



maxillo mandibular advancement and apnea results



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Effectiveness of maxillo-mandibular advancement in obstructive sleep apnea patients with and without skeletal anomalies

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PMID: 20434311 DOI: 10.1016/j.ijom.2010.03.006

Abstract

This study evaluates the effectiveness of maxillo-mandibular advancement (MMA) in patients with obstructive sleep apnea syndrome (OSAS), even those without skeletal anomalies, indicating the possibility of extending this procedure to more patients. Two groups with different skeletal patterns were studied pre- and post-surgery. Group 1 (11 patients) had severe or moderate OSAS and maxillo-mandibular hypoplasia and/or mandibular deformities (SNA angle 78 degrees or less or SNA angle>78 degrees but with SNB<65 degrees and severe skeletal class II malocclusion). Group 2 (11 patients) had severe or moderate OSAS without maxillo-mandibular hypoplasia or deformity (SNA angle>80 degrees, dental class I occlusion). Analysis comprised: apnea hypopnea index (AHI), posterior airway space (PAS), SNA and SNB angles, Epworth sleepiness scale (ESS), body mass index (BMI), and a subjective standardized questionnaire about aesthetic appearance. All patients had increased PAS width and complete remission of objective and subjective OSAS symptoms evaluated by AHI and ESS. Results in both groups are comparable. Data were analysed using t-test; p<0.005 was statistically significant. All patients were satisfied with the functional and aesthetic results. MMA is effective in patients with severe or moderate OSAS, even in those without skeletal and/or occlusal anomalies and can be considered in more patients.

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Int J Oral Maxillofac Surg. 2012 Sep;41(9):1112-9. doi: 10.1016/j.ijom.2012.03.011. Epub 2012 Apr 13.

PMID: 22503563

[Which cephalometric analysis for maxillo-mandibular surgery in patients with obstructive sleep apnoea syndrome?](#)

Brevi B, Di Blasio A, Di Blasio C, Piazza F, D'Ascanio L, Sesenna E.

Acta Otorhinolaryngol Ital. 2015 Oct;35(5):332-7. doi: 10.14639/0392-100X-415.

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Goodday RH, Bourque SE, Edwards PB.

J Oral Maxillofac Surg. 2016 Mar;74(3):583-9. doi: 10.1016/j.joms.2015.07.016. Epub 2015 Jul 26.

PMID: 26272004

[Soft tissue changes after maxillo-mandibular advancement in OSAS patients: a three-dimensional study.](#)

Gerbino G, Bianchi FA, Verzé L, Ramieri G.

J Craniomaxillofac Surg. 2014 Jan;42(1):66-72. doi: 10.1016/j.jcms.2013.02.004. Epub 2013 Mar 19.

PMID: 23517814

[The status of cephalometry in the prediction of non-CPAP treatment outcome in obstructive sleep apnea patients.](#)

Denolf PL, Vanderveken OM, Marklund ME, Braem MJ.

Sleep Med Rev. 2016 Jun;27:56-73. doi: 10.1016/j.smrv.2015.05.009. Epub 2015 Jun 9.

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Sci Rep. 2018 Apr 10;8(1):5756. doi: 10.1038/s41598-018-24142-3.

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De Oliveira DL, Calcagnotto T, Vago TM, Filho HN, Valarelli DP, Bellato CP.

Ann Maxillofac Surg. 2017 Jul-Dec;7(2):256-259. doi: 10.4103/ams.ams_136_17.

PMID: 29264295 [Free PMC article.](#)

[Maxillomandibular advancement in obstructive sleep apnea syndrome patients: a retrospective study on the sagittal cephalometric variables.](#)

Ronchi P, Cinquini V, Ambrosoli A, Caprioglio A.

J Oral Maxillofac Res. 2013 Jul 1;4(2):e5. doi: 10.5037/jomr.2013.4205.

PMID: 24422033 [Free PMC article.](#) [Review.](#)

[Closure of anterior open bites with mandibular surgery: advantages and disadvantages of this approach.](#)

Van Sickels JE, Wallender A.

Oral Maxillofac Surg. 2012 Dec;16(4):361-7. doi: 10.1007/s10006-012-0361-6. Epub 2012 Sep 4.

PMID: 22945345

[Pycnodysostosis with extreme sleep apnea: a possible alternative to tracheotomy.](#)

Della Marca G, Scarano E, Leoni C, Dittoni S, Losurdo A, Testani E, Colicchio S, Gnoni V, Vollono C, Zampino G.

Sleep Breath. 2012 Mar;16(1):5-10. doi: 10.1007/s11325-010-0479-4. Epub 2011 Jan 14.

PMID: 21234691

MeSH terms

- > Adult
- > Cephalometry
- > Chin / surgery
- > Female
- > Humans
- > Jaw Fixation Techniques / instrumentation
- > Male
- > Malocclusion, Angle Class II / complications
- > Malocclusion, Angle Class II / surgery
- > Mandibular Advancement*
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Efficacy and tolerability of a custom-made Narval **mandibular** repositioning device for the treatment of obstructive sleep **apnea**: ORCADES study 2-year follow-up data.

Attali V, et al. Sleep Med. 2019. PMID: 20434311

OBJECTIVE/BACKGROUND: **Mandibular** repositioning device (MRD)

therapy is an alternative to continuous positive airway pressure (CPAP).

...

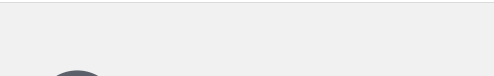
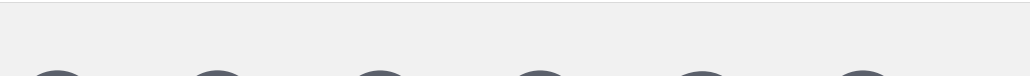
Long-term effectiveness and side effects of **mandibular advancement** devices on dental and skeletal parameters.

Vigié du Cayla G, et al. J Stomatol Oral Maxillofac Surg. 2019.

PMID: 20434311 [Free article.](#)

RESULTS: Mandibular advancement devices were used for more than

2 years (3.9 ± 1.9 years). We observed a statistically ...



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