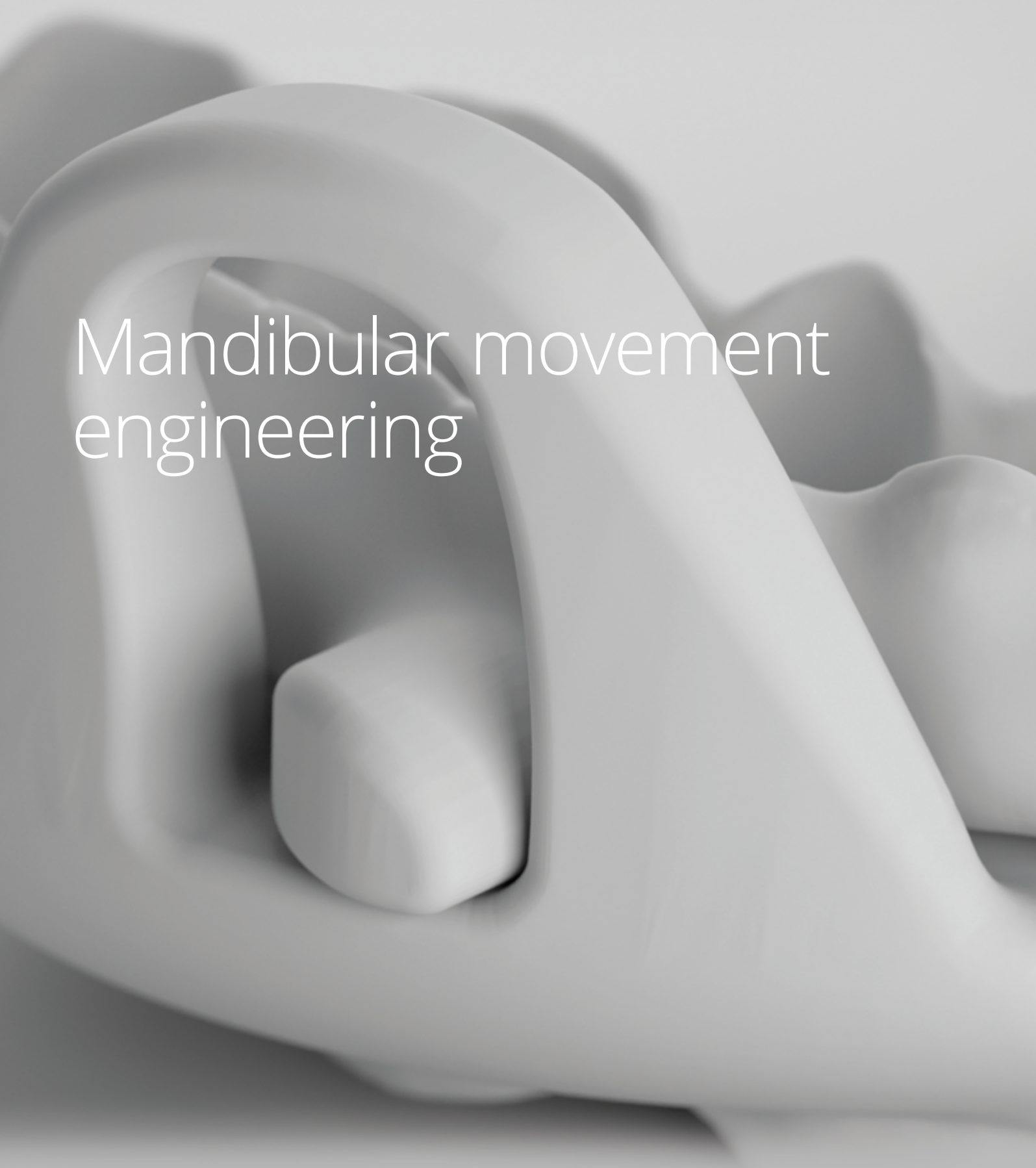


# Mandibular movement engineering



# OrthoApnea NOA



## Experts in mandibular movement engineering

OrthoApnea NOA is the most developed Mandibular Advancement Device in the market. A unique MAD completely manufactured in a digital and personalized environment in relation to the mandibular biomechanics of each patient, which increases its efficiency and comfort.

A clinically proven solution to treat Obstructive Sleep Apnea (OSA) and Snoring, composed by two individual splints which hold the jaw in a controlled forward position in order to facilitate breathing during the sleep.

The mandibular advancement is performed in a progressive and controlled way through the exchange of the lower splints. The titration sequence is predefined by the Dentist.

ORTHOAPNEA NOA IS INDICATED TO:

- Patients suffering from mild to moderate OSA.
- Patients suffering from severe OSA intolerance to other treatments.
- Snoring Patients.

## TREATMENT EXAMPLE



Lower Splint -1

Upper Splint  
SP Lower Splint

Lower Splint +1

Lower Splint +2

# Properties



## Resistance

The device will resist mouth forces and other impacts.

## Smoothing

The smoothed surface of the device allows us to maintain the original colour, avoiding the accumulation of bacterial plaque and the alterations caused by the passage of time.

## Comfort

The material properties provide lightness and flexibility to the device in order to obtain more comfort and favor its use during the hours of sleep.

## Material

Made of Polyamide 12 (Polyalurinlactam, CAS No 25038-74-8), also known as Nylon splints. The material is certified with Class IIa biocompatibility.

# Customization

OrthoApnea NOA allows a total customization of the device to adapt it to the clinical needs of each patient.

THE FOLLOWING FEATURES CAN BE CONFIGURED BY THE DENTIST.



Opening limitation



Frontal forward opening



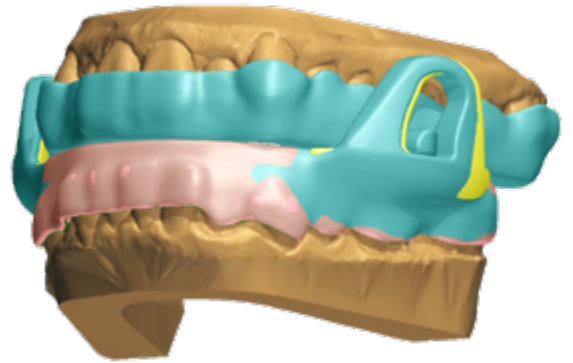
Laterality



Vertical dimension

# Technology

CAD/CAM technology helps us to produce customized devices with precision and high quality standards



## CAD process

Design aided by computer

The CAD process allows us to simulate the arthrokinematics movements, calculate the occlusal distribution forces and evaluate in 3D the morphology of every patient. This technology leads us to qualitative improvement in the design and personalization of the OrthoApnea NOA.

## CAM process

Manufactured by 3D printing

OrthoApnea NOA is manufactured through a digital process by 3D printing. We count with multiple industrial printers that guarantee high precision and accelerate the production times of the device.

# ApneaDock

An online platform for treatments management

Apneadock is a powerful tool that improves the workflow, tracking and treatment management.

The platform has been developed by a team of OrthoApnea engineers together with dentistry professionals. It allows the user of Apneadock to conduct from a subjective assessment of sleep patient, treatment request and monitoring of every patient's case in an intuitive and centralized way.

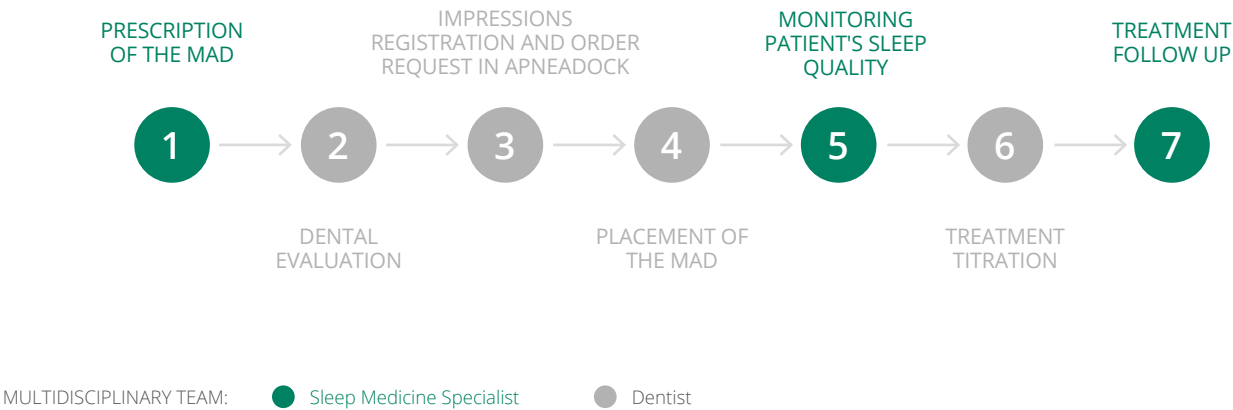
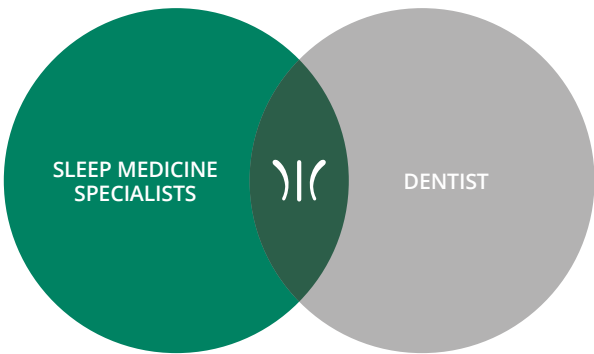
[WWW.APNEADOCK.COM](http://WWW.APNEADOCK.COM)



# The solution for a multidisciplinary treatment

OrthoApnea encourages the multidisciplinary collaboration between Sleep Medicine Specialists and Dentists for the treatment with Mandibular Advancement Devices (MAD)

The success of a treatment with MAD consists in an assessment and treatment performed by qualified professionals in Sleep Medicine. It is essential that these specialists are integrated in a Sleep Unit in order to offer patients the most appropriate treatment in each case.



## Patient

The use of OrthoApnea NOA leads to the success of the treatment.

Most of the patients using the device stopped snoring. Their Apnea-Hypopnea Index (AHI) has reduced in all cases in our clinical studies, contributing this way to a restful sleep and a better quality of life for patients.



93.5% of patients have seen reduced their AHI by 50% or more\*



67.7% of the patients have seen reduced their AHI by 75% or more\*

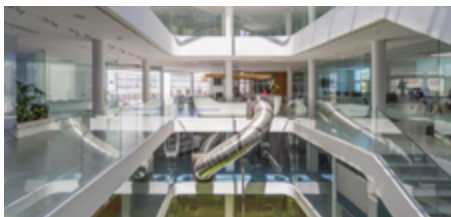


52% of the patients have seen reduced their AHI below 5 events per hour\*



\*Reference: Efficacy and tolerability of OrthoApnea NOA mandibular advancement device for the treatment of obstructive sleep apnea. Pedro Mayoral. DDS, MS, PhD. Master Program of Dental Sleep Medicine, Catholic University of Murcia, Spain. Manuel Lagraverre. DDS, MS, PhD. Faculty of Medicine and Dentistry, School of Dentistry, University of Alberta, Canada.





# Innovation, quality and efficiency

15 years of experience in scientific development of sleep appliances

We count with the certifications that guarantee its worldwide distribution

OrthoApnea is a global company that establishes its activity in the field of science and biomedical technology. It is specialized in developing, producing and distributing MADs for the treatment of Obstructive Sleep Apnea (OSA).

We are committed to the constant innovation of our treatment proposal, guaranteeing the highest quality in accordance with the global scientific advances and always looking to increase efficiency and shortening delivery times as much as possible.

## MEDICAL CERTIFICATIONS

- OrthoApnea operates under the European directive 93/42/CEE for medical devices.
- OrthoApnea is certified in the management system of the quality of medical devices according to EN ISO 13485.
- CE Certificate.
- FDA Certificate (K202651).



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