



Clinical Use Protocol

)|(OrthoApnea

(+34) 951 20 43 34
Flauta Mágica 22
29006 Málaga, ES

info@orthoapnea.com
www.orthoapnea.com

Introduction

This Clinical Use Protocol contains the necessary information to request OrthoApnea mandibular advancement devices (MAD).

In this protocol you will find:

- How to take registers.
- How to request the treatment in Apneadock.

Mandibular advancement devices are suitable for patients that suffer from mild to moderate obstructive sleep apnea. It can be recommended to patients who seriously suffer from this condition and are intolerant to other treatments. They're also suitable for snorers.

It's not advisable to use the product if the patient suffers from central sleep apnea, other respiratory diseases, advanced periodontal problems or is under 18 years old.

Index

Impression taking

1. Dental registration	2. Measurements	3. Bite registration
Silicone 5	Maximum retrusion 7	Silicone 9
Digital 6	Maximum protrusion 7	Intraoral scanner 10
	Starting Point 8	

Treatment request

Request the treatment in Apneadock 12
Clinic worksheet 13



Protocol

Impression taking



1. Dental registration Silicone

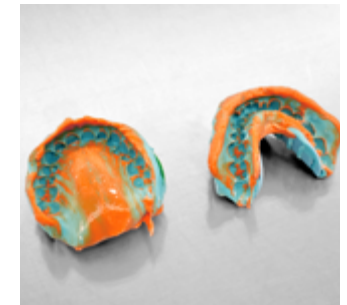
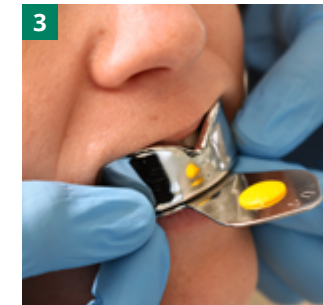
Upper and lower dental arch registration

The registration is taken with heavy and light silicone in just one step. Do not use alginate under any circumstances.

Impressions will be emptied in plaster and digitised in OrthoApnea.

Follow these steps:

1. Add heavy and light silicone onto the cuvettes.
2. Register the lower arch
3. Register the upper arch



Result of impressions.

1. Dental registration

Digital

Upper and lower dental arch registration

Registration of upper and lower arches:

The registration is taken with an intraoral scanner. Follow the specific instructions of your scanner:

1. Scan the occlusal surface.
2. Lingual/palatine scanning.
3. Vestibular scanning, scan the previous area in zigzag mode up to the incisive occlusal edge.



Result of digital registration.

2. Measurements

Maximum retrusion

Maximum protrusion



Adjust the gap gauge to the lower central incisors (The incisal cusp should come into contact with the bottom of the cleft).

Attach the gauge screw.



Place the gauge combination into the patient's mouth.

Make sure the upper arches midline coincides with the fork mark.

Make sure the upper central incisors touch the bottom of the cleft.



Guide the patient to slide their jaw from a centric position to a maximum retrusive and protrusive position.

It's recommended to repeat it 3 times and take note of the highest obtained value for the maximum retrusion and protrusion.

Any measurement device can be used to measure the maximum retrusion and protrusion. In this case, the George gauge is being used to detail the procedure.



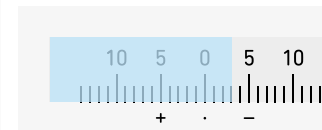
Maximum retrusion

The jaw moves backwards from the centric position.

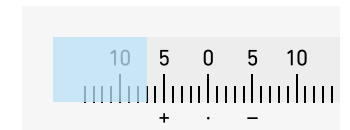


Maximum protrusion

The jaw moves forward from the centric position.



Example:
Maximum retrusion -3.



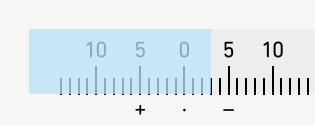
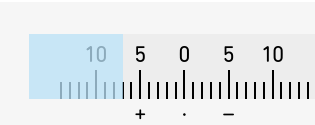
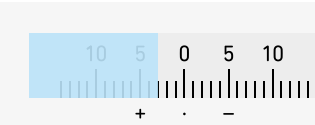
Example:
Maximum protrusion +7.

2. Measurements Starting Point (SP)

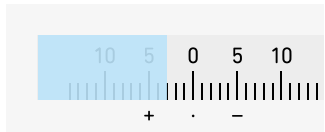
Calculation of the SP and George gauge configuration

The Starting Point is the mandibular advancement therapeutic position where the treatment starts. The bite is registered in this position.

Scientific bibliography recommends the use of an advancement therapeutic position between 60% and 70% (AP) of the Total Advancement Range (TR).

George gauge configuration	Calculation	Example
MAXIMUM RETRUSION MEASUREMENT MR		MR = -3 mm 
MAXIMUM PROTRUSION MEASUREMENT MP		MP = +7 mm 
CALCULATION OF THE TOTAL MANDIBULAR ADVANCEMENT RANGE TR	$TR = MP - MR$	$TR = +7 - (-3) = +7 + 3 = 10 \text{ mm}$
ADVANCEMENT PERCENTAGE AP		AP = 60%
STARTING POINT CALCULATION SP	$SP = TR \times AP / 100$	$SP = 10 \times 60 / 100 = 6 \text{ mm}$
SP CONFIGURATION ON THE GAUGE	$MR + SP$	$-3 + 6 = +3 \text{ mm}$ 

3. Bite registration Silicone



The calculated SP is used to configure the gauge in an advancement therapeutic position. Attach the 5mm fork with the upper screw.

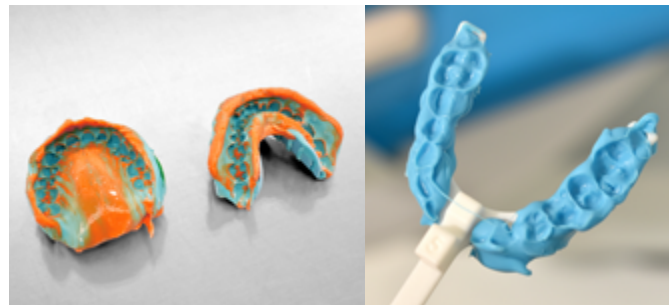
Introduce the gauge in the mouth (without the biting silicone).
Make sure the incisors fit the gap and that the midline is centred.

Apply the biting silicone between the gauge and the teeth occlusive side.

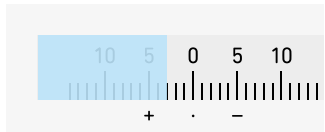
If the George gauge isn't being used, make sure there's a minimum 3mm distance between the molars cusps.

Delivery using silicone method.

Deliver the dental arches registrations and the fork with the bite registration (without the gauge) to OrthoApnea or to your countries distributor.



3. Bite registration Digital



Introduce the gauge in the mouth (without biting material).
Make sure the incisors fit the gap and that the midline is centred.



Apply the biting silicone between the gauge and the teeth occlusive side.



Avoid silicone accumulation in the vestibular area of both arches to facilitate dental recognition while scanning. The silicone hidden behind the vestibular side can be removed with a scalpel as long as the occlusive side has properly marked teeth.



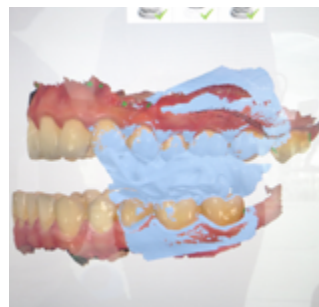
Scan the bite.

If the George gauge isn't being used, make sure there's a minimum 3mm distance between the molars cusps.

Delivery using an intraoral scanner

Send the files through the communication scanning platform or through [Apneadock.com](https://www.apneadock.com).

*Connect your intraoral scanner to [OrthoApnea](https://www.orthoapnea.com) (scan@orthoapnea.com)





Protocol

Treatment request

Treatment request through Apneadock

The treatment request is made through the Apneadock platform.

It's an online platform that allows you to request the patient's treatment with flexibility and digitally.

It will allow access to treatment information and facilitate contact with OrthoApneas technical staff directly.

Registration in Apneadock

1. Go to www.apneadock.com
2. Click "register" and fill out the form.
3. After following the previous steps, check your inbox and validate the email to continue.

Account configuration

1. Go to www.apneadock.com
2. Log in with your username and password.
3. Configure the account in "My profile"
4. Create a "New clinic" filling out the form.
5. Create a new billing address "Billing". Insert the tax legal number or the name you desire to bill with.
 - If you already work with any of the Ortoplus divisions (Ortoplus Laboratory or/and Alineadent), check your invoice email to validate your account.
 - If you've never worked with OrthoApnea or any other Ortoplus division, you must fill out all the required fields.

Treatment creation.

1. Go to the left side menu and click on "My treatments".
2. Click on "New request". It can be found on the right top corner. To continue, you must "Accept" the platform's "Conditions of use" relating to "Data protection".
3. Fill out the patient's information.
4. Inside the patient's file click on "New request".
 - Choose where you desire to have the bill and the device sent.
 - Choose the device.
 - Fill out the construction details (optional)
 - Select the impression method: using silicone or a digital scanner. Choose the delivery.
5. Confirm the device request.

Contact us for more information:
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