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| ***Item-uri*** | ***Cerinţe*** |
| **Lecture title** | **P(Personal)-drug and individual variation in drug response** |
| **Objectives** | Drug treatment is prescribed based on guidelines, therefore it is need to be sure if the choice will be effective or safe for an individual patient. The inter-individual variation can be predictable by the good prescribers that adjust their practice accordingly. |
| **Aim group** | Students from Vth year |
| **Participants** | Minimum number: 30 participants, maximum accepted: 40 |
| **Topics** | 1. P-drug (Personal drug) concept for drug treatment optimization 2. Interindividual variability – pharmacodynamic factors 3. Interindividual variation – pharmacokinetic factors 4. Interindividual variability – pharmacogenetic factors 5. Effect of age on drug dosage requirements and serum concentrations 6. Effect of hepatic diseases on drug dosage requirements and serum concentrations 7. Effect of renal diseases on drug dosage requirements and serum concentrations |
| **Bibliography** | 1. NIH: Self-Administration of Medicines Procedure - Southern Health, January 2019. 2. NICE guideline: Medicines optimization: the safe and effective use of medicines to enable the best possible outcomes, March 2015. 3. Lauschke VM, Zhou Y, Ingelman-Sundberg M. Novel genetic and epigenetic factors of importance for inter-individual differences in drug disposition, response and toxicity. Pharmacol Ther. 2019;197:122-152. |
| **Competences (abilities acquired)** | * Decision-making: ability to choose a drug (P-drug) to be prescribed regularly for a particular patient and with whom you have become familiar; reduce the chances of irrational prescribing. * Communication and interpersonal skills: ability to cooperate with colleagues and to develop the qualities of professionalism. * Problem solving and advisory role: ability to assess situations and to find appropriate solutions regarding the P-drug that can vary from doctor to doctor, country to country because of variation of cost or other factors. |
| **Teaching methods and lecture notes** | Video projections, discussion of clinical situations and interactive dialogues with the students, work on common thematic projects. |
| **Responsable** | Prof. Dr. Cristina Mihaela Ghiciuc |
| **Associated lecturer** | - |
| **Keywords** | P-drug (Personal drug) concept; Interindividual variability |

**OPTIONAL DISCIPLINES - OFFER**

**UNIVERSITY YEAR 2020-2021**