

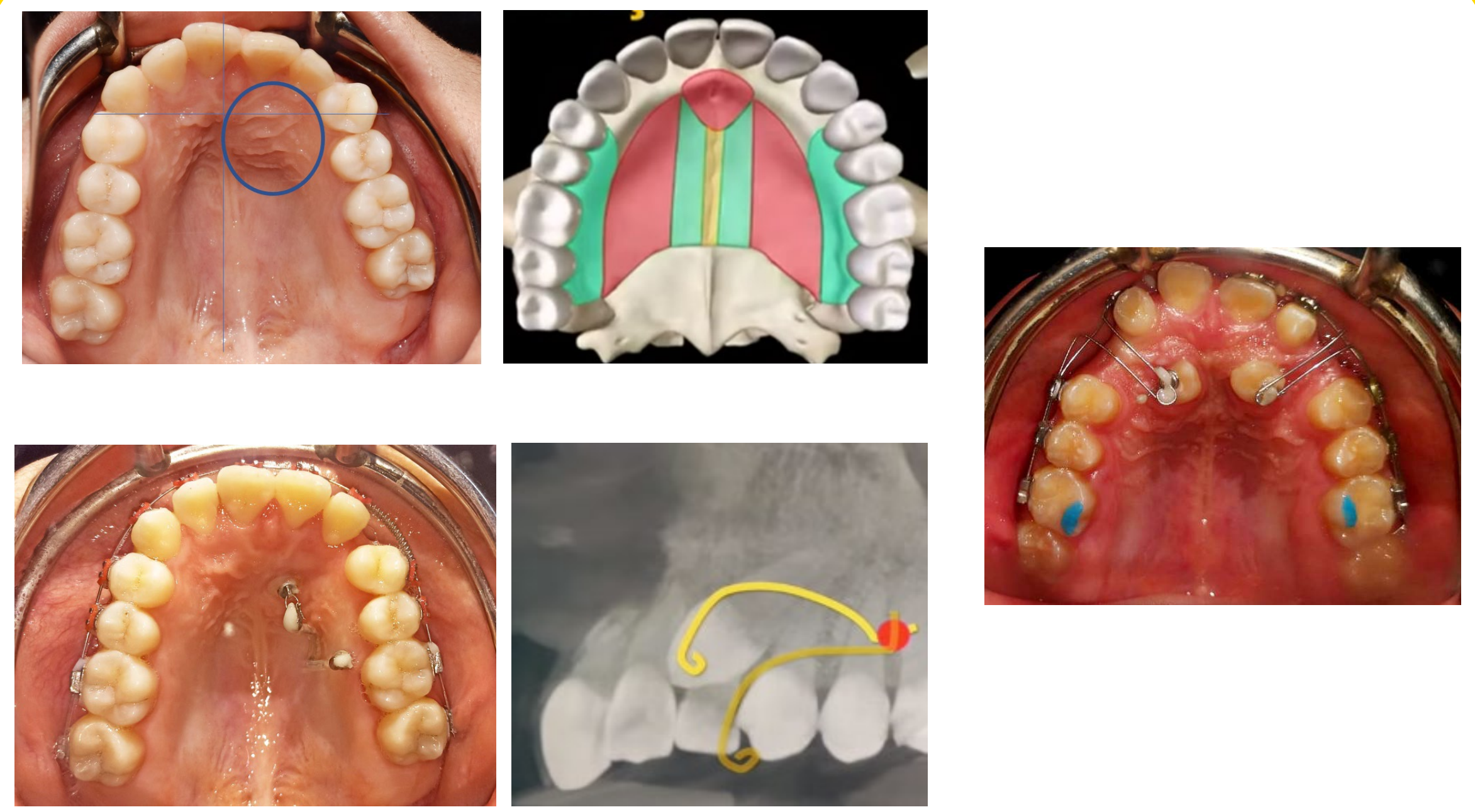
## INTRODUCTION

To traction impacted canine is a challenge for any orthodontics. The aim of this research poster is introduce a proper way to traction impacted canine in palatal without side effects through the use of a multidirectional TMA wire in order to guide impacted canine and place it in a proper place.

Its imperative to know anatomical sites to place miniscrews in palatal in order to avoid important blood vessels and nerves.

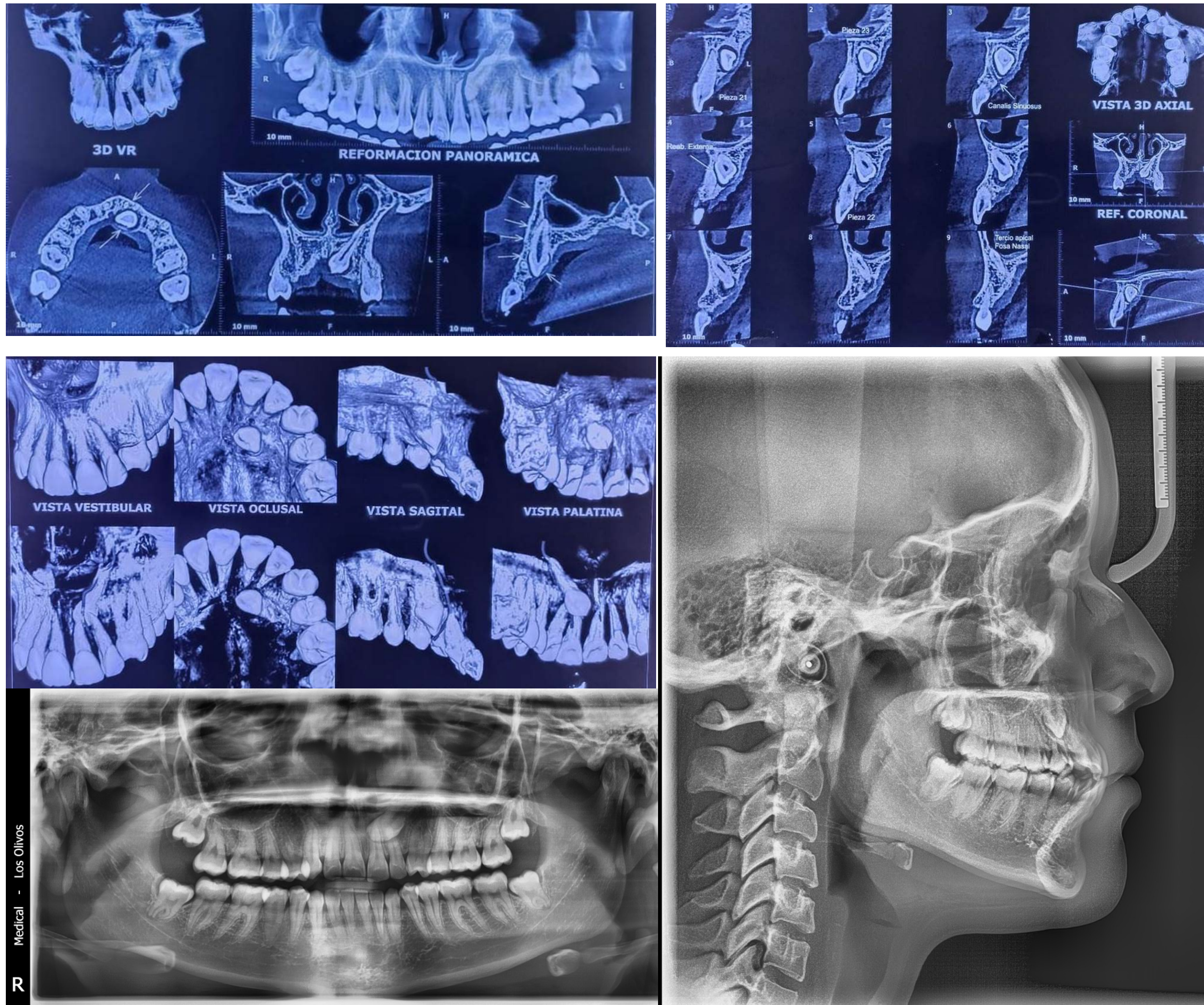
The success of an implant or miniscrew is determined by the patient's general condition, the biocompatibility of the materials, the placement procedure, and bone quantity and quality. The initial stability of miniscrews is considered essential in clinical use because of immediate or early loading in many patients.

Besides planning, biomechanical forces is also a crucial part of the any treatment.



## DIAGNOSIS

The panoramic and periapical radiographs showed of the impacted maxillary left canine. Further CBCT (Cone beam Computer test findings (3-dimensional image analysis software) showed that the maxillary left canine was impacted on the palatal. Besides through clinical assesment there was a slight elevation in palatal.



## Materials and technique

In order to traction impacted canine We need to make a multidirectional Cantilever with Titanium molybdenum alloy (TMA) wire 0.019 x 0,025".

One plier 139

Mini screw 1.5 diameter, 8mm lenght and 2mm transmucosal With a hole in the head of mini screw. Morelli , Sao Paulo. Brasil 20 cms of wire for ligature 0,010"

Bondable buttom eyelet to impacted canine

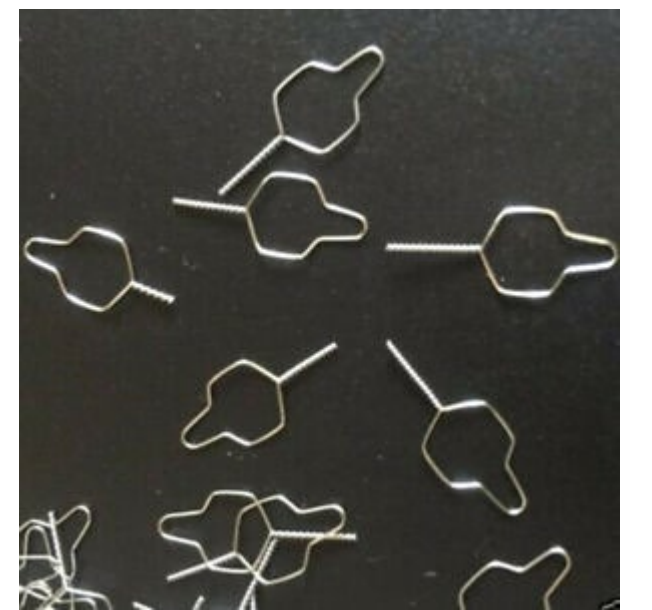
Mathew plier.

Flow resin A2.

Orthodontic Cutter plier

1-16 oz Orthodontic Dynamometer

PS. Placing miniscrew the hole must be perpendicular to oclusal plane.



## CASE PRESENTATION

An 18-year-old girl came to the private dental office with the chief complaint of delayed eruption of her maxillary left canine. She was in good health with no history of dental trauma. She had a well-balanced and asymmetrical face, but her appearance was degraded by spacing and malpositioned teeth upon smiling.



## RESULTS

1.Using the multidirectional cantilever in temporal Anchorage device to traction impacted canine is possible using proper bio forces



## CONCLUSIONS

- 1.- Temporal anchorage device is a very usefull tool to traction impacted canines without side effects.
- 2.- Multidirectional tma wire is needed to traction impated canine in palatal.
- 3.- Positioning a miniscrew , on the palatal side, the interradicular space between the maxillary first molar and second premolar, from two to eight milimeters from the alveolar crest.

## REFERENCES

1. Lee M, Park J, Jung J. Forced eruption of a palatally impacted and transposed canine with a temporary skeletal anchorage device. Am J Orthod Dentofacial Orthop. 2017; 151:1148-58.
2. Alves Jr. M, Baratieri C, Marquezan M, Nojima LI, Pacheco MCT, Araújo MTS. Palato: o que saber previamente à instalação de mini-implantes? Rev Clín Ortod Dental Press 2012; fev-mar;11(1):108-14.

