

ANNUAL PUBLICATIONS

Department of Comprehensive Oral Health Care General Dentistry

1993.1.-2000.3.

I. Staffs and Students (April, 1999)

Professor	N.Kurosaki
Associate Professor	K.Araki
Lecturer	C.Shimizu
Research Associate	K.Iida
	J.Matsunari
Hospital Staff	H.Oshio
	S.Mogami
	K.Tonami
	K.Usui
Clinical Training Staff	H.Kawano
	S.Kobayashi
	T.Mitobe
	Y.Nagano
	R.Natori
	D.Ohkusa
	A.Onuma
	N.Oyama
	K.Tanimoto
	J.Tei
	M.Fujiki
	A.Ito
	M.Kaneko
	K.Kobayashi
	T.Seguchi
	H.Sekiyama
	H.Shioda
	M.Suzuki
	E.Takahashi
	N.Terada
Secretary	R.Senpuku
Graduate Student	T.Nakazato
	K.Yamaguchi
	T.Nakashima
	K.Takimoto
	H.Yanagida
	K.Hashimoto
	Y.Maikuma
	D.Iijima
	S.Endo
Special Student	C.Mori
	T.Yoshida
	T.Ozaki
	T.Saigusa
	A.Suzuki
	T.Yamada
	Y.Kuwahara

II. Educational Outline of Graduate Course

Prevention of the occurrence or progress of oral disease, medical behavioral analysis of the patient who visits to dental clinic, and prediction of treatment planning based on comprehensive oral health care and its effect are educated to maintain and promote of oral health condition. Necessary for the efficient development of advanced dentistry, standard of general dentistry and primary care including prevention of oral disease is educated, and in addition, students are trained to be a family doctor.

In the education in faculty of dentistry, our curriculum is designed to provide students with allow them to master the knowledge and requisite skills associated with the practice of general dentistry.

The 5th Year (1st and 2nd term) : Total oral diagnosis didactics

A fundamental knowledge on the trend and the diagnosis of oral disease is acquired.

The 5th Year (3rd term) : Preclinical training

Necessary lecture and practical training for the smooth conversion to clinical training course, mainly of medical interview, examination of the mouth, comprehensive oral diagnosis and treatment-planning, are carried out.

The 6th Year : Clinical Practice

Patient assessment and patient education as a patient management and treatment-planning as the premise which starts individual treatment, are carried out.

III. Research Subjects

- 1) Study on improvement of clinical education and training of dentistry
- 2) Study on improvement of physical properties of restorative dental materials
- 3) Study on management of three dimensional data in oral diagnosis
- 4) Study on treatment of Sleep Apnea Syndrome by dental appliance
- 5) Study of infection control of dental unit and dental unit water line

IV. Publications (January, 1993-March, 2000)

A. Original Articles

- 1) Fujisawa, S. and Kadoma, Y : Effect of phenolic compounds on polymerization of methyl methacrylate. *Dental Materials*, 8 (9) : 324 - 326, 1993.
- 2) Fujisawa, S. Kadoma, Y : Further NMR - spectroscopic studies of interaction of phospholipid liposomes with methacryloxydecyl dihydrogen phosphate (MDP) in dental adhesives. *Dent. Mater. J.* , 12 (1) : 69 - 74, 1993.
- 3) Fujisawa, S., Komoda Y., Kadoma Y. : NMR spectroscopic study of the interaction of 4-MET monomer with phospholipid liposomes -Effect of pH -, *J J Dent Mater*, 12 (2) : 162 - 168, 1993. (in Japanese)
- 4) Fujisawa, S., Komoda Y., Kadoma Y. : DSC and NMR spectroscopic studies of the interaction of eugenol and its related compounds with phospholipid liposomes, *J J Dent Mater*, 12 (3) : 406 - 411, 1993. (in Japanese)
- 5) Ishida S., Kurosaki N. : Prevention on dental treatment. *Japanese Journal of Clinical Medicine*, 51 (659) : 522 - 524, special issue, 1993. (in Japanese)
- 6) Shimizu C., Yamamoto H., Tsumuraya T., Kurosaki N. : Performance of Endodontic Files Part.1 Dimensional accuracy, *Japan J. Conserv. Dent.*, 36 (5) : 1410 - 1417, 1993. (in Japanese)
- 7) Shimizu C., Yamamoto H., Tsumuraya T., Kurosaki N. : Performance of Endodontic Files Part.2 Toughness, *Japan J. Conserv. Dent.*, 36 (6) : 1750 - 1752, 1993. (in Japanese)
- 8) Fujisawa, S., Komoda Y., Kadoma Y. : NMR, DSC studies of the interaction of o-Ethoxybenzoic acid (EBA) and p-Vinyl benzoic acid (VBA) with phospholipid liposomes, *J J Dent Mater*, 13 (3) : 206 - 212, 1994. (in Japanese)
- 9) Igarashi I., Tasaka Y., Todoroki N., Yamamoto A., Fujisawa, S. Shimizu C., Kurosaki N. : Comparison with various types of dental gloves, *Japan J. Conserv. Dent.*, 37 (1) : 311 - 316, 1994. (in Japanese)
- 10) Ikeuchi H., Yamamoto H., Iida K., Todoroki N., Shimizu C., Kurosaki N. : Study on clinical availability of Titanium alloy. *Japan J. Conserv. Dent.*, 37 (1) : 164 - 167, 1994. (in Japanese)
- 11) Ikeuchi H., Kurosaki N. : Study of three-dimensional data management for standardized stone models. *Japan J. Conserv. Dent.*, 37 (6) : 1966 - 1971, 1994. (in Japanese)
- 12) Kawasaki G., Makaki S. and Mizuno A. : Ultrastructural and biochemical study on the effect of polychlorinated biphenyl on mouse parotid gland cells, *Archs. Oral Biol.*, 40 (1), 39-46, 1995

- 13) ○ Zhao H. : Fatigue properties of gallium alloy , J. Stomatol. Soc., Jpn , 62 (1) , 106 - 126 , 1995 . (in Japanese)
- 14) Kurosaki N. , Shimizu C. , Igarashi I. : Clinical Training of a Physically Handicapped Dental Student , J Jpn Asso Dent Education , 10 (2) , 179-182 , 1995 (in Japanese)
- 15) Iida K. , Shimizu C. , Yamada U. , Matakai S. , Kurosaki N. : Bacterial detection in root canal by biological emission , Jpn J Oral Diag/Oral Med , 8 (2) , 298 - 302 , 1995 (in Japanese)
- 16) Kobayashi Y. , Sakai H. , Kobayashi K. , Matakai S. and Kato Y. : Processing of osteocalcin by cysteine proteinases alters the intrinsic calcium binding capability, Dentistry Japan, 35 (1) , 35 - 37 , 1995
- 17) ○ Yamamoto M. and Takahashi H. : Tensile fatigue strength of light cure composite resins of posterior teeth, Dent . Mater . J . , 14 (2) , 175 - 184 , 1995
- 18) Matsuo M. , Kataoka Y. , Matakai S. , Kato Y. and Oi K. : Conflict situation Increases serotonin release in rat dorsal hippocampus : invivo study with microdialysis and vogel test , Neuroscience Letters , 215 , 197 - 200 , 1996 .
- 19) Ikeuchi H. , Usui K. , Matakai S. , Kurosaki N. : Study on measuring of the facial form using 3-D curved shape measurement apparatus , Japan J. Conserv. Dent. , 39 (1) , 163 - 167 , 1996 . (in Japanese)
- 20) ○ Konuma M. : Effects of smeared layer on luting strength of dental cements , J. Stomatol. Soc., Jpn , 63 (1) , 237-248 , 1996 (in Japanese)
- 21) Ikeuchi H. , Usui K. , Matakai S. , Kurosaki N. , Shimizu A. , Makino H. : Study on reconstruction of facial form , Japan J. Conserv. Dent. , 39 (2) , 542 - 546 , 1996 . (in Japanese)
- 22) Soekanto A. , Kasugai S. , Matakai S. , Ohya K. , and Ogura H. : Toxicity of camphorated parachlorophenol in dental pulp cell culture, J . Endodont . , 22 (6) , 284 - 286 , 1996
- 23) Shimizu A. , Makino H. , Ikeuchi H. , Usui K. , Matakai S. , Kurosaki N. and Yoshimura T. : 3-D machining by a robot manipulator , The second ECPD International Conference on Advanced Robotics , Intelligent Automation and Active systems. 390-395,1996
- 24) ○ Ikeuchi H. : A fundamental study on measurement of study cast , J. Stomatol. Soc., Jpn , 63 (4) , 620 - 628 , 1996
- 25) Hashimoto F. , Kobayashi Y. , Miyazaki Y. , Kamiya T. , Matakai S. , Kobayashi K. , Kato Y. , and Sakai H. : Antigenicity of pro - osteocalcin in hard tissue : the authenticity to visualize osteocalcin - producing cells . J Bone Miner Metab.,15 , 122 - 131 , 1997 .
- 26) Usui K. , Matakai S. , Ikeuchi H. , Kurosaki N. • Shimizu A. , Makino H. : Study on three-dimensional data management system for study cast . Part 2. A divisional measurement method with rotation, Japan J. Conserv. Dent. , 40 (1) , 294-297 , 1997 . (in Japanese)
- 27) Igarashi I , Matsunari J. , Iida K. , Ishida S. , Shimizu C. , Matakai S. , Kurosaki N. : Present status of the undergraduate clinical training at faculty of dentistry, Tokyo Medical and Dental University, J Jpn Asso Dent Education , 12 (2) , 194-195 , 1997 . (in Japanese)
- 28) Usui K. , Matakai S. , Ikeuchi H. , Shimizu A. , Makino H. , Kurosaki N. : Study on three-dimensional data management system for study cast . Part 3. Trial for reconstruction of the standardized stone model, Japan J. Conserv. Dent. , 40 (2) , 743 - 748 , 1997 . (in Japanese)
- 29) ○ Yamamoto A. : A fundamental study on assessment of gingival blood flow : J. Stomatol. Soc., Jpn , 64 (2) , 316 - 325 , 1997 .
- 30) Fujisawa, S. , Yamamoto H. , Yamamoto A. , Ikeuchi H. , Ishida S. , Igarashi I , Sazawa S. , Hayakawa Y. , Shimizu C. , Kurosaki N. : 4-year clinico-statistical observation of outpatients , J. Stomatol. Soc., Jpn , 64 (2) , 376 - 383 , 1994 (in Japanese)
- 31) Mogami S. , Murano M. , Shimizu C. , Kurosaki N. , Ishiwata M. : A survey on consciousness of students of school for dental technician , Japanese Journal of Dental Practice Administration , 32 (2) , 96-98 , 1997 (in Japanese)
- 32) Shouji S. , Iohara M. , Saeki K. , Iiyama M. , Ikawa M. , Endo H. , Horiuchi H. , Kota K. , Iwaku M. , Ishida s. , Igarashi I. , Hatada M. , Kurosaki N. , Fujitani M. , Urabe H. , Shintani H. : Clinical evaluation of removal of the soft dentin by a combined apparatus of the carbon dioxide lazer and the water-jet scaler , Japan J. Conserv. Dent. , 40 (s) , 1200 - 1212 , 1997 . (in Japanese)
- 33) Shimizu A. , Terada H. , Makino H. , Usui K. , Matakai S. , Kurosaki N. : Three-dimensional object machining by a robot manipulator (1st Report) Reconstruction examples of study model of teeth , Journal of Japan Society for Precision Engineering, 63 (12) , 1747 - 1752 , 1997 . (in Japanese)
- 34) Kurosaki N. , Matakai S. , Shimizu C. , Ishida S. , Igarashi I , Iida K. : The present status and perspective of post-graduate clinical training course at Tokyo medical and dental university dental Hospical, J Jpn Asso Dent Education , 13 (1) : 106 - 112 , 1997 (in Japanese)
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- 36) Miyazaki Y., Sakai H., Shibata Y., Shibata M., Matak S. and Kato Y. :Expression and localization of ferritin mRNA in ameloblasts of rat incisor, *Archs. Oral Biol.*, 43(5), 367-378,1998.
 - 37) Kobayashi Y., Takagi H., Sakai H., Hashimoto F., Matak S., Kobayashi K. and Kato Y. :Effects of local administration of osteocalcin on experimental tooth movement, *Angle Orthodontist*, 68(3),259-266, 1998.
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 - 39) ○ Usui K. : Study on reconstruction of study cast , *Japan J. Conserv. Dent.* , 41 (4) , 683-689 , 1998 . (in Japanese)
 - 40) Igarashi I , Hashimoto K. , Tonami K. , Shimizu C. , Matak S. , Kurosaki N. : Softening of carious dentin by Carisolv Gel , *Japan J. Conserv. Dent.* , 41 (4) , 704-707 , 1998 . (in Japanese)
 - 41) Shimizu C. , Matak S. , Kurosaki N. , Kawaguchi Y. , Terada K. , Shimura N.. : New curriculum of behavioral dentistry , *J. Stomatol. Soc., Jpn* , 65 (3) , 319-322 , 1998. (in Japanese)
 - 42) Matak S. , Kawaguchi Y. , Terada K. , Shimura N.. , Shimizu C. , Kurosaki N. : Medical interview with simulated patients at behavioral science in dentistry , *J. Stomatol. Soc., Jpn* , 65 (3) , 334-338 , 1998. (in Japanese)
 - 43) Tonami K. , Otani T. , Iwasaki N , Motomura K. , Nakamura H , Takahashi H. , Nishimura F. : Mechanical Properties of Titanium Casting Obtained Using Short-time Cast Procedure , *J. Stomatol. Soc., Jpn* , 65 (3) , 344-348 , 1998. (in Japanese)
 - 44) Shinada K. , Kondou K. , Endou K. , Ohara S. , Kawaguchi Y. , Kurosaki N. : The influence of dental education on health behaviors of the students , *J Jpn Asso Dent Education* , 14 (1) , 108-113 , 1998 .(in Japanese)
 - 45) Shimizu C. : Behavioral science in dentistry at the university of Texas health science center , *J Jpn Asso Dent Education* , 14 (1) , 118-121 , 1998 .(in Japanese)
 - 46) Endou K. , Kondou K. , Miura Y. , Kawaguchi Y. , Kurosaki N. : Student's research program in school of dental hygienists , *J Jpn Asso Dent Education* , 14 (2) , 241-247 , 1999 .
 - 47) Kashima I. , Taguchi A. , Noguchi T. , Hukuda M. , Inagaki K. , Sakai T. , Shinoda H. , Matak S. , Kurosaki N. : The study of osteoporosis in Dentistry - diagnosis and correlation to periodontal disease - , *Journal of the Japanese Association for Dental Science* , 18 , 53-63 , 1999 .(in Japanese)
 - 48) Shinada K. , Hashizume R. , Terada K. , Kurosaki N. : Effect of ultrasonic toothbrush on *Streptococcus mutans* - An *in vitro* Study - , *Japan J. Conserv. Dent.* , 42 (2) , 410-417 , 1999 .(in Japanese)
 - 49) ○ Sakai H.,Takano Y., Ohya K. and Kurosaki N. :Intermittent Inhibition of Dentin Mineralization of Rat Incisors Under Continual Infusion of 1-hydroxyethylidene-1, 1-bisphosphonate(HEBP) Using Subcutaneous Mini Osmotic Pump, *Archives of Histology and Cytology*, 62(2), 171-179, 1999.
 - 50) Hashimoto K. , Tonami K. , Shimizu C. , Kurosaki N. : The surface of cavity floor dentine by Carisolv™ , *Japan J. Conserv. Dent.* , 42 (3) , 619-622 , 1999 .(in Japanese)
 - 51) Igarashi I , Araki K. , Matak S. , Kurosaki N. : Clinical evaluation of DIAGNOdent , *Japan J. Conserv. Dent.* , 42 (4) , 783-785 , 1999 .(in Japanese)
 - 52) Murano M. , Kawaguchi Y. , Shinada K. , Araki K. , Matak S. , Kurosaki N. : Study on oral health status and health behavior of workers at government office , *J. Stomatol. Soc., Jpn* , 66 (3) , 283-291 , 1999. (in Japanese)
 - 53) Mogami S. , Nakazato T. , Tonami K. , Shimizu C. , Kurosaki N. , Takahashi H. , Nishimura F. : Shear bond strength of CAD/CAM composite resin block with resin cements , *Japan J. Conserv. Dent.* , 42 (5) , 1028-1033 , 1999 .(in Japanese)
 - 54) Tonami K. , Takagi T. , Araki K. , Matak S. , Kurosaki N. : Effect of Carisolv Gel on carious dentin collagen , *Japan J. Conserv. Dent.* , 42 (5) , 1040-1044 , 1999 .(in Japanese)
 - 55) Takahashi H. Nakano F., Tonami K., Nakazato T., Kurosaki N., Kitazaki H., Babazono K., Nishimura F.: Effect of test methods on flexural properties of dental restorative materials, *J J Dent Mater*, 18 (5), 395-400, 1999. (in Japanese)
 - 56) ○ Nakazato T., Takahashi H., Yamamoto M., Nishimura F. and Kurosaki N. : Effect of polishing on cyclic fatigue strength of CAD/ CAM ceramics, *Dent. Mater. J.*, 18(4), 395-402, 1999.
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 - 58) Araki K. , Usui K. , Maikuma Y. , Kurosaki N. : Bacterial contamination of dental unit waterline , *Japan J. Conserv. Dent.* , 43 (1) , 16-22 , 2000 .(in Japanese)
 - 59) Iida K. , Inokoshi S. , Kurosaki N. : Clinical evaluation of ceramic inlays made using Cerec 2 system , *Japan J. Conserv. Dent.* , 43 (1) , 215-220 , 2000 .(in Japanese)

B. Books

- 1) Kurosaki N. (joint work) : Oral medicine. Kobunsha, 1994,
- 2) Masuda T. , Kurosaki N. , Kuroda H. , Takamata T. , Totsuka M. (editor) : Total oral diagnoses , Tokyo , 1996 , Sunashobo [Kurosaki N. , Mataka S. , Shimizu C. (Sharing)] .
- 3) Onose H. , Kurosaki N. , Furuya H. , Kawasoe T. , Nokubi T. , Yokota M. (editor) : Manual of dental clinical- training , Tokyo , 1997 , Ishiyaku Pub. Inc. [Kurosaki N. , Mataka S. (sharing)]
- 4) Sato A. : Side effect and safety of dental materials , Tokyo , 1997 , Gakken Shoin [Kurosaki N. , Mataka S. (sharing)].
- 5) Ogura H. , Kato Y. , Sinoda H. : Modern dental pharmacology (3rd. Ed.) , Tokyo , 1998 , Ishiyaku Pub. Inc. [Mataka S. (sharing)].
- 6) Motegi K. , Tsubota K. , Miyachi Y. , Takigawa M. : Practice of dermatology medical care 2, Diagnosis of Mucosa Lesion , Tokyo , 1998 , Koubundo [Ono S. , Kurosaki N. , Ishida S. (sharing)].
- 7) Kurosaki N. , Kuroda T. , Nakagawa K. , Ichioka M. , Ono T. , Inoue M. , Hsegawa M. , Ikawa M. , Kmiyama J. , Baba K. , Ai M. : Dental approach to snoring and sleep apnea syndrome , Tokyo , 1999 , Sunashobo .
- 8) Matsumoto K. : The operative methods which want to know [Endodontics] , Tokyo , 1999 , Daiichi Shika Shuppan [Kurosaki N. , Araki K. , Tonami K. (sharing)].

C. Review Articles

- 1) Igarashi I : Dental Groves, J. Stomatol. Soc., Jpn, 161 (1) : 161, 1994. (in Japanese)
- 2) Kurosaki N. : Behavioral science curriculum guidelines of the United States , J Jpn Asso Dent Education , 11 (1) , 87 - 90 , 1995 . (in Japanese)
- 3) Iida K. , Shimizu C. , Mataka S. , Kurosaki N. : Bacterial test method in the root canal applied to bioluminescence , J. Stomatol. Soc., Jpn . , 62 (3) , 452 , 1995 . (in Japanese)
- 4) Kurosaki N. : The request of clinical training : from each practical training , J Jpn Asso Dent Education , 13 (1) , 62-68 , 1997 . (in Japanese)
- 5) Ikeuchi H. , Usui K. , Mataka S. , Kurosaki N. : Measurement and reconstruction of face form . J. Stomatol. Soc., Jpn . 64 (1) , 156 , 1997 . (in Japanese)
- 6) Takimoto K. , Mataka S. : Dental approach to sleep apnea syndrome , J. Stomatol. Soc., Jpn , 65 (2) , 282 , 1998 . (in Japanese)
- 7) Araki K. : Endodontic treatment using a stereo microscopy Part.1 , ZOOM-UP , 105 , 14-17 , 1999 . (in Japanese)
- 8) Araki K. : Endodontic treatment using a stereo microscopy Part.2 , ZOOM-UP , 106 , 12-15 , 1999 . (in Japanese)
- 9) Kurosaki N. : The request of guidance system of the clinical training course for post graduate students - For compulsory of the clinical training course - , Desirable learning strategy for residents - From the case of national university training facility - , J Jpn Asso Dent Education , 15 (1) , 34-37 , 1999 . (in Japanese)
- 10) Tonami K. , Araki K. , Kurosaki N. , Takagi T. : Selective softening of carious dentin by Carisolv Gel , J. Stomatol. Soc., Jpn , 66 (4) , 414 , 1999 . (in Japanese)

Case Report and Clinical Operative Method Report

- 1) Ishida S. , Yasutomi M. , Watanabe N., Fujisawa S. and Kurosaki N. : A case of emphysema caused by sodium hypochlorite, Jpn. J. Oral Diag/ Oral Med., 8(1), 213-218,1995.
- 2) Ishida S : A so-called denture fibroma suspected malignant tumor caused by a self-repaired denture can be made without surgery : Report of a case , Jpn J Oral Diag/Oral Med , 11 (1) , 103-106 , 1998.
- 3) Shimizu C. , Ono S. , Suzuki K , Katsura T , Kurosaki N. : A case of glossodynia promoting the development of self insight after a change of attending doctor , Japanese Society of Psychosomatic Internal Medicine , 2 (2) , 163-167 , 1998 .

Translation and Explanation

- 1) Endou K. , Kondou K. , Yoshida N. , Miura Y. , Kawaguchi Y. , Mataka S. , Kurosaki N. : The Curriculum of paper preparation in dental hygienist school, Shikaeiseishi , 22 (7) , 44-47 , 1998 .
- 2) Kurosaki N. : New system of caries treatment : Carisolv™ , Dental Diamond , 24 (1) , 36-39 , 1999.
- 3) Araki K. : Availability of calcium hydroxide as a root canal medicament , Dental Outlook Extra Issue, New Endodontics , 102-110 , 1999 .