UE 20 HEALTH SYSTEMS: Public health

3 ECTS

**Content**

**Classes**

- **Public health**
  - Definition, fields of intervention
  - Roles of pharmacists
  - Importance of education for health
  - Main actors: at the international and national levels
  - The concept of risks

- **Epidemiology**
  - Definitions and fields of application
  - Main types of investigations (transversal, case-control, cohort)
  - Notions of statistics (expectancy, standard deviation, estimation, sampling fluctuation)
  - Commonly used descriptive and etiological indicators
  - Main biases (selection, ranking, confusion) and notion of adjustment
  - Interpreting survey/investigation results, notion of causality

- **Health: physical and mental hygiene**
  - Physical and personal hygiene: roles in prevention, main pathologies, sport and health, doping and prevention
  - Travel and health prevention
  - Mental hygiene: prevention, depression, suicides

- **Prevention of communicable diseases**
  - General principles of prevention
  - Disinfection, sterilization
  - Examples: tuberculosis, sexually transmitted diseases, flu...

- **Prevention of non-communicable diseases**
  - Cardiovascular diseases and metabolic syndrome
  - Cancers
  - Addictions and dependencies: illicit drugs, smoking, alcoholic disease

- **Contraception**

- **Maternal and child health**

- **Disability and society**

- **Seniors health**

- **Health and environment**
  - Importance - Multidisciplinary - Fields of intervention, major compartments and ecosystems
  - Air pollution and health risks
  - Waste and health risks, management
  - Water and life: pollution and health issues, water resources, quality standards, microbiological risk, chemical risk, drinking water production and distribution, wastewater treatment, packaged waters, the hydrotherapy / balneology, water in hospitals

* **Classes** (all students in amphitheater).

**Assessment**

Final exam about classes.

**Contacts**
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