

## Titre de la communication N°1 (anglais)

« Orthognatic Surgery and Lingual Orthodontics:

### Résumé anglais:

Aesthetic is now the major demand of the adults who are consulting in our offices. Therefore, the last years saw the development of orthodontics appliances turned to this particular demand, and so the development of new techniques, in particular the use of lingual appliances.

The physiological peculiarity of the adult is by definition the absence of growth and thus a more frequent appeal to orthognatic surgery, that we must know how to indicate.

#### Objectives:

1/ To recapitulate the various indications of a protocol associating orthodontics and orthognatic surgery.

2/ We shall remind the objectives of the presurgical orthodontic preparation, in lingual technique, the precision of which will ensue the quality of the surgery.

#### Materials and Methods:

This work leans on a review of the literature and the experience of a teamwork realized in the CHU Bicêtre, by the Dr F Bedar (Orthodontics) and the Dr J-B Charrier (surgery).

#### Discussion

We shall resume the peculiarities of the biomechanics of the lingual system and shall clarify the difficulties met during the orthodontic preparation as well as the found solutions, according to the various appliances.

Several clinical cases will be presented.

#### Conclusion and perspectives

The grown-up orthodontics is rapidly expanding, and the patients wait a great deal of a care which they find still very often painful, and especially long.

The immense progress of the invisible techniques, at the same time as the development of the orthognatic surgery, at present perfectly codified, allowed the opening of new horizons, in the realization of ambitious treatments and the objectives of which remain, besides an unmistakable aesthetic improvement, a better function, so insuring dental perpetuity.

The major inconvenience of this care remaining the length of this type of protocol, often disheartening for our patients, we investigate new tracks to reduce the length of orthodontic treatment. Our team so works on the development of a technique of acceleration of the orthodontic treatment by alveolar corticotomy.

MeSH :

Orthodontics

Orthodontic Brackets

Biomechanics

Oral Surgery

Alveolar corticotomy

## Titre de la communication N°2 (anglais)

« Unilateral mastication and buccal cross-bites: Orthopaedic treatment:

### Résumé anglais:

The form and the size of the arcades are determined by their functional environment and one of these functions is mastication.

In fact, nutrition plays, since early age a very important role in the morphogenesis dental arcades.

Since birth, breast feeding stimulates essentially the mandibular growth, then it's the function "prehension / bite" that follows with the incisor eruption; with lacteal molar eruption, occlusion is established and mastication starts to elaborate: **maxillary and mandibular morphology depend on the schema of mastication.**

For the too young patient, the effects of pathological mastication on the mandibular and maxillary growth are so marked, only to them, that they could justify an early treatment.

In indeed, the apparition of unilateral mastication at an early age may be at the origin of skeletal deviation of maxillas, hence the importance of treatment since its apparition.

**The treatment has to include a functional correction of the mastication**

## Titre de la communication N°3 (anglais)

« Prevalence of agenesie of incisives laterals in Sidi Bel Abbes's region-Algeria”

### Résumé anglais:

During our daily practice we receive in the service of ODF of Sidi Bel Abbés (North-Western Algerian city of about a million inhabitants) an important number of agénésies and more particularly agénésies of side incisors. This frequency represents 4 % of the orthodontic population and 65 % of the general population of patients having an agénésie; this last get touch the side incisors of the upper maxillary.

Prevalence of the agénésie is 5.5 % for the European population, 1.9 % getting touching the side incisors The notion of heredity often returns in our interrogation; this last one was described in the literature. The agénésie appears among the dental abnormalities most frequently studied in orthodontic genetics. Our work allowed us to clarify prevalence of this agénésie in the region of Sidi Bel Abbés; on 150 patients from 6 to 18 years old, at the level of the consultation of the service of orthodontics, over a period going from February, 2008 till June, 2009.

This difference of prevalence would be to be put at the expense account of the differences of the ethnic point of view with all the specificities of each group.

One of the plausible explanations would be the frequency of the consanguine mariages found rather often .this characteristic is interesting in premature screening at the children with particular family ground.