

Teaching guide

IDENTIFICATION DETAILS

Degree:	Medicine		
Field of Knowledge:	Health Science		
Faculty/School:	Medicine		
Course:	DIAGNOSTIC PROCEDURES II		
Type:	Compulsory	ECTS credits:	3
Year:	4	Code:	2744
Teaching period:	Seventh semester		
Area:	Diagnostic Methods		
Module:	Diagnostic and Therapeutic Procedures		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	75		

SUBJECT DESCRIPTION

En los últimos años, las técnicas de laboratorio han contribuido al gran avance de los métodos diagnósticos, poniendo al alcance del médico información sensible y específica, muy útil para el diagnóstico, seguimiento y evaluación del tratamiento de los pacientes.

La indicación de las pruebas de laboratorio debe realizarse a partir del razonamiento clínico que surge del estudio del paciente a través de la anamnesis y la exploración física, desarrollados en otras asignaturas de la misma Materia. El médico debe saber usar con criterio y moderación las pruebas de laboratorio para establecer un diagnóstico y valorar con los resultados obtenidos si el tratamiento establecido beneficia al paciente o es

necesario modificarlo.

Los datos proporcionados por las técnicas de laboratorio deben ser interpretados de forma adecuada, integrados en el contexto de un paciente concreto y teniendo en cuenta los factores pre-analíticos y analíticos que pueden influir en los resultados de cada paciente.

La asignatura de Procedimientos Diagnósticos II pertenece al módulo de Procedimientos Diagnósticos y Terapéuticos, y se impartirá durante el 7º semestre. Con esta asignatura se adquieren los conocimientos suficientes para comprender e interpretar las principales pruebas de laboratorio empleadas en el diagnóstico y seguimiento del paciente y la evaluación de su tratamiento. Además, el alumno debe adquirir conocimientos sobre las indicaciones y limitaciones de las pruebas de laboratorio clínico y ser capaz de evaluar el balance riesgo/beneficio para el paciente. Con estos conocimientos sentará las bases para la correcta indicación y uso de las principales pruebas de laboratorio clínico en su práctica médica posterior.

SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

General Skills

To recognise the essential elements of the medical profession, including ethical principles, legal responsibilities and professional practice focussed on the patient. To acquire the values of professionalism:

- a. Altruism: looking for the best in patients.
- b. Responsibility: complying with the implicit agreement with the community.
- c. Excellence as a continuous search for knowledge.
- d. Obligation as a free commitment to serve.
- e. Honour and integrity: complying with personal and professional codes and undertaking not to breach them.
- f. Serving others.

To understand and recognise the causal agents and risk factors that determine health conditions and development of illness.

To understand and recognise the effects that the growth, development and aging of on the individual have on the social environment.

To establish the diagnosis, prognosis and treatment, applying principles based on the best possible information and clinical safety conditions.

To acquire suitable clinical experience in hospital institutions, health centres or other healthcare institutions, under supervision, as well as basic knowledge on clinical management centred around the patient, and to suitably use tests, drugs and other resources afforded by the healthcare system.

To establish good interpersonal communication that makes it possible to address patients, family members, media and other professionals with efficiency and empathy.

To acknowledge one's role in multiprofessional teams, taking on leadership when pertinent, be it when providing healthcare or in interventions aimed at promoting health.

To be able to use information and communication technologies in clinical, therapeutic, preventive and research activities.

To keep and use the patient information records for subsequent analysis, maintaining the information confidential.

Students must be able to develop a profile conducive to the practice of medicine through activities specifically designed in all subjects of the syllabus.

To engage in professional practice with regard to other health professionals, gaining teamwork skills.

To understand and recognise the structure and normal function of the human body at molecular, cellular, tissue, organ and system level in the various stages of life, in both men and women.

To understand and recognise the effects, mechanisms and manifestations of illness on the structure and function of the human body.

Specific skills

To learn how to obtain and process a biological sample for study using different diagnostic procedures.

To be able to interpret the results of diagnostic laboratory tests.

To assess the risk/benefit ratio of diagnostic and therapeutic procedures.

To be familiar with the indications of biochemical, haematological, immunological, microbiological, anatomopathological and imaging tests.

To be familiar with the biochemical, cytogenetic and molecular biology markers applied to clinical diagnostics.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
49 hours	26 hours