
Analysis of social determinants of health and health inequities – a multi country event on approaches and policy.

**P.J. Safarik University, Moyzesova 16, Kosice
Building of Faculty of Science dean office,
Room D2 on first floor.
Košice, 12-17 October 2009**

ANNOTATED PROGRAMME AND AGENDA

DAY 1: Monday 12th October 2009

- 13.00 – 14.30 **Variables**
*Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences,
P.J. Safarik University in Kosice, Slovakia*
- Introduction to medical data. Types of data. Notion of variables and cases. Measurement of data, uncertainty of measurement. Different types of errors in data, missing values. Types of missingness. Characteristics of data, notion of statistic.*
- 14.30 – 15.15 **Tea break devoted to reflections and discussion**
Facilitated by Mrs. Christine Brown - WHO Venice Office
- 15.15 – 16.30 **Study designs**
*Dr. Andrea Madarasová Gecková, Mr. Peter Kolarčík - KISH,
Faculty of Medicine, P.J. Safarik University in Kosice, Slovakia*
- Introduction of the main types of study designs in epidemiological research (cross-sectional studies, cohort studies, case-control studies, interventional studies, ecological studies).*

DAY 2: Tuesday 13th October 2009

- 13.00 – 14.30 **Measures of effect**
*Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences,
P.J. Safarik University in Kosice, Slovakia*
- Different types of frequencies. Prevalence, incidence rate, risk, mortality rates. Contingency tables and measures of association. Relative risk, odds ratio. Average, median, and mode.*
- 14.30 – 15.15 **Tea break devoted to reflections and discussion**
Facilitated by Mrs. Christine Brown - WHO Venice Office
- 15.15 – 16.30 **Confounding and interactions**
*Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences,
P.J. Safarik University in Kosice, Slovakia*
- Type I and II errors. Confounders and Simpson's paradox. How to discover confounding. Methods which prevent or remove confounding. Interaction of effects.*

DAY 3: Wednesday 14th October 2009

- 13.00 – 14.30 **Stratified analyses**
Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences, P.J. Safarik University in Kosice, Slovakia
- Simple stratification. Mantel-Haenszel statistic. Confounders and interactions in stratified analyses. More complex stratification.*
- 14.30 – 15.15 **Tea break devoted to reflections and discussion**
Facilitated by Mrs. Christine Brown - WHO Venice Office
- 15.15 – 16.30 **Errors and bias**
Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences, P.J. Safarik University in Kosice, Slovakia
- Most common sources of errors in medical data. Selection bias, misclassification and information bias. Estimation of bias.*

DAY 4: Thursday 15th October 2009

- 13.00 – 14.30 **Area based analyses in health and deprivation**
Prof. dr. Sijmen A. Reijneveld - University Medical Centre Groningen, University of Groningen, The Netherlands Moyzesova 16, room D2
- 14.30 – 15.15 **Tea break devoted to reflections and discussion**
Facilitated by Mrs. Christine Brown - WHO Venice Office
- 15.15 – 16.30 **Logistic regression**
Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences, P.J. Safarik University in Kosice, Slovakia
- Log-odds and logistic regression model. Test of association. Comparing of 3 or more groups. Quantitative explanatory variable.*

DAY 5: Friday 16th October 2009

- 13.00 – 14.30 **Mutiple Logistic regression, interactions**
Assoc. prof. Ivan Žežula, Dr. Daniel Klein - Faculty of Sciences, P.J. Safarik University in Kosice, Slovakia
- Logistic regression with several explanatory variables. Logistic regression and confounding. Composite effects and interactions. Hypotheses testing and model building.*
- 14.30 – 15.15 **Tea break devoted to summary, evaluation**
Facilitated by Mrs. Christine Brown - WHO Venice Office
- 15.15 – 16.00 **Closing**