

## Literatur

### **Minimalinvasive Dentinadhäsion im Alter Warum Substanzabtrag mit Er:YAG, wenn es ohne auch geht?**

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1. Nakabayashi N, Kojima K, Masuhara E. The promotion of adhesion by the infiltration of monomers into tooth substrates. *J Biomed Mater Res.* 1982;16(3):265-273.
2. Fusuyama T. New Concepts in Operative Dentistry. Quintessence Publishing Co., Inc., Chicago, 1980.
3. Kanca J. Improved bond strength through acid etching of dentin and bonding to wet dentin surfaces. *J Am Dent Assoc.* 1996;123:35-43.
4. Kanca J. Wet bonding: effect of drying time and distance. *Am J Dent.* 1996;9(6):273-276.
5. Pashley, David H. "The evolution of dentin bonding from no-etch to total-etch to self-etch." *Adhes Technol Sol* Jan 2003, 1 5 (2002).
6. Watanabe I, Nakabayashi N, Pashley DH. Bonding to ground dentin by a phenyl-P self-etching primer. *J Dent Res.* 1994;73(6):1212-1220.
7. Tay FR, Carvalho R, Sano H, Pashley DH. Effect of smear layers on the bonding of a self-etching primer to dentin. *J Adhes Dent* 2000; 2: 99-116
8. Bouillaguet S. Bonding resin based materials to the dentin-pulp complex. Thesis, University of Genève, Switzerland, 2002, p. 46
9. Tay FR, Pashley DH. Resin bonding to cervical sclerotic dentin: A review. *J of Dentistry* 2004,32 173-196
10. Tjäderhane L, Nascimento FD, Breschi L, Mazzoni A, Tersario JLS, Geraldeli S, Tezvergil-Mutluay A, Carrilho MR, Carvalho RM, Tay FR, Pashley DH. Optimizing dentin bond durability: Control of collagen degradation by matrix metalloproteinases and cysteine cathepsins. *J Dent Mat* 29(2013), 116-135
11. Seka WD, Featherstone JD, Fried D, Visuri SR, Walsh JT. Laser ablation of dental hard tissue: from explosive ablation to plasma-mediated ablation. *Proc. SPIE Vol.* 2672, 144-158, Lasers in Dentistry II, 1996.
12. Fried D, Zuerlein M, Featherstone JDB, Seka W, Duhn C, McCormack SM. IR laser ablation of dental enamel: mechanistic dependence on the primary absorber. *Applied Surface Science Volumes* 1998;127-129:852-856.
13. Apel C, Meister J, Ioana RS, Franzen R, Hering P, Gutknecht N. The ablation threshold of Er:YAG and Er:YSGG laser irradiation in dental enamel. *Lasers Med Sci* 2002; 17(4):246-252
14. Gisler G, Gutknecht N. The influence of the energie density and other clinical parameters on bond strength of Er:YAG conditioned dentin compared to conventional dentin adhesion. *Lasers Med Sci* (2014) 29; 77-84
15. Bertrand MF, Semez G, Leforestier E, Muller-Bolla M, Nammour S, Rocca JP. Er:YAG laser cavity preparation and composite resin bonding with a single-component adhesive system: relationship between shear bond strength and microleakage. *Lasers Surg Med.* 2006;38(6):615-623.
16. Ceballo L, Toledano M, Osorio R, Tay FR, Marshall GW. Bonding to Er-YAG-laser-treated dentin. *J Dent Res.* 2002;81(2):119-122.
17. Gurgan S, Kiremitci A, Cakir FY, Gorucu J, Alpaslan T, Yazici E, Gutknecht N. Shear bond strength of composite bonded to Er,Cr:YSGG laser-prepared dentin. *Photomed Laser Surg.* 2008;26(5):495-500.
18. Martínez-Insua A, Da Silva Dominguez L, Rivera FG, Santana-Penín UA. Differences in bonding to acid-etched or Er:YAG-laser-treated enamel and dentin surfaces. *J Prosthet Dent.* 2000;84(3):280-288.

19. De Munck J, Van Meerbeek B, Yudhira R, Lambrechts P, Vanherle G. Micro-tensile bond strength of two adhesives to Erbium:YAG-lased vs. bur-cut enamel and dentin. *Eur J Oral Sci.* 2002;110(4):322-329.
20. Celik EU, Ergüçü Z, Türkün LS, Türkün M. Shear bond strength of different adhesives to Er:YAG laser-prepared dentin. *J Adhes Dent.* 2006;8(5):319-325.
21. Brulat N, Rocca JP, Leforestier E, Fiorucci G, Nammour S, Bertrand MF. Shear bond strength of self-etching adhesive systems to Er:YAG-laser-prepared dentin. *Lasers Med Sci.* 2009;24(1):53-57.
22. Visuri SR, Gilbert JL, Wrigth DD, Wigdor HA, Walsh JT, Jr (1996). Shear Strength of Composite Bonded to Er:YAG Laser-prepared Dentin: *J Dent Res* 75:599-605.
23. Armengol V, Jean A, Rohanizadeh R, Hamel H. Scanning electron microscopic analysis of diseased and healthy dental hard tissues after Er:YAG laser irradiation: in vitro study. *J Endod.* 1999;25(8):543-546.
24. Franzen R. Principles of Medical and Dental Lasers. Lulu.com Publishing, Raleigh, N.C., USA, 2011, ISBN 978-1-4709-0592-7:p.111-115
25. Rizcalla N, Bader C, Bortolotto T, Krejci I. Improving the efficiency of an Er:YAG laser on enamel and dentin. *Quintessence international:* 2012;43 (2):153-160.
26. Gutknecht, N ed (2007). Proceedings of the 1st International Workshop of Evidence Based Dentistry on Lasers in Dentistry: Workshop in Vaals, the Netherlands; Feb. 2006. Quintessenz Verlags-GmbH, Berlin
27. Gutknecht N. *Laser Zahnheilkunde* 2007; 2/07:75-83
28. Yung FY, Gutknecht N, Franzen R, Fischer H. Shear strength of composite bonded to Er:YAG laser-prepared enamel: an in vitro comparative study. *Lasers Med Sci.* 2013 May; 28(3):879-89.
29. Eberhard J, Eisenbeiss AK, Braun A, Hedderich J, Jepsen S. Evaluation of selective caries removal by a fluorescence feedback-controlled Er:YAG Laser in vitro. *Caries Res* 2005; 39(6):496-504
30. Lubart R, Kesler G, Lavie R, Friedmann H. Er:YAG laser promotes gingival wound repair by photo-dissociating water molecules. *Photomed Laser Surg* 2005; 23(4):369-372
31. Takamori K. A histopathological and immunohistochemical study of dental pulp and pulpal nerve fibers in rats after the cavity preparation using Er:YAG laser. *J Endod* 2000; 26(2):95-99.
32. Philipp H. Über die Struktur von Zahnstein. *Hoppe-Seyfer's Zeitschrift* 1935; 233(5-6):209-214.