

**ISTANBUL OKAN UNIVERSITY**

**FACULTY OF MEDICINE**

**MED413**

**RATIONAL USE OF DRUGS**

**COURSE PROGRAM**

**LECTURER**

Assist. Prof. Dr. Fuat Nihat Özaydın

### MED413 Rational Use of Drugs (3 credit)

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**AIM OF THE COURSE**

The purpose of this course is to teach students how to write out a prescription in accordance with the rules of pharmacology and that is supported by rational data; to teach detecting patient’s problem (communicating with patients and their relatives and provide them with the right information), explaining the rational pharmacotherapy, examining the effectiveness of drugs, how to apply the drug doses (I.V. injection, I.V. infusion, subcutaneous injection and local administration applications). Prerequisites: MED206, MED301, MED302, MED303, MED304, MED305, MED306, MED307 and For foreign students; pass The Turkish Language Exam.

**LEARNING OBJECTIVES**

At the end of this course the student will be able to:

* Write a prescription in accordance with the rules of pharmacology that is supported by rational data
* Grasp the patient’s problem (communicating with patients and their relatives and provide them with the right information),
* Explaining the pharmacotherapy (decide on a rational pharmacotherapy),
* Examining the effectiveness of drugs, how to apply the drug doses (IV. Injection, IV. Infusion, subcutaneous injection and local administration applications).
* Write a complete and correct prescription by using personal drug list.
* Write an accurate prescription using Treatment Guidelines and Vademekum (Medication guide).

**COURSE CONTENT**

* The list of Emergency Treatments and Diagnosis-Treatments of the diseases described in the National Medicine Core Curriculum 2020
* Rational Drug Use Principles,
* Prescribing Principles
* Drug Adverse Effect Notification Form
* Rational Use of Drugs (RUD) in the Treatment of Hypertension
* RUD in Diabetes Treatment
* RUD in the Treatment of Dyslipidemia
* RUD in the Treatment of Asthma, Allergic Rhinitis
* RUD in the Treatment of Pediatric URTI Diseases
* RUD in the Treatment of Pediatric Infectious Diseases
* RUD in the elderly and special population
* RUD in the emergency diseases of adult/children

**COURSE INFORMATION**

Theoretical : 29 hours

Practical : 32 hours

Duration : 10 days

Type of Education : Compulsory for graduation

Location : Olearn System

**LEARNING METHODS**

Theoretical Lectures/ Student Seminars / Case-Based Discussion / Problem-Based Learning

**OUT OF CLASS WORKING METHODS**

Finding “up-to-date Treatment Guidelines” for the diseases described in the National Medicine Core Curriculum 2020 / Preparing the Treatment Guide according to the Case / Group Work / Preparing the Internship File / Preparing the Prescription File

**ASSESSMENT**

• Evaluation of the Internship File

• Evaluation of the Prescription File

• Written Exam

• A passing grade will be determined by an evaluation to be made with 30% of the points from the files they submit and 70% of the online exam score at the end of the internship.

**COURSE PROGRAM**

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| Date  | Morning (4 lectures)  | Afternoon (3 lectures) |
| 1.day | National Medicine Core Curriculum 2020, Principles of Rational Drug Use (Theoretical) | Prescribing principles, Pharmacovigilance, Adverse Effects Report Form (Theoretical) |
| 2. day  | Student work on filling the adverse effect notification form (practice)  | Rational drug use in the treatment of hypertension (Theoretical) |
| 3. day | Student work on rational drug use in the treatment of hypertension (Practice) | Rational drug use in diabetes treatment (Theoretical) |
| 4. day | Student work on rational drug use in diabetes treatment (Practice) | Rational drug use in the treatment of dyslipidemia (Theoretical) |
| 5. day | Student work on rational drug use in dyslipidemia treatment (Practice) | Rational drug use in the treatment of Asthma, allergic rhinitis (Theoretical) |
| 6. day  | Student work on rational drug use in Asthma, allergic rhinitis treatment (Practice) | Rational drug use in the treatment of pediatric URTI (Theoretical) |
| 7. day | Student work on rational drug use in pediatric URTI treatment (Practice) | Rational drug use in the treatment of pediatric infectious diseases (Theoretical) |
| 8. day | Student work on rational drug use in pediatric infectious diseases treatment (Practice) | Rational drug use in the elderly (Theoretical+Practice) |
| 9. day  | Rational drug use in emergency diseases of adult/child (Theoretical) | Rational drug use in emergency diseases of adult/child (Practice) |
| 10.day  | Student presentation  | Student presentation+Exam |