

Epidemiologic Methods

Principal Lecturers: Professor Dankmar Böhning (DB), Dr Fazil Baksh (FB) and Mr. James Gallagher (JG)

Organizers: Professor Fikret Ikiz, Dr Mehmet Orman, Dr Timur Köse

Day 1: Monday, 30 May 2011

8.45 welcome and opening ceremony

9.00-10.30

L1: Introduction to Epidemiology and Study types: cross-sectional, cohort and longitudinal, case-control and retrospective, matched case control **(DB)**

L2: Measures of disease occurrence: prevalence, incidence, incidence density, morbidity and mortality **(DB)**

10.30-11.00 Break

11.00-11.45

P1: Introduction to STATA for epidemiological applications **(JG, DB)**

11.45-12.30

L3: Direct standardization with examples in STATA **(DB)**

12.30-14.00 Lunch

14.00 -15.00

L4: Indirect standardization with examples in STATA **(FB)**

15.00-15.45

L5: Measures of effect: risk difference and relative risk difference with examples in STATA **(FB)**

15.45-16.15 Break

16.15-17.00

L6: Measures of effect: risk ratio and odds ratio with examples in STATA (FB)

17.00 End of Day 1 and Dinner

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Day 2: Tuesday, 31 May 2011

9.00-10.30

L7: Confounding and effect modification: Mantel-Haenszel estimation, testing effect homogeneity (DB)

10.30-11.00 Break

11.00-11.45

P2: Case studies on confounding and MH estimation using STATA (DB)

11.45-12.30

L8: Modelling with covariates: Introduction to general regression (JG)

12.30-14.00 Lunch

14.00-15.30

L9: Modelling with covariates: logistic regression (FB)

L10: Poisson regression (JG)

15.30-16.00 Break

16.00-17.00

P3: Modelling with covariates: Case studies and examples (DB,FB,JG)

17.00 Closing ceremony and Dinner