

Literaturverzeichnis

- [1] Schindler, H.J., et al., *[Clinical management of masticatory muscle pain: an update of the recommendations]*. Schmerz, 2013. 27(3): p. 243-52.
- [2] Ommerborn, M.A., et al., *A survey on German dentists regarding the management of craniomandibular disorders*. Clin Oral Investig, 2010. 14(2): p. 137-44.
- [3] Stalberg, E. and P.O. Eriksson, *A scanning electromyographic study of the topography of human masseter single motor units*. Arch Oral Biol, 1987. 32(11): p. 793-7.
- [4] McMillan, A.S. and A.G. Hannam, *Motor-unit territory in the human masseter muscle*. Arch Oral Biol, 1991. 36(6): p. 435-41.
- [5] Peck, C.C., A. Wirianski, and G.M. Murray, *Jaw motor plasticity in health and disease*. Comput Methods Biomech Biomed Engin, 2010. 13(4): p. 455-458.
- [6] Hellmann, D., et al., *Long-term training effects on masticatory muscles*. J Oral Rehabil, 2011. 38(12): p. 912-20.
- [7] Schindler, H.J., E. Stengel, and W.E.L. Spieß, *Die neuromuskuläre Wirkung von Aufbissschienen*. Dtsch Zahnärztl Z, 1999. 54: p. 332-338.
- [8] Terebesi, S., et al., *Small vertical changes in jaw relation affect motor unit recruitment in the masseter*. J Oral Rehabil, 2016. 43(4): p. 259-68.
- [9] Hellmann, D., et al., *Static balancing behaviour of the mandible*. Eur J Oral Sci, 2015. 123(6): p. 439-46.
- [10] Türker, K., *Reflex control of human jaw muscles*. Crit Rev Oral Biol Med, 2002. 13(1): p. 85-104.
- [11] Kubein-Meesenburg, D., *Die kraniale Grenzfunktion des stomatognathen Systems des Menschen*. 1985, München: Carl Hanser.
- [12] Schindler, H.J., J.C. Türp, and A. Hugger, *Therapie von Kaumuskelschmerzen mit Okklusionsschienen*. Z Evid Fortbild Qual Gesundheitswes, 2013: p. in Druck.
- [13] Raphael, K.G. and J.J. Marbach, *Widespread pain and the effectiveness of oral splints in myofascial face pain*. J Am Dent Assoc, 2001. 132(3): p. 305-16.
- [14] Ekberg, E., D. Vallon, and M. Nilner, *The efficacy of appliance therapy in patients with temporomandibular disorders of mainly myogenous origin. A randomized, controlled, short-term trial*. J Orofac Pain, 2003. 17(2): p. 133-9.
- [15] Friction, J., et al., *Systematic review and meta-analysis of randomized controlled trials evaluating intraoral orthopedic appliances for temporomandibular disorders*. J Orofac Pain, 2010. 24(3): p. 237-54.
- [16] Ekberg, E.C. and M. Nilner, *Treatment outcome of short- and long-term appliance therapy in patients with TMD of myogenous origin and tension-type headache*. J Oral Rehabil, 2006. 33(10): p. 713-21.
- [17] Wright, E., G. Anderson, and J. Schulte, *A randomized clinical trial of intraoral soft splints and palliative treatment for masticatory muscle pain*. J Orofac Pain, 1995. 9(2): p. 192-9.
- [18] Stapelmann, H. and J.C. Türp, *The NTI-tss device for the therapy of bruxism, temporomandibular disorders, and headache - where do we stand? A qualitative systematic review of the literature*. BMC Oral Health, 2008. 8: p. 22.
- [19] Weggen, T., et al., *Clinical and electromyographic follow-up of myofascial pain patients treated with two types of oral splint: a randomized controlled pilot study*. Int J Comput Dent, 2013. 16(3): p. 209-24.
- [20] Giannakopoulos, N.N., et al., *Comparison of three different options for immediate treatment of painful temporomandibular disorders: a randomized, controlled pilot trial*. Acta Odontol Scand, 2016. 74(6): p. 480-6.
- [21] Manns, A., et al., *Influence of the vertical dimension in the treatment of myofascial pain-dysfunction syndrome*. J Prosthet Dent, 1983. 50(5): p. 700-9.

- [22] Svensson, P. and B. Sessle, *Orofacial pain*, in *Clinical Oral Physiology*, T.S. Miles, B. Nauntofte, and P. Svensson, Editors. 2004, Quintessence: Copenhagen. p. 93-139.
- [23] Chu, S.A., et al., *The effect of interocclusal appliances on temporomandibular joints as assessed by 3D reconstruction of MRI scans*. Aust Dent J, 2001. 46(1): p. 18-23.
- [24] Ettlin, D.A., et al., *Stereometric Assessment of TMJ Space Variation by Occlusal Splints*. J Dent Res, 2008. 87(9): p. 877-81.
- [25] Demling, A., et al., *A comparison of change in condylar position in asymptomatic volunteers utilizing a stabilization and a pivot appliance*. Cranio, 2009. 27(1): p. 54-61.
- [26] Van Eijden, T.M.G.V., N.G. Blanksma, and P. Brugman, *Amplitude and timing of EMG activity in the human masseter muscle during selected motor tasks*. J Dent Res, 1993. 72(3): p. 599-606.
- [27] Türp, J.C. and H.J. Schindler, *Zum Zusammenhang zwischen Okklusion und Myoarthropathien: Einführung eines integrierenden neurobiologischen Modells*. Schweiz Monatsschr Zahnmed, 2003. 113: p. 964-977.
- [28] Schindler, H.J., et al., *Differential activity patterns in the masseter muscle under simulated clenching and grinding forces*. J Oral Rehabil, 2005. 32(8): p. 552-63.
- [29] Schindler, H.J., et al., *Heterogeneous activation of the medial pterygoid muscle during simulated clenching*. Arch Oral Biol, 2006. 51(6): p. 498-504.
- [30] Stohler, C.S., *Management of persistent orofacial pain*, in *Orofacial Pain. From Basic Science to Clinical Management*. 2nd ed, B.J. Sessle, et al., Editors. 2008, Quintessence: Chicago. p. 153-160.
- [31] Svensson, P., et al., *One hour of tongue-task training is associated with plasticity in corticomotor control of the human tongue musculature*. Exp Brain Res, 2006. 173(1): p. 165-73.
- [32] Duchateau, J., J.G. Semmler, and R.M. Enoka, *Training adaptations in the behavior of human motor units*. J Appl Physiol, 2006. 101(6): p. 1766-75.
- [33] Lotze, M., et al., *Motor learning elicited by voluntary drive*. Brain, 2003. 126(Pt 4): p. 866-72.
- [34] Geering, A.H. and N.P. Lang, *Die Michigan-Schiene, ein diagnostisches und therapeutisches Hilfsmittel bei Funktionsstörungen im Kausystem. I. Herstellung im Artikulator und Eingliederung am Patienten*. Schweiz Monatsschr Zahnmed, 1978. 88: p. 32-38.
- [35] Ommerborn, M.A., et al., *A survey on German dentists regarding the management of craniomandibular disorders*. Clin Oral Investig, 2009. 13.
- [36] Ramfjord, S.P. and M.M. Ash, *Reflections on the Michigan occlusal splint*. J Oral Rehabil, 1994. 21(5): p. 491-500.
- [37] Schuyler, C.H., *Freedom in centric*. Dent Clin North Am, 1969. 13(3): p. 681-6.
- [38] Velly, A.M., M. Gornitsky, and P. Philippe, *Contributing factors to chronic myofascial pain: a case-control study*. Pain, 2003. 104(3): p. 491-9.
- [39] Glaros, A.G. and E. Burton, *Parafunctional clenching, pain, and effort in temporomandibular disorders*. J Behav Med, 2004. 27(1): p. 91-100.
- [40] Magnusson, T., I. Egermarki, and G.E. Carlsson, *A prospective investigation over two decades on signs and symptoms of temporomandibular disorders and associated variables. A final summary*. Acta Odontol Scand, 2005. 63(2): p. 99-109.
- [41] Macedo, C.R., et al., *Occlusal splints for treating sleep bruxism (tooth grinding)*. Cochrane Database Syst Rev, 2007(4): p. CD005514.
- [42] *Konzept Okklusionsschiene - Basistherapie bei schmerzhaften kranio-mandibulären Dysfunktionen*. 2016, Berlin: Quintessence Publishing, Deutschland.

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Literaturverzeichnis

[1] <https://www.umweltbundesamt.de/themen/umwelt-gesundheitswirkungen-des-3d-drucks>

[2] Netolitzky, Katharina (2023): Biokompatibilität und Zytotoxizität von 3D-gedruckten zahnärztlichen Werkstoffen. Dissertation, LMU München: Medizinische Fakultät, <https://edoc.ub.uni-muenchen.de/33101/>

[3] [Erfolgsfaktoren keramischer CAD/CAM-Materialien – ZWP online – das Nachrichtenportal für die Dentalbranche \(Langzeitstudie Inlays\)](#)

[4] Zusammenfassung von Studien über e.max: [IPS-e-max-Scientific-Report.pdf](#)

[5] [Clinical long-term results and 10-year Kaplan-Meier analysis of Cerec restorations - PubMed](#)

[6] https://online.medunigraz.at/mug_online/wbAbs.getDocument?pThesisNr=78367&pAutorNr=&pOrgNr=14057

[7] <https://bonndoc.ulb.uni-bonn.de/xmlui/handle/20.500.11811/11895>

[8] https://www.ivoclar.com/tr_tr/products/metal-free-ceramics/ips-e.max-guarantee

[9] <https://pubmed.ncbi.nlm.nih.gov/39084921/>

[10] <https://pubmed.ncbi.nlm.nih.gov/30955942/>