

2022 1st Term Dental School		Jpn / Eng English
口腔内科学 Periodontal/Oral Medicine		
Course No.	Classification	Term
076050		1st Term
Numbering code	Classroom	
NDGIOLAFZ4001N	臨床講義室	
Required / Elective		
Required		
Number of credits	Day & Period	
1	Thr.3,Thr.4	
Instructor(s)		
高柴 正悟 [TAKASHIBA Shogo], 山本 直史 [YAMAMOTO Tadashi], 大森 一弘 [OMORI Kazuhiro], 信田 有希 [SHINODA Yuki], 平井 公人 [HIRAI Kimito]		

Sustainable Development Goals (SDGs)



Target students

Open to other faculties

See "Target students" above.

Contact information

Phone: 086-235-6675

Email: stakashi@okayama-u.ac.jp

Office hours

Monday 8:00-9:00, Tuesday 17:00-18:00, Thursday 8:00-9:00 (Dental School Building 7th floor, Dept. of Periodontal Science)

Since schedule is subject to change, it would be helpful if you contact me by e-mail in advance! (Please use the official mail address of our university. Otherwise, it may be classified as junk mail and I may not be able to respond)

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-2 Medical knowledge and ability to deal with problems

A-2-1) Ability to explore and solve problems

A-2-2) Way of learning

A-7 Medical practice in society

A-7-1) Contribution to regional medical care

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

B Society and dentistry

B-1 Health concept

C Life science

C-4 infection and immunity

C-4-1) Infection

C-4-2) Immunization

C-5 Etiology and pathology

C-5-2) Cell injury, tissue injury and atrophy

C-5-3) Repair and regeneration

C-5-4) Circulation injury

C-5-5) Inflammation
C-6 Biological and drug
C-6-4) side effects and adverse effects of drugs
E Clinical dentistry
E-6 Medical knowledge necessary to collaborate with doctors

Language

Japanese or English depending on the students

Course description

This lecture reviews the relationship of periodontal medicine and whole body science, especially infectious disease, chronic inflammation and immune disease. We also teach the concept of periodontal medicine as individual medicine.

Learning objectives

GLO:
We ask for students to acquire clinical knowledge of periodontal medicine. Students need to learn and understand the association of periodontal medicine and systemic diseases on the interdisciplinary basis of pathophysiology for infectious disease, chronic inflammation and immune disease.

Learning outcomes

SBOs:

1. Explainable the pathology of marginal periodontitis and periapical periodontitis using the knowledge of infectious disease medicine and immunology.
2. Explainable the disease etiology at molecular level.
3. Explainable the concept and consequence of individual medicine.
4. Explainable the concept of dental treatment for compromised host.
5. Explainable the relationship of oral disease and systemic diseases.
6. Be able to do the scientific judgment using scientific papers appropriately.
7. Explainable the pathology of oral disease associated with systemic conditions. 8. Be able to get the novel knowledge of proceeding for diagnosis, treatment and research.

Course schedule

Attention:

1. Due to the COVID-19 pandemic, live online lectures, including lectures by part-time lecturers will be provided. (On-demand lectures are also available.)
2. This course is also open as a liberal arts course, thus students from other faculties may attend. In this year, since the lectures of the Dental School will be held first, they will participate in the class from May 12 (5th lecture).
3. There is a high possibility that the schedule will change due to the special lecture, thus please check the moodle in advance.

1st April 7 (3rd - 4th period; 11:00-12:00, 12:50-13:50)

General Outline of Oral Science (Oral Medicine / Periodontal Medicine)

Contribution and influence from oral science to adjacent science

Professor Takashiba

> Short test

2nd April 14 (3rd - 4th period; 11:00-12:00, 12:50-13:50)

Effects of Systemic Illness on Mouth & Influence of Oral Diseases on Whole Body

Directions to be aimed for future dental care

Associate Prof. Yamamoto

> Short test

3rd April 21 (3rd - 4th period; 11:00-12:00, 12:50-13:50)

Effects of Systemic Illness on Mouth & Influence of Oral Diseases on Whole Body

Relationship with dental / compromised hosts and diseased persons in hospital

Assistant Prof. Ito-Shinoda

> Short test

4th April 28 (4th period; 12:50-13:50)

Effects of Systemic Illness on Mouth & Influence of Oral Diseases on Whole Body

Diabetes outpatient

Senior Assistant Prof. Omori

> Short test

5th May 12 (4th period; 12:50-13:50)

Effects of Systemic Illness on Mouth & Influence of Oral Diseases on Whole Body

Oral medicine in the hospital cooperation and regional collaboration

Assistant Professor Hirai
> Short test

6th May 19 (1st - 4th period; 08:40-12:00, 12:50-13:50)
Special online lectures; Part-time Lecturers, Professor Takashiba
> Emeritus Prof. Kurihara (Hiroshima University)
> Prof. Yoshimura (Nagasaki Dental University)
> Prof. Sato (Nippon Dental University at Niigata)
Lecture tiles: TBD
> Short test

7th May 26 (4th period; 12:50-13:50)
Effects of Systemic Illness on Mouth & Influence of Oral Diseases on Whole Body
Maternity outpatient
Senior Assistant Prof. Omori
> Short test

8th June 2
Final Exam (Reserve)
Summarize "Periodontal/Oral Medicine"
Professor Takashiba
>> Students who submit each report on time will be exempt from this final exam
>> Students who need to take this exam should voluntarily contact Prof. Takashiba by e-mail one week in advance .

■ Learning activities outside of classroom

To see some of the past lecture materials in advance. Access from the following link. Password is ps6675.
Section "Periodontal/Oral Medicine" at <http://www.cc.okayama-u.ac.jp/~perio/bind21/lectures.html>

■ Teaching format

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

80% : 20%

Active learning-Collaborative activities

pair/group work, discussions, and presentations

Occasionally

Active learning-Teacher-student interaction

Occasionally

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

Often

Active learning-Reflections(exercises, quizzes, reports)

Very often

Teaching format-Practical training

Not applicable

Teaching format-Message to the students

< Note > Due to the reduction of lectures as a result for anti-COVID-19 pandemic, short test will be scheduled for each lecture by using Okayama University moodle. Students' will be evaluated by both short tests and written reports. (You should consult Prof. Takashiba before in advance. Short test may be waived)

Includes preparation and review at HP of our laboratory.

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In case you need special consideration, please consult in advance.

■ Equipment

Used-Audiovisual media (PowerPoint, CD, DVD)

Very often

Used-Study management system (Moodle)

Very often

Used-Support (Guest speakers, TA, Volunteers)

Often

Used-Message to the students

We use prints (PDF), slides, video, Internet etc. Of course, ICT too.

There are also board books.

Contact matter to students:

•We will use slides including English and Japanese languages, so if you need consideration please consult with your supervisor before registration.

•Since there are also board books, If consideration is necessary, please consult with the supervisor in charge before registering for the course.

Textbook(s)				
Text book1	ISBN	978-4-263-44435-1		
	Book title	糖尿病患者に対する歯周治療ガイドライン		
	Author	日本歯周病学会編		
	Publisher	医歯薬出版	Year of publication	2015
Text book2	ISBN	978-4-263-44469-6		
	Book title	歯周病と全身の健康		
	Author	日本歯周病学会編		
	Publisher	医歯薬出版	Year of publication	2016
Text book3	ISBN	9784862270160		
	Book title	人は口から老い口で逝く: 認知症も肺炎も口腔から		
	Author	落合邦康著		
	Publisher	日本プランニングセンター	Year of publication	2021

Note

Textbook #1 & #2 are available as PDF from the Website of Japanese Society of Periodontology without any charge.

Taizendo Bookseller

Reference material				
Reference book1	ISBN	4023318752		
	Book title	続・日本人はこうして歯を失っていく: 専門医が教える全身の健康につながる歯周病予防		
	Author	日本歯周病学会, 日本臨床歯周病学会著		
	Publisher	朝日新聞出版	Year of publication	2020
Reference book2	ISBN	481601182X		
	Book title	歯周病と7つの病気: 8つのNEWS		
	Author	吉江弘正, 高柴正悟編著		
	Publisher	永末書店	Year of publication	2007
Reference book3	ISBN	9784930881854		
	Book title	歯科医師・歯科衛生士のための唾液検査ハンドブック		
	Author	佐藤慶太 [ほか] 編著		
	Publisher	ヒョーロン・パブリッシャーズ	Year of publication	2008
Reference book4	ISBN	9784830612886		
	Book title	内科医に必要な口腔疾患の知識		
	Author	藤田浄秀編集		
	Publisher	文光堂	Year of publication	2003

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Section "Periodontal/Oral Medicine" at <http://www.cc.okayama-u.ac.jp/~perio/bind21/lectures.html>

Grading

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Prerequisites

Mandatory for Dental Students

Self-learning ability and motivation

Ability to obtain something new information on your own

Ability of a logical statement to explain your opinion of different generations

Part of Teacher Training Program

None

Relation to JABEE

None

Sustainable Development Goals (SDGs)

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

(Sustainable Cities and Communities) Sustainable Cities and Communities

Professional Faculty

Applicable

We are conducting research on the relationship between periodontal disease and systemic disease. In particular, we analyze the interrelationship between periodontitis and diabetes in terms of molecular biology and analyze the effect of periodontitis on compromised hosts. The importance of this field in dentistry has been rapidly increasing in recent years, and the content of research is incorporated into the lecture.

Lecturers are dentists, and all of them perform research and clinical practice of Periodontal Medicine.

Other comments

This lecture has a translational role between basic and clinic to understand subsequent lectures, "Periodontology and Periodontics", "Endodontology and Endodontics". For evolution of "Periodontal Medicine", and understanding "Oral infection disease", students are intended to think what "Dentistry" is. Lectures are given lectures on topics that each staff is good at, with the cooperation of courses and other staff in the department of clinical department.

All lecturers in charge are dentists, they research oral medicine andディスカッション, レポート, 筆記試験 apply them to daily clinical practice.

Learner-centered outcomes (LCOs)

Learner Centered Outcomes (LCOs)	Related core competencies	Evaluation method
Ability to understand and apply various medical management systems to dentistry.	Information Literacy	Discussion, Report, Written examination
Ability to apply knowledge of clinical medicine to dentistry.	Lifelong Learning Skills	Discussion, Report, Written examination
Ability to adopt evidence-based practice in clinical decision making	Problem-solving Skills	Discussion, Report, Written examination
Ability to conduct and participate in global discussions of dental medicine.	Intercultural Skills	Discussion, Report, Written examination

* [Explanation of core competencies](#)