

GAZI UNIVERSITY FACULTY OF MEDICINE
DEPARTMENT OF MEDICAL PHARMACOLOGY
ELECTIVE MEDICAL PHARMACOLOGY INTERNSHIP

EDUCATION SUPERVISORS

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DURATION: 3 weeks

SEMESTER: Semester VI

OBJECTIVE OF THE INTERNSHIP:

Semester VI students will acquire knowledge, skills, and attitudes about basic/clinical pharmacological concepts, research methods used in basic and clinical pharmacology, rational drug use (RDU), and article presentation.

LEARNING OBJECTIVES:

At the Knowledge Level:

- To define basic/clinical pharmacological concepts.
- To describe the pharmacokinetic and pharmacodynamic properties of drugs effective on different systems.
- To explain preventive, regenerative, and anti-aging medical applications.
- To explain reimbursement system and prescription evaluations.
- To explain drug treatment management in chronic diseases.
- To list RDU principles and safe/unsafe drugs in special patient groups (pregnant, children, elderly).
- To explain in-vitro and in-vivo experimental methods used in preclinical drug research.
- To explain clinical pharmacological concepts and their implications in medical practice.
- To define types of clinical drug research and distinguish differences among them.

At the Skill Level:

- To recognize/demonstrate tools and equipment used in basic and clinical pharmacological research.
- To act in accordance with the 6 steps of RDU in a selected indication.
- To present a scientific article in pharmacology.
- To fill out a pharmacovigilance form.

At the Attitude Level:

- To recognize the power of scientific methods in solving basic and clinical pharmacological problems.

To acknowledge the importance of rational drug use.

EDUCATION PROGRAM:

THEORETICAL COURSES:

General Pharmacology
Systems Pharmacology
In-vitro and in-vivo experimental methods used in preclinical drug research
Clinical drug research
Preventive, Regenerative, and Anti-aging Medical Applications
Reimbursement system and prescription evaluations
Drug treatment management in chronic diseases
RDU principles in special patient groups (safe and unsafe drugs)
Evaluation of a scientific article

PRACTICAL APPLICATION:

Monitoring of Laboratory Practices
Isolated organ experiments
Isolated perfusion experiments
Molecular techniques/Cell culture application
Experimental application in neuropharmacology
High-Performance Liquid Chromatography (HPLC) application
Filling out a pharmacovigilance form
Implementing the 6 steps of RDU in a selected indication
Selecting and evaluating an article
Presenting and discussing a research article

EDUCATION METHODS:

Theoretical lectures
Training sessions consisting of seminars and practical applications
Observational or participatory studies

CRITERIA FOR EVALUATING STUDENT SUCCESS

	Percentage (%)
Participation in theoretical courses	20
Monitoring of laboratory practices	20
Completion of RDU application in a selected indication	20
Filling out the pharmacovigilance form	20
Article presentation	20
TOTAL	100