

29225 - Clinical Nutrition and Pharmacology

Información del Plan Docente

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| Academic Year | 2016/17 |
| Academic center | 229 - Facultad de Ciencias de la Salud y del Deporte |
| Degree | 441 - Degree in Human Nutrition and Dietetics |
| ECTS | 10.0 |
| Course | 4 |
| Period | Annual |
| Subject Type | Compulsory |
| Module | --- |

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

5.2.Learning activities

5.3.Program

PHARMACOLOGY

THEORETICAL PROGRAM

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SECTION 1 : GENERAL PRINCIPLES OF PHARMACOLOGY

Chapter 1. Concept of Pharmacology. Definition and contents. Division of Pharmacology.

Chapter 2. Drug Absorption . Routes of drug administration.

Chapter 3. Drug Distribution.

Chapter 4. Elimination : Drug Metabolism . Drug Excretion .

Chapter 5. Pharmacodynamics.

Chapter 6. Adverse drug reactions (ADR).

SECTION 2: DRUGS ACTING ON AUTONOMIC NERVOUS SYSTEM AND PERIPHERAL NERVOUS SYSTEM

Chapter 7. Cholinergic Transmission. Cholinergic agent (Parasympathomimetics)

Chapter 8. Anticholinergic agents (Antimuscarinic agents). Neuromuscular blocking drugs

Chapter 9. Adrenergic Transmission. Adrenergic Drugs (Sympathomimetics)

Chapter 10. Adrenergic-receptor antagonists block the effects of sympathetic stimulation: Alpha blocker and Beta blockers

SECTION 3 : SPECIFIC PHARMACOLOGICAL GROUPS

Chapter 11. Pharmacology of gastric secretion. Medical and dietary treatment of peptic ulcer.

Chapter 12. Pharmacology of gastrointestinal motility. Medical and dietary treatment of constipation and diarrhea.

Chapter 13. Hypertension: medical treatment and diet

Chapter 14. Plasma lipid modifying agents.

Chapter 15. Nutritional anemia: iron deficiency anemia, vitamin B12 and folic acid deficiency anemia. Nutritional and therapeutic aspects

Chapter 16. Nonsteroidal anti-inflammatory drugs (NSAIDs)

Chapter 17. Steroids antiinflammatory drugs (Corticosteroids)

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Chapter 18. Diabetes Mellitus. Medical and dietary treatment of Diabetes Mellitus

Chapter 19. Anti-obesity drugs and treating of eating disorders (anorexia and bulimia)

SECTION 4 : DRUG- NUTRIENTS INTERACTIONS

Chapter 20. Influence of diet, nutrients and nutritional status on the efficacy and safety pharmacological response

Chapter 21. Influence of drugs on nutrients utilization and nutritional status

Chapter 22. Frequently Drug-Nutrients Interactions

PRACTICAL PROGRAM

- Workshop
- Problem-bases learning
- Clinic cases
- Laboratory
- Group work and presentation.

CLINICAL NUTRITION PROGRAM

General indications for nutritional support

Evaluation of artificial nutrition nutritional requirements.

Enteral nutrition. Selection criteria for enteral nutrition formulas.

Dietary fiber. Its application in enteral nutrition.

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Parenteral nutrition. Indications. Types of parenteral nutrition.

Nutrients in artificial nutrition. Metabolic complications of artificial nutrition. Artificial nutrition in Pediatrics.

Nutritional support in surgery.

Peripheral parenteral Nutrition.

Nutritional support in digestive diseases.

Nutritional support in surgical diseases.

Nutritional support in special circumstances: fasting, aggression, and critical situations (Polytraumatized, Sepsis, multiple organ dysfunction syndrome and burned patients).

Nutritional support and cancer.

Nutritional support in organ transplantation.

Home artificial nutrition.

Nutritional assessment in the elderly: scales and differences. Malnutrition in the elderly, consequences. Ethical aspects of malnutrition in the elderly.

5.4.Planning and scheduling

5.5.Bibliography and recommended resources