

## ANNUAL PUBLICATIONS

## 2nd Department of Prosthodontics

1993.1.-2000.3.

## I. Staffs and Students (April, 1999)

|                     |                                        |                    |
|---------------------|----------------------------------------|--------------------|
| Professor           | Hiroyuki Miura                         |                    |
| Associate Professor | Akihiro Mayanagi                       |                    |
| Lecturer            | Ikumi Shiozawa                         | Minoru Kuriyama    |
| Research Associate  | Makoto Ogiso                           | Takahiro Sato      |
|                     | Keiichi Yoshida                        | Takahiro Masuda    |
|                     | Hideya Hamano                          | Katsumi Uoshima    |
| Secretary           | Yoshiko Uchida                         |                    |
| Clinical Staff      | Takehiro Otake                         | Daizo Okada        |
|                     | Takahiro Ohashi                        | Kenzo Makino       |
|                     | Mami Sato                              | Hiroyuki Akiba     |
|                     | Kaoru Endo                             | Tomohiro Koizumi   |
| Graduate Student    | Kenichi Kasahara                       | Yoshihiro Tanaka   |
|                     | Hirohumi Ishihara                      | Jun Tsuruta        |
|                     | Al Mutawa Nawal                        | Atsushi Kawawa     |
|                     | Bazar Amarsaikhan                      | Richard Foxton     |
|                     | Ariko Kohta                            | Kenji Nozawa       |
|                     | Toshiyuki Shinki                       | Aimjirakul Pantira |
|                     | Gavaa Enkhtuvshin (Special Researcher) |                    |
| Special Student     | Jun Ogonuki                            | Yuki Morikage      |
|                     | Yoshihiro Daidoji                      | Toshihiko Nakamura |
|                     | Takayoshi Yoshida                      | Shinichi Hara      |
|                     | Yuki Arai                              | Noriko Sugawara    |
|                     | Kiyotaka Tanizaki                      | Yasuhiro Sato      |
|                     | Norihiko Funayama                      | Shiho Otake        |
|                     | Ghada Hagag                            | Kaoru Oyama        |
|                     | Yoshimasa Sato                         | Keiko Sato         |
|                     | Atsushi Suzuki                         | Koichi Arima       |
|                     | Toshiyuki Iwasaki                      | Souich Kabe        |
|                     | Katsura Kaneta                         | Hidenori Kawashima |
|                     | Hidemichi Kihara                       | Noriyuki Seki      |
|                     | Koichiro Sekino                        | Chikara Mizuochi   |
|                     | Hatsumi Motoyama                       | Naho Yokota        |
| Resident            | Hiroataka Sugita                       | Manabu Saito       |
|                     | Jinkaku Sei                            | Shiei Kin          |
|                     | Kenij Kuroda                           | Miyuki Sasaki      |
|                     | Yuko Sato                              | Hideo Tateishi     |
|                     | Naruyoshi Doi                          | Hideki Hirohara    |
|                     | Kei Matsunaga                          | Satoshi Morikawa   |

## II. Educational Outline of Graduate Course

In prosthetic treatment, sufficient recovery of the shape and function of the treated tooth is very important. To maintain a good condition for a long time after the treatment, the prosthesis must be functionally harmonized with the stomatognathic system. The major subjects of the studies are occlusion of Crown and fixed partial denture. Clinical training and general lecture on prosthodontics are prepared for the graduate students in the first year. After the second year they will have special training for their research methods and experiments will be performed according to the research plan under the direction of the professor. In the last year the students will write the paper for thesis.

### III. Research Subjects

- 1) Occlusion: analysis of mandibular movement and theoretical study of adjustable articulators.
- 2) Occlusion and periodontal tissues: tooth displacement and distortion of alveolar bone during function, occlusal contact and tooth displacement.
- 3) Mastication: estimation of masticatory efficiency.
- 4) Behavior of the interdental proximal contact relation during function.
- 5) Dental metal allergy.
- 6) Accuracy of manufacturing processes of crown (i.e. casting, soldering, luting and adjustment of occlusion).
- 7) Functional analysis of stomatognathic systems (TMD patients).

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

#### A. Original Articles

- 1) Al Mutawa N, Sato T., Shiozawa I., Hasegawa S., Miura H.: A study of the bond strength and color of ultralow-fusing porcelain. *Int. J. Prosthodont.*, 13(2): 159-165, 2000.
- 2) Arai I., Ando H.: Dynamic Analysis of call cycles by the system dynamics Model. Part 2 Quantitative Assessment of Cell Cycles using transient Responses on Cytotoxic Analysis. *J. Jpn. Soc. Dent. Mat. And Devi.*, 17(2): 99 - 107, 1998. (in Japanese)
- 3) Cooper L.F., Masuda T., Whitson W., Yliheikkilä P.K., Felton D.A.: Effect of titanium surface structure on phenotypic expression of bovine mandibular osteoblastic cells. *Int. J Oral Maxillofac Implants*, 14(1): 37-47, 1999.
- 4) Furuki Y., Miura H., Hasegawa S., Masuda H.: Influence on the physiological tooth movement by splinting with bridge, *J. Jpn. Soc. Stomatognath. Funct.*, 1(1): 1-10, 1994. (in Japanese, English abstract)
- 5) Galen B.S., Hamano H., Lyndon F.C.: In Vivo Evaluation of hsp27 as an Inhibitor of Actin Polymerization: Hsp27 Limits Actin Stress Fiber and Focal Adhesion Formation After Heat Shock, *J. Cellular Physiology* 177: 575-584, 1998.
- 6) Ghada Hagag, Yoshida K. and Miura H.: Occlusion, prosthodontic treatment, and temporomandibular disorders: A Review, *J. Med Dent Sci.*, 47: 1-6, 2000.
- 7) Hamano H.: In Vivo Evaluation of hsp27 as an Inhibitor of Actin Polymerization: Hsp27 Limits Actin Stress Fiber and Focal Adhesion Formation After Heat Shock, *J. Cellular Physiology*, 177: 575-584, 1998.
- 8) Hamano H., Uoshima K., Miao W.-P., Masuda T., Matsumura M., Hani, H. Kitazaki H. and Inoue M.: Investigation of metal allergy to constituent elements of intraoral restoration materials. *J Stomatolog, Soc*65(1): 93-99, 1998. (in Japanese)
- 9) Hani H.: Corrosive changes of dental alloys in oral environment. -Scanning electron microscopic observation and electron probe microanalysis on crown surfaces-. *J. Stomatologic. Soc., Jpn.* 60(3): 372-97, 1993. (in Japanese)
- 10) Inoue M.: The Status of Quo of the Metal Allergy and the Measures Against it in Dentistry. *J. Jpn. Prosthodont. Soc.*, 37(6): 1127-1139, 1993. (in Japanese)
- 11) Kasahara K.: Observations of Interproximal Contact Relations during Function. *J. Stomatol. Soc. Jpn.* 66(4): 370-381, 1999. (in Japanese)
- 12) Kasuta S.: Experimental Investigation on Mouse Masseter by Means of Denervation. *J. Stomatolog. Soc.*, 62(2): 254-268, 1995. (in Japanese)
- 13) Kato H., Furuki Y., Hasegawa S.: Observations on the main occluding area in mastication. *J. Jpn. Stomatognath. Funct.*, 2: 119-127, 1996. (in Japanese)
- 14) Kato H., Hasegawa S., Yosida K. and Okada D.: Continuation: Observations on the main occluding area in mastication -the relation with food impaction-. *J. Jpn. Stomatognath.Funct.*, 5 ( 2 ): 125 — 133, 1999. (in Japanese)
- 15) Kono S., Kasuta S.: The Development of the Computer Expert System "TMDEX" for Diagnosing Temporomandibular Disorders and the Evaluation of the System in Clinical Treatment. *J. Jpn. Prosthodont. Soc.*, 37(3): 521-528, 1993. (in Japanese)
- 16) Kuo P.T.: Histological Study on OcclusalBearing Capability of Apatite Implant in Maxilla. *J. Stomatolog. Soc.*, 61(2): 221-236, 1994. (in Japanese)
- 17) Kuriyama M.: Comparison of Prosthodontic Curriculums in Kiel University with in Tokyo Medical and Dental University, *J JADE*, 10, 72-79, 1994. (in Japanese)
- 18) Kuriyama M., Hasegawa S., Otake T., Tanaka Y., Kasahara K.: Occlusal Contact on the Intercuspal Position of a Crown after Occlusal Adjustment. *J Jpn Soc Stomatognath Funct*, 4: 153-160, 1997. (in Japanese)
- 19) Kuriyama, M., Mayanagi, A., Hasegawa, S.: Application of Selspot System to Measurement of Mandibular Movements. *J. Jpn. Prosthodont. Soc.*, 39: 109-120, 1995. (in Japanese)
- 20) Masuda, T., Miura, H., Kato, H., Furuki, Y. and Hasegawa, S.: Distortion of periodontal tissue in maxillary molar region during biting - Measurement with quasi-three dimensional method -. *Dentistry in Japan* 34: 54-58 1998.

- 21) Masuda T., Miura H., Kato H., Furuki Y. and Hasegawa S.: Distortion of periodontal tissue in maxillary molar area during biting analyzed with quasi-three dimensional measurement. J Jpn Prosthet Soc, 40(1): 154-159, 1996. (in Japanese)
- 22) Masuda T., Miura H., Kato H., Furuki Y. and Hasegawa S.: Distortion of Periodontal Tissue in Maxillary Molar Region during Biting -Measurement with Quasi Three-Dimensional Method-, Dentistry in Japan 34: 54-58, 1998.
- 23) Masuda T., Salvi G.E., Offenbacher S. Felton D.A. and Cooper L.F.: Cells and matrix reactions at titanium implants in surgically prepared rat tibia. Int J Oral Maxillofac Implants, 12(4): 472-485, 1997.
- 24) Masuda T., Uoshima K., Hamano H., Cooper L.F. and Felton D.A.: Education system for DDS course students at school of dentistry, university of North Carolina at Chapel Hill. J Jpn Assoc Dent Edu 13(2) 185-189. 1998. (in Japanese)
- 25) Masuda T., Yoshida K., Kasuta S., Tuchida Y., Kohno S., Tabata T., Kumakura T. and Enguchi H.: Prosthetic treatment for psychiatric patients. J Jpn Prosthet Soc, 38(4): 701-5, 1994. (in Japanese)
- 26) Matsuda M., Nagai S., Orikasa H., Tada K., Tatsumi H., Fujiwara M., Furukawa Y., Ishibashi K., Inoue M.: Clorimetric Analysis of the skin Reaction by Patch Test. J. Jpn. Prosthodont. Soc., 38(3): 588-595, 1994. (in Japanese)
- 27) Mayanagi A., Kuriyama M., Hasegawa S., Arai I.: Influence of the Elements of Mandibular Movement on Tooth Path Part 6. Condylar Inclination of Nonworking-side Condyle Path. J Jpn Prosthodont Soc, 38: 120-127, 1994. (in Japanese)
- 28) Mayanagi A., Kuriyama M., Arai I., Hasegawa S.: Influence of the Elements of Mandibular Movement on Tooth Path Part 7. Angle of lateral condylar path of nonworking side. J Jpn Prosthodont Soc, 42: 993-999, 1998. (in Japanese)
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- 30) Miura H., Furuki Y., Hasegawa S., Kato H.: Distortion of Periodontal Tissues during Biting -Region of the Upper Posterior Teeth-. J Jpn Prosthodont Soc, 37: 1305-1311, 1993. (in Japanese, English abstract)
- 31) Miura H., Hasegawa S., Kato H., Furuki Y. and Masuda T.: A measuring method of the three dimensional tooth displacement. J Jpn Stomatognathofunct, 2(1): 1-10, 1995. (in Japanese)
- 32) Miura H., Hasegawa S., Okada D. and Ishihara H. : The measurement of the physiological tooth displacement in function. J Med Dent Sci, 45: 103-115, 1998.
- 33) Morikawa A.: Investigation of occlusal force on lower first molar in function. J. Stomatologic. Soc., Jpn., 61(2): 250-74, 1994. (in Japanese)
- 34) Nakazawa N., Fujita Y., Hasegawa S., Soma K.: Displacement of the maxillary first molar in malocclusion during clenching. Orthod. Waves, 57: 195-198, 1998.
- 35) Ogiso M.: Bone formation on HA implants: A commentary. J. Long-Term Effects Med. Implants, 8: 193-200, 1998.
- 36) Ogiso M., Reassessment of long-term use of dense HA as a dental implant: A case report. J. Biomed. Mater. Res., 43: 318-320, 1998.
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- 38) Ogiso M. and Tabata T.: Clinical evaluation of two -piece apatite dental implants in 189 cases, J. Long-Term Effects Med. Implants, 3: 57-68, 1993.
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- 40) Ogiso M., Tabata T., Lee R. R., and Borgese D. A.: Delay method of implantation enhances implant-bone binding : A comparison with the conventional method. Int. J. Oral Maxillofac. Implants, 10: 415-420, 1995.
- 41) Ogiso M., Tabata T., Lee R. R., et Borgese D. A.: Techniques d'implantation en vue d'ameliorer la liaison os-implant. Implant, 2: 117-123, 1996.
- 42) Ogiso M., Tabata T., Nakabayashi N., and Yamashita Y.: Tissue response of apatite-filled resin cement and titanium-reinforced apatite dental implants in dogs. J. Long-Term Effects Med. Implants, 3: 69-79, 1993.
- 43) Ogiso M., Yamamura M., Kuo P. T., Tabata T., Nakabayashi N., et al.: Development of a new cementing system that improves the physical properties of dense apatite implant. The full manuscripts of the 11th European Conference on Biomaterials, Pisa, Italy, 442-445, 1994.
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- 47) Ogiso M., Yamashita Y., and Matsumoto T.: The process of physical weakening and dissolution of the HA-coated implant in bone and soft tissue. *J. Dent. Res.*, 77: 1426-1434, 1998.
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- 49) Ogiso M., Yamashita Y., Tabata T., and Lee R. R.: The delay method : A new surgical technique for enhancing the bone-binding capability of HAP implants to bone surrounding implant cavity preparations. *J. Biomed. Mater. Res.*, 28: 805-812, 1994.
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- 51) Okada D.: Teeth Displacements and Occlusal Contacts depending on Clenching Force — Intercuspal position —. *J. Stomatol. Soc., Jpn.*, 66( 3 ): 293, 1999. (in Japanese)
- 52) Okada D., Miura H., Hasegawa S.: The Investigation of Upper and Lower Posterior Teeth in Function -The Three Dimensional Tooth Displacement-. *J Jpn Prosthodont Soc*, 42: 279-286, 1998. (in Japanese, English abstract)
- 53) Orikasa H., Matsuda M., Nagai S., Furukawa Y., Shiroyama T., Ishibashi K., Inoue M.: Discriminate Analysis of Colorimetric Characteristics in Skin Reaction Caused by a Patch Test. *J. Jpn. Prosthodont. Soc.*, 40(3): 508 — 511, 1996. (in Japanese)
- 54) Otake T.: Reconstruction of Tooth Guidance under the Stomatognathic Function. *J. Jpn. Prosthodont. Soc.*, 42( 2 ): 1024 — 1036, 1998. (in Japanese)
- 55) Uoshima K. and Cooper L.F.: Rat hsp27 expression pattern indicates the complexregulation of hsp27 gene expression. *Jpn J. Oral Biol.*, 38(1): 145-148, 1996.
- 56) Uoshima K., Masuda T., Hamano H., Cooper L.F. and Felton D.A: Research activity of dental students in the university of North Carolina at Chapel Hill -comparison with the students in Tokyo Medical and Dental University-, *J Jpn Assoc Dent Edu*, 13(2): 191-198, 1998. (in Japanese)
- 57) Sato T., Kawawa A., Okada D. Ohno S., Akiba H., Watanabe Y., Endo K., Mayanagi A., Miura H. and Hasegawa S.: Statistical Analysis of Fabrication of Indirect Single Restorations, *J. Jpn. Soc. Stomatognath. Funct*, 66(3): 270-276, 1999 (in Japanese, English abstract)
- 58) Sato T., Ohno S., Okada D., Kawawa A., Akiba H., Watanabe Y., Endo K., Mayanagi A., Miura H. and Hasegawa S.: Statistical Analysis of Fabrication of Fixed and Removable Partial Dentures, *J. Jpn. Soc. Stomatognath. Funct*, 66(3): 277-282, 1999. (in Japanese, English abstract)
- 59) Sato T., Miles T. S. and Turker K. S.: Reflex responses of masseter muscles evoked from the specific stimulation to periodontal mechanoreceptors. *J. Jpn. Soc. Stomatognath. Funct.*, 11: 3-10, 1993. (in Japanese)
- 60) Sato T., Miura H., Hasegawa S.: Clinical Evaluation of the All-Porcelain Laval Margin for Collarless Metal Ceramic Restoration. *J Jpn Prosthodont Soc*, 40: 141-146, 1996. (in Japanese, English abstract)
- 61) Sato T., Nawal Al Mutawa, Okada D., and Hasegawa S.: A clinical study on abutment taper and height of full cast crown preparations. *J. Med Dent. Sci.*, 45( 3 ): 205 — 210, 1998.
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- 63) Sato Y.: Influence of posture on the Sternocleidomastoid Muscle Activity in Occlusal Function. *J. Stomatolog. Soc.*, 62(1): 29-47, 1995. (in Japanese)
- 64) Sato Y., Kohno S., Yoshida K. and Tuchida Y.: Co-activation of Sternocleidomastoid muscle during occlusal functions. *Proceeding of Jpn. Soc. Stomatognath. Funct.*, 11: 79-86, 1993. (in Japanese)
- 65) Shiozawa I., Arai Y. and Sato T.: The Fit of Crowns Fabricated with Quick-Heating Gypsum-Bonded Investment-The Influence of the Timing of When to Commence Heating-. *J Jpn Prosthodont Soc*. 43: 201-206, 1999. (in Japanese)
- 66) Shiozawa I., Sato T., Daidohji Y., Funayama N., Gorohmaru T., Ogonuki A., Okada D., Kuriyama M., and Hasegawa S.: A Clinical Investigation on the Fit of Full Cast Crowns Made by Various Impression Materials and Investment Techniues. *J Jpn Prosthodont Soc*. 43: 80-89, 1999. (in Japanese)
- 67) Shiozawa I., Sato T., Kuriyama M., Otake T., Hamano H., Ogura N., Hasegawa S., Tonami K., Takahashi H. and Nishimura F.: A Study on Bonding Characteristics of Low Fusing Porcelain to Different Dental Alloys -Bonding Strengths Measured by Three-Point Bending Test-. *J Jpn Prosthodont Soc*. 42: 867-874, 1998. (in Japanese)
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- 69) Suzuki N.: Studies on Metal Allergy in the Field of Dentistry. -Treatment with Application of X-ray Fluorescence Spectroscope Analysis in Detection of Allergen Metals-. *J. Stomatolog. Soc.*, 61(1): 144-158, 1994. (in Japanese)

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- 72) Tanaka Y.: Evaluation of Masticatory Comminute Function Using Multiple Variables. -Part II: Analysis of Masticatory Efficiency from EMG Duration-. *J. Stomatolog. Soc.* 67(1): 70-80, 2000. (in Japanese)
- 73) Yliheikkilä P.K., Masuda T., Ambrose W.W., Suggs C.A., Felton D.A. and Cooper L.F.: Preliminary comparison of mineralizing multilayer cultures formed by primary fetal bovine mandibular osteoblasts grown on titanium, hydroxyapatite and glass substrates. *Int J Oral Maxillofac Implants*, 11(4): 456-465, 1996.
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- 77) Yamashita J., Shiozawa I. and Takakuda K.: Surface Strain on Crown and Luting Cement Fractures. *Int J Prosthodont.* 10: 332-339, 1997.
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- 79) Yamashita J., Shiozawa I., Takakuda K. and Miyairi H.: Deformation of restoration and fracture of luting cement film. *J.Dent.* 26: 459-466, 1998.
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## B. Books

- 1) Hamano H. (Chapter author) In: *Color Atlas: Prognosis of Prosthodontic Treatment [II] Crown and Bridge*, 1<sup>st</sup> ed., Inoue M., Nakazawa H. eds., Ishiyaku Publishers. Inc. 1993. (in Japanese)
- 2) Inoue M. (Chapter author) In: *Color Atlas: Prognosis of Prosthodontic Treatment [III] Crown and Bridge*, 1<sup>st</sup> ed., Inoue M., Nakazawa H. eds., Ishiyaku Publishers. Inc. 1993. (in Japanese)
- 3) Sato T. (Chapter author) In: *Color Atlas: Prognosis of Prosthodontic Treatment [II] Crown and Bridge*, 1<sup>st</sup> ed., Inoue M., Nakazawa H. eds., Ishiyaku Publishers. Inc. 1993. (in Japanese)
- 4) Shiozawa I. (Chapter author) In: *Color Atlas: Prognosis of Prosthodontic Treatment [II] Crown and Bridge*, 1<sup>st</sup> ed., Inoue M., Nakazawa H. eds., Ishiyaku Publishers. Inc. 1993. (in Japanese)
- 5) Hani H. (Chapter author) In: *Metal Allergy*. Inoue M., Nakazawa H. eds., Dental Diamond, Tokyo, 1993. (in Japanese)
- 6) Hamano H. (Chapter author) In: *Metal Allergy*. Inoue M., Nakazawa H. eds., Dental Diamond, Tokyo, 1993. (in Japanese)
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- 11) Masuda T. (Chapter author) In: *Encyclopedia of clinical occlusion*. Hasegawa S. and Bando E. eds., Ishiyaku Pub. Tokyo, 1997. (in Japanese)
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- 13) Miura H. (Chapter author) In: *Encyclopedia of clinical occlusion*. Hasegawa S. and Bando E. eds., Ishiyaku Pub. Tokyo, 1997. (in Japanese)
- 14) Sato T. (Chapter author) In: *Encyclopedia of clinical occlusion*. Hasegawa S. and Bando E. eds., Ishiyaku Pub. Tokyo, 1997. (in Japanese)
- 15) Shiozawa I. (Chapter author) In: *Encyclopedia of clinical occlusion*. Hasegawa S. and Bando E. eds., Ishiyaku Pub. Tokyo, 1997. (in Japanese)

- 16) Yoshida K. (Chapter author) In: Encyclopedia of clinical occlusion. Hasegawa S. and Bando E. eds., Ishiyaku Pub. Tokyo, 1997. (in Japanese)
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- 18) Hamano H.: Safety of Metal s From the Point of view of Metal Allergy, 329-407, Basics and Application of Metallic Biomaterial IPC, Tokyo, 2000. (in Japanese)
- 19) Ogiso M.: Implant. In: Oral Surgery, Sasaki M. eds., Oral Health Association of Japan, Tokyo, 648-653, 1995. (in Japanese)
- 20) Sato T.: The Quintessence YEAR BOOK '93 In: Easy reference. IJP, 4(5)-5(4), Quintessence, Tokyo, 1993. (in Japanese)
- 21) Sato T.: The Quintessence YEAR BOOK '94 In :Easy reference. IJP, 5(5)-6(4), Quintessence, Tokyo, 1994. (in Japanese)
- 22) Sato T.: The Quintessence YEAR BOOK '95 In: Easy reference. IJP, 6(5)-7(4), Quintessence, Tokyo, 1995. (in Japanese)
- 23) Sato T.: The Quintessence YEAR BOOK '96 In: Easy reference. IJP, 7(5)-8(4), Quintessence, Tokyo, 1996. (in Japanese)
- 24) Sato T.: The Quintessence YEAR BOOK '97 In: Easy reference. IJP, 8(5)-9(4), Quintessence, Tokyo, 1997. (in Japanese)
- 25) Sato T.: The Quintessence YEAR BOOK '98 In: Easy reference, IJP, 9(5)-10(4), Quintessence, Tokyo, 1998. (in Japanese)
- 26) Sato T.: The Quintessence YEAR BOOK '99 In: Easy reference, IJP, 10(5)-11(4), Quintessence, Tokyo, 1999. (in Japanese)
- 27) Shiozawa I.: Polysulfide Rubber Base Impression using Resin Tray. In: Practice in Prosthodontics, Extra Issue/Impression Taking. Nakao K. et al. eds., Ishiyaku Publishers, Tokyo, 103-106, 1994. (in Japanese)
- 28) Shiozawa I., Kawawa A. and Hasegawa S.: The Present Condition of Fitness on Cast Crowns. In: QDT YEAR BOOK 1998, Quintessence Publishers, Tokyo, 76-80, 1998. (in Japanese)
- 29) Shiozawa I., Matsushita K. and Sato T.: Prognosis of Vital Abutment Teeth. In: Color Atlas: Prognosis of Prosthodontics Treatment [II] Crown and Bridge. Nakazawa I. et al. eds., Ishiyaku Publishers, Tokyo, 29-34, 1993. (in Japanese)
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## 2nd Department of Prosthodontics

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