Intraoral Balancing Appliance for balancing the TMJ

Intraoral Balancing Appliance

Simple Prescription, Comfortable Fit, Various Sizes.



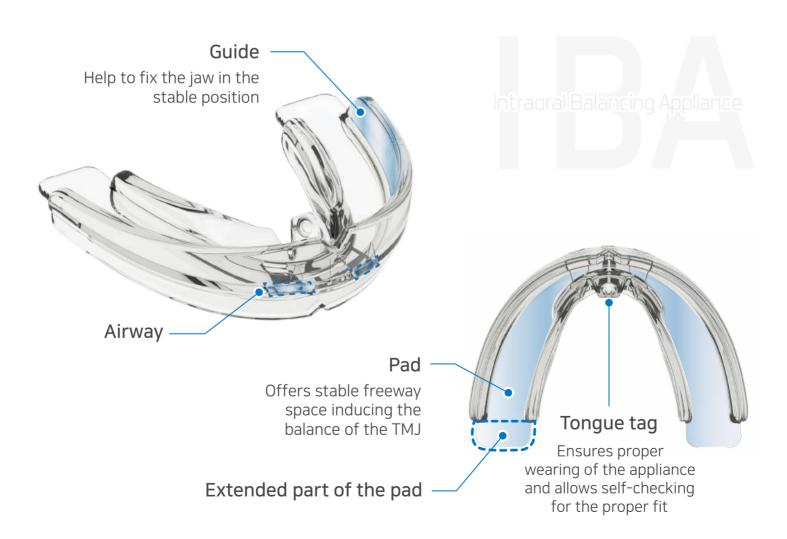




Feature of IBA (Intraoral Balancing Appliance)

- ▶ IBA is designed to minimize abnormal signals of TMJ and to relieve muscle tensions around TMJ by offering stable freeway space.
- ▶ IBA is designed for an optimally stable and balanced position of the mandible in relation with the cranium.
- ▶ There are various types of IBA for different sizes and malocclusion type
- ▶ IBA is comfortable to wear and easy to prescribe with its various types and sizes.
- ▶ IBA is made of medical grade silicone with RoHS (Restriction of Hazardous Substances) and FDA (Food & Drug Administration of U.S.) compliance. IBA also has passed cytotoxicity test, skin irritation test, and intracutaneous (intradermal) reactivity test.

Structural Feature of IBA

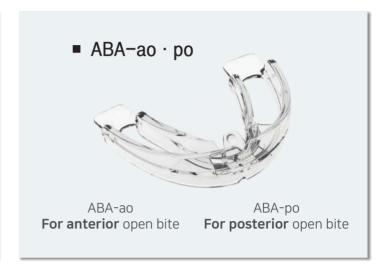


Features of IBA

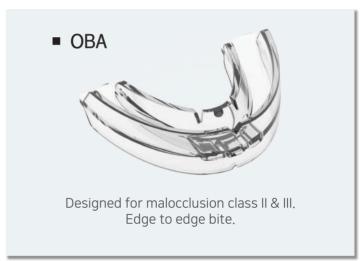


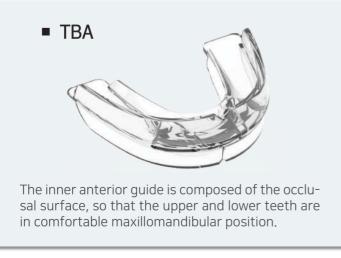
■ IBA(Intraoral Balancing Appliance)™ Product Line

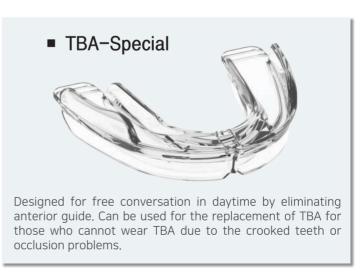














Product Types & Sizes

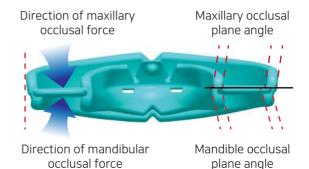
Product Types

	АВА тм	ТВАтм	OAA TM	OBA TM		
Sizes	Size 1 ~ 10	S, M, L, W, Special	Size 1 ~ 10	K, C, J, A, L		
Applied for malocclusion type	Class I, II, III	Class I, II, III	Class II, III	Class II, III		
Rear position of anterior mandible	2.5 mm rear (to normal occlusion)	2 mm rear (to normal occlusion)	Edge to edge	A / C : 1 mm rear J / K / L : Edge to edge		
Gingival contact of inner and outer guide	Class I, II, III	Class I, II, III	Class II, III	Class II, III		
The thickness of the inner guide	3 mm	Anterior: 1.8 mm Posterior: 1.15 mm	3.5 mm	2.5 mm		
The thickness of the outer guide	3 mm	Anterior: 2.4 mm Posterior: 1.6 mm	4 mm	2.5 mm		
The thickness of anterior pad	2 mm	3.5 mm	2 mm	3.5 mm		
The thickness of posterior pad (7-8th teeth)	1.6 mm	S: 1.6 mm M: 1.9 mm	1.6 mm	C: 2 mm / A: 2.5 mm J/K/L: 2.4 mm		

- ▶ ABA and OAA have been divided into various sizes ranging from 1 to 10 by measuring tooth height, width, length and occlusal angle of the anterior and posterior teeth based on a study on assessing the average size of teeth of 5,000 men and women in the East and West.
- ▶ ABA and OAA have low inner and outer guides, minimizing gum interference and enhancing comfort.
- ▶ IBA was designed its anterior and posterior pad thicknesses in the 1.6-3.5mm range for an ideal freeway space for maxillary and mandible.

Design Features of OAA & ABA

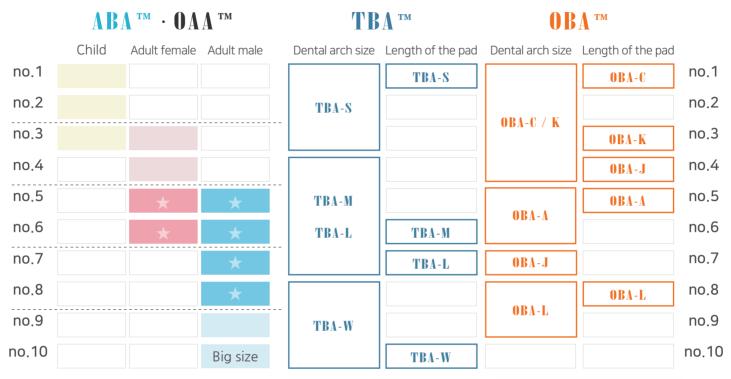
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Product Types & Sizes



B Size Comparison Chart



- ➤ The size of ABA-ao/po is equal to ABA #6 (anterior, posterior)
 Applied for people with anterior or posterior open bite malocclusion
- \triangleright Width difference of the pad : OBA-K < OBA-C / OBA-J < OBA-A



4 Hard & Soft Type Guide

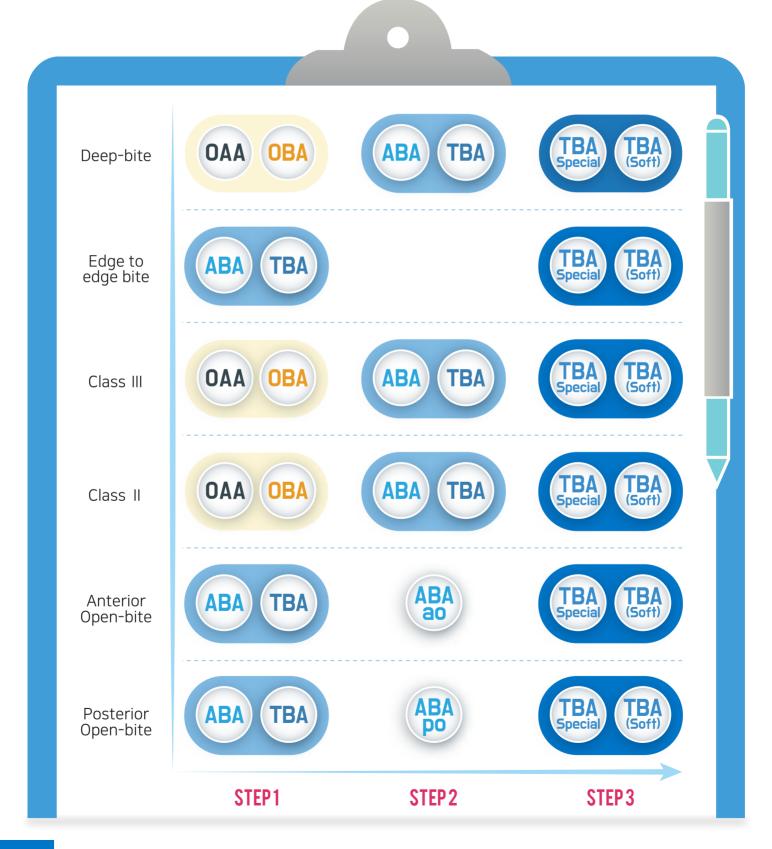
	TBA-S	TBA-M	TBA-L	TBA-SPECIAL	TBA-W	OBA-K	OBA-C	OBA-J	OBA-A	OBA-L
Soft		*		*						
Standard	*	*	*	*	*	*	*	*	*	*
Hard	*	*	*			*	*	*	*	

- Soft type: less burden on the teeth and comfortable fit
- Hard type: for those who have bruxism and clenching habit
- ▶ ABA and OAA are made with the same degree of hardness as the standard type.
- ▶ If the patients set importance on the fit and easily get a cold sore, it is recommended to prescribe the standard or soft type and inform patients about the easy-tearing of the appliance in case of bruxism and clenching habit.



Prescription Guide

Prescription Guide for Each Step & Type



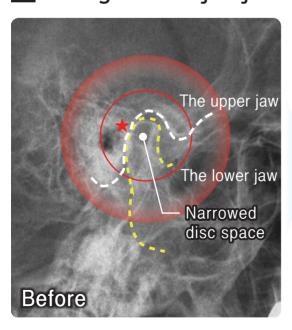
Clinical Cases



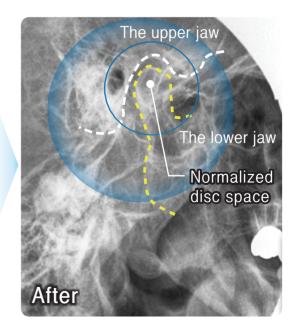
Clinical Treatment Cases



2 Changes in the jaw joint disc space before and after the treatment



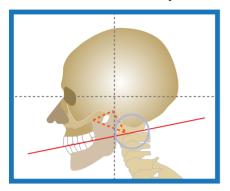
After 4 months Lt. TMJ





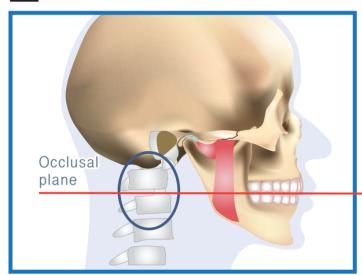
Importance of TMJ

Relationship between TMJ and Atlanto-axial Joint (atlas, axis)

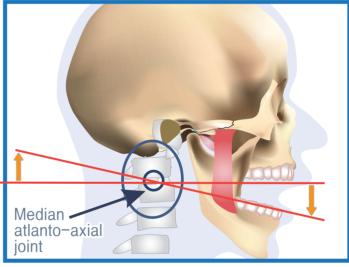


- 1. The atlanto-axial joint and both TMJs form a balanced triangle
- b change of the atlanto-axial joint according to TMJs
- ▶ change of center of gravity of the head
- 2. TMJ balance determines the alignment of the atlas and the axis.
- ▶ Balance of the TMJ determines atlanto-axial alignment.
- 3. Atlanto-axial joint becomes the central axis of rotary motion of the mandibular and is positioned on the occlusal plane.
- ** Ref: Cerebrospinal functional medicine by Y.J. Lee (Seoul, 2007, p. 211-218)
 Template therapy for systemic improvement
 (International society for functional orthodontics and TMJ, 1997, p.32, 35, 45)

2 The Axis of Mandibular Movement ► Axis (Median Atlanto-axial joint)



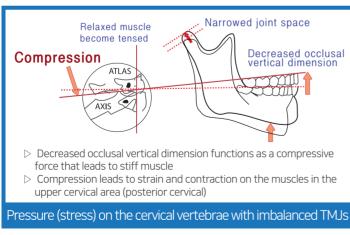
The axis of the mandibular movement is positioned not on the mandibular condyle, but on the dens of the atlanto-axial joint (C0, 1, C2).

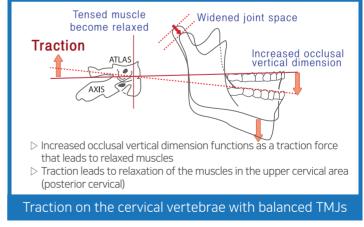


** Ref : : Template therapy for systemic improvement (International society for functional orthodontics and TMJ, 1997, 32)

* Ref: Qadrant Theorem by C. M. Guzay

The Relationship Between the TMJ, Atlas and Axis: Pulling and Pressure of Atlanto-axial joint



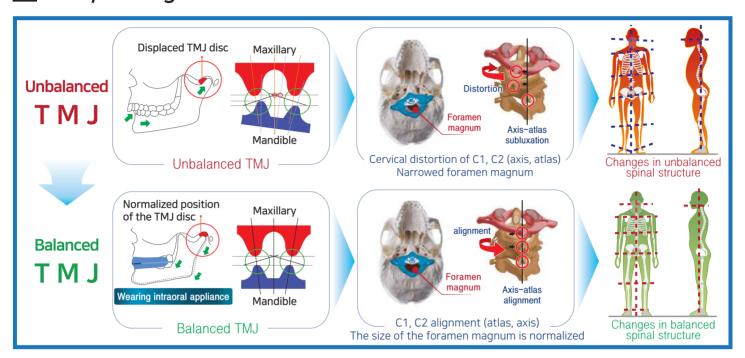


* Ref: Template therapy for systemic improvement (International society for functional orthodontics and TMJ, 1997, p. 62, 63)

Importance of TMJ

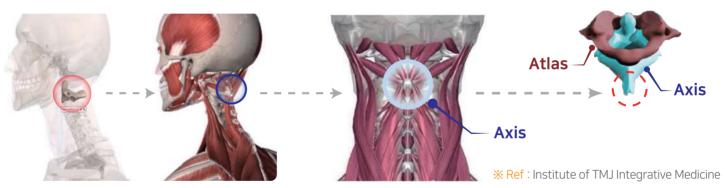


4 Body Changes and Treatment in Balanced and Unbalanced TMJs



5 Causes of Spinal Structure Imbalance

▶ In our body there is only one vertebrae with an odontoid which is axis (C2).



Q. Why is C2 important?

A. Our spine comprises 7cervical, 12thoracic, 5lumbar, sacrum(sacral vertebrae), 4 coccyx (coccygeal vertebra)vertebras. From among these only axis has an odontoid (C2).

Once the axis is distorted, the rest of the vertebrae in the spine will soon follow, as will the pelvis and cranial bones, like in the domino effect. Therefore, the axis is very important factor.

Axis= the axis of the body movement

1. Axis= the axis of the body movement

- ▷ The axis of the spine (scoliosis, lordosis, kyphosis)
- ▷ The axis of the rotatory movement of the skull (rotation, lateroflexion, retroflexion)

2. TMJ imbalance=a factor of axial imbalance





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