Mouth breathing causing growth, health and orthodontic problems

Children who breathe through their mouth are most likely to have experienced poor jaw development during their growth years, which leads to crowded teeth and orthodontic problems.

Traditionally, orthodontists would wait until all the permanent teeth are present and align the teeth with braces. This approach often begins to relapse as soon as the completion of treatment, even if retainers are used for life. The medical profession now recognises that these patients also have sleep disorders, which cause many health problems later in life.

Recognising Breathing Disordered Sleep - BDS

- Chronic mouth breathing and open mouth posture
- Snoring more often than once per week
- Noisy breathing during the day
- Restless sleep most of the time
- Waking up many times at night
- Fatigue in the morning
- Poor attention at school
- Stopping breathing at night
- Underdeveloped upper jaw and retruded lower jaw.

Although you may have brought your child to the Dentist to have their orthodontic problems evaluated, the treating Dentist may have diagnosed more serious breathing disorders.

The Myobrace® system

The Myobrace® for Kids (K series) is a three stage myofunctional orthodontic system for the growing child to assist in the correction of detrimental breathing and oral habits (tongue, lips and swallowing) to allow correct jaw growth and naturally straight teeth, often without the need for braces.

Correction of mouth breathing is the fundamental first step in the Myobrace® treatment process. If children show signs of the medical condition known as Breathing Disordered Sleep (BDS), the priority is to establish a functional airway first. The Myobrace® K0 is an additional appliance to be used initially to assist your child in unrestricted breathing during the day and night. An ENT referral is often needed as well if the obstruction originates from the tonsils and/or adenoids.

Cleaning your Myobrace®: Clean your Myobrace® appliance under warm running water every time you remove it from your mouth. Use Myoclean™ tablets to correctly clean twice every week. Ask your doctor or dental therapist about Myoclean™, the recommended cleaning agent for all Myobrace® appliances.

CAUTION: USE ONLY UNDER THE SUPERVISION OF A LICENSED ORTHODONTIST OR DENTIST

Myobrace® by Myofunctional Research Co. Myofunctional Research Co. Ltd. Ovingdean East Sussex U.K. EN3 4TL Australia USA Representative: Myofunctional Research Co. USA 5227 Charles Smith Avenue, Rancho Cucamonga CA 91730 USA Tel: (866) 550 4696

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Lifetime use: 6 months based on everyday wear. Replace after 12 months regardless of wear time.

Transitioning from mouth to nose breathing.
**Myobrace® for Kids with dysfunctional breathing**

Children who are evaluated by a Myobrace® practitioner are screened for possible sleep disorders. This is now a directive from the World Dental Federation (FDI), the American Dental Association (ADA) and American Association of Orthodontists (AAO).

While MRC has developed the Myobrace® system to promote jaw growth and naturally align teeth, it has always included evaluation of breathing as a priority and the first treatment goal.

Children who have more severe breathing and sleep-related symptoms may have a restriction of their airway or, more commonly, an easily collapsible airway.

The K0 has a unique feature which allows mouth breathing and aids in the transition to nose breathing during the day and over time, at night. It also improves the airway during sleep while still allowing mouth breathing, which is an essential feature for children with sleep disorders. Treatment time with the Myobrace® K0 varies based on the severity of the problem and the child’s biological adaptability to correct their breathing and myofunctional dysfunction.

Treatment success with the K0 will mean airway function and correct breathing are established and progression to the Myobrace® K1 appliance is achieved without restricting the airway. In addition, Myotalea® (active myofunctional appliance) can be used to strengthen the lips and tongue while also treating muscles to improve airway function.

**Myobrace® for Kids - unique design features**

The Myobrace® K0 is a new appliance specially designed for the mouth breathing child who shows signs and symptoms of Breathing Disordered Sleep - BDS. The K0 has specific design features to:

- Open the airway to facilitate better breathing
- Transition from mouth to nose breathing
- Correct tongue resting position and improve tongue strength
- Improve retention for patients who are chronic mouth breathers

**Directions for use:**

The K0 is to be used prior to the Myobrace® K1 and is initially used as a daytime only appliance to allow mouth breathing. However, when closing down on the front MYOVOSA® hole, breathing is transitioned to the nose. When the child feels they need to breathe through the mouth, they simply stop biting down and the MYOVOSA® aperture opens to allow mouth breathing. Repeat this step during the 1-hour daily use for 1-2 weeks and wear during the night while sleeping. Mouth breathing will be unrestricted at night and the airway will be kept open by holding the lower jaw forward as the thicker base opens the airway. The tongue tag encourages the tongue to rest forward out of the airway.

1. Active tongue tag to exercise the tongue muscles.
2. Tongue elevator raises tongue to correct position.
3. Mouth breathing aperture with MYOVOSA®.
4. Lip bumpers retrain the lip muscles to stop jaw being pushed back into the airway.
5. Thicker base over the back teeth to open the airway.

**MYOVOSA® Variable Opening Sleep Appliance**

Step 1 – Place the Myobrace® into your mouth.

Tongue press exercise
- To assist in improving tongue position and strength, push up on the tongue tag and hold for three breaths, then relax.

Step 2 – Position your tongue on the tongue tag.

Do not chew on your Myobrace®!

Step 3 – Close down to transition to nose breathing.

Tongue Press Exercise
- til the head back and complete the Tongue Press Exercise.

Head Tilt Variation
- tilt the head back and complete the Tongue Press Exercise.