Oral Implantology and Regenerative Dental Medicine

1. Staffs and Students (April 2010)
Professor Shohei KASUGAI
Associate Professor Makoto SHIOTA
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Dentists in Dental Implant Clinic Yoko YAMAGUCHI, Hidemi NAKATA,
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Takahiro NAKAMURA, Yuki SHIMIZU,
Daisuke SATO
Graduate Students Malik ISMAIL, Junichi KIMURA,
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Shang GAO, Masahirou SHIMOGISHI,
Kang CHEN, Yasunobu HADA,
Ken YUKAWA, Marwa MADI,
Maiko YAMAMOTO, Kaori TAKAYA,
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2. Purpose of Education
Currently, oral rehabilitation with dental implant is very effective and predictable. It is absolutely important for the
dental student to understand dental implant treatment compared to other modalities. Nine hours lectures for the 5th year
dental students are the introduction part. Each of these students has a chance to see patient examination process and
several steps of treatment planning for half a day in the dental implant clinic. Furthermore, each of the 6th year students
have a chance to see surgical procedures, prosthodontic treatments and maintenance procedures. In the residential
program, we accepted 20 dentists and teach them more advanced contents of dental implant treatment.
In the doctoral course of Implantology, biomaterial sciences, structural engineering, anatomical structures, diagnosis and
technical innovations are overviewed. In the doctoral course of Regenerative Dental Medicine, tissue engineering concept,
regeneration of soft tissue and bone and recent technological advancements in these field are overviewed

3. Research Subjects
Materials and structures of dental implant prostheses
Implant design and surface modification of dental implant
Dental implant and its surrounding tissues
Regeneration of soft tissues
Regeneration of bone

4. Clinical Services
In Dental Implant Clinic in the dental hospital, we treat partially or fully edentulous patients with dental implants. If soft
tissue management and/or bone augmentation procedures are required, we also do these surgeries. Number of patients in
Dental Implant Clinic is increasing every year and approximately 120 patients per day are treated, which is extremely
over our capacities. Approximately 2,000 implants were installed in 2010. As dental implant clinic of TMDU, patients with
some problems, who are treated by other dentists, are increasing and this is a great concern.

5. Publications
Original Articles


