

<b>Course title</b> <English>	交絡調整の方法 Intermediate Biostatistics	<b>Affiliated department, Job title, Name</b>	Graduate School of Medicine Associate Professor, SOZU TAKASHI Graduate School of Medicine Professor, SATO TOSIYA Ministry of Health, Labour and Welfare MORI KAZUHIKO		
<b>Grade allotted</b>	Professional degree students	<b>Number of credits</b>	2	<b>Course offered year/period</b>	2015/Second semester
<b>Day/period</b>	Tue.2	<b>Class style</b>	Lecture	<b>Language</b>	Japanese
<b>[Outline and Purpose of the Course]</b>					
<ul style="list-style-type: none"> <li>- Confounding leads to bias which prevents a causal relationship between exposure and outcome in observational studies.</li> <li>- This program is designed to provide statistical methods of adjustment for confounding such as stratified analysis, regression modeling, survival analysis and missing data.</li> <li>- This program also teaches students points to notice for study protocol and statistical analysis plan.</li> </ul>					
<b>[Course Goals]</b>					
<ul style="list-style-type: none"> <li>- Understand the concept for confounding</li> <li>- Understand the assessment of confounding by stratified analysis and regression modeling</li> <li>- Understand pros and cons for stratified analysis and regression modeling</li> <li>- Understand importance for study protocol and statistical analysis plan</li> </ul>					
<b>[Course Schedule and Contents]</b>					
<p>October 6 Review of confounding and standardization  October 13 Estimation of a common effect  October 20 Comparison of means  October 27 Sample size determination, Class exam 1  November 10 Introduction to the regression model  November 17 Logistic regression analysis  November 24 Survival analysis 1  December 1 Survival analysis 2  December 8 Handling missing data, Class exam 2  December 15 Review of pharmaceutical products and pharmacovigilance  December 22 Study protocol  January 5 Statistical analysis plan  January 12 Variable selection  January 19 Propensity score, Class exam 3  January 26 Presentation of statistical analysis plan (Discussion)</p>					
<b>[Class requirement]</b>					
<p>Elective</p> <p>All students in the course are expected to take "Fundamentals of Biostatistics"</p>					
Continue to 交絡調整の方法(2) ↓ ↓ ↓					

交絡調整の方法(2)

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

Class examinations - 3 times

**[Textbook]**

『Distributed materials in "Fundamentals of Biostatistics"』

**[Reference books, etc.]**

**(Reference books)**

Rothman KJ, Greenland S, Lash TL. 『Modern Epidemiology, 3rd ed.』 (Lippincott Williams & Wilkins, 2008)

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

Fundamentals of Biostatistics

**(Others (office hour, etc.))**

\*Please visit KULASIS to find out about office hours.