

LITERATUR

Thema: Bruxismus als Risikofaktor für das Implantatüberleben -
Evidenzlage und aktuelle Therapieoptionen

Autorin: Dr. Dr. Diana Heimes

1. Lobbezoo F, Ahlberg J, Glaros AG, Kato T, Koyano K, Lavigne GJ, et al. Bruxism defined and graded: an international consensus. *J Oral Rehabil.* 2013;40(1):2-4.
2. Lobbezoo F, Ahlberg J, Raphael KG, Wetselaar P, Glaros AG, Kato T, et al. International consensus on the assessment of bruxism: Report of a work in progress. *J Oral Rehabil.* 2018;45(11):837-44.
3. Lavigne GJ, Khoury S, Abe S, Yamaguchi T, Raphael K. Bruxism physiology and pathology: an overview for clinicians. *J Oral Rehabil.* 2008;35(7):476-94.
4. Manfredini D, Winocur E, Guarda-Nardini L, Paesani D, Lobbezoo F. Epidemiology of bruxism in adults: a systematic review of the literature. *J Orofac Pain.* 2013;27(2):99-110.
5. Peroz IB, Olaf; Kares, Horst; Korn, Hans-Jürgen; Kropp; Lange, Matthias; Müller, Alice; Nilges, Paul; Ommerborn, Michelle Alicia; Steffen, Armin; Tholen, Reina; Türp, Jens Christoph; Wolowski, Anne. S3-Leitlinie Diagnostik und Behandlung von Bruxismus AWMF-Registernummer: 083-027. AWMF; 2019.
6. Murali RV, Rangarajan P, Mounissamy A. Bruxism: Conceptual discussion and review. *J Pharm Bioallied Sci.* 2015;7(Suppl 1):S265-70.
7. Zhou Y, Gao J, Luo L, Wang Y. Does Bruxism Contribute to Dental Implant Failure? A Systematic Review and Meta-Analysis. *Clin Implant Dent Relat Res.* 2016;18(2):410-20.
8. Haggman-Henrikson B, Ali D, Aljamal M, Chrcanovic BR. Bruxism and dental implants: A systematic review and meta-analysis. *J Oral Rehabil.* 2024;51(1):202-17.
9. Chrcanovic BR, Kisch J, Albrektsson T, Wennerberg A. Bruxism and dental implant failures: a multilevel mixed effects parametric survival analysis approach. *J Oral Rehabil.* 2016;43(11):813-23.
10. Chrcanovic BR, Kisch J, Albrektsson T, Wennerberg A. Bruxism and dental implant treatment complications: a retrospective comparative study of 98 bruxer patients and a matched group. *Clin Oral Implants Res.* 2017;28(7):e1-e9.
11. Ionfrida JA, Stiller HL, Kammerer PW, Walter C. Dental Implant Failure Risk in Patients with Bruxism-A Systematic Review and Meta-Analysis of the Literature. *Dent J (Basel).* 2024;13(1).
12. Bredberg C, Vu C, Haggman-Henrikson B, Chrcanovic BR. Marginal bone loss around dental implants: comparison between matched groups of bruxer and non-bruxer patients: A retrospective case-control study. *Clin Implant Dent Relat Res.* 2023;25(1):124-32.
13. Van Zandijcke M, Marchau MM. Treatment of bruxism with botulinum toxin injections. *J Neurol Neurosurg Psychiatry.* 1990;53(6):530.
14. Pabst A, Kammerer PW, Heimes D, Zeller AN, Quarta M. Botulinum toxin for bruxism treatment: a nationwide study among oral and maxillofacial surgeons in Germany. *Clin Oral Investig.* 2024;28(9):501.

15. Jung BK, Park H, Cheon YW, Yun IS, Choi JW, Kim HJ, et al. Clinical investigation of botulinum toxin (prabotulinumtoxin A) for bruxism related to masseter muscle hypertrophy: A prospective study. *J Craniomaxillofac Surg.* 2023;51(5):332-7.
16. Sendra LA, Montez C, Vianna KC, Barboza EP. Clinical outcomes of botulinum toxin type A injections in the management of primary bruxism in adults: A systematic review. *J Prosthet Dent.* 2021;126(1):33-40.
17. Cheng Y, Yuan L, Ma L, Pang F, Qu X, Zhang A. Efficacy of botulinum-A for nocturnal bruxism pain and the occurrence of bruxism events: a meta-analysis and systematic review. *Br J Oral Maxillofac Surg.* 2022;60(2):174-82.
18. Chen Y, Tsai CH, Bae TH, Huang CY, Chen C, Kang YN, et al. Effectiveness of Botulinum Toxin Injection on Bruxism: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *Aesthetic Plast Surg.* 2023;47(2):775-90.
19. Shehri ZG, Alkhouri I, Hajeer MY, Haddad I, Abu Hawa MH. Evaluation of the Efficacy of Low-Dose Botulinum Toxin Injection Into the Masseter Muscle for the Treatment of Nocturnal Bruxism: A Randomized Controlled Clinical Trial. *Cureus.* 2022;14(12):e32180.
20. Yadav K, Nagpal A, Agarwal SK, Kochhar A. Intricate Assessment and Evaluation of Effect of Bruxism on Long-term Survival and Failure of Dental Implants: A Comparative Study. *J Contemp Dent Pract.* 2016;17(8):670-4.
21. Shahapur SG, Patil K, Manhas S, Datta N, Jadhav P, Gupta S. Predictive Factors of Dental Implant Failure: A Retrospective Study Using Decision Tree Regression. *Cureus.* 2024;16(12):e75192.
22. Manfredini D, Poggio CE, Lobbezoo F. Is bruxism a risk factor for dental implants? A systematic review of the literature. *Clin Implant Dent Relat Res.* 2014;16(3):460-9.
23. S2k-Leitlinie Okklusionsschienen zur Behandlung craniomandibulärer Dysfunktionen und zur präprothetischen Therapie. AWMF-Registernummer: 083-051 [Internet]. AWMF online. 2024. Available from: <https://register.awmf.org/de/leitlinien/detail/083-051>.
24. Sakai T, Kato T, Yoshizawa S, Suganuma T, Takaba M, Ono Y, et al. Effect of clonazepam and clonidine on primary sleep bruxism: a double-blind, crossover, placebo-controlled trial. *J Sleep Res.* 2017;26(1):73-83.
25. Lobbezoo F, van der Zaag J, van Selms MK, Hamburger HL, Naeije M. Principles for the management of bruxism. *J Oral Rehabil.* 2008;35(7):509-23.
26. Macedo CR, Macedo EC, Torloni MR, Silva AB, Prado GF. Pharmacotherapy for sleep bruxism. *Cochrane Database Syst Rev.* 2014(10):CD005578.
27. Madani AS, Abdollahian E, Khiavi HA, Radvar M, Foroughipour M, Asadpour H, et al. The efficacy of gabapentin versus stabilization splint in management of sleep bruxism. *J Prosthodont.* 2013;22(2):126-31.
28. Munoz Lora VRM, Del Bel Cury AA, Jabbari B, Lackovic Z. Botulinum Toxin Type A in Dental Medicine. *J Dent Res.* 2019;98(13):1450-7.
29. Burstein R, Blumenfeld AM, Silberstein SD, Manack Adams A, Brin MF. Mechanism of Action of OnabotulinumtoxinA in Chronic Migraine: A Narrative Review. *Headache.* 2020;60(7):1259-72.
30. Sendra LA, Azeredo Alves Antunes L, Barboza EP. Use of botulinum neurotoxin Type A in the management of primary bruxism in adults: An updated systematic review. *J Prosthet Dent.* 2024;132(1):93-9.
31. Li K, Tan K, Yacovelli A, Bi WG. Effect of botulinum toxin type A on muscular temporomandibular disorder: A systematic review and meta-analysis of randomized controlled trials. *J Oral Rehabil.* 2024;51(5):886-97.

32. Pihut M, Ferendiuk E, Szewczyk M, Kasprzyk K, Wieckiewicz M. The efficiency of botulinum toxin type A for the treatment of masseter muscle pain in patients with temporomandibular joint dysfunction and tension-type headache. *J Headache Pain*. 2016;17:29.
33. El Shafei S, Raafat S, Amin A. Botulinum Toxin Injection, A Potentially Effective Method For Preventing Implant Failure In Patients With Bruxism. *Egyptian Dental Journal*. 2022.
34. Mijiritsky E, Mortellaro C, Rudberg O, Fahn M, Basegmez C, Levin L. Botulinum Toxin Type A as Preoperative Treatment for Immediately Loaded Dental Implants Placed in Fresh Extraction Sockets for Full-Arch Restoration of Patients With Bruxism. *J Craniofac Surg*. 2016;27(3):668-70.
35. Ali SM, Alqutaibi AY, Aboalrejal A, Elawady DM. Botulinum toxin and occlusal splints for the management of sleep bruxism in individuals with implant overdentures: A randomized controlled trial. *Saudi Dent J*. 2021;33(8):1004-11.
36. Song JY. Implant complications in bruxism patients. *J Korean Assoc Oral Maxillofac Surg*. 2021;47(2):149-50.
37. Malcangi G, Patano A, Pezzolla C, Riccaldo L, Mancini A, Di Pede C, et al. Bruxism and Botulinum Injection: Challenges and Insights. *J Clin Med*. 2023;12(14).
38. Yeh YT, Peng JH, Peng HP. Literature review of the adverse events associated with botulinum toxin injection for the masseter muscle hypertrophy. *J Cosmet Dermatol*. 2018;17(5):675-87.
39. Zeller A-NB-B, Benedicta; Fehn, Karsten. Botulinumtoxin in der Bruximustherapie. *Zahnärztliche Mitteilungen*. 2022;22.