



UNIVERSITÀ
degli STUDI
di CATANIA

DEPARTMENT OF MEDICAL AND SURGICAL SCIENCES AND
ADVANCED TECHNOLOGIES

Master's Degree in Health Professions of Rehabilitation
Sciences

Academic Year 2018/2019 - 1° Year

MEDICINA LEGALE E DEL LAVORO

9 CFU - 2° Semester

Teaching Staff

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LEARNING OBJECTIVES

▪ General and Applied Hygiene

The course will allow students to learn concepts on clinical risk assessment and epidemiology acquiring skills about conduction of the literature revisions, meta-analyzes and systematic revisions. Evidence-based medicine will also be deepened and the student will be instructed in the drafting and organization of research projects, training interventions, educational interventions and support for the individual and the community for self-management and control of risk factors and of health problems.

▪ Occupational Medicine

The aim of the course is to provide information and knowledge about workplace-related pathologies (accidents and illnesses) as well as to become familiar with prevention principles, with particular reference to risk assessment and preventive measure adoption.

Students will have to learn methods and techniques to collect work history, identify environmental and occupational risks and possible relationships with genetic, demographic, socio-economic, psychological and cultural factors, related to health or illness statuses, as well as to look into the possible non-specific effects of occupational risk factors, especially for degenerative chronic diseases.

The main etiologically diagnostic aspects of occupational medicine will be dealt with, and so will the epidemiology of con-causally work-related diseases. Also, the most frequent professional diseases and work accidents will be classified. The main analysis method and work risk assessment instruments will be provided, that is limit exposure levels, environmental/biological monitoring and healthcare surveillance. Also, occupational risk information, safety and health law guidelines in work places, primary and secondary prevention of occupational diseases, role and duties of the competent physician will be discussed.

COURSE STRUCTURE

- **General and Applied Hygiene**

The course includes lectures with the help of powerpoint.

- **Occupational Medicine**

Frontal lesson.

DETAILED COURSE CONTENT

- **General and Applied Hygiene**

- Clinical risk and its significance
- Evaluative epidemiology
- Literature reviews and PRISMA type revision methodologies
- Systematic reviews and metanalysis, strengths and limits.
- Evidence-based medicine
- Drafting and organization of research projects, training interventions, educational interventions and support for the individual and the community for self-management and control of risk factors and
- Health problems.

- **Occupational Medicine**

History and evolution of Occupational Medicine: prevention service legislation and organization; work accidents and professional diseases insurance practices. Risk assessment procedure; exposure times and limit levels/values.

Primary and secondary prevention principles. Healthcare surveillance and duties of competent physician. Biological monitoring procedures. General and individual preventive practices and first aid action organization. Biological risk and vaccinations. Physical risks: noise, vibrations, ionizing-non-ionizing radiations, microclimate and compressed atmosphere. Ergonomy principles: postures and work. Workstation, shift and night work risks. Assessment of risks in manual loads handling and in repetitive movements of upper limbs with associated pathologies. Organizational wellness and

its associated work stress. Health promotion in working places.

Main dust/fibre and professional allergene exposure-related pathologies; indoor and outdoor pollutants. Exposure risks to chemical, mutagen and carcinogenic agents.

Principles of Industrial Hygiene and hints of Statistics. Risks in the main working cycles. Guidelines on safety and health in working places.

TEXTBOOK INFORMATION

▪ **General and Applied Hygiene**

- Luca degli Esposti. Valutare l'efficacia degli interventi in sanità. Il Pensiero Scientifico Editore.
- Fabrizio Faggiano Applicazioni di epidemiologia per la Sanità Pubblica
- Materiale fornito dal docente

▪ **Occupational Medicine**

- David Koh, Ken Takahashi. Textbook of Occupational Medicine Practice. 3rd Edition ISBN: 978-981-4329-57-6
 - Antonio Mutti, Massimo Corradi: "Lezioni di Medicina del Lavoro". Nuova Editrice Berti, 2014 (ISBN 978-88-7364-627-3)
 - Per Alberto Bertazzi: "Medicina del lavoro". Raffaello Cortina Editore, 2013 (ISBN 978-88-6030-633-3)
 - Enrico Pira, Canzio Romano, Paolo Carrer: "Manuale di medicina del lavoro". Minerva Medica, 2016 (9788877118431)
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