M4: Skills Programme 1. Information Searching and Critical Analysis Skills (Year 1)

Knowledge Content
- Understand the basic concepts of biostatistics and its application to medical sciences.
- Develop the ability to design and conduct simple statistics studies using computer software and interpret the findings.
- Understand and interpret statistics data in medical literature.
- Manage a personal computer independently.
- Use search systems and biomedical database.
- Manage clinical documentation procedure.
- Comprehend and interpret scientific texts critically.
- Understand the principles of the scientific method, biomedical research and clinical trial.
- Understand and manage the principles of evidence-based medicine.

Competences
- Recognize the physician’s own limitations and the need to maintain and keep the physician’s professional competence up to date, giving special importance to the independent learning of new knowledge and techniques, and to the drive for quality.
- Understand and recognize the causative agents and risk factors that determine the health status and development of disease.
- Recognize the determinants of health of the population, taking into consideration the genetic factors as well as those that are sex- and lifestyle-dependent, or affected by demography, environment, society, economy, psychology and culture.
- Obtain and use epidemiological data, and assess tendencies and risks for health decision-making.
- Have knowledge of, assess critically and know how to use clinical and biomedical information resources to obtain, organize, interpret and communicate scientific and health information.
- Know how to use information and communication technology in clinical, therapeutic, preventive and research activities.
- Understand the importance and limitations of scientific thinking in the study, prevention and management of diseases.
- Formulate hypothesis, collect and assess information critically using the scientific method for problem solving.
- Acquire basic training for research activities.

**Learning Methods**
Problem-based learning tutorials (PBL)
PBL Question & Answer sessions
Workshops
Lectures

**Evaluation**
Formative assessment
PBL examination
Other forms of assessment, when appropriate

**ECTS Credits**
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