

TOPICS

FOR THE PROMOTION EXAM ON ASSISTANT PROFESSOR

THE DISCIPLINES:

Pharmacognosy I, II (Pharmacy, year III)

Phytotherapy (Pharmacy, 3rd year)

position 14 of the State of functions of the Pharmacy Department

FACULTY OF MEDICINE AND PHARMACY, University of Oradea

1. CHEMICAL COMPOSITION OF PLANT DRUGS

1.1. Active principles - phytocomplex.

1.2. Chemotaxonomy.

2. PLANT DRUGS WITH PHYSICAL ACTION

2.1. Lycopodium spora, Carbo medicinalis, Gossypium depuratum.

3. CARBOHYDRATES.

3.1. Monosaccharides: general aspects and plant drugs.

3.2. Oligosaccharides: general aspects and plant drugs.

3.3. Polysaccharides (glycans) and plant drugs with homo and heteroglycans

4. GLYCOSIDES (HETEROSIDES).

4.1. General aspects

4.2. Phenolic glycosides. Overview - plant drugs with phenolic glycosides.

4.3. Antracenosides. Overview - plant drugs containing antraglycosides.

4.4. Cardiotonic heterosides. Overview - plant drugs with cardiotonic heterosides.

4.5. Flavonosids. Overview - representative plant drugs.

4.6. Anthocyanosides and proanthocyanidols. Overview - representative plant drugs.

4.7. Coumarines. Overview - representative plant drugs.

4.8. Thioglycosides. Overview - plant drugs containing thioglycosides.

4.9. Cyanogenetic glycosides. Overview - plant drugs with cyanogenic heterosides.

5. ALKALOIDS

5.1. Alkaloids and genalkaloids. Overview - representative plant drugs.

5.2. Pyridine and piperidine alkaloids. Overview - representative plant drugs.

5.3. Tropane and imidazole alkaloids. Overview - representative plant drugs.

5.4. Indole alkaloids. Overview - representative plant drugs.

5.5. Purinic, quinolinic, isoquinolinic alkaloids. Overview - representative plant drugs.

5.6. Quinolindinic and terpenic alkaloids. Overview - representative plant drugs.

6. ACTIVE PRINCIPLES OF TERPENIC NATURE.

6.1. Aetheroleae - Overview.

6.2. Volatile oils. fam. Labiateae.

6.3. Volatile oils. fam. Asteraceae, fam. Compositae.

7. PRODUCTS WITH CONTENT IN BITTER PRINCIPLES.

7.1. General aspects.

7.2. Definition. Classification. Chemical structures.

7.3. Plant drugs Volatile oils. fam. Lauraceae, Myrtaceae, Rutaceae.

8. INTRODUCTION.

8.1. Definition of phytotherapy. The role of phytotherapy in therapeutics.

8.2. Progress and trends of phytotherapy products.

8.3. Plant drugs - Extractive preparations - Pharmaceutical forms.

8.4. The main classes of active principles.

9. PHYTOTHERAPY OF THE CARDIO-VASCULAR SYSTEM DISEASES.

9.1. Heart disease (angina pectoris, heart failure, arrhythmias, high blood pressure).

9.2. Phytotherapeutic solutions.

10. PHYTOTHERAPY OF THE NERVOUS SYSTEM DISORDERS.

10.1. Diseases of the nervous system

10.2. Herbal sedatives.

10.3. Herbal stimulants.

10.4. Herbal antidepressants.

11. PHYTOTHERAPY OF THE DIGESTIVE SYSTEM DISORDERS.

11.1. Oral cavity disorders.

11.2. Gastric and intestinal disorders. (Hyperacidity, gastritis, peptic ulcer disease, gastric hypoacidity, anorexia, hypo dyspepsia, diarrhea, constipation, flatulence, abdominal cramping).

11.3. Acute and chronic hepato-biliary disorders.

12. PHYTOTHERAPY OF THE RESPIRATORY SYSTEM DISEASES.

12.1. Herbal immunostimulators.

12.2. Central and peripheral herbal antitussives.

12.3. Herbal expectorants.

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