

Medical and Dental Sciences



# Maxillofacial Surgery

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## (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 injures 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. Nguyen CTK, Sawangarun W, Mandasari M, Morita KI, Harada H, Kayamori K, Yamaguchi A, Sakamoto K. AIRE is induced in oral squamous cell carcinoma and promotes cancer gene expression. *PloS one.* 2020; 15(2); e0222689
2. Kaneko A, Marukawa E, Harada H. Hydroxyapatite Nanoparticles as Injectable Bone Substitute Material in a Vertical Bone Augmentation Model IN VIVO. 2020; 34(3); 1053-1061
3. Mikami R, Mizutani K, Sasaki Y, Iwata T, Aoki A. Patient-reported outcomes of laser-assisted pain control following non-surgical and surgical periodontal therapy: A systematic review and meta-analysis. *PloS one.* 2020; 15(9); e0238659
4. Shibata E, Morita K, Kayamori K, Maruiwa M, Michi Y, Sato Y, Takeuchi K, Ikeda T, Harada H, Yoda T. Report Secretory carcinoma around Stensen's duct misdiagnosed as salivary duct cyst *INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL PATHOLOGY.* 2020; 13(8); 2211-2217
5. Yamada, T, Takechi M (Co-first), Yokoyama N, Hiraoka Y, Ishikubo H, Usami T, Furutera T, Taga Y, Hirate Y, Kanai-Azuma M, Yoda T, Ogawa-Goto K, Iseki S. Heterozygous mutation of the splicing factor Sf3b4 affects development of the axial skeleton and forebrain in mouse. *Developmental Dynamics.* 2020.01;
6. Dulguun B, Akiko K, Kumagai J, Yamaguchi S, Yoda T. Clinical observation of patients with inferior alveolar nerve sensory disturbance *JOURNAL OF ORAL SCIENCE.* 2020.01; 62(1); 112-118
7. Kim Yusoon, Hayashi Mikihiro, Ono Takehito, Yoda Tetsuya, Takayanagi Hiroshi, Nakashima Tomoki. Suppression of hematopoietic cell kinase ameliorates the bone destruction associated with inflammation(和訳中) *Modern Rheumatology.* 2020.01; 30(1); 85-92
8. Fukushima Y, Kitamura T, Ikami E, Yumoto M, Sano Y, Sato T, Yoda T. A case of burning mouth syndrome leading to suicide 10 days after self-cutting of tongue *Psychogeriatrics.* 2020.01; 20(1); 126-128
9. Yamamoto D, Kayamori K, Sakamoto K, Tsuchiya M, Ikeda T, Harada H, Yoda T, Watabe T, Hara-Yokoyama M. Intracellular claudin-1 at the invasive front of tongue squamous cell carcinoma is associated with lymph node metastasis. *Cancer Sci.* 2020.02; 111(2); 700-712
10. Yagihara K, Ishii J, Shibata M, Anzai E, Yagishita H, Ishikawa A. A case of carcinoma ex pleomorphic adenoma occurred in the sublingual gland *Oral science international.* 2020.02; 17(3); 174-178
11. Yoshinori Arisaka, Hiroki Masuda, Tetsuya Yoda, Nobuhiko Yui. Simple treatment of cell culture surfaces with water-dimethyl sulfoxide mixtures impacts YAP localization in vascular endothelial cells *Materials Letters.* 2020.03; 263; 127245
12. Yokokawa M, Morita KI, Oikawa Y, Kayamori K, Sakamoto K, Ikeda T, Harada H. Co-expression of EGFR and MET has a synergistic effect on the prognosis of patients with oral squamous cell carcinoma *J Oral Pathol Med.* 2020.03; 49(3); 235-242

13. Yahara H, Horita S, Yanamoto S, Kitagawa Y, Asaka T, Yoda T, Morita K, Michi Y, Takechi M, Shimasue H, Maruoka Y, Kondo E, Kusukawa J, Tsujiguchi H, Sato T, Kannon T, Nakamura H, Tajima A, Hosomichi K, Yahara K. A Targeted Genetic Association Study of the Rare Type of Osteomyelitis. *J Dent Res.* 2020.03; 99(3); 271-276
14. Kurasawa Y, Maruoka Y, Sekiya H, Negishi A, Mukohyama H, Shigematsu , Sugizaki J, Karakida K, Ohashi M, Ueno M, Michiwaki Y. Pneumonia prevention effects of perioperative oral management in approximately 25,000 patients following cancer surgery. *Clin Exp Dent Res.* 2020.04; 6(2); 165-173
15. Masuda H, Arisaka Y, Sekiya-Aoyama R, Yoda T, Yui N. Biological Effects of Polyrotaxane Surfaces on Cellular Responses of Fibroblast, Preosteoblast and Preadipocyte Cell Lines. *Polymers (Basel).* 2020.04; 12(4);
16. Hirai H, Ohsako T, Kugimoto T, Tomioka H, Michi Y, Kayamori K, Yoda T, Miura M, Yoshimura R, Harada H. Comparison of 50- and 66-Gy total irradiation doses for postoperative cervical treatment of patients with oral squamous cell carcinoma. *Oral oncology.* 2020.04; 107; 104708
17. Kitamura T, Tomoda,T Ikami E, Hayash N,Horishima Y, Yokota K, Mimura T, Fukushima Y, Yoda T, Sato T,. A case of giant cell arteritis with jaw claudication and trismus treated with early steroid therapy *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology.* 2020.05; 32(1); 222-225
18. Takahara N, Kimura A, Tomomatsu N, Nakakuki K, Yoda T. Does the amount of mandibular setback during bimaxillary surgery correlate with the degree of surgical relapse? *Oral surgery, oral medicine, oral pathology and oral radiology.* 2020.05; 129(5); 447-452
19. Tomoda K , Sato T, Ikami E, Fukushima Y, S Kokabub S, Yoda T. Contact co-culture of osteoblasts and sympathetic neuronal cells enhances osteoblast differentiation *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology.* 2020.07; 32(4); 307-312
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23. Yoda T, Ogi N, Yoshitake H, Kawakami T, Takagi R, Murakami K, Yuasa H, Kondoh T, Tei K, Kurita K. Clinical guidelines for total temporomandibular joint replacement. *Jpn Dent Sci Rev.* 2020.11; 56(1); 77-83
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25. Mizutani K, Mikami R, Gohda T, Gotoh H, Aoyama N, Matsuura T, Kido D, Takeda K, Izumi Y, Sasaki Y, Iwata T. Poor oral hygiene and dental caries predict high mortality rate in hemodialysis: a 3-year cohort study. *Scientific reports.* 2020.12; 10(1); 21872
26. 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. *Journal of Neuroendovascular Therapy.* 2020.12;