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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
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<tr>
<td>8:30 ~ 10:30</td>
<td>Symposia 3: Endodontic Retreatment - Endodontic Disinfection</td>
<td>Nobuyuki Tani-Ishii (Kanagawa Dental University, Japan)</td>
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<td>Clifford J. Ruddle (Santa-Barbara, USA)</td>
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<td>Sergio Kuttler (Nova Southeastern University, USA)</td>
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<td>10:50 ~ 12:00</td>
<td>Keynote Lecture 3</td>
<td>Sung Kyo Kim (IFEA Secretary)</td>
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<td>Shimon Friedman (University of Toronto, Canada)</td>
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<td>12:15 ~ 13:00</td>
<td>Lunch Lecture 2: 3-D Root Canal Treatment using Fourth Generation NiTi Rotary Files</td>
<td>Toshihiro Ushikubo (U’z Dental Clinic)</td>
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<td>Co-Sponsored by Yoshida Dental Trade Distr. Co., Ltd/ SybronEndo</td>
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<td>13:10 ~ 14:20</td>
<td>Keynote Lecture 4</td>
<td>Mark F. Wotzke (IFEA Treasurer)</td>
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<td>Seung-Jong Lee (Yonsei University, Korea)</td>
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<td>14:30 ~ 16:45</td>
<td>Country Representative Speakers 4</td>
<td>Iris Slutzky-Goldberg (Hebrew University, Israel)</td>
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<td>Gabriela Martin (Argentinian Endodontic Society, Argentina)</td>
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<tr>
<td>17:00 ~ 19:00</td>
<td>Symposia 4: Micro-endodontics and Vertical Root Fractures</td>
<td>Takashi Matsuo (University of Tokushima)</td>
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<td>Zvi Metzger (Tel Aviv University, Israel)</td>
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**Saturday, May 25**
Room 2 5F Hall B5 (1)

8:30 〜 10:30 Symposia 5: Current Clinical Endodontics - The Treatment Guidelines for Small and Large Lesions -
Chairperson: Keiso Takahashi (Oju University)
SY.8 The Treatment Guidelines for Small and Large Lesions
Catherine Ricci (University of Nice Sophia Antipolis, France)
SY.9 Diagnosis and Management of Pulpal Disease
Eric W.L. Kwan (University of Alberta, Canada)

12:15 〜 13:00 Lunch Lecture 3: Can Adhesive Approaches Increase Success in Endodontic Clinic?
Sema Belli (Selçuk University, Turkey)
Co-Sponsored by SUN MEDICAL CO., LTD

14:30 〜 16:45 Country Representative Speakers 5
Chairperson: De Moor Roeland (Belgian Association for Endodontics and Traumatology / Ghent University, Belgium)
José Pumarola-Suñé (Spanish Society of Endodontics, Spain)
CR.16 Effective Irrigation of the Root Canal System: Sonic and Ultrasonic Activation versus Laser Activated Irrigation or Photon Induced Acoustic Streaming
De Moor Roeland (Belgian Association for Endodontics and Traumatology / Ghent University, Belgium)
CR.17 Reaction between Clinically Used Irrigation Solutions and the Effect on Root Canal Treatment
Mohannad Nassar (Jordanian Endodontic Society, Jordan)
CR.18 Contemporary Irrigation Efficiency
José Pumarola-Suñé (Spanish Society of Endodontics, Spain)

17:00 〜 19:00 Symposia 6: Dental Pulp Regeneration: from Bench-top to Clinic
Chairperson: Hayato Oshima (Niigata University, Japan)
SY.10 Recipient-Donor Interaction Affects Dental Pulp Regeneration after Exogenous Stimuli
Hayato Oshima (Niigata University, Japan)
SY.11 Origin and Differentiation of Mesenchymal Cells; Dental Pulp Cells
Han-Sung Jung (Yonsei University, Korea)
SY.12 Induced Dental Pulp Stem Cells from Dental Pulp Cells
Satoshi Fukumoto (Tohoku University, Japan)

Room 3 5F Hall B5 (2)

8:30 〜 10:30 Free Lectures 4: Diagnosis & Irrigation 1
Chairperson: Mikako Hayashi (Osaka University, Japan)
FL.11 Treatment of Teeth with Obliterated Root Canals - from Pain to Pleasure
Peter Kiefner (Private Practice, Germany)
FL.12 Withdrawn
FL.13 What should We Consider before Initiating the Root Canal Treatment?
From Diagnostic and Therapeutic Point of View
Hiroshi Miyashita (EPSDC, Japan)
FL.14 The Power of Bubbles and the Unveiled Mechanisms of Ultrasonic Activated Irrigation
Ricardo Gomes de Macedo (ACTA - Academic Center for Dentistry Amsterdam, The Netherlands)
14:30 〜 16:45 Country Representative Speakers 6
Chairpersons Nicholas Paul Chandler (University of Otago, New Zealand)
Walid Nehme (St Joseph University, Lebanon)

CR.19 Endodontic Surgery: Some Mysteries of Resections, Root-end Fillings and Cavities
Nicholas Paul Chandler (University of Otago, New Zealand)

CR.20 Microsurgical Endodontics: Pros and Cons
Ivan N. Vyuchnov II (Endodontology Society of the Russian Dental Association, Russia)

CR.21 The Reciprocating Motion: a New Era in Endodontic Instrumentation?
Walid Nehme (St Joseph University, Lebanon)

17:00 〜 19:00 Free Lectures 5: Shaping
Chairperson Masaru Igarashi (Nippon Dental University, Japan)

FL.15 Damage to Root Canal Dentine after Endodontic Procedures
Hagay Shemesh (ACTA - Academic Center for Dentistry Amsterdam, The Netherlands)

FL.16 Access Preparation “What We Didn’t Know Before”
Adham Abdel Azim (University of Tennessee, USA)

FL.17 Martensitic Rotary Files: a New Tool to Manage Curved Canals
Diego Barreto Andrade (Columbia University, USA)

FL.18 The Reciprocating Motion: a New Era in Endodontic Instrumentation?
Walid Nehme (St Joseph University, Lebanon)

Room 4 5F G510

8:30 〜 9:15 Oral Research Presentations 3
Chairperson Yoshihiko Hayashi (Nagasaki University, Japan)

OP.9 The Effectiveness of Adjunctive Hypnotherapy on Anesthesia Achievement in Teeth with Irreversible Pulpitis-Randomized Clinical Trial
Mohsen Ramazani (Mazandaran University of Medical Sciences, Iran)

OP.10 Importance of Differential Diagnosis in Keratocystic Odontogenic Tumor
Nobuyuki Kawashima (Tokyo Medical and Dental University, Japan)

OP.11 Considering Orthodontic versus Endodontic Treatment in Upper Second Molar Invasion by Upper Third Molar
Akiko Nasu (Nasu Dental Clinic, Japan)

9:15 〜 10:30 Oral Research Presentations 4
Chairperson Kiyoshi Matsushima (Nihon University, Japan)

OP.12 Finding the Position of a Lateral Canal Based on the Value of Two Electric Current Readings in Vitro
Shigeru Shoji (Tohoku University, Japan)

OP.13 Root Form and Canal Morphology of Maxillary Second Premolars in a Northern Chinese Population: a Retrospective Study
Hantang Sun (Fourth Military Medical University, China)

OP.14 In Vitro Evaluation of Antimicrobial Activity of Chlorhexidine and Sodium Hypochlorite Irrigant Solutions
Hasanain Hadi Al-khafaji (University of Sharjah, UAE)

OP.15 Comparison of the Effect of Benzodiazepine and Hypnotherapy on Stress Management When Performing Root Canal Therapy-In Vivo (Before-After)
Mohsen Ramazani (Mazandaran University of Medical Sciences, Iran)
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<tr>
<th>OP.16</th>
<th>Physiotherapeutic Methods in Complex Treatment of Compression Toxic Neuropathy of Inferior Alveolar Nerve</th>
<th>Oleksandra Dmytrivna Golovchanska (National O. Bogomoletz Medical University, Ukraine)</th>
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<td>14:30</td>
<td>Oral Research Presentations 5</td>
<td>Chairperson Tamotsu Tsurumachi (Nihon University, Japan)</td>
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<td>OP.17</td>
<td>Seminar on the Communication Training Implementation for Faculties in Dental Educational Institutions and a Class in Medical Interview Training on Endodontics for Dental Students</td>
<td>Kazuyoshi Suzuki (Aichi Gakuin University, Japan)</td>
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<td>OP.18</td>
<td>Relationship between the Increase of Interleukin-1β (IL-1β) Producing Cells and Alveolar Bone Destruction in LPS-induced Periapical Inflammation</td>
<td>Dian Agustin Wahjuningrum (Airlangga University, Indonesia)</td>
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<td>OP.19</td>
<td>Evaluation and Comparison of Polyamide Polymer and Gutta Percha System in Filling Simulated Lateral Canals and Their Homogeneity of Obturation using CBCT an In Vitro Study</td>
<td>Arora Shashank (YMT Dental College, Maharashtra University of Dental Sciences, India)</td>
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<td>OP.20</td>
<td>Withdrawn</td>
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<td>15:30</td>
<td>Oral Research Presentations 6</td>
<td>Chairperson Yoshito Yoshimine (Kyushu University, Japan)</td>
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<tr>
<td>OP.21</td>
<td>Indications of Root Canal Treatment in Patients Examined at RAKCods Dental Hospital</td>
<td>Ebadullah Raidullah Shafi (RAK College of Dental Sciences, UAE)</td>
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<tr>
<td>OP.22</td>
<td>The Influence of Three Different Obturation Techniques towards Percentage Gutta-Percha Filled Area at The Apical</td>
<td>Grace Virginia Gumuruh (Universitas Padjajaran, Indonesia)</td>
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<td>OP.23</td>
<td>In-vitro Analysis of Gutta-percha Removal using Hand Files with Three Solvents</td>
<td>Peraya Surapipongpuntr (Naresuan University, Thailand)</td>
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<td>OP.24</td>
<td>Managing a Cracked Tooth: Considering Fracture Retreatment or Extraction</td>
<td>Tsunehiko Nasu (Nasu Dental Clinic, Japan)</td>
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<td>OP.25</td>
<td>Effects of Simulated Chewing and Access Cavity Design on Strength of Teeth</td>
<td>Rada Haddadin (University of Western Australia, Australia)</td>
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<td>17:00</td>
<td>Free Lectures 6: Obturation</td>
<td>Chairperson Shogo Takashiba (Okayama University, Japan)</td>
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<tr>
<td>FL.19</td>
<td>Successful Endodontics without Obturation? The Hollow-Tube Theory Re-visited</td>
<td>Naseem-Shah (All India Institute of Medical Sciences, India)</td>
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<td>FL.20</td>
<td>Are We Getting Gutta-percha to Move?</td>
<td>Benjamin Briseno (Johannes Gutenberg University, Germany)</td>
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<td>FL.21</td>
<td>Has a New Root Canal Sealer Improved the Seal of the Root Canal System?</td>
<td>Toshihiro Ushikubo (U’z Dental Clinic, Japan)</td>
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<td>FL.22</td>
<td>The Advantages of the Ultrafil System in Achieving Longevity of Endodontic Treatment Results</td>
<td>Koichi Yoshikawa (Yoshikawa Dental Clinic, Japan)</td>
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<td>12:00 ~ 13:00</td>
<td>Research Posters 1</td>
<td>Hidetoshi Shimauchi</td>
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<td>12:00 ~ 13:00</td>
<td>Research Posters 2</td>
<td>Masataka Yamaguchi</td>
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<td>Research Posters 3</td>
<td>Yuichiro Noiri</td>
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12:00 〜 13:00 Research Posters 4
Chairperson Hidefumi Maeda (Kyushu University, Japan)

P.16 Time Course Micro-CT Analysis of Periapical Lesions using an Extraradicular Biofilm Model in Rat
Katsutaka Kuremoto (Osaka University, Japan)

P.17 Inflammatory Potential of Primarily Infected Root Canals Content against Macrophages by the Il- β and Tnf- α Production
Brenda PFA Gomes (State University of Campinas, Brazil)

P.18 The Antibacterial Effects of Calcium Hydroxide and the Ethanol Extract of Propolis against Enterococcus faecalis
Novandyta Hapsari Indra (University of Indonesia, Indonesia)

P.19 Effects of Nano-bubbles on Enterococcus faecalis - Transmission Electron Microscopy Investigation-
Kouichi Henmi (Tokyo Medical and Dental University, Japan)

P.20 In Vitro Pharmacognostic Potential of Aqueous Barberry Extracts on Enterococcus faecalis Biofilm Formation and esp Gene Expression
Maryam Haghighi (University of the East, Philippines)

12:00 〜 13:00 Research Posters 5
Chairperson Norihiro Sawada (Sawada Dental Office, Japan)

P.21 Comparison of Prophylactic Effect of Zintoma and Ibuprofen on Post-endodontic Pain. Double Blind Randomised Clinical Trial
Mohsen Ramazani (Mazandaran University of Medical Sciences, Iran)

P.22 The Effect of Visual Function under the Operating Dental Microscopes
Akira Mitsuhashi (Kanagawa Dental College, Japan)

P.23 Transient Receptor Potential Ankyrin 1 (TRPA1) is Involved in the Bradykinin-induced Vasodilatation in the Feline Dental Pulp
Moom Hwan Lee (Kyungpook National University, Korea)

P.24 The Effect of Glass Ionomer Cement on the Pulp Healing Tested using Alkaline Phosphatase Expression
Endang Suprastiwi (University of Indonesia, Indonesia)

P.25 Tensile and Tear Properties of Styrenic Thermoplastic Elastomer Rubber Dam Sheet
Kallaya Yanpiset (Mahidol University, Thailand)

12:00 〜 13:00 Research Posters 6
Chairperson Osamu Takeichi (Nihon University, Japan)

P.26 Correlation between Cyclic Fatigue and Bending Property of Profile Endodontic Instruments
Jindan Piao (Tokyo Medical and Dental University, Japan)

P.27 Gene Expression Analysis of Tryptase, Tumor Necrotic Factor-Alpha (Tnf-Alpha), and Interleukin-4 (Il-4) as Mast Cell Activation Marker in Pulpitis and Necrotic Pulp
Dini Asrianti Bagio (University of Indonesia, Indonesia)

P.28 Inhibitory Effect of Ameloblastin on Epithelial Cells
Noriko Saitou (Kyushu Dental College, Japan)

P.29 BMP-1 Promotes CTGF/CCN2 Expression Independently of Protease Activity in Human Carious Teeth
Koichiro Muromachi (Nihon University, Japan)
P.30  The Validity of Small Volume Cone-beam Computed Tomography in the Diagnosis and Management of a Case of Vertical Root Fracture
Kazuhiko Nakata (Aichi Gakuin University, Japan)

12:00〜13:00  Research Posters 7
Chairperson  Arata Ebihara (Tokyo Medical and Dental University, Japan)

P.31  Root Canal Morphology of Mandibular Incisor using Micro-focus X-ray CT Device
Taro Nishida (Nippon Dental University, Japan)

P.32  Usefulness of Cone-beam Computed Tomography for Detecting Periapical Radiolucency
Shintaro Uraba (Tokyo Medical and Dental University, Japan)

P.33  Effectiveness of CT and MTA for Endodontic Surgery: a Case Report
Yu Furuya (Osaka University, Japan)

P.34  Detection of the Second Mesiobuccal Canal of Maxillary Molars by Swept-source Optical Coherence Tomography
Yoshiko Iino (Tokyo Medical and Dental University, Japan)

P.35  Observation of the Pulp Chamber using SS-OCT
Toshihiko Yoshioka (Tokyo Medical and Dental University, Japan)

12:00〜13:00  Research Posters 8
Chairperson  Yoshito Yoshimine (Kyushu University, Japan)

P.36  Morphological Evaluation of Periapical Radiolucency in Three Dimensions using Cone-beam CT
Kei Komatsu (Tokyo Medical and Dental University, Japan)

P.37  Effect of Motion Artifact on the Quality of Cone-Beam CT Images
Atsushi Takeda (Tokyo Medical and Dental University, Japan)

P.38  Cemental Tear Confirmed by Exploratory Endodontic Surgery
Chizuko Kokuzawa (Tokyo Medical and Dental University, Japan)

P.39  Mandibular Incisors with a Large Periapical Lesion Diagnosed and Followed up by CBCT
Takamori Yamauchi (Tokyo Medical and Dental University, Japan)

P.40  Reverse Engineering Iontophoresis
Keisuke Kanehira (Kanehira Dental Office, Japan)

12:00〜13:00  Research Posters 9
Chairperson  Noriko Mutoh (Kanagawa Dental University, Japan)

P.41  The Analgesic Effect of Nonsteroidal Anti-inflammatory Drugs (NSAIDs) to Odontogenic Pain -Establishment of Quantitative Criterion-
Reiko Wadachi (Tokyo Medical and Dental University, Japan)

P.42  A Combined Medical and Dental Treatment Approach in a Case of Intractable Disease
Satoshi Sugimoto (Sugimoto Dental, Japan)

P.43  Preoperative and In-treatment Factors for the Prognosis of Intentional Replantation
Sin-Yeon Cho (Yonsei University Dental Hospital, Korea)

P.44  Cell Dynamics in the Process of Pulpal Healing following Tooth Transplantation
Noriko Mutoh (Kanagawa Dental University, Japan)

P.45  Effect of Zinc Stearate on Dentin Hypersensitivity
Akiyuki Morito (Tsurumi University School of Dental Medicine, Japan)
12:00 〜 13:00 Research Posters 10
Chairperson Nobuyuki Kawashima（Tokyo Medical and Dental University, Japan）

P.46 Shear Bond Strength of Glass Ionomer Cements and Resin Modified Glass Ionomer Cements on Artificially Affected Dentin
Devy Noviana Djakaria（FKG UI, Indonesia）

P.47 Root-end Restoration using MTA against the Intractable Cases of Root Canal Treatment
Kayoko Kitajima（Nippon Dental University, Japan）

P.48 Calcium Ions Released from Mineral Trioxide Aggregate Convert the Differentiation Pathway of C2C12 Cells into Osteoblast Lineage via the L-type Voltage-dependent Calcium Channel
Makoto Hayashi（Nihon University, Japan）

P.49 Immunohistochemical Analysis of CD163-expressing Macrophages in Mineral Trioxide Aggregate-applied Rat Subcutaneous Tissue
Takafumi Ito（Niigata University, Japan）

P.50 Regeneration of Dental Pulp Tissue in Immature Dog Teeth with Apical Periodontitis using Platelet Rich Plasma and Dental Pulp Stem Cells
Xiaofei Zhu（Peking University, China）

P.51 Development of Fine Apatite/Collagen Composite for Apical Barrier Material
Satoshi Kawano（Asahi University, Japan）

12:00 〜 13:00 Research Posters 11
Chairperson Noriyuki Suzuki（Tokyo Medical and Dental University, Japan）

P.52 Canal Length Change between Pre-instrumentation and Post-instrumentation
Jaeman Lim（Yonsei University, Korea）

P.53 Comparative Evaluation of New and Old ProTaper F3 Instruments using Physico-mathematical Analysis
Evgeny Rzhanov（Moscow State University of Medicine and Dentistry, Russia）

P.54 Phase Transformation Behavior and Bending Properties of Newly Designed Shape-memorized Nickel-Titanium Rotary Endodontic Instruments
Yoshio Yahata（Showa University, Japan）

P.55 Cyclic Fatigue Measurement of Different NiTi Rotary Files on Three Different Artificial Canals
Hiroaki Watanabe（Tokyo Dental College, Japan）

P.56 ProTaper FHU Versus Stainless Steel Hand Instruments in Overall Treatment Quality - Students' Perspective
Rong Hua, Christine Chen（National University of Singapore, Singapore）

12:00 〜 13:00 Research Posters 12
Chairperson Yuichi Kimura（Ohu University, Japan）

P.57 In Vitro Comparison of Fracture Resistance of Endodontically Treated Tooth after Mechanical Instrumentation with Different Master Apical File Size
Paveepong Tanompetsanga（Rangsit University, Thailand）

P.58 Cyclic Fatigue Analysis of iRaCe Sequence（FKG Dentaire, La Chaux de Fonds, Switzerland） in Extracted Human Teeth, Based on a Destructive Testing Lab
Marcelo Rolla（Brazilian Air Force, Brazil）

P.59 Evaluation of the Effect of Root Canal Preparation Size and Flaring on the Depth of Irrigant Penetration
Hussain Faisal Al-Huwaizi（University of Baghdad, Iraq）
P.60 Prevention of Parachloroaniline Precipitation in Simulated Lateral Canals during Final Rinse of Endodontic Treatment: An in-vitro study
Ibrahim Ethem Yaylali (Gulhane Medical Academy, Turkey)

P.61 Removal of Chlorhexidine Gel from Simulated Root Canal Irregularities: an in-vitro Study
Yasar Meric Tunca (Gulhane Medical Academy, Turkey)

P.62 Effectiveness of 10% Citric Acid and 95% Alcohol on Para-chloroaniline Precipitate, a Leakage Study
Jaruma Beau Sakdee (Srinakharinwirot University, Thailand)

12:00 〜 13:00 Research Posters 13
Chairperson Kunihiko Yoshiba (Niigata University, Japan)

P.63 Analysis of Cytotoxic Mechanism of Hypochlorous-acid Electrolyzed Water
Yuki Ide (Meikai University, Japan)

P.64 SEM Observations of Dentin Walls Treated with Endodontic Agents after Retropreparation
Kyoko Arai (Nippon Dental University, Japan)

P.65 A Comparative Study of Contact Angles and Penetration of Different Concentrations of Cetrimide Mixed in EDTA
Thanida Poonyarit (Chiangmai University, Thailand)

P.66 Comparison of the Removal Techniques of Calcium Hydroxide from Root Canals
Yoko Ogura (Nippon Dental University, Japan)

P.67 Management of Complicated Crown Fractures on Anterior Teeth Caused by Traumatic Injury
Nanik Zubaidah (Airlangga University, Indonesia)

P.68 Assessment of Apical Leakage of Different Endodontic Sealers using a New Method for the Leakage Measurement (In vitro study)
Masoud Khoory (Ajman University of Science & Technology, UAE)

12:00 〜 13:00 Research Posters 14
Chairperson Kan-ichi Nakagawa (Pacific Endodontic Research Foundation JAPAN, Japan)

P.69 Physical Properties of New Root Canal Sealer Including Oleic Acid and Low Concentration of Eugenol
Munehiro Maeda (Nippon Dental University, Japan)

P.70 Sealing Ability of S-PRG Filler-containing Root Canal Sealer in Five-year Water Storage
Tomohide Ueyonahara (Health Sciences University of Hokkaido, Japan)

P.71 The Polymerization Rate of Sealers
Hitoshi Sakaue (Showa University, Japan)

P.72 Effect of Canal Taper and Plugger Size on Warm Gutta-percha Obturation of Lateral Depressions
Hisashi Suguro (Nihon University, Japan)

P.154 Non-surgical Microscopic Approach of Endodontic Hopeless Teeth: Case Report
Kan-ichi Nakagawa (Pacific Endodontic Research Foundation JAPAN, Japan)

12:00 〜 13:00 Research Posters 15
Chairperson Toshiko Ozawa (Tsurumi University, Japan)

P.73 Contributions of Microstructures and Compositions to Mechanical Properties of Dentin
Yuko Takeda (Osaka University, Japan)
P.74  A Clinical Survey Concerning Cracks and Fractures of Vital Teeth
Miki Ichimaru (Kyushu Dental College, Japan)

P.75  The Use of Physics Forceps in Intentional Replantation: a Case Report
Bohoon Kim (Pusan National University, Korea)

P.76  Retreatment of Mandibular Molar Tooth with Vertical Root Fracture
Hicran Donmez (Ege University, Turkey)

P.77  Surgical Endodontic Treatment of the Central Incisor Infected by Lateral Canal: a Case Report
Jungmin Lee (Kyung Hee University, Korea)

Clinical Case Presentation Room 7F Hall B7

Chairpersons
Yoshifumi Kinomoto (Kinomoto Dental Office/ Osaka University, Japan)
Yoshihiko Hayashi (Nagasaki University, Japan)
Shu Abe (Heiwa Dental Clinic, Japan)
Keiso Takahashi (Ohu University, Japan)
Hideki Okumura (Okumura Dental Clinic, Japan)
Yasuhisa Tsujimoto (Nihon University, Japan)
Gin-ichiro Hata (Osaka Dental University, Japan)
Shigeru Shoji (Tohoku University, Japan)

12:15 〜 12:25  Clinical Case Presentations 1

CC.P.1 Three-rooted Mandibular First Molar (Radix Entomolaris): Three Case Reports
Taha Ozyurek (Ondokuz Mayys University, Turkey)

CC.P.2 A Case of Mandibular First Premolar with Four Root Canals
Tomoji Hirose (Ai Dental Clinic, Japan)

CC.P.3 Anatomical Study on the Root Apex
Tadashi Mizutani (Mizutani Dental Clinic, Japan)

CC.P.4 Single Visit Endodontic Treatment with Direct Cuspal Coverage Restoration in Left Mandibular First Molar
Christine Hendriono (Trisakti Dental University, Indonesia)

CC.P.5 Dental Amalgam Restoration Associated Oral Lichenoid Reaction
Elizabeth Fitriana Sari (Universitas Padjadjaran, Indonesia)

CC.P.6 Consideration of the Arrangements about the Fiber-reinforced Composite Resin Post & Core
Katsuyuki Atsumi (Dental Clinic K, Japan)

CC.P.7 Endodontics for Refractory Apical Periodontitis
Katsunori Kunoki (Kunoki Dental Clinic, Japan)

CC.P.8 Withdrawn

12:25 〜 12:35  Clinical Case Presentations 2

CC.P.9 A Case Series Associated with Endo-perio Lesions
Hacer Aksel (Hacettepe University, Turkey)

CC.P.10 Conventional Endodontic Treatment for Tooth with Endodontic-Periodontic Lesion (a Case Report)
Diani Prisinda (Padjadjaran University, University of Indonesia, Indonesia)

CC.P.11 Conventional Endodontic Treatment In Endo-Perio Lesions
Shalina Ricardo (University of Indonesia, Indonesia)

CC.P.12 Treatment of Fused Maxillar Central Incisor with Supernumeray Tooth
Yagmur Yalcin (Istanbul University, Turkey)
CC.P.13 Management of Intrusive Luxation: a Case Series
Vijay Kumar (All India Institute of Medical Sciences, India)

CC.P.14 Reimplantation of Endodontically Treated Upper Canine with Cervical Root Fracture
Tugba Turk (Ege University, Turkey)

CC.P.15 Repair of Furcation Perforation with Mineral Trioxide Aggregate (MTA) (Two Case Reports)
Ratna Indriutami (University of Indonesia/ Cipto Mangunkusumo Hospital, Indonesia)

CC.P.16 Non Surgical Endodontic Retreatment of Multiple Perforation and Open Apex Cases Successfully Retreated with MTA using Endo Microscope with Good Bone Healing
Lom Harshan Simlote (University of the East, Philippines)

12:35 〜 12:45 Clinical Case Presentations 3

CC.P.17 Root Dilaceration and Oblique Root Fracture of Upper Left Canine after Trauma: a Case Report
Taha Ozyurek (Ondokuz Mayis University, Turkey)

CC.P.18 Root Canal Treatment on Large Periapical Lesion
Afriani Nov Angellina Sagala (Universitas Indonesia, Indonesia)

CC.P.19 Revascularization of Immature Permanent Teeth with Apical Lesion
Shin-ichi Iwaya (Iwaya Dental Clinic, Japan)

CC.P.20 Effective Treatment Protocol for the Endodontic Resurgery: a Case Report
Kenji Yoshida (Fukunishi Dental Clinic, Japan)

CC.P.21 Evaluation of Electronics Methods to Determine the Working Length
Carlos Menezes Aguiar (Universidade Federal de Pernambuco, Brazil)

CC.P.22 For Safe and Assured Endodontic Treatment using −JH-endo System−
Akihito Yamauchi (Cocolo Dental Clinic, Japan)

CC.P.23 Adhesion of Fiber Post & Core
Yasuo Fukuchi (Fukuchi Dental Office, Japan)

CC.P.24 A Case of Occlusal Reconstruction using Transplantation and Implant
Syogo Shioji (Union Dental Clinic, Japan)

12:45 〜 12:55 Clinical Case Presentations 4

Adham Abdel Azim (University of Tennessee, USA)

CC.P.26 Withdrawn

Taha Ozyurek (Samsun Ondokuz Mayis University, Turkey)

CC.P.28 Management of an Internal Root Resorption of Maxillary Right Lateral Incisor
Burcu Serefoglu (Ege University, Turkey)

CC.P.29 Management of Perforating Internal Resorptive Defect with Mineral Trioxide Aggregate: a Case Report
Lom Harshan Simlote (University of the East, Philippines)

CC.P.30 Treatment of Root Resorptions with MTA: Case Report
Yagmur Yalcin (Istanbul University, Turkey)

Kazuhiro Fukunishi (Fukunishi Dental Clinic, Japan)