Maxillofacial Orthognathics

1. Staffs and Students (April, 2010)
Professor Keiji MORIYAMA
Associate Professor Shoichi SUZUKI
Junior Associate Professor Naoto SUDA
Assistant Professor Tatsuo KAWAMOTO, Michiko TSUJI,
Takuya OGAWA, Norihsa HIGASHIHORI,
Jun MIYAMOTO
GCOE Research Associate Professor Naoto HARUYAMA
Hard Tissue Genome Research Center, Research Assistant Professor Yukiho KOBAYASHI
Graduate Student NG Inn Wo, Hiroyuki SUZUKI, Kaori TSUJI,
Tsutomu MATSUMOTO, Naomi KAWAKUBO, Yuko KOMAZAKI,
Masayoshi UEZONO, Masako YOSHIZAKI, Paveenarat AUKKARASONGSUP

2. Purpose of Education
The goal of the education program in Maxillofacial Orthognathics is to provide an education related to craniofacial growth and development, and stomatognathic function in order to develop proficiency in improvement of a wide variety of malocclusions and malformations.

Fourth and fifth dental students will attend lectures and clinical laboratories, and fifth and sixth students will participate in the patient care clinic to acquire a broad range of general knowledge of a wide variety of malocclusions and malformations, and involvement of treatment. Tutorial lessons will be also provided students as a part of clinical lecture so that it supports them to understand cleft lip and/or palate and other congenital craniofacial conditions.

The Graduate Program provides the biological science education related to the control mechanism of patterning and morphogenesis in the craniofacial region using molecular genetics and morphological analysis through patients born with cleft lip and/or palate and other congenital craniofacial conditions. It also provides the clinical education of orthodontics necessary support to gain an appreciation of their role in the team approach to comprehensive patient care.

3. Research Subjects
1) Basic and clinical studies of cleft lip and/or palate and other congenital craniofacial conditions
2) Morphological and physiological studies of facial deformity
3) Physiological study about control mechanism of stomatognatic function
4) Functional MRI study in the craniofacial region
5) Evaluate changes in soft tissue following maxillofacial surgery using 3D images

4. Clinical Services
In the clinic, we treat a large number of patients presenting a variety of malocclusions to be assigned to group practice in order to gain valuable experience in diagnosis, treatment planning, orthodontic therapy, and patient management. Especially for patients born with cleft lip and/or palate and who need craniofacial and orthognathic surgery, we have clinical meetings and conferences for the comprehensive care through a team approach with maxillofacial surgeons, maxillofacial prosthodontists and speech therapists. We also provide supportive counseling to families who have members with congenital anomalies before the treatment.

5. Publications
Original Article


Books