

# HELSTA 2018

Trond Riise

## READING LIST

### **Bok A (norsk): Statistiske metoder i helsefag – Odd O. Aalen med kolleger (2006)**

- PENSUM VIL BLI GJENNOMGÅTT PÅ FORELESNINGENE OG GRUPPEØVELSENE. DENNE LISTEN ER ANBEFALT LESNING.
- Enkelte avsnitt er merket «Matematisk avsnitt». Disse kan studentene hoppe over.
- Det forventes ikke at studentene skal kunne alle formlene som presenteres. Generelt vil nødvendige formler oppgis på eksamen. Studentene må selvsagt kunne benytte disse.
- Pensum kan grovt sett deles inn i tre deler: Bakgrunnsstoff, hypotesetesting og konfidensintervaller, og regresjon.
  
- **I: Bakgrunnsstoff**
- Dette er nødvendig for å kunne forstå resten av pensum.
  - Kapittel 1
    - 1.1-1.6
  - Kapittel 2
    - Hele
  
- **II: Hypotesetesting og konfidensintervaller**
- Den viktigste delen av pensum
  - Kapittel 4
    - Hele
  - Kapittel 5
    - Hele
  - Kapittel 6
    - Hele
  - Kapittel 8
    - 8.1-8.7
  - Kapittel 9
    - 9.6
  
- **III: Regresjon**
- Denne delen vil bli undervist som et supplement til del II.
- Det forventes kun at studentene skal ha en konseptuell forståelse av denne delen.
- Det blir lite fokus på det matematiske.
  - Kapittel 11
    - 11.1-11.4
  - Kapittel 12
    - 12.1-12.3
  - Kapittel 13
    - 13.1-13.3

## **Book B (English): Medical statistics – Kirkwood and Sterne (copy from 2003)**

- THE SYLLABUS IS WHAT IS TAUGHT DURING LECTURES AND GROUP EXERCISES. THIS IS A LIST OF RECOMMENDED READING.

- Students are not required to know all formulas. Generally, necessary formulas will be written on the exam. Students are of course expected to be able to use the formulas.
- Students are expected to know concepts that are necessary to understand the syllabus, even if such concepts are presented in chapters that are not on this list.
- The syllabus can roughly be divided into three parts: Background, hypothesis testing and confidence intervals, and regression analysis.

### **- I: Background**

- Necessary in order to understand the rest of the syllabus

- o Chapter 2  
All
- o Chapter 3  
All
- o Chapter 4  
All
- o Chapter 14  
14.1-14.3

### **- II: Hypothesis testing and confidence intervals**

- The most important part of the syllabus

- o Chapter 5  
All
- o Chapter 6  
All
- o Chapter 7  
All
- o Chapter 8  
All
- o Chapter 10  
10.3
- o Chapter 15  
15.1-15.6
- o Chapter 16  
16.1-16.6
- o Chapter 21  
21.1-21.3
- o Chapter 35  
35.1-35.3

### **- III: Regression**

- This part is taught as a supplement to part II.

- Students are only expected to have a conceptual understanding of this part.

- We do not focus on the mathematics.

- o Chapter 10  
10.1-10.2
- o Chapter 11  
11.1-11.3

- Chapter 19  
19.1-19.3
- Chapter 26  
26.1-26.3

**Useful youtube-videos:**

Lara Smith (very basic, does not cover the entire syllabus):

<http://www.youtube.com/watch?v=dalb2VF1i3M>

<http://www.youtube.com/watch?v=vcTn57dLOHc>

<http://www.youtube.com/watch?v=rFNWDLSeaiU>

<http://www.youtube.com/watch?v=p8zDQ6BOh7E>

<http://www.youtube.com/watch?v=NZHPVbRbCAY>

<http://www.youtube.com/watch?v=b13Syg1lhaU>

<http://www.youtube.com/watch?v=JgdiuXDU2rE>

<http://www.youtube.com/watch?v=oFCdA43T0tA>

<http://www.youtube.com/watch?v=IChd2tzDPhw>

<http://www.youtube.com/watch?v=Hvv63NxVNdk>

<http://www.youtube.com/watch?v=CzgzjGz2SIQ>

<http://www.youtube.com/watch?v=lzIDxWGJPss>

<http://www.youtube.com/watch?v=YGpgEtTrB0c>

Kahn academy playlist on statistics (technical, more or less covers the entire syllabus):

[http://www.youtube.com/watch?v=uhxtUt\\_-GyM&list=PL4C863861E3B2E380](http://www.youtube.com/watch?v=uhxtUt_-GyM&list=PL4C863861E3B2E380)