

Infectious Diseases

Lecture Academic year 1,2 credits 1

[Academics] Yoko Tsukamoto

[Course aims]

We will study basic microbiology, infectious diseases, and epidemiology in the context of infectious disease nursing.

[Course objectives]

1. To learn the fundamentals of epidemiology, microbiology, and infectious diseases to provide the basis for the study of infectious diseases.

2. Diagnosis and treatment of major infectious diseases: to understand the pathology and treatment of the respective infectious diseases

common in the areas of maternity, pediatrics, adult health, geriatrics, and the ICU.

3. To understand the pathology, prevention, and treatment of opportunistic infectious diseases in patients who are in a compromised state.

4. To be able to discuss cases of patients with infectious diseases using problem-based learning (PBL).

[Course content]

Class	Theme	Content	Academics
1) 2	1. Fundamentals of infectious diseases	Fundamentals of immunology: definition of immunity, natural immunity, acquired immunity, immune response, humoral immunity, and cellular immunity	Yoko Tsukamoto
3) 4		Fundamentals of microbiology	Yoko Tsukamoto
4) 5		Fundamentals of infectious diseases	Yoko Tsukamoto
5) 6	2. Diagnosis and treatment of major infectious diseases	Pathology, assessment, and treatment of the infectious diseases often seen in maternity and pediatrics	Yoko Tsukamoto
6) 7		Pathology, assessment, and treatment of infectious diseases often seen in adults	Yoko Tsukamoto
8		Infectious diseases often seen in the elderly	Yoko Tsukamoto
9		Treatment and management of infectious diseases and septicemic diseases that are problematic in ICUs	Yoko Tsukamoto
10		How to read microbiological test methods and test value data	Yoko Tsukamoto
11	3. Pathology and opportunistic infections in patients who are in a compromised state	Pathophysiology of patients who are in a compromised state	Yoko Tsukamoto
12		Pathology, prevention, and treatment of representative opportunistic infections	Yoko Tsukamoto
13) 15	4. Case studies using PBL	Investigation of cases of patients with infections (HIV, hepatitis C) using PBL	Yoko Tsukamoto

[Class implementation method]

Combination of face-to-face learning and distance learning

Class implementation depends on the implementation policy of each department (graduate school) or school.

[Grading policies]

Tests (40%), reports (30%), and presentations (30%)

[Textbook]

1. Mandell, Bennett, & Dolin: Principles and Practice of Infectious Diseases, 6th ed., Churchill Livingstone, 2005
2. The Washington Manual: Infectious Diseases Subspecialty Consult, Richard Starlin (editor), Iwata, Kentaro (translation supervisor), 2006, Medical Sciences International, Ltd.

[Reference book]

Explained on an as-needed basis.

[Preparation for course]

Carefully read the required documents and materials.