

Summer Institute of Advanced Epidemiology and Preventive Medicine

Intermediate Observational Epidemiology – Summer Course 2012 Outline

Sunday – Thursday (July 29th - August 2nd)

08:30 to 13:00

Room 927 (9th floor, Sackler Building, Faculty of Medicine)

Course Instructor: Prof. Moyses Szklo

Course Assistants: Dr. Liz Temkin – lizt@tlvmc.gov.il, Mr. Michael Brik – michael.brik@gmail.com

	29.07.12	30.07.12	31.07.12	01.08.12	02.08.12
8:30-10:00	Study designs: birth cohort and ecologic studies.	Measures of disease frequency: cumulative incidence (survival analysis) and rates/densities (person-year analysis).	Selection and information bias. Sensitivity and specificity as a framework to understand misclassification.	Additive and multiplicative models. Quantitative and qualitative interaction. Public health interaction.	Epidemiologic issues in the interface with public health - part I
10:00-10:30	Break	Break	Break	Break	Break
10:30-12:00	Study designs: cohort and case-control studies, case-cohort and nested case-control studies.	Measures of association in cohort and case-control studies. The parameter estimated by the odds ratio as a function of the control group's sampling frame.	Interaction: definitions and evaluation strategies.	Confounding. Positive and negative confounding. Kaplan-Meyer adjustment technique.	Epidemiologic issues in the interface with public health - part II
12:00-12:15	Break	Break	Break	Break	Break
12:15-13:00	Exercise on study designs	Exercise on odds ratios and relative risks	Exercise on misclassification	Exercise on interaction	Questions and Wrap Up

Course Textbook: Epidemiology: Beyond the Basics (2nd Ed), by Moyses Szklo and F Javier Nieto. Jones & Bartlett Publishers, 2006.

Handouts of the relevant chapters from the book will be provided to students at course registration, on Sunday July 29, 2012

For those who wish to receive academic credit for the course, the final exam will take place on Friday, August 3rd, at 09:00-11:00.