

2025 Akita University Faculty of Medicine Syllabus

Category	: 医療・社会・行動科学 III
Course Title	: Infectious Diseases and Infection Control - 感染症の予防、診断と治療 -
Eligible Students	: grade 3 Related Course
Code	: 71633020
Schedule	: week 32 ~ week 36 (Tue Period 5-10)
Credits	: 1

1. Lead Instructor

Saga Tomoo (Hospital Professor, Division of Infection Control and Prevention, 6248, Office Hour: 8 : 30 ~ 17 : 00)

2. Instructors

Saga Tomoo (Hospital Professor, Division of Infection Control and Prevention, 6248, Office Hour: 8 : 30 ~ 17 : 00)

Ueki Shigeharu (Professor, Department of General Internal Medicine and Clinical Laboratory Medicine, 6209, Office Hour: 8 : 30 ~ 17 : 00)

Takeda Masahide (Lecturer, Department of Respiratory Medicine, 7510, Office Hour: 8 : 30 ~ 17 : 00)

Tateda Kazuhiro (Part-time Lecturer, Toho University School of Medicine)

Omokawa Ayumi (Part-time Lecturer, Sugiyama Hospital)

Okuyama Shin (Part-time Lecturer, Nakadori General Hospital)

Ishikawa Yoko (, Division of Infection Control and Prevention, 6248, Office Hour: 8 : 30 ~ 17 : 00)

3. Course Description Outline(Course Objectives)

感染症の診断、治療、予防、感染制御について臨床上の要点を理解し、適切な感染症診療について課題レポート作成およびその発表を通して説明できる。(2-4 ~ 2-7、3-2 ~ 3-7、4-1 ~ 4-5、4-7 ~ 4-8、5-2 ~ 5-3)

さらに、本領域が関連するプロフェッショナリズム、医の倫理、医療安全、医療法（制度）、EBM について説明・実践できる。(1-1 ~ 1-2, 3-3, 3-5, 3-7, 4-4)

In this course, student will understand the clinical essentials of diagnosis, treatment, prevention and control of infectious diseases. They can also explain appropriate management of infectious disease through writing and presentation of assignment reports. In addition, they can explain and practise professionalism, medical ethics, medical safety, medical laws and regulations and EBM relevant to infectious diseases.

4. Textbook/Reference Books

Textbook/Reference Books

Q シリーズ 新微生物学 改訂第 2 版. 舘田一博・松本哲哉・岩田敏・榎村浩一・赤尾信明 (編著), 木村聡一郎・本田なつ絵・吉澤定子・石井良和・嵯峨知生・森伸晃・小林了・多屋馨子・山口哲央・南條友央太 (著), 日本医事新報社, 2021 年
レジデントのための感染症診療マニュアル 第 4 版. 青木真 (著), 医学書院, 2020 年

5. Assessment

出席回数を満たした者を統一試験およびレポートで評価する。レポートは、各個人に割り振った課題について臨床上の要点を 3 分間で説明するプレゼン資料を WebClass に提出したものを評価し、優秀学生には課題発表会で発表していただく。詳細は講義中に説明する。

Those who have met the attendance requirement will be assessed on the basis of an assignment report and a summative examination. Assignment reports will be evaluated based on a 3-minute presentation on WebClass explaining the main clinical points of the assignment allocated to each individual student, and the best students will be asked to present their work at the assignment presentation session. Details will be explained during lectures.

6. Out of Class Study/Message

COVID-19 のパンデミックで感染症が再び注目されています。感染症・感染制御は全ての臨床医が避けて通ることができない重要な分野であり、適切な感染症診療を習得する必要があります。本講義シリーズは、感染症を専門として修めた感染症専門医ならびにその専攻医、および感染管理認定看護師が担当します。

感染症については基礎医学での微生物学、および各系統講義シリーズでもすでに触れているところですが、本講義シリーズではそれらの縦系を臨床感染症の観点で横断的に整理して横系で紡ぎなおし、感染症・感染制御を今後継続的に学ぶ足掛かりを提供します。微生物・感染症領域の国家試験過去問題集を提供しているのもその一環です。

感染症・感染制御には多くの固有名詞が登場する 3 つの山があります。病原体、抗微生物薬、ワクチンの 3 つの山に対し、どのように学ぶと理解しやすいかを講義の中でお伝えしますが、記憶の新しいうちに能動的に整理することが感染症を得意分野にするコツです。

よりよい感染症診療の実現に向けて受講者の皆さんとともに前進できることを願っています。

The COVID-19 pandemic has brought infectious diseases back into the spotlight. Infectious diseases and infection control is an important field that all clinicians cannot avoid. All clinicians have to learn how to manage infectious diseases appropriately. This lecture series is delivered by infectious disease specialists and fellows as well as by certified infection control nurses.

Infectious diseases have already been touched on in microbiology in basic medicine and in each of the systematic lecture series, but this lecture series will weave these warp threads together in a cross-sectional manner from the perspective of clinical infectious diseases and provide a foothold for continued study of infectious diseases and infection control in the future. This is part of the reason why we provide a collection of past national examination for medical practitioners in the field of microbiology and infectious diseases.

Infectious diseases and infection control has three major difficulties to study on which many proper nouns appear. In the lectures, we will tell you how to master pathogens, anti-microbials and vaccines, but the key to excelling in infectious diseases is to actively organise them while they are fresh in your mind.

We hope that we can move forward together with the participants towards better infectious disease practice.

Topics and Contents of class, Course Objectives						
	Class Date	Period	Class Format	Topics and Contents of class, Course Objectives	Instructors	Class Room
1	1 / 6 (Tue)	5-6	Lecture	Theme: 導入・微生物検査 (1) Introduction / Diagnosing infectious diseases (1) 導入 微生物検査を理解し臨床的な意義を説明できる Introduction for this course Understand the microbiological laboratory tests and explain their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室
2	1 / 6 (Tue)	7-8	Lecture	Theme: 微生物検査 (2) Diagnosing infectious diseases (2) 微生物検査を理解し臨床的な意義を説明できる Understand the microbiological laboratory tests and explain their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室
3	1 / 6 (Tue)	9-10	Lecture	Theme: ワクチン・VPD (ワクチンで予防可能な疾病) Vaccines and vaccine-preventable diseases (VPDs) ワクチン・VPD を理解し臨床的な意義を説明できる。 Understand vaccines and vaccine-preventable diseases and explain their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室
4	1 / 13 (Tue)	5-6	Lecture	Theme: 感染制御 (1) Infection control (1) 感染制御を理解し臨床的な意義を説明できる Understand infection control and explain their clinical essentials	Ishikawa Yoko	医学系研究棟 4 階 6 講義室
5	1 / 13 (Tue)	7-8	Lecture	Theme: 新興再興感染症 Emerging and re-emerging infectious diseases 新興再興感染症を理解し臨床的な意義を説明できる。 Understand emerging and reemerging infectious diseases and explain their clinical significance.	Omokawa Ayumi	医学系研究棟 4 階 6 講義室
6	1 / 13 (Tue)	9-10	Lecture	Theme: 感染制御 (2) Infection control (2) 感染制御を理解し臨床的な意義を説明できる Understand infection control and explain their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室
7	1 / 20 (Tue)	5-6	Lecture	Theme: 日和見感染・医療関連感染 opportunistic infections and healthcare-associated infections 日和見感染・医療関連感染を理解し臨床的な意義を説明できる Understand opportunistic infections and healthcare-associated infections and explain their clinical significance	Saga Tomoo	医学系研究棟 4 階 6 講義室
8	1 / 20 (Tue)	7-8	Lecture	Theme: 感染症治療 (1) Treating infectious diseases (1) 感染症の治療を理解し臨床的な意義を説明できる Understand the treatment of infectious diseases and explain their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室
9	1 / 20 (Tue)	9-10	Lecture	Theme: 感染症治療 (2) Treating infectious diseases (2) 感染症の治療を理解し臨床的な意義を説明できる Understand the treatment of infectious diseases and explain their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室
10	1 / 27 (Tue)	5-6	Lecture	Theme: 感染症診療の実践とトピックス Practicalities and topics of managing infectious diseases 感染症診療の実践とトピックスを理解し臨床的な意義を説明できる。 Understand the practicalities and topics of managing infectious diseases and their clinical essentials	Saga Tomoo	医学系研究棟 4 階 6 講義室

Topics and Contents of class, Course Objectives						
	Class Date	Period	Class Format	Topics and Contents of class, Course Objectives	Instructors	Class Room
11	1 / 27 (Tue)	7-8	Lecture	Theme: 感染制御 (3) Infection control (3) 感染制御を理解し臨床的な意義を説明できる Understand infection control and explain their clinical essentials	Ueki Shigeharu	医学系研究棟 4 階 6 講義室
12	1 / 27 (Tue)	9-10	Lecture	Theme: 感染症法 Infectious Diseases Control Law and other laws and regulations 感染症法を理解し臨床的な意義を説明できる Understand the Infectious Diseases Control Law and other laws and regulations and explain their clinical essentials	Okuyama Shin	医学系研究棟 4 階 6 講義室
13	2 / 3 (Tue)	5-6	Lecture	Theme: 特別講義 Special lecture Special lecture by Professor Tateda Kazuhiro at Toho University	Tateda Kazuhiro	医学系研究棟 4 階 6 講義室
14	2 / 3 (Tue)	7-8	Lecture	Theme: 課題発表 Assignment report presentation and feedback Assignment report presentation and feedback	Saga Tomoo	医学系研究棟 4 階 6 講義室
15	2 / 3 (Tue)	9-10	Lecture	Theme: 結核・呼吸器感染症 Tuberculosis and respiratory tract infections 結核・呼吸器感染症を理解し臨床的な意義を説明できる Understand tuberculosis and respiratory tract infections and explain their clinical essentials	Takeda Masahide	医学系研究棟 4 階 6 講義室