

Advanced Course in Disease Control and Molecular Epidemiology

Lecture/Lab. Academic year 1,2 credits 2,4

[Keywords] Health promotion, disease prevention, epidemiology, public health, community health, global health, health service reasearches

[Academics] Hiroko Miura, Hirofumi Matsuoka, Osamu Uehara

[Course aims]

Medical professionals need to understand and acquire natural and social scientific knowledge and skills to prevent diseases and to acquire the necessary attitude to solve these problems. The purpose of this course is to lay the foundation for applying the theories and techniques for disease prevention and health promotion at the individual, process, and community levels to the health promotion of humanity as a whole. The course also aims to deepen students' understanding of the pathology and etiology of various diseases and establish a foundation for applying new preventive measures.

[Course objectives]

1. Understand and apply bacteriological and immunological analytical methods necessary for elucidating the etiology of diseases and their prevention.
2. Understand and apply epidemiological analytical methods necessary to elucidate the etiology of disease and its prevention.
3. Understand and practice the importance of community health and global health.
4. To deepen understanding and practice of health service research.

[Course content]

| Class | Theme  | Content | Academics         |
|-------|--|---------|-------------------|
| 1     | Basic research on etiology, pathogenesis, and prevention of diseases (1) |         | Osamu Uehara      |
| 2     | Basic research on etiology, pathogenesis, and prevention of diseases (2) |         | Osamu Uehara      |
| 3     | Research design required to conduct the study                            |         | Hirofumi Matsuoka |
| 4     | Analytical methods required to conduct the study                         |         | Hirofumi Matsuoka |
| 5     | Community Health Policy Research   |         | Hiroko Miura      |
|       | Analytical method for health services researches                         |         | Hiroko Miura      |

[Class implementation method]

Combination of face-to-face learning and distance learning

\* Class implementation depends on the implementation policy of each department (graduate school), interdisciplinary studies, and school.

[Grading policies]

Overall grade in the class will be based on class attendance and reports (or oral examination).

[Textbook]

Instructions will be given during the lecture.

[Reference book]

As mentioned above