

Medical and Dental Sciences

Maxillofacial Surgery

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Takashi MISHIMAGI, Kazuto KUROHARA,

Katuya AIKOU, Yosio OYAMA, Shigehiro ABE,

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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. Tomoki Kanemaru, Yoshio Ohyama, Kazuhiro Aoki, Atsushi Tamura, Nobuhiko Yui, Satoshi Yamaguchi, Yoshiyuki Mochida. Modulation of Matrix Mineralization by von Willebrand Factor C Domain Containing 2 in Vivo and in Vitro *J Oral Tissue Engin* . 2018; 15(3); 131-142
2. Yoshitake H. Development of the new instrument for measurement of mouth opening and mandibular movement. *Journal of Oral and Maxillofacial Surgery, Medicine and Pathology..* 2018; 30; 488-491
3. Yoshitake H. Development and clinical application of a new mouth-opening exercise device that induces a protrusive sliding movement of the mandibular condyle and increases the hinge mobility of the temporomandibular joint *Journal of Oral and Maxillofacial Surgery, Medicine and Pathology..* 2018; 31; 131-134
4. Takasuke Inada, Atsushi Tamura, Masahiko Terauchi, Satoshi Yamaguchi, Nobuhiko Yui. A silencing-mediated enhancement of osteogenic differentiation by supramolecular ternary siRNA polyplexes comprising bio-cleavable cationic polyrotaxanes and anionic fusogenic peptides. *Biomaterials Science.* 2018.02; 6(2); 440-450
5. Ohata Y, Tsuchiya M, Hirai H, Yamaguchi S, Akashi T, Sakamoto K, Yamaguchi A, Ikeda T, Kayamori K. Leukemia inhibitory factor produced by fibroblasts within tumor stroma participates in invasion of oral squamous cell carcinoma. *PLoS ONE.* 2018.02; 13(2); e0191865
6. Hayashi N, Sato T, Fukushima Y, Takano A, Sakamoto I, Yoda T. A two-year follow-up of surgical and non-surgical treatments in patients with masticatory muscle tendon-aponeurosis hyperplasia *International Journal of Oral and Maxillofacial Surgery.* 2018.02; 47(2); 199-204
7. Kanai Y, Nishihara H, Miyagi Y, Tsuruyama T, Taguchi K, Katoh H, Takeuchi T, Gotoh M, Kuramoto J, Arai E, Ojima H, Shibuya A, Yoshida T, Akahane T, Kasajima R, Morita K, Inazawa J, Sasaki T, Fukayama M, Oda Y. The Japanese Society of Pathology Guidelines on the handling of pathological tissue samples for genomic research: Standard operating procedures based on empirical analyses *Pathology International.* 2018.02; 68(2); 63-90
8. Shibata M, Yoshitake H, Terauchi M, Akane Yukimori A, Yamaguchi S. Submandibular triangle cavernous hemangioma: Case report and review of literature *Journal of Oral and Maxillofacial Surgery, Medicine and Pathology.* 2018.03; 30; 353-358
9. Tonouchi E, Gen Y, Muramatsu T, Hiramoto H, Tanimoto K, Inoue J, Inazawa J. miR-3140 suppresses tumor cell growth by targeting BRD4 via its coding sequence and downregulates the BRD4-NUT fusion oncoprotein. *Scientific reports.* 2018.03; 8(1); 4482

10. Sano Y, Kogashiwa Y, Araki R, Enoki Y, Ikeda T, Yoda T, Nakahira M, Sugawara M. Correlation of Inflammatory Markers, Survival, and COX2 Expression in Oral Cancer and Implications for Prognosis Otolaryngology-Head and Neck surgery. 2018.04; 158(4); 667-676
11. Hayashi N, Sato T, Kokabu S, Usui M, Yumoto M, Ikami E, Sakamoto Y, Nifuji A, Hayata T, Noda M, Yoda T. Possible association of oestrogen and Cryba4 with masticatory muscle tendon-aponeurosis hyperplasia. Oral diseases. 2018.04;
12. Masahiko Terauchi, Atsushi Tamura, Satoshi Yamaguchi, Nobuhiko Yui. Enhanced cellular uptake and osteogenic differentiation efficiency of melatonin by inclusion complexation with 2-hydroxypropyl - cyclodextrin. International Journal of Pharmaceutics. 2018.05; 547(1-2); 53-60
13. Usumi-Fujita R, Nakakuki K, Fujita K, Kosugi M, Yonemitsu I, Fukuyama E, Ono T. Collaborative treatment for a case of condylar hyperplastic facial asymmetry. The Angle orthodontist. 2018.07; 88(4); 503-517
14. Okuyama K, Yamashiro M, Kaida A, Kawamata A, Mizutani M, Michi Y, Uzawa N, Yano T, Tohyama R, Yamaguchi S. Does a Vascularized Fibula Free Bone Grafted Immediately After Hemimandibulectomy in a Child Grow or Relapse During Adolescence? The Journal of craniofacial surgery. 2018.07; 29(5);
15. Michikawa C, Izumo T, Sumino J, Morita T, Ohyama Y, Michi Y, Uzawa N. Small size of metastatic lymph nodes with extracapsular spread greatly impacts treatment outcomes in oral squamous cell carcinoma patients International Journal of Oral and Maxillofacial Surgery. 2018.07; 47(7); 830-835
16. Sato T, Okubo M, Hayashi N, Yumoto M, Fukushima Y, Yoda T. Osteonecrosis of the jaw with pancytopenia in a patient receiving methotrexate for rheumatoid arthritis without antiresorptive or antiangiogenic agents: Report of a case Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. 2018.09; 30(5); 418-421
17. Kurohara K, Michi Y, Yukimori A, Yamaguchi S. The glomus tumor resorbed bone and teeth in the mandible: a case report Head and Face Medicine. 2018.09; 14(18);
18. Kim Y, Hayashi M, Ono T, Yoda T, Takayanagi H, Nakashima T. Suppression of hematopoietic cell kinase ameliorates the bone destruction associated with inflammation. Modern rheumatology. 2018.11; 1-17
19. Sawangarun Wanlada, Mandasari Masita, Aida Junko, Morita Kei-ichi, Kayamori Kou, Ikeda Tohru, Sakamoto Kei. Loss of Notch1 predisposes oro-esophageal epithelium to tumorigenesis EXPERIMENTAL CELL RESEARCH. 2018.11; 372(2); 129-140
20. Tomomatsu N, Kurohara K, Nakakuki K, Yoshitake H, Kanemaru T, Yamaguchi S, Yoda T. Influence of the anatomical form of the posterior maxilla on the reliability of superior maxillary repositioning by Le Fort I osteotomy. International Journal of Oral and Maxillofacial Surgery. 2018.11;
21. Kitamura T, Sato T, Ikami E, Fukushima Y, Yoda T. A case of a patient who is diagnosed with mild acquired hemophilia A after tooth extraction died of acute subdural hematoma due to head injury Case Rep Dent. 2018.12;
22. Kurohara K, Tomomatsu N, Nakakuki K, Sakuma T, Arai N, Yoda T. Treatment of refractory non-union after maxillary osteotomy: A case report. Journal of stomatology, oral and maxillofacial surgery. 2018.12;
23. Hoshi R, Tetsumura A, Yamaguchi S. Preoperative imaging findings as predictors of postoperative inferior alveolar nerve injury following mandibular cyst surgery. Journal of Oral Science. 2018.12; 60(4); 618-625

[Misc]

1. Kato T, Morita H, Tsuzuki T, Yamaguchi M, Ohta H, Tanoue D, Nakakuki K. Emerging role of dental professionals in collaboration with medical personnel in disaster relief following the 2016 Kumamoto earthquakes: implications for the expanding scope of dental practice. International dental journal. 2018.06;

[Conference Activities & Talks]

1. NAKAZATO Keiichiro, UZAWA Narikazu, KAYAMORI Kou, TSUCHIYA Maiko, WATANABE Hiroshi, SUMINO Jun, MICHI Yasuyuki, YAMAGUCHI Satoshi. The Change of Metabolic Control Mechanism in the Development and Progress of the Tongue Carcinoma. 2018.01.25 Niigata, Japan
2. Ogasawara T, Uezono M, Takakuda K, Kikuchi M, Suzuki S, Moriyama K. Shape optimization of subperiosteal devices using finite element analysis. The 11th Asian Pacific Orthodontic Conference(APOC 2018) Residents ' Forum 2018.03.04 Boracay, Phillipines
3. Baba Y, Ogawa T, Uezono M, Mibu M, Sumita Y, Mishimagi T, Sato Y, Morita K, Moriyama K. Changes of pharyngeal morphology and speech function after maxillary distraction in two cases of CLP. The 42nd Annual Meeting of Japanese Cleft Palate Association 2018.05.24 Osaka
4. Hiroyuki YOSHITAKE. Diagnosis and treatment of Synovialchondromatosis of Temporomandibular Joint (TMJ). 2018.07.07
5. Hiroyuki YOSHITAKE. Clinical application of the Yasec Mouth-opening Exercise Device. 2018.07.07
6. Takahara N, Kimura A, Higuchi Y, Kabasawa Y, Yoda T. Evaluation of postoperative mandibular stability after bimaxillary surgery for mandibular prognathism depending on the amount of mandibular setback and the clockwise rotation of the proximal segment. 24th Congress of the European Association for Cranio Maxillo Facial Surgery 2018.09
7. Hyodo K, Arisaka Y, Yamaguchi S, Yui N. Design of sulfonated polyrotaxane surfaces to activate vascular endothelial cells. 5th TERMIS World Congress 2018.09.05
8. Yoshitake H. Clinical application of the New Temporomandibular Joint (TMJ) Rehabilitation device.. 24th Congress of the European Association for Cranio Maxillo-Facial Surgery. 2018.09.18
9. Shibata E, Morita K, Kayamori K, Maruiwa M, Michi Y, Sato Y, Takeuchi K, Ikeda T, Harada H, Yoda T. A case of mammary analogue secretory carcinoma in salivary duct of parotid gland. 13th Asian Congress on Oral and Maxillofacial Surgery (ACOMS) 2018.11
10. Namiaki Takahara, Atsushi Kimura, Yusuke Higuchi, Yuji Kabasawa, Tetsuya Yoda. Accuracy of maxillary repositioning using vertical positionig devices in Le Fort I osteotomy. 2018.11.03
11. Eri SHIBATA, Kei-ichi MORITA, Yasuyuki MICHI, Tetsuya YODA. A case of Mammary Analogue Secretory Carcinoma in Salivary Duct of Parotid Gland. 13th Asian Congress on oral and maxillofacial surgery 2018.11.08 台北
12. Katsuya Hyodo, Yoshinori Arisaka, Satoshi Yamaguchi, Tetsuya Yoda, Nobuhiko Yui. Induction of vascular network in vitro on polyrotaxane surfaces with vascular endothelial growth factors. 13th Asian Congress on Oral and Maxillofacial Surgery 2018.11.10