

# Program

<b>Opening Session</b>	<b>Hall A / Nov 20, 9:30 – 10:30</b>
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<b>Plenary Lecture 1</b>	<b>Hall A / Nov 21, 9:00 – 9:50</b>
Chair: Keiji Tanimoto	

**Digital imaging, 3D-imaging and what then ...?**

Paul F van der Stelt

Academic Centre for Dentistry Amsterdam

<b>Plenary Lecture 2</b>	<b>Hall A / Nov 21, 9:50 – 10:40</b>
Chair: Masami Fujishita (Gifu)	

**Advances in clinical applications of new technologies in oral and maxillofacial radiology**

Robert Langlais

University of Texas San Antonio

<b>Educational Lecture 1</b>	<b>Hall A / Nov 21, 10:40 – 11:20</b>
Chair: Hideyuki Majima	

**Biological basis for action of radiation protection in Oral and Maxillofacial Radiology**

Takehito Sasaki

Tokyo Medical and Dental University

<b>Educational Lecture 2</b>	<b>Hall B / Nov 21, 10:40 – 11:20</b>
Chair: Thomas Li	

**Great patents in medical imaging: research, invention and the patent application process**

Barry Pass

Howard University

<b>Educational Lecture 3</b>	<b>Hall A / Nov 21, 13:00 – 13:40</b>
Chair: Isamu Kashima	

**Cone beam computer tomography for image guided oral and maxillofacial surgery**

Georg Eggers

Heidelberg University

<b>Educational Lecture 4</b>	<b>Hall A / Nov 21, 13:40 – 14:20</b>
Chair: Jae Duk Kim	

### **Imaging diagnosis of salivary gland diseases**

Zuyan Zhang  
Peking University School of Stomatology

<b>Educational Lecture 5</b>	<b>Hall A / Nov 21, 14:20 – 15:00</b>
Chair: Li-Min Lin	

### **Clinical, radiological and pathological implantology**

Takashi Inoue  
Tokyo Dental College

<b>Educational Lecture 6</b>	<b>Hall A / Nov 21, 15:00 – 15:40</b>
Chair: Jyun-ichi Asaumi	

### **Malignant tumors and chronic infections in the masticator space: assessment with in vivo single-voxel 1H magnetic resonance spectroscopy**

Qiang Yu  
Ninth People's Hospital, Shanghai Jiao Tong University

<b>Educational Lecture 7</b>	<b>Hall A / Nov 21, 15:40 – 16:20</b>
Chair: Kwang-Joon Koh	

### **Imaging of tumors and their mimics**

Tore A. Larheim  
University of Oslo

<b>Educational Lecture 8</b>	<b>Hall A / Nov 22, 9:00 – 9:40</b>
Chair: Chang-Seo Park	

### **Radiology in Endodontics**

Takashi Sasano  
Tohoku University Graduate School of Dentistry

**Educational Lecture 9****Hall A / Nov 22, 9:40 – 10:20**

Chair: Kaoru Kobayashi

**Relationship between clinical and magnetic resonance imaging diagnoses and findings in degenerative and inflammatory temporomandibular joint diseases:  
A systematic literature review**

Kwang-Joon Koh

Chonbuk National University

**Educational Lecture 10****Hall A / Nov 22, 10:20 – 11:00**

Chair: Kazunori Yoshiura

**Dental PACS development in Korea**

Eun-Kyung Kim

Dankook University

**Educational Lecture 11****Hall A / Nov 22, 13:20 – 14:00**

Chair: Souhei Furukawa

**IGRT management of head and neck cancer with tomotherapy**

Shi-Long Lian

Chung Ho Memorial Hospital, Kaohsiung Medical University

**Educational Lecture 12****Hall A / Nov 22, 14:00 – 14:40**

Chair: Takashi Sakurai

**VX2-induced rabbit oral and hind limb squamous cell carcinoma (SCC)  
- An imaging and cytohistopathological study**

Li-Min Lin

Kaohsiung Medical University

**Educational Lecture 13****Hall A / Nov 22, 14:40 – 15:20**

Chair: Karune Verochana

**Osteoporosis and radiographs**

Akira Taguchi

Matsumoto Dental University

<b>Educational Lecture 14</b>	<b>Hall A / Nov 22, 15:20 – 16:00</b>
Chair: Zuyan Zhang	

### **Imaging of the TMJ: current concepts**

Paul F van der Stelt  
Academic Centre for Dentistry Amsterdam

<b>Symposium: Oral and Maxillofacial Radiology in Asia</b>	<b>Hall A / Nov 20, 15:00 – 17:30</b>
Chair: Soon-Chul Choi and Eiichiro Aiji	

### **An overview of the status of Oral and Maxillofacial Radiology in South Korea**

Soon-Chul Choi  
Seoul National University

### **Dental education in Thailand**

Karune Verochana  
Chiang Mai University

### **Status of Oral and Maxillofacial Radiology in dental schools and dental imaging facilities in major cities of Bangladesh**

Mahfujul Haq Khan  
BIRDEM and Ibrahim Medical College

### **The developmental trend of oral radiology in China**

Xuchen Ma  
Peking University

### **Status of Oral and Maxillofacial Radiology in India**

Kikkeri S. Nagesh  
R.V.Dental College

### **The development of dentomaxillofacial radiology in Hong Kong for the past 25 years**

Thomas Li  
Prince Philip Dental Hospital, University of Hong Kong

### **Oral and Maxillofacial Radiology in Japan**

Eiichiro Aiji  
Aichi-Gakuin University

<b>Workshop 1: CBCT: Current Concept and the Future</b>	<b>Hall A / Nov 20, 10:30 – 12:40</b>
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Chairs: Allan G Farman and Yoshinori Arai
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**Keynote: Multi-dimensional imaging for dental practice**

Allan G Farman

University of Louisville School of Dentistry

**Efficacy of CBCT in endodontics and dental traumatology**

Mitsuhiro Tsukiboshi

Tsukiboshi Dental Clinic

**Cone beam computed tomography and clinical application for dental implant**

Yong-Suk Choi

Kyung Hee University

**What will be changed by CBCT analysis?**

Koutaro Maki

Showa University

**Intraoperative CBCT – the future of image guided surgery**

Dirk Schulze

Albert-Ludwigs-University Freiburg

<b>Workshop 2: Digital Interoperability, DICOM and IHE</b>	<b>Hall C / Nov 21, 14:00 – 18:00</b>
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Chair: Allan G Farman, Paul F van der Stelt and Yoshihiko Hayakawa
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<b>Clinico-Radiologic Pathological Conference</b>	<b>Hall A / Nov 21, 16:30 – 18:00</b>
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Chair: T Sano, T Inoue
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**Contributor:** S Murakami (Osaka University)

J Asaumi (Okayama University)

T Kurabayashi (Tokyo Medical and Dental University)

Y Morimoto (Kyushu Dental College)

T Kaneda (Nihon University at Matsudo)

**Discussant:** <Team A>

Eiji Nakayama (Health Sciences University of Hokkaido)

Sam-Sun Lee (Seoul National University)

Hiromitsu Kishimoto (Hyogo Medical University)

Tore A Larheim (University of Oslo)

<Team B>

Miho Sasaki (Nagasaki University)

Xin Dong Fan (Shanghai Jiao Tong University)

Kazuhiko Yamamoto (Nara Prefectural Medical University)

Robert Langlais (University of Texas San Antonio)

<b>Hands-on Workshop 1</b>	<b>Hall C2 / Nov 21, 11:00 – 12:00</b>
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### **Understanding dental full PACS and dental HIS**

Kee-Deog Kim and Hyok Park  
Yonsei University College of Dentistry

<b>Hands-on Workshop 2</b>	<b>Hall C2 / Nov 21, 11:00 – 12:00</b>
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### **MR imaging of the temporomandibular joint**

Tore A Larheim, Kazuya Honda and Mika Otonari-Yamamoto  
University of Oslo, Nihon University, Tokyo Dental College

<b>Hands-on Workshop 3</b>	<b>Hall C2 / Nov 22, 11:00 – 12:00</b>
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### **Ultrasonography of the head and neck**

Takafumi Hayashi and Yoshiko Arijii  
Niigata University, Aichi-Gakuin University

<b>Hands-on Workshop 4</b>	<b>Hall C2 / Nov 22, 11:00 – 12:00</b>
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### **CT/MRI of the head and neck**

Tohru Kurabayashi and Jun-ichi Asaumi  
Tokyo Medical and Dental University, Okayama University

<b>Hands-on Workshop 5</b>	<b>Hall C2 / Nov 22, 11:00 – 12:00</b>
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### **Video fluoroscopic swallowing study (VFSS) - the “Gold Standard” investigation-**

Koji Takahashi  
Showa University

<b>Special Interest Group Session: Radiotherapy</b>	<b>Hall A / Nov 21, 11:20 – 12:00</b>
Chair: K Shimizutani and SL Lian	

### **Radiotherapy of head and neck cancer**

Takehiro Inoue  
Osaka University Graduate School of Medicine

Oral presentation:

**1. The application of the teleradiology system in island areas**

K. Ejima, S. Kawashima, K. Sawada, K. Matsumoto, Y. Kai, T. Amemiya and K. Honda  
Nihon University School of Dentistry

**2. Dental teleradiology system : Application of dental-X.net**

M Kato, T Kaneda, M Sakayanagi, M Kato, S Mori, M Yamashiro and Y Oshima  
Nihon University School of Dentistry at Matsudo

**1. Craniofacial and upper airway characteristics in patients with obstructive sleep apnea – a cephalometric study**

Revan Kumar Joshi  
M.R.Ambedkar Dental College and Hospital

**2. Evaluation of oral appliance for treatment of osahs with three-dimensional CT**

S Wang  
Shanghai Ninth People's Hospital, Shanghai Jiao Tong University

**3. Analysis of brain activities of healthy adults during unilateral maximal voluntary clenching by f-MRI**

Yan-ping Zhao  
Peking University

**4. Carotid artery calcification detected on panoramic radiographs in the patients with metabolic syndromes**

S Pornprasertsuk-Damrongsri  
Mahidol University

**5. First in vivo OCT images of human labial glands**

N. Ozawa  
National Center for geriatrics and Gerontology

**6. The somatic X-ray effect of the single dose on the adult mice of the “Quacker-Bush” strain**

Suhardjo Sitam  
University of Padjadjaran

<b>Special Interest Group Session: Nuclear Medicine</b>	<b>Hall B / Nov 22, 10:40 – 12:00</b>
Chair: M Tsuchimochi and M Shozushima	

Educational lectures:

**1. PET/CT – Technology, instrumentation and applications –**

Norio Arai

GE Yokogawa Medical Systems, Ltd.

**2. PET/CT imaging for the head and neck tumor**

Shin Nakamura

Tokyo Medical and Dental University

Lecture:

**Craniofacial oncologic imaging: a changing perspective**

Sunali Khanna

Nair Hospital Dental College

<b>Luncheon Seminar 1</b>	<b>Hall B / Nov 20, 12:50 – 13:20</b>
Chair: Kei-ichi Nishikawa	Supported by GC Corporation

**The advantage of SCARA robotic arm technology in a Maxillofacial imaging, particularly in CBCT application**

Auvo Asikainen

Planmeca Oy, Helsinki, Finland

<b>Luncheon Seminar 2</b>	<b>Hall B / Nov 21, 12:10 – 12:50</b>
Chair: Hirokazu Iwasaki	Supported by CrossField Co, LTD

**Film-less imaging system in Hokkaido University hospital -Present practice about intra-oral images ?**

Shuichi Takinami

Department of Oral Radiology, Hokkaido University

<b>Luncheon Seminar 3</b>	<b>Hall B / Nov 22, 12:20 – 12:50</b>
Chair: Motoyasu Nakamura	Supported by Eisai Co., LTD

**Essentials of CT and MR imaging for oral and maxillofacial lesions**

Naoya Kakimoto

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



# Oral Presentation

November 21 13:00 – 16:20 Hall B

## Session 1: Tooth/Bone

13:00 – 14:10

Chair: BD Lee and T Hayashi

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| <b>O-1</b> | <b>Human radiation dosimetry using electron paramagnetic resonance in tooth enamel biopsy samples</b><br>Barry Pass<br>Howard University   |
| <b>O-2</b> | <b>Diagnostic image of dental ankylosis by limited cone beam CT : Two cases reports</b><br>Chinami Igarashi<br>Tsurumi University  |
| <b>O-3</b> | <b>Possible prognostic radiological criteria concerning the bisphosphonate-related-osteonecrosis of the jaw based on CBCT imaging</b><br>Dirk Schulze<br>Albert-Ludwigs-University Freiburg                              |
| <b>O-4</b> | <b>Conversion of conventional radiographic examination of trabecular bone pattern value into the value of density measurement from intra oral digital radiography</b><br>Menik Priaminiarti<br>University of Indonesia   |
| <b>O-5</b> | <b>The relationship between architectural parameters of bone image and mechanical properties of trabecular bone of pig mandible by finite element analysis</b><br>Kwan-Soo Park<br>Inje University Sanggye-Paik Hospital |
| <b>O-6</b> | <b>Three-dimensional filtering and region growing methods for precise bone segmentation applied to cone beam computed tomography images</b><br>Yoshihiko Hayakawa<br>Kitami Institute of Technology                      |
| <b>O-7</b> | <b>Effect of alendronate on the healing process of the extracted socket of ovariectomized rat using in vivo micro-CT</b><br>Byung Do Lee<br>Wonkwang University  |

## Session 2: TMJ

14:10 – 15:00

Chair: X Ma and Y Morimoto

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| <b>O-8</b> | <b>Analysis of condylar and disc function of the temporomandibular joint using 3T pseudodynamic MRI</b><br>Hirokazu Iwasaki<br>University of Tokushima   |
| <b>O-9</b> | <b>Diagnostic performance of MRI for detection of osseous abnormalities of the temporomandibular joint: correlation with cone-beam CT</b><br>Mustafa Mahmoud Alkhader<br>Tokyo Medical and Dental University |

<b>O-10</b>	<b>Influence of the clenching for the temporo-mandibular joint space with MRI</b> Takami Kouchi Osaka Dental University
<b>O-11</b>	<b>Entities of temporomandibular joint effusion observed on T2-weighted MR images</b> Kenichi Imoto Tokyo Dental College
<b>O-12</b>	<b>Clinical and radiological findings of synovial chondromatosis in temporomandibular joint --18 case reports</b> Juanhong Meng Peking University
<b>Session 3: Anatomy/Variation</b>	
<b>15:00 – 16:00</b>	
Chair: BC Kang and K Kurabayashi	
<b>O-13</b>	<b>The effect of head position on the alveolar bone height of maxilla in panoramic view</b> Sam-Sun Lee Seoul National University
<b>O-14</b>	<b>CT anatomy of the anterior superior alveolar nerve canal: Macro and microscopic study</b> Ray Tanaka Niigata University
<b>O-15</b>	<b>Ultrasonography as a useful tool in diagnosis of orofacial lesions</b> Atul Pralhad Sattur SDM College of Dental Sciences
<b>O-16</b>	<b>Pulse Doppler sonography of the facial artery in the submandibular gland in patients with hyposalivation ---Special reference to the number of drugs taken---</b> Kouji Katsura Niigata University
<b>O-17</b>	<b>Diagnosis for hyperplasia of the tendon and aponeurosis of masticatory muscles with square mandible</b> Tetsuji Kawakami Nara Medical University
<b>O-18</b>	<b>Reliability of 3-D laser scanner imaging for facial soft tissue measurement</b> Takashi Kamio Tokyo Dental College

**Session 4: Tumor (1)**

**9:00 – 9:50**

Chair: Q Yu and K Yuasa

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- O-19**      **A case of a large maxillary carcinoma involving oral cavity in a 10 year-old boy**  
 Mahfujul Haq Khan  
 Bangladesh Institute of Research and Rehabilitation in Diabetes, Endocrine and Metabolic disorders (BIRDEM)
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- O-20**      **Imaging characteristics of mucoepidermoid carcinoma and the correlation with histopathologic grades**  
 Bo-Ram Choi  
 Seoul National University
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- O-21**      **Effect of Ancer<sup>®</sup> 20 Injection and chemotherapy on leukopenia during external beam radiotherapy for head and neck cancer**  
 Junko Tamaki  
 Osaka University
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- O-22**      **How accurately do CT images detect extent of mandibular invasion in patients with squamous cell carcinoma on mandibular gingiva?**  
 Mika Otonari-Yamamoto  
 Tokyo Dental College
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- O-23**      **Characterization of cervical lymph nodes with head and neck malignanceis through ultrasonography**  
 Jaideep Sur  
 Rungta College
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**Session 5: Tumor (2)**

**9:50 – 10:40**

Chair: MH Kahn and E Nakayama

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- O-24**      **Cone-beam CT in the assessment of mandibular invasion of lower gingival carcinoma**  
 Mohammad Abdul Momin  
 Tokyo Medical and Dental University
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- O-25**      **Utility of appropriate windowing for MR images in differentiating benign tumors and cysts**  
 Aya Yamamoto  
 Tokyo Dental College
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- O-26**      **Differential diagnosis of fibro-osseous lesion - An attempt to facilitate classification using bone complexity -**  
 Masao Araki  
 Nihon University
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- O-27**      **Aneurysmal bone cyst of gnathic bones: clinical presentation and imaging finding**  
 Huimin Shi  
 Shanghai Ninth People's Hospital, Shanghai Jiao Tong University
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- O-28**      **Diagnosis and embolization of AVM in the mandible**  
 Xindong Fan  
 Shanghai Ninth People's Hospital, Shanghai Jiao Tong University
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<b>Session 6: Implant</b>		<b>14:00 – 14:40</b>
Chair: HM Choi and T Yosue		

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- O-29**      **The frequency of detecting other latent disorders with implant CT**  
Jun-ichi Koyama  
Niigata University
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- O-30**      **Relationship between the direction of indicating rod of stent and the recommended path of implant fixture insertion considering residual ridge on implant CT**  
Do-hoon Kim  
Seoul National University
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- O-31**      **Guidelines for dental implant imaging produced by a committee on clinical practice guidelines of the Japanese Society for Oral and Maxillofacial Radiology**  
Takafumi Hayashi  
Niigata University
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<b>Session 7: CT/Surgical guide</b>		<b>14:40 – 15:40</b>
Chair: G Eggers and S Murakami		

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- O-32**      **Quantitative analysis of metallic artifacts on CT images: the effect of quantity, type, angle, and position of metal materials**  
Jira Chindasombatjaroen  
Osaka University
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- O-33**      **Intraoperative computer tomography for maxillofacial surgery**  
Georg Eggers  
Heidelberg University
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- O-34**      **Digital volume tomography for image guided foreign body removal**  
Georg Eggers  
Heidelberg University
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- O-35**      **Perspectives in orbital reconstruction**  
Dirk Schulze  
Albert-Ludwigs-University Freiburg
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- O-36**      **Guidelines for proper placement of temporary anchorage devices: CBCT research**  
Seong-Hun Kim  
Catholic University Uijeongbu St Mary's Hospital
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- O-37**      **Evaluation of the implant angular deviation in surgical guide usage using the bone density values from computed tomography**  
Oğuz Ozan  
Near East University
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# Poster Presentation

## Tooth/Bone

<b>P-1</b>	<b>Dental caries in the dens in dente area</b> Hiromasa Kamemoto Asahi University
<b>P-2</b>	<b>Case reports of patients with hypohydrotic ectodermal dysplasia</b> Ishraque Ahmed Mirpur General Hospital
<b>P-3</b>	<b>Hypercementosis at the alveolar crest level</b> Hang-Moon Choi Kangnung National University
<b>P-4</b>	<b>Prevalence of mandibular three-rooted primary second molar in Taiwanese population by bite-wing radiographic study</b> Ming-Gene Tu China Medical University and Hospital
<b>P-5</b>	<b>Cleidocranial dysplasia: A case report and review of radiological findings</b> Muhammad Mubashirul Haque Mirpur General Hospital
<b>P-6</b>	<b>Evaluation of unusual supernumerary teeth using cone-beam volumetric tomography</b> Preeyaporn Srimawong Mahidol University
<b>P-7</b>	<b>Macro- and micro-mechanical analysis of the enamel/ceramic adhesive interface in an incisor veneer using the FE submodeling and the element deactivation approaches</b> Chun-Li Lin Chang Gung University
<b>P-8</b>	<b>A cone-beam CT in assessing proximal caries of primary molar</b> Jin Asari Showa University School of Dentistry
<b>P-9</b>	<b>Stafne bone cavity - Three cases report</b> Shue-Sang Hsue China Medical University and Hospital
<b>P-10</b>	<b>Quantitative assessment of periimplant bone density (HU) on CBCT image</b> Jae-Duk Kim Chosun University
<b>P-11</b>	<b>Density variability in cone-beam and fan-beam CT scanning of the maxillofacial region: An in vitro study</b> Akiko Hirukawa Aichi-Gakuin University
<b>P-12</b>	<b>Evaluations of trabecular bone density at potential dental implant sites using CT images</b> Kuan-Lun Fu China Medical University
<b>P-13</b>	<b>Is application of quantitative CT method helpful for quantitative measurement of bone density with cone-beam dental CT?</b> Keiichi Nishikawa Tokyo Dental College

<b>P-14</b>	<b>Unreliability of linear distance measurement with panoramic radiography</b> Atsushi Suehiro Tokyo Dental College
<b>P-15</b>	<b>Validity of the KANT equation for age estimation from lower third molar radiographs</b> Karune Verochana Chiang Mai University

## TMJ

<b>P-16</b>	<b>A rare case of periosteal fasciitis developed in the temporomandibular region</b> Yasuhisa Shinozaki Jichi Medical University
<b>P-17</b>	<b>A comparison of transcranial with panoramic TMJ radiographs to assess the movement of the mandibular condyle</b> Yo Seob Seo Chosun University
<b>P-18</b>	<b>Comparison of mandibular morphology between patients with temporomandibular joint osteoarthritis and asymptomatic normal subjects</b> Yun Hoa Jung Pusan National University
<b>P-19</b>	<b>Osseous abnormalities of the temporomandibular joint: diagnostic reliability of cone beam computed tomography with multidetector computed tomography</b> Yukiko Kai Nihon University
<b>P-20</b>	<b>CT appearance of temporomandibular joint in patients with habitual luxation</b> Masahiro Izumi Aichi-Gakuin University
<b>P-21</b>	<b>Diagnostic accuracy of micro-computed tomography for osseous abnormalities in the rat temporomandibular joint condyle</b> Shigeo Kameoka Nihon University
<b>P-22</b>	<b>Accuracy rate of clinical diagnosis of disc displacement without reduction using MRI</b> Maryam Goodarzi Mashhad University
<b>P-23</b>	<b>Quantification of temporomandibular joint disk displacement using MR imaging</b> Raweewan Arayasantiparb The Nippon Dental University at Niigata
<b>P-24</b>	<b>Study of relationship between lymphadenopathy and joint effusion in temporomandibular disorders</b> Masashi Sakayanagi Nihon University at Matsudo

<b>P-25</b>	<b>Observations of the incisive canal and the surrounding bone with cone beam computed tomography image</b> Rieko Asaumi Nippon Dental University
<b>P-26</b>	<b>A study to identify the location of mental foramen in a selected Bangladeshi population by panoramic radiograph.</b> Saeed Hossain Khan Bangabondhu Sheikh Mujib Medical University
<b>P-27</b>	<b>Appearance of lingual foramina in the canine/premolar region of the mandible with CBCT images</b> Taisuke Kawai Nippon Dental University
<b>P-28</b>	<b>Bifid mandibular canals: cone-beam CT evaluation</b> Ami Kuribayashi Tokyo Medical and Dental University
<b>P-29</b>	<b>Development and evaluation of 3D mandible shape model for Korean adults with normal occlusion</b> Sung Goo Kim Seoul National University
<b>P-30</b>	<b>Usefulness of CT scan images for planning the bone cut for intra-oral vertical ramus osteotomy</b> Masafumi Oda Kyushu Dental College
<b>P-31</b>	<b>Evaluation of secondary bone grafting for alveolar cleft using CT</b> Toshi Furuuchi Tohoku University
<b>P-32</b>	<b>A genetic mode of regulation for the growth correlation of mandible and craniomaxilla in mice</b> Maya Sakamoto Tohoku University
<b>P-33</b>	<b>A quantitative analysis of sonographic images of the salivary gland: A comparison between the sonographic findings and the sialographic findings</b> Toru Chikui Kyushu University
<b>P-34</b>	<b>Attempt for estimating parameters in the orofacial region by dynamic contrast-enhanced T1-weighted MRI</b> Toru Chikui Kyushu University
<b>P-35</b>	<b>Evaluation of blood flows in the sublingual gland by power Doppler imaging</b> Takashi Ohnishi Health Sciences University of Hokkaido
<b>P-36</b>	<b>Evaluation of normal masseter muscles on ultrasonography</b> Gyu-Tae Kim Kyung Hee University
<b>P-37</b>	<b>Computer-based kinetic analysis of retropharyngeal wall in head and neck cancer patients during swallowing</b> Masakazu Gotoh Aichi-Gakuin University

## Tumor/Oncology/Inflammation

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| <b>P-38</b> | <b>A case of mandibular ossifying fibroma showed an increased FDG uptake in the FDG-PET/CT</b><br>Ikuho Kojima<br>Tohoku University  |
| <b>P-39</b> | <b>Solitary plasmacytoma in the mandible</b><br>Byung-Cheol Kang<br>Chonnam National University  |
| <b>P-40</b> | <b>Mandibular brown tumor in renal osteodystrophy</b><br>Jin-Woo Park<br>Seoul National University   |
| <b>P-41</b> | <b>A case of a primary hyperparathyroidism with multiple brown tumors</b><br>Kyoung-A Kim<br>Chonbuk National University   |
| <b>P-42</b> | <b>A case of malignant lymphoma in the sublingual space</b><br>Satoru Shoji<br>Iwate Medical University  |
| <b>P-43</b> | <b>Rhabdomyosarcoma of the tongue base and its recurrence with multiple lymph node metastases</b><br>Young-Ho Kim<br>Seoul National University   |
| <b>P-44</b> | <b>Sub-classification of Warthin's tumor by Tc-99m-Sialoscintigraphy</b><br>Tsuyoshi Sato<br>Kagoshima University  |
| <b>P-45</b> | <b>Correlation between the incidence of central nodal necrosis in neck node metastasis and the degree of differentiation in oral squamous cell carcinoma</b><br>Shinji Kito<br>Kyushu Dental College |
| <b>P-46</b> | <b>MR imaging characteristics of cervical metastatic lymph nodes</b><br>Fumiko Fukunari<br>Fukuoka Dental College  |
| <b>P-47</b> | <b>Hypervascularity in cervical lymph nodes of oral cancer patients on power Doppler US</b><br>Toyohiro Kagawa<br>Fukuoka Dental College   |
| <b>P-48</b> | <b>Clinical significance of real-time tissue elastography in the evaluation of cervical lymph node metastases in patients with oral cancer</b><br>Shuhzou Taira<br>Niigata University                |
| <b>P-49</b> | <b>Detectability of cervical lymph nodes on CT: comparison of tile and stack mode images on the PACS monitor</b><br>Toshiyuki Kawazu<br>Kyushu University Hospital                                   |
| <b>P-50</b> | <b>Comparison of PET and US imaging findings in metastatic lymph nodes of head and neck cancer</b><br>Noriaki Takahashi<br>Iwate Medical University  |



<b>P-51</b>	<b>Sentinel lymph node biopsy in oral cancer</b> Koichi Takamori University of Miyazaki
<b>P-52</b>	<b>Prospective study on hypoxic image in osteomyelitis of mandible using PET with 18F-fluoromisonidazole</b> Mohammad Towfik Alam Hokkaido University
<b>P-53</b>	<b>Sonographic appearance of lingual abscess -Report of 2 cases-</b> Minoru Fujita Hiroshima University
<b>P-54</b>	<b>Dynamic contrast-enhanced magnetic resonance imaging for estimating tumor proliferation and microvessel density of oral squamous cell carcinoma</b> Teruhisa Unetsubo Okayama University
<b>P-55</b>	<b>Mitochondrial signal lacking manganese superoxide dismutase failed to prevent apoptosis by X-irradiation in a human hepatocellular carcinoma cell line, HLE</b> Hiroko P. Indo Kagoshima University
<b>P-56</b>	<b>Expression of MMP13 in chondroblast cells and rat tibiae after exposure to accelerated carbon ions</b> Samir Banik Hiroshima University

## Implant

<b>P-57</b>	<b>Numerical simulation on the mechanical responses of endodontically treated tooth/implant-supported system under different periodontal supports and load conditions</b> YZ Chang Chang Gung University
<b>P-58</b>	<b>Application of micro-CT and finite element analysis on an immediate-load implant with maxillary sinus augmentation</b> Heng-Li Huang China Medical University
<b>P-59</b>	<b>Development and clinical application of self-curing acrylic resin containing radiopaque filler for dental implant treatment</b> Munetaka Naitoh Aichi-Gakuin University
<b>P-60</b>	<b>Biomechanical interactions in tooth-implant supported fixed partial dentures with variations in the number of splinted teeth and connector type: A finite element analysis</b> CL Lin Chang Gung University
<b>P-61</b>	<b>Comparison of CBCT and conventional CT images for assessment of implant sites</b> Hyok Park Yonsei University

## Dose/Apparatus/Education

<b>P-62</b>	<b>Evaluation of MR Image artifacts caused by orthodontic appliances on the basis of innovative standard test method</b> Atsutoshi Nakatani Osaka University
<b>P-63</b>	<b>Metallic artifacts caused by dental metal prostheses on PET images obtained using two types of PET/CT scanners: A phantom study</b> Hiroaki Shimamoto Osaka University
<b>P-64</b>	<b>Accuracy of intra-oral radiography, multi-detector helical CT and limited cone beam CT for the detection of horizontal tooth root fracture</b> Masahiro Iikubo Tohoku University
<b>P-65</b>	<b>Accuracy of linear measurements obtained by a newly developed cone beam CT</b> Chang-Seo Park Yonsei University
<b>P-66</b>	<b>Validity and correspondence of parallax technique and occlusal cross-sectional technique for localizing impacted teeth</b> Phattaranant May Mahasantipiya Chiang Mai University
<b>P-67</b>	<b>A comparative measurement between films and digital images in endodontics</b> Sangsom Prapayasatok Chiang Mai University
<b>P-68</b>	<b>The value of panoramic radiography for assessing maxillary sinus inflammation</b> Bong Hae Cho Pusan National University
<b>P-69</b>	<b>Image quality evaluation of intraoral digital imaging system, YCR-21XG</b> Kazutoshi Okamura Kyushu University
<b>P-70</b>	<b>Development and assessment of a computer program to teach intraoral radiography</b> Kazutoshi Okamura Kyushu University
<b>P-71</b>	<b>Simulator to allow dental school undergraduate students to undergo pre-practical training in intraoral radiographic technique without using x-rays</b> Tsukasa Sano Tokyo Dental College
<b>P-72</b>	<b>Interactive ICT system for informed consent of oral radiology</b> Takahiro Ichihara Fukuoka Dental College
<b>P-73</b>	<b>Maxillo-facial skin dose in procedure of simulation and verification with CT-Simulation and MV-CT</b> Huey Er Lee Kaohsiung Medical University
<b>P-74</b>	<b>Effective dose of panoramic radiography using optically stimulated luminescence (OSL) dosimeter</b> Atsushi Endo Showa University

<b>P-75</b>	<b>Initial values of local diagnostic reference levels in computed tomography for dental implant planning</b> Rie Sakaino Showa University
<b>P-76</b>	<b>A survey of patient dose in intraoral and panoramic radiography at general dental offices</b> Kenji Sato The Nippon Dental University

## Oral Medicine

<b>P-77</b>	<b>Changes in minor salivary gland secretion following medication of cevimeline in patients with Sjogren's syndrome</b> Shizuko Satoh-Kuriwada Tohoku University
<b>P-78</b>	<b>Study of the diagnostic method for Sjogren syndrome using sialoscintigraphy</b> Michio Toyama The Nippon Dental University at Niigata
<b>P-79</b>	<b>Dynamic MR sialography for patients with Sjögren syndrome</b> Tatsuro Tanaka Kyushu Dental College
<b>P-80</b>	<b>Evaluation on changes of T2 values and ADCs of the Masseter muscle by clenching</b> Tomoko Shiraishi Fukuoka Dental College
<b>P-81</b>	<b>Evaluation of masseter muscle contraction using real-time tissue elastography</b> Toshiyuki Kawazu Kyushu University Hospital
<b>P-82</b>	<b>Nocturnal bruxism and botulinum toxin effect on the subjects with masseteric hypertrophy</b> Seung-Mahn Shon Dankook University
<b>P-83</b>	<b>Massage for the masseter and temporal muscles using the oral rehabilitation robot</b> Yoshiko Arijji Aichi-Gakuin University