

Saturday, July 6 [Room 6]

■ 9 : 00 ~ 10 : 30 KAP AWARD

Chairperson: Seong-Kyun Kim (Seoul National University)

- KAP-1 Comprehensive digital approach for cast-free maxillary prosthetic rehabilitation using flapless-placed pterygoid implants
○Yoshiatsu Tanaka^{1,2}, Hajime Hirata^{1,3}, Yoshihiro Tanaka¹, Morio Ochi²
(¹Horai Chuo Dental Office, ²Health Sciences University of Hokkaido, ³Hirata Dental Office)
- KAP-2 Comparison of BPS analog & digital denture systems for establishment of yonsei digital denture protocol
○Woong-gi Han, Jaeyoung Kim
(Yonsei University College of Dentistry, Department of Prosthodontics)
- KAP-3 Full mouth rehabilitation of severe hypodontia: A tale of two brothers
○Ting Jing Kweh¹, Muaiyed Mahmoud Ali Buzayan², Eshamsul Sulaiman²
(¹Division of Restorative Dentistry, International Medical University, ²Department of Restorative Dentistry, University of Malaya)
- KAP-4 Crestal strain of 2-implant mandibular overdentures (2IMO) when implants placed at different positions and angulations: 3D-printed-simulation study
○Pravinkumar G Patil¹, Liang Lin Seow¹, Rashmi Uddanwadikar², Allan Pau¹, Piyush Ukey³
(¹School of Dentistry, International Medical University Kuala Lumpur, ²Visvesvaraya National Institute of Technology Nagpur, ³NU OSSA Mediquip Pvt Ltd)
- KAP-5 Influence of build orientations on the wear resistance and hardness of denture teeth fabricated by digital light processing (DLP)
○Khin Pyae Sone^{1,2}, Hidekazu Takahashi¹, Maiko Iwaki¹, Sahaprom Namano¹, Yuriko Komagamine¹, Manabu Kanazawa¹, Shunsuke Minakuchi¹
(¹Tokyo Medical and Dental University, ²University of Dental Medicine (Yangon))

■ 10 : 40 ~ 12 : 10 IPROSI AWARD

Chairperson: Bambang Agoestono (Airlangga University)

- IPROSI-1 How to support the nutrition of patients with head and neck cancer?- The first International Dysphagia Diet Awareness workshop-
○Yuka I Sumita¹, Ayako Hagino², Mai Murase³, Mihoko Haraguchi³, Mariko Hattori³, Noriyuki Wakabayashi³
(¹The Nippon Dental University Hospital, ²Tokyo, ³Tokyo Medical and Dental University)
- IPROSI-2 Electrically charged tissue-nonspecific alkaline phosphatase promotes periodontal tissue regeneration for an optimal fixed prosthodontics treatment
○Muhammad Dimas Aditya Ari, Atsuhiko Nagasaki, Hiroshi Egusa
(Molecular and Regenerative Prosthodontics, Graduate School of Dentistry, Tohoku University)
- IPROSI-3 ProNasale' - A Nasal Impression Assembly And Method Of Intra/Extra-Nasal Impressions
○Hina Zafar Raja^{1,2,3}, Muhammad Nasir Saleem^{1,2,3}
(¹CMH LMC and Institute of Dentistry, ²SciArt Dentistry, ³NUMS, Rawalpindi)
- IPROSI-4 Trueness of the obturator of the additive manufacturing complete denture with the obturator at different build angles
○Kazuma Nakazawa¹, Masahiro Ryu¹, Junko Nakajima², Takayuki Ueda¹
(¹Department of Removal Prosthodontics & Gerodontology, Tokyo Dental College, ²Department of Oral Medicine and Hospital Dentistry, Tokyo Dental College)

IPROSI-5 Rehabilitation of extensive mid-facial defects: Silicone facial prosthesis with magnetic attachment
○Winnie Munte, Syafrinani Syafrinani, Ricca Chairunnisa
(Postgraduate Program in Prosthodontics Universitas Sumatera Utara)

■ 16 : 20 ~ 17 : 50 Shiau-ROC TAIWAN AWARD Oral Presentation

Chairperson: Tong-Mei Wang (National Taiwan University)

Shiau-ROC TAIWAN-O-1

Relationship between oral health and cognitive function in older adults: a longitudinal study

○Min Thu Ya¹, Yoko Hasegawa^{1,2)}, Ma. Therese Sta. Maria^{1,3)}, Kana Tokumoto²⁾, Kazuhiro Hori¹⁾

(¹)Division of Comprehensive Prosthodontics, Faculty of Dentistry & Graduate School of Medical and Dental Sciences, Niigata University, ²⁾Department of Oral and Maxillofacial Surgery, School of Medicine, Hyogo Medical University, ³⁾Department of Prosthodontics, College of Dentistry, Manila Central University)

Shiau-ROC TAIWAN-O-2

Effect of mechanical loading on peri-implant bone quality in ovariectomized rat maxillae under Bisphosphonate Therapy

○Juo Pei Lee¹⁾, Shinichiro Kuroshima²⁾, Yusuke Uto²⁾, Yusuke Uchida²⁾, Tomohiro Ishizaki¹⁾, Takashi Sawase²⁾

(¹)Department of Applied Prosthodontics, Graduate School of Biomedical Sciences, Nagasaki University, ²⁾Department of Applied Prosthodontics, Institute of Biomedical Sciences, Nagasaki University)

Shiau-ROC TAIWAN-O-3

Near-infrared light-enhanced antimicrobial effect of minocycline/hyaluronan/carbon nanohorn conjugate

○Daisuke Konishi, Eri Hirata, Yukari Maeda, Atsuro Yokoyama

(Department of Oral Functional Prosthodontics, Graduate School of Dental Medicine, Hokkaido University)

Shiau-ROC TAIWAN-O-4

Inverse genetics to trace the differentiation pathway of human chondrocytes and re-discover a regulator of chondrogenesis by single cell RNA-seq

○Hang Thuy Do^{1,2)}, Mitsuaki Ono^{1,3)}, Wakana Kitagawa^{1,2)}, Anh Tuan Dang^{1,2)}, Toshitaka Oohashi¹⁾, Takuo Kuboki^{2,3)}, satoshi kubota⁴⁾

(¹)Department of Molecular Biology and Biochemistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ²⁾Department of Oral Rehabilitation and Regenerative Medicine, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ³⁾Department of Oral Rehabilitation and Implantology, Okayama University Hospital, ⁴⁾Department of Biochemistry and Molecular Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences)

Shiau-ROC TAIWAN-O-5

Enhancing mechanical properties of photopolymer denture base resins by the incorporation of cellulose nanofibers (CNF)

○Xiangyu Ren¹⁾, Tamaki Hada²⁾, Keyu Qi¹⁾, Maiko Iwaki²⁾, Motohiro Uo³⁾, Shunsuke Minakuchi¹⁾, Manabu Kanazawa²⁾

(¹)Gerodontology and Oral Rehabilitation, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, ²⁾Digital Dentistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, ³⁾Advanced biomaterials, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

Sunday, July 7 [Room 6]

■ 9 : 00 ~ 10 : 30 HIMAWAN AWARD

Chairperson: Laura Susanti Halim (University of Indonesia)

HIMAWAN-1

Effect of mandibular advancement device therapy on nocturnal blood pressure surges in patients with obstructive sleep apnea -A crossover trial-

○Kentaro Okuno^{1,2}, Liqin Wang¹, Keishi Wada¹, Ayako Masago¹, Kazuya Takahashi¹

(¹Department of Geriatric Dentistry, Osaka Dental University, ²Center for Dental Sleep Medicine, Osaka Dental University Hospital)

HIMAWAN-2

Restoring anterior guidance through digital check bite method in anterior partial: case report

○Sung Hee Lee

(Department of Dentistry, Graduate School, Kyung Hee University)

HIMAWAN-3

PCA-based kinematic classification of mandibular movements from TMD patients

○Ryuji Shigemitsu¹, Toru Ogawa², John Rasmussen³

(¹Tohoku University Hospital, ²Tohoku University, ³Aalborg University)

HIMAWAN-4

The potent effect of IL-10 induced β -endorphin on alleviating trigeminal neuropathic pain

○Lutfi Putra Perdana, Masamitsu Oshima, Daisuke Ikutame, Yoshizo Matsuka

(Department of Stomatognathic Function and Occlusal Reconstruction, Graduate School of Biomedical Sciences, Tokushima University)

HIMAWAN-5

Alterations in vertical dimensions can lead to temporomandibular joint disorder (TMD): A case report

○Ratri Maya Sitalaksmi, Primanda Nur Rahmania, Muhammad Dimas Aditya Ari, Harry Laksono, Valerian Laksono

(Universitas Airlangga)

■ 10 : 40 ~ 12 : 10 PPS AWARD Oral Presentation

Chairperson: Joann F Joven (Centro Escolar University)

PPS-O-1

Assessment of cytotoxicity of oil palm based micro crystalline cellulose reinforced acrylic denture base resin

○Jacob John, Amira Ali Abdel Rahaman

(Dept of Restorative Dentistry, Faculty of Dentistry, Universiti Malaya)

PPS-O-2

Histological observation on periodontal tissue after vertical root fracture repair with 4-META/MMA-TBB resin

○Chuta Kooanantkul, Masako Nagasawa, Tongtong Zhang, Katsumi Uoshima

(Niigata University Graduate School of Medical and Dental Sciences)

PPS-O-3

Evaluating the connectors parameters for the fracture strength of all-ceramic resin bonded bridges

○Siti Mariam Ab Ghani¹, Mas Linda Osman¹, Tong Wah Lim², Hung-Chih Chang³, Amir Radzi Ab Ghani⁴

(¹Faculty of Dentistry, Universiti Teknologi MARA, ²Faculty of Dentistry, The University of Hong Kong, ³Department of Biomedical Engineering, Hungkuang University, ⁴College of Engineering, Universiti Teknologi MARA)

- PPS-O-4 Effect of different surface treatments on the bond strength between light-cure hard chairside relining material and CAD/CAM milled denture base material
○An Thi Khanh Nguyen¹, Tamaki Hada², Maiko Iwaki², Shunsuke Minakuchi¹, Manabu Kanazawa²
(¹Gerodontology and Oral Rehabilitation Department, Tokyo Medical and Dental University, ²Department of Digital Dentistry, Tokyo Medical and Dental University)
- PPS-O-5 Titanium surface functionalization with vinylphosphonic acid - glutathione coating for suppression of ROS-induced cell damage and improvement of osteogenesis
○Huichuan Xu, Kosuke Nozaki, Takeshi Ueno, Hao Wu, Noriyuki Wakabayashi
(Tokyo Medical and Dental University)

Saturday, July 6 • Sunday, July 7 [Poster Session 2]

■ Poster Discussion Sunday, July 7 12 : 00 ~ 13 : 00

■ Shiao-ROC TAIWAN AWARD Poster Presentation

Shiao-ROC TAIWAN-P-1

Evaluation of pressure generated by different tray design using digital occlusion analyzer device:
An in vitro study

○Minji Sun, Seojune Choi, Hong Seok Moon, Jaeyoung Kim

(Department of Prosthodontics, Yonsei University College of Dentistry)

Shiao-ROC TAIWAN-P-2

Complete denture sound intelligibility subjective instrument development

○Ika Andryas¹⁾, Ira Tanti^{2,3)}, Tengku Syarfina³⁾, Guang Hong⁴⁾, Lindawati Kusdhany²⁾

(¹⁾Faculty of Dentistry, Universitas of Indonesia, ²⁾Prosthodontic Department, Faculty of Dentistry, University of Indonesia, ³⁾Faculty of Cultural Science, Universitas Sumatera Utara, ⁴⁾Liaison Center for Innovative Dentistry, Graduate School of Dentistry, Tohoku University)

Shiao-ROC TAIWAN-P-3

Basic properties of machinable fully-sintered dental zirconia

○Risa Iwase, Masanao Inokoshi, Okkar Kyaw, Bohua Wang, Shunsuke Minakuchi

(Department of Gerodontology and Oral Rehabilitation, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

Shiao-ROC TAIWAN-P-4

Nobel bone density evaluation based on drilling torque value using a newly designed drill

○Kaiken Wakamatsu, Kazuya Doi, Reiko Kobatake, Yoshihumi Oki, Hiroshi Oue, Takayasu Kubo, Kazuhiro Tsuga

(Hiroshima University)

Shiao-ROC TAIWAN-P-5

Masticatory performance and related brain features of patients with temporomandibular disorders before and after treatment

○Ta-chung Chen¹⁾, Chia-shu Lin²⁾

(¹⁾Department of Stomatology, Taipei Veterans General Hospital, ²⁾Department of Dentistry, National Yang Ming Chiao Tung University)

■ PPS AWARD Poster Presentation

PPS-P-1

Effect of dual-cure adhesives on luting agents for glass-fiber posts: A network meta-analysis

○Wisut Angnanon¹⁾, Putsadeeporn Thammajaruk¹⁾, Massimiliano Guazzato²⁾

(¹⁾Department of Prosthetic Dentistry, Faculty of Dentistry, Prince of Songkla University,

²⁾Discipline of Prosthodontics, School of Dentistry, Faculty of Medicine and Health, The University of Sydney)

- PPS-P-2 Effects of ultraviolet weathering aging on the color stability and biocompatibility of various computer-aided design and computer-aided manufacturing glass-ceramic materials
Effects of aging on the color stability and biocompatibility of various CAD/CAM glass-ceramics
○Yu-Sung Choi^{1,2)}, Su-Hyun Choi^{1,2)}, Hyo-Jung Kim^{1,2)}, Eun-Bi Park^{1,2)}, Ju-Hyun Kim^{1,2)}, Young-Eun Cho^{1,2)}, Jong-Hyuk Lee^{1,2)}
(¹⁾Department of Prosthodontics, School of Dentistry, Dankook University, ²⁾The Korean Academy of Prosthodontics)
- PPS-P-3 Comparison of flexural strength in two 3D printed denture base resins with different thicknesses: An in vitro study
○Aeman Elkezza, Muaiyed Buzayan, Qi Qi Chong, Zhi Yun Loo, Mohideen Farook, Jacob John A/L Chiremel Chandy, Jimi Lie Yoon Zhen
(Faculty of Dentistry, University of Malaya)
- PPS-P-4 Evaluating the efficacy of robotic assistance in dental implant surgery: a comparative study in a mongrel dog model
○Ji-Man Park¹⁾, Deok-Yeong Kim¹⁾, Ui-Won Jung²⁾, Nam-Kug Kim³⁾, Myung-Soo Bae³⁾, Jun-Hyeok Ock³⁾
(¹⁾Department of Prosthodontics & Dental Research Institute, Seoul National University School of Dentistry, ²⁾Department of Periodontology, Research Institute for Periodontal Regeneration, Yonsei University College of Dentistry, ³⁾Department of Convergence Medicine, Asan Medical Institute of Convergence Science and Technology, Asan Medical Center, University of Ulsan College of Medicine)
- PPS-P-5 Evaluation of extra-high translucent zirconia: translucency, crystalline phase, mechanical properties
○Hiroto Nakai, Masanao Inokoshi, Haruko Katada, Risa Iwase, Okkar Kyaw, Shunsuke Minakuchi
(Department of Gerodontology and Oral Rehabilitation, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)