

## ANNUAL PUBLICATIONS

## Department of Maxillofacial Reconstruction and Function Maxillofacial Prosthetics

1999.4.-2000.3.

## I. Staffs and Students (April, 1999)

Professor	H. Taniguchi	
Assistant Professor	T. Hideshima	
Post Graduate Student	T. Yamanaka	O. Komin
	T. Iida	Y. Sumita
	R. Sato	T. Takahashi
	J. Nakajima	S. Hlaing
	M. Kobayashi	H. Churei
	M. Haraguchi	N. Matsumoto
Special Student		
Secretary	A. Kikukawa	

## II. Educational Outline of Graduate Course

Department of Maxillofacial Prosthetics is the special unit of the prosthodontic and/or prosthetic treatment for patients with defects in oral and/or maxillofacial regions. The main objective of this course is to provide students with opportunity to gain sound understanding of the restoration of functional and esthetic disorders of oral and/or maxillofacial areas that are caused by congenital developmental or acquired diseases by means of the high-advanced dental and medical cares.

## III. Research Subjects

- 1) As for cleft lip and palate patients,
  - (a) EMG analysis of Jaw muscle,
  - (b) Modal analysis of the dentition.
- 2) As for maxillectomy patients
  - (a) Analysis of the obturator prosthesis movement.
  - (b) Modal analysis of the obturator prosthesis
- 3) As for mandibulectomy patients
  - (a) Analysis of mandibular movement
- 4) As for facial defect patients
  - (a) Computer color matching
  - (b) Stability of pigments for facial prosthesis
- 5) As for oral cancer patients
  - (a) Clinical application of radiotherapy appliances
- 6) Development of new maxillofacial implant material
- 7) Speech analysis in patients with maxillofacial defects

## IV. Publications (April, 1999-March, 2000)

## A. Original Articles

1. Komin O., Taniguchi H., Oki M., Ueno T., Takada Y., Suzuki R., Shinozuka O., Ohyama T.: Observation of the vibratory characteristics of the inanimate human skull with mouthguards through displacement value on modal analysis. J. Sports. Dent., 2(1): 17-25, 1999.
2. Sumita Y., Sasaki Y., Ueno T., Taniguchi H., Ohyama T.: Effect of teeth clenching on the force-velocity relationships in isokinetic knee extension. Jpn. J. Phys.Fitness Sports Med. 48: 365-374, 1999.
3. Takahashi M., Hideshima M., Park I., Taniguchi H., Ohyama T. : Study of mandibular movements in mandibulectomy patients - Border movements and functional movements during Mastication, Deglutition and Speech -. J Med Dent Sci, 46 : 93-103, 1999.
4. Sasaki, Y., Kondo, G., Ueno, T., Sumita, Y., Churei. H., Haraguchi, M., Taniguchi, H., Ohyama, T.: Mouthguards of amateur high school boxers in Japan. J. Sports Dent. 3 (1): 24-30, 2000.

- 5 . Komin, O., Oki, M., Phankosol, P., Ohyama, T., Taniguchi, H.: The vibratory properties of an obturator prosthesis with a soft lining material. J Med Dent Sci; 47(1) 77-85, 2000.

#### B. Books

#### C. Review Articles

- 1 . Taniguchi, H. : Current Status of Study on Obturator Prosthesis. J. Stomatol. Soc., Jpn. 67(1):11-17, 2000 (in Japanese).
- 2 . Taniguchi, T.; Radiotherapy prosthesis. J Med Dent Sci; 47(1) 12-26, 2000.