The 60th General Session of the Japanese Society for Dental Materials and Devices(JSDMD)-II

October 13 (Saturday) – 14 (Sunday), 2012
Centennial Hall Kyushu University School of Medicine
1-1 Maidashi 3-chome Higashi-ku, Fukuoka 812-8582, JAPAN

October 13 (Saturday)
9:25 – 9:30 Opening Remark
9:30 – 11:00 General Presentation (Oral Session)
Hall A

A-1 Effect of in vivo stress distribution on biological apatite orientation in mandible
ONakano Takayoshi, Fujitani Wataru
Osaka University

A-2 Evaluation of bone formation guided by DNA/protamine complex with FGF-2 in rat calvarial defect model
OShinozaki Yosuke[1], Mori Nana[1], Ohno Jun[1], Kido Hirofumi[1], Hayakawa Tohru[2], Fukushima Tadao[1]
[1]Fukuoka Dental Collage, [2]Tsurumi University

A-3 A study on reparative dentin formation by soy isoflavone in rats
OHayashi Keijiro, Handa Keisuke, Koike Toshiyuki, Saito Takashi
Health Sciences University of Hokkaido

A-4 Trial of bone re-generation of critical-size bone defects formed in rat calvarias by composites consisting of porous apatite particles and collagen
OHatakeyama Wataru, Taira Masayuki, Kihara Hidemichi, Kondo Hisatomo
Iwate Medical University

A-5 Micro morphological study of reparative dentin induced by Phosphophoryn/Alginate gel composite in rats
OKoike Toshiyuki, Handa Keisuke, Hayashi Keijiro, Saito Takashi
Health Sciences University of Hokkaido

A-6 Effect of water-dispersible metal-based nanoparticles on macrophages
OHashimoto Masanori[1], Toshima Hirokazu[1], Yonezawa Tetsu[2], Kawai Koji[2, 3], Kaga Masayuki[1], Endo Kazuhiko[1]
[1]Health Sciences University of Hokkaido, [2]Hokkaido University, [3]Miyoshi Oil & Fat Co., Ltd.

Hall A
13:00 – 14:00 Special Lecture
14:00 – 16:30 General Presentation (Oral Session)

A-7 The inhibition of initial bacterial adhesion by adsorption of lactoferrin on materials for the implant-abutment
ONagano Futami, Hashimoto Masanori, Ida Yusuke, Toshima Hirokazu, Endo Kazuhiko
Health Sciences University of Hokkaido

A-8 Corrosion behavior of DLC-coated titanium in simulated physiological solutions
OEndo Kazuhiko, Iijima Masahiro, Ida Yusuke, Hashimoto Masanori, Nagano Futami, Toshima Hirokazu, Mizoguchi Itaru
Health Sciences University of Hokkaido

A-9 In vivo osseointegration of pyrocarbon-coated oxygen-diffused Ti implants
OYamamoto Osamu
Yamagata University

A-10 In vitro evaluation of marginal fit of the implant-abutment connection by swept-source optical coherence tomography
OKikuchi Keisuke[1], Akiba Norihisa[1], Sumi Yasunori[2], Minakuchi Shunsuke[1]
[1]Tokyo Medical and Dental University, [2]National Center for Geriatrics and Gerontology

A-11 Bone formation of alendronate immobilized implant towards rat maxillary bone
ORaita Yuki[1], Hayakawa Tohru[1], Sato Mitsunobu[2], Morito Mitsuhiko[1]

[1]Tsurumi University, [2]Kogakuin University

A-12 Zirconia coating on Zr-Nb alloys by high-temperature oxidation -Effect of high-temperature oxidation on color and thickness of the oxide layer-

OYu Miao, Kondo Ryota, Su Yaratu, Tsutsumi Yusuke, Doi Hisashi, Nomura Naoyuki, Hanawa Takao, Kasugai Syohei

Tokyo Medical and Dental University

A-13 Mechanical property of octacalcium phosphate (OCP)/apatite-type I collagen composite with various mineral content

OIijima Mayumi, Wakamatsu Nobukazu, Kamemizu Hideo, Komada Yuuko, Adachi Masanori, Doi Yutaka

Asahi University

A-14 Antibacterial activity of apatite photocatalyst

OKomada Yuko, Kamemizu Hideo, Fujii Kazuo, Iijima Mayumi, Horiguchi Takashi, Adachi Masanori, Wakamatsu Nobukazu, Hotta Masato, Shibutani Toshiaki, Doi Yutaka

Asahi University

A-15 Analysis of the aggregated state of a constituent polysaccharide of oral bioflm by QCM method

ONezu Takashi, Sasaki Kaori, Saitoh Setsuo, Taira Masayuki

Iwate Medical University

A-16 Antibacterial activity of chitosan film with nano-structure

OAkasaka Tsukasa, Abe Shigeaki, Watari Fumio

Hokkaido University

October 13 (Saturday)
9:30 - 11:00 General Presentation (Oral Session)
Hall B

B-1 Characteristic evaluation of bonding materials with fluorescence properties

OHamba Yusuke[1], Yamagata Shuichi[1], Akasaka Tsukasa[1], Uo Motohiro[2], Iida Junichiro[1], Watari Fumio[1]

[1]Hokkaido University, [2]Tokyo Medical and Dental University

B-2 Capability evaluation of orthodontic retraction spring by finite element method

OKawamura Jun[1], Kojima Yukio[2], Fukui Hisao[1]

[1]Aichi Gakuin University, [2]Nagoya Institute of Technology

B-3 Evaluation of commercial powder-type denture adhesives - Viscosity characteristics -

OMurata Hiroshi, Kano Hiroshi, Kurogi Tadafumi, Nishimura Masahiro

Nagasaki University

B-4 A study on analysis of OCT images - Application of 1/e2 width

OKurokawa Hiroyasu, Tonegawa Motoka, Iino Masayoshi, Murayama Ryosuke, Shimamura Yutaka, Irokawa Atsushi, Ando Susumu, Miyazaki Masashi

Nihon University School of Dentistry

B-5 Development of gradient functional bone filling material -mechanical analysis by Finite Element Method-

OFukase Yasumasa[1, 2], Sato Takako[1], Hisada Toshiaki[2], Yoneyama Takayuki[1]

[1]Nihon University School of Dentistry, [2]Tokyo University

B-6 Development of laser joining method of thermoplastic resin for denture base and dental alloy

ONaito Daisuke, Kakimoto Kazutoshi, Takahashi Kazuya, Komasa Yutaka

Osaka Dental University

Hall B
14:00 - 16:30 General Presentation (Oral Session)

B-7 14K gold alloy with sponge-like surface as a novel material for porcelain-fused-to-metal restorations

OIda Yusuke, Ohno Hiroki, Kakizaki Mitsugi, Nagano Futami, Hashimoto Masanori, Toshima Hirokazu, Endo Kazuhiko

Health Sciences University of Hokkaido

B-8 Microstructure and hardening in Ag-20Pd-12Au-14.5Cu alloy subjected to aging treatment

OKim Yonghwan[1], Niinomi Mitsuo[1], Hieda Junko[1], Nakai Masaak[1], Cho Ken[1], Fukui Hisao[2]

[1]Tohoku University, [2]Aichi-Gakuin University

B-9 Prevention method of crack generation in laser weld of dental cobalt-chromium alloy casting
OKusunoki Takayuki, Kakimoto Kazutoshi, Takahashi Kazuya, Komasa Yutaka
Osaka Dental University
B-10 Mechanical properties of Zr/Ag composite wires to prevent artifacts in MRI for medical applications
OSakai Takahiro, Kondo Ryota, Suyalatu, Migita Satoshi, Tsutsumi Yusuke, Doi Hisashi, Nomura Naoyuki, Hanawa Takao
Tokyo Medical and Dental University
B-11 Effect on mechanical properties by Mo of Co-Cr-Mo-N alloy for dental casting
ODoi Hisashi, Suyalatu, Migita Satoshi, Tsutsumi Yusuke, Nomura Naoyuki, Hanawa Takao
Tokyo Medical and Dental University
B-12 Evaluation of the mechanical properties of Co-Cr and Ti-Al-V alloy specimens fabricated by additive manufacturing: In comparison with dental casting
OOda Yutaka, Takemoto Shinji, Hattori Masayuki, Yoshinari Masao, Kawada Eiji, Hasegawa Koji, Aichi Tetsuya, MatsumotoNaoya
Tokyo Dental College
B-13 Effects of building atmosphere on the microstructure and mechanical properties of cobalt chromium alloys fabricated by selective laser melting process
OSu Yalatu[1], Nomura Naoyuki[1], Nakamoto Takayuki[2], Doi Hisashi[1], Tsutsumi Yusuke[1], Migita Satoshi[1], Hanawa Takao[1]
[1]Tokyo Medical and Dental University, [2]Technology Research Institute of Osaka Prefecture
B-14 Effects of alloying elements on formation of HAp on biomedical β -type titanium alloys through alkali treatment process
OCho Ken[1], Niinomi Mitsuo[1], Nakai Masaoki[1], Hieda Junko[1], Fukui Hisao[2]
[1]Tohoku University, [2]Aichi Gakuin University
B-15 Electrochemical corrosion behavior of Ti-Nb-Ta-Zr alloy in fluoride-containing solution
OTakemoto Shinji[1], Nakai Masaaki[2], Hattori Masayuki[1], Ichikawa Hiromichi[1], Igarashi Toshio[1], Yoshinari Masao[1], Kawada Eiji[1], Niinomi Mitsuo[2], Oda Yutaka[1]
[1]Tokyo Dental College, [2]Tohoku University
B-16 The effect of dental prosthesis metal ions in the biological immune system
OAdachi Norimasa, Takayama Eiji, Kurachi Masakazu, Isigami Hajime
Asahi University

October 13 (Saturday)
Hall C
9:30 - 15:00 General Presentation (Poster Session) (11:00 - 12:00 Discussion)
[Award Challenge Posters P-1 - P-13]

P-1 Effects of titanium immobilized with the monoclonal antibody to NHE10 on the differentiation of osteoclast and osteoblast cells
OShuto Takahiro[1], Makihira Seicho[1], Mine Yuichi[2], Wachi Takanori[1], Nikawa Hiroki[2], Terada Yoshihiro[1]
[1]Kyushu University, [2]Hiroshima University
P-2 The effect of amorphous calcium phosphate films by radiofrequency magnetron sputtering on TNTZ implants on integration with bone
The effect of amorphous calcium phosphate films by radiofrequency magnetron sputtering on TNTZ implants on integration with bone.
OShiraishi Naru, Narushima Takayuki, Goto Takashi, Niinomi Mitsuo, Suzuki Osam, SasakiKeiichi
Tohoku University
P-3 Effect of laser emission parameters on mechanical properties of laser-treated cast titanium
OHayashi Taro, Kurogi Tadafumi, Murata Hiroshi, Shiraishi Takanobu, Watanabe IKuya
Nagasaki University
P-4 Application to dentistry of selective laser melting (SLM) -Mechanical properties and corrosion resistance of the SLMed Co-Cr-Mo alloys-
OTakaichi Atsushi[1], Suyalatu [1],Nomura Naoyuki[1], Nakamoto Takayuki[2], Hanawa Takao[1], Igarashi Yoshimasa[1]
[1]Tokyo Medical and Dental University, [2]Technology Research Institute of Osaka Prefecture
P-5 Are self-adhesive resin luting cements effective for cementing of FRC post? -Influence of

storage period and thermal cycle-
OSoejima Hirotaka, Takemoto Shinji, Hattori Masayuki, Yoshinari Masao, Kawada Eiji, Oda Yutaka
Tokyo Dental College

P-6 Characterization of self-cleaning dentures with photocatalytic technology
OSawada Tomofumi, Kuwabara Atsushi, Kumasaka Tomonari, Ohno Akinori, Kimoto Katsuhiko
Kanagawa Dental College

P-7 Application of poly-ethoxylated bis-phenol A dimethacrylates for composite resin
OAoyagi Yusuke, Miyasaka Taira, Aoki Harumi, Isida Yosihki
The Nippon Dental University at Tokyo

P-8 DNA/protamine complex can induce bone-formation
OToda Masako[1], Ohno Jun[1], Ozaki Masao[1], Hayakawa Tohru[2], Fukushima Tadao[1]
[1]Fukuoka Dental College, [2]Tsurumi University

P-9 Evaluation of adhesion between biomaterial and epithelium using human 3D epidermal model.
OFuruhashi Kazunori, Akasaka Tsukasa, Kitagawa Yoshimasa, Watari Fumio
Hokkaido University

P-10 Fabrication of calcined hydroxyapatite nanocrystals and its application as coating agents for medical materials
OOmori Yuko[1], Okada Masahiro[1], Furuzono Tsutomu[2], Takeda Syouji[1], Matsumoto Naoyuki[1]
[1]Osaka Dental University, [2]Kinki University

P-11 Synthesis of carbonate apatite foam that uses beta TCP foam as precursor
ONikaido Taro[1], Tsuru Kanji[1], Melvin Munar[1], Matsuya Shigeki[2], Nakamura Seiji[1], Ishikawa Kunio[1]
[1]Kyushu University, [2]Fukuoka Dental College

P-12 Fabrication of spheric carbonate apatite using w/o emulsion method
ONomura Shunsuke[1], Tsuru Kanji[1], Matsuya Shigeki[2], Takahashi Ichiro[1], Ishikawa Kunio[1]
[1]Kyushu University, [2]Fukuoka Dental College

P-13 Characteristics of silicate-based cement produced from alginate impression material
OYamaguchi Nobuaki[1], Tamaki Yukimichi[1], Kataoka Yu[1], Miyazaki Takashi[1], Zhang Zutai[2]
[1]Showa University, [2]Beijing Institute of Dental Research, Capital Medical University, School of Stomatology,

P-14 Protective effect on demineralization of bovine enamel by S-PRG filler containing fissure sealant
OKaga Masayuki[1], Kakuda Shinichi[1], Ida Yusuke[2], Toshima Hirokazu[2], Hashimoto Masanori[2], Sano Hidehiko[1], Endo Kazuhiko[2]
[1]Hokkaido University, [2]Health Sciences University of Hokkaido

P-15 Flexural properties of glass fiber-reinforced plastic (GFRP) orthodontic wire
OInami Toshihiro, Tanimoto Yasuhiro, Yamaguchi Masaru, Nishiyama Norihiro, Kasai Kazutaka
Nihon University at Matsudo

P-16 Effect of amalgam fillings on gene expression profiles in rat blood
OTakahashi Yoshifumi, Tsuruta Shozo, Hasegawa Akihito, Aimu Kouki
Aichi Gakuin University

P-17 Effect of gutta-percha added with an inorganic antibacterial agent on Porphyromonas gingivalis
OKuroki Kenjiro, Takahashi Yoshifumi, Tomino Masafumi, Kiriyama Takashi, Goto Youichi, Hayashi Tatsuhide, Kawai Tatsushi
Aichi Gakuin University

P-18 Age-related changes of bone indentation properties in rats
OInoue Toshiko, Saito Makoto, Yamamoto Masato, Nishimura Fumio, Miyazaki Takashi
Showa University

P-19 Development of cyclic mechanical loading device for 3D scaffold.
OYamada Masakazu[1], Masuda Taisuke[2], Anada Takahisa[1], Honda Yositomo[1], Takano-Yamamoto Teruko[1], Suzuki Osamu[1]
[1]Tohoku University Graduate School of Dentistry, [2]Nagoya University

P-20 Literature research regarding toxicity of N, N'-dimethyl-p-toluidine
OHongo Toshio[1], Hikage Sakari[2], Wada Takahiro[1], Uo Motohiro[1]
[1]Tokyo Medical and Dental University, [2]Health Sciences University of Hokkaido

P-21 Metabolism of N, N'-dimethyl-p-toluidine by saliva, fetal bovine serum or S9
OHongo Toshio[1], Hikage Sakari[2], Takahashi Hidekazu[1], Iwasaki Naohiko[1], WadaTakahiro[1], Uo

Motohiro[1]

[1]Tokyo Medical and Dental University, [2]Health Sciences University of Hokkaido

P-22 Influence of titanium on cytotoxicity of metal ion elution from dental alloys

OMatsuura Ritaro[1], Mikagi Eriko[1], Anraku Teruo[1], Yamamoto Tetsuya[2]

[1]Yamamoto Precious Metal Co., Ltd. , [2]Kochi Medical School, Kochi University

P-23 Evaluation of a commercial tissue conditioners for application of immediate dentures

OMinato Teppei, Kurogi Tadafumi, Tanaka Rika, Nishimura Masahiro, Murata Hiroshi

Nagasaki University

P-24 Evaluation of cytotoxicity of hard denture reline resins by means of 3D collagen gel culture

OTakase Kazuma, Nishimura Masahiro, Kurogi Tadafumi, Murata Hiroshi

Nagasaki University

P-25 Effect of micro bubble ozone water on oral bacteria

OKawase Yuji [1], Yoshida Takamitu[2], Takeuchi Ken[1], Nagasawa Sakae[1]

[1]Matumoto Dental University, [2]Indiana University

P-26 Durability of bactericidal activity in new electrolyzed water prepared by electrolysis with low frequency vibration by long-term storage

ONagamatsu Yuki, Tajima Kiyoshi, Kakigawa Hiroshi, Kozono Yoshio

Kyushu Dental College

P-27 Interfacial observation of cast joined area between gold alloy implant and silver based alloy

ORyukata Ichirou, Hayashi Mikita, Kakumoto Yoshimi, Ishida Yoshinori, Okada Hidetoshi, Kawashima Isao

Ohu University

P-28 Joint strength of cobalt-chromium alloy welded by various welding methods

O Mori Hitomi, Shiraishi Takanobu, Watanabe Ikuya

Nagasaki University

P-29 Biocompatibility of cyclic pre-calcified nanotubular TiO_2 layer on Ti-6Al-7Nb alloy: corrosion behavior and cell proliferation

OThuy Duong Thi Nguyen[1], Hyeoung Ho Park[1, 2], Il Song Park[1], Min Ho Lee[1], Tae Sung Bae[1]

[1]Chonbuk National Univ., [2]BS. COREM Co.

P-30 Development of Au-Pd based alloy for biomedical application: magnetic susceptibility and mechanical properties of Au-Pd alloy

OInui Shihoko, Uyama Emi, Hamada Kenichi, Asaoka Kenzo

University of Tokushima

P-31 Effects of composition, working and heat treatment on magnetic susceptibility of Au-Pt alloy

OUyama Emi, Inui Shihoko, Hamada Kenichi, Kawano Fumiaki, Asaoka Kenzo

University of Tokushima

P-32 The evaluation of the surface roughness of the low-melting point's silver alloy which have been founded by self-designed trial centrifugal casting apparatus and under their mold's temperature varying

OYoshida Takaichi, Yoshida Koichi

Toho Dental College

P-33 Biomedical porous titanium alloys prepared by mechanical alloying and powder sintering

OHo Wen-Fu[1], Hsu Hsueh-Chuan[2], Tsai Ming-Shiun[1], Kikuchi Hisaji[3], Kurotani Tomoko[3], Wu Shih-Ching[2], Hsu Shih-Kuang[2]

[1]Da-Yeh University, [2] Central Taiwan University of Science and Technology, [3] Nihon University

P-34 Enhanced bioactivity of titanium mesh modified by anodic oxidation and cyclic precalcification treatments

OTae Sung Bae, J.W. Shin, Il Song Park, M.H. Lee

Chonbuk National University

October 14 (Sunday)

Hall A

9:30 - 11:00 General Presentation (Oral Session)

A-17 Influence of acetone on the surface quality of dual-cure type self-etching -Self-adhesive

resin luting cements with different cured mode–

OHan Linrin, Fukushima Masayoshi, Okiji Takashi

Niigata University

A–18 Evaluation of adhesives for face guard materials

OChurei Hiroshi, Abe Keisuke, Fukasawa Shintaro, Takahashi Hidekazu, Uo Motohiro, Ueno Toshiaki

Tokyo Medical and Dental University

A–19 Factors influencing on bond strengths of self–adhesive resin cements to tooth substrates

OHirabayashi Shigeru, Hayakawa Tohru

Tsurumi University

A–20 Modification effect of silane coupling agents contained poly(fluoro)alkyltrimethoxysilane (Part.14) ?Micro–structure of mixed silane coupling agents having fluorocarbon–

ONihei Tomotaro[1], Kunzelmann Karl–Heinz[2], Ohashi Katsura[1], Oshikawa Takahiro[1], Suzuki Toshiyuki[1], Yoshino Norio[3], Teranaka Toshio[1]

[1]Kanagawa Dental College, [2]Ludwig–Maximilians–University of Munich, [3]Tokyo University of Science

A–21 Effect of MDP concentration in one–step adhesive on demineralization aspect

ONishiyama Norihiro, Iwai Hitoshi, Fujita (Nakajima) Kou, Uchida ryoichiro, Tanimoto Yasuhiro, Takahashi Haruyoshi, Yaguchi Takehiro, Shibuya Isao, Ikemi Takuji

Nihon University School of Dentistry at Matsudo

A–22 withdraw

Hall A

13:00 – 15:45 General Presentation (Oral Session)

A–23 Accelerating the curing of resin composite at the cavity floor

OYoshikawa Takako[1], Cho Eitetsu[1], Tagami Junji[1, 2]

[1]Tokyo Medical and Dental University, [2]GCOE Program; IRCMSTBD

A–24 3D analysis of polymerization shrinkage with air bubble tracing μCT method

OTakemura Yukihiko, Hanaoka Koji, Kawamata Ryota, TeranakaToshio

Kanagawa Dental College

A–25 Effects of third–body media and composite resin type on wear resistance of composite resins

OKOOTTATHAPE Natthavoot[1], Takahashi Hidekazu[1], Finger J Werner[2], Kanehira Masafumi[2]

[1]Tokyo Medical and Dental University, [2]Tohoku University

A–26 Physical properties of a glass fiber reinforced composite resin system

OFukushima Shouichi, Sasaki Keiichi

Tohoku University

A–27 Effect of polymerization shrinkage of composite resin on a tooth

OTeraoka Fumio[1], Nakagawa Masafumi[1, 2], Miyajima Hiroyuki[1], Inaba Yoji[1], Imazato Satoshi[1]

[1]Osaka University, [2]Shinosaka College

A–28 Character of resin and fillers in composite resins having different flow properties

OWatanabe Kouichi, Okawa Seigo, Kanatani Mitsugu, Ito Kyosuke, Kaneko Hiromi, Yamaga Yoshiro

Niigata University

A–29 Vinylesters/polymer mixture system (Part 12) – The theoretical setting time of DVS–DVG/PEMA mixtures –

OTanaka Jiro [1], Irie Masao[1], Hashimoto Yoshiya[2], Takeda shoji[2], Matsumoto Takuya[1]

[1]Okayama University, [2]Osaka Dental University

A–30 Effect of different fluorinated monomers on characteristics of experimental soft lining materials: Viscoelasticity, water sorption and solubility

O Inoue Minoru [1], Hoshino Yoshihito[1], Nagasawa Yuko[2], Hibino Yasushi[2], Takahashi Hidekazu[1], Sumi Yasunori[3], Minakuchi Shunsuke[1], Nakajima Hiroshi[2]

[1]Tokyo Medical and Dental University, [2]Meikai University, [3] National Center for Geriatrics and Gerontology

A–31 Effect of different monomer components on bonding durability of experimental fluorinated soft lining materials to denture base resin

OHoshino Yoshihito[1], Inoue Minoru[1], Nagasawa Yuko[2], Hibino Yasushi[2], Takahashi Hidekazu[1], Sumi Yasunori[3], Minakuchi Syunsuke[1], Nakajima Hiroshi[2]

[1]Tokyo Medical and Dental University, [2]Meikai University, [3] National Center for Geriatrics and Gerontology

A-32 Evaluation of dynamic mechanical properties of acetal resin

OYoshida Kazuhiro, Kurogi Tadafumi, Tanaka Rika, Murata Hiroshi

Nagasaki University

October 14 (Sunday)
Hall B
9:30 - 11:00 General Presentation (Oral Session)

B-17 All-ceramic crown prepared by a new method -Improvement in coping fittness-

OMasuda Takayuki, Komasa Yutaka, Kakimoto Kazutoshi, Inoue Taro, Takahashi Kazuya

Osaka Dental University

B-18 HRTEM observation of an adhesive interface between zirconia and porcelain.

OBan Seiji[1], Tsuruki Jiro[2]

[1]Aichi Gakuin University, [2]Kagoshima University Graduate School of Medical and Dental Sciences

B-19 Bonding strength between zirconia and dental porcelain Part 7 Effect of bonding porcelain

OTsuruki Jiro[1], Noda Makoto[1], Okuda Yuji[1], Kono Hiroshi[1], Kanie Takahito[1], Arikawa Hiroyuki[1], Ban Seiji[2]

[1]Kagoshima University, [2] Aichi Gakuin University

B-20 Analysis of surface properties of dental zirconia

OTarumi Naoyoshi[1, 2], Watari Fumio[1]

[1]Hokkaido University, [2]Sapporo Dental Laboratory

B-21 Zirconia frame designe for Crown Restoration -a Static analysis-

OKuroda Soichi[1], Yokoyama Daiichiro[1], Sato F[1], Hase H[1,3], Shinya Akikazu[1, 2], Gomi Harunori[1], Shinya Akiyoshi[1]

[1]The Nippon Dental University, School of life Dentistry at Tokyo, [2] University of Turku

B-22 Effect of zirconia coping design on the strength of all-ceramic crown

OGoto Shin-ichi, Sugawara Yoshihiro, Maruyama Hiroshi, Ogura Hideo

The Nippon Dental University

Hall B
13:00 - 15:45 General Presentation (Oral Session)

B-23 Electrodeposition of type I collagen on titanium surface to improve its soft tissue compatibility.

OKyuragi Takeru, Migita Satoshi, Ono Takashi, Hanawa Takao

Tokyo Medical and Dental University

B-24 MALDI-TOF-MS and LC-MSMS analysis of bovine periosteal cell proteins

OAkiyama Mari, Takeda Shoji

Osaka Dental University

B-25 SEM observation of biological samples using room temperature ionic liquids

OAbe Shigeaki, Hyono Atsushi, Akasaka Tsukasa, Watari Fumio, Yonezawa Tetsu

Hokkaido University

B-26 Functionalization of Titania Nanotubes: Adsorption and Release of Calcium

ONishida Hisataka[1], Yamamoto Kazuyo[1], Sekino Tohru[2]

[1]Osaka Dental University, [2]TohokuUniversity

B-27 Application of electrical polarization on glass-ceramic block.

ONozaki Kosuke, Nagai Akiko, Miura Hiroyuki, Yamashita Kimihiro

Tokyo Medical and Dental University

B-28 Formation of the artificial enamel on dentin using the ultrathin apatite sheet

OHontsu Shigeki[1], Yoshikawa kazushi[2], Isai Arata[1], Yamamoto Ei[1], Kato Nobuhiro[1], Nishikawa Hiroaki[1], Kusunoki Masanobu[1], Hashimoto Yoshiya[2], Yamamoto Kazuyo[2]

[1]Kinki University, [2]Osaka Dental University

B-29 Effect of short-term immersion in calcium chloride solution on surface hardness of restorative glass ionomer cements

OShiozawa Maho, Takahashi Hidekazu, Uo Motohiro, Iwasaki Naohiko, Wada Takahiro

Tokyo Medical and Dental University

B-30 A study on in vitro cellular compatibitity of synthetic octacalcium phosphate
OMorimoto Shinji, Anada Takahisa, Honda Yoshitomo, Suzuki Osamu
Tohoku University
B-31 Effects of Particle size on the Hardening process and Sealing ability of OCP-mediated cement
OImamura Yuki, Horikawa Daiki, Nakamura Miho, Nagai Akiko, Yamashita Kimihiro
Tokyo Medical and Dental University
B-32 Preparation of α-TCP cement containing carbonate apatite
OMatsuya Shigeki[1], Maruta Michito[1], Tsuru Kanji[2], Ishikawa Kunio[2]
[1] Fukuoka Dental College, [2] Kyushu University
B-33 The effect of addition of γPGA on the setting reaction of α-TCP cement
OMaruta Michito[1], Matsuya Shigeki[1], Tsuru Kanji[2], Ishikawa Kunio[2]
[1]Fukuoka Dental College, [2] Kyushu University

October 14 (Sunday)
Hall C
9:30 - 15:00 General Presentation (Poster Session) (11:00 - 12:00 Discussion)

P-35 Modification of self-curing acrylic resin -Effect of LEB irradiation on polymer particles-
OIto Kyosuke[1], Okawa Seigo[1], Kanatani Mitsugu[1], Kaneko Hiromi[1], Yamaga Yoshio[1], Nomura Akiko[2], Nomura Shuichi[1], Watanabe Kouichi[2]
[1]Niigata University, [2]Meirin College
P-36 The effect of difunctional methacrylates on flexural properties of self-cured resin
OYamamoto Yoshie, Maruo Yukinori, Irie Masao, Nishigawa Goro, Tamada Yoshiyuki, MatsumotoTakuya, Minagi Shogo
Okayama University
P-37 Powderization of bamboo extracts and evaluation of antibacterial activity of dental materials incorporating the powdered bamboo extracts
OTanaka Daiki[1], Teraoka Fumio[1], Nakagawa Masafumi[1, 2], Imazato Satoshi[1]
[1]Osaka University, [2]Shinosaka College
P-38 Effect of rotation-revolution mixer for powder-liquid type denture lining material on mecanical properties
OYamaga Yoshio, Okawa Seigo, Kanatani Mitugu, Ito Kyosuke, Kaneko Hiromi, Nomura Shuichi, Watanabe Kouichi
Niigata University
P-39 The stress analysis of metal-supported restorations with hybrid composites using strain gauge
ONakagawa Masafumi [1, 2], Teraoka Fumio[2], Imazato Satoshi[2]
[1]Shinosaka College , [2]Osaka University
P-40 Effect on the application of light-cured glazing agents applied to denture base acrylic resins
OAoki Harumi, Miyasaka Taira, Aoyagi Yusuke, Ishida Yoshiki, Ando Nobuo
Nippon Dental University at Tokyo
P-41 Application of frost shattering technique in fiberglass reinforced thermoplastic for face guard material
OAbe Keisuke[1], Churei Hiroshi[1], Takahashi Hidekazu[2], Ueno Toshiaki[1]
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P-42 A new method for the measurement of polymerization shrinkage of self-cured resin
OMaruo Yukinori, Yamamoto Yoshie, Irie Masao, Nishigawa Goro, Tamada Yoshiyuki, Matsumoto Takuya, Minagi Shogo
Okayama University
P-43 Occlusal wear of dental synthetic resin for crown and bridge
OKakuta Kiyoshi, Ogura Hideo
The Nippon Dental University
P-44 Influence of the polymerization method for flexural strength of dual-cured composite resin cement
OIwasaki Naohiko, Takahashi Hidekazu, Asakawa Yuya, Shiozawa Maho
Tokyo Medical and Dental University
P-45 Improvement of bond strengths between fiber-reinforced composite posts and composite resin by ultraviolet light irradiation

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P-46 Effect of thermal stress on the color of layered resin composite

OAndo Susumu, Iino Masayoshi, Takimoto Masayuki, Tujimoto Akimasa, Tsubota Keishi, Kurokawa Hiroyasu, Miyazaki Masashi
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P-47 Effcet on the application of light-cured glazing agents for composite resin

OIshida Yoshiki, Miyasaka Taira, Aoki Harumi, Aoyagi Yusuke, Ando Nobuo
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P-48 The influence of size and shape of filler on the fatigue strength of dental resin composite

ONomura Kei[1], Yamanaka Keita[1], Nishikawa Izuru[1], Kato Takahiro[2], Anraku Teruo[2], Takahashi Hidekazu[3]
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P-49 Influence of filler particle size on optical transmittance and polishing property of composite resin

OKuroshima Hiroyuki[1], Sato Yuji[1, 2], Kato Takahiro[1, 2], Yamauchi Junichi[1], Yamada Bunichiro[1], Anraku Teruo[1]
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P-50 Influence of filler particle size on mechanical properties and durability of composite resin

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P-51 Effect of surface treatment of SUS444 alloy filler and 4-META content in base-resin on setting property of magnetic resin composite material

OSoma Hiroko, Miyagawa Yukio
The Nippon Dental University

P-52 The characteristics of the high elastmeric vinyl polysiloxane impression material: GC SOFTFLEX

OOhta Miyuki, Shinozaki Yutaka, Kamohara Hiroshi, Sakuma Tetsuro
GC Corporation

P-53 Development of a repairing liquid containing silane coupling agent for hybrid resins

OKimura Hiroaki, Kato Takahiro[1, 2], Saigo Kazuhiko[2], Yamada Bunichiro[1], Yamauchi Junichi[1], Anraku Teruo[1]
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P-54 Effect of self-adhesive resin cement, immersion temperature and surface treatment agent on bond strength to nanozirconia

OShinya Kyoko, Shinya Akihiro, Shinya Akiyoshi
The Nippon Dental University

P-55 Effect of an experimental hydrophilic primer in 4-META/MMA-TBB dentin bonding system

OSoeno Kohyoh, Taira Yohsuke, Sawase Takashi
Nagasaki University

P-56 Preservation stability of surface treatment with adhesion-promoting monomer to pure gold

OKadoma Yoshinori
Tokyo Medical and Dental University

P-57 Influence of environmental conditions on bond strength of single-step adhesives

OYokokawa Miho[1], Nojiri Kie[1], Takenaka Hirotaka[1], Shiratsuti Koji[1], Tsubota Keishi[1, 2], Rikuta Akitomo[1, 2], Masutani Shigeyuki[1], Miyazaki Masashi[1, 2]
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P-58 Effects of retention bead size and adhesive thickness on the bond strength of resin for crown and bridge

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P-59 Effects of surface treatments on phase transformation of dental zirconia

O Shih-Ching Wu[1], Huei-Jyuan Liao[1], Pai-Ling Chang[2], Chi Pan[2], Wen-Fu Ho[3], Hsueh-Chuan Hsu[1], Shih-Kuang Hsu[1], Pei-Chun Tsai[1]
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P-60 Connecting between zirconia coping and veneering ceramic-Comparison of grass-connecting agent with resin-bonding agent-

OYoshihara Kentaro, Sakakibara Ryo, Suzuki Takayoshi, Ban Seiji, Kawai Tatsushi, Nakamura Yoshinori, Tanaka Yoshinobu
Aichi-Gakuin University

P-61 Thickness dependence of color of base dentine porcelains for zirconia ceramics

OWatanabe Daichi, Tokuda Eri, Iwai Kaori, Shiraishi Takanobu, Watanabe Ikuya
Nagasaki University

P-62 Optical properties of effect porcelains for all-ceramic crown restorations

OShiraishi Takanobu, Ikeda Kahori, Watanabe Ikuya
Nagasaki University

P-63 Adsorption characteristics of phosphoric acid ester monomer for zirconia surface

OTamada Yoshiyuki, Nagaoka Noriyuki, Hayakawa Satoshi, Irie Masao, Nishigawa Goro, Maruo Yukinori, Yoshida Yasuhiro, Matsumoto Takuya, Osaka Akiyoshi, Minagi Shogo
Okayama University

P-64 Antibacterial effects of trial temporary cement with HY agent, Tannic acid, SrF_2 and ZnF_2

OAida Etsuko, Suzuki Hideaki, Tanimura Hideki, Aida Masahiro, Ikemi Takuji
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P-65 Application of α-TCP/Te-CP cement to pulp capping materials

OTakeda Shinpei, Kawano Satoshi, Kamiyama Chikako, Doi Yutaka, Yoshida Takakazu
Asahi University

P-66 Characterization of calcium phosphate deposited on magnesium and its alloys by applying polarity inversion electrolysis

OOkawa Seigo, Ito Kyosuke, Kaneko Hiromi, Yamaga Yoshiyo, Watanabe Kouichi, Kanatani Mitsugu
Niigata University

P-67 Effects of colloidal silisca concentration of porosity of the phosphate-bonded investment set and burn-out compacts

OBae Jiyoung, Asaoka Kenzo
University of Tokushima

P-68 Surface roughness and surface free energy of restorative dental materials

OOhashi Katsura, Nihei Tomotaro, Oshikawa Akihiro, Suzuki Toshiyuki, Teranaka Toshio
Kanagawa Dental College

P-69 Evaluation of Additive Manufacturing Co-Cr Alloy Crown

OShinya Akiyoshi[1], Shinya Akihiro[1], Kobayashi S.[1] Miyazaki Yoji[1], Niu Dongping[3], Zheng Gang[4]
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P-70 Trial for electrical welding of titanium and stainless steel alloy wires for orthodontics

ONakao Noriko, Matsunaga Junko, Watanabe Etsuko, Yoshida Noriaki, Watanabe Ikuya
Nagasaki University

P-71 Shear bond strengths of resin cements to the ceria stabilized zirconia/alumina nano-composite ceramics treated with several surface modifications

OSato Kotaro, Fujishima Akihiro, Hotta Yasuhiro, Miyazaki Takashi
Showa University

P-72 A new method to fabricate zirconia copings using Nd:YVO_4 laser -Determination of laser irradiation condition and machining accuracy-

OKazama Miku, Ohkuma Kazuo, Ogura Hideo
The Nippon dental University

P-73 Examination of zirconia frame design -Finite element analysis -

O Yokoyama Daiichiro[1], Shinya Akikazu[1,2], Kuroda Soichi[1], Hase Hideaki[1,3], Sato F.[1], Gomi Harunori[1], Shinya Akiyoshi[1]
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P-74 Model studies on bleaching with apatite photocatalyst

OKamemizu Hideo, Noda Yoko, Komada Yuko, Iijima Mayumi, Wakamatsu Nobukazu, Adachi Masanori, Hotta Masato, Doi Yutaka
Asahi University