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| Course | 予防薬学特論 Advanced Preventive Medicine | | | Teacher | H. Kobayashi, M. Fukazawa, Y. Ogawa, H. Kuma, H. Sato, H. Nagaoka, K. Ohta, H. Tanaka, M. Sohda, S. Takazaki, K. Fujimoto, Y. Deguchi | | |
| Type of course | Lecture | Credits | 2 units | Period | Fall | Compulsory/ Elective | Optional |
| Aim of Course | | | | | | | |
| <p>The aim of this course is to understand the basic and advanced scientific background of preventive medicine today. And we expect to be a pharmacist who can advise their correct information to patients.</p> <p>Toward this aim, students are expected to be able to use those knowledges accurately in our lectures. Students will also choose a topic in our theme, and explain that topic to the class.</p> | | | | | | | |
| | Attainment target of Course | | | | Evaluation tool/method | Ratio of Evaluation | |
| Interest/otivation/ AttitudeM | 1: To be able to understand preventive medicine by giving a presentation. 2: To be able to experiment basic term of preventive medicine accurately. | | | | Group discussion Final presentation | 10% 20% | |
| Consideration/ Judgement | To be able to do preparations and analyses consistently. | | | | Review questions | 10% | |
| Skill/Expression | To be able to prepare the presentation slides for their interest topics. | | | | Assignments Final presentation | 10% 10% | |
| Knowledge/ Understanding | To be able to discuss and explain lecture's topics. | | | | Review questions Final presentation | 20% 20% | |
| Attendance | | | | | | Requested to take exam | |
| Total Score | | | | | | 100% | |
| Evaluation criteria and supplementary explanation of evaluation means or methods | | | | | | | |
| Overall grade in this class will be decided based on the following: Group discussion (10%), Review questions (30%), Assignments (10%), and Final presentation (50%). | | | | | | | |
| Overview of course | | | | | | | |
| This course is intended to introduce topics on various preventive medicine and related scientific research. In the last two classes, students will choose the topic of most interest, and will present the latest or related news about selected topic to the other students. The official language of this class is English. Each class will consist of a 90min presentation. | | | | | | | |
| Textbook · Reference book | | | | | | | |
| Textbook: none in particular (distribute related papers each time) Reference book: none in particular | | | | | | | |
| Out of class learning and expectations for students | | | | | | | |
| The students are expected to read the related reference and assigned material carefully. Also follow the latest news and reports released by mass media. Some of them will be used in the class. | | | | | | | |

| # | topic | Details (Teacher) | Preparation • Review |
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| 1 | Useful microorganisms and disease prevention of the people | Consider application of substances produced by useful microorganisms inhabiting human beings to preventive medicine. (Dr. Kobayashi) | (Preparation) Read references (Review) Review questions |
| 2 | Microorganism antigens targeted for diagnosis | Outline and discussion on pathogenic <i>Candida</i> yeast-specific polysaccharide antigen present on the cell wall. (Dr. Kobayashi) | (Preparation) Read references (Review) Review questions |
| 3 | Hospital-acquired infections | Domestic and foreign situation regarding changes in drug-resistant bacteria and the infections they cause. (Dr. Ogawa) | (Preparation) Read references (Review) Review questions |
| 4 | Cancer prevention | Introduction of recent studies about cancer prevention in Japan. (Dr. Deguchi) | (Preparation) Read references (Review) Review questions |
| 5 | Relationship between artificial substances and infertility | Evaluation of testicular toxicity of prenatal exposure to chemical substances, and preventive medicine of infertility. (Dr. H. Tanaka) | (Preparation) Read references (Review) Review questions |
| 6 | Chemoprevention of intestinal cancer | The effect of multi-drug resistance protein and the inhibitor on intestinal cancer. (Dr. Fujimoto) | (Preparation) Read references (Review) Review questions |
| 7 | Useful clinical test and prevention method for deep-venom thrombosis | Introduction of “Economy-class syndrome” and discussion of the effective prevention for relative disease. (Dr. Kuma) | (Preparation) Read references (Review) Review questions |
| 8 | Neurodegenerative disorders | The recent findings in the pathogenesis and the therapy of neurodegenerative disorders will be discussed. (Dr. Takazaki) | (Preparation) Read references (Review) Review questions |
| 9 | Prevention of dementia Can we do that? | Introduction and evaluation of the recent studies about prevention of dementia. (Dr. Ohta) | (Preparation) Read references (Review) Review questions |
| 10 | Molecular basis of progression of non-alcoholic steatohepatitis (NASH) | Understanding the mechanisms in the NASH pathogenesis and discussion for the design of novel preventive strategies. (Dr. Fukasawa) | (Preparation) Read references (Review) Review questions |
| 11 | Environmental tobacco smoke (ETS) and Hazardous waste | Measuring result of odor compounds in ETS and health effects of the flow in hazardous waste (Dr. Sato) | (Preparation) Read references (Review) Review questions |
| 12 | Dietary practices and disease prevention | Discussion on the health effects of food ingredients: dietary polyphenol as an example. (Dr. Sohda) | (Preparation) Read references (Review) Review questions |
| 13 | Food as Medicine | Overview and discussion of Prevent Disease. (Dr. Nagaoka) | (Preparation) Read references (Review) Review questions |
| 14 | Group Discussion and Presentation #1 | Group discussion and presentation on interest subject in past lectures. (All instructors) | (Preparation) (Review) |
| 15 | Group Discussion and Presentation #2 | Group discussion and presentation on interest subject in past lectures. (All instructors) | (Preparation) (Review) |