

ANNUAL PUBLICATIONS

3rd Department of Conservative Dentistry (Dept. of Endodontics)

1993.1.-2000.3.

I. Staffs and Students (April, 1999)

Professor	Hideaki Suda
Associate Professor	Chihiro Kobayashi
Lecturer	Mitsuhiro Sunakawa
Research Associate	Takashi Okiji
	Hideharu Ikeda
	Nobuyuki Kawashima
	Norihiro Sawada
Hospital Staff	Reiko Wadachi
	Noriyuki Suzuki
	Akemi Hikiji
	Hiromi Nakano
Clinical Training Staff	Osamu Arai
	Miki Kosaka
	Kayoko Tasaki
Graduate Student	Lihua Kan
	Masahiko Ozawa
	Masamichi Goto
	Gosei Yoshikawa
	Tomoyasu Ishizuka
	Yuko Murashima
	Tomoo Anjo
	Kentaro Shindo
Special Student	Yudai Igarashi
	Yuko Shoji
	Kazuko Murakami
	Ichin Yu
	Atsushi Nakamura
	Izumi Wakayama
	Daisuke Ikeda
	Etsuko Nomura
Part-time Special Student	Keiji Murase
Part-time Hospital Student	Chieko Okiji
	Kasumi Murakoso
	Chinami Tajima
Secretary	Yuki Nakashima
Teaching Assistant	Masahiko Ozawa
JSPS Research Fellow	Takatomo Yoshioka
Inoue Sciense Research Fellow	Abu Mohammed Mostafa Kamal

II. Educational Outline of Graduate Course

The aim of the course is to train graduate dental students so that they can act as the leading clinical scientists, researchers, or practitioners on worldwide bases. Since recent progress of the basic pulp biology and development of the endodontic technique are remarkable, the students are educated to acquire proper knowledge on modern endodontontology and the related subjects, such as the pulp biology, neuroscience, bacteriology, immunology, material sciences etc., and to master the newest principles and technology of endodontics. All the students are requested to add new findings to the field of endodontics on their own original research works in the basic and/or clinical sciences. The graduates of this course are expected to popularize new principles and techniques on endodontics in order to renew dental practice, and they are further expected to have an ability of enlightening the general practitioners and the

other field specialists of dentistry with the new concepts of endodontics.

III. Research Subjects

1. Immunohistochemical Study on Pulpal and Periapical Diseases
2. Root Canal Preparation with Nickel-Titanium Files
3. Cytotoxic Evaluation of Root Canal Sealers and Dental Cements
4. Electrophysiological Study of Dentinal Pain
5. Application of Laser to Endodontics
6. Effect of Anaerobic Microorganisms in Root Canals using of Germ-free Animals
7. Quantitative Image Analysis in Dental Radiography
8. Dental Traumatology and Tooth Replantation
9. Evaluation of $\text{Ca}(\text{OH})_2$ used as Intracanal Medicament
10. Dental Materials for Root Canal Filling
11. Microscopic Endodontics & Microscopic Endodontic Surgery
12. Bone Regeneration in Osseous Defects after Endodontic Surgical Treatment
13. Characterization of Pulp Cells

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

A. Original Articles

- 1) Kosaka T.: Early pulpal and periapical tissue reactions after pulp exposure -an immunohistochemical study-. Japanese Journal of Conservative Dentistry 36: 92-108, 1993 (in Japanese).
- 2) Ishii T.: Subcellular localization of systemically distributed formaldehyde. Japanese Journal of Conservative Dentistry 36: 131-146, 1993 (in Japanese).
- 3) Kobayashi C., Suda H.: A basic study on the electronic root canal length measurement part 4. a comparison of 6 apex locators. Japanese Journal of Conservative Dentistry 36: 185-192, 1993 (in Japanese).
- 4) Kobayashi C., Yoshioka T., Suda H.: Enlargement of constricted canals. Japanese Journal of Conservative Dentistry 36: 193-199, 1993 (in Japanese).
- 5) Kobayashi C.: Current electronic root canal length measurement. Japanese Journal of Clinical Endodontics 14: 42-52, 1993 (in Japanese).
- 6) Ueno K., Yoshihashi M., Sawada N., Nakajima M., Araki K., Suda H.: Cytotoxicity of anaerobic bacteria isolated from infected root canal. Journal of the Stomatological Society Japan 60: 408-415, 1993 (in Japanese).
- 7) Kawashima N., Okiji T., Kosaka T., Suda T.: Effects of cyclophosphamide on the development of experimentally-induced periapical lesions in the rat. Japanese Journal of Conservative Dentistry 36: 1388-1396, 1993 (in Japanese).
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- 10) Araki K.,Barbosa S.V.,Spångberg L.S.W.,Suda H.: Reduced cytotoxicity of a root canal sealer through eugenol substitution. J. Endodon. 19: 554-557, 993.
- 11) Hattori M.,Shibata A.,Yoshioka K.,Sakaki Y.: Orphan peak analysis: a novel method for detection of point mutation using an automated fluorescence DNA sequencer. Genomics 15: 415-417, 1993.
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- 13) Barbosa S.V.,Araki K.,Spångberg L.S.W.: Cytotoxicity of some modified root canal sealers and their leachable components. Oral Surg Oral Med Oral Pathol. 75: 357-361, 1993.
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- 15) Okiji T.,Morita I.,Kawashima N.,Kosaka T.,Suda H.,Murota S.: Immunohistochemical detection of prostaglandin I_2 synthase in various calcified tissue-forming cells in rat. Archs Oral Biol. 38: 31-36, 1993.
- 16) Okiji T., Kawashima N., Kosaka T., Kobayashi C., Suda H.: Distribution of Ia antigen -expressing nonlymphoid cells in various stages of induced periapical lesions in rat molars. J.Endod. 20:27-31,1994.

- 17) Araki K., Suda H., Spångberg L.S.W.: Indirect longitudinal cytotoxicity of root canal sealers on L929 cells and human periodontal ligament fibroblasts. *J.Endodon.* 20:67-70, 1994.
- 18) Isaka H.: Systemic distribution of formaldehyde after application of formocresol into cat canine root canals - detection of non-metabolized formaldehyde -. *Japan.J.Conserv.Dent.* 37:168-183, 1994(in Japanese).
- 19) Ueno K.: Periapical tissue responses in monoinfected gnotobiotic rats. *Japan.J.Conserv.Dent.* 37:184-204, 1994(in Japanese).
- 20) Kobayashi C., Suda H.: New electronic canal measuring device based on the ratio method. *J.Endodon.* 20:111-114, 1994.
- 21) Wright J.K., Barbosa S.V., Araki K., Spångberg L.S.W.: *In vitro* antimicrobial and cytotoxic Effects of Kri 1 paste and zinc oxide-eugenol used in primary tooth pulpectomies. *Pediatric Dentistry* 16:102-106, 1994.
- 22) Tokita Y., Yamamoto H., Matsumoto H., Ikeda H., Izawa T., Sunakawa M., Suda H.: Intradental nerve activities induced by application of two kinds of dental temporary cements in the cat. *Japan.J.Conserv.Dent.* 37:1008-1016, 1994(in Japanese).
- 23) Ebihara A., Ueno K., Nishioka M., Sekine Y., Takeda A., Nakajima M., Suda H.: Effect of Nd:YAG laser on infected dentin. *Japan.J.Conserv.Dent.* 37:1029-1036, 1994(in Japanese).
- 24) Yamamoto H., Suda H.: Postgraduate educational programs of the university of Kuopio in Finland. *J.Jap.Assoc.Dent.Educ.* 10:45-48, 1994(in Japanese).
- 25) Sunakawa M.: Postgraduate educational system in the faculty of dentistry, university of Toronto. *J.Jap.Assoc.Dent.Educ.* 10:80-87, 1994(in Japanese).
- 26) Suda H., Sunakawa M., Ikeda H., Yamamoto H.: Neurophysiological evaluation of intraligamentary anesthesia. *Dentistry in Japan* 31:46-50, 1994.
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- 28) Kobayashi C., Yoshioka T., Aramaki S., Yokoyama N., Suda H., Matoba K.: A basic study on the electronic root canal length measurement part 5. development of an ultrasonic canal preparation system with electronic canal length measurement. *J.Jpn.Endodon.Assoc.* 15:129-136, 1994(in Japanese).
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- 34) Wadachi R., Suda H.: Ca(OH)₂ as root canal dressing agent. *J.Tokyo Dent.Assoc.* 43:71-76, 1995(in Japanese).
- 35) Tokita Y.: The effects of pulsed Nd:YAG laser irradiation on the dental pulp in the cat -a research into the intradental nerve activities, pulpal hemodynamics, and histopathological changes-. *Japan.J.Conserv.Dent.* 38:234-257, 1995(in Japanese).
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- 37) Yoshioka T., Ikeda H., Suda H.: The incidence of deep lingual pit and dens invaginatus occurring maxillary incisors and canines. *Japan.J.Conserv.Dent.* 38:453-458, 1995(in Japanese).
- 38) Sekine Y., Wadachi R., Ebihara A., Takeda A., Suda H.: Bacteriocidal effects of Nd:YAG laser irradiation in extracted bovine teeth. *J.Jap.Soc.Laser.Dent.* 6:31-39, 1995(in Japanese).
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- 40) Itoh R., Sawada N., Araki K., Suda H.: Cytotoxic evaluation of dental cements using insert chamber method. *Japan.J.Conserv.Dent.* 38:1048-1056, 1995(in Japanese).
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- 58) Yoshioka T., Kobayashi C., Suda H., Sasaki T.: Correction of background noise in direct digital dental radiography. *Dentomaxillofac. Radiol.* 25:256-262, 1996.
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B. Books

- 1) Kobayashi C.:Which is the best root canal locator.In:Dental Outlook Extra/Dental materials and drugs from infection control to prothodontics, Ishiyaku Publishers,Inc.,Tokyo,82-88,1993 (in Japanese).
- 2) Suda H.:How to remove root canal filling.In: Dental Outlook Extra/Dental materials and drugs from infection control to prothodontics, Ishiyaku Publishers,Inc.,Tokyo,110-113,1993 (in Japanese).
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- 12) Araki K.:Checkpoint of Access cavity preparation.In:Checkpoint of clinical dental treatment,Dental Diamond Co.,Tokyo,22-25,1994 (in Japanese).
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- 14) Araki K.:Checkpoint of root canal preparation.In:Checkpoint of clinical dental treatmen,Dental Diamond Co.,Tokyo,30-35,1994 (in Japanese).
- 15) Araki K.:Case Selection of root canal therapy, Dental surgery or extraction. In:Checkpoint of clinical dental treatment,Dental Diamond Co.,Tokyo,16-22,1994 (in Japanese).
- 16) Araki K.:Diagnosis of dental pain.In:Checkpoint of clinical dental treatment,Dental Diamond Co.,Tokyo,12-15,1994 (in

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- 17) Suda H., Sekine Y.: Effect of cavity preparation by Er:YAG laser to dental pulp. In:Dental Outlook Extra Issue / Clinical application on dental laser -Clinical basis-, Ishiyaku Publishers, Inc., Tokyo, 50-57,1994 (in Japanese).
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