

► Basic Science

- P-A1 Direct effects of high magnitude cyclic tensile stress on COX-2 and MMPs expressions in chondrocytes derived from mandibular condyle**
Shaoching Su, Kotaro Tanimoto, Yuki Tanne, Yasunori Iwabuchi, Takashi Kamiya, Tomomi Mitsuyoshi, Keisuke Sumi, Kazuo Tanne
(Department of Orthodontics and Craniofacial Developmental Biology, Hiroshima University Graduate School of Biomedical Sciences)
- P-A2 Appearance of active form of matrix metalloproteinases in synovial fluid correlates with degenerative TMJ disease**
Eiro Kubota, Yoshiaki Kawai
(Department of Oral and Maxillofacial Surgery, Kanagawa Dental College, Yokosuka, Japan)
- P-A3 Characterization of osteoclast-like cells derived from temporomandibular joint synovial fluid cells of patients with condylar process fractures of the mandible**
Hiroshi Takano¹, Tetsu Takahashi², Akira Nakata¹, Seiichi Kuwajima¹, Masayuki Fukuda¹
(¹Division of Dentistry and Oral Surgery, Akita University Hospital, Akita, Japan, ²Division of Oral and Maxillofacial Reconstructive Surgery, Department of Oral and Maxillofacial Surgery, Kyushu Dental College, Kitakyushu, Japan)
- P-A4 A new composite injectable scaffold material in the application of tissue-engineered cartilage construction**
Bailin Pan, Jianning Li
(Department of Plastic Surgery, Peking University, Beijing, China)
- P-A5 Immortalization and characterization of mouse Temporomandibular Joint (TMJ) disc cell clones**
Jun Hosomichi^{1,2}, Youngnam Park¹, Sunil Kapila¹
(¹Orthodontics and Pediatric Dentistry, School of Dentistry, The University of Michigan, Ann Arbor, MI, USA, ²Orthodontic Science, Graduate School, Tokyo Medical and Dental University, Tokyo, Japan)
- P-A6 The influence of psychological stress on masticatory muscles**
Yong-Jin Chen, Fei Huang
(Department of General Dentistry and Emergency, School of Stomatology, The Fourth Military Medical University, Xi'an, Shanxi 710032, P. R. China)

- P-A7 Influence of unilateral tooth loss in the temporomandibular joint and masseter muscle of rabbits**

Su-Gwan Kim, Jae-Hyung Im, Ji-Su Oh
(Department of Oral and Maxillofacial Surgery, School of Dentistry,
Chosun University)

- P-A8 Effect of jaw muscle pain on jaw movement and jaw muscle activity in catastrophizers**

Rahena Akhter, Peter Svensson, Janet Benson, Michael Nicholas,
Chris Peck, Greg M. Murray
(Jaw Function and Orofacial Pain Research Unit,
Faculty of Dentistry, The University of Sydney, NSW 2006 Australia)

► **Clinical Study**

- P-A9 Epidemiology and statistical analysis**

Ji Young Lee, Young Kyun Kim
(Department of Maxillofacial Surgery, Section of Dentistry, Seoul National
University Bundang Hospital)

- P-A10 Food intake difficulty in patients with temporomandibular disorders**

Tadasu Haketa^{1,2}, Kouji Kino², Masashi Sugisaki³, Akira Nishiyama²,
Michiko Takaoka², Takenobu Ohta², Kaori Tsukagoshi²,
Toshihisa Shibuya², Fumiaki Sato⁴, Takayuki Ishikawa²
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TMJ and Occlusion, Tokyo Medical & Dental University, Tokyo, Japan,
³Department of Dentistry, School of Medicine, Jikei University, Tokyo,
Japan, ⁴Department of Craniofacial Surgery, Tokyo Medical & Dental
University, Tokyo, Japan)

- P-A11 Influence of lifestyle and habits on the pain intensity in patients with temporomandibular disorders**

Ryota Takaoka, Shoichi Ishigaki, Hirofumi Yatani, Masanori Uchida,
Syuji Fukuda
(Department of Fixed Prothodontics, School of Dentistry, Osaka
University, Osaka, Japan)

P-A12 Factors related to the incidence of anterior disc displacement without reduction and bony changes of the temporomandibular joint in dentofacial deformity with facial asymmetry

Kazuhiro Ooi¹, Nobuo Inoue², Kazuyuki Minowa³, Takashi Kajii⁴,
Yasunori Totsuka¹

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► **Diagnostic Imaging**

P-A13 Effectiveness of bone scans in the diagnosis of osteoarthritis of the temporomandibular joint

Young-Kyun Kim, Ji-Young Lee, Jong-Hwa Kim

(Department of Oral and Maxillofacial Surgery, Section of Dentistry, Seoul National University Bundang Hospital, Seongnam City, Korea)

P-A14 Development of a TMJ CAD System using Structured Reporting

Hirokazu Iwasaki

(Integrated Research Laboratory, Support Center for Advanced Medical Sciences (SAMS), The University of Tokushima, Graduate School, Institute of Health Bio Sciences (HBS), Tokushima, Japan)

P-A15 Diagnostic accuracy on fat-saturated T2-weighted magnetic resonance imaging for diagnosis of intra-articular adhesions of the temporomandibular joint

Shinya Yura

(Department of Oral and Maxillofacial Surgery, Tonami General Hospital, Tonami, Japan)

P-A16 Multiple echo recombined gradient echo MR imaging of the temporomandibular joint

Yuka Uchiyama, Tadashi Sasai, Shumei Murakami, Souhei Furukawa

(Department of Oral and Maxillofacial Radiology, Osaka University Graduate School of Dentistry)

P-A17 The potential of (99m) Tc-MDP single photon emission computed tomography (SPECT) imaging to improve diagnostic accuracy in suspected TMD patients

Kyung-Gyun Hwang, Yung Young Choi

(Department of Oral & Maxillofacial Surgery, College of Medicine, Hanyang University)

► **EMG • Masticatory Muscle**

- P-A18 Oromandibular dystonia involving lateral pterygoid muscles : Three characteristic patterns of clinical features**
Kaiyuan Fu, Ye Cao, Wei Zhang
(Center for TMD & Orofacial Pain, Peking University School & Hospital of Stomatology)
- P-A19 Relation between age and exteroceptive suppression reflex in the masseter muscle**
Osamu Komiyama, Ryoko Nagata, Takashi Iida, Takashi Asano, Misao Kawara
(Department of Oral Function and Rehabilitation, Nihon University School of Dentistry at Matsudo, Chiba, Japan)
- P-A20 Is electromyography useful ? Part 1 : Repeatability of the placement of surface electrodes on the face**
Alex Wirianski¹, Nan Nan Zhao¹, Greg M Murray¹, Chris Peck¹, Ichiro Minami²
(¹Jaw Function & Orofacial Pain Research Unit, Faculty of Dentistry, The University of Sydney, Westmead, Australia, ²Removable Partial Prosthodontics, Tokyo Medical and Dental University, Tokyo, Japan)
- P-A21 Is electromyography useful ? Part 2 : Reliability of surface EMG activity of the muscles of mastication over two separate occasions**
Ichiro Minami¹, Nan Nan Zhao², Greg M Murray², Chris Peck², Alex Wirianski²
(¹Removable Partial Prosthodontics, Tokyo Medical and Dental University, Tokyo, Japan, ²Jaw Function & Orofacial Pain Research Unit, Faculty of Dentistry, The University of Sydney, Westmead, Australia)
- P-A22 Analysis of masseteric activity during nocturnal sleep using wearable data logger type electromyogram measurement system with 3-D accelerometer**
Akihito Gotouda¹, Taihiko Yamaguchi^{1,2}, Kazuki Okada¹, Saki Mikami¹, Shinpei Matsuda¹, Kazuhiko Watanabe², Nobuo Inoue³
(¹Center for Advanced Oral Medicine, Hokkaido University Hospital, ²Department of Gnatho-occlusal Function, Graduate School of Dental Medicine, Hokkaido University, ³Department of Oral Health Science, Graduate School of Dental Medicine, Hokkaido University, Japan)

► Therapy

- P-A23 The study of the effect of acupuncture in temporomandibular disorder patients**
Phothipakdee Pensri
(Department of Oral Diagnosis, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand)
- P-A24 A pilot study to evaluate the immediate effect of physiotherapy in treating temporomandibular disorders patients**
Sae-Lee Daraporn¹, Jorns Teekayu_P.², Boonprakob Yodchai³
(¹Department of Prosthodontics, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand, ²Department of Oral Biology, Faculty of Dentistry, Khon Kaen University, ³Department of Physical Therapy, Faculty of Associated Medical Sciences, Khon Kaen University)
- P-A25 Evaluation of mandibular condylar movement exercise for patients with internal derangement of the temporomandibular joint on initial presentation : A follow-up report**
Hiroaki Yoshida, Takeichi Sakata, Nobuyoshi Oshiro, Shosuke Morita
(First Department of Oral and Maxillofacial Surgery, Osaka Dental University, Japan)
- P-A26 Surgical treatment and reconstruction of TMJ tumors**
Kang Min Ahn, Bu Kyu Lee
(Department of Oral and Maxillofacial Surgery, College of Medicine, University of Ulsan, Asan Medical Center)

► Case Study

- P-A27 A case of tetanus appropriately managed by early diagnosis in oral medicine clinic**
Jun Sato, Chiharu Satoh, Yoshimasa Kitagawa
(Oral Diagnosis and Medicine, Department of Oral Pathobiological Science, Hokkaido University, Graduate School of Dental Medicine)
- P-A28 A case of open bite for idiopathic condylar resorption**
Akiko Kumagai¹, Kazuro Sato², Hideki Hoshi¹, Yoshiki Sugiyama¹
(¹Division of Oral Surgery, Department of Oral and Maxillofacial Surgery, Iwate Medical University, School of Dentistry, Morioka, Japan, ²Division of Orthodontics, Department of Developmental Oral Health Science, Iwate Medical University, School of Dentistry)
- P-A29 Cases report of conservative treatment for chronic closed lock of temporomandibular joint**
Gi-Cheol Lee¹, Kiyoshi Maehara²
(¹Dept. of Oral & Maxillofacial Surgery, Soonchunhyang University Bucheon Hospital, Bucheon, Korea, ²Dept. of Oral & Maxillofacial Surgery, Hamamatsu Medical University)

- P-A30 Patient reducible intermittent locking from a posterior disc displacement : A case report**
 Masayuki Takahashi
 (Department of Oral and Maxillofacial Surgery, National Defense Medical College, Tokorozawa, Japan)
- P-A31 A case report of the New image-guided technique for puncture of superior temporomandibular joint space using scout image of the 3D accutomo FPD-XYZ slice view tomography (3DFPD)**
 Kazuya Honda^{1,2}, Kunihiro Matsumoto^{1,2}, Yukiko Kai^{1,2},
 Shigeo Kameoka^{1,2}, Kunihiro Sawada^{1,2}, Ken-ichiro Ejima^{1,2}
 (¹Department of Oral and Maxillofacial Radiology, Nihon University School of Dentistry, Tokyo, Japan, ²Department of Temporomandibular Disorders, Nihon University Dental Hospital, Tokyo, Japan)
- P-A32 Limitation of mouth opening following anesthesia induction in two patients with masticatory muscle tendon-aponeurosis hyperplasia**
 Yoshinari Morimoto¹, Akiko Matsumoto², Ken Matsumoto²
 (¹Department of Dental Anesthesiology, Graduate School of Dentistry, Osaka University, Suita, Japan, ²Department of Oral and Maxillofacial Surgery 2, Graduate School of Dentistry, Osaka University, Suita, Japan)
- P-A33 Synovial cyst of the temporomandibular joint : Two cases report**
 Jin-Hyuk Hwang, Kang-Mi Pang, Soung-Min Kim, Jong-Ho Lee
 (Department of Oral and Maxillofacial Surgery, School of Dentistry, Seoul National University, Seoul, Korea)
- P-A34 Nasopharyngeal carcinoma presenting as temporomandibular disorders : A case report**
 Kositbowornchai Suwadee¹, Siritapetavee Mookhda¹,
 Sae-Lee Daraporn², Jorns Teekayu_P.³
 (¹Department of Oral Diagnosis, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand, ²Department of Prosthodontics, Faculty of Dentistry, Khon Kaen University, ³Department of Oral Biology, Faculty of Dentistry, Khon Kaen University)
- P-A35 A 2 year retrospective study of alloplastic condyle replacement with metal condyle : A case presentation**
 Suk-Hyun Hwang^{1,2,3}, Kyung-Gi Min^{1,2}, Hoon Chung^{2,3}, Jong-Jin Kwon¹
 (¹Dept. of Oral and Maxillofacial Surgery, College of Medicine, Korea University, Seoul, Korea, ²Korean Association for Temporomandibular Joint Corporation, ³Korean TMJ Research Institute)

- P-A36 Retrospective study on investigating the usefulness of the retromandibular approach for the condyle and subcondyle fracture**
Jeong-Min Ryu, Bae-Kyung Kim, Yeo-Gab Kim, Baek-Soo Lee,
Yong-Dae Kwon, Byung-Joon Choi, Joo-Young Ohe, Joon-Ho Sur
(Department of Oral & Maxillofacial Surgery, Kyung Hee University
Dental School, Seoul, Korea)
- P-A37 Clinical outcome of the surgical treatment of mandibular condylar head fracture**
Jun Young Paeng, Jongrak Hong, Chang-Soo Kim
(The Department of Oral and Maxillofacial Surgery, Samsung Medical
Center, Seoul, Korea)
- P-A38 Treatment of both TMJ ankylosis stemmed from acute muscle spasm by gap arthroplasty using temporalis myofascial flap : A case report**
Jee Ho Lee, Kyu Sik Ro, Kang Min Ahn
(Department of Oral and Maxillofacial Surgery, Seoul Asan Medical
Center, Seoul, Korea)