

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. Oikawa Y, Morita KI, Kayamori K, Tanimoto K, Sakamoto K, Katoh H, Ishikawa S, Inazawa J, Harada H. Receptor tyrosine kinase amplification is predictive of distant metastasis in patients with oral squamous cell carcinoma. *Cancer Science*. 2017.02; 108(2); 256-266
2. Nguyen CT, Okamura T, Morita KI, Yamaguchi S, Harada H, Miki Y, Izumo T, Kayamori K, Yamaguchi A, Sakamoto K. LAMC2 is a predictive marker for the malignant progression of leukoplakia. *Journal of Oral Pathology & Medicine*. 2017.03; 46(3); 223-231
3. 加地 博一, 丸山 緑子, 丸山 史人, 芝 多佳彦, 渡辺 孝康, 郷田 瑛, 村瀬 一典, 道 泰之, 竹内 康雄, 和泉 雄一, 山口 聡, 中川 一路. 細菌活動性から顕在化するインプラント周囲炎および歯周炎の疾患特異的な細菌群集内の共起構造 口腔病学会雑誌. 2017.03; 84(1); 25-36
4. Akane Yukimori, Yu Oikawa, Kei-Ichi Morita, Chi Thi Kim Nguyen, Hiroyuki Harada, Satoshi Yamaguchi, Kou Kayamori, Akira Yamaguchi, Tohru Ikeda, Kei Sakamoto. Genetic basis of calcifying cystic odontogenic tumors. *PLoS ONE*. 2017.06; 12(6); e0180224
5. Yukimori A, Oikawa Y, Morita KI, Nguyen CTK, Harada H, Yamaguchi S, Kayamori K, Yamaguchi A, Ikeda T, Sakamoto K. Genetic basis of calcifying cystic odontogenic tumors. *PLoS One*. 2017.06; 12(6); e0180224
6. Md Zahirul Haque Bhuyan, Yukihiro Tamura, Eri Sone, Yuki Yoshinari, Chizuko Maeda, Mariko Takahashi, Yasuhiko Tabata, Ramachandran Murali, Yoshihiro Waki, Kazuhiro Aoki. The intra-articular injection of RANKL-binding peptides inhibits cartilage degeneration in a murine model of osteoarthritis. *J. Pharmacol. Sci.*. 2017.06; 134(2); 124-130
7. J Sumino, N Uzawa, Y Ohyama, Y Michi, A Kawamata, M Mizutani, M Yamashiro. First signs of late-presenting cervical lymph node metastasis in oral cancers during follow-up. *Int J Oral Maxillofac Surg*. 2017.06; 46(6); 676-681
8. Y Ohyama, N Uzawa, M Yamashiro, S Yamaguchi. Congenital lipoma of the hard palate: case report. *Br J Oral Maxillofac Surg*. 2017.07; 55(6); 626-627
9. 隅田由香, 原口美穂子, 服部麻里子, 乙丸貴史, 村瀬舞, 吉志元, 山口聡, 原田浩之, . イミディエイトサージカルオブチュレータ (ISO) 製作のコンセプトについて 頭頸部癌. 2017.10; 43; 95-99
10. Syun Nishihara, Mami Ikeda, Hitoshi Ozawa, Masako Akiyama, Satoshi Yamaguchi, Ken-Ichi Nakahama. Role of cAMP in phenotypic changes of osteoblasts. *Biochem. Biophys. Res. Commun.*. 2017.11;
11. Ogasawara T, Uezono M, Takakuda K, Kikuchi M, Suzuki S, Moriyama K. Shape Optimization of Bone-Bonding Subperiosteal Devices with Finite Element Analysis *BioMed Research International*. 2017.11; 2017; 3609062

12. Kim Y, Okuyama K, Michi Y, Ohyama Y, Uzawa N, Yamaguchi S. Potential factors influencing the development of oral tongue squamous cell carcinoma in young mature patients: Lingual position of the mandibular second molar and narrow tongue space *Oncology Letters*. 2017.12; 14(6); 7339-7343
13. Dulguun Batbold, Masamichi Shinoda, Kuniya Honda, Akihiko Furukawa, Momoko Koizumi, Ryuta Akasaka, Satoshi Yamaguchi, Koichi Iwata. Macrophages in trigeminal ganglion contribute to ectopic mechanical hypersensitivity following inferior alveolar nerve injury in rats. *J Neuroinflammation*. 2017.12; 14(1); 249

[Misc]

1. Disaster Dentistry-Management of oral infectious diseases to prevent aspiration pneumonia 2017.06;

[Conference Activities & Talks]

1. Ogawa T, Handa M, Uezono M, Komazaki Y, Tsuji M, Moriyama K. A survey of orthodontic treatment of rare disease with cleft lip and/or palate. The 41st Annual Meeting of Japanese Cleft Palate Association 2017.05.18 Tokyo
2. Uezono M, Ogawa T, Yamaguchi S, Moriyama K. Orthodontic treatment of a Beckwith-Widemann syndrome patient with glossectomy. The 41st Annual Meeting of Japanese Cleft Palate Association 2017.05.18 Tokyo
3. Kikuchi M, Sato T, Shirosaki Y, Aizawa M, Kadowaki K, Uezono M, Moriyama K, Takakuda K. Hydroxyapatite/collagen bone-like nanocomposite for medical applications (Invited) . 12th Pacific Rim Conference on Ceramic and Glass Technology 2017.05.21 Hawaii, USA
4. Conservative treatment for the bilateral condylar fracture of mandible with anterior open bite. A clinical report of two cases. 2017.07.29
5. Erina Tonouchi, Tomoki Muramatsu, Yasuyuki Gen, Hidekazu. Function-based microRNA library screening identified a novel tumor suppressive. 第76回日本癌学会学術総会 2017.09.29 横浜
6. Takahashi Y, Higashihori N, Funahashi K, Matsumura K, Ito Y, Uezono M, Kadota-Watanabe C, Hikita R, Suzuki S, Moriyama K. Analysis of perioral soft tissue movements during speech in skeletal Class II facial deformity patients. The 76th Annual Meeting of the Japanese Orthodontic Society 2017.10.18 Hokkaido
7. Kadowaki K, Uchikoshi T, Uezono M, Kikuchi M, Moriyama K. Development of novel coating method for hydroxyapatite/collagen nanocomposite to apply orthodontic anchorage devices. The 76th Annual Meeting of the Japanese Orthodontic Society 2017.10.18 Hokkaido
8. Hiratsuka T, Takakuda K, Kikuchi M, Uezono M, Suzuki S, Moriyama K. Osteolytic changes associated with HAp/Col-induced rapid subperiosteal ossification on the base bone. The 76th Annual Meeting of the Japanese Orthodontic Society 2017.10.18 Hokkaido
9. Reiko Hoshi, Akemi Tetsumura, Satoshi Yamaguchi. Relationship between hypesthesia of the inferior alveolar nerve after mandibular cystectomy and preoperative imaging findings on panoramic X-ray films and CT scan. The 62nd Congress of the Japanese Society of Oral and Maxillofacial Surgeon 2017.10.20 Kyoto
10. Erina Tonouchi, Tomoki Muramatsu, Yasuyuki Gen, Hidekazu Hiramoto, Johji Inazawa. Function-based microRNA library screening identified a novel tumor suppressive miRNA regulating BRD4, a BET family gene. 第62回日本人類遺伝学会 2017.11.18 神戸