### Course title

**<English>**

Observational Epidemiology

**Affiliated department, Job title, Name**

Graduate School of Medicine
Professor, FUKUHARA SHUNICHI

### Target year

Professional degree students

### Number of credits

1

### Course offered year/period

2017/Intensive, First semester

### Day/period

Intensive

### Class style

Lecture

### Language

Japanese and English

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### [Outline and Purpose of the Course]

With current movement on data-base research, the importance of observational epidemiology has been increasing. This course provides learning opportunity to learn basic theory and knowledge of observational epidemiology. This course does not cover interventional research.

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### [Course Goals]

Understand theory and methods in the following items;

1. Select the best research design taxonomy to answer RQ
2. Develop and validate scales to measure key variables
3. Design and conduct survey research
4. Basics in propensity score

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### [Course Schedule and Contents]

1. June 9 Potential of observational epidemiology
2. June 16 Taxonomy of observational epidemiology research
3. June 23 (1st period) Design and practice of survey research
4. June 23 (2nd period) Design and practice of survey research
5. July 7 Theory and practice of propensity score method
6. July 21 (1st period) Development and validation of measurement and scale (basics)
7. July 21 (2nd period) Development and validation of measurement and scale (advance)
8. July 28 Examination

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### [Class requirement]

- MPH, MCR Required
- You need to take or had taken + +
  - "Epidemiology (MPH core)" or "Epidemiology (MPH core)"
  - "Epidemiology"

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

Attendance 40%, Examination 60%

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Continue to 觀察疫学研究 (2) [2] [2]
<table>
<thead>
<tr>
<th>[Textbook]</th>
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<td>Instructed during class</td>
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<th>[Reference books, etc.]</th>
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<tbody>
<tr>
<td>(Reference books)</td>
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<tr>
<td>Fukuhara S.  &quot;Guidepost for clinical research: Learning study design by 7 steps&quot; (<a href="http://www.i-hope.jp/publication">www.i-hope.jp/publication</a>)</td>
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<tr>
<td>Hulley S.  &quot;Designing Clinical Research 2nd ed.&quot; (William &amp; Wilkins)</td>
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<td>Takegami M, Fukuhara S. &quot;Measuring and applying QOL.&quot; (<a href="http://www.i-hope.jp/publication">www.i-hope.jp/publication</a>)</td>
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<th>[Regarding studies out of class (preparation and review)]</th>
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<td>· Didactic lectures</td>
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<td>· Discussion at each lecture</td>
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<th>(Others (office hour, etc.))</th>
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<td><em>Please visit KULASIS to find out about office hours.</em></td>
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