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Manuscript NO: 59848

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**Changes in sleep parameters following biomimetic oral appliance therapy: A case report**

Singh GD *et al.* Sleep changes-biomimetic oral appliance therapy

G. Dave Singh, Shamshudin Kherani

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**Biomimetic oral appliance therapy** (BOAT) was also shown to have beneficial effects in adults with mild, moderate and even **severe obstructive sleep apnea** [14,15]. But, in addition, this non-surgical, pain-free technique, which does not use drugs or injections, may have other effects, such as improving facial appearance.

## Changes in pneumatization of the maxillary air sinuses in ...

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Oct 19, 2020 · Objective. For the treatment of **obstructive sleep apnea** in adults, mandibular advancement devices (MADs) are often used. Since adults with a prognathic mandibular phenotype are at risk of developing an unfavorable facial profile, midfacial development using **biomimetic oral appliance therapy** might provide a suitable alternative.

**Author:** G. Dave Singh, Hee Nam Kim **Publish Year:** 2020

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method of managing adults diagnosed with obstructive **sleep** apnea, using **biomimetic, oral appliances**. Keywords: Maxillary expansion, Palatal expansion, Adult, **Biomimetic appliance**. How to cite this article: Singh GD, Heit T, Preble D. **Changes** in 3D Midfacial **Parameters** after **Biomimetic Oral Appliance Therapy** in Adults.

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**After** 10 months of combined continuous positive airway pressure **therapy** and **biomimetic oral appliance therapy**, the apnea-hypopnea index fell to 1 hr<sup>-1</sup> and obstructive **sleep** apnea could not be ...

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Surgical reduction of the mandibular tori **followed** by **biomimetic oral appliance therapy** (BOAT) was initiated. After 14 months, a post-treatment CBCT scan revealed that 70% of parameters measured had improved. Therefore, another sleep study was performed with no device in the mouth. This follow-up home sleep test demonstrated that the AHI fell to 5.3hr<sup>-1</sup>hr, with 27% REM sleep, and a mean SpO2 ...

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### (PDF) Biomimetic Oral Appliance Therapy in Adults with ...

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Methods: In this **case report**, we used **biomimetic oral appliance therapy** to address **sleep** bruxism by redeveloping the maxilla and repositioning the mandible in a 17 yr. old, female patient.

### [PDF] Journal of Sleep Disorders & Therapy

<wholehealthdentalcenter.com/wp...of-sleep-bruxism.pdf>

**case report**, we used **biomimetic oral appliance therapy** to address **sleep** bruxism by redeveloping the maxilla and repositioning the mandible in a 17 yr. old, female patient. Results: The upper airway volume increased by 313% (from 7.7 cm<sup>3</sup> ...