

2022 4th Term Dental School		Jpn / Eng English
歯髓病態診断・治療学 Endodontology and Endodontics		
Course No.	Classification	Term
076051		4th Term
Numbering code	Classroom	
NDGD0DEDZ4006N	総診棟地下大講義室 講義室 1)	
Required / Elective		
Required		
Number of credits	Day & Period	
0.5	Thr.4	
Instructor(s)		
高柴 正悟 [TAKASHIBA Shogo], 山本 直史 [YAMAMOTO Tadashi], ARIASMARTINEZ ZULEMA [ARIAS MARTINEZ ZULEMA], 池田 淳史 [IKEDA Atsushi], 井手口 英隆 [IDEGUCHI Hidetaka]		

Sustainable Development Goals (SDGs)



Target students

Open to other faculties

No

Contact information

Professor Shogo Takashiba

Department of Pathophysiology - Periodontal Science

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Office hours

Office is open for students; 8:30 - 9:00 Monday, 17:00 - 17:30 Tuesday, and 8:30 - 9:00 Thursday at the office of Professor in Department of Pathophysiology - Periodontal Science located on the 7th Floor of Dental School Building

It is strongly recommended to send e-mail at least a day before you come, because the schedule may be changed

Use the official e-mail address provided by Okayama University, or your e-mail may be classified as junk/spam mail automatically.

For more information, please contact the person in charge occasionally.

Faculty, Program, or Graduate School specific items

Dental Education Model ・ Core ・ Curriculum (revised edition of 2016)

A Basic qualities and abilities required of a dentist

A-3 Medical skills and patient care

A-5 Team medical practice

A-5-1) Patient-centered team medicine

A-6 Medical quality and safety management

A-6-2) Countermeasures against medical accidents and prevention

A-8 Scientific inquiry

A-8-1) Oriented Recharge for Medical Research (Recharge of Research Mind)

A-9 Posture to Learning together

A-9-1) Preparation for lifelong learning

C Life science

C-4 infection and immunity

C-4-1) Infection

C-4-2) Immunization
 C-5 Etiology and pathology
 C-5-3) Repair and regeneration
 C-5-5) Inflammation
 D Dental medical equipment (dental materials, instruments, instruments)
 D-1 Properties and applications of dental medical equipment (dental materials, instruments, instruments)
 D-2 Dental material type, application, composition / composition, characteristics, operation method
 E Clinical dentistry
 E-1 Basics of medical treatment
 E-1-1) Basics of Examination
 E-1-2) Diagnosis using image inspection
 E-1-3) Clinical examination
 E-3 Normal condition and disease of teeth and periodontal tissue
 E-3-1) Generation and structure and function of teeth and periodontal tissue
 E-3-2) Characteristics and pathogenesis of tooth and periodontal tissue disease
 E-3-3) Diagnosis and treatment of diseases of teeth and periodontal tissue
 E-6 Medical knowledge necessary to collaborate with doctors

Language

Japanese or English depending on the students

Course description

We describe the pathology of limbic periodontal disease based on biological basis and teach the etiology, diagnosis, treatment, and prevention methods of these diseases.

Learning objectives

GIO:

We ask for students to acquire clinical knowledge of Endodontology and Endodontics, how to diagnose and treat the patients with dental pulp diseases or chronic periapical periodontitis.

Students need to learn and understand, 1) pathology and pathoetiology, 2) examinations, 3) diagnosis, 4) treatments, 5) preventio in Endodontology and Endodontics.

Learning outcomes

SBOs:

1. Explainable the pathology of endodontic diseases in sights of host and parasite balance.
2. Explainable the mechanisms of disease progressing or healing at periapical legions.
3. Explainable the anatomical properties of each tooth root.
4. Explainable clinical properties of endodontic diseases.
5. Explainable the methods of examination, diagnosis, treatments for endodontic diseases.
6. Explainable endodontic instruments.
7. Be able to diagnose endodontic diseases using clinical symptoms and X-ray images.
8. Be able to make treatment plans according to the diagnosis of endodontic diseases.

Course schedule

1st December 8

Diagnosis of Pathology of Endodontic Disease / Apical Periodontitis: History and Development of Endodontic Therapy

Professor Shogo Takashiba

2nd December 15

Treatment of Endodontic and Apical Periodontitis: Connection with Oral Medicine

Professor Shogo Takashiba

3rd December 22

Division of Treatment from Diagnosis of Disease Condition to Treatment (Focusing on Examination and Diagnosis)

Associate Prof. Tadashi Yamamoto

4th January 12

Treatment of Endodontic and Apical Periodontitis 1: Necessity of Root Canal Treatment Considering Anatomy

Assistant Prof. Zulema Rosalia Arias Martinez

5th January 19

Cure of Endodontic and Apical Periodontal Disease: Mode of Biological Reaction and Healing

Assistant Prof. Kinito Hirai

6th January 26

Treatment of Endodontic Disease / Apical Periodontitis 2: Dental Implantation / Re-Implantation (Including Internal Absorption and External Absorption)

Assistant Prof. Atsushi Ikeda

7th February 2

Treatment of Endodontic Disease / Apical Periodontitis 3: Surgical Endodontic Treatment and Atypical Cases

Assistant Prof. Hidetaka Ideguchi

8th February 9

Test: summarize "Endodontology and Endodontics"

Professor Shogo Takashiba

■ Learning activities outside of classroom

You should have sense/motivation for improve yourself by studying even though you do not have preliminary knowledge. It is important to always think about collaboration with basic subjects and other subjects.

■ Teaching format

Teaching format-a ratio of [Lecture] to [Not lecture] in this class

90% : 10%

Active learning-Collaborative activities

pair/group work, discussions, and presentations

Rarely

Active learning-Teacher-student interaction

Rarely

Active learning-Thinking activities (critical thinking, making a research question)

Occasionally

Active learning-Reflections(exercises, quizzes, reports)

Very often

Teaching format-Practical training

Not applicable

Teaching format-Message to the students

Printed materials (handouts), slides, videos, internet will be used at lecturer's demand.

Must watch the movies and read files in the following link.

<http://www.cc.okayama-u.ac.jp/~perio/bind21/lectures.html>

■ Equipment

Used-Audiovisual media (PowerPoint, CD, DVD)

Very often

Used-Study management system (Moodle)

Rarely

Used-Support (Guest speakers, TA, Volunteers)

Rarely

Used-Message to the students

Visual teaching materials using PowerPoint etc.

Students use ICT equipment to collect data (from HP in our department)

■ Textbook(s)

Note

We will introduce the textbook during the lecture.

1. Handout-Endodontology and Endodontics (<http://www.cc.okayama-u.ac.jp/~perio/bind21/lectures.html>)

Textbooks to be selected

1. Endodontic Therapy 3rd Edition, Tadao Toda (compiled), Ishiyaku Publishing \ 10,800
2. Perfect Endodontics, Kenji Takashima (Author), Dental Diamond Company, \ 10,800
3. Points for Avoiding Endodontic Failure 47 - Why does it hurt, why do not heal, Keiso Takahashi (author), Quintessence Publishing \ 13,650
4. Clinical Endodontology, Chihiro Kobayashi (Author), Ishiyaku Publishing \ 8,400
5. Endodontics 21 Endodontic Color Atlas, Hideaki Suda (editorial chief), Nagayue Shoten, \ 5,700
6. Cohen's Pathways of the Pulp Expert Consult, Kenneth M Hargreaves & Louis H. Berman, Mosby, \ 16,882

Reference material				
Reference book1	ISBN	978-4263446195		
	Book title	世界基準の臨床歯内療法 第2版		
	Author	石井宏編著		
	Publisher	医歯薬出版	Year of publication	2021
Reference book2	ISBN	978-4781208282		
	Book title	日本歯内療法学会がすべての歯科医師に贈る最新トレンド: 明日の臨床に役立つ知識と技術を徹底解説		
	Author	日本歯内療法学会編		
	Publisher	クインテッセンス出版	Year of publication	2021

Note

We will dictate during the lecture, and distribute the brochures.

We recommend searching references using library and internet appropriately.

Grading

It is mandatory to submit report on each lecture. Written examination is mandatory.

Evaluated by each lecturer on the basis of report (20%) and examination (80%).

Prerequisites

Mandatory for Dental students

Part of Teacher Training Program

Not applicable

Relation to JABEE

Not related

Sustainable Development Goals (SDGs)

(Good Health and Well-being) Good Health and Well-being

Professional Faculty

Applicable

The instructor is a dentist who conducts research and clinical practice of Endodontology & Endodontics.

Other comments

Our faculty member are in charge for each lecture.

All faculty are dentists, and they have experience in clinical dental practice.

Learner-centered outcomes (LCOs)

Learner Centered Outcomes (LCOs)	Related core competencies	Evaluation method
Ability to apply knowledge of life sciences to dentistry.	Basic Knowledge of Humanities, Society, and Nature	Discussion, Report, Written examination
Ability to plan and execute basic prevention and treatment of various dental disorders.	Critical Thinking Skills	Discussion, Report, Written examination
Ability to conduct and participate in global discussions of dental medicine.	Intercultural Skills	Discussion, Report, Written examination
Ability to identify and solve problems related to the field of dentistry using a scientific approach.	Problem-solving Skills	Discussion, Report, Written examination

