**Pharmacology**

**General medicine - practical courses**

**Autumn semester 2014**

**SEMINARS**  
  
**Day 1 (Mon)**  
  
Introduction, instructions. Distribution of co-talks.

**1/ANALGESICS.**  
Opioid analgesics. Pharmacotherapy of pain. Opioid addiction therapy. Prescription and practical use of analgesic preparations.  
  
**2/NON-STEROIDAL ANTIINFLAMMATORY DRUGS, DRUGS USED IN GOUT, ANTIPYRETICS.**  
Mechanisms of action and classification of anti-inflammatory and anti- rheumatic drugs (NSAIDs and the 2nd-line agents). Drugs used in therapy of gout.  
**Getting ready for the next lesson:** *Central neurotransmitters and sites of drug effects in CNS. Basic psychical functions.*  
**Revision:** *CNS neurotransmitters and receptors, Autonomic nervous system – catecholamines, atropine. Myorelaxants.*  
  
  
**Day 2 (Tue)**  
  
**3/PSYCHOTROPIC DRUGS.**  
Classification and terminology of psychotropics. Review of their mechanisms of action. Pharmacology of anxiolytics and hypnosedatives. Mechanism of action of benzodiazepines. Prescription of hypnosedatives and psychostimulants.  
**Co-talks.**  
  
**4/GENERAL AND LOCAL ANAESTHETICS**  
Combined and balanced anaesthesia. Signs and stages of general anaesthesia. Inhaled and injected anaesthetics - classification and characteristics. Review of drugs used in premedication.  
**Co-talks.**  
**Getting ready for the next lesson:** *Structure of bacterial cell, basis of antimicrobial therapy.*

**Day 3 (Wed)**  
  
**5/ANTIMICROBIAL AGENTS I.**  
Classification, mechanisms of action, combinations of antibiotics and chemotherapeutics.  
**Co-talks.**  
  
**6/ANTIMICROBIAL AGENTS II., CHEMOTHERAPEUTICS, THERAPY OF INFECTIOUS DIARRHEAS AND UROINFECTIONS.**  
Drugs acting in intestinal and urinary infections.  
**Co-talks.**  
**Getting ready for the next lesson:** *Allergic reactions – causes and mechamisms. Revision of PNS pharmacology - β2* mimetics, parasympatholytics. Glucocorticoids.  
  
  
**Day 4 (Thu)**  
  
**REVISING TEST I (Overhead-test with subsequent discussion) Lesson 1 – 6.**  
  
**7/CASE REPORTS I.**  
Selected case reports on drugs from previous lessons. (Including Pharmacology I lessons)  
  
**8/H1 ANTIHISTAMINES, ANTIASTHMATICS.**  
Classification and clinical use of H1 antihistamines. Pathophysiology of bronchial asthma, sites and mechanisms of action of antiasthma drugs. Prescription of antitussives, expectorants, antiasthmatics.  
**Co-talks.**  
**Getting ready for the next lesson:** *Revision of praescription terminology, pathophysiology of gastric ulcers*  
  
  
**Day 5 (Fri)**  
  
**PRESCRIPTION TEST: DRUGS ACTING IN CNS, ATB, LOCAL ANAESTHETICS,H1 ANTIHISTAMINES, ANTIASTHMATICS.**  
  
**9/DRUGS USED IN ULCER DISEASE, ANTIEMETICS**  
Classification, mechanisms of action and clinical use of drugs in therapy of peptic ulcer and vomiting.  
**Co-talks.**  
  
**10/ANTICOAGULANTS AND THROMBOLYTICS.**  
Fibrinolytics, haemostatics, therapy of haemopoietic disorders.  
**Co-talks.**  
**Getting ready for the next lesson:** *Physiology of blood pressure regulation. Revision of PNS pharmacology- α1 sympatholytics, α2 sympathomimetics, β sympatholytics.*  
  
**Day 6 (Mon)**  
  
**11/HYPOLIPIDEMICS, THERAPY OF OBESITY.**  
Therapy of hyperlipoproteinaemia and hypercholesterolaemia, review of drugs and their mechanism of action.  
**Co-talks.**  
  
**12/ANTIHYPERTENSIVE AGENTS.**   
Introduction, classification, diuretics, beta blockers, ACE inhibitors, Ca2+ blockers.  
**Co-talks.**  
**Getting ready for the next lesson:** *Revision of lessons from lessons 7-12; patophysiology of cancer disease.*  
  
  
**Day 7 (Tue)**  
  
**REVISING TEST II (Overhead-test with subsequent discussion). Lessons 7 - 12.**  
  
**13/CASE REPORTS II.**  
Selected case reports on drugs from previous lessons. (Including Pharmacology I lessons)  
  
**14/PHARMACOLOGY OF ANTICANCER DRUGS.**  
Classification, mechanisms of action, side effects.  
**Getting ready for the next lesson:** *Revision of prescription of drug dosage forms for external use.*   
  
  
**Day 8 (Wed)**   
  
**FINAL PRESCRIPTION TEST (includes dermatology).**  
  
**15/REVIEW OF DRUGS USED IN DERMATOLOGY AND OTORINOLANRYNGOLOGY.**  
  
**CREDITS.**

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