

Course title <English>	医療統計学 (コア) Fundamentals of Biostatistics		Affiliated department, Job title,Name	Graduate School of Medicine Professor,SATO TOSIYA	
Grade allotted	Professional degree students	Number of credits	2	Course offered year/period	2015/First semester
Day/period	Tue.2	Class style	Lecture	Language	Japanese
[Outline and Purpose of the Course]					
<p>While biostatistics is recognized necessary for practice and research work in public health fields, many do not like it because of troublesome mathematics and formulas. Still biostatistics is really interesting. To mediate that biostatistics is interesting, we are trying to explain biostatistical concepts without any mathematical or technical details. Preparations are not required. Come to the class, listen lectures carefully, and think with us. You will get handouts after the class and go over the class every week. To understand biostatistical concepts, it is better to go over and over. Every class starts with a review of the previous class.</p>					
[Course Goals]					
<ul style="list-style-type: none"> - Be familiar with biostatistics - Understand causal relationship - Learn various epidemiologic study and clinical trial designs - Be able to explain basic statistical concepts 					
[Course Schedule and Contents]					
<ol style="list-style-type: none"> 1. Apr 21 Control 2. Apr 28 H. pylori and stomach cancer May 5 Children's Day 3. May 12 Types of epidemiologic study designs 4. May 19 A post marketing clinical trial 5. May 26 Types of clinical trial designs 6. Jun 2 Measures of exposure and treatment effects 7. Jun 9 Concepts of statistical testing 8. Jun 16 Interpretation of confidence interval 9. Jun 23 Sample size calculations 10. Jun 30 More on statistical tests 11. Jul 7 Validity of epidemiologic studies: Cohort studies 12. Jul 14 Validity of epidemiologic studies: Case-control studies 13. Jul 21 New epidemiologic study designs 14. Jul 28 Confounding confounding 					
[Class requirement]					
None					
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医療統計学 (コア) (2)

[Method, Point of view, and Attainment levels of Evaluation]

Intermediate examination 30%

Final report 70%

[Textbook]

Distribute handouts after each class

[Reference books, etc.]

(Reference books)

Sato T 『Space Phenom Shimarisu Learning Biostatistics』 (Iwanami Science Library 114) ISBN:978-4-00-007454-7 (In Japanese)

Sato T 『Space Phenom Shimarisu Learning Statistical Tests』 (Iwanami Science Library 194) ISBN:978-4-00--29594-9 (In Japanese)

Tsubaki H, Fujita T, Sato T 『Coming Clinical Trials』 (Asakura Publisher) ISBN:978-4-254-32185-6 (In Japanese)

Rothman KJ 『Epidemiology: An Introduction』 (Oxford University Press) ISBN:978-0-195-13554-1

(Related URLs)

<http://www.kbs.med.kyoto-u.ac.jp/>

[Regarding studies out of class (preparation and review)]

Review the contents of the previous class

(Others (office hour, etc.))

*Please visit KULASIS to find out about office hours.