



## Early sensorimotor relations between respiratory - and postural imbalances and oral imbalance.

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### Abstract

The gap between medical and dental world is the reason why nobody has never published about this multifactorial topic. We are now able to explain how dental malocclusions and oro-facial dysfunctions are linked to imbalances during the perinatal sensorimotor coordinations, often leading in adulthood to general posture (lumbo-sciatic) and/or respiratory disorders (OSA). If, since the first neurodevelopmental steps, the determination of the primary oro-facial balance is the witness as well as a relay of an accurate implementation of the child's posture balance (both being under the required control of the respiratory balance between nasal ventilation and mouth breathing), this means that we are heading towards a new daily concern and an additional responsibility for paediatricians in monitoring children's growth. Building on more than 40 years of study, practice and experience in Pediatric Orthodontics, my expertise has been fast-tracked and consolidated through my education in Bullinger's early sensorimotor assessment (UNIL-Lausanne 2014). From then, I am pursuing personal clinical research by collecting and comparing pre-neo-and postnatal data for sensorimotor development with tridimensional cranio-facial imbalance and malocclusions (more than 150 cases). The critical period is the first vertical balance determination from sitting to standing position where occur the primary incisor eruptions and connections. (the three loops theory). Through this new integrative and anterograde analysis of the early and tight coordination between the implementation of the first 3D determinants for R.P.O balances, we can offer a helpful daily tool for paediatricians: Orthoglobal Concept's early assessment for a first quick and global synthesis of these Respiratory – Postural – Oro-facial (RPO) balances.

### Biography:

Michael Lacroix has oriented his clinical practice and research on early orthodontic treatment. In the year 1977 – 2007: Dentofacial Orthodontic Practice on the French side of the French-Swiss border and creation of ORTHOGLOBAL (Lausanne) for the promotion of pediatric orthodontics. He was a member of the French Society of Pediatric Orthodontics and teacher at the Swiss Federation of Osteopaths and laid research and communications on the early determinants of occlusion according to the early sensorimotor determinants of posture at AIOF (International Association of French-speaking Orthodontists) and CIMF - (International Club of Facial Morphology) - SEROPP (International Society for Research in Pediatric and Perinatal Osteopathy) and was a member of the Swiss Pediatric Society, CIMF, AIOF, IPOS (International Pediatric Orthodontic Society) and AAMS (Academy of Applied Myofunctional Sciences).

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