. Laser and the dental pulp. J. Am. Dent. Assoc. 83: 113-117.
- Bahn, S.L. 1992. Dental laser: safe or sorry. Compend. Contin. Educ. Dent. 15: 812-824.
- Brannstrom, M. 1966. Sensitivity of dentin. Oral Surg. Oral Med. Oral Pathol. 21: 517-526.

- Brannstrom, M., and Astrom, A. 1972. The hydrodynamics of the dentine: Its possible relationship to dentinal pain. Int. Dent. J. 22: 219-227.
- Brannstrom, M., Linden, L.A., and Johnson, G. 1968. Movement of dentine and pulpal fluid cause by clinical procedured. J. Dent. Res. 47: 679-682.
- Cobb, C.M. 1997. Lasers in periodontics : Use and abuse. Compend. Contin. Educ. Dent. 18: 847-859.
- Cobb, C.M., McCawley, T.K. and Killoy, W.J. 1992. A preliminary study on the effects of the Nd:YAG laser on root surfaces and subgingival microflora in vivo. J. Periodontol. 63: 701-707.
- Cooper, L.F., Myers, M.L. Nelson, D.G and Mowery, A.S. 1988. Shear strength of composite bonded to laser pretreated dentin. J. Prosthet. Dent. 60: 45-49.
- Dederich, D.N. 1993. Laser/tissue interaction: what happens to laser light when it strikes tissue? J. Am. Dent. Assoc. 124: 57-61.
- Fisher, S.E., Frame, J.W., Browne, R.M. and Tranter, R. 1983. A comparative of histological study wound healing following CO₂ laser and conventional surgical excisional of canine buccal mucosa. Arch. Oral. Biol. 28: 287-291.
- Flynn, J., Galloway, R., and Orchardson, R. 1985. The incidence of " Hypersensitive " teeth in the west of Scotland. J. Dent. 13: 230-236.
- Frame, J.W. 1985. Carbon dioxide laser for benign oral lesions. Br. Dent. J. 158: 125-128.

- Frentzen, M. and Koort, H.J. 1990. Laser in dentistry: new possibility with advancing laser technology. Int. dent. J. 40: 323-332.
- Furuoka, M., et al. 1988. Effect of Ga-Al-As laser diode in treatment of hypersensitive dentine. J. Fukuoka Dent. Coll. 15: 42-48.
- Gelskey, S.C., White, J.M. and Pruthi, V.K. 1993. The effectiveness of the Nd : YAG laser in the treatment of dental hypersensitivity. J. Can. Dent. Assoc. 59: 377-378.
- Gershman, J.A., Ruben, J. and Gebart-Eaglemon, J. 1994. Low level laser therapy for dental tooth hypersensitivity. Aus. Dent. J. 39: 353-357.
- Goldman, L., Gray, J.A., Goldman, J., Goldman, B., and Meyer, R. 1965. Effects of laser impacts on teeth. J. Am. Dent. Assoc. 70: 601-606.
- Goldstein, A., White, J.M., and Pick, R.M. 1995. Clinical applications of the Nd:YAG laser. In L.J. Miserendino and M. Pick. (ed.) Laser in dentistry, pp. 199-216. Singapore : Quintessence Publishing Co. Inc.
- Gonzalez, C.D., Zakariasen, K.L., Dederich, D.N. and Pruhs, R.J. 1996. Potential preventive and therapeutic hard tissue applications of CO₂, Nd:YAG and argon lasers in dentistry : A review. ASDC Dent Child. 63: 196-207.
- Grossman, L.I. 1935. The treatment of hypersensitive dentine. J. Am. Dent. Assoc. 22: 592-602.
- Hall, R.R. 1971. The healing of tissue by carbon dioxide laser. Br. J. Surg. 58: 222-225.

- Hoji, T. 1990. Effects of soft laser irradiation on dentinal pain. J. Gifu Dent. Soc. 17: 543-546.
- Holland, G.R. 1994. Morphological features of dentine and pulp related to dentine sensitivity
Archs. oral. Biol. 39(supp.): 3s-11s.
- Hibst, R. and Keller, U. 1989. Experiment studies of the application of the Er : YAG laser on
dental hard substances: I. measurement of ablation rate. Laser Surg. Med. 9: 338-344.
- Ito, H., Hishikata, J., Murai, S. 1993. Effects of Nd : YAG laser radiation on removal of root
surface smear layer after root planing : a scanning electron microscopic study.
J. Periodontol. 64: 547-552.
- Kantola, S. 1972. Laser induced effects on tooth structure 6 and 7. Acta. Odontol. Scand. 30:
463-484.
- Kantola, S., Laine, E. and Tarna, T. 1973. Laser induced effects on tooth structure 6 and 7. Acta.
Odontol. Scand. 31: 369-388.
- Lin, P.P., Rosen, S., Beck, F.M., Matsue M. Horton, J.E. 1992. A comparative effect of the
Nd:YAG laser with root planing on subgingival anaerobes in periodontal pockets.
J. Dent. Res. 71: 299. (abstr.1547.)
- Lobene, R.R. and Fine, S. 1966. Interaction of CO₂ laser radiation with oral hard tissues. J.
Prosthet. Dent. 16: 589-597.
- Lobene, R.R., Bhussry, R. and Fine, S. 1968. Interactions of CO₂ laser with enamel and dentin.
J. Dent. Res. 47: 311-317.

- Markowitz, K and Kim, S. 1990. Hypersensitive teeth : experimental studies of dentinal desensitizing agent. Dent. Clin. North Am. 34: 491-502.
- Maiman, T.H. 1960. Stimulated optical radiation in ruby. Nature 187: 493-494.
- McCann, D. 1991. Companies continue laser studies. Am. Dent. Assoc. News 23: 8-10.
- Morlock, B.J., Pippin, D.J., Cobb, C.M., Killoy, W.J. and Rapley, J.W. 1992. The effect of Nd : YAG laser exposure on root surfaces when use as an adjunct to root planing : an *in vitro* study. J. Periodontol. 63: 637-641.
- Melcer, J., Chaumett, F., Melcer, F. and Dejardin, J. 1984. Treatment of dental decay by CO2 beam: preliminary results. Laser. Surg. Med. 4: 311-321.
- Melcer, J., Chaumett, F and Melcer, F. 1987. Dental pulp exposed to laser beam. Laser Surg. Med. 7: 347-352.
- Midda, M. 1992. The use of laser in periodontology. Curr. Opin. Dent. 2: 104-108.
- Midda, M., and Renton-Harper, P. 1991. Laser in dentistry. Br. Dent. J. 170: 343 -346.
- Miller, M. and Truhe, T. 1993. Laser in dentistry : an overview. J. Am. Dent. Assoc. 124: 33-35
- Miserendino, L.J. 1995. The history and development of laser dentistry. In L.J. Miserendino and M. Pick. (ed.) Laser in dentistry, pp. 17-25. Singapore : Quintessence PublishingCo. Inc.
- Mousques, T. Listgaten, M.A., Phillips, R.W. 1980. Effects of scaling and root planing on the composition of the human subgingival microbial flora. J. Periodontal. Res. 15: 144-151.

- Myers, T.D. 1991. Laser in dentistry. J. Am. Dent. Assoc. 122: 47-50.
- Nelson, D.G.A., Shariati, M. Glana, D. 1986. Effect of pulps low energy infrared laser on artificial caries-like lesion formation. Caries Res. 20: 289-299.
- Neison, J.S., Orenstein, A., Liaw, L.H. and Bern, M.W. 1989. Mid-infrared erbium:YAG laser ablation of bone: The effect of laser osteotomy on bone healing. Laser Surg. Med. 9: 362-374.
- Pashley, D.H. 1990. Mechanism of dentin sensitivity. Dent. Clin. North. Am. 34: 449-473.
- Pecaro, B.C. and Garehime, W.J. 1983. The CO₂ laser in oral and maxillofacial surgery. J. Oral Maxillofac. Surg. 41: 725-728.
- Pick, R.M. 1993. Using laser in clinical dental practice. J. Am. Dent. Assoc. 124: 37-47.
- Pick, R.M. and Colvard, M.D. 1993. Current status of lasers in soft tissue dental surgery. J. Periodontol. 64: 589-602.
- Pick, R.M. and Powell, G.L. 1993. Laser in dentistry. Dent. Clin. North Am. 37: 281-296.
- Pick, R.M., Pecaro, B.C. and Silberman, C.J. 1985. The laser gingivectomy. J. Periodontol. 56: 492-494.
- Renton-Harper, P. and Midda, M. 1992. Nd : YAG laser treatment of dentinal hypersensitivity. Br. Dent. J. 172: 13-16.
- Renton-Harper, P., Midda, M. and Manton, S. 1992. Laser treatment of dentine hypersensitivity. J. Dent. Res. 71:606.

- Rossmann, J.A. and Cobb, C.M. 1995. Laser in periodontal therapy. Periodontol. 2000
9: 150-164.
- Ryden, H., Bjelkhagen, H. and Soder, P.O. 1975. The use of laser beams for measuring tooth mobility and tooth movements. J. Periodontol. 46: 421-425.
- Ryden, H., Bjelkhagen, H. and Soder, P.O. 1995. Intrасulcular laser doppler readings before and after root planing. J. Clin. Periodontol. 22: 817-823.
- Scott, D. and Tempel, T.T. 1965. Neurophysiological response of single receptor units tooth of the cat. J. Dent. Res. 44: 20-27.
- Snitzer, E. 1961. Optical maser action of Nd+3 in Ba crow glass. Phys. Rev. Letter 7: 444.
- Spencer, P., Trylovich, D.J., Cobb, C.M. 1992. Photoacoustic FTIR spectroscopy of lased cementum surfaces. J. Periodontol. 63: 633-636.
- Spencer, P., Cobb, C.M., McCollum, M. H. and Wieliczka, D.M. 1996. The effects of CO₂ laser and Nd:YAG with and without water/air surface cooling on tooth root structure : correlation between FTIR spectroscopy and histology. J. Periodontol. Res. 31: 453-462.
- Stabholz, A. et al. 1993. Sealing of human dentinal tubules by Xecl 308 - nm eximer laser. J. Endod. 6: 267-271.
- Stern, R.H. and Sognaes, R.F. 1964. Laser beam on dental hard tissues. J. Dent. Res. 43: 873. (abstr. 307)

- Stern, R.H., Vahl J. and Sognaes, R.F. 1972. Laser enamel : ultra structural observations of pulsed carbon dioxide laser effects. J. Dent. Res. 51: 455-460.
- Stewart, L., Powell, G.L., and Wright,S. 1985. Hydroxyapatite attached by laser : a potential sealant for pits and fissures. Oper. Dent. 10: 2-5.
- Takahashi, K., et al. 1987. Clinical evaluation of Ga- Al - As semiconductor laser diode (UNI - LASER) irradiation in treatment of solitary aphtha , erosion and hypersensitive dentin. Shikwa Gakuho 87: 295-303.
- Takeda, Y. 1988. Irradiation effect of low- energy laser on alveolar bone after tooth extraction. Int. J. Oral. Maxillofac. Surg. 17: 388-391.
- Taylor, R., Shklar, G. and Roeber, F. 1965. The effects of laser radiation on teeth, dental pulp and oral mucosa of animals. Oral Surg. Oral Med. Oral Pathol. 19: 786-795.
- Thomas, D. Rapley, J.W. Cobb, C.M., Spencer, P., and Killoy, W. J. 1994. Effects of the Nd: YAG laser and combined treatments on in vitro fibroblast attachment to the root surfaces. J Clin. Periodontol. 21: 38-44.
- Trylovich, D.J., Cobb, C.M., Pippin, D.J., Spencer, P. and Killoy, W. 1992. The effects of Nd : YAG laser on *in vitro* fibroblast attachment to endotoxin- treated root surfaces. J. Periodontol. 63: 626-632.
- Wakabayashi,H. and Matsumoto, K. 1988. Treatment of dentine hypersensitivity by Ga-Al-As laser irradiation. J. Dent. Res. 67: 182. (abstr. 554)

- Wallace, J.A. and Bisada, N.F. 1990. Pulpal and root sensitivity related to periodontol therapy. Oral Surg. Oral Med. Oral Pathol. 69: 743-747.
- Wilder-Smith, P. 1988. The soft laser: Tool or popular placebo. Oral Surg. Oral Med. Oral Pathol. 66: 654-658.
- Wilder-Smith, P., Arrastia, A.A., Schell, M.J., Liaw, L. Grill, G. and Berns, M.W. 1995. Effect of Nd:YAG laser irradiation and root planing on root surface : structural and thermal effects. J. Periodontol. 66: 1032-1039.
- White, J.M., Fagan, M.C. and Goodis, H.E. 1994. Intrapulpal temperatures during pulsed Nd:YAG laser treatment of dentin, in vitro. J. Periodontol. 65: 225-259.
- Yamagushi, M., et al. 1990. Clinical study on the treatment of hypersensitive dentin by GaAlAs laser diode using the double blind test. Aichi-Gakuin J. Dent. SCI. 28: 703-707.
- Yamamoto, H., and Ooya, K. 1974. Potential of Yttrium aluminium garnet laser in caries prevention. J. Oral Pathol. Oral Med. 3: 7-15.
- Yamamoto, H., and Sato, K. 1980. Prevention of dental caries by acoustic optically Q-switched Nd:YAG laser irradiation. J. Dent. Res. 59: 137.
- Yoshiyama, M., Noire, Y., Azoic, K., Uchida, A., Ishikawa, Y. and Ishida, H. 1990. Transmission electron microscopic characterization of hypersensitive human radicular dentin. J. Dent. Res. 69: 1293-1297.

Yoshiyama, M., Masada, A., Uchida, A. and Ishida, H. 1989. Scanning electron microscopic

characterization of sensitive vs insensitive human radicular dentin. J. Dent. Res.

68: 1498-1502.

Zakariasen, K.L. and Dederich, D.N. 1991. Dental laser and science. J. Can. Dent. Assoc.

57: 570-573.

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