



OrthobruX

Biocompatible Resin

OrthoBrux is a custom-designed intraoral device tailored to the dental arches of each patient. The splint can be designed to fit either the upper or lower arch.

It is crafted with the impression of the antagonist arch to maintain the jaw in a resting position. Additionally, it can incorporate guides to facilitate the lateral and forward movements that the patient unconsciously performs. The accumulated jaw tension can cause the muscles of the craniomandibular complex to suffer, leading to pain or joint abnormalities. Dental wear may also occur due to involuntary jaw movements (bruxism) resulting from muscle tension and/or stress.

OrthoBrux's function is to prevent muscle tension so that the muscles and joints do not undergo stress. Furthermore, it is responsible for absorbing forces and protecting against dental contact to prevent wear and damage to dental structures.

The device is manufactured using a process involving planning, design, and 3D printing (CAD/CAM). Biocompatible resin is used in its fabrication (composed of: 2-phenoxyethyl methacrylate, CAS: 10595-06-9; Isobornyl methacrylate, CAS: 7534-94-3; 2-hydroxyethyl methacrylate, CAS: 868-77-9; TPO, CAS: 75980-60-8), a lightweight and high-strength material certified as biocompatible Class IIa.

Indications

There are various types of splints that, based on their design, can help address different dental and jaw problems. Some of the most common indications include:

- Preventing dental wear during sleep.
- Reducing or eliminating jaw pain.
- Treating certain issues related to the meniscus/disc of the temporomandibular joint (TMJ).

Contraindications

Occlusal splints may be contraindicated in pediatric patients as they can limit or alter craniofacial growth. Their use may also be limited or contraindicated in patients with severe periodontal (gum) problems or those with the absence of many teeth.

Features OrthoBrux

High Resistance

The splint exhibits high resistance to the forces within the oral cavity, as well as resistance to falls and impacts.

Thickness

The splint is designed with a thickness of 1.2 mm, promoting the reduction of the vertical dimension.

Comfort

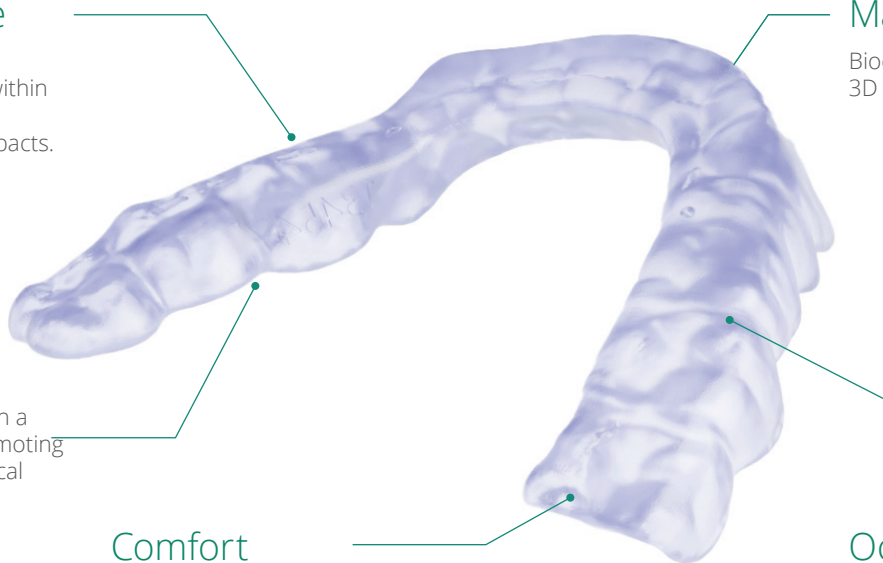
The design and adaptability of the material make the device very comfortable during use.

Material

Biocompatible Class IIa 3D Printing Resin

Occlusal Contact

The splint provides good occlusal contact properties and smooth sliding in case of movements.



Configuration



Upper



Lower

Design



Flat Splint



Canine Guidance



Canine and Anterior Guidance

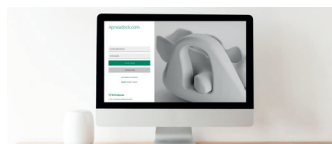
OrthoApnea Workflow



1. Impression Taking

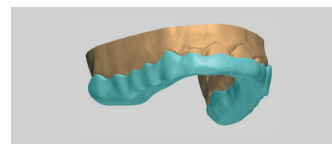
Take impressions or intraoral scans of both the upper and lower dental arches.

Capture the bite registration in the resting position with a minimum cusp-to-cusp separation of 1.5 mm.



2. Treatment Request

Visit www.apneadock.com and request the treatment.



3. Manufacturing and Shipping

The device is designed and manufactured through a CAD/CAM process based on the impressions and the treatment request made on Apneadock.

After thorough quality control, the device is shipped to the clinic.