2024 Biostatistics II 4FH087

Week I – Linear regression (February 19- February 23)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Feb 19	**9:00-12:00 Roll call** 10:00-12:00 Introducing the course and linear regression models (NO)	13-16 Collaborative groups (SS)
Tuesday Feb 20	9:00-10:00 Study time 10:00-12:00 Univariable linear model with categorical predictor (HS)	13-16 Collaborative groups (CC)
Wednesday Feb 21	9:00-10:00 Study time 10:00-12:00 Multivariable linear model (HS)	13-16 Collaborative groups (JL)
Thursday Feb 22	9:00-10:00 Study time 10:00-12:00 Multivariable linear model (HS)	**DICE** (RT, HS)
Friday Feb 23	Independent study	Independent study

Week II – Logistic regression (February 26 - March 1)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday February 26	**9:00-10:00 Weekly review Group I** 10:00-12:00 Introduction to logistic regression (RT)	13-16 Collaborative groups (SS)
Tuesday February 27	9:00-10:00 Study time 10:00-12:00 Univariable logistic model (RT)	13-16 Collaborative groups (CC)
Wednesday February 28	9:00-10:00 Study time 10:00-12:00 Multivariable logistic model (RT)	13-16 Collaborative groups (JL)
Thursday February 29	9:00-10:00 Study time 10:00-12:00 Multivariable logistic model (RT)	**DICE** (RT, JL)
Friday March 1	Independent study	Independent study

Week III – Survival analysis (March 4-March 8)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday March 4	**Weekly review Group III Roll call** Introduction to survival analysis (NO)	13-16 Collaborative groups (SS)
Tuesday March 5	9:00-10:00 Study time 10:00-12:00 Non-parametric and parametric survival model (NO)	13-16 Collaborative groups (CC)
Wednesday March 6	9:00-10:00 Study time 10:00-12:00 Semi-parametric survival model (NO)	13-16 Collaborative groups (JL)
Thursday March 7	9:00-10:00 Study time 10:00-12:00 Semi-parametric survival model (NO)	**DICE** (RT, NO)
Friday March 8	Independent study	Independent study

Week IV – Advanced modelling topics (March 11 - March 15)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday March 11	9:00-10:00 Weekly review Group II Roll Call + Mid-Course Evaluation 10:00-12:00 Multivariable modelling (JL)	13-16 Collaborative groups (SS)
Tuesday March 12	9:00-10:00 Study time 10:00-12:00 Non-linear mechanism (JL)	13-16 Collaborative groups (CC)
Wednesday March 13	9:00-10:00 Study time 10:00-12:00 Interaction mechanism (JL)	13-16 Collaborative groups (JL)
Thursday March 14	9:00-10:00 Study time 10:00-12:00 Missing mechanism (RT)	**DICE** (RT, JL)
Friday March 15	Independent study	Independent study

Week V – Review and get ready for final exam (March 18-March 22)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday March 18	9:00-10:00 Weekly review Group IV 10:00-12:00 Get ready for the final exam (NO)	13:00-16:00 Get ready for the final exam (NO)
Tuesday March 19	Independent study	Independent study
Wednesday March 29	Independent study	Independent study
Thursday March 21	Independent study	Independent study
Friday March 22	**Final exam**	

Location
Lectures will be in Karolina (http://ki.se/medarbetare/karolina).

Instructors
NO – Nicola Orsini, GPH, KI
HS - Hugo Sjöqvist, GPH, KI
RT – Robert Thiesmeier, GPH, KI
CC – Charilaos Chourpiliadis, IMM, KI
JL - Javier Lauro, IMM, KI
SS - Shuyun Chen – IMM, KI

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

Acronyms
IMM – Institute of Environmental Medicine
GPH – Department of Global Public Health
KI – Karolinska Institutet
DICE – Design, Interpret, Compute, Experiment. Detailed description of this activity is provided on Canvas. It is a one-day group activity with an opportunity to accumulate points during the course. Participation is not mandatory but highly recommended.