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 alloted	Professional degree students	Number of credits	2	Course offered year/period	2016/First semester

Day/period	Tue.2	Class style	Lecture	Language	Japanese

[Outline and Purpose of the Course]

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.

[Course Goals]

- 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]

1. Apr 12 Control
2. Apr 19 H. pylori and stomach cancer
3. Apr 26 Types of epidemiologic study designs
   May 3 Constitution Day
4. May 10 A post marketing clinical trial
5. May 17 Types of clinical trial designs
6. May 24 Measures of exposure and treatment effects
7. May 31 Concepts of statistical testing
8. Jun 7 Interpretation of confidence interval
9. Jun 14 Sample size calculations
10. Jun 21 More on statistical tests
11. Jun 28 Validity of epidemiologic studies: Cohort studies
12. Jul 5 Validity of epidemiologic studies: Case-control studies
    Jul 12 No Class
13. Jul 19 New epidemiologic study designs
14. Jul 26 Confounding confounding

Continue to 医療統計学　（コア）(2)↓↓↓

医療統計学　（コア）(2)

[Class requirement]

Classes are given in Japanese.

[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, 2nd ed.』（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.