

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 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. Masahiro Hakariya, Yoshinori Arisaka, Hiroki Masuda, Tetsuya Yoda, Takanori Iwata, Nobuhiko Yui. Suppressed Migration and Enhanced Cisplatin Chemosensitivity in Human Cancer Cell Lines by Tuning the Molecular Mobility of Supramolecular Biomaterials. *Macromolecular Bioscience*. 2022.12; e2200438
2. N Yamakawa, M Umeda, Y Yoshii, K Mitsudo, M Noguchi, J Kusukawa, A Katakura, H Nakayama, M Sasaki, T Noguchi, M Ueda, H Bukawa, K Yagihara, A Horie, A Miyazaki, D Chikazu, K Tomihara, K Mishima, M Otsuru, S Asoda, S Fujiwara, Y Ohyama, H Kurita, H Kawamata, M Fukuda, Y Shintani, T Kobayashi, T Kanno, I Oh-Iwa, K Kawano, Y Yamashita, W Kobayashi, Y Ohiro, K Uzawa, Y Ota, T Kirita. Multicenter retrospective study of nivolumab for recurrent/metastatic oral squamous cell carcinoma. *Oral Dis*. 2022.12;
3. Y Kurasawa, A Iida, K Narimatsu, H Sekiya, Y Maruoka, Y Michiwaki. Effects of Perioperative Oral Management in Patients with Cancer *JOURNAL OF CLINICAL MEDICINE*. 2022.11; 11(21);
4. M Shibata, A Ishikawa, J Ishii, E Anzai, H Yagishita, T Izumo, J Sumino, M Katsurano, Y Kim, H Kanda, M Ushijima, K Yagihara, T Yoda. Stiffness as measured with strain elastography is a prognostic factor for pT1/T2 tongue squamous cell carcinoma with muscle-layer invasion. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2022.11; 22;
5. M Shibata, K Yagihara, J Ishii, H Kanda, A Ishikawa. Two cases of secretory carcinoma in the minor salivary glands *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology*. 2022.11; 34; 850-857
6. N Takahara, S Nakagawa, K Sumikura, T Yoda. Comparison of magnetic resonance imaging findings in patients with intermittent closed lock and acute closed lock of the temporomandibular joint: a cross-sectional retrospective study. *Oral Radiol*. 2022.10;
7. Yuka Tanaka-Takemura, Yoshinori Arisaka, Masahiro Hakariya, Hiroki Masuda, Ryo Mikami, Ruriko Sekiya-Aoyama, Takanori Iwata, Tetsuya Yoda, Takashi Ono, Nobuhiko Yui. Independent roles of molecular mobility and zeta potential on supramolecular surfaces in the sequence of RAW264.7 macrophage responses *Macromolecular bioscience*. 2022.09; in press(11); e2200282
8. C Michikawa, V Gopalakrishnan, AM Harrandah, TV Karpinets, RR Garg, RA Chu, YP Park, SS Chukkapallia, N Yadlapalli, KC Erikson-Carter, FO Gleber-Netto, E Sayour, A Progulske-Fox, EKI Chan, X Wu, J Zhang, C Jobin, JA Wargo, CR Pickering, JN Myers, N Silver. *Fusobacterium* is enriched in oral cancer and promotes induction of programmed death-ligand 1 (PD-L1). *Neoplasia*. 2022.09; 31; 100813

9. Yoshinori Arisaka, Hiroki Masuda, Tetsuya Yoda, Nobuhiko Yui. Phototethering of collagen onto polyetheretherketone surfaces to enhance osteoblastic and endothelial performance *Macromolecular Bioscience*. 2022.08; 22(8); 2200115
10. J Iwanaga, S Ibaragi, T Okui, V Divi, Y Ohyama, K Watanabe, J Kusukawa. Cutaneous branch of the nerve to the mylohyoid muscle: Potential cause of postoperative sensory alteration in the submental area. *Ann Anat*. 2022.08; 243; 151934
11. N Tomomatsu, N Takahara, K Nakakuki, Y Kurasawa, T Iwasaki, T Yoda. Study of Morphological Changes in the Inferior Turbinate After Le Fort I Osteotomy. *The Journal of craniofacial surgery*. 2022.06;
12. Shigehiro Abe, Atsushi Kaida, Kazunori Kanemaru, Keiichiro Nakazato, Naoko Yokomizo, Yutaka Kobayashi, Masahiko Miura, Toshio Miki, Chiaki Hidai, Hisataka Kitano, Tetsuya Yoda. Differences in the stemness characteristics and molecular markers of distinct human oral tissue neural crest-derived multilineage cells. *Cell Prolif*. 2022.06; e13286
13. Y Kim, K Yagihara, J Sumino, M Katsurano, M Shibata, K Kadoya, A Ishikawa. Squamous cell carcinoma of the tongue in von Recklinghausen's disease: A case report *Oral and Maxillofacial Surgery Cases*. 2022.06; 8(2); 100255
14. N Takahara, N Tomomatsu, A Kimura, M Kosugi, Y Kurasawa, K Morita, T Yoda. Changes in the condylar volume and skeletal relapse following orthognathic surgery in patients with dentofacial deformity: A retrospective study. *Cranio*. 2022.05; 1-11
15. M Shibata, A Ishikawa, J Ishii, E Anzai, H Yagishita, T Izumo, J Sumino, M Katsurano, Y Kim, H Kanda, M Ushijima, K Yagihara, T Yoda. Stiffness of tongue squamous cell carcinoma measured using strain elastography correlates with the amount of collagen fibers in the tumor. *Oral Radiol*. 2022.04; 38(2); 278-287
16. M Shibata, N Takahara, N Tomomatsu, Y Kurasawa, Y Sasaki, T Yoda. Risk factors of neurosensory disturbances at 1 year postoperatively after bilateral sagittal split osteotomy *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology*. 2022.04;
17. M Yumoto, Y Mizuno, Y Isozaki, KO Ito, T Yoda, T Sato. Analysis of Masticatory Muscle Tendon-aponeurosis Hyperplasia by Using Next-generation Sequencing. *In vivo (Athens, Greece)*. 2022.03; 36(2); 563-569
18. M Terauchi, E Marukawa, K Hyodo, T Iwasaki, A Wada, H Harada, T Yoda. Conservative surgical treatment of odontogenic myxoma with preservation of the inferior alveolar nerve *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology*. 2022.03; 34(2); 156-163
19. D Husein, A Alamoudi, Y Ohyama, H Mochida, B Ritter, Y Mochida. Identification of the C-terminal region in Amelogenesis Imperfecta causative protein WDR72 required for Golgi localization. *Sci Rep*. 2022.03; 12(1); 4640
20. Y Harazono, K Morita, E Tonouchi, E Anzai, N Takahara, T Kohmoto, I Imoto, T Yoda. TP63 mutation mapping information in TP63 mutation-associated syndromes *Advances in Oral and Maxillofacial Surgery*. 2022.01; 5;
21. Yasuyuki Michi, Hiroyuki Harada, Yu Oikawa, Kohei Okuyama, Takuma Kugimoto, Takeshi Kuroshima, Hideaki Hirai, Yumi Mochizuki, Hiroaki Shimamoto, Hirofumi Tomioka, Hirokazu Kachi, Jun-Ichiro Sakamoto, Kou Kayamori, Tetsuya Yoda. Clinical manifestations of diffuse large B-cell lymphoma that exhibits initial symptoms in the maxilla and mandible: a single-center retrospective study. *BMC Oral Health*. 2022.01; 22(1); 20
22. T Aragaki, S Nakamura, K Sakamoto, M Suzuki, T Yoda, T Kurabayashi. MRI findings of a dermoid cyst in the floor of the mouth with "sac of marbles" sign: An immunohistopathological study(和訳中) *Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology*. 2022.01; 34(1); 80-84
23. Yosuke Harazono, Kou Kayamori, Junichiro Sakamoto, Yu Akaike, Yasuhiro Kurasawa, Fumihiko Tsushima, Yoshiyuki Sasaki, Hiroyuki Harada, Tetsuya Yoda. Retrospective analysis of schwannoma in the oral and maxillofacial region: clinicopathological characteristics and specific pathology of ancient change. *Br J Oral Maxillofac Surg*. 2022.01; 60(3); 326-331

24. C Michikawa, PA Torres-Saavedra, NL Silver, PM Harari, MS Kies, DI Rosenthal, QT Le, RC Jordan, DY Duose, S Mallampati, S Trivedi, R Luthra, II Wistuba, AA Osman, O Lichtarge, RL Foote, U Parvathaneni, DN Hayes, CR Pickering, JN Myers. Analysis in Pathologically High-Risk Human Papillomavirus-Negative Head and Neck Cancer From a Phase 2 Clinical Trial: NRG Oncology Radiation Therapy Oncology Group 0234. *Adv Radiat Oncol.* 2022; 7(6); 100989
25. Y Ohyama, M Ogawa, S Yokoo. Novel Management for Severe Odontogenic Maxillary Sinusitis Based on Pathophysiology. *Case Rep Dent.* 2022; 2022; 1614739

#### [Books etc]

1. Japanese Society of Oral and Maxillofacial Surgeons. Hand Manual of Oral & Maxillofacial Surgery '22. Quintessence Publishing, 2022.07 (ISBN : 978-4-7812-0885-5)

#### [Conference Activities & Talks]

1. T Namiaki. Surgical treatment strategies for skeletal class II patients based on Temporomandibular Joint Morphology. The 12th International Conference on Dental Science and Education 2022 at School of Dentistry, Hanoi Medical University, Vietnam 2022.12.07 Hanoi, Vietnam
2. 高原 楠旻. 下顎枝矢状分割術における Superfixsorb® Mx SSRO プレートの使用経験. 帝人メディカルテクノロジー株式会社 2022.11 帝人メディカルテクノロジー株式会社
3. M Terauchi, K Narita, S Yamanaka, T Yoda, E Marukawa. Amorphous Mg-Ca Coatings for Hydrophilicity Protection of Dental Implant Surfaces. The 2nd International Symposium on Design & Engineering by Joint Inverse Innovation for Materials Architecture (DeJI2MA) 2022.10.25 東京
4. 高原 楠旻. 2 級症例に対する私の取り組み. ジョンソン・エンド・ジョンソン株式会社 2022.06
5. T Tsujikawa, K Ohno, S Saburi, J Mitsuda, K Yoshimura, A Kimura, H Morimoto, G Ohmura, A Arai, H Ogi, S Shibata, Y Ariizumi, A Tasaki, R Takahashi, Y Tateishi, H Kawabe, S Ikeda, K Morita, T Tsunoda, T Akashi, M Kurata, I Imoto, Y Shimizu, A Watanabe, Y Asada, R Hayashi, Y Saito, H Ozawa, K Tsukahara, N Oridate, A Horii, T Maruo, N Hanai, H Inohara, H Iwai, T Fujii, K Nibu, S Iwae, T Ueda, R Yasumatsu, H Umeno, M Masuda, K Itoh, S Hirano, T Asakage. Tumor immune characterization identifies age-stratified biomarkers for nivolumab in patients with head and neck squamous cell carcinoma: A nationwide collaborative study in Japan. American Association for Cancer Research (AACR) Annual Meeting 2022; 2022 Apr 8-13. 2022.04.08 Philadelphia (PA)
1. Kano S, Hikita R, Kobayashi Y, Tomomatsu N, Yoda T, Moriyama K. A case of mandibular retrognathia with maxillary transverse deficiency treated by SARPE and SSRO. The 81st Annual Meeting of the Japanese Orthodontic Society & The 9th Joint Symposium of the Japanese Orthodontic Society and Korean Association of orthodontists 2022.10.05
2. Miyazaki T, Kadota C, Tsunashima A, Tomomatsu N, Yoda T, Higashihori N, Moriyama K. An asymmetric mandibular prognathism case with reverse occlusal cant treated by SSRO and mandibular recontouring. The 81st Annual Meeting of the Japanese Orthodontic Society & The 9th Joint Symposium of the Japanese Orthodontic Society and Korean Association of orthodontists 2022.10.05
3. Hiroyuki YOSHITAKE. Cadaver Surgical Training for Total Joint Replacement of Temporomandibular Joint. 2022.08.27