Course title <English>	Health Data Processing Laboratory	Affiliated department, Job title,Name	Graduate School of Medicine Professor,SATO TOSIYA Graduate School of Medicine Assistant Professor,YONEMOTO NAOHIRO Ministry of Health, Labour and Welfare MORI KAZUHIKO Pharmaceuticals and Medical Devices Agency ANDO YUKI Kobe University OMORI TAKASHI

Target year	Professional degree students	Number of credits	2	Course offered year/period	2018/Second semester
Day/period	Tue.3,4	Class style	Practical training	Language	Japanese

[Outline and Purpose of the Course]

This course provides students technical issues to develop a statistical analysis plan and a study protocol.
This course provides practice to review new pharmaceutical products.
At the end of this program, students develop their statistical analysis plans for their master's thesis and give presentation for them.

[Course Goals]

- Understand study guidelines
- Apply stratified analysis and regression models using JMP statistical software and interpret results
- Be familiar with review of submitted documents for approval on new pharmaceutical products
- Develop analysis plans for master's theses

[Course Schedule and Contents]

1. October 2 Study guidelines 1
 2. October 9 Study guidelines 2
 3. October 16 Study guidelines 3 (Presentation)
 4. October 23 Stratified analysis
 5. October 30 Comparison of means
 6. November 6 Regression analysis
 7. November 13 Generalized linear models
 8. November 20 Survival analysis
 9. November 27 Missing data analysis
10. December 4 Review practice for new pharmaceutical products 1
11. December 11 Review practice for new pharmaceutical products 2
12. December 18 Review practice for new pharmaceutical products 3 (Presentation, 14:45-18:00)
13. January 8 Developing statistical analysis plan 1
14. January 15 Developing statistical analysis plan 2
15. January 22 Statistical analysis plan presentations

[Class requirement]

All students in the course were expected to take "Introduction to Statistical Computing."

(2)

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

Reports and presentations

[Textbook]

Distributed materials in "Fundamentals of Biostatistics"
Distributed materials in "Introduction to Statistical Computing"
Distributed materials in "Intermediate Biostatistics"

[Reference books, etc.]

Reference books

You must download and install the statistical software JMP on your own computer. Please see http://www.med.kyoto-u.ac.jp/software/JMP/.

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

Introduction to Statistical Computing

Others (office hour, etc.)

*Please visit KULASIS to find out about office hours.