



## The facial asymmetry as a developmental anomaly

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### Abstract :

We all want a healthy, beautiful, and natural face, and one factor for the good face will be the symmetry. We know well that the symmetrical face can bring more attractiveness to people (David Perrett, 2014), and also has less chances to be involved in the temporomandibular disorder or the masticatory inefficiency. So we want to treat the asymmetrical face.

But the treatment of facial asymmetry is not simple, as compared with the prognathic or retrognathic jaw treatment. We need more complex and delicate diagnosis and treatment planning. It is strongly related to the fact that the facial asymmetry is not a simple transposition of the maxillomandibular structure away from the midline, but is distorted in three-dimensional space. We therefore need to perform the accurate diagnosis and treatment, which is greatly facilitated by the computer assisted surgery.

The craniofacial structures grow in space since their developmental origin. We learned the diverse etiopathogenic reasons of the facial asymmetry. The growth disturbances will be the major issues for the developmentally-originated facial asymmetry as well as the congenitally occurred asymmetry (such as hemifacial microsomia). But it is not clear how we can incorporate this etiopathogenic and growth concept to the treatment.

The main contents of my presentation will cover the diagnosis of facial asymmetry, based on the etiopathogenesis and digital technology, with the asymmetry-related postural disturbances. And the design, planning and execution of surgical treatment for facial asymmetry will be followed, with the emphasis on the biological science and computer assisted surgical technique.