

## Introduction to social medicine, epidemiology and biostatistics

2 units (selection) 1st-year(2nd semester)

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Aiko Yamauchi · PROFESSOR / INSTITUTE OF HEALTH BIOSCIENCES, Tetsuya Tanioka · PROFESSOR / HEALTH SCIENCES, Akira Tokumura · PROFESSOR / INSTITUTE OF HEALTH BIOSCIENCES

Daisuke Hinode · PROFESSOR / INSTITUTE OF HEALTH BIOSCIENCES, Hiroki Moriguchi · PROFESSOR / INSTITUTE OF HEALTH BIOSCIENCES, Hiroaki Yanagawa · ASSOCIATE PROFESSOR / UNIVERSITY HOSPITAL

**Target)** 1. Clinical trial as a tool to establish clinical evidence 2. The role of the IT in the medical treatment and the hospital management are outlined. 3. Outline analytical skills for clarifying the phenomenon about Mental Health and Welfare. 4. Outline epidemiology and analytical methods for oral health promotion and/or oral disease prevention. 6. Outline damages from medicines and its etiology and prevention. 7. Outline designing of surveys and statistical analysis of data for writing a thesis.

**Outline)** 1) Principles and practice of clinical trial from scientific and ethical viewpoint will be reviewed. 2) The usage of IT and the method of the management in the university hospital are outlined. 3) We will explain the statistical method for clarifying the feature of phenomenon based on previous work in Mental Health and Welfare. 4) We will explain the etiology of oral disease and its prevention based on the evidence of oral sciences. 6) Instruct background and etiology of several examples of damages from medicines and discuss possible prevention of the damages. 7) Basic aspects of statistical analysis, such as type of data and appropriate treatment of data, and meaning of hypothesis testing, will be summarized. In addition, practice of data analysis will be done using SPSS.

**Notice)** It is possible to take a lesson by e-learning.

**Goal)** The goal is to deepen one's understanding of contents presented during lectures, regarding social medicine, pharmaceutical science and dentistry.

### Schedule)

1. Basic handling and statistical analysis of data for article making (担当者: Hirokazu Uemura)
2. Basic handling and statistical analysis of data for article making (担当者: Hirokazu Uemura)
3. Practice of epidemiology and statistical data analysis for writing a thesis (担当者: Kokichi Arisawa)
4. Practice of epidemiology and statistical data analysis for writing a thesis (担当者: Kokichi Arisawa)
5. Principles and practice of clinical trial (担当者: Hiroaki Yanagawa)
6. Principles and practice of clinical trial (担当者: Hiroaki Yanagawa)

7. The role of IT in a hospital (担当者: Hiroki Moriguchi)
8. The role of IT in a hospital (担当者: Hiroki Moriguchi)
9. Statistical procedure for analyzing issues facing the Mental Health and Welfare (1) (担当者: Shu-ichi Ueno)
10. Statistical procedure for analyzing issues facing the Mental Health and Welfare (2) (担当者: Tetsuya Tanioka)
11. Epidemiology of dental caries and periodontal disease, and the relationship between oral disease and systemic disease (担当者: Hiro-o Ito)
12. Epidemiology of dental caries and periodontal disease, and the relationship between oral disease and systemic disease (担当者: Daisuke Hinode)
13. 医薬品の情報管理, 医薬品の安全対策 (担当者: 木原 勝)
14. 医薬品の情報管理, 医薬品の安全対策 (担当者: 木原 勝)
15. What is damages from medicines? Why did the damages occurred? How to prevent the damages? (担当者: Akira Tokumura)
16. What is the damages from medicines? Why did the damages occurred? How to prevent the damages? (担当者: Akira Tokumura)

**Evaluation Criteria)** Reports should be submitted on questions presented during lectures. Grades are determined by summing points from all instructors.

**Re-evaluation)** In principle, there is no reexaminations.

**Textbook)** Teaching materials designated by each instructor will be used.

**Contents)** <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=218231>

### Contact)

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(Office Hour: Please contact each instructor by an e-mail.)

**Note)** Different classrooms may be used according instructors.