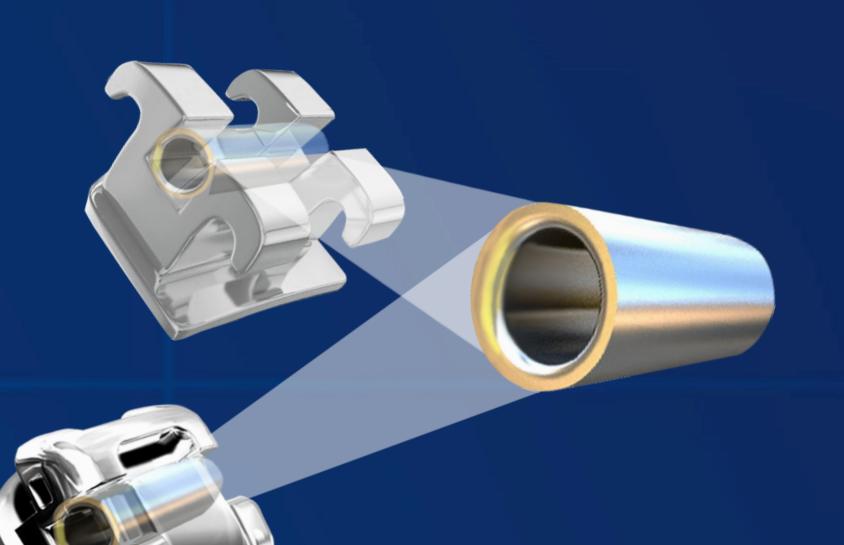




# Class I malocclusion treatment with a new orthodontic self-ligating passive system with mini-tubes.

The objective of this clinical table is to introduce the therapeutic scope and the clinical results of a new orthodontic self-ligating passive system, minimally invasive, with special features that provide patients high levels of aesthetic comfort and hygiene as a tool for the treatment of different malocclusions with predictable results.

The treatment of three class I malocclusion cases with different levels of crowding are going to be presented.





MTOS: Mini-tube orthodontic syster Design by Dr. Joaquin Ariza Flow Jac System ® Patented in USA and Colombia

Dr. Joaquin Ariza Olaya, Orthodontist from the Universidad Militar Nueva Granada UNICIEO. Researcher and assistant professor of the postgraduate program for Orthodontics and dentofacial orthopedics,
UNICIEO University, Bogotá - Colombia. Director and inventor of Orthodontic Mini-Tube System.

### Diagnosis and etiology:

**Case one:** A 21-years-old, man, Class I malocclusion, hyperdivergent pattern, mild crowding in the upper arch and moderate crowding in the lower arch, diminished overbite with maxillary and mandibular transversal constriction.



*Case Two:* A 34-years-old, woman, Class I malocclusion, relapse from previous orthodontic treatment with 4 extractions, unilateral posterior crossbite with maxillary and mandibular transversal constriction.



Case three: A 14-years-old, woman, Class I malocclusion, narrow triangular dental arches, mild crowding in the upper and lower arch, with maxillary and mandibular transversal constriction.



# Treatment objectives and alternatives:

The treatment objectives for this three patients were as follows: (1) Expansion of the maxillary and mandibular arches; (2) correction of the mandibular and maxillary anterior crowding; (3) creation of an ideal overbite and overjet; and (4) improvement of their esthetics.

Alternatives: A chief complaint of the patients were aesthetics but any of them want an orthodontic conventional system; they were seeking for an orthodontic treatment that would give them aesthetic, hygiene and comfort. The treatment alternatives were invisalign, ceramic or lingual brackets however any of them could gave all of it.

## Treatment results:

The post-treatment records showed that the treatment objectives were achieved. The facial photographs showed significant improvements in their esthetics. A natural dental arches expansion was achieved, crowding had been resolved, and ideal overbite and overjet were established. The Class I canine and molar relationships were maintained.

### Conclusions:

This new orthodontic system shows a very good clinical and esthetic performance and helps to minimize the main drawbacks of aesthetics and comfort observed with the use of conventional brackets systems.

2017 Annual Session

April 21 - 25, 2017
San Diego CA
San Diego Convention Center