

Maxillofacial Surgery

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Student: (from April) Yamato TOYOTA, Akiyo NORIME, Ami TSUYUZAKI, Mari SHIBATA, Narumi OSHIBE

Emeritus Professor: Teruo AMAGASA

Clinical professor: Masashi YAMASHIRO

Part-time Lecturer: Kazuki HASEGAWA, Hitoshi MIYAOKA, Hiroyuki WAKE, Takahumi YAMADA, Fumiaki SATO
Junichi ISHII, Eizi FUZII, Junzi KOBAYASHI, Akiko KOBAYASHI, Yasushi NIINAKA, Takao WATANABE
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(from January to April) Hiroshi IWAKI, (from April) Erika OUE

(1) Research

Research Subjects

- 1) Head and Neck Surgery: Innovation of management patients with benign and malignant tumors and cysts in oral and facial region.
- 2) Reconstructive Surgery: Developing method of correcting jaw, facial bone and facial soft tissue trouble left as the result of removal of disease or previous trauma.
- 3) Correction of Birth Defects: Improving surgically correction of birth defects of the face and skull, including cleft lip and palate.
- 4) Dentofacial Deformities and Orthognathic Surgery: Development of new surgical techniques to improving reconstruct and realign the upper and lower jaws.
- 5) Temporomandibular Joint Disorders: Renewing skills in the diagnosis and treatment due to temporomandibular joint problem.
- 6) Oral Mucosa Disease: Creation new method with light and color for diagnosis of oral mucosa disease, including leukoplakia and cancer.

(2) Lectures & Courses

Oral and maxillofacial surgery is a surgical specialty involving the diagnosis, surgical treatment and management of defects and injuries related to the function and aesthetics of the face and jaws. In order to practice the full scope of the specialty, oral and maxillofacial surgeons are required education in dentistry, medicine and surgery for regional requirement.

(3) Clinical Services & Other Works

Total number of new patients was 6480 for 2014. Number of In-patients was 719 and 489 operations were performed

(4) Clinical Performances

Clinical Services

- 1) Diagnosis, removing and reconstruction of jaw, oral or facial tumor or cyst.
- 2) Diagnosis and treatment of cleft lip and palate.
- 3) Treatment of jaw aligned with orthognathic surgery.
- 4) Therapy of temporomandibular disorder with or without temporomandibular joint surgery.
- 5) Diagnosis and treatment of oral mucosa disease.
- 6) Treatment of inflammation in the region jaw and facial trauma.
- 7) Extraction tooth including wisdom tooth.

(5) Publications**[Original Articles]**

1. Tomomatsu N, Uzawa N, Aragaki T, Harada K. Aperture width of the osteomeatal complex as a predictor of successful treatment of odontogenic maxillary sinusitis *Int J Oral Maxillofac Surg.* 2014; 43(11); 1386-1390
2. Sato Y, Mishimagi T, Katsuki Y, Harada K. Maxillary distraction osteogenesis for treatment of cleft lip and palate inpatient with X-linked agammaglobulinemia *J Oral Maxillofac Surg.* 2014; 72(7); 1396.e1-e-7
3. Harazono Y, Yamashiro M, Yoshitake Y, Kayamori K, Izumo T, Harada K. A case of highly suspected small cell osteosarcoma in the mandible *J of Oral and Maxillofacial Surgery, Medicine and Pathology.* 2014; 27(1); 38-40
4. Harazono Y, Nakajima K, Raz A. Why anti-Bcl-2 clinical trials fail: a solution *Cancer Metastasis Rev.* 2014; 33(1); 285-294
5. Harazono Y, Kho DH, Balan V, Nakajima K, Zhang T, Hogan V, Raz A. Galectin-3 leads to attenuation of apoptosis through Bax heterodimerization in human thyroid carcinoma cells *Oncotarget.* 2014; 5(20); 9992-10001
6. Nakajima K, Kho DH, Yanagawa T, Harazono Y, Gao X, Hogan V, Raz A. Galectin-3 inhibits osteoblast differentiation through notch signaling *Neoplasia.* 2014; 16(11); 939-949
7. Hayashi Y, Takeno H, Chinen T, Muguruma K, Okuyama K, Taguchi A, Takayama K, Yakushiji F, Miura M, Usui T, Hayashi Y. Development of a new benzophenone-diketopiperazine-type potent antimicrotubule agent possessing a 2-pyridine structure *ACS Med Chem Lett.* 2014; 5(10); 1094-1098
8. Yanamoto S, Yamada S, Takahashi H, Naruse T, Matsushita Y, Ikeda H, Shiraishi T, Seki S, Fujita S, Ikeda T, Asahina I, Umeda M. Expression of the cancer stem cell markers CD44v6 and ABCG2 in tongue cancer: Effect of neoadjuvant chemotherapy on local recurrence *International Journal of Oncology.* 2014; 44(4); 1153-1162
9. Aragaki T, Michi Y, Nakamura S, Toriihara A, Kayamori K, Harada K, Kurabayashi T. A case of Squamous Cell Carcinoma with Scattered Metastases *Open Journal of Radiology.* 2014; 4(3); 270-274

10. Kokai S, Fukuyama E, Sato Y, Hsu J-C, Takahashi Y, Harada K, Ono T. Comprehensive treatment approach for bilateral cleft lip and palate on an adult with premaxillary osteotomy, tooth autotransplantation, and 2-jaw surgery *American J of Orthodontics and Dentofacial Orthopedics*. 2014; 147(1); 114-126
11. Yamada T, Yamashiro M, Kawamata A, Katsuki Y, Uezono-Honda A, Kayamori K, Harada K. Transparotid excision of rhabdomyosarcoma in masseter muscle: A case report *J of Oral and Maxillofacial Surgery, Medicine and Pathology*. 2014; 27(1); 45-48

[Conference Activities & Talks]

1. Hiroyuki Yoshitake. Development of the new type mouth opening exercise device. Annual meeting of American Society of Temporomandibular joint Surgeons 2014.04.29
2. Yoshio Ohyama, Narikazu Uzawa, Yasuyuki Michi, Miho Suzuki, Masashi Yamashiro, Tomoyuki Yano, Kazuki Hasegawa, Kiyoshi Harada. Vascularized composite free flaps for mandibular defects. 64th Congress of the German Association of Oral and Maxillofacial Surgeons 2014.06
3. Hiroyuki Wake. Psychosomatic approach for the patient with TMDs & Psychological problems. 2014 Korean Incorporated Association for Temporomandibular Joint Spring conference & conference celebrating 2014.06.22
4. Yoshimasu H, Sato Y, Matsuda Y, Ohsato A, Mishimagi T, Katsuki Y, Harada K. Comprehensive treatment and oral health care for patients with cleft lip and palate. ICPF Workshop Cleft 2014 2014.09
5. Okuyama K, Michi Y, Yamashiro M, Harada K. Clinical study on mandibular bone fracture after marginal resection of the mandible. American Association of Oral and Maxillofacial Surgeons. 96th Annual Meeting, Scientific Sessions and Exhibition in Conjunction with the Japanese Society and Korean Association of Oral and Maxillofacial Surgeons 2014.09
6. Yoshio Ohyama. Vascularized composite free flap for mandibular defect. The 59th Congress of the Japanese Society of Oral & Maxillofacial Surgeons 2014.10