Summer Institute of Advanced Epidemiology and Preventive Medicine

Reproductive Epidemiology – sociodemographic, environmental and clinical determinants

1. Course Details

Course Format: Lectures and discussions

Language: English

Number of Academic Credits: 4

Summer semester 2024- 11-16.8.2024

Target population: Graduate students (local & international) and faculty members at the School of Public Health, Faculty of Medical and Health Sciences and throughout the campus.

2. Couse Teaching Staff:

Prof. Pam Factor-Litvak - Vice Chair of Epidemiology, Mailman School of Public Health, Columbia University, New York, NY, USA

Prof. Shelley Ehrlich - Division of Biostatistics and Epidemiology Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Prof. Liat Lerner - Head, School of Public Health, Faculty of Medicine, Tel Aviv University, Israel

3. Course Description

The aim of the course is to acquire knowledge and skills regarding designing, conducting and analyzing epidemiological research in the scopes of reproduction, infertility and maternal and child health. In addition, up to date research in the field of reproductive epidemiology including sociodemographic, environmental and clinical determinants will be explored and discussed.

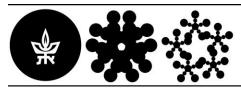
The outcomes of the course will include the ability to critically review epidemiological studies in women and children's health research and implement the results in public health policy.



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4. Course Specific Topics

Sunday, August 11 th	Topic- Foundations	Lecturer
8:30-16:30		
08:30-10:00	Introduction- Women and	Prof. Lerner
	Children's Health	
10:30-12:00	Female and Male Biology	Prof. Lerner
12:45- 14:15	Introduction -Reproductive	Prof. Litvak- Factor
	Epidemiology	
14:30-16:00	Methodology – preferred	Prof. Ehrlich
	study designs – strengths	
	and limitations	
Monday, August 12 th	Topic- Outcome	
8:30-16:30	Terminology	
08:30-10:00	Pregnancy complications	Prof. Ehrlich
10:30-12:00	Infant mortality and	Prof. Litvak- Factor
	morbidity	
12:45- 14:15	Maternal mortality	Prof. Lerner
14:30-16:00	Evaluation of an article	Prof. Litvak- Factor and
		Prof. Lerner
Tuesday, August 13th	University closed	
Wednesday, August 14 th	Topic – Environmental	
8:30-16:00	Exposures	
08:30-10:00	Socio-demographics and	Prof. Lerner Liat
	inequalities/disparities	
10:30-12:00	Pesticides	Prof. Litvak-Factor
12:45- 14:15	EDC	Prof. Ehrlich
14:30-16:00	Air pollution	Prof. Litvak-Factor



School of Public HealthFaculty of Medical & Health Sciences Tel Aviv University

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Thursday, August 15 th	Topic - Infertility	
8:30 – 16:00		
08:30-10:00	Types of infertility	Prof. Ehrlich
10:30-12:00	Infertility treatments	Prof. Lerner
12:45- 14:15	Global policies regarding	Prof. Litvak-Factor and Prof.
	infertility	Lerner
14:30-16:00	New approaches -	Prof. Lauren Patrick
	Exposomics	
	Final project preparation	
Friday, August 16 th	Lifespan outcomes	
8:30 - 13:30		
08:30-10:30	Short term outcomes of	Prof. Litvak-Factor, Prof.
	infertility treatments	Ehrlich, Prof. Lerner
	(Congenital malformations)	
	- Class Discussion	
11:30-13:30	Long term outcomes of	Prof. Litvak-Factor, Prof.
	infertility treatments	Ehrlich, Prof. Lerner
	(cancer)-Class Discussion	
	Final project preparation	

Grade:

30% participation in class discussions

70% Final Project