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| logoUNIBA_CMYK | School of Medicine  Bari English Medical Curriculum |

**Hygiene**

Five - year course

Silvio Tafuri, MD, Ph.D.- Osvalda De Giglio, Ph.D.

**Epidemiology**

* Populations and considering illness in populations
* Use of routinely available data in epidemiology
* Measures of disease
* Direct and indirect standardisation, years of life lost, life expectancy and DALYS
* Absolute and relative measures of risk
* Causality, bias and confounding
* Study design including cross-sectional, case control, cohort, clinical trials, ecological studies
* Evidence based medicine
* Systematic review, meta-analysis, guidelines

**Disease Prevention**

* Targeted and population approaches to disease prevention/screening
* Prevention paradox
* Primordial, primary, secondary, tertiary and quaternary prevention

**Screening**

* Principles, methods and applications of screening; sensitivity, specificity, positive and negative predictive values
* Ethical and economic aspects of screening
* Planning, operation and evaluation of screening programmes
* Evidence for widely implemented screening programmes

**Health protection**

* Surveillance and methods of control
* Investigation of outbreaks
* Organisation of infection control; elementary molecular biology as related to microbiology
* Understanding of non-communicable, environmental and chemical hazards
* International aspects of communicable disease control

**Vaccinology**

* Principle of vaccination
* General recommendations on immunization
* Immunization strategies
* Vaccine safety
* Vaccine administration

**Epidemiology and management of common and important infectious diseases**

* Diphteria
* Haemophilus Influenzae
* Hepatitis B
* Hepatitis A
* Hepatitis C
* HIV
* Human Papillomavirus
* Influenza
* Legionella
* Measles
* Meningococcal diseases
* Mumps
* Pertussis
* Pneumococcal diseases
* Poliomyelitis
* Rotavirus
* Rubella
* SARS-COV-2
* Tetanus
* Tuberculosis
* Varicella

**Hospital management**

* Hospital hygiene: disinfection, hand hygiene, biomedical waste
* Infection control and prevention of health-care associated infection
* Principles of risk management

**Food safety**

* Principal of food safety
* Foodborne intoxication
* Foodborne infections: Salmonellosis, Botulism, Staphylococcus aureus, Clostridium perfringens, Bacillus cereus, Campylobacter jejuni
* HACCP

**Epidemiology and prevention of non-communicable disease**

* Cardiovascular diseases
* Cancers
* Obesity and diabetes
* Chronic respiratory diseases
* Health disorders related to indoor and outdoor air pollution
* Active aging

**Travel medicine**

* Burden of travel related diseases
* Travel diarrhoea
* Vector-borne diseases
* General recommendation about the prevention of malaria
* Vaccinations recommended for international travellers
* Heat and cold related illness

**Migrants health**

**Principles of international health organization**

**Environmental health**

* Water hygiene (potable water, mineral water and wastewater) and reference legislation
* Water Safety Plan and Directive (EU) 2020/2184
* Waste management
* Air pollution and management

**Recommended textbook**

Johan Giesecke. Modern Infectious Disease Epidemiology, Second Edition. Arnold

Charles Guest, Walter Ricciardi, Ichiro Kawachi, and Iain Lang. Oxford Handbook of Public Health Practice. Third Edition. Oxford University Press

**Professor workplace**

Interdisciplinary Department of Medicine, Hygiene section

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**Professor contacts**

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**Final examination**

Oral exam