

CONTRIBUTE TO A MULTIDISCIPLINARY TEAM IN SLEEP-RELATED BREATHING DISORDERS PREVENTION? - CASE REPORT.

Denise Fernandes Barbosa MD¹, Fausto Berzin MD, PHD² - ¹DFB & Associados Ltda, ²FOP-UNICAMP - E-mail: denise.sono@gmail.com

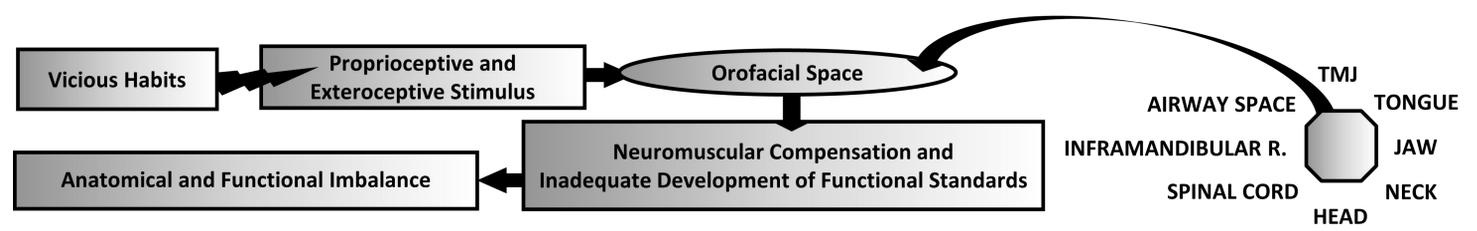
INTRODUCTION:

Sleep Related Breathing Disorders (SRBD) in children is a frequent disease for which optimal diagnostic methods are still being defined. Habitual snoring has been common parent complaints at pediatric dental practice. Some patients with this complaint can present narrow maxilla and mouth breathing related to respiratory allergy. Treatment of SRBD in children should include improvement in upper airway space and craniofacial growth, resolving respiratory symptoms and preventing the development of the disease in the adult years.



The mouth is a peripheral projection of the central nervous system, which provides somatosensory sensitivity and motor activity. The fundamental principles of FJO-NOR are neuromuscular excitation, posture change and therapeutic posture change. The stimulus used in FJO-NOR can guide the stomatognathic system growth and development, modeling and remodeling bone with muscular dynamics, both in quantity and direction, following oral functions balance.

- FJO-NOR works with 4 natural forces:
- ✓ Growth and development
 - ✓ Dental eruption
 - ✓ Tongue and jaw position
 - ✓ Tongue and jaw posture



In this way, timely intervention in child is necessary for reestablish neuromuscular patterns without prejudice to growth and development, restoring functional patterns when it is altered by vicious habits.

OBJECTIVE:

The aim of this study is to demonstrate how FJO-NOR can contribute to a multidisciplinary team for SRBD prevention.

MATERIAL AND METHODS:

7 years old male patient
Mother complaint:

- ✓ Respiratory Allergy
- ✓ Mouth Breathing
- ✓ Habitual Snoring

Clinical examination:

- ✓ Mixed dentition, Dental class II, Dental open bite, Overjet and Lack dental space

Cephalometric analysis:

- ✓ Skeletal open bite and overjet
- ✓ Narrow airway space

Treatment:

- ✓ 3 kinds of FJO appliances
- ✓ SN3 (Simões Network 3)
- ✓ PICT (Planas Indirect Compound Tracks)
- ✓ PIST (Planas Indirect Simple Tracks)
- ✓ Planas Direct Tracks

Multidisciplinary Team:

- ✓ Otorhinolaryngologist → Resp. allergy
- ✓ Physiotherapy → Nasal breathing

RESULTS:

The results of 6 years and a half treatment and 21 years follow-up were registered. The initial mother complaints were solved: habitual snoring was remised, and nasal breathing was reestablished.

13 years and 6 month

- ✓ Permanent dentition
- ✓ Improvement in dental arcs

28 years and 5 month

- ✓ Class I – Normal bite
- ✓ Lip sealing

Teleradiographs in tree growth stages:
7y, 13y6m, 28y5m

- ✓ Improvement in maxillary arcs growth
- ✓ Redirection of mandibular growth in reduction of goniac angle and structural open bite
- ✓ Increase in posterior air space

TEACHING POINTS:

- ✓ In this case report FJO-NOR contributed to a multidisciplinary team in SRBD prevention
- ✓ Objective data related to SRBD should be performed in FJO-NOR treatment to optimal diagnostic methods and criteria
- ✓ Timely treatment and stability are necessary intervening in the parts, verifying the causes, defining the effects and changes, aiming to establish functional balance