2023 Biostatistics II 4FH087

Week I – Linear regression (February 20- February 24)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday Feb 20	Roll call Introducing the course and linear regression models (NO)	Supervised lab (DA)
Tuesday Feb 21	Univariable linear model with categorical predictor (HS)	Supervised lab (CC)
Wednesday Feb 22	Multivariable linear model (HS)	Unsupervised lab
Thursday Feb 23	DICE (RT)	DICE (RT)
Friday Feb 24	Independent study	Independent study

Week II – Logistic regression (February 27 - March 3)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday February 27	Weekly review Group I Introduction to logistic regression (VA)	Supervised lab (DA)
Tuesday February 28	Univariable logistic model (VA)	Supervised lab (CC)
Wednesday March 1	Multivariable logistic model (VA)	Unsupervised lab
Thursday March 2	DICE (RT)	DICE (RT)
Friday March 3	Independent study	Independent study

Week III – Dose-response and Interaction analysis (March 6 - March 10)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday March 6	Weekly review Group II Roll Call + Mid-Course Evaluation Multivariable modelling (NO)	Supervised lab (DA)
Tuesday March 7	Dose-response analysis (NO)	Supervised lab (CC)
Wednesday March 8	Interaction analysis (NO)	Unsupervised lab
Thursday March 9	DICE (RT)	DICE (RT)
Friday March 10	Independent study	Independent study

Week IV – Survival analysis (March 13-March 17)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday March 13	Weekly review Group III Roll call Introduction to survival analysis (NO)	Supervised lab (DA)
Tuesday March 14	Non-parametric and parametric survival model (ER)	Supervised lab (NO)
Wednesday March 15	Semi-parametric survival model (ER)	Unsupervised lab
Thursday March 16	DICE (RT)	DICE (RT)
Friday March 17	Independent study	Independent study

Week V – Survival analysis (March 20-March 24)

Day	Morning 9:00-12:00	Afternoon 13:00-16:00
Monday March 20	**Weekly review Group IV** Multivariable survival models (NO)	Supervised lab (DA)
Tuesday March 21	Independent study	Independent study
Wednesday March 22	Independent study	Independent study
Thursday March 23	Independent study	Independent study
Friday March 24	**Final exam**	

A red cell indicates compulsory attendance in class.

Location
Mornings and afternoons will be in Karolina (http://ki.se/medarbetare/karolina).

Instructors
NO – Nicola Orsini, GPH, KI
HS - Hugo Sjöqvist, GPH, KI
VA – Viktor Ahlqvist, GPH, KI
DA – Diego Yacaman-Mendez, GPH, KI
RT – Robert Thiesmeier, GPH, KI
CC – Charilaos Chourpiliadis, IMM, KI
ER – Elena Rafetti, GPH, KI

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

Acronyms
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.