

Medical and Dental Sciences

Maxillofacial Surgery

Professor: Tetsuya YODA

Associate Professor: Yoshiyuki SASAKI, (~ Jul.) Eriko MARUKAWA, (Nov. ~) Kei-ichi MORITA

Junior Associate Professor: (~ Oct.) Kei-ichi MORITA,

(Dec. ~) Hiroyuki YOSHITAKE

Assistant Professor:, (~ Nov.) Hiroyuki YOSHITAKE, (~ Mar.) Kouichi NAKAKUKI,

Namiaki TAKAHARA, Nobuyoshi TOMOMATSU,

(Apr. ~) Yosuke HARAZONO

Special Assistant Professor: Yasuhiro KURASAWA, Masahiko TERAUCHI, Hirokazu KACHI,

(Apr. ~) Erina TONOUCI, Takasuke INADA,

(~ Mar.) Yosuke HARAZONO, Tasuku KIHARA

Hospital Staff: Erina NAKAMURA, Tomomi SAKUMA, Atsushi KIMURA

(Apr. ~) Narumi OSHIBE, Shinpei TSUDA, Remi ISHIBASHI,

(~ Mar.) Chie AKATSU, Takahiko YAMADA, Kentaro SUGIYAMA, Daisuke YAMAMOTO

Graduate Student: Hiroki MASUDA, Yu AKAIKE, Hongfei ZHU, Noboru MARUTA,

Shintarou YAMAZAKI, Rina TAJIMA,

(Apr. ~) Karen KUROYAMA, Taishi NAKAMURA, Koutaro YAMAZAKI

Social Graduate Student: Mari SHIBATA, Eri SHIBATA, Takuya IWASAKI

Student: Chizuko KOMURO, Souichi ROKUSHIMA, Junya KUMAGAI, Yuuko KATSUKI,

(~ Mar.) Chika MIURA, Koutaro WACHI

Clinical professor: Hiroyuki WAKE

Part-time Lecturer: Masashi YAMASHIRO, Jin SATO, Hideo MIYACHI,

Akiko KOBAYASHI, Fumiaki SATO, Kazuhiro YAGIHARA, Yutaka SATO, Takashi MISHIMAGI,

Kazuto KUROHARA, Katuya AIKOU, Yoshio OHYAMA, Jyunichi TSUGAWA, Chieko MICHIKAWA,

Ryosuke NAGAOKA, Toshiyuki YAMADA, Katsuya HYODO,

(Apr. ~) Takahiko YAMADA, Daisuke YAMAMOTO,

(Dec. ~) Tomohisa KITAMURA

(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 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.

(4) Publications

[Original Articles]

1. Chigasaki O, Aoyama N, Sasaki Y, Takeuchi Y, Mizutani K, Ikeda Y, Gokyu M, Umeda M, Izumi Y, Iwata T, Aoki A. Porphyromonas gingivalis, the most influential pathogen in red-complex bacteria: A cross-sectional study on the relationship between bacterial count and clinical periodontal status in Japan. *Journal of Periodontology*. 2021.12; 92(12); 1719-1729
2. Yoshinori Arisaka, Hiroki Masuda, Tetsuya Yoda, Nobuhiko Yui. Delayed senescence of human vascular endothelial cells by molecular mobility of supramolecular biointerfaces *Macromolecular Bioscience*. 2021.12; 21(12); 2100216
3. ティーラウオン・チャンヤーヌット, 坂本 啓, 布川 裕規, 土谷 麻衣子, 栢森 高, 明石 巧, 濱垣 美和子, 富岡 博文, 黒嶋 雄志, 森田 圭一, 原田 浩之, 池田 通. 舌癌症例にみられるヒトパピローマウイルス (HPV) 感染と無関係な p16 免疫染色陽性反応 *口腔病学会雑誌*. 2021.11; 88(2-3); 115-126
4. Okumura T, Hara K, Nakane A, Namiki C, Nakagawa K, Yamaguchi K, Yoshimi K, Toyoshima M, Sasaki Y, Tohara H. Can Videofluoroscopic Swallowing Kinematic Analysis Predict Recovery of Oral Intake in Postoperative Oral Cancer Patients Requiring Nasogastric Tube Feeding? *Int J Environ Res Public Health*. 2021.11; 18(22);
5. Tomomatsu N, Takahara N, Nakakuki K, Kimura A, Kurasawa Y, Terauchi M, Yoda T. A study of unfavorable splits in the sagittal ramus osteotomy with a short lingual cut. *Int J Oral Maxillofac Surg*. 2021.10; 50(10); 1329-1335
6. Shibata E, Morita KI, Kayamori K, Tange S, Shibata H, Harazono Y, Michi Y, Ikeda T, Harada H, Imoto I, Yoda T. Detection of novel fusion genes by next-generation sequencing-based targeted RNA sequencing analysis in adenoid cystic carcinoma of head and neck. *Oral surgery, oral medicine, oral pathology and oral radiology*. 2021.10; 132(4); 426-433
7. Tomomatsu N, Takahara N, Kurasawa Y, Terauchi M, Iwasaki T, Yoda T. Three-dimensional changes in cystic lesions of the mandible after marsupialization *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology*. 2021.10;
8. Hakariya M, Arisaka Y, Masuda H, Yoda T, Tamura A, Iwata T, Yui N. Tissue Adhesion-Anisotropic Polyrotaxane Hydrogels Bilayered with Collagen Gels. 2021.10; 7(4); 168
9. Govitvattana N, Kaku M, Ohyama Y, Jaha H, Lin I, Mochida H, Pavasant P, Mochida Y. Molecular Cloning of Mouse Homologue of Enamel Protein C4orf26 and Its Phosphorylation by FAM20C. *Calcif Tissue Int*. 2021.10; 109(4); 445-454

10. Mochizuki Y, Marukawa E, Harada H, Kinoshita N, Nakatani R, Oikawa Y, Hirai H, Tomioka H, Yoda T, Nakamura S, Kurabayashi T. Postoperative morphological changes over time of vascularized scapular bone used for mandibular reconstruction: A retrospective cohort study. *Journal of plastic, reconstructive & aesthetic surgery : JPRAS.* 2021.09; 74(9); 1984-1990
11. Iwanaga J, Kim HJ, Wysiadecki G, Obata K, Harazono Y, Ibaragi S, Tubbs SR.. Localizing the nerve to the mylohyoid using the mylohyoid triangle. *Anat Cell Biol.* 2021.09; 54(3); 304-307
12. Enomoto A, Mano Y, Kawano Y, Nishikawa T, Aoyama T, Sasaki Y, Nagata M, Takahashi H. Comparison of the Safety and Effectiveness of Four Direct Oral Anticoagulants in Japanese Patients with Nonvalvular Atrial Fibrillation Using Real-World Data. *Biological and Pharmaceutical Bulletin.* 2021.09; 44(9); 1294-1302
13. Kurasawa Y, Yoshitake H, Tomomatsu N, Yoda T. Long-term follow-up after arthroplasty for pediatric temporomandibular joint ankylosis performed before the critical period of mandibular growth: A case report. *International journal of surgery case reports.* 2021.09; 86; 106330
14. Takahara N, Tomomatsu N, Hsieh D, Kurasawa Y, Morita KI, Yoda T. Short-Term Stability After Segmental Le Fort I Maxillary Impaction Surgery With Mandibular Autorotation in Seven High-Angle Class II Patients: A Case Series. *J Craniofac Surg.* 2021.08;
15. Yoshitake H, Kayamori K, Wake S, Sugiyama K, Yoda T. Biomarker expression related to chondromatosis in the temporomandibular joint. *Cranio : the journal of craniomandibular & sleep practice.* 2021.07; 39(4); 362-366
16. Harazono Y, Kayamori K, Sakamoto J, Akaike Y, Kurasawa Y, Tsushima F, Sasaki Y, Harada H, Yoda T. A retrospective analysis of schwannoma in the oral maxillofacial region: the clinicopathological characteristics and the specific pathology of ancient change *British Journal of Oral & Maxillofacial Surgery.* 2021.07;
17. Sekiya H, Kurasawa Y, Maruoka Y, Mukohyama H, Negishi A, Shigematsu S, Sugizaki J, Ohashi M, Hasegawa S, Kobayashi Y, Ueno M, Michiwaki Y. Cost-Effectiveness Analysis of Perioperative Oral Management after Cancer Surgery and an Examination of the Reduction in Medical Costs Thereafter: A Multicenter Study *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH.* 2021.07; 18(14);
18. Kim Y, Yagihara K, Yagishita H, Ishii J, Kanda H, Ishikawa A. Basaloid squamous cell carcinoma of the floor of the mouth: A case report with review of the literature. *Oral Science International.* 2021.07;
19. Kaida A, Yamamoto S, Parrales A, Young ED, Ranjan A, Alalem MA, Morita KI, Oikawa Y, Harada H, Ikeda T, Thomas SM, Diaz FJ, Iwakuma T. DNAJA1 promotes cancer metastasis through interaction with mutant p53. *Oncogene.* 2021.06;
20. Masuda H, Arisaka Y, Hakariya M, Iwata T, Yoda T, Yui N. Synergy of molecularly mobile polyrotaxane surfaces with endothelial cell co-culture for mesenchymal stem cell mineralization *RSC Advances.* 2021.06; 11(30); 18685-18692
21. Sekiya H, Kurasawa Y, Kaneko K, Takahashi K, Maruoka Y, Michiwaki Y, Takeda Y, Ochiai R. Preventive Effects of Sustainable and Developmental Perioperative Oral Management Using the "Oral Triage" System on Postoperative Pneumonia after Cancer Surgery *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH.* 2021.06; 18(12);
22. Kawasaki R, Sasaki Y, Nishimura T, Katagiri K, Morita KI, Sekine Y, Sawada S, Mukai S, Akiyoshi K. Magnetically Navigated Protein Transduction In Vivo using Iron Oxide-Nanogel Chaperone Hybrid *ADVANCED HEALTHCARE MATERIALS.* 2021.05; 10(9);
23. Miki K, Aizawa Y, Fujii S, Karakama J, Fujita K, Sasaki Y, Nemoto S, Sumita K. Combined Technique Thrombectomy with a Long Balloon-Guiding Catheter and Long Sheath Aids in Rapid and Stable Recanalization in Patients with Anterior Circulation Acute Ischemic Stroke *JNET: Journal of Neuroendovascular Therapy.* 2021.05; 15(5); 281-287
24. Arisaka Y, Hakariya M, Iwata T, Masuda H, Yoda T, Tamura A, Yui N. Surface-tethering of methylated polyrotaxanes with 4-vinylbenzyl groups onto poly(ether ether ketone) substrates for improving osteoblast compatibility. *Dental materials journal.* 2021.05; 40(3); 813-819

25. Ohyama Y, Yamashiro M, Michi Y, Uzawa N, Myo K, Sonoda I, Sumino J, Miura C, Mizutani M, Yamamoto D, Kayamori K, Yoda T. . Determination of Significant Prognostic Factors for Maxillary Gingival Squamous Cell Carcinoma in 90 Cases. *Indian Journal of Otolaryngology and Head & Neck Surgery*. 2021.04;
26. Iida T, Nakamura M, Inazawa M, Munetsugu T, Nishida M, Fujimoto T, Sasaki Y, Ohshima Y, Nakazato Y, Namiki T, Yokozeki H. Prognosis after steroid pulse therapy and seasonal effect in acquired idiopathic generalized anhidrosis. *The Journal of Dermatology*. 2021.03; 48(3); 271-278
27. Aragaki T, Tomomatsu N, Michi Y, Hosaka H, Fukai Y, Iijima M, Yoda T. Ramucirumab-related Oral Pyogenic Granuloma: A Report of Two Cases *Internal Medicine*. 2021.03;
28. Terauchi M, Michi Y, Hirai H, Sugiyama K, Wada A, Harada H, Yoda T. Prognostic factors in mucoepidermoid carcinoma of the minor salivary glands: A single-center retrospective study. *Oral surgery, oral medicine, oral pathology and oral radiology*. 2021.02; 131(2); 209-216
29. Sekiya-Aoyama R, Arisaka Y, Hakariya M, Masuda H, Iwata T, Yod T, Yui N. Dual effect of molecular mobility and functional groups of polyrotaxane surfaces on the fate of mesenchymal stem cells *Biomaterials Science*. 2021.02; 9(3); 675-684
30. Kayamori K, Tsuchiya M, Michi Y, Kuribayashi A, Mikami T, Sakamoto K, Yoda T, Ikeda T. Primordial odontogenic tumor occurred in the maxilla with unique calcifications and its crucial points for differential diagnosis. *Pathol Int*. 2021.01; 71(1); 80-87
1. SHIBTA Eri, OKUYAMA Kohei, MICHY Yasuyuki, SAKAMOTO Kei, HATADA Hiroyuki, YODA Tetsuya. A case of osteosarcoma of the mandible treated with surgical resections for pulmonary metastases *JAPANESE JOURNAL OF ORAL & MAXILLOFACIAL SURGERY*. 2021.06; 67(6); 353-358

[Misc]

1. Masahiko Terauchi, Atsushi Tamura, Yoshinori Arisaka, Hiroki Masuda, Tetsuya Yoda, Nobuhiko Yui. Cyclodextrin-based supramolecular complexes of osteoinductive agents for dental tissue regeneration. *Pharmaceutics*. 2021.01; 13(2); 136

[Awards & Honors]

1. The 1st runner-up prize for the Oral Paper Competition, 14th Asian Congress on Oral & Maxillofacial Surgery, 2021.06