

Ausgabe: Prophylaxe Journal 2/2016

Thema: Mikroinvasivität durch Kariesinfiltration

Autoren: Dr. Silke Hornstein, Prof. Dr. Peter Hahner, M. Sc., Prof. Dr. Georg Gaßmann

Literatur

Attin R, Stawarczyk B, Keçik D, Knösel M, Wiechmann D, Attin T. Shear bond strength of brackets to demineralized enamel after different pretreatment methods. *Anlge Orthod.* 2012; Jan;82(1):56-61.

Baelum V, Fejerskov O. How big is the problem? Epidemiological features of dental caries. In Fejerskov O, Nyvad B, Kidd E, editors. *Dental caries: the disease and its clinical management.* John Wiley & Sons, Ltd. 2015.

Bratthall D, Hänsel-Petersson G, Sundberg H. Reasons for the caries decline: what do the experts believe? *J Oral Sci.* 1996;104:416–25.

Dorri M, Dunne SM, Walsh T, Schwendicke F. Micro-invasive interventions for managing proximal dental decay in primary and permanent teeth. *Cochrane Database Syst Rev.* 2015 Nov 5;11:CD010431. doi: 10.1002/14651858.CD010431.pub2.

Ekstrand KR, Bakhshandeh A, Martignon S. Treatment of proximal superficial caries lesions on primary molar teeth with resin infiltration and fluoride varnish versus fluoride varnish only: efficacy after 1 year. *Caries Res.* 2010; 44(1): 41-6.

Fejerskov O. Pathology of dental caries. In Fejerskov O, Nyvad B, Kidd E, editors. *Dental caries: the disease and its clinical management.* John Wiley & Sons, Ltd. 2015.

Gorelick L, Geiger AM, Gwinnett AJ. Incidence of white spot formation after bonding and banding. *Am J Orthod.* 1982;81:93–8.

Gugnani N, Pandit IK, Gupta M, Josan R. Caries infiltration of noncavitated white spot lesions: A novel approach for immediate esthetic improvement. *Contemp Clin Dent.* 2012; Sep;3(Suppl 2): 199-202.

Hammad SM, El Banna M, El Zayat I, Mohsen MA. Effect of resin infiltration on white spot lesions after debonding orthodontic brackets. *Am J Dent.* 2012; Febr, 25(1):3-8.

Kantovitz KR, Pascon FM, Nobre-dos-Santos M, Puppim-Rontani RM. Review of the effects of infiltrants and sealers on non-cavitated enamel lesions. *Oral Health Prev Dent.* 2010; 8(3):295-305.

Kielbassa AM, Muller J, Gernhardt CR. Closing the gap between oral hygiene and minimally invasive dentistry: a review on the resin infiltration technique of incipient (proximal) enamel lesions. *Quintessence Int.* 2009 Sep;40(8):663-81.

Kidd EA, Fejerskov O. What constitutes dental caries? Histopathology of carious enamel and dentin related to the action of cariogenic biofilms. *J Dent Res.* 2004;83 Spec No C:C35-8.

Kim S, Kim EY, Jeong TS, Kim JW. The evaluation of resin infiltration for masking labial enamel white spot lesions. *Int J Paediatr. Dent.* 2011; Jul;21(4):241-8.

Mejare I, Källestal C, Stenlund H, Johansson H. Caries development from 11 to 22 years of age: a prospective radiographic study. Prevalence and distribution. *Caries Res.* 1998; 32(1): 10-6.

Mejare I, Stenlund H, Zelezny-Holmlund C. Caries incidence and lesions progression from adolescence to young adulthood: a prospective 15-year cohort study in Sweden. *Caries Res.* 2004; 38(2): 130-41.

Meyer-Lueckel H, Bitter K, Paris S. Randomized controlled clinical trial on proximal caries infiltration: three-year follow-up. *Caries Res.* 2012;46(6): 544-8.

Meyer-Lueckel H, Fejerskov O, Paris S. Novel treatment possibilities for proximal caries. *Schweiz Monatsschr Zahnmed* 2009; 119(5): 454-61.

Meyer-Lueckel H, Paris S. Improved resin infiltration of natural caries lesions. *J Dent Res.* 2008 Dec;87(12):1112-6.

Micheelis W, Schiffner U (Hrsg.). Vierte Deutsche Mundgesundheitsstudie (DMS IV). Deutscher Zahnärzte Verlag 2006.

Müller J, Meyer-Lueckel H, Paris S, Hopfenmüller W, Kielbassa AM. Inhibition of lesion progression by the penetration of resins in vitro: influence of the application procedure. *Oper Dent.* 2006 May-Jun;31(3):338-45.

Nainar SM. The evidence is lacking to support resin infiltration for primary molar proximal lesions. *Pediatr Dent.* 2014 May-Jun;36(3):201.

Neuhaus KW, Graf M, Lussi A, Katsaros C. Late infiltration of post-orthodontic white spot lesions. *J Orofac Orthop.* 2010 Nov;71(6):442-7.

Ogaard B, Rølla G, Arends J. Orthodontic appliances and enamel demineralization. Part 1. Lesion development. *Am J Orthod Dentofacial Orthop.* 1988;94:68-73.

Ogodescu A, Ogodescu E, Talpos S, Zetu I. Resin infiltration of white spot lesions during the fixed orthodontic appliance therapy. *Rev Med Chir Soc Med Nat Iasi* 2011; Oct-Dec;115(4):1251-7.

Paris S, Dörfer CE, Meyer-Lueckel H. Surface conditioning of natural enamel caries lesions in deciduous teeth in preparation for resin infiltration. *J Dent.* 2010a Jan;38(1):65-71.

Paris S, Hopfenmüller W, Meyer-Lueckel H. Resin infiltration of caries lesions: an efficacy randomized trial. *J Dent Res.* 2010b; Aug;89(8): 823-6.

Paris S, Meyer-Lueckel H. Inhibition of caries progression by resin infiltration in situ. *Caries Res* 2010; 44(1): 47-54.

Paris S, Meyer-Lueckel H. Masking of labial enamel white spots lesions by resin infiltration- a clinical report. *Quintessence int.* 2009; Oct,40(9):713-8.

Paris S, Meyer-Lueckel H, Kielbassa AM. Resin infiltration of natural caries lesions. *J Dent Res.* 2007 Jul;86(7):662-6.

Paris S, Schwendicke F, Seddig S, Müller WD, Dörfer D, Meyer-Lueckel H. Micro-hardness and mineral loss of enamel lesions after infiltration with various resins: influence of infiltrant composition and applications frequency in vitro. *J Dent* 2013; 41(6): 543-8.

Rocha Gomes Torres C, Borges AB, Torres LM, Gomes IS, de Oliveira RS. Effect of caries infiltration technique and fluoride therapy on the colour masking of white spot lesions. *J Dent*. 2011 Mar;39(3):202-7.

Subramaniam P, Girish Babu KL, Lakhotia D. Evaluation of penetration depth of a commercially available resin infiltrate into artificially created enamel lesions: An in vitro study. *J Conserv Dent*. 2014 Mar;17(2):146-9.

Sundararaj D, Venkatachalapathy S, Tandon A, Pereira A. Critical evaluation of incidence and prevalence of white spot lesions during fixed orthodontic appliance treatment: A meta-analysis. *J Int Soc Prev Community Dent*. 2015 Nov-Dec;5(6):433-9.

Tellez M, Gomez J, Kaur S, Oretty IA, Ellwood R, Isail AI. Non-surgical management methods of noncavitated carious lesions. *Community dent Oral Epidemiol*. 2013; Feb;41(1):79-96.

Tinanoff N, Coll JA, Dhar V, Maas WR, Chibber S. Evidence-based update of pediatric dental restorative procedures: preventive strategies. *J Clin Pediatr Dent*. 2015; Spring;39(3):193-7.

Tufekci E, Dixon JS, Gunsolley JC, Lindauer SJ. Prevalence of white spot lesions during orthodontic treatment with fixed appliances. *Angle Orthod*. 2011; Mar;81(2):206-10.

Whelton H. Overview of the impact of changing global patterns of dental caries experience on caries clinical trials. *J Dent Res*. 2004;83(Spec No C):29-34.