

Summer Institute of Advanced Epidemiology & Preventive Medicine

Course on "Food Security and Public Health"

July 21st - July 26th, 2013

08:30-13:00

Instructors: Dorit Nitzan (WHO & TAU), Hilde Kruse (WHO) and Jeremy Sobel (CDC)

[TAU - Tel Aviv University, WHO – World Health Organization, CDC – US Centers for Disease Control]

<u>Day</u>	<u>Time</u>	<u>Lecturer</u>	<u>Topic</u>
Sun 21.7	08:30-10:00	Dorit Nitzan	Course Introduction Food and Nutrition Security, Safety and Public Health
	10:30-12:00	Dorit Nitzan	Globalization of food systems in developing countries: impact on food and nutrition security <ul style="list-style-type: none"> • Understand of the influence of globalization and urbanization on food systems (food supply, marketing and distribution) in developing countries • Discuss the effects of these changes on the market, food consumption patterns and on nutrition and health outcomes. • Highlight the cause and effect
	12:15-13:00	Dorit Nitzan	Scaling up Nutrition and Health activities <ul style="list-style-type: none"> • Discuss the “double burden” of nutrition-related diseases and highlight the push-and-pull factors • Different approaches to counteract obesity
Mon 22.7	08:30-10:00	Dorit Nitzan	An appetizer to Nutrition Epidemiology
	10:30-12:00	Jeremy Sobel	Foodborne disease in the 21 Century: overview of dynamics of infectious foodborne illness, including industrialization, globalization, antimicrobial resistance pressures, population mobility, aging, and dietary changes.
	12:15-13:00	Jeremy Sobel Dani Cohen	Surveillance of foodborne diseases. Examples: US FoodNet /Middle East Consortium for Infectious Diseases Surveillance (MECIDS)
Tue 23.7	08:30-10:00	Hilde Kruse	Food safety challenges in a globalized world (addressing briefly globalization, trade implications, food safety systems and need for intersectoral cooperation and whole-food chain approaches, Codex, IHR/Infosan, complicating factors (climate change, AMR);
	10:30-12:00	Hilde Kruse	Chemical risks to food safety
	12:15-13:00	Jeremy Sobel	Salmonella as a model of a perennially emerging foodborne pathogen;

Wed 24.7	08:30-10:00	Jeremy Sobel	E. coli O157:H7 as a model of an emerging foodborne pathogen
	10:30-12:00	Hilde Kruse	Antimicrobial resistance from a food safety perspective (Addressing public health consequence from antibiotic use in food animals, main pathogens concerned, need for surveillance of resistance and antibiotic usage, need for regulation and enforcement of antibiotic use in food animals, awareness raising issues)
	12:15-13:00	Jeremy Sobel	Exercise: Case-study of descriptive epidemiology, hypothesis generation and epidemiologic study
Thu 25.7	08:30-10:00	Hilde Kruse	Food safety risk communication (Addressing food safety information/communication to the public and target groups, general issues (based upon WHO 5 keys to safer food) and specific issues (e.g botulism prevention), communication in times of food safety emergencies/crises
	10:30-12:00	Jeremy Sobel	Exercise: Adaptation of surveillance data and epidemiologic study design to foodborne outbreak investigation
	12:15-13:00	Jeremy Sobel	Scientific literature: Discussion of two published papers on foodborne disease surveillance and outbreak investigation; Course wrap up
Fri, 26.7	Final exam		