Kariesdiagnostik und Risikoeinschätzung

Die richtige Diagnose ist der Schlüssel

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Literaturangabe

[1] Bin-Shuwaish, M., Dennison, J. B., Yaman, P. & Neiva, G. Estimation of Clinical Axial Extension of Class II Caries Lesions with Ultraspeed and Digital Radiographs. An In-vivo Study. Operative Dentistry 33, 613–621 (2008).

[2] Braga, M. M., de Benedetto, M. S., Imparato, J. C. P. & Mendes, F. M. New methodology to assess activity status of occlusal caries in primary teeth using laser fluorescence device. J. Biomed. Opt. 15, 47005 (2010).

[3] Calcivis Caries Activity and Demineralisation Imaging System). http://calcivis.com/calcivis-technology . [last access 22.09.2020]

[4] DAJ (Deutschen Arbeitsgemeinschaft Jugendzahnpflege e.V.). Grundsätze für Maßnahmen zur Förderung der Mundgesundheit. Available at http://www.daj.de/fileadmin/user_upload/PDF_Downloads/grundsaetze.pdf (2000).

[5] DAJ Deutschen Arbeitsgemeinschaft Jugendzahnpflege e.V.). Epidemiologische Begleituntersuchungen zur Gruppenprophylaxe 2009. 1st ed. (Bonn, 2010).

[6] de Silva AM, Hegde S, Akudo Nwagbara B, Calache H, Gussy MG, Nasser M, Morrice HR, Riggs E, Leong PM, Meyenn LK, Yousefi-Nooraie R. Community-based population-level interventions for promoting child oral health. Cochrane Database Syst Rev. 2016;15;9:CD009837.

[7] Heinrich, R., Künzel, W. & Tawfiq, H. Approximale Kariesdiagnostik – Vergleich klinischer, faseroptischer und röntgenographischer Diagnostikverfahren. Dtsch Zahn Mund Kieferheilkd, 535–542 (1991).

[8] ICCMS International Caries Classification and Management System (2020) https://www.iccms-web.com/ [last access 22.09.2020]

[9] IDZ (Institut Deutscher Zahnärzte) Fünfte Deutsche Mundgesundheitsstudie - (DMS V) (Deutscher Zahnärzte Verlag DÄV, Köln, 2016).

[10] Innes NP, Frencken JE, Bjørndal L, Maltz M, Manton DJ, Ricketts D, Van Landuyt K, Banerjee A, Campus G, Doméjean S, Fontana M, Leal S, Lo E, Machiulskiene V, Schulte A, Splieth C, Zandona A, Schwendicke F. Managing Carious Lesions: Consensus Recommendations on Terminology. Adv Dent Res. 2016 May;28(2):49-57. doi: 10.1177/0022034516639276.

[11] Jablonski-Momeni A, Liebegall F, Stoll R, Heinzel-Gutenbrunner M, Pieper K. Performance of a new fluorescence camera for detection of occlusal caries in vitro. Lasers Med Sci 2013; 28(1):101–9.

[12] Jablonski-Momeni A, Moos J. Reproducibility of Calcivis Activity Imaging System Measurements in Primary and Permanent Teeth. 64th Congress of the European Organisation for Caries Research. July 5–8, 2017, Oslo. Norway. Abstract 112. Caries Res 2017. http://www.karger.com/Article/Pdf/471777

[13] Jablonski-Momeni, A., Moos, J., Sakhaei Manesh, V. & Stoll, R. Diagnostic Accuracy of a Bioluminescence System for the Assessment of Caries Activity on Occlusal Surfaces. Caries Res. 52, 279–287 (2018).

[14] Kidd, E. & Fejerskov, O. Changing concepts in cariology: forty years on. Dental update 40, 277-8, 280-2, 285-6 (2013).

[15] Looe, H. K. et al. Radiation exposure to children in intraoral dental radiology. Radiation Protection Dosimetry 121, 461–465 (2006).

[16] Kühnisch J, Ifland S, Tranaeus S, Angmar-Månsson B, Hickel R, Stösser L et al. Establishing quantitative light-induced fluorescence cut-offs for the detection of occlusal dentine lesions. European journal of oral sciences 2006; 114(6):483–8.

[17] Lussi A, Hibst R, Paulus R. DIAGNOdent: an optical method for caries detection. Journal of dental research 2004; 83 Spec No C:C80-3.

[18] Mourad MS, Schmoeckel J, Splieth CH. Frühkindliche Karies: Folgen und potenzielle Spätfolgen. Zahnärzteblatt Baden-Württemberg. 2017;(11): 32-36.

[19] Nyvad B, Machiulskiene V, Baelum, V. Construct and predictive validity of clinical caries diagnostic criteria assessing lesion activity. J Dent Res. 2003; 82: 117.

[20] Nyvad, B., Machiulskiene, V. & Baelum, V. Reliability of a new caries diagnostic system differentiating between active and inactive caries lesions. Caries research 1999;33, 252–260.

[21] Santamaria RM, Innes NP, Machiulskiene V, Schmoeckel J, Alkilzy M, Splieth CH. Alternative Caries Management Options for Primary Molars: 2.5-Year Outcomes of a Randomised Clinical Trial. Caries Research. 2017;51:605-614.

[22] Schmoeckel J, Santamaría RM, Splieth CH. Long-term caries development in schoolchildren and the role of educational status. Quintessence Int. 2015;46(5):409-15. doi:10.3290/j.qi.a33534.

[23] Schwendicke F, Frencken JE, Bjørndal L, Maltz M, Manton DJ, Ricketts D, Van Landuyt K, Banerjee A, Campus G, Doméjean S, Fontana M, Leal S, Lo E, Machiulskiene V, Schulte A, Splieth C, Zandona AF, Innes NP. Managing Carious Lesions: Consensus Recommendations on Carious Tissue Removal. Adv Dent Res. 2016 May;28(2):58-67. doi: 10.1177/0022034516639271.

[24] Team DAJ: Epidemiologische Begleituntersuchungen zur Gruppenprophylaxe 2016. Bonn, Deutsche Arb.-Gemeinsch. f. Jugendzahnpflege, 2017.