

# **NEAR EAST UNIVERSITY**

## **FACULTY OF PHARMACY**

### **PHA 590 PHARMACY PRACTICE MANUAL**

**Name & Surname :**

**Student Number :**

**Pharmacy Practice Site :**

**Pharmacist Approval :**

## FOREWORD

The pioneering work in the field of drug utilization has firstly been done by two consultants at the WHO Regional Office for Europe, Engel and Siderius (The consumption of drugs: report of a study 1966-1967. WHO regional Office for Europe, 1968). A series of studies on drug utilization in European countries which were supported by WHO have resulted in the establishment of DRUG UTILIZATION RESEARCH GROUP (DURG). The target of this group was to develop internationally applicable methods for drug utilization research. Norwegian researchers have improved a system called the **Anatomical Therapeutic Chemical (ATC) classification** which was based on the previous system known as the European Pharmaceutical Market Research Association (EphMRA) classification system [1]. Thus, the basic part of this “**Pharmacy Practice Manual**” covers drug knowledge based on the **ATC Classification**. This guideline was developed to measure the output of the student learning in pharmacy practice. The aim of the manual is to help increase students knowledge on drug utilization in all perspectives including pharmacy management.

The main and subgroups of drugs according to the **ATC Classification** are given below. These drug groups are given to remind the students their knowledge gained in the lectures of pharmaceutical sciences during the study. With the help of this classification, each student should complete the manual personally with their own hand-writing. One or two examples for each drug group should be given in the forms provided in this manual to be filled with respect to trade name of the drug, the chemical name of the active compound(s), the chemical class of the active compound, the origin of the active compound (synthetic, natural, biological or biotechnological), Indications (uses), pharmaceutical dosage forms, route of administration, prescription requirement, doses, treatment time, uses during pregnancy, contraindications, Drug – Drug interactions and patient profile (age, gender). In the pages of “Magisterial Prescription” two examples should be given.

In addition to drug knowledge, there are some pages to be filled under the titles of PHARMACY MANAGEMENT. These are Accounting, Auxiliary Tools used in Pharmacy, Pharmacist and patients Relations – Patient Follow-Up, Shelf Life of the Drug, Pharmacy and Drug Stores Relations: Stock Control – Drug order. The knowledge on these subjects provided by the preceptors should be enriched based on your observations during the pharmacy practice. Finally, appropriate examples should be given for the Ordinary, Red, Green, Purple and Orange prescriptions.

You can also write your additional personal observations and suggestions in the separated pages during the pharmacy practice which can be helpful and valuable for us in the preparation of the future guidelines.

We wish all of you a fruitful pharmacy practice studies.

Prof. Dr. İhsan ÇALIŞ

Dean

[1] WHO Collaborating Centre for Drug Statistics Methodology, Guidelines for ATC classification and DDD assignment 2013. Oslo, 2012

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# **SECTION: I**

## **Type of Medicines and the Body Systems**



## **Anatomical Therapeutic Chemical (ATC) classification of drugs\***

**A** ALIMENTARY (GASTROINTESTINAL) TRACT AND METABOLISM

**B** BLOOD AND BLOOD FORMING ORGANS

**C** CARDIOVASCULAR SYSTEM

**D** DERMATOLOGICALS

**G** GENITO URINARY SYSTEM AND SEX HORMONES

**H** SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES AND INSULINS

**J** ANTIINFECTIVES FOR SYSTEMIC USE

**L** ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS

**M** MUSCULO-SKELETAL SYSTEM

**N** NERVOUS SYSTEM

**P** ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS

**R** RESPIRATORY SYSTEM

**S** SENSORY ORGANS

**V** Various (The Others)

\* The subgroups are given in the following pages.

## **A** ALIMENTARY (GASTROINTESTINAL) TRACT AND METABOLISM

<b>STOMATOLOGICAL PREPARATIONS</b>	<i>Stomatological preparations</i>
<b>DRUGS FOR ACID RELATED DISORDERS</b>	<i>Antacids Drugs for peptic ulcer and gastro-oesophageal reflux disease (GORD)</i>
<b>DRUGS FOR FUNCTIONAL GASTROINTESTINAL DISORDERS</b>	<i>A Drugs for functional gastrointestinal disorders B Belladonna and derivatives, plain C Antispasmodics in combination with psycholeptics D Antispasmodics in combination with analgesics E Antispasmodics and anticholinergics in combination with other drugs F Propulsives</i>
<b>ANTIEMETICS AND ANTINAUSEANTS</b>	<i>Antiemetics and antinauseants</i>
<b>BILE AND LIVER THERAPY</b>	<i>A Bile therapy B Liver therapy, lipotropics C Drugs for bile therapy and lipotropics in combination</i>
<b>DRUGS FOR CONSTIPATION</b>	<i>Drugs for constipation</i>
<b>ANTIDIARRHEALS, INTESTINAL ANTIINFLAMMATORY/ ANTIINFECTIVE AGENTS</b>	<i>A Intestinal antiinfectives B Intestinal adsorbents C Electrolytes with carbohydrates D Antipropulsives E Intestinal antiinflammatory agents F Antidiarrheal microorganisms</i>
<b>ANTIOBESITY PREPARATIONS, EXCL. DIET PRODUCTS</b>	<i>Antioesity preparations, excl. diet products</i>
<b>DIGESTIVES, INCL. ENZYMES</b>	<i>Digestives, incl. enzymes</i>
<b>DRUGS USED IN DIABETES</b>	<i>A Insulins and analogues B Blood glucose lowering drugs, excl. insulins</i>
<b>VITAMINS</b>	<i>A Multivitamins, combinations B Multivitamins, plain C Vitamin A and D, incl. combinations of the two D B-complex, incl. combinations G Ascorbic acid (vitamin C), incl. combinations H Other plain vitamin preparations J Other vitamin products, combinations</i>
<b>MINERAL SUPPLEMENTS</b>	<i>A Calcium B Potassium C Other mineral supplements</i>
<b>TONICS</b>	<i>Tonics</i>
<b>ANABOLIC AGENTS FOR SYSTEMIC USE</b>	<i>A Anabolic steroids B Other anabolic agents</i>
<b>APPETITE STIMULANTS</b>	

## B BLOOD AND BLOOD FORMING ORGANS

<b>ANTITHROMBOTIC AGENTS</b>	<i>Antithrombotic agents</i>
<b>ANTIHEMORRHAGICS</b>	<i>A Antifibrinolytics B Vitamin K and other hemostatics</i>
<b>ANTIANEMIC PREPARATIONS</b>	
<b>BLOOD SUBSTITUTES AND PERFUSION SOLUTIONS</b>	<i>A Blood and related products B I.v. solutions C Irrigating solutions D Peritoneal dialytics  X I.v. solution additives Z Hemodialytics and hemofiltrates</i>
<b>BLOOD SUBSTITUTES AND PERFUSION SOLUTIONS</b>	<i>A Blood and related products B I.v. solutions C Irrigating solutions D Peritoneal dialytics  X I.v. solution additives Z Hemodialytics and hemofiltrates</i>
<b>OTHER HEMATOLOGICAL AGENTS</b>	<i>Other hematological agents</i>

## C CARDIOVASCULAR SYSTEM

<b>CARDIAC THERAPY</b>	<i>A Cardiac glycosides</i> <i>B Antiarrhythmics, class I and III</i> <i>C Cardiac stimulants excl. cardiac glycosides</i> <i>D Vasodilators used in cardiac diseases</i>
<b>ANTIHYPERTENSIVES</b>	<i>A Antiadrenergic agents, centrally acting</i> <i>B Antiadrenergic agents, ganglion-blocking</i> <i>C Antiadrenergic agents, peripherally acting</i> <i>D Arteriolar smooth muscle, agents acting on</i> <i>K Other antihypertensives</i> <i>L Antihypertensives and diuretics in combination</i> <i>N Combinations of antihypertensives in ATC-gr. C</i>
<b>DIURETICS</b>	<i>A Low-ceiling diuretics, thiazides</i> <i>B Low-ceiling diuretics, excl. thiazides</i> <i>C High-ceiling diuretics</i> <i>D Potassium-sparing agents</i> <i>E Diuretics and potassium-sparing agents in combination</i> <i>X Other diuretics</i>
<b>PERIPHERAL VASODILATORS</b>	<i>Peripheral vasodilators</i>
<b>VASOPROTECTIVES</b>	<i>A Agents for treatment of hemorrhoids and anal fissures for topical use</i> <i>B Antivaricose therapy</i> <i>C Capillary stabilizing agents</i>
<b>BETA BLOCKING AGENTS</b>	<i>A Beta blocking agents</i> <i>B Beta blocking agents and thiazides</i> <i>C Beta blocking agents and other diuretics</i> <i>D Beta blocking agents, thiazides and other diuretics</i> <i>E Beta blocking agents and vasodilators</i> <i>F Beta blocking agents and other antihypertensives</i>
<b>CALCIUM CHANNEL BLOCKERS</b>	<i>A Selective calcium channel blockers with mainly vascular effects</i> <i>B Selective calcium channel blockers with direct cardiac effects</i> <i>C Non-selective calcium channel blockers</i> <i>D Calcium channel blockers and diuretics</i>
<b>AGENTS ACTING ON THE RENIN-ANGIOTENSIN SYSTEM</b>	<i>A ACE inhibitors, plain</i> <i>B ACE inhibitors, combinations</i> <i>C Angiotensin II antagonists, plain</i> <i>D Angiotensin II antagonists, combinations</i>
<b>LIPID MODIFYING AGENTS</b>	<i>A Lipid modifying agents, plain</i> <i>B Lipid modifying agents, combinations</i>

## D DERMATOLOGICALS

<b>ANTIFUNGALS FOR DERMATOLOGICAL USE</b>	<i>A Antifungals for topical use B Antifungals for systemic use</i>
<b>EMOLLIENTS AND PROTECTIVES</b>	<i>A Emollients and protectives B Protectives against UV-radiation</i>
<b>PREPARATIONS FOR TREATMENT OF WOUNDS AND ULCERS</b>	<i>A Cicatrizants B Enzymes</i>
<b>ANTI-PRURITICS, INCL. ANTIHISTAMINES, ANESTHETICS, ETC.</b>	<i>A Antipruritics, incl. antihistamines, anesthetics, etc.</i>
<b>ANTIPSORIATICS</b>	<i>A Antipsoriatics for topical use B Antipsoriatics for systemic use</i>
<b>ANTIBIOTICS AND CHEMOTHERAPEUTICS FOR DERMATOLOGICAL USE</b>	<i>A Antibiotics for topical use B Chemotherapeutics for topical use C Antibiotics and chemotherapeutics, combinations</i>
<b>CORTICOSTEROIDS, DERMATOLOGICAL PREPARATIONS</b>	<i>A Corticosteroids, plain B Corticosteroids, combinations with antiseptics C Corticosteroids, combinations with antibiotics</i>
<b>ANTISEPTICS AND DISINFECTANTS</b>	<i>A Antiseptics and disinfectants</i>
<b>MEDICATED DRESSINGS</b>	<i>A Medicated dressings</i>

## G GENITO URINARY SYSTEM AND SEX HORMONES

<b>GYNECOLOGICAL ANTIINFECTIVES AND ANTISEPTICS</b>	<i>A Antiinfectives and antiseptics, excl. combinations with cortico-steroids B Antiinfectives/antiseptics in combination with corticosteroids</i>
<b>OTHER GYNECOLOGICALS</b>	<i>A Oxytocics B Contraceptives for topical use C Other gynecologicals</i>
<b>SEX HORMONES AND MODULATORS OF THE GENITAL SYSTEM</b>	<i>A Hormonal contraceptives for systemic use B Androgens C Estrogens D Progestogens E Androgens and female sex hormones in combination F Progestogens and estrogens in combination G Gonadotropins and other ovulation stimulants H Antiandrogens X Other sex hormones and modulators of the genital system</i>
<b>UROLOGICALS</b>	<i>A Urologicals B Drugs used in benign prostatic hypertrophy</i>

## **H** SYSTEMIC HORMONAL PREPARATIONS, EXCL. SEX HORMONES AND INSULINS

<b>PITUITARY AND HYPOTHALAMIC HORMONES AND ANALOGUES</b>	<i>A Anterior pituitary lobe hormones and analogues B Posterior pituitary lobe hormones C Hypothalamic hormones</i>
<b>CORTICOSTEROIDS FOR SYSTEMIC USE</b>	<i>A Corticosteroids for systemic use, plain B Corticosteroids for systemic use, combinations C Antiadrenal preparations</i>
<b>THYROID THERAPY</b>	<i>A Thyroid preparations B Antithyroid preparations C Iodine therapy</i>
<b>PANCREATIC HORMONES</b>	<i>A Glycogenolytic hormones</i>
<b>CALCIUM HOMEOSTASIS</b>	<i>Parathyroid hormones and analogues B Anti-parathyroid agents</i>

## **J** ANTIINFECTIVES FOR SYSTEMIC USE

<b>ANTIBACTERIALS FOR SYSTEMIC USE</b>	<i>A Tetracyclines B Amphenicols C Beta-lactam antibacterials, penicillins D Other beta-lactam antibacterials E Sulfonamides and trimethoprim F Macrolides, lincosamides and streptogramins G Aminoglycoside antibacterials M Quinoloneantibacterials R Combinations of antibacterials X Other antibacterials</i>
<b>ANTIMYCOTICS FOR SYSTEMIC USE</b>	<i>A Antimycotics for systemic use</i>
<b>ANTIMYCOBACTERIALS</b>	<i>A Drugs for treatment of tuberculosis B Drugs for treatment of lepra</i>
<b>ANTIVIRALS FOR SYSTEMIC USE</b>	<i>A Direct acting antivirals</i>
<b>IMMUNE SERA AND IMMUNOGLOBULINS</b>	<i>A Immune sera B Immunoglobulins</i>
<b>VACCINES</b>	<i>A Bacterial vaccines B Viral vaccines C Bacterial and viral vaccines, combined X Other vaccines</i>

## **L** ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS

<b>ANTINEOPLASTIC AGENTS</b>	<i>A Alkylating agents B Antimetabolites C Plant alkaloids and other natural products D Cytotoxic antibiotics and related substances X Other antineoplastic agents</i>
<b>ENDOCRINE THERAPY</b>	<i>A Hormones and related agents B Hormone antagonists and related agents</i>
<b>IMMUNOSTIMULANTS</b>	<i>A Immunostimulants</i>
<b>IMMUNOSUPPRESSANTS</b>	<i>A Immunosuppressants</i>

## **M** MUSCULO-SKELETAL SYSTEM

<b>ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS</b>	<i>A Antiinflammatory and antirheumatic products, non-steroids B Antiinflammatory/antirheumatic agents in combination C Specific antirheumatic agents</i>
<b>TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN</b>	<i>A Topical products for joint and muscular pain</i>
<b>MUSCLE RELAXANTS</b>	<i>A Muscle relaxants, peripherally acting agents B Muscle relaxants, centrally acting agents C Muscle relaxants, directly acting agents</i>
<b>ANTIGOUT PREPARATIONS</b>	<i>A Antigout preparations</i>
<b>DRUGS FOR TREATMENT OF BONE DISEASES</b>	<i>Drugs affecting bone structure and mineralization</i>
<b>OTHER DRUGS FOR DISORDERS OF THE MUSCULO- SKELETAL SYSTEM</b>	<i>A Other drugs for disorders of the musculo-skeletal system</i>

## N NERVOUS SYSTEM

<b>ANESTHETICS</b>	<i>A Anesthetics, general B Anesthetics, local</i>
<b>ANALGESICS</b>	<i>A Opioids B Other analgesics and antipyretics C Antimigraine preparations</i>
<b>ANTIEPILEPTICS</b>	<i>A Antiepileptics</i>
<b>ANTI-PARKINSON DRUGS</b>	<i>A Anticholinergic agents B Dopaminergic agents</i>
<b>PSYCHOLEPTICS</b>	<i>A Antipsychotics B Anxiolytics C Hypnotics and sedatives</i>
<b>PSYCHOANALEPTICS</b>	<i>A Antidepressants B Psychostimulants, agents used for ADHD and nootropics C Psycholeptics and psychoanaleptics in combination D Anti-dementia drugs</i>
<b>OTHER NERVOUS SYSTEM DRUGS</b>	<i>A Parasympathomimetics B Drugs used in addictive disorders C Antivertigo preparations X Other nervous system drugs</i>

## P ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS

<b>ANTIPROTOZOALS</b>	<i>A Agents against amoebiasis and other protozoal diseases B Antimalarials C Agents against leishmaniasis and trypanosomiasis</i>
<b>ANTHELMINTICS</b>	<i>B Antitrepatodals C Antinematodal agents D Anticestodals</i>
<b>ECTOPARASITICIDES, INCL. SCABICIDES, INSECTICIDES AND REPELLENTS</b>	<i>A Ectoparasitocides, incl. scabicides B Insecticides and repellents</i>



## R RESPIRATORY SYSTEM

<b>NASAL PREPARATIONS</b>	<i>A Decongestants and other nasal preparations for topical use B Nasal decongestants for systemic use</i>
<b>THROAT PREPARATIONS</b>	<i>A Throat preparations</i>
<b>DRUGS FOR OBSTRUCTIVE AIRWAY DISEASES</b>	<i>A Adrenergics, inhalants B Other drugs for obstructive airway diseases, inhalants C Adrenergics for systemic use D Other systemic drugs for obstructive airway diseases</i>
<b>COUGH AND COLD PREPARATIONS</b>	<i>A Expectorants, excl. combinations with cough suppressants B Cough suppressants, excl. combinations with expectorants C Cough suppressants and expectorants, combinations D Other cold preparations</i>
<b>ANTIHISTAMINES FOR SYSTEMIC USE</b>	<i>A Antihistamines for systemic use</i>
<b>OTHER RESPIRATORY SYSTEM PRODUCTS</b>	<i>A Other respiratory system products</i>

## S SENSORY ORGANS

<b>OPHTHALMOLOGICALS</b>	<i>A Antiinfectives B Antiinflammatory agents C Antiinflammatory agents and antiinfectives in combination E Antiglaucoma preparations and miotics F Mydriatics and cycloplegics G Decongestants and antiallergics H Local anesthetics J Diagnostic agents K Surgical aids X Other ophthalmologicals</i>
<b>OTOLOGICALS</b>	<i>A Antiinfectives B Corticosteroids C Corticosteroids and antiinfectives in combination D Other otologicals</i>
<b>OPHTHALMOLOGICAL AND OTOLOGICAL PREPARATIONS</b>	<i>A Antiinfectives B Corticosteroids C Corticosteroids and antiinfectives in combination D Other ophthalmological and otological preparations</i>

## V Various

<b>ALLERGENS</b>	<i>A Allergens</i>
<b>DIAGNOSTIC AGENTS</b>	<i>B Urine tests C Other diagnostic agents</i>
<b>GENERAL NUTRIENTS</b>	<i>A Diet formulations for treatment of obesity B Protein supplements C Infant formulas D Other nutrients</i>
<b>CONTRAST MEDIA</b>	<i>A X-ray contrast media, iodinated B X-ray contrast media, non-iodinated C Magnetic resonance imaging contrast media D Ultrasound contrast media</i>
<b>DIAGNOSTIC RADIOPHARMACEUTICALS</b>	<i>A Central nervous system B Skeleton C Renal system D Hepatic and reticulo endothelial system E Respiratory system F Thyroid G Cardiovascular system H Inflammation and infection detection I Tumour detection X Other diagnostic radiopharmaceuticals</i>
<b>THERAPEUTIC RADIOPHARMACEUTICALS</b>	<i>A Antiinflammatory agents B Pain palliation (bone seeking agents) X Other therapeutic radiopharmaceuticals</i>
<b>SURGICAL DRESSINGS</b> <i>Bandages and dressings are used in wound management. A bandage is a piece of cloth or other material used to bind or wrap a diseased or injured part of body. Usually shaped as a strip or pad, bandages are either placed directly against the wound or used to bind a dressing to the wound. A dressing can consist of a wide range of materials, sometimes containing medication, placed directly against the wound.</i>	<i>Band aid Cast Charpie Collodion Cotton wool Dressing Elastoplasts Expendable supplies and material Gauze, gauze bandage Medical dressing</i>



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ALIMENTARY (GASTROINTESTINAL) TRACT AND METABOLISM - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ALIMENTARY (GASTROINTESTINAL) TRACT AND METABOLISM - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>BLOOD AND BLOOD FORMING ORGANS - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>BLOOD AND BLOOD FORMING ORGANS - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>CARDIOVASCULAR SYSTEM - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>CARDIOVASCULAR SYSTEM - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>DERMATOLOGICALS - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>DERMATOLOGICALS – 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug – Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>GENITO URINARY SYSTEM AND SEX HORMONES - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>GENITO URINARY SYSTEM AND SEX HORMONES - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>SYSTEMIC HORMONAL PREPARATIONS: EXCLUDING SEX HORMONES AND INSULINS - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>SYSTEMIC HORMONAL PREPARATIONS: EXCLUDING SEX HORMONES AND INSULINS - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ANTIINFECTIVES FOR SYSTEMIC USE - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ANTIINFECTIVES FOR SYSTEMIC USE - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ANTINEOPLASTIC AND IMMUNOMODULATING AGENTS - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>MUSCULO-SKELETAL SYSTEM - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>MUSCULO-SKELETAL SYSTEM - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>NERVOUS SYSTEM - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>NERVOUS SYSTEM - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ANTIPARASITIC PRODUCTS, INSECTICIDES AND REPELLENTS - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>RESPIRATORY SYSTEM - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>RESPIRATORY SYSTEM - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>SENSORY ORGANS - 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>SENSORY ORGANS - 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ALLERGENS – 1</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug – Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>ALLERGENS – 2</b>			
<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug – Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

**Pharmacological Classification****DIAGNOSTIC AGENTS - 1****Trade name of the drug****The chemical name of the active compound(s)****The chemical class of the active compound****The origin of the active compound**☐

Synthetic

☐

Natural

☐

Biologics

☐

Biotechnology

**Indication (Uses)****Pharmaceutical Dosage Forms****Route of Administration****Prescription Requirement**☐

Essential

☐

Nonessential

**Single/Daily dosis**

Single:

Daily:

**Treatment Time****Uses During Pregnancy**☐

Safe

☐

Risky/Dangerous

**Contraindications****Drug - Drug interactions****Patient Profile (age, gender)**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

**Pharmacological  
Classification****DIAGNOSTIC AND THERAPEUTIC AGENTS:  
RADIOPHARMACEUTICALS - 1****Trade name of the  
drug****The chemical name  
of the active  
compound****Investigation  
or  
Treatment of****Route of  
Administration****Imaging/non-  
imaging****Pharmacological  
Classification****DIAGNOSTIC AND THERAPEUTIC AGENTS:  
RADIOPHARMACEUTICALS - 2****Trade name of the  
drug****The chemical name  
of the active  
compound****Investigation  
or  
Treatment of****Route of  
Administration****Imaging/non-  
imaging**





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>HERBAL MEDICINES - PHYTOMEDICINES - PHYTOPHARMACEUTICALS - 1</b>	
<b>Trade name of the drug</b>		
<b>The chemical name of the active compound(s)</b>		
<b>The chemical classe(s) of the active compound(s)</b>		
<b>Binaomial Latin name(s) of the Medicinal Plant(s) Used in the</b>		
<b>Indication (Uses)</b>		
<b>Pharmaceutical Dosage Forms</b>		
<b>Route of Administration</b>		
<b>Single/Daily dosis</b>	Single:	Daily:
<b>Treatment Time</b>		
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe	<input type="checkbox"/> Risky/Dangerous
<b>Contraindications</b>		
<b>Drug - Drug interactions</b>		
<b>Patient Profile (age, gender)</b>		



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>HERBAL MEDICINES – PHYTOMEDICINES – PHYTOPHARMACEUTICALS - 2</b>	
<b>Trade name of the drug</b>		
<b>The chemical name of the active compound(s)</b>		
<b>The chemical classe(s) of the active compound(s)</b>		
<b>Binaomial Latin name(s) of the Medicinal Plant(s) Used in the</b>		
<b>Indication (Uses)</b>		
<b>Pharmaceutical Dosage Forms</b>		
<b>Route of Administration</b>		
<b>Single/Daily dosis</b>	Single:	Daily:
<b>Treatment Time</b>		
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe	<input type="checkbox"/> Risky/Dangerous
<b>Contraindications</b>		
<b>Drug – Drug interactions</b>		
<b>Patient Profile (age, gender)</b>		



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

PHA 590 PHARMACY PRACTICE

### NUTRACEUTICALS/FOOD SUPPLEMENTS - 1

<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

PHA 590 PHARMACY PRACTICE

### NUTRACEUTICALS/FOOD SUPPLEMENTS - 2

<b>Trade name of the drug</b>				
<b>The chemical name of the active compound(s)</b>				
<b>The chemical class of the active compound</b>				
<b>The origin of the active compound</b>	<input type="checkbox"/> Synthetic	<input type="checkbox"/> Natural	<input type="checkbox"/> Biologics	<input type="checkbox"/> Biotechnology
<b>Indication (Uses)</b>				
<b>Pharmaceutical Dosage Forms</b>				
<b>Route of Administration</b>				
<b>Prescription Requirement</b>	<input type="checkbox"/> Essential		<input type="checkbox"/> Nonessential	
<b>Single/Daily dosis</b>	Single:		Daily:	
<b>Treatment Time</b>				
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe		<input type="checkbox"/> Risky/Dangerous	
<b>Contraindications</b>				
<b>Drug - Drug interactions</b>				
<b>Patient Profile (age, gender)</b>				



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

#### Pharmacological Classification

#### MAGISTERIAL PRESCRIPTIONS - 1

**Trade name of the drug**

**The chemical name of the active compound(s)**

**The chemical classe(s) of the active compound(s)**

**Binaomial Latin name(s) of the Medicinal Plant(s) Used in the**

**Indication (Uses)**

**Pharmaceutical Dosage Forms**

**Route of Administration**

**Single/Daily dosis**

Single:

Daily:

**Treatment Time**

**Uses During Pregnancy**

☐ Safe

☐ Risky/Dangerous

**Contraindications**

**Drug - Drug interactions**

**Patient Profile (age, gender)**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

### PHA 590 PHARMACY PRACTICE

<b>Pharmacological Classification</b>	<b>MAGISTERIAL PRESCRIPTIONS - 2</b>	
<b>Trade name of the drug</b>		
<b>The chemical name of the active compound(s)</b>		
<b>The chemical classe(s) of the active compound(s)</b>		
<b>Binaomial Latin name(s) of the Medicinal Plant(s) Used in the</b>		
<b>Indication (Uses)</b>		
<b>Pharmaceutical Dosage Forms</b>		
<b>Route of Administration</b>		
<b>Single/Daily dosis</b>	Single:	Daily:
<b>Treatment Time</b>		
<b>Uses During Pregnancy</b>	<input type="checkbox"/> Safe	<input type="checkbox"/> Risky/Dangerous
<b>Contraindications</b>		
<b>Drug – Drug interactions</b>		
<b>Patient Profile (age, gender)</b>		

## **SECTION: II**

# **Pharmacy Management**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**ACCOUNTING**





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**AUXILIARY TOOLS USED IN PHARMACY**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**PHARMACIST AND PATIENTS RELATIONS  
PATIENT FOLLOW-UP**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**SHELF LIFE OF THE DRUG**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**PHARMACY AND DRUG STORES RELATIONS:  
STOCK CONTROL - DRUG ORDER**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**INTERNAL AUDIT PHARMACY**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**MEDULLA SYSTEM AND OTHER PHARMACY PROGRAMS USED  
IN COMMUNITY PHARMACY**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**ISSUE INVOICE (completing invoice on program)**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**PRESCRIPTION AND INVOICE DELIVERY TO SGK (Social  
Security Institution)**





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**TAX CALENDAR FOR COMMUNITY PHARMACIES**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**PHARMACY ON DUTY (if your pharmacy has no on duty; please  
get an experience in another pharmacy store)**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**COLD CHAIN SYSTEM FOR PHARMACY (observe and give  
examples)**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**EVALUATION FOR DESIGNING AND ORGANISING INTERIOR OF  
COMMUNITY PHARMACY STORE**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**PHARMACY  
MANAGEMENT**

**IMPORTANCE OF NON-PHARMACEUTICAL PRODUCTS FOR  
COMMUNITY PHARMACIES**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**TYPES OF RECIPES**

**A, B, C**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**TYPES OF RECIPES**

**RED**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590** PHARMACY PRACTICE

**TYPES OF RECIPES**

**GREEN**





## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**TYPES OF RECIPES**

**PURPLE**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

**TYPES OF RECIPES**

**ORANGE**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590 PHARMACY PRACTICE**

### **PERSONAL OBSERVATIONS - 1**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590** PHARMACY PRACTICE

### **PERSONAL OBSERVATIONS - 2**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590** PHARMACY PRACTICE

### **ADDITIONAL SUGGESTIONS & RECOMMENDATIONS - 1**



## NEAR EAST UNIVERSITY FACULTY OF PHARMACY

**PHA 590** PHARMACY PRACTICE

### **ADDITIONAL SUGGESTIONS & RECOMMENDATIONS - 2**