

Dr Marie-Josèphe DESHAYES

**TITLE OF THE 3 WORKSHOPS**

***How to change the face: motivations for Orthodontists to treat before the age of 6.***

Planning: Three full days for each workshop, with slide shows, anatomical investigations, clinical cases, in continuous interaction with MJ Deshayes.

**WORKSHOP 1**

***Theoretical concepts: Cranial Growth and its impact on the occlusion***

The global « *positive* » kinetics for the *ontogenic* process of flexion of the basicranium. *Occipital remodeling*, its specificities, and *sphenoidal remodeling*, both acting on the process of flexion. Awareness about the transverse dimension of the basicranium and the face.

*The process of external rotary activity of the maxilla* and the mesialization of the teeth buds.

*The temporal bone*: the reshaping of the glenoid cavity. The starting point of the masticatory function: the alternate capacity of the temporal bones to enhance lateral excursions.

The definition of « the cranial occlusion » and the « postural occlusion » at the age of 3.

*The BDCF document* following the concept of the « BioDynamique Cranio-Faciale ». Essential photos, laterality tests of the child in « cranial » position and in « postural » position.

*Cranial patterns* and their occlusal dysharmonies in Class I, II and III. Investigate the relationship between the face and the basicranium.

**In practice**

A computer model of the *BDCF document* is given: how to fill up the completed form of the features of the child in lacteal dentition.

Models are provided to the participants for training the use of *Orthogrille*®: a grid to analyze the maxillary arch.

Examples of photos of profiles are provided for learning the *drawing of the ear' cutaneous axes*.

**Some pieces of advice before the first workshop:** to use easily software for screening edition of photos (as *Photoshop Elements*) and do a collection of them (as the software *PowerPoint*).

*The use of a dry disarticulated skull is recommended. Deep insight in craniofacial anatomy is required.*

**After this first workshop**, each participant is invited to send as soon as possible one BDCF documentary case to Dr Deshayes. She will correct it in order to guide the participants for the second workshop. By the time they continue to prepare other BDCF documentary cases in advance.

## **WORKSHOP 2**

### ***The indictment of the features specific to a young child in temporary dentition with facial asymmetry.***

*Sum up:* more inside the Biomechanics of the cranial sutures. Anterior and external capacity of the temporal bone to initialize the masticatory function.

*Overviews on facial and cranial asymmetries:* clinical study of asymmetrical babies.

*The main cranial asymmetries* and the mandibular deviations. Asymmetrical ear'cutaneous axes and the "working side" of the masticatory function.

Reading the asymmetrical masticatory trajectories in three dimensions (**TM3D**) relative to the cranial asymmetry.

The type of asymmetry and the primitive incline of the occlusal plane.

The "prerequisites" needed to do the diagnosis of facial asymmetry.

### **In practice: conceptualize the appliances to treat asymmetry.**

How to analyze a facial asymmetry on computerized photos.

The analysis of sagittal and transversal discrepancy of the maxillary arch with the Orthogrille®. Training for the study of *sectorial screws*.

Uncovering axial temporal asymmetry (examples). Drawing asymmetrical TM3D (lateral, sagittal and vertical components).

Adjusting the *Unlocking Sliding acrylic Plates* (USP) to avoid the native working side.

**Our strategy for this second workshop:** the clinical prerequisites before starting an early treatment of facial asymmetry. The summary of the type of asymmetry.

#### **Some pieces of advice before treating asymmetry:**

it is useful to come to the second workshop with models of a child in lacteal dentition; his BDCF documentary case must be sent *previously* to Dr Deshayes (minimum 4 weeks before the workshop). During the workshop, she will give advices how to finish the prerequisites for each BDCF document.

### **WORKSHOP 3**

#### ***How to enhance symmetry in the temporomandibular joints: rebalance the kinetics of the temporal bones while chewing.***

How to change the native working side of the masticatory function. How to adjust and grind the USP in order to modify the temporal kinetic'axes. The first step: how to temporary modify the occlusal plane while chewing.

The second step: the definitely correction of the incline of the upper occlusal plane with the *Frankel-type* re-centering device.

The establishment of a draft therapy.

More insight in the different types of cranial asymmetries. Setting up the *prognosis* depending on the temporal axial asymmetry/ the primitive incline of the orbital plane/ the primitive incline of the occlusal plane.

#### ***In practice: a protocol with very strict rules***

- (i) disoccluding dento facial asymmetry with total disocclusion plate appliances (Unlocking Sliding Plates);
- (ii) correcting all the positional anomalies of the dental units by restricted action of sectorial screws;
- (iii) recovering the definitive vertical regularization of the occlusal plane with the Frankel re-centering device;
- (iv) retraining the neuronal cognitive networks of the masticatory function.

**Some pieces of advice before the third workshop:** it is useful to achieve the BDCF documentary of each case and send it to Dr Deshayes (minimum 4 weeks before the workshop). During the workshop, she will give advices for the treatment of each case.