SELF-LIGATING BRACKETS DO NOT MAKE THE ORTHODONTIC TREATMENT FASTER

Nowadays, a question remains among orthodontists: Would self-ligating brackets be able to increase the efficiency of orthodontic treatment and make it faster? Although it may seem paradoxical to think that the connection of brackets will interfere with the biology of tooth movement, the orthodontic materials industries keep this flame lit. While searching for an answer, Chinese researchers compared the treatment time, the results achieved and anchorage loss in patients treated with self-ligating and conventional brackets.1 The results showed no difference regarding the time and loss of anchorage in patients treated using brackets with different ligating systems.

ASTHMA AND ORTHODONTIC TREATMENT, IS THERE A RELATION BETWEEN IT?

Asthma is a common disease in childhood and adolescence. Being an inflammatory disease, it may interfere in the orthodontic movement, since it also occurs through an inflammation mechanism. Trying to elucidate this relationship, Brazilian researchers from UFRJ and Fiocruz decided to assess the real impact of this disease, performing experimental orthodontic treatments in mice.2 The findings showed that asthma seems to boost the orthodontic movement in them. These data now need to be evaluated clinically for further confirmation before being adopted in clinical orthodontics. Despite the initial findings, they emphasize the importance of a multidisciplinary practice in orthodontic treatment.

MOUTH RINSE WITH ALCOHOL MAY INTERFERE IN ORTHODONTIC TREATMENT

The use of orthodontic appliances demands from their bearers a special care, since the presence of this device in the oral cavity provides greater accumulation of plaque. With all this, the orthodontist must make use of an educational-preventive model proper to each patient in order to control the plaque, through the use of brushes and flosses, and also mouthrinses. However, in such cases remains the doubt on what is the influence of these chemical agents on the mechanical properties of the orthodontic ligatures. In order to make this clear, American researchers evaluated in vitro the influence of alcoholic rinses on the strength of orthodontic elastomeric chains.3 The results revealed that the force of the elastics decrease with the use of these substances. Thus, this work confirms an important clinical information: When indicating the use of mouthrinses to patients, the orthodontist should emphasize the preference for those without alcohol in their formulation.

PANORAMIC RADIOGRAPHY STILL SEEMS TO BE A GOOD SOLUTION FOR PREDICTING CANINE IMPACTION

We live in the era of Computed Tomography, with all its applications and possibilities. We all know that the scans are, nowadays, the most reliable method to evaluate the positioning of the teeth which have not erupted yet. Still, would this be the only method to predict the impaction of unerupted teeth, particularly the canines? While searching for an answer to this question, Indian
and Chinese researchers verified whether the impaction of canines could be predicted by measurements on panoramic radiographs. Results were promising, considering that it is possible, yes, to predict canine impaction by studying the panoramic radiograph and their inclination when erupting (Fig 1).

**PROPOLIS STIMULATES BONE FORMATION AFTER PALATAL SUTURE EXPANSION**

Propolis is a resinous substance, obtained by bees through the harvest of flora resins, and modified by the action of enzymes contained in their saliva. It has antioxidant, anti-inflammatory and antimicrobial properties. The power of this substance was reported also on fracture healing, in the medical literature of 2011. With this knowledge, Turkish researchers aimed to find whether this substance would also be beneficial in the process of bone formation after palatal suture expansion. The laboratory results give us positive expectations, given that the systemic use of propolis accelerated bone formation in the expanded suture in mice. Such results are of clinical interest, for reducing the retention time after expansion will decrease the whole treatment time. It is worth to emphasize that these results are preliminary and need to be proven clinically in humans (Fig 2).

**REFERENCES**