Lec	ture No	031938									
Subj	ject title	Introdu	ction to Epic	lemiology			Subject ID	GPb3317-L			
Inst	ructors	那波(那波 伸敏[NAWA Nobutoshi]								
Ser	mester	Sp	ring 2025	Level	1st	year	Units	2			
Cours	se by the							·			
instru	ictor with										
practical	experien	ces									
Instructo	r(s):	·									
Nobutosł	hi Nawa, A	a, Associate Professor, Department of Public Health									
Takeo Fu	ujiwara, Pi	ofessor, Department of Public Health									
Hisaaki N	lishimura,	, Assistant Professor, Department of Public Health									
Yu Par K	hin, Spec	ially Appointe	d Assistant	Professor, Department of Pu	ublic Health						
A∨ailabilit	ty in Engli	sh: All classes	are taught	in English.							
Key word	d: Epidem	iology									
Lecture	place										
Refer to	the cours	se schedule									
Course F	^D urpose a	nd Outline									
Course F	Purpose:										
This cou	rse introd	uces the prine	ciples and m	ethods used in epidemiologic	c research.						
Outline:											
Epidemio	logy is d	efined as the	study of th	ne causes and distribution of	of health-re	lated condition	ns or events in defi	ned populations, and the	e		
applicatio	on of this	knowledge to	address the	ese health problems. Throug	hout the co	urse we will pr	ovide an overview of	the knowledge and skill	ls		
required	for descri	ptive statistic	s and causa	Indices and set real of problems. Throughout the course we will provide an overview of the knowledge and skins and causal inference. In particular, we will explain the knowledge required to design and conduct epidemiological							
studies, s	such as ci	ross-sectiona	l studies, co	hort studies, case-control st	udies and R	CTs. We will a	so focus on concept	ign and conduct epidemiological pnceptual and practical issues in			
analysis,	such as c	lrawing directe	g directed acyclic graphs (DAGs), information bias, confounding, and sampling bias.								
Course C	Objective	(s)									
By the e	nd of this	course, stude	ents will be a	ble to:							
a) measu	ire health	-related cond	itions or eve	ents in defined populations							
b) unders	stand and	explain DAG	s, informatio	n bias, confounding factors a	and sampling	; bias.					
b) design	an epide	miological stu	dy to addres	s a public health issue							
c) critical	lly apprais	e published w	vork								
d) write p	beer revie	w comments									
Lecture	plan			1							
No	Date	Time	Room	Lecture theme		Stat	f Lea	aming objectives•			
							Le	aming methods•			
								Instructions			
1–3	6/23	08:50-15:00	G-Lab	Lecture: Measurement and Sa	ampling	NISHIMURA His	saaki,				
						FUJIWARA Tak	.eo,				
						NAWA Nobutos	hi,				
						YU PAR KHIN					
4	6/23	15:25-16:55	G-Lab	Group work A (field work and	group	FUJIWARA Tak	ieo,				
				presentation): Measurement a	ind	NAWA Nobutos	hi,				
				Sampling		NISHIMURA His	saaki,				
						YU PAR KHIN					

5–7	6/24	08:50-15:00	G-Lab	Lecture: Study designs and Confounder	FUJIWARA Takeo,	
					NAWA Nobutoshi,	
					NISHIMURA Hisaaki,	
					YU PAR KHIN	
8	6/24	15:25-16:55	G-Lab	Group discussion: Critical Appraisal	FUJIWARA Takeo,	Download Yamaoka (2015)
					NAWA Nobutoshi,	from WebClass and read in
					NISHIMURA Hisaaki,	advance
					YU PAR KHIN	
9	6/26	08:50-10:20	G-Lab	Exam: Writing a Review Comment	FUJIWARA Takeo,	
					NAWA Nobutoshi,	
					NISHIMURA Hisaaki,	
					YU PAR KHIN	
10	6/26	10:45-12:15	G-Lab	Comments on answers: Writing a	FUJIWARA Takeo,	
				Review Comment	NAWA Nobutoshi,	
					NISHIMURA Hisaaki,	
					YU PAR KHIN	
11-12	6/26	13:30-16:55	G-Lab	Group work B (preparation): Drafting a	FUJIWARA Takeo,	
				Research Proposal for a Public Health	NAWA Nobutoshi,	
				Issue	NISHIMURA Hisaaki,	
					YU PAR KHIN	
13–14	6/27	08:50-12:15	G-Lab	Lecture: Advanced Epidemiology to	FUJIWARA Takeo,	
				Apply for the Real World	NAWA Nobutoshi,	
					NISHIMURA Hisaaki,	
					YU PAR KHIN	
15–16	6/27	13:30-16:55	G-Lab	Group work B (group presentation):	FUJIWARA Takeo,	
				Drafting a Research Proposal for a	NAWA Nobutoshi,	
				Public Health Issue	NISHIMURA Hisaaki,	
					YU PAR KHIN	

Lecture Style

This course will consist of lectures and case-based class activities. Students will be required to write a final report.

Course Outline

Refer to the course schedule

Grading System

Grades will be based on the following elements:

1. Attendance 10%

2. Group Presentation A (sampling and measurement) 20%

3. Group Presentation B (public health action/research proposal) 30%

4. Exam (critical appraisal) 40%

Prerequisite Reading

Reading materials will be available online at the course webpage. Students are expected to have worked thorough the materials before attending

the corresponding class.

Module Unit Judgment

2 units

Reference Materials

Gordis L. Epidemiology: with student consult. 5th edition. Philadelphia: Elservier, 2013

Szklo M, Nieto EJ, Epidemiology: Beyond the Basics. 3rd edition, Jones & Bartlett Learning; 2012.

Rothman KJ, Greenland S, Lash T. Modern Epidemiology. LWW; 2012.

Important Course Requirements

For students not in the MPH course, instructor's permission is required before registering to the course. Also, students are required to have TOEFL iBT with a minimum score of 80 or IELTS with a minimum score of 6.5. Please submit an email when you receive permission through the following Forms. https://forms.office.com/r/6HkNqXk111

Note(s) to Students

Please bring your labtop for group works and exam.

Email

NAWA Nobutoshi: nawa.ioe@tmd.ac.jp