PROGRAM AND PROCEEDING BOOK

The 3rd ASEAN Plus and Tokushima Joint International Conference

Theme:
“Strategic Achievement of Oral Sciences and Promotion of Quality of Life and Professional Education for Oral Hygienists by Using Information and Communication Technology”

Organized by:

Faculty of Dentistry
Hasanuddin University
Makassar, Indonesia

Faculty of Dentistry
The University of Tokushima
Tokushima, Japan

Venue: Imperial Aryaduta Hotel, Makassar, Indonesia
Date: December 4th-5th, 2014
Program and Proceeding Book

The 3rd ASEAN Plus and Tokushima Joint International Conference on “Strategic Achievement of Oral Health Promotion of Quality of Life and Professional Education for Oral Hygienists by Using Information and Communication Technology”

Organized by

Collaboration,
Faculty of Dentistry The University of Tokushima
Faculty of Dentistry Hasanuddin University

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The 3rd ASEAN Plus and Tokushima Joint International Conference on
"Strategic Achievement of Oral Sciences and Promotion of Quality of Life and
Professional Education for Oral Hygienists by Using Information and
Communication Technology"

Organized by
Faculty of Dentistry Hasanuddin University
Faculty of Dentistry Hasunuddin University

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December 4th, Thursday, Allamanda Ballroom

9:00 am - 9:15 am: Opening Remarks by Dr. Toshiaki Ishihara

9:15 am - 10:55 am: Session 1 “Biomaterials & Tissue Engineering”
Chairpersons: Prof. Takeda Noma (The University of Tokushima) and Dr. Susilowati (Hasanuddin University)

9:15 - 9:35: Keynote speaker 1
“Extremely Low Frequency Pulsed Magnetic Fields Accelerate Osteoblast Differentiation”
Megumi Watanabe
(Dept. Prosthodontics, Tokushima Univ. Grad. Sch.)

9:35 - 9:55: Keynote speaker 2
“The Effect Of Oxygen Hyperbaric Therapy On Activity Of Collagenase 2 In Hyperglycemic Gingiva Rats”
Dian Mulawarmanti
(Dept. Oral Biology, Hang Tuah University)

9:55 - 10:55: General speakers (Presentation 10 min + discussion 5 min)

Arya Adiningrat
(Dept. Molecular Biology, Tokushima Univ. Grad. Sch.)

10:00 - 10:25: “Combined Effects Of Intranasal Porcine Parathyroid Hormone (PTH 1-34) And Low-Intensity Pulsed Ultrasound On Osteoporotic Bone Fracture Healing In Rats”
Karima Qurnia Mansjur
(Dept. Orthodontics, Tokushima Univ. Grad. Sch.)

10:25 - 10:40: “Basic Research And Clinical Application Of Propolis In Conservative Dentistry And Endodontic Treatment”
Ardo Sabir
(Dept. Conservative Dentistry, Hasanuddin University)
10:40 - 10:55
“Analysis Of Gene Mutation Of Topoisomerase II (Gyrase A) In Bactericidal Activity Which Is Resistant To Ciprofloxacin”
Irene Edith Rieuwpassa
(Dept. Oral Biology, Hasanuddin University)

10:55am - 3:35pm Session 2 “Mastication And Swallowing”
Chairpersons: Prof. Yoshizo Matsuka (The University of Tokushima) & Prof. Mansjur Nasir (Hasanuddin University)

10:55 - 11:15 Keynote speaker 1
"Oral Health Improvement Of School Age Children And Elderly In Indonesia Related To Quality Of Life"
Armastastra Bahar
(Dept. Dental Public Health, Univ. of Indonesia)

11.15 - 11.35 Keynote speaker 2
“Clinical Significance Of The Main Occluding In Prosthodontic Treatment”
Takaharu Goto
(Dept. Prosthodontics, Tokushima Univ. Grad. Sch)

Special lecture:
Invited Speakers from Asian Countries and World

11.35 - 12.30 Special lecture 2 “CHH and LBS: Protein-Containing Porous Composite Sponge Scaffold For Biomedical Applications: Biocompatibility Evaluation And An Animal Study In Rabbit”
Keng-Liang Ou
(Taipei Medical University, Taiwan)

12.35pm - 1.35pm Lunch

1.35 - 2.35 “Afflictions Of The Lips”
Hashim Yaacob
(Quest International University Perak, Malaysia)
2.35 - 3.35  General Plenary Session (Posters Discussion 5 min)

2.35 - 2.50  “Mastication Muscle Activity During Awake/Sleep State With All Day EMG Recording”
Katsuhiro Omoto
(Dept. Prosthodontics, Tokushima Univ. Grad. Sch)

2.50 - 3.05  “Leptin Role In The Process Of Orthodontic Tooth Movement”
Eka Erwansyah
(Dept. Orthodontics, Hasanuddin University)

3.05 - 3.20  “A Study Of Bolton Analysis, Arch Form And Tooth Inclination In Orthodontic Treatment”
Edy Heriyanto Habar
(Dept. Orthodontics, Hasanuddin University)

3.20 - 3.35  “Plaque Accumulation And Matrix Metalloproteinase 8 In Gingival Crevicular Fluid After Insertion Porcelain Fused To Metal Jacket Crown”
Ike Damayanti Habar
(Dept. Prosthodontics, Hasanuddin University)

3.35pm - 3.50pm  Coffee Break

3.50pm - 5.50pm  Poster presentations and Discussion

7.00pm - 10.00pm  Banquet and Gala Dinner
December 5th, Friday, Allamanda Ballroom

9:00 am - 10:55 am  Session 3 "Oral Health Improvement, Oral Cancer, Operative Dental

Chairpersons: Prof. Yoichiro Miyake (The University of Tokushima) & Prof. Sri Oktawati ( Hasanuddin University)

9.00 - 9.20  Keynote speaker 1
"Adenylate Kinase 2 Regulates Neutrophil Differentiation Via Mitochondrial Function"
Ayako Tanimura
(Dept. Molecular Biology, Tokushima Univ. Grad. Sch)

9.20 - 9.40  Keynote speaker 2
"Challenge Of Relapse After Orthodontics Treatment And Bone Remodeling"
Tita Ratya Utari
(Dept. Orthodontics, Univ. Muhammadiyah Yogyakarta)

9.40 - 10.55  General speakers (Presentation 10 min + discussion 5 min)
9.40 - 9.55  "Effect Of Whey On Age-Dependent Changes In Morphology, Gene Expression And Function Of Salivary Glands"
Tomasz Pieczonka
(Dept. Medical Pharmacology, Tokushima Univ. Grad. Sch.)

9.55 - 10.10  "Quantification Of Cultivable Bacteria In Chronic Apical Periodontitis Before And After Chemomechanical Preparation With Two Kinds Of Root Canal Preparers"
Maria Tanumihardja
(Dept. Conservative Dentistry, Hasanuddin University)

10.10 - 10.25  "Analysis Of The Relationship Between Fluoride Exposure In Drinking Water With The Abnormality Of Periodontal Diseases"
A. Mardiana Adam
(Dept. Periodontics, Hasanuddin University)
10.40 - 10.55  "Alpha-1 Adrenergic Receptor Activation-Induced Translocation Of AQP5 And Lipid Rafts In Rat Parotid Acinar Cells"  
Aneta Bragiel  
(Dept. Medical Pharmacology, Tokushima Univ. Grad. Sch.)

10.55 - 11.15  "The Effect Of Geripin On Dendritic Cell Activation"  
Satoru Shindo  
(Dept. Conservative Dentistry, Tokushima Univ. Grad. Sch.)

11.35 am - 11:35 am  Session 4 “Dental Nutrition and General Health”  
Chairpersons: Prof. Eiji Tanaka (The University of Tokushima) & Maria Tanumihardja (Hasanuddin University)

11.55 - 11.15  Keynote speaker 1 from Indonesian Consortium  
“Measurement Of Nickel And Chromium Levels In Serum Of Patients Wearing Fixed Orthodontic Appliance”  
Susilowati  
(Dept. of Orthodontics, Hasanuddin University)

11.55 - 11.35  Keynote speaker 2  
“Sequence Analysis And in vitro Study Of Novel Mutations Identified In Patients With Tooth Agenesis”  
Silvia Naomi Mitsui  
(Dept. Orthodontics, Tokushima Univ. Grad. Sch.)

12.00 - 2.00 pm  Jum’at Prayer and Lunch

2.00 - 3.25 pm  Session 5 “General Topics”  
Chairpersons: Prof. Sri Oktawati (Hasanuddin University) & Prof. M. Hendra Chandha (Hasanuddin University)

2.00 - 2.20  Keynote speaker 1  
“The Expression Of Calprotectin In Pathogenesis Of Gingivitis”  
Suryono  
(Dept. Periodontics, Gadjah Mada University)
2.20 - 2.40  Keynote speaker 2
"Effects of Low Intensity Laser Therapy On The
Orthodontic Tooth Movement"
Ida Bagus Narmada
(Dept. Orthodontics, Airlangga University)

2.40 - 3.00  General speakers (Presentation 10 min + discussion 5 min)
2.40 - 2.55  “Preparation Guidance And Bite Record Template Using
Individual Plastic Coping”
Rudi Wijianto
(Indonesian Association of Aesthetic Dentistry)

2.55 - 3.10  “Antibacterial Activity Test Of South Sulawesi Propolis Extract
Against Streptococcus mutans”
Asdar Gani
(Dept. Periodontics, Hasanuddin University)

3.10 - 3.25  “Leptin Expression in Dental Pulp Capping With Calcium
Hydroxide And Mineral Trioxide Aggregate (MTA)”
Aries Chandra Trilaksana
(Dept. Conservative Dentistry, Hasanuddin University)

3.25-3.45  Total Discussion
3.45pm - 4.00pm  Closing Remarks by Dean Prof. Mansjur Nasir, Ph.D
4.00pm - 4.15pm  Conclusion
Poster Presentation

December 4th, Thursday, Masamba 5 Room

1:50pm - 5:50pm (Masamba 5 Room)

P1 Effects Of Decreased Occlusal Loading On The Mandibular Bone Characteristics
Natsuko Hichijo, Eiji Tanaka, Nobuhiko Kawai, Leo J. van Ruijven, Geerling E. J. Langenbach
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P2 The Effect Of The Education Program “Chewing30” Through The Information And Communication Technology System.
Tokiko Doi1, Daisuke Hinode1, Hiromi Nakae1, Masami Yoshioka2, Kanako Tamatani3, Miwa Matsuyama4, Hiroki Iga5, Masanori Nakano6, Yuzuru Fukushima7
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3 Dental Hygiene Section, Tokushima University Hospital, Tokushima, Japan.
4 Department of Oral Health Care and Rehabilitation, Institute of Health Biosciences, the University of Tokushima Graduate School, Tokushima, Japan.
5 Department of Oral Health Care Education, Institute of Health Biosciences, The University of Tokushima Graduate School, Tokushima, Japan.
6 School of Oral Health and Welfare, Faculty of Dentistry, The University of Tokushima, Tokushima, Japan.
7 Tokushima Dental Association, Tokushima, Japan.
P3  Effects Of Vibratory And Gustatory Stimulations On Cerebral Blood Flows
Noriharu Nakamura, Tsuyoshi Koda, Kana Hashida, Kan Nagao, Tetsuo Ichikawa
Department of Oral & Maxillofacial Prosthodontics and Oral Implantology,
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P4  Mechanical Stress - Responsive Micro-RNA
Yuki Iwakaki, Noriko Mizusawa*, Tomotake Yoritoki**, Ichikawa Testuo,
Katuhiko Yoshimoto*
Department of Oral & Maxillofacial Prosthodontics,*Department of Medical
Pharmaceutical Sciences, and** Institute of Health Biosciences, Tokushima University
Graduate School. ** Tokushima University Hospital, Oral Implant Center 3-18-15
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P5  Possibility Of Contactless Digital Preliminary Impression For Complete
Dentures
Takashi Matsuda, Takaharu Goto, Toshiya Kashiwabara, Kan Nagao, Tetsuo
Ichikawa
Department of Oral & Maxillofacial Prosthodontics, Institute of Health
Biosciences, The University of Tokushima Graduate School, 3-18-15
Kuramoto-cho, Tokushima-city, Japan. Email:matsutake@dent.tokushima-u.ac.jp

P6  Role Of Smad3 And Lysophospholipid Receptor SIP3 Signaling In The
Pathogenesis Of TMJ-OA
Hiroki Mori, Takashi Izawa, Eiji Tanaka
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Biosciences, The University of Tokushima Graduate School, 3-18-15 Kuramoto-
cho, Tokushima 770-8504, Japan. c301251016@tokushima-u.ac.jp

P7  Effects Of Low-Intensity Pulsed Ultrasound On Salivary Gland
Minami Satō1, Kumiho Nagata1, Shingo Kuroda1, Karima Q Mansjur1, Shinya
Horiuchi1, Yoshiko Yamamura2, Masayuki Azuma2, Eiji Tanaka1
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The 3rd ASEAN Plus and Tokushima Joint International Conference
P8 Catechin Inhibition Toward Tobacco Pyrolysate Extracts
Tri Purnami Dewi
Faculty of Dentistry Mahasaraswati Denpasar University, Denpasar, Indonesia

P9 Human Beta Defensin Peptide Expression And Dental Caries Experience In Children
Retno Indrawati1, Muhammad Lutfi2, Yoes Prijatna Dachlan3
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3 Parasitology Department Faculty of Public Health, Gadjah Mada University, Surabaya, Indonesia.

P10 Protection Effect Of Penaeus monodon Shrimp Shell Waste Suplementation To Alveolar Bone Resorption Of Osteoporosis Rats
Syamsulina Revianti*, Puguh Bayu Prabowo**
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P11 Antioxidant In Ordotonic Treatment
Wiwekowati
Biomedical Faculty of Medicine Doctoral Program of Udayana University, Denpasar, Indonesia.

P12 Waste Materials From Shrimp Sheels As A Source Of Nano Chitosan (Laboratory Experimental)
Octarina*, CarentiaDivin**, LaurentiaDivin**
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P13 Correlation Of The Amount Of Salivary Neutrophils And Expression Of Interleukine 8 (IL-8) In Severe Early Childhood Caries
Muhammad Luthfi1, Retno Indrawati1, Yoes Prijatna Dachlan2
1 Department of Oral Biology, Faculty of Dentistry
2 Department of Parasitology, Faculty of Medicine Airlangga University, Surabaya, Indonesia.
P14 Modification Of Conventional Removable Partial Denture For Aesthetic
Enhancement

Fahmi Yunisa
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P15 Regulatory Pathway Of NLRP3 Expression In Human Odontoblast Cells
Induced By Resin Monomer HEMA

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P16 Antibacterial Test Of Crude Extract Pineapple Hump (Ananas cosmosus) In
Inhibiting Growth Of Streptococcus mutans

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Jakarta, 11440, Indonesia.
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P17 The Effect Of Sticophus hermanii Extract To The Level Of Matrix
Metalloproteinase (MMP)-8 In Porphyromonas gingivalis-Induced Periodontitis

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Surabaya, Indonesia.
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P18 The Effect Of Hyperbaric Oxygen To The Growth Of Mucormycosis Age
Rhizopusoryzae Strain CBS 110.17 (An In vitro Preliminary Study)

Fanny M. Laihad1, I Ketut Sudiana2, M. Gurtino Suryokusumo3, Dihayu
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Indonesia, 5Institute Tropical Disease Airlangga, Surabaya, Indonesia.
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P19 Low Oxygen Tension Effect On Cancer Cell Migration To The Expression Of Fibroblast Growth Factor 2 (FGF2) And Vascular Endothelial Growth Factor (VEGF)
Sri Wigati Mardi Mulyani1, Ernie Maduratna Setiawati2, Eha Renwi Astuti1
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Faculty of Dentistry Airlangga University, Surabaya, Indonesia.
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P20 Evaluation Of Dental Clinical Coronary Infection At School Of Muhammadiyah University Of Yogyakarta (PSPDG UMY)
Abu Bakar1, Widyandana2, Rossi Sanusi2
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2 Department of Medical and Health Professions Education, Faculty of Medicine, Gadjah Mada University, Yogyakarta, Indonesia.

P21 Effectiveness Solution Leather Cocoa Bean Extract Ethanol 0.1% Against Decrease In Number Of Colonies Of Streptococcus mutans In Salivary 12-14 Year Olds
Fajrani, Annisa Wicita Mustain
Department of Pediatric Dentistry, Faculty of Dentistry Hasanuddin University, Makassar, Indonesia.

P22 Analysis Of Tumor Necrosis Factor-Alpha (TNF-α) Expression In Inflamed Rat Dental Pulp Tissue Following Root Canal Treatment (Histology & Immunohistochemistry Study)
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P23 Inhibition And Effectivity Of Curcuma Xanthorriza Roxb Against Total Colony Of Streptococcus mutans in vivo
Daniel Tetan-El, M. Ilyas, Rasmidar Samad
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P24 Impact Of Prebiotics Probiotics Supplementing Treatment On Levels Of hs-CRP In Patients With Risk of Cardiovascular Disease
Rasmidar Samad, Olivia Angreani Willianto
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P25 Inhibition And Anti Proliferation Human Tongue Cells Cancer Supri’s CCRF-CEM (Sp-CI) Invasion With Cox-2 Inhibitor (Celecoxib)
Harun Achmad*, Dini Safitri*, Supriatno**
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P26 Prevalence Of Dental Caries And Anterior Teeth Relation To Down’s Syndrome Children In The City Of Medan
Harun Achmad*, Stefan Wijaya**
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P27 Dental Caries Prevalence And Severe Decay in Upper Primary Schoolchildren Aged 8-12 Years Old In Bulukumba District, South Sulawesi, Indonesia

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P28 Effect Of Scaling And Root Planning Treatment On Cholesterol Levels In Patients With Coronary Heart Disease (CHD) Risk.

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P29 Stress Level And Dental Caries Status Of Women Prisoners In Class I Prison Of Makassar City

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Department of Dental Public Health, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

P30 The Inhibition Of Xylitol On The Growth Of Oral Microorganisms (Streptococcus mutans, Staphylococcus aureus, Candida albicans) In vitro Study

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P31 Manifestations Of Oral Candidiasis Types In HIV/AIDS Patients At Dr Wahidin Sudirohusodo Hospital Makassar

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Department of Oral Medicine, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.
P32 The Relationship Of Orthodontic Treatment With Psychosocial Status On Dental Students

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2 Department of Orthodontic, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

P33 Effectivity Of Propolis In Reducing Volatile Sulfur Compound (VSC) Cysteine Compound (H2S) On Halitosis Patients

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P34 Recurrent Aphtosa Stomatitis (RAS) Versus Women Hormone

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P35 Frenectomy For Ortho-Perio Multidicipliner Treatment

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** Residence of Periodontics Specialist Program, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

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P36 Effectiveness Of Sarang Semut Plants (Myrmecodia pendens) Againsts Coffea arabica

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2 Department Oral Medicine Faculty of Dentistry Hasanuddin University, Makassar, Indonesia.
P37 Effectivity Of Probiotic Drink In Reducing The Amounts Of Volatile Sulfur Compounds (VSC) In Patients Halitosis
Nia Lieanti\textsuperscript{1}, Rasmidar Samad\textsuperscript{2}
\textsuperscript{1}Student of Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.
\textsuperscript{2}Department of Dental Public Health, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

P38 Effectiveness Of Mouthwash That Contains Cloves (Syzygium aromaticum) In Lowering The Levels Of Volatile Sulfur Compound (VSC) Components Cysteine (H\textsubscript{2}S) In Patients Halitosis
Risca Lisal\textsuperscript{1}, Rasmidar Samad\textsuperscript{2}
\textsuperscript{1}Student of Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.
\textsuperscript{2}Department of Dental Public Health, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

P39 The Suitability Of \textit{Candida albicans} In The Oral Cavity And Vagina Of Menopause Woman
Herlina
Department of Oral Medicine, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

P40 Reliability And Validity Of The Indonesian Version Of Modified Dental Anxiety Scale.
Fitrian Rikasianti\textsuperscript{1}, Rasmidar Samad\textsuperscript{2}
\textsuperscript{1}Student of Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.
\textsuperscript{2}Department of Dental Public Health, Faculty of Dentistry, Hasanuddin University, Makassar, Indonesia.

P41 The Antibacterial Effectiveness Of Apple (\textit{Pylus malius}) Towards The Growth Of \textit{Lactobacillus} (An In vitro Study)
Ashariah Kasamuddin\textsuperscript{1}, Ardo Sabir\textsuperscript{2}
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P42 Effect Of Tuak Solution On The Microhardness Of Human Enamel Teeth (An In vitro Study)

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P43 Chronic Apical Abscess Due To The Class III Composite Restoration Failure: A Case Report

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P44 Cyclooxygenase Inhibitors (COX)-2 As Anti Oral Cancer

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P45 The Effectiveness Of 3 Eugenol Brands Towards The Growth of Lactobacillus (In vitro Study)

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Poster 20
Evaluation Of Dental Clinical Skills Laboratory Teaching At Dental School Of Muhammadiyah University Of Yogyakarta (PSPDG UMY)

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Background: Skill laboratory at PSPDG UMY is implemented to facilitate learning clinical skills. Evaluation of dental clinical teaching at PSPDG UMY as the one of dental schools in Indonesia revealed that student-centered learning is necessary to improve clinical faculty instructor abilities in dental skills laboratory.

Objective: To evaluate clinical faculty instructor ability and dental clinical teaching skills laboratory at PSPDG UMY.

Methods: This study was a mixed method approach. Quantitative data analysis was conducted by distribute dental clinical teaching questionnaire (1-5 likert scale) to 91 fourth level undergraduate students containing close and open question. The content of questionnaire was validated by 4 experienced dental faculty instructor and 10 third level undergraduate students. The structure of questionnaire was validated by measuring Chronbach’s alpha, factorial analysis and close open question correlation. Focus group discussion using 6 participants of faculty instructor was conducted to explore their perceptions about skills lab at PSPDG UMY.

Results: Quantitative data analysis showed student good perception of communication skills (Mean= 19.24/ 5 items), interpersonal skills (30.9/ 9 items), professional skills (23.7/ 5 items), and didactics skills (51.5/ 15 items) of faculty instructors. At open comment questionnaire, the students complain about: (1) instructors who came late, (2) different method, subject matter and knowledge of instructors, and (3) objectivity in assessment. Focus group discussion coding data analysis results suggested PSPDG UMY to conduct briefing before clinical teaching session, clinical teaching training, and engagement training and inter-culture introduction seminar.

Keywords: evaluation, clinical teaching abilities, skills laboratory.

Poster 21
Effectiveness Solution Leather Cocoa Bean Extract Ethanol 0.1% Against Decrease In Number Of Colonies Of Streptococcus mutans In Salivary 12-14 Year Olds

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Background: Cacao Bean Husk Ethanol Extract (CBHEE) has polifenol that active as anti-bacterial, especially anti-gluosyltransferase. 

Aim: This study aimed to see the effectiveness of cacao bean husk ethanol extract (CBHEE) to reduce the number of mutans streptococci colonies in children (with young permanent teeth) saliva, when CBHEE used as mouth rinse.

Materials and methods: This study used cross-sectional study design with time-series experimental study and used simple random sampling to get 30 subjects. The chosen subjects are those who have middle OH-S status. Each subject was given the same intervention, the first step is collected saliva from subjects (prior to intervention), the second step is subjects were given 15 ml of CBHEE 0.1% mouth rinse to rinse their mouth about 30 seconds. After intervention, saliva was collected twice in 15 minutes and 30 minutes after intervention. In the result, the number of mutans streptococci colonies were measured in Colony Forming Units (CFU) and the data was statistically analyzed using ANOVA and paired t-test. Data analyzed and processed using SPSS 22.0 for windows version.

Results: From the data statistically showed significantly the reduction of Streptococcus mutans colonies before and after 30 minutes of intervention. Before intervention, there were 59.10 CFU/ml of mutans streptococci, and then 15 minutes after intervention it showed reduction of mutans streptococci become 25.73 CFU/ml and after 30 minutes of intervention, the counts of mutans streptococci showed reduction to 9.40 CFU/ml. From the test result, statistical value of this research was p=0.001 (p<0.05), which means that the reduction of mutans streptococci counts was significant.

Conclusion: Using cacao bean husk ethanol extract as mouth rinse for children has been proven highly effective in reducing mutans streptococci colony counts in mouth.

Keywords: Cacao bean husk ethanol extract, anti-gluosyltransferase, mouth rinse, mutans streptococci.

Poster 22
Analysis of Tumor Necrosis Factor-Alpha (TNF-α) Expression In Inflamed Rat Dental Pulp Tissue Following Propolis Application (An Immunohistochemistry Study)

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