Mandibular advancement appliances to treat apnea: an update of the most used currently. A systematic review and meta-analysis

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Review question / Objective: Mandibular advancement devices used to treat obstructive sleep apnea.
Condition being studied: Obstructive sleep apnea is characterized by episodes of a complete (apnea) or partial collapse (hypopnea) of the upper airway with an associated decrease in oxygen saturation or arousal from sleep. This disturbance results in fragmented, nonrestorative sleep. Other symptoms include loud, disruptive snoring, witnessed apneas during sleep, and excessive daytime sleepiness. OSA has significant implications for cardiovascular health, mental illness, quality of life, and driving safety.

Methods
Participant or population: Patients submitted to mandibular displacement

INTRODUCTION

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appliances to treat obstructive sleep apnea.

**Intervention:** Mandibular displacement appliances to treat obstructive sleep apnea.

**Comparator:** Not applicable.

**Study designs to be included:** Randomized Clinical Trials.

**Eligibility criteria:** Randomized Clinical Trials.

**Information sources:** An electronic research was made in the following websites: Scopus, WOS y Cochrane.

**Main outcome(s):** Ongoing.

**Quality assessment / Risk of bias analysis:** The quality assessment was performed through JADAD scale.

**Strategy of data synthesis:** Data related to snoring and efficiency sleeping and apnea/hypoapnea index were registered and recorded.

**Subgroup analysis:** Not applicable.

**Sensitivity analysis:** Not applicable.

**Country(ies) involved:** Spain.

**Keywords:** mandibular advancement, devices, protrusion, apnea, appliance.

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