

2022 Biostatistics I 4FH083

Week I – Empirical distribution of data (Nov 7-Nov 11)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Nov 7	Introducing the course + Roll call NO	Supervised lab VA
Tuesday Nov 8	Introducing Stata software NO	Stata Coding + Supervised lab RT
Wednesday Nov 9	Summary statistics and graphical presentation for continuous variables. NO	Supervised lab CC
Thursday Nov 10	Contingency tables and graphical presentation of categorical variables. NO	Unsupervised lab
Friday Nov 11	Biostat Booster SP On-line	Independent study

Week II – Theoretical probability distributions (Nov 14-Nov 18)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Nov 14	Weekly review – Group I Basic probability theory Diagnostic tests. NO	Supervised lab VA
Tuesday Nov 15	Binomial distribution Poisson distribution HS	Stata Coding + Supervised lab RT
Wednesday Nov 16	Normal distribution HS	Supervised lab CC
Thursday Nov 17	Central Limit Theorem HS	Unsupervised lab
Friday Nov 18	Biostat Booster SP On-line	Independent study

Week III – Statistical inference on one population (Nov 21-Nov 25)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Nov 21	Weekly review Confidence intervals for population mean and proportion. NO	Supervised lab VA
Tuesday Nov 22	Testing of hypothesis. HS	Stata Coding + Supervised lab RT
Wednesday Nov 23	Error probabilities. HS	Supervised lab CC
Thursday Nov 24	Home assignment Stata	Home assignment Stata
Friday Nov 25	Biostat Booster SP On-line	Independent study

Week IV – Statistical inference on two or more populations (Nov 28-Dec 2)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Nov 28	3rd Week Roll Call Weekly review Comparison of two means (t -test) NO	Supervised lab VA
Tuesday Nov 29	Comparison of more than two means (ANOVA) NO	Supervised lab RT
Wednesday Nov 30	Comparison of proportions (z -test, Chi-Square test) NO	Supervised lab CC
Thursday Dec 1	Non-parametric tests. NO	Unsupervised lab
Friday Dec 2	Biostat Booster SP On-line	Independent study

Week V – Correlation and tables for epidemiologists (Dec 5-Dec 9)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Dec 5	Weekly review Correlation NO	Supervised lab VA
Tuesday Dec 6	Odds Ratios NO	Supervised lab RT
Wednesday Dec 7	Independent study	Independent study
Thursday Dec 8	Independent study	Independent study
Friday Dec 9	Final Exam	Final Exam



A red cell indicates compulsory attendance in class (roll call).

Instructors

NO – Nicola Orsini, GPH, KI
 HS - Hugo Sjöqvist, GPH, KI
 VA – Viktor Ahlqvist, GPH, KI
 RT – Robert Thiesmeier, GPH, KI
 CC – Charilaos Chourpiliadis, IMM, KI
 SP – Stephanie Pitt, IMM, KI

Course Director

Orsini Nicola, Principle Researcher, Associate Professor of Medical Statistics, GPH, KI

Acronyms

IMM – Institute Environmental Medicine
 GPH – Department of Global Public Health
 KI – Karolinska Institutet

Lecture rooms

Karolina - <https://medarbetare.ki.se/karolina>