



Faculty of Pharmacy

Department I

University Clinic of Toxicology, Drug Industry, Management and Legislation

Associate Professor, Position 42

Topics

1. Hematological semiology - general manifestations, specific signs and symptoms, basic exploration, pathological changes in the blood cells: anemia, leukemia, myeloproliferative syndromes, malignant lymphoproliferation, thrombocytopenia, blood coagulation deficiencies.
2. Digestive tract semiology - anamnesis, objective examination, paraclinical exploration methods, main symptoms, syndromes specific to various segments: esophagus, stomach, small intestine, large intestine, anorectal area.
3. Joint and connective tissue semiology: major rheumatological syndromes - acute articular rheumatism, rheumatoid arthritis, seronegative spondylitis, systemic lupus erythematosus, scleroderma, dermatomyositis, infectious arthritis, gout, arthrosis.
4. Respiratory tract semiology - main symptoms, physical examination, paraclinical exploration, main syndromes encountered in pathology: bronchitis syndrome, pulmonary condensation syndrome, pleural syndrome, renal insufficiency respiratory
5. General symptoms – pain, headache, fever, dizziness, vertigo, asthenia, fatigue, functional impotence.
6. Specific terms that define the presentation forms of medicines and cosmetic products.
7. Medical terminology related to medical and pharmaceutical specialties, the formation of medical terms, the meaning of related medical terms, concrete examples of the use of specific medical terms.
8. Principles of the formation of medical and pharmaceutical terms, the notion of root, affixes, prefixes, suffixes, the method of combination and the related rules.
9. Medical terminology specific to the digestive system: the formation of medical terms, the meaning of related medical terms, concrete examples of the use of specific medical terms.
10. Medical terminology specific to the respiratory system: the formation of medical terms, the meaning of related medical terms, concrete examples of the use of specific medical terms.
11. First aid in poisoning - by ingestion: medicines, mushrooms; by inhalation: CO, smoke, irritating gases; by injection: drugs, insect stings, snakebite - assessment, signs, attitude.
12. Cardiopulmonary resuscitation (CPR) and circulation: causes of cardiac arrest, components of CPR, description of the chain of survival, description of techniques applicable to adults, children, infants.
13. First aid in case of burns: classification, symptoms, assessment, attitude, applicable maneuvers.
14. First aid in hemorrhages: situations of hemorrhages; application of basic concepts.
15. First aid in airway obstruction by foreign bodies: maneuvers applicable to adults (Heimlich), maneuvers applicable to children, special situations: tracheostomy.
16. Major illicit drug addictions (e.g. opium addiction, morphine addiction and heroin addiction: etiology, mechanisms of action, clinical picture, treatment, preventive measures).
17. Amphetamine addiction: DOM, STP, MDA, MDMA or Ecstasy: etiology, mechanisms of action, clinical picture, treatment, preventive measures.
18. Minor licit drug addictions: chronic alcoholism, smoking, caffeine addiction, theism: etiology, mechanisms of action, clinical picture, treatment, preventive measures.
19. Drug addiction induced by anesthetics and volatile solvents: etiology, mechanisms of action, clinical picture, treatment, preventive measures.
20. The addictive phenomenon: attitude, specific possibilities of intervention.



21. Toxicity of plants containing cardiogenic, cyanogenic and glucosinolate glycosides: examples, specific symptoms of intoxication and treatment measures.
22. Aspects related to medicinal plants with hepatotoxic potential.
23. Types of contaminants present in plants.
24. Photosensitizing potential of plants containing coumarins and furanocoumarins: examples, specific symptoms of poisoning and treatment measures.
25. Toxic and hallucinogenic mushrooms: examples, symptoms.
26. Concepts related to the design and analysis of pharmaceutical quality.
27. Processes of pharmaceutical industrial technology.
28. Pharmaceutical fermentative biotechnologies.
29. Genetic biotechnologies. Flow of genetic information. Recombinant DNA technology.
30. Rules of good practice in the manufacture and evaluation of pharmaceutical products on an industrial scale. Classification and evaluation of composition and process variations for industrial pharmaceutical products.

Bibliography

1. Semiology Course - pharmaceutical applications - electronic support available at the discipline.
2. Georgescu M, Georgescu E. Semilogie medicală. Ed didactică și pedagogică București 2003.
3. Bruckner I. Semilogie medicală. Ed Medicala București 1999.
4. Ciobanu L. Semilogie medicală, semne și cazuri clinice. Ed Tehnopress Iași 2008.
5. Harrison's Principles of Internal Medicine 2020 –online.
6. Medical Semiology Course – electronic support available at the discipline.
7. Popa Daniela -Saveta. Terminologie medicale et pharmaceutique appliquee I-er vol Ed Med Universitară Iuliu Hațieganu Cluj-Napoca, 2014.
8. Popa Daniela -Saveta. Terminologie medicale et pharmaceutique appliquee II-eme vol Ed Med Universitară Iuliu Hațieganu Cluj-Napoca, 2014 .
9. Dumitru Lupuleasa, Iuliana Popovici, Lacramioara Ochiu. Terminologie medicală și farmaceutică. Ed Polirom București 2011 .
10. ***Law no. 178/2000 on cosmetic products, as amended.
11. Electronic course support Medical Terminology - annually revised available at the discipline.
12. R. Arafat Ministerul Sănătății Manual de Prim Ajutor Calificat Ed Min Adm și Internelor 2009 http://old.ms.ro/documente/430_1301_manual.pdf.
13. D. Cimpoeșu – Resuscitare cardiopulmonară de bază și avansată, POSDRU/81/3.2/S/59805 Fondul Social European 2012.
14. First Aid and Medical Emergencies Course – electronic support available at the discipline.
15. Blok BK, Cheung DS, Platts-Mills TF. First Aid for the® Emergency Medicine Boards, Third Edition ed McGraw-Hill.
16. Daniela Baconi, Dan Bălălu, Pavel Abraham Abuzul și Toxicodependența, Mecanisme, Manifestări, Tratament, Legislație Ed Medicală București 2008.
17. Macovei R., Galatescu E. Elemente de toxicologie a drogurilor Ed. Focus Buc 2006;
18. Drug Addiction Course – electronic support available for the subject.
19. Coricovac D, Dehelean C, Pinzaru I, Moaca A. Noi aspecte în ceea ce privește utilizarea plantelor toxice. Ed. Victor Babeș Timișoara, 2018.
20. Dehelean CA, Gheorgheșu D, Ionescu D. Notiuni de toxicologie generală. Ed. Victor Babeș Timișoara, 2013.
21. Dan Dragoș, Industrie și Biotehnologii Farmaceutice, Editura Mirton, Timișoara, 2006.
22. C. Dăescu, Produse de bio și semisinteză, Ed. Politehnica, Timișoara, 2006.
23. Pharmaceutical Industry and Biotechnology Course – electronic support available at the discipline.