

COAT BIBLIOGRAPHY

“Sleep physicians should consider prescription of COAT for patients with obstructive sleep apnea who are intolerant of CPAP therapy or prefer alternate therapy.”

American Academy of Sleep Medicine – Clinical Practice Guideline for the Treatment of Obstructive Sleep Apnea and Snoring with Oral Appliance Therapy: An Update for 2015.



NEW TECHNOLOGY

Determinants of Objective Compliance During Oral Appliance Therapy in Patients With Sleep-Related Disordered Breathing: A Prospective Clinical Trial
Dieltjens M, Verbruggen AE, Braem MJ, Wouters K, Verbraecken JA, De Backer WA, Hamans E, Van de Heyning PH, Vanderveken OM. *JAMA Otolaryngol Head Neck Surg.* 2015 Oct;141(10):894-900.
<http://www.ncbi.nlm.nih.gov/pubmed/26402736>

Objectively measured vs self-reported compliance during oral appliance therapy for sleep-disordered breathing

Dieltjens M, Braem MJ, Vroegop AV, Wouters K, Verbraecken JA, De Backer WA, Van de Heyning PH, Vanderveken OM. *Chest.* 2013 Nov;144(5):1495-502. doi: 10.1378/chest.13-0613.
<http://www.ncbi.nlm.nih.gov/pubmed/23928873>

Objective measurement of compliance during oral appliance therapy for sleep-disordered breathing.

Vanderveken OM, Dieltjens M, Wouters K, De Backer WA, Van de Heyning PH, Braem MJ. *Source, Department of Otolaryngology and Head and Neck Surgery, Antwerp University Hospital, Antwerp, Belgium. Thorax.* 2013 Jan;68(1):91-6. doi: 10.1136/thoraxjnl-2012-201900. Epub 2012 Sep 19.
<http://www.ncbi.nlm.nih.gov/pubmed/22993169>

Remotely controlled mandibular protrusion during sleep predicts therapeutic success with oral appliances in patients with obstructive sleep apnea.

Remmers J1, Charkhandeh S, Grosse J, Topor Z, Brant R, Santosham P, Bruehlmann S. *Sleep.* 2013 Oct 1;36(10):1517-25, 1525A.
<http://www.ncbi.nlm.nih.gov/pubmed/24082311>

Prediction of oral appliance treatment outcomes in obstructive sleep apnea: A systematic review

Kentaro Okuno*, Benjamin T. Pliska, Mona Hamoda, Alan A. Lowe, Fernanda R. Almeida. *Sleep Med Review* 2015 Dec 8;30:25-33.
<https://www.ncbi.nlm.nih.gov/pubmed/26773412>

The Use of Remotely Controlled Mandibular Positioner as a Predictive Screening Tool for Mandibular Advancement Device Therapy in Patients with Obstructive Sleep Apnea through Single-Night Progressive Titration of the Mandible: A Systematic Review

Chloé Kastoer, MD1,4; Marijke Dieltjens, MSc, PhD1,2,4; Eline Oorts, MD1; Evert Hamans, MD, PhD4; Marc J. Braem, DDS, PhD2,4; Paul H. Van de Heyning, MD, PhD1,3,4; Olivier M. Vanderveken, MD, PhD1,3,4 *J Clin Sleep Med.* 2016 Oct 15;12(10):1411-1421.
<https://www.ncbi.nlm.nih.gov/pubmed/27568892>

REVIEW ARTICLES

Mandibular advancement splint (MAS) therapy for obstructive sleep apnoea --an overview and quality assessment of systematic reviews

Johal A, Fleming PS, Manek S, Marinho VC. *Sleep Breath.* 2015 Sep;19(3):1101-8. doi: 10.1007/s11325-015-1148-4
<http://www.ncbi.nlm.nih.gov/pubmed/25778946>

Meta-analysis of randomised controlled trials of oral mandibular advancement devices and continuous positive airway pressure for obstructive sleep apnoea-hypopnoea

Linda Sharples, Abigail Clutterbuck-James, Matthew Glover, Maxine Bennett, Rebecca Chadwick, Marcus Pittman, Timothy Quinnell. *Sleep Med Review* 2015 May 30.
<http://www.ncbi.nlm.nih.gov/pubmed/26163056>

A crossover randomised controlled trial of oral mandibular advancement devices for obstructive sleep apnoea-hypopnoea

Timothy Quinnell, Maxine Bennett, Jake Jordan, Abigail Clutterbuck-James, Michael Davies, Ian Smith, Nicholas Oscroft, Marcus Pittman, Malcolm Cameron, Rebecca Chadwick, Mary Morrell, Matthew Glover, Julia Fox-Rushby, Linda Sharples. *Thorax* 2014 Oct;69(10): 938-45.
<https://www.ncbi.nlm.nih.gov/pubmed/25035126>

Oral Appliance Treatment for Obstructive Sleep Apnea: An Update

Sutherland K, Vanderveken O, Tsuda H, Marklund M, Gagnadoux F, Kushida C, Cistulli P, Source, *Journal of Clinical Sleep Medicine,* 2014 Feb 15;10(2):215-27
<http://www.ncbi.nlm.nih.gov/pubmed/24533007>

EVIDENCE FOR CLINICAL EFFICACY/PATIENT PREFERENCE

The Use of Oral Appliances in Obstructive Sleep Apnea: A Retrospective Cohort Study Spanning 14 Years of Private Practice Experience.

Mintz, S., Kovacs, R., *International Journal of the Science and Practice of Sleep Medicine, Sleep and Breathing.* November 13, 2018.
<https://doi.org/10.1007/s11325-018-1643-5>

Mandibular advancement splint as short-term alternative treatment in patients with obstructive sleep apnea already effectively treated with continuous positive airway pressure

Almeida FR1, Mulgrew A, Ayas N, Tsuda H, Lowe AA, Fox N, Harrison S, Fleetham JA. *J Clin Sleep Med.* 2013 Apr 15;9(4):319-24.
<http://www.ncbi.nlm.nih.gov/pubmed/23585745>



www.somnomed.com

EVIDENCE FOR CLINICAL EFFICACY / PATIENT PREFERENCE

Efficacy versus Effectiveness in the Treatment of Obstructive Sleep Apnea: CPAP and Oral Appliances

Kate Sutherland, PhD1,2; Craig L. Phillips, PhD1,2; Peter A. Cistulli, MD, PhD1
Journal of Dental Sleep Medicine. 2015; 2(4):175-181.
<http://www.jdsm.org/ViewArticle.aspx?pid=30229>

Patient preferences and experiences of CPAP and oral appliances for the treatment of obstructive sleep apnea: a qualitative analysis

Almeida FR1, Henrich N, Marra C, Lynd LD, Lowe AA, Tsuda H, Fleetham JA, Pliska B, Ayas N. Sleep Breath. 2013 May;17(2):659-66.
<http://www.ncbi.nlm.nih.gov/pubmed/22833346>

Long-term compliance and side effects of oral appliances used for the treatment of snoring and obstructive sleep apnea syndrome

de Almeida FR1, Lowe AA, Tsuiqi S, Otsuka R, Wong M, Fastlicht S, Ryan F. J Clin Sleep Med. 2005 Apr 15;1(2):143-52.
<http://www.ncbi.nlm.nih.gov/pubmed/17561628>

Dental appliance treatment for obstructive sleep apnea

Chan AS, Lee RW, Cistulli PA. Centre for Sleep Health and Research, Royal North Shore Hospital, St Leonards NSW 2065, Australia. CHEST. 2007 Aug; 132(2): 693-9.
<http://www.ncbi.nlm.nih.gov/pubmed/17699143>

Effect of jaw-opening exercise on prevention of temporomandibular disorders pain associated with oral appliance therapy in obstructive sleep apnea patients: A randomized, double-blind, placebo-controlled trial

Hiroyuki Ishiyama DDS, Shusuke Inukai DDS, PhD, Akira Nishiyama DDS, PhD, Masayuki Hideshima DDS, PhD, Shuhei Nakamura DDS, PhD, Meiyo Tamaoka, PhD, Yasunari Miyazaki MD, PhD, Kenji Fueki DDS, PhD, Noriyuki Wakabayashi DDS, PhD
Journal of Prosthodontics Research. 2017 July; 61(3): 259-67
<http://www.sciencedirect.com/science/article/pii/S1883195816301074>

Mandibular advancement appliances remain effective in lowering respiratory disturbance index for 2.5 - 4.5 years

Gauthier L1, Laberge L, Beaudry M, Laforte M, Rompré PH, Lavigne GJ., Sleep Med. 2011 Oct;12(9):844-9. doi: 10.1016/j.sleep.2011.05.004.
Epub 2011 Sep 16.
<http://www.ncbi.nlm.nih.gov/pubmed/21925942>

Mandibular Advancement Device as a Comparable Treatment to Nasal Continuous Positive Airway Pressure for Positional Obstructive Sleep Apnea

Yoshikazu Takaesu, PhD1; Satoru Tsuiqi, PhD2,4,5; Mina Kobayashi, PhD2,4; Yoko Komada, PhD2,3,4; Hideaki Nakayama, PhD6; Yuichi Inoue, PhD 2,3,4
J Clin Sleep Med. 2016 Aug 15; 12(8): 1113-9
<https://www.ncbi.nlm.nih.gov/pubmed/27250814>

EVIDENCE FOR IMPROVED CLINICAL OUTCOMES

Modulation of Inflammatory and Hemostatic Markers in Obstructive Sleep Apnea Patients Treated with Mandibular Advancement Splints: A Parallel, Controlled Trial

Nizankowska-Jedrzejczyk A1, Almeida FR2, Lowe AA2, Kania A3, Nastałek P3, Mejza F3, Foley JH4, Nizankowska-Mogilnicka E3, Undas A5. J Clin Sleep Med. 2014 Mar 15;10(3):255-62.
<http://www.ncbi.nlm.nih.gov/pubmed/24634622>

Health outcomes of continuous positive airway pressure versus oral appliance treatment for obstructive sleep apnea: a randomized controlled trial

Phillips CL1, Grunstein RR, Darendeliler MA, Mihailidou AS, Srinivasan VK, Yee BJ, Marks GB, Cistulli PA. Am J Respir Crit Care Med. 2013 Apr 15; 187(8):879-87.
<http://www.ncbi.nlm.nih.gov/pubmed/23413266>

Oral appliance therapy reduces blood pressure in obstructive sleep apnea: a randomized, controlled trial

Gotsopoulos H, Kelly JJ, Cistulli PA. Department of Respiratory & Sleep Medicine, St George Hospital, The University of New South Wales, Sydney Australia. Sleep. 2004 Aug 1;27(5):934-41.
<http://www.ncbi.nlm.nih.gov/pubmed/15453552>

Cardiovascular mortality in obstructive sleep apnea treated with continuous positive airway pressure or oral appliance: An observational study

Anandam A, Patil M, Akinnusi M, Jaoude P, El-Solh AA. Respiriology. 2013 Nov; 18(8): 1184-90.
<http://www.ncbi.nlm.nih.gov/pubmed/23731062>

Effects of treatment with oral appliance on 24-h blood pressure in patients with obstructive sleep apnea and hypertension: a randomized clinical trial

Andrén A1, Hedberg P, Walker-Engström ML, Wahlén P, Tegelberg A. Sleep Breath. 2013 May;17(2):705-12.
<http://www.ncbi.nlm.nih.gov/pubmed/22821223>

Alternatives to continuous positive airway pressure 2: mandibular advancement devices compared

Quinnell TG1, Clutterbuck-James AL. Curr Opin Pulm Med. 2014 Nov;20(6):595-600.
<http://www.ncbi.nlm.nih.gov/pubmed/25221854>

Mandibular Advancement device & CPAP upon cardiovascular parameters in OSA

Cibele Dal-Fabbro, Silvério Garbuio, Vânia D'Almeida, Fátima D. Cintra, Sergio Tufik, Lia Bittencourt. Sleep. 2014 January 26.
<http://www.ncbi.nlm.nih.gov/pubmed/24463982>

Effect of oral appliances on blood pressure in obstructive sleep apnea: a systematic review and meta-analysis

Iftikhar IH1, Hays ER, Iverson MA, Magalang UJ, Maas AK. J Clin Sleep Med. 2013 Feb 1;9(2):165-74.
<http://www.ncbi.nlm.nih.gov/pubmed/23372472>

Effect of oral appliance therapy on neurobehavioral functioning in obstructive sleep apnea: a randomized controlled trial

Naismith SL1, Winter VR, Hickie IB, Cistulli PA. J Clin Sleep Med. 2005 Oct 15;1(4):374-80.
<http://www.ncbi.nlm.nih.gov/pubmed/17564405>

Improvement of Cognitive and Psychomotor Performance in Patients with Mild to Moderate Obstructive Sleep Apnea Treated with Mandibular Advancement Device: A Prospective 1-Year Study

Tea Galic, DMD1; Josko Bozic, MD2; Renata Pecotic, MD, PhD3,4; Natalija Ivkovic, MSc, RN3; Maja Valic, MD, PhD 3,4; Zoran Dogas MD, PhD 3,4
J Clin Sleep Med. 2016 Feb;12(2):177-86.
<https://www.ncbi.nlm.nih.gov/pubmed/26414974>

CPAP vs Mandibular Advancement Devices and Blood Pressure in Patients With Obstructive Sleep Apnea: A Systematic Review and Meta-analysis

Bratton DJ, Gaisl T, Wons AM, Kohler M. JAMA. 2015 Dec 1;314(21):2280-93
<http://www.ncbi.nlm.nih.gov/pubmed/26624827>

Comparison of effects of OSA treatment by MAD and by CPAP on cardiac autonomic function during daytime

Glos M, Penzel T, Schoebel C, Nitzsche GR, Zimmermann S, Rudolph C, Blau A, Baumann G, Jost-Brinkmann PG, Rautengarten S, Meier JC, Peroz I, Fietze I. Sleep Breath. 2016 May;20(2):635-46
<http://www.ncbi.nlm.nih.gov/pubmed/26463420>