



Graduate School of Dentistry
OSAKA UNIVERSITY



Center for Global Oral Health
Osaka University

International Resident Course in Micro-Endodontics 4-Day Course

Basic Micro-Endodontics: Introduction to the Elements of Micro-Endodontics

Department of Restorative Dentistry and Endodontology

Osaka University Dental Hospital

MAIN COURSE TITLE

Training Course in Micro-Endodontics 4-Day Course
Basic Micro-Endodontics: Introduction to the Elements of Micro-Endodontics

TRAINING NEEDS

Osaka University Dental Hospital invites dental practitioners to participate in a new clinical hands-on short course in Micro Endodontics. The aim of this course is to develop your endodontic operative skills with a focus in root canal treatments using a dental microscope. You will gain clinical experience by treating a range of challenging endodontic cases in the clinical facilities of the Osaka University Dental Hospital, under supervision of highly experienced staff, including specialists in endodontics and conservative dentistry.

The course will commence with a 3-day hands-on clinical skills component, covering all aspects of endodontics including assessment, using the endodontic microscope, isolation, access preparation, canal preparation with hand and rotary files. In the latter part of the course, participants will have opportunities of observing our clinics and discussing challenging endodontic cases.

Upon satisfactory completion of the course you will be issued with a certificate in advanced endodontic practice acknowledging the knowledge and experience gained in terms of content and number of hours

COURSE OBJECTIVES

Through the training course, participants will be expected to:

- 1) Understand the importance and effectiveness of using a dental microscope in endodontic treatments
- 2) Learn a step-by-step clinical approach to Micro-Endodontics through practical training using a dental microscope.

NUMBER OF PARTICIPANTS

5

LANGUAGE

English

REQUIREMENT FOR APPLICATION

Applicants should:

1. be graduates of a university-level dental or medical school,
2. be staff members (teaching and/or research) of a dental or medical school, or equivalent institution, e.g. dentists, or doctors specializing in dentistry,
3. have served at university or equivalent institution for over three years,
4. be at present specializing in endodontics, or hereafter intending to specialize in endodontics,
5. have basic knowledge and skills of endodontics
6. have sufficient command of spoken and written English,
7. be in good health, both physically and mentally,
8. not be serving in the military.

TRAINING INSTITUTION

Department of Restorative Dentistry and Endodontology
Osaka University Dental Hospital
1-8 Yamadaoka, Suita, Osaka 5650871 JAPAN

LOCAL COSTS and ACCOMMODATIONS

Local costs, such as accommodation, meals, and other personal expenses shall be the responsibility of each participant.

COURSE FEE

340,000 Japanese Yen (It does not include national/local consumption taxes.)

NOTES

The Faculty of Dentistry was established in 1951 as the first dental school among Japan's national universities to promote both instructor training and research in dental science and dental health education. The Graduate School was established in 1960.

Sixty students are accepted by the Faculty of Dentistry each year. The students pursue three semesters of pre-dental general education on the Toyonaka Campus, followed by nine semester of basic and clinical dental science in the Faculty of Dentistry and the Dental Hospital on the Suita Campus (total six years).

The faculty building on the Suita Campus was completed in 1983. It has been designed to accommodate a full program of education, research and patient care, and provides laboratories as well as clinical and classroom facilities for the Dental School and the Graduate School.

At present, the Faculty of Dentistry comprises academic 22 chairs and a Research Resources Center: 8 chairs for basic dental science and 13 for clinical dental science.

TIMETABLE

Day 1

AM: Lecture ①

Basic understanding for operating a dental microscope

- Historical background
- Details and functions of a dental microscope for clinical use
- Dental chair unit incorporating a microscope
- Magnification – potential of a clinical microscope
- Devices and instruments used in micro-endodontics
- Tips for operating a dental microscope

AM: Practical Trainings ①

Getting started using a microscope

- Adjustments
- Positioning
- Basic motions

Lunch

PM: Lecture ②

Principles of root preparation using a dental microscope

- Clinical procedures from access cavity preparation to enlargement of an orifice of a root canal

PM: Practical Trainings ②

Endodontic treatments of incisors and premolars.

- Preparation of an access cavity
- Identifying a root canal orifice
- Enlargement of a root canal orifice
- Shaping a root canal with NiTi files
- Endodontic irrigation using an ultrasonic device
- Observation of an apex

Feedback and discussion

Day 2

AM: Lecture ③

Best use of a dental microscope in treating molars with complicated configurations

AM: Practical Trainings ③

Endodontic treatments of upper molars.

- Preparation of an access cavity
- Identifying a root canal orifice
- Shaping a root canal with NiTi files
- Enlargement of a root canal orifice using an ultrasonic device
- Endodontic irrigation
- Observation of an apex

Lunch

PM: Practical Trainings ④

Endodontic treatments of lower molars.

Preparation of an access cavity

Identifying a root canal orifice

Shaping a root canal with NiTi files

Enlargement of a root canal orifice using an ultrasonic device

Endodontic irrigation

Observation of an apex

Feedback and discussion

Day 3

AM: Lecture ④

How best to tackle complicated cases: removing fractured instruments, repairing perforations, preparation of a C-shaped root canal, etc

AM: Practical Trainings ⑤

Tackling complicated cases

removing fractured instruments

repairing perforations

preparation of a C-shaped root canal

Lunch

PM: Lecture ⑤

Endodontic micro surgery

PM: Practical Trainings ⑥

Endodontic micro surgery: Apicoectomy of upper central incisors using a dental microscope

Feedback and discussion

Day 4

AM: Join the Clinic of Conservative Dentistry

Observing endodontic cases using a dental microscope in the clinic

Discussion on endodontic clinical cases presented by applicants

11:30~12:00 **Closing Ceremony**