

Course Coding(科目ナンバー)	Year/Semester/Term(年度・学期)	Faculty Offering Course(時間割所属・時間割コード)	Eligible Student Year(開講年次)	Credits(単位数)	Weekday and Period(曜日・時限)
RDM7-000-81-2	2026whole year	Graduate School of Medical Sciences (20010)	1, 2, 3, 4	2	others
Course Title(Theme)(科目名(講義題目))			Instructor(s)(担当教員)		
Medical Informatics and Medical Ethics (For students admitted in 2022 and before)(A1 Medical Informatics and Medical Ethics)			KADOOKA Yasuhiro, KASAOKA Shunji, NAKAMURA Taishi, USUKU Koichiro		
Goals with their ratio(学修成果とその割合)					
1.Advanced expert knowledge, skill and research capability ……25% 2.Profound inter-disciplinary knowledge ……25% 3.Global perspective and ability to take initiative action ……25% 4.Social leadership drive ……25%					
Type of Class(授業の形態)	Lecture and Seminar				
Teaching Method(授業の方法)	The course is provided by lecture and discussion or e-Learning using the moodle or CITI Japan.				
Course Goals(授業の目的)	Medical Informatics and Medical Ethics aims at proper management of health information and ethical problems arose from medical practice. In this course, you learn basic concepts used in this filed, including electronic health records, protection of computer-processed personal data, health care system in Japan and other countries, evaluation of medical care and DPC, problems of abortion, euthanasia and death with dignity, informed consent, principle of ethics. This course serves as introductory for all students as you obtain essential knowledge on medical informatics and medical ethics, and emergency medicine.				
Course Learning goals(学修目標)	【A level (A水準)】 To be able to handle or manage health information and ethical problems arose from medical practice. 【C level (C水準)】				
Course Outline(授業の概要)	In order to explain basic principles of medical informatics and medical ethics, it is discussed how the problems are managed. Basic concepts are introduced. More specifically, you are expected to understand the followings: (1) electronic health records; (2) protection of computer-processed personal data; (3) information literacy; (4) ethical issues at the beginning of life; (5) ethical issues at the end of life; (6) informed consent, privacy and principle of ethics, (7) research, high technology medicine and ELSIs, (8) emergency medical service system and (9)disaster medicine. Participants are requested to learn medical ethics through e-learning system offered by the project of Collaborative Institutional Training Initiative (CITI) Japan, or submit a short comment on some lectures, which will be helpful to provide positive feed back to the next session.				
Details for Individual Classes(各回の授業内容)					
No.(回)	Date(月日)	Class Theme(授業テーマ)	Brief Outline of Class(内容概略)		
1		Yasuhiro Kadooka 【eEJ-0】 Class Orientation and eAPRIN	<ul style="list-style-type: none"> • Introduction and orientation of this course • Responsible Conduct of Research_RCR • Research Misconduct_RCR • Data Handling_RCR 		
2		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • Rules for Collaborative Research_RCR • Conflicts of Interest_RCR • Authorship_RCR 		
3		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • What Is Plagiarism?_RCR • Communicating Information to the Public_RCR • Peer Review(Biomedical)_RCR 		
4		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • Mentoring_RCR • Managing Public Research Funds_RCR • Research Integrity and Research Security_RCR 		
5		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • Appropriate Use of AI in Research, etc._RCR • Ethics of Medical and Health Research Involving Human Subjects I • Ethics of Medical and Health Research Involving Human Subjects II 		
6		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • Review by an Institutional Review Board (IRB)_HSR • Handling Personal Information in Research_HSR • Genomic and Genetic Analysis Studies in Human Populations_HSR 		
7		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • Group Harm Arising from Research_HSR • Informed Consent in Research_HSR • Research Subjects Who Merit Special Considerations_HSR 		
8		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • Records-Based Research_HSR • Social and Behavioral Research for Biomedical Researchers_HSR • International Studies_HSR 		
9		eAPRIN 【eEJ-0】	<ul style="list-style-type: none"> • The Ethics of Pluripotent Stem Cell Research I_HSR • The Ethics of Pluripotent Stem Cell Research II_HSR • Medical and Health Research Involving Human Subjects_HSR 		
10		Taishi Nakamura and Koichiro Usuku 【eEJ-0】	Health care system in Japan and in the world		
11		Taishi Nakamura and Koichiro Usuku 【eEJ-0】	Future prospects of Electronic medical records, Clinical research and data ware house		
12		Shunji Kasaoka 【eE-0】 【eJ-0】	Emergency Medical Service System, Post-Cardiac Arrest Syndrome		
13		Shunji Kasaoka 【eE-0】 【eJ-0】	Disaster Medicine, Triage		
14		Yasuhiro Kadooka 【eE-0】 【eJ-0】	Step up Lecture for Research Ethics (1)		

15		Yasuhiro Kadooka [eE-0] [eJ-0]	Step up Lecture for Research Ethics (2)
Estimated out-of-class study time	This subject requires 90 hours of study, and the class is 30 hours. Therefore pre- and post-study on tasks equivalent to 60 hours is necessary to deepen the understanding of the class.		
Required Textbook(テキスト)	Textbooks are not specified, and handouts will be distributed by the moodle system.		
Reading List(参考文献)	Provided in the lectures.		
Enrollment Conditions(履修条件)	No prerequisite.		
Assessment Methods and Criteria(評価方法・基準)	Grading will be based on active class participation, paper summaries, and the final report. Grading will be based on the student's understanding of the course subject matter. The students' understanding will be evaluated on the basis of papers and questions related to the topics dealt with in class to be scored from grade 1 to 5. Final grades will be based on the average score of the papers and quizzes as well as participation in class discussions.		
Language Used in Instruction(使用言語)	Japanese and English		
Textbook/Material Language(教科書・資料の言語)	Combination of Japanese and English		
Course Based on Practical Work Experience(実務経験を活かした授業)	Applicable		