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Leitlinien der EFP und der DG Paro zur Behandlung der Parodontitis: Hintergrund, Methode und Transfer in die Praxis

1 Carra MC, Detzen L, Kitzmann J, Woelber JP, Ramseier CA, Bouchard P. Promoting behavioural changes to improve oral hygiene in patients with periodontal diseases: A systematic review. *J Clin Periodontol.* 2020 Jul;47 Suppl 22:72-89. doi: 10.1111/jcpe.13234. PMID: 31912530.

2 Caton JG, Armitage G, Berglundh T, Chapple ILC, Jepsen S, Kornman KS, Mealey BL, Papapanou PN, Sanz M, Tonetti MS. A new classification scheme for periodontal and peri-implant diseases and conditions - Introduction and key changes from the 1999 classification. *J Clin Periodontol.* 2018 Jun;45 Suppl 20:S1-S8. doi: 10.1111/jcpe.12935. PMID: 29926489.

3 Chapple ILC, Mealey BL, Van Dyke TE, Bartold PM, Dommisch H, Eickholz P, Geisinger ML, Genco RJ, Glogauer M, Goldstein M, Griffin TJ, Holmstrup P, Johnson GK, Kapila Y, Lang NP, Meyle J, Murakami S, Plemons J, Romito GA, Shapira L, Tatakis DN, Teughels W, Trombelli L, Walter C, Wimmer G, Xenoudi P, Yoshie H. Periodontal health and gingival diseases and conditions on an intact and a reduced periodontium: Consensus report of workgroup 1 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.* 2018 Jun;89 Suppl 1:S74-S84.

4 Dommisch H, Walter C, Dannewitz B, Eickholz P. Resective surgery for the treatment of furcation involvement: A systematic review. *J Clin Periodontol.* 2020 Jul;47 Suppl 22:375-391. doi: 10.1111/jcpe.13241. PMID: 31912534.

5 Donos N, Calciolari E, Brusselaers N, Goldoni M, Bostanci N, Belibasakis GN. The adjunctive use of host modulators in non-surgical periodontal therapy. A systematic review of randomized, placebo-controlled clinical studies. *J Clin Periodontol.* 2020 Jul;47 Suppl 22:199-238. doi: 10.1111/jcpe.13232. PMID: 31834951.

6 Figuero E, Roldán S, Serrano J, Escribano M, Martín C, Preshaw PM. Efficacy of adjunctive therapies in patients with gingival inflammation: A systematic review and meta-analysis. J Clin Periodontol. 2020 Jul;47 Suppl 22:125-143. doi: 10.1111/jcpe.13244. PMID: 31869441.

7 Guyatt GH, Oxman AD, Kunz R, Atkins D, Brozek J, Vist G, Alderson P, Glasziou P, Falck-Ytter Y, Schünemann HJ. GRADE guidelines: 2. Framing the question and deciding on important outcomes. J Clin Epidemiol. 2011 Apr;64(4):395-400. doi: 10.1016/j.jclinepi.2010.09.012.

8 Hahner P. Evidenzklassen: Warum hat nicht jede Studie die gleiche Aussagekraft? PnC 2019; 13(3): 164-165.

9 Herrera D, Matesanz P, Martín C, Oud V, Feres M, Teughels W. Adjunctive effect of locally delivered antimicrobials in periodontitis therapy: A systematic review and meta-analysis. J Clin Periodontol. 2020 Jul;47 Suppl 22:239-256. doi: 10.1111/jcpe.13230. PMID: 31912531.

10 <https://www.awmf.org/leitlinien/awmf-regelwerk/II-entwicklung/awmf-regelwerk-03-leitlinienentwicklung/II-entwicklung-formulierung-und-graduierung-von-empfehlungen.html>, letzter Zugriff am 08.02.2021

11 <https://www.awmf.org/leitlinien/awmf-regelwerk/II-entwicklung/awmf-regelwerk-03-leitlinienentwicklung/II-entwicklung-strukturierte-konsensfindung.html>, letzter Zugriff am 22.03.2021

12 Hujoel PP, DeRouen TA. A survey of endpoint characteristics in periodontal clinical trials published 1988-1992, and implications for future studies. J Clin Periodontol. 1995 May;22(5):397-407. doi: 10.1111/j.1600-051x.1995.tb00167.x. PMID: 7601922.

13 Jepsen S, Caton JG, Albandar JM, Bissada NF, Bouchard P, Cortellini P, Demirel K, de Sanctis M, Ercoli C, Fan J, Geurs NC, Hughes FJ, Jin L, Kantarci A, Lalla E, Madianos PN, Matthews D, McGuire MK, Mills MP, Preshaw PM, Reynolds MA,

Sculean A, Susin C, West NX, Yamazaki K. Periodontal manifestations of systemic diseases and developmental and acquired conditions: Consensus report of workgroup 3 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol*. 2018 Jun;89 Suppl 1:S237-S248. doi: 10.1002/JPER.17-0733. PMID: 29926943.

14 Jepsen S, Gennai S, Hirschfeld J, Kalemaj Z, Buti J, Graziani F. Regenerative surgical treatment of furcation defects: A systematic review and Bayesian network meta-analysis of randomized clinical trials. *J Clin Periodontol*. 2020 Jul;47 Suppl 22:352-374. doi: 10.1111/jcpe.13238. PMID: 31860125.

15 Kunz R, Burnand B, Schünemann HJ. Das GRADE-System: Ein internationaler Ansatz zur Vereinheitlichung der Graduierung von Evidenz und Empfehlungen in Leitlinien. *Internist* 2008;49(6):673-680.

16 Loos BG, Needleman I. Endpoints of active periodontal therapy. *J Clin Periodontol*. 2020 Jul;47 Suppl 22(Suppl 22):61-71. doi: 10.1111/jcpe.13253. PMID: 31912527; PMCID: PMC7670400.

17 Methley AM, Campbell S, Chew-Graham C, McNally R, Cheraghi-Sohi S. PICO, PICOS and SPIDER: a comparison study of specificity and sensitivity in three search tools for qualitative systematic reviews. *BMC Health Serv Res*. 2014 Nov 21;14:579. doi: 10.1186/s12913-014-0579-0. PMID: 25413154; PMCID: PMC4310146.

18 Nibali L, Koidou VP, Nieri M, Barbato L, Pagliaro U, Cairo F. Regenerative surgery versus access flap for the treatment of intra-bony periodontal defects: A systematic review and meta-analysis. *J Clin Periodontol*. 2020 Jul;47 Suppl 22:320-351. doi: 10.1111/jcpe.13237. PMID: 31860134.

19 Papapanou PN, Sanz M, Buduneli N, Dietrich T, Feres M, Fine DH, Flemmig TF, Garcia R, Giannobile WV, Graziani F, Greenwell H, Herrera D, Kao RT, Kebschull M, Kinane DF, Kirkwood KL, Kocher T, Kornman KS, Kumar PS, Loos BG, Machtei E, Meng H, Mombelli A, Needleman I, Offenbacher S, Seymour GJ, Teles R, Tonetti MS. 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 Jun;89 Suppl 1:S173-S182. doi: 10.1002/JPER.17-0721. PMID: 29926951.

20 Polak D, Wilensky A, Antonoglou GN, Shapira L, Goldstein M, Martin C. The efficacy of pocket elimination/reduction compared to access flap surgery: A systematic review and meta-analysis. J Clin Periodontol. 2020 Jul;47 Suppl 22:303-319. doi: 10.1111/jcpe.13246. PMID: 31912516.

21 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 Jul;47 Suppl 22:90-106. doi: 10.1111/jcpe.13240. PMID: 31912512.

22 S3-Leitlinie (Langversion): https://www.awmf.org/uploads/tx_szleitlinien/083-043l_S3_Behandlung-von-Parodontitis-Stadium-I-III_2021-02_2.pdf, letzter Zugriff am 22.03.2021

23 Salvi GE, Stähli A, Schmidt JC, Ramseier CA, Sculean A, Walter C. Adjunctive laser or antimicrobial photodynamic therapy to non-surgical mechanical instrumentation in patients with untreated periodontitis: A systematic review and meta-analysis. J Clin Periodontol. 2020 Jul;47 Suppl 22:176-198. doi: 10.1111/jcpe.13236. PMID: 31859395.

24 Sanz M, Herrera D, Kerschull M, Chapple I, Jepsen S, Beglundh T, Sculean A, Tonetti MS; EFP Workshop Participants and Methodological Consultants. Treatment of stage I-III periodontitis-The EFP S3 level clinical practice guideline. J Clin Periodontol. 2020 Jul;47 Suppl 22(Suppl 22):4-60. doi: 10.1111/jcpe.13290.

25 Sanz-Sánchez I, Montero E, Citterio F, Romano F, Molina A, Aimetti M. Efficacy of access flap procedures compared to subgingival debridement in the treatment of periodontitis. A systematic review and meta-analysis. J Clin Periodontol. 2020 Jul;47 Suppl 22:282-302. doi: 10.1111/jcpe.13259. PMID: 31970821.

26 Schünemann HJ, Wiercioch W, Brozek J, Etzeandía-Ikobaltzeta I, Mustafa RA, Manja V, Brignardello-Petersen R, Neumann I, Falavigna M, Alhazzani W, Santesso N, Zhang Y, Meerpohl JJ, Morgan RL, Rochwerg B, Darzi A, Rojas MX, Carrasco-Labra A, Adi Y, AlRayees Z, Riva J, Bollig C, Moore A, Yepes-Nuñez JJ, Cuello C, Waziry R, Akl EA. GRADE Evidence to Decision (EtD) frameworks for adoption, adaptation, and de novo development of trustworthy recommendations: GRADE-ADOLOPMENT. *J Clin Epidemiol*. 2017 Jan;81:101-110. doi: 10.1016/j.jclinepi.2016.09.009. Epub 2016 Oct 3. PMID: 27713072.

27 Schünemann HJ. GRADE: Von der Evidenz zur Empfehlung. Beschreibung des Systems und Lösungsbeitrag zur Übertragbarkeit von Studienergebnissen [GRADE: from grading the evidence to developing recommendations. A description of the system and a proposal regarding the transferability of the results of clinical research to clinical practice]. *Z Evid Fortbild Qual Gesundheitswes*. 2009;103(6):391-400. German. doi: 10.1016/j.zefq.2009.05.023. PMID: 19839216.

28 Schwendicke F, Graetz C, Stolpe M, Dörfer CE. Retaining or replacing molars with furcation involvement: a cost-effectiveness comparison of different strategies. *J Clin Periodontol*. 2014 Nov;41(11):1090-7. doi: 10.1111/jcpe.12315. Epub 2014 Oct 21. PMID: 25255893.

29 Schwendicke F, Plaumann A, Stolpe M, Dörfer CE, Graetz C. Retention costs of periodontally compromised molars in a German population. *J Clin Periodontol*. 2016 Mar;43(3):261-70. doi: 10.1111/jcpe.12509. Epub 2016 Mar 4. PMID: 27001032.

30 Shea BJ, Reeves BC, Wells G, Thuku M, Hamel C, Moran J, Moher D, Tugwell P, Welch V, Kristjansson E, Henry DA. AMSTAR 2: a critical appraisal tool for systematic reviews that include randomised or non-randomised studies of healthcare interventions, or both. *BMJ*. 2017 Sep 21;358:j4008. doi: 10.1136/bmj.j4008. PMID: 28935701; PMCID: PMC5833365.

31 Suvan J, Leira Y, Moreno Sancho FM, Graziani F, Derks J, Tomasi C. Subgingival instrumentation for treatment of periodontitis. A systematic review. *J Clin Periodontol*. 2020 Jul;47 Suppl 22:155-175. doi: 10.1111/jcpe.13245.

32 Teughels W, Feres M, Oud V, Martín C, Matesanz P, Herrera D. Adjunctive effect of systemic antimicrobials in periodontitis therapy: A systematic review and meta-analysis. *J Clin Periodontol*. 2020 Jul;47 Suppl 22:257-281. doi: 10.1111/jcpe.13264. PMID: 31994207.

33 Tonetti MS, Greenwell H, Kornman KS. Staging and grading of periodontitis: Framework and proposal of a new classification and case definition. *J Periodontol*. 2018 Jun;89 Suppl 1:S159-S172. doi: 10.1002/JPER.18-0006. Erratum in: *J Periodontol*. 2018 Dec;89(12):1475. PMID: 29926952.

34 Trombelli L, Farina R, Pollard A, Claydon N, Franceschetti G, Khan I, West N. Efficacy of alternative or additional methods to professional mechanical plaque removal during supportive periodontal therapy: A systematic review and meta-analysis. *J Clin Periodontol*. 2020 Jul;47 Suppl 22:144-154. doi: 10.1111/jcpe.13269. PMID: 32060940.