Literatur ZMK 11-12 2026

ZMK 2026: (42) (11-12) S. 563

Prof. Dr. Claus-Peter Ernst

Editorial: Süßer (könnten) die Kassen nie klingeln

[1] https://www.bundesregierung.de/breg-de/aktuelles/zuckergetraenkesteuer-2457018

[2] https://www.ncbi.nlm.nih.gov/books/NBK285537/pdf/Bookshelf_NBK285537.pdf

[3] https://www.instituteforgovernment.org.uk/explainer/sugar-tax

[4] https://www.legislation.gov.uk/uksi/2018/41/made/data.pdf

[5] https://www.bild.de/politik/inland/bild-exklusiv-union-blockt-zuckersteuer-kommt-vorerst-nicht-6aeb235b1a1d431301d46b3e

[6] https://www.agrarheute.com/politik/fuer-zuckersteuer-fuer-landwirte-bedeutet-643740

[7] https://www.gov.uk/government/publications/soft-drinks-industry-levy-review/hmt-hmrc-soft-drinks-industry-levy-review

[8] Rogers NT, Jones HJ, Cummins S, et al. Estimated impact of the UK soft drinks industry levy on childhood hospital admissions for carious tooth extractions: interrupted time series analysis. *BMJ Nutrition, Prevention & Health*. 2023;6(2):243–251. doi:10.1136/bmjnph-2023-000714

ZMK 2026: (42) (11-12) S. 566

PD Dr. Miriam Cyris, Prof. Dr. Christian Graetz

Parodontitistherapie auf lange Sicht

[1] Axelsson P, Nystrom B, Lindhe J. The long-term effect of a plaque control program on tooth mortality, caries and periodontal disease in adults. Results after 30 years of maintenance. *J Clin Periodontol* 2004;31:749-757.

[2] Graetz C, Baumer A, Eickholz P, et al. Long-term tooth retention in periodontitis patients in four German university centres. *J Dent* 2020;94:103307.

[3] Graetz C, Plaumann A, Schlattmann P, et al. Long-term tooth retention in chronic periodontitis - results after 18 years of a conservative periodontal treatment regimen in a university setting. *J Clin Periodontol* 2017;44:169-177.

[4] Cyris M, Bartels P, Kahl M, et al. Tooth Loss During Supportive Periodontal Care (SPC): A Three Decades Retrospective Study in a University Setting. *J Clin Periodontol* 2026;53:1481-1490.

[5] Cicek Öztürk B CM, Sälzer S, Dörfer CE, Sutor S, Graetz C. Retrospektive Kohortenanalyse – Versorgung in einer Universitätszahnklinik vor/ nach PAR-Richtlinie 2021. *DGParo Jahrestagung, Heidelberg* 2026:Poster 6.
[6] Frank L CM, Sälzer S, Graetz C. Parodontale Versorgung vor und nach Einführung der PAR-Richtlinie 2021 – Eine retrospektive Kohortenanalyse aus einer Einbehandlerpraxis im ländlichen Raum. *Parodontologie* 2026:akzeptiert, 17.04.2026.
[7] Papapanou PN, Sanz M, Buduneli N, et al. Periodontitis: Consensus report of workgroup 2 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol* 2018;89 Suppl 1:S173-S182.
[8] Tonetti MS, Greenwell H, Kornman KS. Staging and grading of periodontitis: Framework and proposal of a new classification and case definition. *J Clin Periodontol* 2018;45 Suppl 20:S149-S161.
[9] Pretzl B, El Sayed S, Weber D, Eickholz P, Baumer A. Tooth loss in periodontally compromised patients: Results 20 years after active periodontal therapy. *J Clin Periodontol* 2018;45:1356-1364.
[10] Hasan F, Magan-Fernandez A, Akcali A, Sun C, Donos N, Nibali L. Tooth loss during supportive periodontal care: A prospective study. *J Clin Periodontol* 2024;51:583-595.
[11] Fardal O, Skau I, Grytten J. A 30-year retrospective cohort outcome study of periodontal treatment of stages III and IV patients in a private practice. *J Clin Periodontol* 2025;52:102-112.
[12] Matuliene G, Pjetursson BE, Salvi GE, et al. Influence of residual pockets on progression of periodontitis and tooth loss: results after 11 years of maintenance. *J Clin Periodontol* 2008;35:685-695.
[13] Rieger S, Walker H, Mittelhamm F, et al. Tooth loss during long-term periodontal therapy in specialized practices - a retrospective cohort study from a periodontal practice-based research network (Perio-PBRN). *Clin Oral Investig* 2024;28:607.
[14] Salvi GE, Mischler DC, Schmidlin K, et al. Risk factors associated with the longevity of multi-rooted teeth. Long-term outcomes after active and supportive periodontal therapy. *J Clin Periodontol* 2014;41:701-707.
[15] Helal O, Gostemeyer G, Krois J, Fawzy El Sayed K, Graetz C, Schwendicke F. Predictors for tooth loss in periodontitis patients: Systematic review and meta-analysis. *J Clin Periodontol* 2019;46:699-712.
[16] Schwendicke F, Graetz C, Stolpe M, Dorfer CE. Retaining or replacing molars with furcation involvement: a cost-effectiveness comparison of different strategies. *J Clin Periodontol* 2014;41:1090-1097.

[17] Bundesausschuss G. Richtlinie des Gemeinsamen Bundesausschusses zur systematischen Behandlung von Parodontitis und anderer Parodontalerkrankungen. *PAR-Richtlinie* 2020.
[18] Sanz M, Herrera D, Kebschull M, et al. Treatment of stage I-III periodontitis-The EFP S3 level clinical practice guideline. *J Clin Periodontol* 2020;47 Suppl 22:4-60.
[19] Ramseier CA, Woelber JP, Kitzmann J, Detzen L, Carra MC, Bouchard P. Impact of risk factor control interventions for smoking cessation and promotion of healthy lifestyles in patients with periodontitis: A systematic review. *J Clin Periodontol* 2020;47 Suppl 22:90-106.

ZMK 2026; 42 (11-12) S. 572-580

Dr. Nicola Meißner, Dr. Dinah Fräßle-Fuchs

Kommunikation und Therapieentscheid in der kinderzahnärztlichen Praxis

[1] American Academy of Pediatric Dentistry. Behavior guidance for the pediatric dental patient. *The Reference Manual of Pediatric Dentistry.* Chicago, IL: American Academy of Pediatric Dentistry; 2025: 379–399. Latest Revision 2024
[2] American Academy of Pediatric Dentistry. Informed consent. The Reference Manual of Pediatric Dentistry. Chicago, IL: American Academy of Pediatric Dentistry; 2025: 580–584. Latest Revision 2023.
[3] American Dental Association. Guidelines for the Use of Sedation and General Anesthesia by Dentists. Chicago: American Dental Association; 2025.
[4] American Society of Anesthesiologists. Statement on ASA Physical Status Classification System. Schaumburg, IL: American Society of Anesthesiologists.
[5] American Society of Dentist Anesthesiologists. American Society of Dentist Anesthesiologists: Parameters of Care. Anesth Prog. 2018; 65 (3): 197–203. doi:10.2344/anpr-65-03-19
[6] Ashley P, Anand P, Andersson K. Best clinical practice guidance for conscious sedation of children undergoing dental treatment: an EAPD policy document. Eur Arch Paediatr Dent. 2021; 22 (6): 989–1002. doi:10.1007/s40368-021-00660-z
[7] Beck G, Becke K, Biermann E et al. Mindestanforderungen an den anästhesiologischen Arbeitsplatz. Empfehlungen der Deutschen Gesellschaft für Anästhesiologie und Intensivmedizin e. V. und des Berufsverbandes Deutscher Anästhesisten e. V. Anästh Intensivmed. 2013; 54: 39–42.
[8] Dhar V, Gosnell E, Jayaraman J, et al. Nonpharmacological behavior guidance for the

pediatric dental patient. Pediatr Dent. 2023; 45 (5): 385–410.
[9] Duggal M, Gizani S, Albadri S, Krämer N, Stratigaki E, Tong HJ, et al. Best clinical practice guidance for treating deep carious lesions in primary teeth: an EAPD policy document. European Archives of Paediatric Dentistry. 2022; 23 (5): 659–666. doi: 10.1007/s40368-022-00718-6.
[10] Freeman R. Communicating with children and parents: recommendations for a child-parent-centred approach for paediatric dentistry. Eur Arch Paediatr Dent. 2008; 9 (Suppl 1): 16–22. doi:10.1007/BF03262651.
[11] Kossak, H.-C., Zehner, G. Hypnose beim Kinderzahnarzt, Springer Verlag, Berlin-Heidelberg (2011).
[12] Meißner, N. Stressreduktion durch Struktur: Individuelle Praxisorganisation, Quintessenz 2018; 69 (11): 2-9.
[13] Meißner N. Misserfolge in der Kinderzahnbehandlung. ZMK. 2021; 37 (12): 776–785.
[14] Meißner N. Verhaltensmanagement in der Kinderzahnmedizin: ein Ansatz zur Förderung kindlicher Kooperation. Oralprophylaxe Kinderzahnmedizin. 2024 Jun; 46: 108–113.
[15] Meißner N. Milchzahnendodontie – zeichnet sich ein Paradigmenwechsel ab? ZMK. 2024; 40 (10): 552–558.
[16] Rahman A, Hinrichs-Priller J. Ambulante zahnärztliche Behandlung von Kindern und Jugendlichen in Allgemeinanästhesie. Oralprophylaxe Kinderzahnheilkd. 2022; 44 (4): 22–25.
[17] Roberts, J.F., Corzon, M.E., Koch, G., Martens, L.C. Review: behaviour management techniques in paediatric dentistry, Eur Arch Paediatr Dent. 2010; 11 (4), 166-74.
[18] Schmidt G. Einführung in die hypnosystemische Therapie und Beratung_._ 5. unveränderte Aufl. Heidelberg: Carl-Auer Verlag; 2020. ISBN 978-3-89670-470-2

ZMK 2026; 42 (11-12) S. 582-593

PD Dr. Julian Schmoeckel, M. Sc., PD Dr. Ruth M. Santamaría, M. Sc., Prof. Dr. Christian H. Splieth, Dr. Ahmed Al Masri, M. Sc.

Zahnärztliche Schmerzbehandlung im Kindesalter – Ein Konzept hilft!

[1] Splieth CH, Al Masri A, Sharma A, Cordeiro N, Schmoeckel J, Santamaría RM. Teledentistry in Pediatric Dental Care During Periods of Restricted Access: A Pilot Feasibility Study. J Clin Med 2026. doi:10.3390/jcm15124675.
[2] Schmoeckel J, Santamaría RM, Basner R, Schankath E, Splieth CH. Mundgesundheitstrends im Kindesalter : Ergebnisse aus den epidemiologischen Begleituntersuchungen zur Gruppenprophylaxe in Deutschland. [Oral health trends in children : Results from the

epidemiological surveys accompanying group prophylaxis in Germany]. Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz. 2021;64:772–81. doi:10.1007/s00103-021-03341-w.
[3] Shahin M, Schmoeckel J, Splieth C, Mourad MS. Cross-sectional Analysis of Emergency Dental Pediatric Patients and Proposal of Guidance for Clinical Management. J Int Soc Prev Community Dent. 2025;15:50–60. doi:10.4103/jispcd.jispcd_124_24.
[4] Locker D, Liddell A, Dempster L, Shapiro D. Age of onset of dental anxiety. J Dent Res. 1999;78:790–6. doi:10.1177/00220345990780031201.
[5] Alzubaidi MA, Drummond BK, Wu J, Jones A, Aggarwal VR. Interventions to Reduce Intra-Operative and Post-Operative Pain Associated with Routine Dental Procedures in Children: A Systematic Review and Meta-Analysis. Dent J (Basel) 2024. doi:10.3390/dj12060163.
[6] Mourad MS, Santamaria RM, Splieth CH, Schwahn C, Midani R, Schmoeckel J. Impact of operators' experience and patients' age on the success of nitrous oxide sedation for dental treatment in children. Eur J Paediatr Dent. 2022;23:183–8. doi:10.23804/ejpd.2022.23.03.03.
[7] Rashid BA, Al Masri A, Splieth CH, Abdalla M, Schmoeckel J. Dental Decision-Making in Pediatric Dentistry: A Cross-Sectional Case-Based Questionnaire Among Dentists in Germany. Medicina (Kaunas) 2024. doi:10.3390/medicina60111907.
[8] Splieth C, Santamaría RM, Schmoeckel J. Kinderzahnheilkunde in der Praxis. 2nd ed. Berlin: Quintessenz Verlags-GmbH; 2024.
[9] DGMKG, DGZMK. S2k-Leitlinie (Langfassung): Therapie des dentalen Traumas bleibender Zähne - AWMF-Registernummer: 083-004. 2022. https://register.awmf.org/assets/guidelines/083-004l_S2k_Therapie-des-dentalen-Traumas-bleibender-Zaehne_2022-10.pdf. Accessed 23 Sep 2026.
[10] Al Masri, et al. Pulpotomie am Milchzahn: Überversorgung oder Notwendigkeit in der Kinderzahnheilkunde. ZMK 2026; 42 (10): 482-492.

ZMK 2026; 42 (11-12) S. 594-595

Prof. Dr. Clemens Walter

Implantatnachsorge – wie häufig ist häufig genug?

Studienrezension: Monje A, Aranda L, Diaz KT, Alarcón MA, Bagramian RA, Wang HL, Catena A. Impact of Maintenance Therapy for the Prevention of Peri-implant Diseases: A Systematic Review and Meta-analysis. Journal of Dental Research. 2016;95(4):372–379. doi:10.1177/0022034515622432.

Ergänzende Literatur

[1] Lang NP, Wilson TG, Corbet EF. Biological complications with dental implants: their prevention, diagnosis and treatment. Clin Oral Implants Res. 2000;11(Suppl 1):146–155. doi:10.1034/j.1600-0501.2000.011S1146.x.
[2] Herrera D, Berglundh T, Schwarz F, et al. Prevention and treatment of peri-implant diseases—The EFP S3 level clinical practice guideline. J Clin Periodontol. 2023;50(Suppl 26):4–76. doi:10.1111/jcpe.13823.
[3] Wang HL, Avila-Ortiz G, Monje A, et al. AO/AAP consensus on prevention and management of peri-implant diseases and conditions: Summary report. J Periodontol. 2025;96:519–541. doi:10.1002/JPER.25-0270.
[4] ClinicalTrials.gov. Supportive Peri-implant Care Frequency After Surgical Treatment of Peri-implantitis. NCT06762353.

ZMK 2026; 42 (11-12) S. 602-605

Prof. Dr. Stefan Fickl

Nichtchirurgische Behandlung eines scheinbar hoffnungslosen, parodontal massiv geschädigten Zahnes

[1] Anderson W, Pye A. Management of intrabony defects in periodontal disease. Dental Update 2019; 46 (3): 257-265.

[2] Benyei, L., Friedmann, A., Ostermann, T. et al. Non-surgical treatment of residual periodontal pockets using sodium hypochlorite/amino acid gel and cross-linked hyaluronic acid—a 9-month pilot randomized controlled clinical trial. Clin Oral Invest. 2024; 28: 513.

[3] Billings, M., Holtfreter, B., Papapanou, P. N., Mitnik, G. L., Kocher, T., & Dye, B. A. (2018). Age-dependent distribution of periodontitis in two countries: Findings from NHANES 2009 to 2014 and SHIP TREND 2008 to 2012. Journal of Clinical Periodontology 2018; 45 (Suppl 20): S130–S148. https://doi.org/10.1111/jcpe.12944

[4] Jurczyk K, S. Nietzsche, C. Ender, A. Sculean, and S. Eick, "In-vitro activity of sodium-hypochlorite gel on bacteria associated with periodontitis," Clin Oral Investig. 2016; 20 (8): 2165-2173. doi: 10.1007/s00784-016-1711-9.

[5] Kassebaum, N. J., Smith, A. G. C., Bernabe, E., Fleming, T. D., Reynolds, A. E., Vos, T., ...G. B. D. O. H. Collaborators. (2017). Global, regional, and national prevalence, incidence, and disability-adjusted life years for oral conditions for 195 countries, 1990–2015: A systematic

analysis for the global burden of diseases, injuries, and risk factors. Journal of Dental Research. 2017; 96 (4): 380–387.

[6] King SR, Hickerson WL, Proctor KG. Beneficial actions of exogenous hyaluronic acid on wound healing. Surgery. 1991; 109: 76-84.

[7] Pirnazar P, L. Wolinsky, S. Nachnani, S. Haake, A. Pilloni, and G. W. Bernard, "Bacteriostatic effects of hyaluronic acid," J Periodontol. 1999; 70 (4):,370-4. doi: 10.1902/jop.1999.70.4.370.

[8] Mailoa J, Lin GH, Khoshkam V, MacEachern M, Chan HL, Wang HL. Long-Term Effect of Four Surgical Periodontal Therapies and One Non-Surgical Therapy: A Systematic Review and Meta-Analysis. J Periodontol. 2015 Oct; 86 (10): 1150-8.

[9] Radulescu V, et al., "Clinical and microbiological effects of a single application of sodium hypochlorite gel during subgingival re-instrumentation: a triple-blind randomized placebo-controlled clinical trial," Clin Oral Investig, 2022; 26 (11): 6639-6652. doi: 10.1007/s00784-022-04618-3.

[10] Rajan, Padma & Dusanapudi, Lakshmayya Naidu & Kumar, ChetanS & Nair, Divya. Hyaluronic acid - a simple, unusual polysaccharide: A potential mediator for periodontal regeneration. Universal Research Journal of Dentistry. 2013; 3: 113. 10.4103/2249-9725.123973.

[11] Ramanauskaite, E., Machiulskiene, V., Shirakata, Y. et al. Clinical evaluation of sodium hypochlorite/amino acids and cross-linked hyaluronic acid adjunctive to non-surgical periodontal treatment: a randomized controlled clinical trial. Clin Oral Invest. 2023; 27: 6645–6656.

[12] Sanz M, Herrera D, Kebschull M, et al; On behalf of the EFP Workshop Participants and Methodological Consultants. Treatment of stage I–III periodontitis—The EFP S3 level clinical practice guideline. J Clin Periodontol. 2020; 47: 4–60. https://doi.org/10.1111/jcpe.13290

[13] Shirakata Y, Nakamura T, Setoguchi F, Imafuji T, Shinohara Y, Matsumura S, Iwata M, Noguchi K, Ramanauskaite E, Sculean A. Histological evaluation of nonsurgical periodontal treatment with and without the use of sodium hypochlorite / amino acids and cross-linked hyaluronic acid gels in dogs. Clin Oral Investig. 2024 Apr 27; 28 (5): 281.

[14] Simonelli, A., Farina, R., Minenna, L. *et al.* Factors influencing pocket closure in surgically-treated intraosseous defects. A retrospective analysis. Clin Oral Invest. 2025; 29: 316.

[15] Tomasi C, Liss A, Welander M, Alian AY, Abrahamsson KH, Wennström JL. A randomized multi-centre study on the effectiveness of non-surgical periodontal therapy in general practice. J

Clin Periodontol. 2022 Nov; 49 (11): 1092-1105. doi: 10.1111/jcpe.13703. Epub 2022 Jul 27. PMID: 35833528; PMCID: PMC9796759.

ZMK 2026; 42 (11-12) S. 616-617

Dagmar Kromer-Busch

„Kieferorthopädische Risikokinder“ früh identifizieren

[1] Thornton AR, Montgomery EA, Graham ME, Riley CA, Lawlor CM. Systematic Review of Tongue Tie Publications: Exponential Rise in Publications Without Exponential Increase in Evidence. Otolaryngol Head Neck Surg. 2025;173(2):324-331. doi:10.1002/ohn.1264

[2] Statement des Berufsverbandes der Kinder- und Jugendärzt*innen BVKJ zur Behandlung eines kurzen Zungenbändchens vom 26.5.2026 https://www.kinderaerzte-im-netz.de/; jüngster Zugriff 06.10.2026

[3] Miller JE, Chung HR, Marshall CR, Wilhalme HM, West AN. Outcomes of stretching exercises after lingual frenotomy in infants: A prospective, interventional study. Int J Pediatr Otorhinolaryngol. 2025;191:112280. doi:10.1016/j.ijporl.2025.112280

[4] Sambale J. Jablonski-Momeni A, Korbmacher-Steiner H: Initial lip position and its Impact on mandibular advancement in class II patientes treated with functional orthopedic appliances. Clin Oral Invest. 2024 Jan 30;28(2): 126

[5] Kühnisch J, Ammar N, Fresen KF, Gaballah R, Pernegger E, Schill HI, Amend S, Heinrich J, Krämer N. The association of perinatal factors with Molar Hypomineralization and caries–Results from an observational study, Journal of Dentistry (2026), doi: https://doi.org/10.1016/j.jdent.2026.107048; jüngster Zugriff 06.10.2026

[6] Rajasekharan, S. Molar-incisor hypomineralization: extraction therapy. Oralprophylaxe Kinderzahnmedizin 47, 40–42 (2025). https://doi.org/10.1007/s44190-025-1082-5

[7] Hamza B, Papageorgiou SN, Patcas R, Schätzle M. Spontaneous space closure after extraction of permanent first molars in children and adolescents: a systematic review and meta-analysis. Eur J Orthod. 2024;46(6):cjae054. doi:10.1093/ejo/cjae054