

The 43th General Session of the Japanese Society for Dental Materials and Devices (JSDMD)

Tokyo Dental College

Saturday, 10 Apr 2004

9:25-9:30 Opening

9:30-9:45 Research Report

A questionnaire on safety of dental materials to clinician members of the society - Summary of the questionnaire -

Imai Yohji¹, Imai Koichi², Kakuta Kiyoshi³, Hirabayashi Sigeru⁴

¹Tokyo Medical and Dental Univ., ²Osaka Dental Univ., ³The Nippon Dental Univ., ⁴Tsurumi Univ.

9:45-10:30 Cell and Tissue I

A-01 Effects of Ni ions on cell viability and NO Production of murine peritoneal exudates cells (PEC) collected by lavage from thioglycolate injected mice

Taira Masayuki, Saitoh, Setsuo, Sasaki Kaori, Araki Yoshima

Iwate Medical Univ.

A-02 Radical scavenging activity of curcumin

Fujisawa Seiichiro¹, Atsumi Tomoko¹, Kadoma Yoshinori²

¹Meikai Univ., ²Tokyo Medical and Dental Univ.

A-03 Osteoinductive activity of BMP combined with cytokins derived from blood

Ito Takashi, Ito Masamitsu, Murakami Hiroshi, Suzuki Tomoo, Ishikawa Atsuko, Hayashi Tatsuhide, Kawai Tatsushi, Noguchi Toshihide

Aichi-gakuin Univ.

10:30-11:00 Titanium and Implant Material

A-04 Corrosion behavior of Ti and Ti alloys in Pseudo Intraoral environment

Matono Yoshinari, Nakagawa Masaharu, Udo Koichi, Matsuya Shigeki, Ishikawa Kunio, Terada Yoshihiro
Kyushu Univ.

A-05 Manufacture and evaluation of TiN/HAP functionally graded implant by dry synthetic method

Kondo Hideomi, Yokoyama Atsuro, Kawasaki Takao, Uo Motohiro, Ohkawa Shouji, Akasaka Tsukasa,
Sugawara Toshi, Watari Fumio
Hokkaido Univ.

10:00-15:00 General Presentation (Poster)

Award (No. P-01 -No. P-08)

P-01 Function of New Jaw-Tracking System Using a Home Digital Camcorder

Kinuta Soichiro, Yatani Hirofumi, Wakabayashi Kazumichi, Nakamura Takashi, Sohmura Taiji, Takahashi Junzo

Osaka Univ.

P-02 Effect of post designs with different tapers on root fracture

Okitsu Motoko, Takahashi Hidekazu, Iwasaki Naohiko, Yoshioka Takatomo, Ebihara Arata, Suda Hideaki
Tokyo Medical and Dental Univ.

P-03 Newly development of injectable dental ceramic system

Ushioda Masaaki, Sekino Masato
Tokuyama Dental Corp.

P-04 Casting ring liners¹⁵ -Cushioning effect of casting ring liners on the thermal expansion of the investment-

Takaoka Kenji¹, Hirose Hideharu¹, Takahashi Hiroaki², Usui Nobuyuki¹, Yagihara Kenji¹, Nishiyama Minoru¹
¹Nihon Univ., ²TOKYO GIKEN

P-05 Relation between released ions and alloy compositions in the Au-Ag-Pd-Cu alloy system
Miyake Masashi, Takada Yukyo, Kimura Kouhei, Okuno Osamu
Tohoku Univ.

P-06 Development of biocompatible cement for temporary cementation of implant superstructure
Yanagi Tomochika, Endo Kazuhiko, Ohno Hiroki, Kawashima Isao, Yamane Yuro
Helath Sciences Univ of Hokkaido

P-07 Development of titanium biosensor for surface plasmon resonance
Hirata Isao¹, Nomura Yuji¹, Wakasa Kunio¹, Okazaki Masayuki¹, Suzuki Kazuomi², Kuboki Takuo²
¹ Hiroshima Univ., ² Okayama Univ.

P-08 Effect of the released bisphophonate from HA-Bis composite on osteoclast
Seshima Hisashi, Takemoto Shinji, Hattori Masayuki, Kawada Eiji, Yoshinari Masao, Oda Yutaka
Tokyo Dental College

Cell, Tissue, and Biological Reaction

P-10 Development of HAP carrier with micro-porosities Part 2 A cell culture examination
Nemoto Kimiya¹, Koishi Yoshikazu¹, Maeda Takahide¹, Ogata Yorimasa¹, Ishizaki Tsutomu²
¹Nihon Univ. at Matsudo, ²Sangi

P-11 *In vivo* study of thin hydroxyapatite coating on titanium by use of a discharge method
Yamamoto Hiroki, Sibata Yo, Hosaka Mizuyo, Miyazaki Takashi
Showa Univ.

P-12 Imparting storage/release functions to cross-linked polymers -uptake and release of acriflavine and its analogues into collagen film and acetylcellulose film-
Cheng Yali, Nezu Takashi, Morikawa Tomohiro, Terada Yoshihiro
Kyushu Univ.

P-13 Denaturation and secondary structures of collagen in dentin adhesion
Nezu Takashi, Fukuda Kyosuke, Nagadome Hatsumi, Terada Yoshihiro
Kyushu Univ.

Composite Resin

P-14 Depth of cure and surface hardness of light-cured composite resins irradiated using filters that simulate dentin
Arikawa Hiroyuki, Kanie Takahito, Fujii Koichi, Ban Seiji
Kagoshima Univ.

P-15 Radiopaque characteristics of composite resin -Part3 Effect of strontium and zirconium
Aoyagi Yujin, Takahashi Hidekazu, Iwasaki Naohiko, Jin Jingyue, Babasono Kenichi
Tokyo Medical and Dental Univ.

P-16 A study on bond strength of dentin to new types of composite resin core material
Tsubota Yuji, Matsumoto Yukifumi, Nishimura Yasushi, One Takatoshi, Otsuka Masanori, Fukagawa Nao, Hashimoto Koh, Fukushima Shunnji
Tsurumi Univ.

P-17 Sliding wear at occlusal margin of indirect composite restoration
Otani Kazunori, Koizumi Hiroyasu, Saitoh Masahiro, Sasao Michiaki, Matsumura Hideo, Nishiyama Minoru
Nihon Univ.

P-18 Application of mega-filler to core build-up with composite resin
Hirabayashi Shigeru, Tsubota Yuji, Nishimura Yasushi, Ohne Takatoshi, Fukushima Syunji

Adhesive

P-19 Self-etching primer comprised of amide monomer

Nishiyama Norihiro¹, Nomura Mitsuru¹, Teshima Hideki¹, Nemoto Kimiya¹, Suzuki Kazuomi²
¹Nihon Univ. at Matsudo, ²Okayama Univ.

P-20 Dentin bonding performance of SuperBond Quick

Shimozono Akari, Arata Masami, Zeng Weiping
SUN MEDICAL CO., LTD.

P-21 Effect of water contained in dentin on the bonding interfaces of all-in one-adhesives

Yoshida Eiji, Uno Shigeru, Nodasaka Yoshinobu, Kaga Masayuki
Hokkaido Univ.

P-22 Bonding and antibacterial sensitivity of MMA/TBB resin containing amphiphilic lipids -Effect of L-alanine n-alkyl ester/p-toluensulfonic acid salts-

Kazuno Taichi¹, Fukushima Tadao¹, Inoue Yusuke², Hayakawa Tohru³, Kaminishi Hidenori³, Miyazaki Koji¹
¹Fukuoka Dental College, ²Fukuoka College of Health Science, ³Nihon Univ. at Matsudo

P-23 Modification effect of silane coupling agents containing poly(fluoro)alkyltrimethoxysilane (Part 13) - Coupling effect of silane coupling agents containing double bond -

Nihei Tomotaro¹, Kurata Shigeaki¹, Ohashi Katsura¹, Kondo Yukishige², Umemoto Kozo¹, Yoshino Norio², Teranaka Toshio¹
¹Kanagawa Dental College, ²Tokyo Univ. of Sci.

P-24 Bond strength of resin cement and temporary cementation to surface coated abutment tooth

Saitoh Masahiro¹, Kaneda Mitsumasa¹, Miyanaga Kouichi¹, Saigou Masataka¹, Narikawa Masashi¹, Nakabayashi Nobuo², Nishiyama Minoru¹
¹Nihon Univ., ²Tokyo Medical and Dental Univ.

P-25 Influence of oxidation treatment temperature and time on adhesion durability of light-cured facing resin to Titanium castings

Ishida Yoshinori, Hoshino Takumi, Okada Hidetoshi, Noguchi Hiroshi, Nagayama Katsuya
Ohu univ.

Denture Base Materials

P-26 Relationship between composition and dynamic viscoelasticity after gelation of tissue conditioners based on PEMA

Murata Hiroshi, Hong Guang, Hamada Taizo
Hiroshima Univ.

P-27 Influence of Silicone Remover on Bond Strength of Silicone Soft Denture Liners to a Denture Base Resin

Hong Guang, Murata Hiroshi, Hamada Taizo
Hiroshima Univ.

P-28 Elastic recovery and consistency of silicone resilient lining materials for denture during setting

Fujii Koichi, Arikawa Hiroyuki, Kanie Takahito, Ban Seiji
Kagoshima Univ.

Luting Materials

P-29 Effects of enamel surface curvature on orthodontic adhesive shear bond strength

Hioki Makiha¹, Nakahara Rizako¹, Nakasone Yuji²
¹The Nippon Dental Univ., ²Tokyo Univ. of Sci.

P-30 Application of an ultrasonic pulse technique on determination of hardening characteristics of luting

cements

Inage Hirohiko, Miyazaki Masashi, Kurokawa Hiroyasu, Ando Susumu
Nihon Univ.

P-31 Study on improvement of retention force with surface treatment of Au-Ag-Pd alloy

Terashima Nobuyoshi, Yoshida Takamitsu, Horasawa Noriko, Yokoyama Kouta, Niino Tooyu, Tumura Tooru, Nagasawa Sakae, Ito Michio
Matsumoto Dental Univ.

Ceramic and Post

P-32 Effect of test methods on flexural strength of dental ceramics

Jin Jigue, Takahashi Hidekazu, Iwasaki Naohiko, Aoyagi Yujin, Babasono Kenichi
Tokyo Medical and Dental Univ.

P-33 Prediction of ductile/brittle transition condition in grinding of dental porcelain

Wakamatsu Nobukazu, Kamemizu Hideo, Iijima Mayumi, Horiguchi Takashi, Adachi Masanori, Goto Takayasu, Doi Yutaka
Asahi Univ.

P-34 Flexural properties of commercial fiber post after accelerating aged test

Iwasaki Naohiko, Aoyagi Yujin, Jin Jingyue, Babasono Kenichi, Takahashi Hidekazu
Tokyo Medical and Dental Univ.

P-35 Effect of Cyclic Loading to Fiber Post

One Takatoshi, Tsubota Yuji, Nishimura Yasushi, Otsuka Masanori, Fukagawa Nao, Hashimoto Koh, Fukushima Shunji
Tsurumi Univ.

Dental Alloy and Cast

P-36 Relationship between heat treatment and mechanical properties for titanium

Shiratori Norihiko, Yoshida Takamitsu, Terashima Nobuyoshi, Nagasawa Sakae, Onizawa Toru, Mori Koji, Ono Hirohito, Kuroiwa Akihiro, Ito Michio
Matsumoto Dental Univ.

P-37 Deformation properties of Ti-6Al-7Nb alloy removable partial denture

Srimaneepong Viritpon¹, Yoneyama Takayuki^{1, 2}, Doi Hisashi, Kobayashi Equo, Wakabayashi Noriyuki¹, Hamanaka Hitoshi¹
¹Tokyo Medical and Dental Univ., ²Univ. of Tokyo

P-38 Tensile strength and porosity of experimental Ti-Zr-Sn dental alloys

Ogata Toshiaki, Tanaka Yasuhiro, Miura Eri, Shiraiishi Takanobu, Hisatsune Kunihiro
Nagasaki Univ.

P-39 Laser weld's joining of dental alloys (Part 2) Joining of Co-Cr alloy and type 4 gold alloy

Yoshida Takamitsu, Nagasawa Sakae, Terashima Nobuyoshi, Nakajima Mitsuharu, Yamakura Kazunori, Mizoguthi Toshihide, Yagasaki Hiroshi, Ito Michio
Matsumoto Dental Univ.

P-40 Fusing of the multi-purpose alloy on the gold metal frame by electroforming

Yamaguchi Yoko, Takahashi Hidekazu, Shiota Makoto, Iwasaki Naohiko
Tokyo Medical and Dental Univ.

P-41 Effects of heat treatments on the mechanical properties of 35Ag-30Pd-20Au-15Cu alloy containing Sn or In

Churnjitapirom Pornkiat, Goto, Shin-ichi, Nakai Akira, Miyagawa Yukio, Oguro Hideo
Sch. of Dentistry at Niigata, The Nippon Dental Univ.

P-42 Improve of super-elasticity dental gold alloys Part 2 some properties of 7 kinds of mother alloys added Ru, Hf, La, Sm and Gd

Yoshida Takaichi, Aoki Harumi, Okamura Hiroyuki

The Nippon Dental Univ.

P-43 A Study on the Fitness of Titanium Product Restoration Part 3-Fitness of MOD Inlay

Anzai Masaaki, Kuroiwa Akihiro, Uda Go, Minemura Takashi, Yamamoto Akio, Kasahara Etsuo, Igarashi Yasumasa, Ito Mitsuo
Matsumoto Dental Univ.

P-44 Casting of MOD inlay using the rings a hole on both sides using gold-silver-palladium alloy

Ohkuma Kazuo
The Nippon Dental Univ.

Research Report

A questionnaire on safety of dental materials to clinician members of the society - Detail of the questionnaire -

Imai Yohji¹, Imai Koichi², Kakuta Kiyoshi³, Hirabayashi Sigeru⁴
¹Tokyo Medical and Dental Univ., ²Osaka Dental Univ., ³The Nippon Dental Univ., ⁴Tsurumi Univ.

Computer Aided

P-45 Development of Electrical Standard Protocol System in Dentistry

Kawai Tatsushi, Kabutomori Masamichi, Takei Yukiko, Nakano Kenjiro, Ito Toshiki, Suzuki Tomoo, Takahashi Kenta, Andou Kimitoshi, Satou Yousuke, Kawai Toshiki, Uematsu Yasuaki, Nishi Takeshi, Narita Yousuke
Aichi-gakuin Univ.

P-46 The security system for information leakage prevention of personal computer

Arai Koichi
Meikai Univ.

P-47 Application of Rapid Prototyping to Dentistry (Part 2) - Support for orthodontics: Fabrication of Set up model-

Lowmunkong Rungnapa¹, Sohmura Taiji¹, Hojo Hirokazu², Takahashi Junzo¹
¹Osaka Univ., ²Osaka Dental Univ.

P-48 Accuracy of crowns fabricated by dental CAD/CAM Effect of different materials and rest diameter

Yara Atushi¹, Ogura Hideo¹, Kakuta Kiyoshi¹, Sakamoto Yuuki²
¹The Nippon Dental Univ., ²GC CORP.

14:15-16:00 General Presentation (Oral)

14:15-15:15 Computer Aided

A-06 Three-dimensional modeling of dental casts using B-spline function

Hirogaki Yasushi¹, Sohmura Taiji², Takahashi Junzo²
¹Communication Research Lab., ²Osaka Univ. Biomaterial

A-07 Pulse-Shaped Laser Welding of Dental Metals (Part2)

Togaya Toshihiro
Kyoto Univ.

A-08 An evaluation of new bone formation by three-dimensional X-ray Micro Focus CT - 3. Three dimensional finite element analysis -

Fukase Yasumasa, Takahashi Kensuke, Uehara Hiroyuki, Sasao Michiaki, Kaketani Masahiro, Matsumoto Mitsuhiko, Nishiyama Minoru
Nihon Univ.

A-09 Application of haptic device to dentistry (Part 5) Support for dental implantology: Attempt for clinical application

Sohmura Taiji, Kusumoto Naoki, Lowmunkong Rungnapa, Nishida Masahiko, Wakabayashi Kazumichi, Yamada Shinichi, Kojima Tetsuya, Nakamura Takashi, Yatani Hirofumi, Takahashi Junzo
Osaka Univ.

15:15-16:00 Material Testing

A-10 Measurement methods for fracture toughness value of dental ceramics by IF method

Fujishima Akihiro, Maehara Satoshi, Miyazaki Takashi
Showa Univ.

A-11 Dentine adhesive system: bonding area(theory)

Wakasa Kunio¹, Ikeda Atsuharu¹, Nomura Yuuji¹, Hirata Isao¹, Okazaki Masayuki¹, Shintani Hideaki¹, Sano Hidehiko²

¹Hiroshima Univ, ²Hokkaido Univ

A-12 Fatigue strength and the change in strain of super-elastic Ti-Ni alloy dental castings

Kasuga Jumpei¹, Yoneyama Takayuki², Doi Hisashi¹, Kobayashi Equo¹, Fukushima Osamu¹, Hamanaka Hitoshi¹

¹Tokyo Medical and Dental Univ., ²Univ. of Tokyo

16:15-18:15 Symposium

Sunday, 11 Apr 2004

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

9:00-9:45 Gypsum and Investment

A-13 Thermal behavior of gypsum-bonded investment mold in a furnace (I) Weight change and DTA

Mori Toshiko¹, Kim Kyo Han¹, Matsuya Shigeki², Ishikawa Kunio²

¹Kyungpook National Univ., ²Kyushu Univ.

A-14 Thermal behavior of gypsum-bonded investment mold in a furnace

Udoh Koh-ichi¹, Nakagawa Masaharu¹, Matsuya Shigeki¹, Ishikawa Kunio¹, Mori Toshiko², Kim Kyo Han²

¹Kyushu Univ., ²Kyungpook National Univ.

A-15 Transformation of gypsum into hydroxyapatite monolith in phosphate solutions

Suzuki Yumiko, Matsuya Shigeki, Udoh Koh-ichi, Nakagawa Masaharu, Koyano Kiyoshi, Ishikawa Kunio
Kyushu University

9:45-10:15 Surface Modification 1

A-16 Effect of heat treatments on bioactivity of surface-modified titanium with calcium

Kon Masayuki¹, Sultana Razia¹, Hanawa Takao², Miyamoto Youji³, Asaoka Kenzo¹

¹Tokushima Univ., ²Nat. Inst. Mater. Sci., ³Akita Univ.

A-17 Cytocompatibility of Hydroxyapatite Thin Film Deposited by Laser Abration

Hashimoto Yoshiya¹, Kawashima Masami², Hontsu Shigeki², Higuchi Yuichi¹, Komasa Yutaka¹, Nakamura Masaaki¹

¹Osaka Dental Univ., ²Kinki Univ.

10:15-11:00 Surface Modification 2

A-18 Hydroxyapatite Thin Film Formation on a Ti Substrate by Molecular Precursor Method Part 1 -Effect of Firing Temperature-

Takahashi Kenichi¹, Hayakawa Tohru¹, Hara Hiroki², Yoshinari Masao³, Sato Mitsunobu², Nemoto Kimiya¹

¹Nihon Univ. at Matsudo, ²Kougakuin Univ, ³Tokyo Dental College

A-19 Preperation of apatite coating onto Ti from solution

Honda Yutaka¹, Inuzuka Masahiro¹, Nakamura Satoshi¹, Nakamura Miho¹, Sekijima Yasutaka², Kobayashi Takayuki¹, Yamashita Kimihiro¹

¹Tokyo Medical and Dental Univ., ²Chiba Inst. Tech.

A-20 Cell and tissue compatibility of nickel-free stainless steel manufactured with nitrogen absorption process

Hanawa Takao^{1,3}, Yamamoto Akiko¹, Kuroda Daisuke¹, Yokoyama Atsuro², Kawasaki Takao², Kohgo Takao⁴

¹Nat. Inst. Mater. Sci., ²Hokkaido Univ, ³Univ. Tsukuba, ⁴Hokkaido Univ.

10:00-15:00 General Presentation (Poster)

Cell, Tissue, and Biological Reaction

P-49 Response of osteoblast-like cells on porous sintered titanium

Takeda Shoji¹, Oshima Hiroshi¹, Kakehi Shimpei¹, Kato Koji², Nakamura Masaaki¹

¹Osaka Dent Univ., ²Kogi

P-50 Effects of UV-O₃ irradiation on wettability and cell adhesion of titanium and titanium alloy

Kakehi Shimpei, Oshima Hiroshi, Takeda Shoji, Ueda Akihiro, Nakamura Masaaki

Osaka Dental Univ

P-51 Apatite coating on titanium mesh using hydrothermal-electrochemical method -Adsorption of protein-

Yuda Akihiko, Iwaya Yukari, Izumi Yuich, Ban Seiji

Kagoshima Univ.

P-52 Surface shape change and cell proliferation change of H₂O₂ treated Ti

Mizoguchi Toshihide, Yoshida Takamitsu, Nagasawa Sakae, Terashima Nobuyoshi, Yagasaki Hiroshi, Ito Michio

Matsumoto Dental Univ.

P-53 Protein immobilization on hydrophilic poly-lactic acid

Nagai Megumi¹, Hayakawa Tohru¹, Yoshinari Masao², Makimura Masaharu¹, Nemoto Kimiya¹

¹Nihon Univ. at Matsudo, ³Tokyo Dental College

P-54 Cell viability of photo fabrication resins

Imai Koichi, Ueda Akihiro, Nakamura Masaaki

Osaka Dental Univ.

Composite Resin

P-56 Enamel micro-cracks produced around composite restorations of less polymerization shrinkage composite resin

Han linlin, Ishizaki yuko, Okamoto akira, Fukushima masayoshi, kota kohichi, Okiji takashi

Niigata Univ

P-57 Degree of conversion of commercial indirect composite

Kawase Hiroyuki, Kawamoto Yoshikazu, Saitoh Masahiro, Nishiyama Minoru, Kakehashi Yoshiyuki, Mastumura Hideo

Nihon Univ.

P-58 Thermal properties of light-activated cavity liners -Evaluation from composition analysis-

Saitoh Masahiro, Hirose Hideharu, Wakashima Mitsuru, Masutani Shigeyuki, Kojima Taishi, Nishiyama Minoru

Nihon Univ.

Adhesive

P-59 Development of the adhesive system for modified sealed restoration effect of HEMA/solvent combinations on bond strength to demineralized dentin

Doi Junichi, Itota Toshiyuki, Nakabo Satoshi, Torii Yasuhiro, Yoshiyama Masahiro

Okayama Univ.

P-60 Tensile bond strength of newly-developed screw-installed orthodontic bracket

Narita Sachiyo, Komoriyama Manabu, Hanyuda Ai, Hirashita Ayao, Hirano Susumu
Tsurumi Univ.

P-61 Influence of bovine teeth obtained from different area on enamel and dentin bond strength

Sato Hikaru, Miyazaki Masashi, Sato Tomomi, Higaki Jun, Ando Susumu
Nihon Univ.

P-62 Water durability of resin bonds to dental metals treated with adhesion promoting monomers for precious metals

Kadoma Yoshinori
Tokyo Medical and Dental Univ.

Ceramic Materials

P-63 Preparation of carbonated apatite by treatment of calcite in various phosphate solutions

Lin Xin, Matsuya Shigeki, Udoh Koh-ichi, Nakagawa Masaharu, Ishikawa Kunio, Terada Yoshihiro
Kyushu University

P-64 Development of hard-tissue substitute of carbonate apatite by superplastic deformation - Biocompatibility-

Adachi Masanori, Wakamatu Nnbukazu, Goto Takayasu, Kamemizu Hideo, Iijima Mayumi, Horiguchi Takashi, Doi Yutaka
Asahi Univ.

P-65 Relation between the strength and solubility of zirconium-containing glass fibers with immersion in simulated body fluids

Kobayashi Masahiro¹, Kon Masayuki²
¹Chiba Inst. Tech., ²Tokushima Univ.

P-66 Fusion of calcium phosphate to enamel surface with a CO₂ laser -Phase change in CO₂ laser-irradiated powder compacts of MCPM and DCPD -

Goto Hirotsuke, Wakamatsu Nobukazu, Iizima Mayumi, Doi Yutaka, Tamura Yasuo
Asahi Univ

P-67 Recycling of dental gypsum-bonded investment

Zhang Zutai, Tamaki Yukimichi, Hotta Yasuhiro, Takashiba Shigeyuki, Okazaki Yuichiro, Miyazaki Takashi
Showa University

Impression Materials and Model Materials

P-68 Effect of storage of alginate impressions following spray with disinfectant solutions on the dimensional accuracy and deformation of stone models -Storage time-

Hiraguchi Hisako, Nakagawa Hisami, Kurotani Tomoko, Kitoh Kenji, Miyazaki Kiyomi, Nishiyama Minoru
Nihon Univ.

P-69 Effect of storage of alginate impressions following spray with disinfectant solutions on the surface roughness of stone models

Nakagawa Hisami, Hiraguchi Hisako, Hagino Norihito, Yoshihashi Kazue, Inoue Taro, Nakajima Yoshio,
Nishiyama Minoru
Nihon Univ.

P-70 Surface roughness and detail producibility of stone models obtained from aggar impressions immersed in phtharal disinfectant

Tanabe Naoki, Uchida Hirobum
Nihon Univ.

P-71 Disinfection of Stone Cast by Microwave. Part4.The influence of Dental Stone

Yamada Yasuhiro, Miyao Motonobu, Fujiwara Syu, Nagasawa Toru
Asahi Univ

Pulp Capping

P-72 Leachability of temporary restorative resin using non-phthalate ester plasticizers

Kawahara Toshiya, Nomura Yuji, Shibata Satoki, Tanaka Nobuyuki, Teshima Wataru, Fujitani Morioki, Okazaki Masayuki, Shintani Hideaki
Hiroshima Univ.

P-73 Leachability of phthalates from resinous temporary filling materials

Hongo Toshio¹, Hikage Sakari², Sato Atsushige³
¹Tokyo Medical and Dental Univ., ²Health Sciences Univ. of Hokkaido, ³Showa Univ

P-74 Trial production of expansive temporary sealing -material sealing-

Noguchi Hiroshi, Okada Hidetoshi, Ishida Yoshinori, Kakumoto Yoshimi, Oikawa Hitoshi, Nagayama Katsuya
Ohu univ.

Denture Base Materials

P-75 Shape memory alloy fiber reinforced resin matrix smart composite (Part 9) -shape recovery behavior with heating-

Hamada Kenichi, Kawano Fumiaki, Asaoka Kenzo
Tokushima Univ.

P-76 Light-curing type reinforcement used a glass cloth for denture base resin. -On the effect of oligomers for preimpregnation-

Kanie Takahito, Arikawa Hiroyuki, Fujii Koichi, Ban Seiji
Kagoshima Univ.

P-77 Influence of dispersibility of short fibers with zirconium-containing glass on strengthening of fiber-glass-reinforced denture base resin

Kon Masayuki¹, Kobayashi Masahiro², Kawano Fumiaki¹, Asaoka Kenzo¹
¹Tokushima Univ., ² Chiba Inst. Tech.

Alloy and Corrosion

P-78 Effects of Cr contents on galvanic corrosion of magnetic stainless steels in contact with the platinum-iron magnetic alloy

Nakamura Keisuke¹, Haoka Katsunori², Takada Yukyo¹, Kimura Kohei¹, Okuno Osamu¹
¹ Tohoku Univ., ² Haoka Dental Clinic

P-79 Quantity of ion released from Ti-Ni alloy with electrolytic treatments in relation to components of electrolytes

Fukushima Osamu¹, Yoneyama Takayuki^{1, 2}, Doi Hisashi¹, Kobayashi Equo¹, Hamanaka Hitoshi¹
¹Tokyo Medical and Dental Univ., ²Univ. of Tokyo

P-80 Corrosion fatigue properties of alpha + beta type Ti-5Al-13Ta alloy castings in 0.9% NaCl solution

Doi Hisashi¹, Yoneyama Takayuki^{1, 2}, Kobayashi Equo¹, Hamanaka Hitoshi¹
¹Tokyo Medical and Dental Univ., ²Univ. of Tokyo

P-81 The reduction behavior of hydrogen peroxide on titanium and titanium alloy in phosphate solution

Nasuda-Kouyama Akemi, Nomoto Shigemitsu, Kikuchi Hisaji, Nishiyama Minoru
Nihon Univ.

P-82 Hydrogen embrittlement properties of work-hardened Ni-Ti superelastic alloy in fluoride solutions

Yokoyama Ken'ichi, Kaneko Kazuyuki, Moriyama Keiji, Asaoka Kenzo
Tokushima Univ.

P-83 Corrosion resistance of Nb added Ti-Zr based alloys in a pseudo-physiological environment

Kobayashi Equo¹, Doi Hisashi¹, Yoneyama Takayuki^{1, 2}, Hamanaka Hitoshi¹
¹Tokyo Medical and Dental Univ., ²Univ. of Tokyo

P-84 Surface Modification of Dental Metal by Electro Beam System (Part 1) Change of Surface Roughness

Wakabayashi Kazumichi, Sohmura Taiji, Nakamura Takashi, Kojima Tetsuya, Hiarata Tetsuya, Kinuta Sohichiro, Takahashi Junzo, Yatani Hirofumi
Osaka Univ.

Computer Aided, Others

P-85 Machining of Crown and abutment by using an Optical profile machining with 5 Axis Control System.

An Hiroshi, Nishikawa Tatsuya
Osaka Electro-Communication Univ.

P-86 Automatic Fabrication of Prostheses Using a CAD/CAM System (Part22) Reproduction of Dentition Data by New Digitizing System

Hotta Yasuhiro, Ozawa Atsushi, Fujiwara Toshihisa, Miyazaki Takashi, Satou Masashi
Showa Univ.

P-87 Application of haptic device to dentistry (Part 6) - Support for surgical orthodontics: comparison of pre- and post operation -

Sohmura Taiji, Iida Seiji, Aikawa Tomonao, Kitagawa Taiji, Kogo Mikihiro, Takahashi Junzo
Osaka Univ

P-88 A Mechanical Study on Fixed Patial Denture with Composite Resin for Anterior

Yokoyama Daiichiro, Shinya Akikazu, Matsuda Tetuzi, Shinya Akiyoshi
Nippon Dental Univ.

P-89 The development of the water supply faucet mounting type ozone disinfection vessel

Arai Koichi
Meikai Univ.

Research Report

A questionnaire on safety of dental materials to clinician members of the society - Detail of the questionnaire -

Imai Yohji¹, Imai Koichi², Kakuta Kiyoshi³, Hirabayashi Sigeru⁴

¹Tokyo Medical and Dental Univ., ²Osaka Dental Univ., ³The Nippon Dental Univ., ⁴Tsurumi Univ.

13:00-17:00 General Presentation (Oral)

13:00-13:45 Cell and Tissue 2

A-21 Nano structure control of poly(L-lactide) by plasma treatment and interface reaction

Teraoka Fumio, Hara Masashi, Nakagawa Masafumi, Takahashi Junzo
Osaka Univ.

A-22 Evaluation of the resin-modified glass ionomer cement containing bioactive glasses by osteoblastic cell culture

Matsuya Shigeki¹, Ana Ika Dewi¹, Ishikawa Kunio¹, Yuasa Tetsuya², Miyamoto Youji³
¹Kyushu Univ, ²Tokushima Univ., ³Akita Univ.

A-23 Effect of Nano/Micro particles on living body

Tamura Kazuchika¹, Takashi Noriyuki¹, Iosif Rosca¹, Akasaka Tukasa¹, Atsumi Takashi², Satou Yoshinori²,
Watari Fumio¹, Totsuka Yasuniri
¹Hokkaido Univ., ²Tohoku Univ.

13:45-14:30 Adhesive

A-24 Diffusion of resin monomer to dentin and its effect on strength

Kamishima Naoko, Ohata Noboru, Uo Motohiro, Ohkawa Shouji, Akasaka Tsukasa, Sugawara Toshi, Watari Fumio
Hokkaido Univ.

A-25 The laboratory performance of a newly designed one bottle/one step resin bonding

Yamada Toshimoto¹, Sugizaki Jumpei¹, Morigami Makoto¹, Arita Akishi², Kojima Shinichi², Mashio Go²,
Akabane Shoji²

¹Toranomon Hospital Dental Clinic, ²GC CORPORATION R&D

A-26 Influence of hybridization effectiveness on long-term durability of total-etch adhesives bonded to dentin

Yoshida Yasuhiro, Suzuki Kazuomi
Okayama Univ.

14:30-15:00 Molding

A-27 Fabricated of sintered carbon nanotubes and their properties.

Wang Wei¹, Kondo Hideomi¹, Yokoyama Atsurou¹, Kawasaki Takao¹, Uo Motohiro¹, Ohkawa Syouji¹,
Akasaka Tsukasa¹, Sugawara Toshi¹, Ohmori Mamoru², Watari Fumio¹
¹Hokkaido Univ. ²Tohoku University

A-28 Preparation of β -TCP sheet using doctor blade method

Tanimoto Yasuhiro, Hayakawa Tohru, Nemoto Kimiya
Nihon Univ. at Matsudo

15:00-15:45 Resin

A-29 The study of the fluorescent glass filler for composite resin

Uo Motohiro, Akasaka Tsukasa, Rosca Iosif, Ohkawa Shoji, Sugawara Toshi, Watari Fumio, Tani Kazutoshi,
Morita Manabu
Hokkaido Univ.

A-30 Repairing of acrylic base resin and artificial tooth using adhesive resin. Effect of heating after priming to ceramic tooth on bonding strength.

Yamaga Taniichirou, Harashima Atsushi, Honda Muneaki, Yamazaki Atsushi, Kuramochi Ken-ichi,
Takahashi Yoko, Hibino Yasushi, Nakajima Hiroshi
Meikai Univ.

A-31 Improvement of Dental Resins in Properties (Part 9) - Photo- and thermo-polymerization behavior and mechanical properties of UDMA/MAA system -

Tanaka Jiro, Suzuki Kazuomi
Okayama Univ.

15:45-16:30 Casting Alloys

A-32 Friction and wear in the fretting and sliding dental alloys(part2)

Fukui Hisao¹, Tsuruta Syouzou¹, Kaikawa Kentarou¹, Touyama Masashi¹, Niinomi Mitsuo²
¹Aichi-gakuinUniv., ²Toyohashi Univ.

A-33 Effect of Au addition on the corrosion resistance of Ag-In casting alloy

Endo Kazuhiko, Nakajima Tomohito, Ohno Hiroki, Kawashima Isao, Yamane Urou
Health Sciences Univ. of Hokkaido

A-34 Effects of casting defect on fatigue strength of dental Ag-Pd-Cu-Au-Zn alloy

Mori Masaki¹, Niinomi Mitsuo¹, Mizumoto Toshio¹, Akahori Toshikazu¹, Fukui Hisao², Takeda Junji¹
¹Toyohashi Univ. of Technology, ²Aichi-Gakuin Univ.

16:30-17:00 Clinical Evaluation

A-35 Five-year clinical evaluation of resin composite restorations

Nikaido Toru, Takada Tsunehiko, Kitasako Yuichi, Ogata Miwako, Shimada Yasushi, Yoshikawa Takako,
Nakajima Masatoshi, Otsuki Masayuki, Tagami Junji
Tokyo Medical and Dental Univ.

A-36 The clinical survey of cervical lesions with the first appointment patients

Morigami Makoto, Sugizaki Jumpei, Kondo Masaya, Yamada Toshimoto
Toranomom Hospital Dental Clinic
