

Diagnosis and Management Internal Disorders
#1028 - Pharma Reactions

Title of Program: #1028 - Pharma Reactions
Times: Saturday 9:00 am to 6:00 pm, Sunday 9:00 am to 1:00 pm
Total CE hours: 12

Program Description:

This session provides an overview on the principles, practices, nomenclature, work-up and management of the patient in their relationship with pharmaceuticals.

Program Goals / Objectives:

At the end of this session, the student will have a detailed understanding of:

- Pharmacology and its divisions
- Positive and negative drug reactions
- Receptor theory
- Toxicology
- Drug mechanisms
- Drugs for ANS and CNS
- Cardiovascular drugs
- Anti-inflammatory drugs
- Antihistamines
- Gastrointestinal drugs
- Antimicrobial drugs
- Male and female system drugs
- Substance abuse
- Herb/drug interactions

Program Topics:

- Pharmacology and its divisions
- Positive and negative drug reactions
- Toxicology
- Drugs for ANS and CNS
- Cardiovascular drugs
- Anti-inflammatory drugs
- Antihistamines
- Gastrointestinal drugs
- Antimicrobial drugs
- Male and female system drugs
- Substance abuse
- Herb/drug interactions

Program Outline:

Saturday

9:00 am - 10:00 am

Pharmacology and its divisions

- Definitions
- Drug development
- Pharmacokinetics and pharmacodynamics
- Positive and negative drug interactions
- Toxicology

10:00 am – 11:00 am

Autonomic nervous system drugs

- Neurotransmitter receptor theory and drugs used in ANS
- Side effects and interactions with nutrients
- Pharmacogenetics
- Sympathetic and parasympathetic drugs used in internal disorders

11:00 am - 12:00 pm

Central nervous system

- CNS depressants
- CNS stimulants
- Behavioral drugs; anti anxiety and antidepressants
- Nutrient depletion of drugs
- General anesthetics and local anesthetics used in MUA

1:00 pm - 2:00 pm

Cardiovascular drugs

- Angina
- Congestive heart failure
- Hypertensive
- Side effects and actions on nutrients

2:00 pm - 3:00 pm

Antihistamine and anti-inflammatory drugs

- Prostaglandin actions and inhibition
- Interaction with CNS analgesics
- Adverse effects on ANS and CNS

3:00 pm - 5:00 pm

Gastrointestinal drugs

- Antacids and effects on pH changes on absorption

- Systemic actions and non-systemic effects
- Drug and nutrient absorption actions

5:00 pm – 6:00 pm

Antimicrobial drugs

- Mechanism of action
- Side effects on the kidney and organ systems
- Development of resistance

Sunday

9:00 am – 10:00 am

Female system drugs

- Hormone replacement
- GU system anti-cholinergic side effects
- Birth control pills side effects
- Drug-induced nutrient depletion

10:00 am – 11:00 am

Male system drugs

- Erectile dysfunction
- Prostate disorders
- Andropause conditions HRT

11:00 am – 12:00 pm

Substance abuse discussion

12:00 pm – 1:00 pm

Herb/drug interactions

Instructional Methods:

Lecture, practical demonstrations and case presentations

Assessment Methods:

Evaluate prescriptive medicines for their potential side effects, drug interactions, nutrient deficiencies as well as the effects they may have on laboratory testing for two patients. The evaluations must be submitted to the instructor within 2 weeks of Session 20.