

Implant Dentistry

Seminar/Lab./Clinic Academic year 1,2 credits
2•2•10

[Keywords] Implant, examination, treatment plan, superstructure, maintenance, osseointegration, regenerative medicine

[Academics] Morio Ochi, Masaru Murata

[Course aims]

The aim of this course is for students to acquire the knowledge and skills necessary for practice of oral implant treatment through lectures and practical exercises. Additionally, students will gain experience through clinical training under the supervision of instructors, and learn the knowledge and techniques required for all steps of treatment from the planning of oral implants to their maintenance.

[Course objectives]

The goals of this course are for students to be able to:

1. Explain the clinical significance of oral implant treatment.
2. Explain the indications and contraindications of an implant-supported prosthesis.
3. Explain the osseointegrated implant systems (e.g., implant components, implant surgery).
4. Explain the criteria for implant survival and the success rate of implants, as well as the risk factors for implant failure.
5. Outline the basic scientific knowledge relevant to oral implant treatment in dentistry.
6. Evaluate oral implant treatment and to analyze the results of examination appropriately.
7. Prepare a plan for oral implant treatment.
8. Perform comprehensive implant treatment tailored to the case.

[Course content]

Class	Theme	Content	Academics
1	Lectures on epidemiology, pathophysiology and etiology in the area of missing teeth.		
2	Lectures on the knowledge of internal medicine and molecular biology required to perform successful oral implant treatments.		
3	Lectures on mutual importance of both in vitro and in vivo studies.		
4	Gathering to read and discuss papers on basic or clinical research.		
5	Lecture on how to deliver a presentation at an academic conference and how to write a paper.		
6	Taking part in grand rounds.		
7	Hands-on training in the use of various implant systems using dental models.		
8	Prosthodontic treatment for implants in patients (a simple procedure).		
9	Observing a dental implant specialist performing oral implants during surgical and prosthodontic procedures.		

[Grading policies]

Your overall grade in class will be decided based on class attendance, reports, case presentation, and demonstration of dental prosthesis fabrication skills.

[Remarks]

Textbook: Students will be informed on which textbook to use.

Reference book: Students will be informed on which reference book to use

Remarks: Students will experience more than one third of the number of cases necessary to become a dental implant specialist by year 4 of their study.

[Preparation for course]

Students must understand the course objectives and prepare appropriately for classes.