

## Maxillofacial Surgery

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Takeshi OKAMURA, Sou WAKE, Yuuta KONDOU, Masahiko TERAUCHI, Uyannga ENKHBOLD,  
Reiko HOSHI, Sakie KATSUMURA, Tomoki KANEMARU, Syun NISHIHARA, Erina TONOUCI,  
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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  
Testuo SUZUKI, Masayuki YAMANE, Takashi MISHIMAGI, Narihiro ABE,Erika OUE,Norihiro ENDO,  
(from April) Yasuhiro KURASAWA

### (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, facical 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 6312 of 2015.

**(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. Yamada C, Kaida A, Okuyama K, Harada K, Miura M. Effects of Chk1 inhibitor or paclitaxel on cisplatin-induced cell-cycle kinetics and survival in parental and cisplatin-resistant HeLa cells expressing fluorescent ubiquitination-based cell cycle indicator (Fucci) Integr Cancer Sci Therap. . 2015; 2(1); 87-92
2. Okuyama K, Kaida A, Hayashi Y, Hayashi Y, Harada K, Miura M . KPU-300, a novel benzophenone-diketopiperadine-type anti-microtubule agent with a 2-pyridine structure, is a potent radiosensitizer that synchronizes the cell cycle in early M phase. PLoS One. . 2015;
3. Tsuchida E, Kaida A, Pratama E, Ikeda MA, Suzuki K, Harada K, Miura M. Effect of X-Irradiation at Different Stages in the Cell Cycle on Individual Cell-Based Kinetics in an Asynchronous Cell Population. PLoS One. 2015.01; 10(6); e0128090
4. Uzawa N, Miura C, Suzuki M, Tomomatsu T, Izumo N, Harada K. Ameloblastic Carcinoma of Primary Type in the maxilla: a report of a case and review of literatures. Oncology Letters. 2015.01; 9 ( 1 ); 4 5 9- 4 6 7
5. Moriya Y, Uzawa N, Morita T, Mogushi K, Miyaguchi K, Takahashi K, Michikawa C, Sumino J, Tanaka H, Harada K. The high-temperature requirement factor A3 (HtrA3) is associated with the acquisition of the invasive phenotype of oral squamous cell carcinoma cells. Oral Oncology. 2015.01; 51(1); 84-9

**[Conference Activities & Talks]**

1. Okuyama K, Kaida A, Hayashi Y, Hayashi Y, Harada K, Miura M . A novel type of anti-microtubule agent, KPU-300, is a potent radiosensitizer through synchronization of the cell cycle at M-phase. . 15th International Congress of Radiation Research 2015.03.25 Kyoto,Japan
2. Masahiko Terauchi, Go Ikeda, Kei Nishida, Atsushi Tamura, Satoshi Yamaguchi, Kiyoshi Harada, Nobuhiko Yui. Design of sulfonated polyrotaxane mimicked the heparin and evaluation of osteoinductive ability with BMP-2. The 5th Asian Biomaterials Congress 2015.05.06 Taipei
3. Narikazu Uzawa, Yoshio Ohyama, Kunihiro Myo, Miho Suzuki, Yasuyuki Michi, Masashi Yamashiro, Kiyoshi Harada. Head and neck reconstruction with radical forearm, rectus abdominis, and scapula

flaps.. The Joint Meeting of 4th Congress of Asian Society of Head and Neck Oncology & 39th Annual Meeting of Japan society for Head and Neck Cancer. 2015.06.04

4. Kondo Y, Ohno T, Bhingare AC, Yagita H, Harada K, Azuma M. VISTA and CTLA-4 combination blockade enhances multifunctionality of tumor infiltrating CD8+ T cells. The 74th Annual Meeting of the Japanese Cancer Association 2015.10.08 Nagoya, Japan
5. Okuyama K, Kaida A, Hayashi Y, Hayashi Y, Harada K, Miura M. A Novel benzophenone-diketopiperadine-type anti-microtubule agent with a 2-pyridine structure, KPU-300, is a potent radiosensitizer through synchronization of the cell cycle at M-phase. . 22nd International Conference on Oral and Maxillofacial Surgery 2015.10.27 Melbourne
6. Masahiko Terauchi, Satoshi Yamaguchi, Kiyoshi Harada.. Design of sulfonated polyrotaxane mimicked the heparin and evaluation of osteoinductive ability with BMP-2. International Conference on Oral and Maxillofacial Surgery 2015 2015.10.27 Melbourne
7. Nishi N, Bhingare A, Ohno T, Kondo Y, Azuma M. Combinational immune checkpoint blockade with VISTA and CTLA-4 enhances anti-tumor responses. The 44th Annual Meeting of The Japanese Society for Immunology 2015.11.18 Sapporo
8. Nishi N, Bhingare A, Ohno T, Kondo Y, Azuma M. Endogenous and exogenous IL-33 promotes antitumor immunity. The 44th Annual Meeting of The Japanese Society for Immunology 2015.11.18 Sapporo
9. Masahiko Terauchi, Takasuke Inada, Tomoki Kanemaru, Kei Nishida, Atsushi Tamura, Satoshi Yamaguchi, Kiyoshi Harada, Nobuhiko Yui. Heparin-mimicking supramolecules for enhancing osteoinduction ability of bone morphogenetic protein-2. The 2015 International Chemical Congress of Basin Societies 2015.12.15 Honolulu

**[Awards & Honors]**

1. 15th International Congress of Radiation Research. Young Investigators Travel Award. , ICRR, 2015.03
2. 15th International Congress of Radiation Research. Excellent Poster Award, ICRR, 2015.03