

Degree Course in Physiotherapy

INTEGRATED TEACHING: GERIATRICS

CFU: 5

SSD: MED/09, MED/16,MED/22, MED/24, MED/33 Coordinator: PROF.SSA FILOMENA PIETRANTONIO EMAIL: filomena.pietrantonio@unicamillus.org

MODULE: INTERNAL MEDICINE

CFU: 1

SSD: MED/09

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MODULE: RHEUMATOLOGY

CFU: 1

SSD: MED/16

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MODULE: VASCULAR SURGERY

CFU: 1

SSD: MED/22

PROFESSOR: PROF. ALESSANDRO BELLISARIO emai: alessandro.bellisario@unicamillus.org

MODULE: UROLOGY

CFU: 1

SSD: MED/24

PROFESSOR: PROF. FRANCESCO PINTO email: francesco.pinto@unicamillus.org

MODULE: LOCOMOTIVE SYSTEM DISEASES

CFU: 1

SSD: MED/33

PROFESSOR: PROF. COSIMO TUDISCO email: cosimo.tudisco@uniroma2.it

PREREQUISITES

INTERNAL MEDICINE

For a proper understanding, the student should have, but is not strictly mandatory, basic knowledge of cell biology, biochemistry, physiology and anathomy.

RHEUMATOLOGY

Although there are no preparatory prerequisites, notions of genetics, epigenetics and general pathology and the basic concepts of innate and acquired immune response and the basics of autoimmunity and inflammation are necessary. It is also necessary to have a good basic knowledge of human anatomy and physiology in particular of the musculoskeletal system.

VASCULAR SURGERY

Although there are no preparatory requirements, previous knowledge of basic anatomy and physiology is required



UROLOGY

Basic notions of anatomy and physiology of the male urinary and genital apparatus are needed, but these will be taken up and deepened during the lessons.

LOCOMOTIVE SYSTEM DISEASES

Although there are no preparatory prerequisites, good knowledge of human anatomy, joint physiology and kinematics applied to the musculoskeletal system are necessary. Knowledge of important notions on calcium/phosphorus methabolism, connective tissue histology and osteomethabolic processes (osteo-genetic and osteo-resorption) are also requested.

LEARNING OBJECTIVES

INTERNAL MEDICINE

The teaching of Internal Medicine examines the study of some of the main non communicable diseases and the basis of clinical methodolog.

RHEUMATOLOGY

Learning objective is the knowledge of common rheumatic diseases, of those rheumatic diseases that involve an emergency treatment, of socially relevant rheumatic diseases; recognition of symptoms and signs associated with rheumatic diseases; knowledge of the meaning red flags in rheumatology; to be able to evaluate the results of the most indicative laboratory parameters in the diagnostic iter of rheumatic diseases; knowledge of the correct use of imaging in rheumatology (X-rays, ultrasounds, magnetic resonance, computerized tomography, scintigraphy).

These objectives will be achieved through lectures aimed at improving the ability to address and resolve the main issues of Rheumatology field.

VASCULAR SURGERY

The course of Vascular Surgery aims to introduce the student to the basic knowledge of the various pathologies of the vascular system.

UROLOGY

- At the end of the course the student must be able to:Provide the main concepts of anatomy, physiology and pathophysiology of the male urinary and genital apparatus
- Know the devices of common use in urological patients and describe the assistance given to the person with urology pathology who needs rehabilitative physiotherapy.
- Develop diagnostic reasoning and care planning, referring to scientific evidence, in relation to physiotherapy assistance in the post-operative phases of the main urological interventions

LOCOMOTIVE SYSTEM DISEASES

Learning objective is the knowledge of common orthopaedic diseases, of traumatic lesions also these that involve an emergency treatment.

Recognition of symptoms and signs associated with guidelines associated with orthopaedic and traumatology; knowledge and correct use of imaging in orthopaedic and traumatology (X-rays, ultrasounds, magnetic resonance, computerized tomography, scintigraphy).

The knowledge of the orthopaedic and traumatology pathogenesis is mandatory to obtain a complete training on the diagnosis and treatment of musculoskeletal diseases and lesions.

These objectives will be achieved through lectures aimed at improving the ability to address and resolve the main issues of Orthopedic and Traumatology field.



LEARNING OUTCOMES

INTERNAL MEDICINE

Knowledge and understanding

At the end of the course the student will be able to:

- Know and explain the basis of clinical methodology
- Know and explain the global burden of diseases
- Know and explain cardiovascular diseases
- Know and explain the basis of the stroke
- Know and explain Pulmonary Obstructive Disease (COPD)
- Know and explain Diabetes.

Applying knowledge and understanding

At the end of the teaching the student will be able to cooperate with other healthcare providers in making decisions regarding diagnosis, treatment, and monitoring patient's conditions using laboratory testings in order to improve clinical outcomes at a greatly reduced costs.

Communication skills

At the end of the teaching the student will be able to use scientific terminology, specific for the the Internal Medicine and in the field of clinical research.

Making judgements

At the end of the course, the student must be able to carry out a rough assessment of the topics covered in Internal Medicine.

RHEUMATOLOGY

Knowledge and understanding

At the end of this course the student will have to know:

- The general mechanisms of innate and acquired immunity
- The main signs and symptoms and laboratory parameters in rheumatic diseases
- The imaging techniques in Rheumatology
- The classification of rheumatic diseases.
- Inflammatory arthritis
- Extra-articular rheumatisms
- Main connective tissue diseases
- Outline on pharmacological, rehabilitative and thermal therapeutic strategies in rheumatic diseases

Applying knowledge and understanding

At the end of the course the student will be able to:

- Use the knowledge acquired for an in-depth study of aspects relating to the specific field to which the student will dedicate himself in the context of his professional activity;
- Particular emphasis will be given to semeiotic reasoning and differential diagnostic framing

Communication skills

At the end of the course the student must:

- Use specific scientific terminology appropriately.
- Understand the specific nomenclature of vascular pathology



Making judgements

At the end of the course the student must:

- •. make general assessments of the topics covered.
- distinguish vascular pathologies by degree of urgency

VASCULAR SURGERY

Knowledge and understanding

At the end of this course the student will need to:

- Know the general and systematic pathology of the vascular system
- Distinguish the main diagnostic methods in current use.
- Know the various therapeutic approaches.

Applying knowledge and understanding

At the end of the course the student will be able to:

- Use the knowledge acquired for an in-depth study of aspects relating to the specific field to which the student will dedicate himself in the context of his professional activity;
- Particular emphasis will be given to semeiotic reasoning and differential diagnostic framing

Communication skills

At the end of the course the student must:

- Use specific scientific terminology appropriately.
- Understand the specific nomenclature of vascular pathology

Making judgements

At the end of the course the student must:

- •. make general assessments of the topics covered.
- distinguish vascular pathologies by degree of urgency

UROLOGY

knowledge and understanding

- At the end of this teaching the student will need to know: Know the main concepts of anatomy, physiology and pathophysiology of the male urinary and genital apparatus
- Knowing how to recognize the main male urological and genital pathologies, in particular
- Know the main urological surgical procedures and, consequently, have notions on postoperative physiotherapy management
- Know the devices of common use in urological patients (urostomies, catheters, drainages etc.)

Applying knowledge and understanding

At the end of the course the student will be able to:

 Use the acquired knowledge to be able to recognize the main urological pathologies and manage them from a physiotherapy assistance point of view in a hospital environment (inpatient ward), long-term care and home care.

communication skills

At the end of the course the student must know:

Use the acquired knowledge and specific scientific terminology for any training courses,
 Masters or other



making judgements

At the end of the course the student must know:

Carry out rough assessments of the topics covered

LOCOMOTIVE SYSTEM DISEASES

knowledge and understanding

At the end of this course the student will have to know:

- The main signs and symptoms and laboratory parameters in orthopedic diseases
- The main signs and symptoms in the traumatic musculoskeletal lesions
- The imaging techniques in orthopedics and traumatology
- The principal criteria of the classification of ortopedic diseases and traumatologic lesions
- the management of pharmacological, rehabilitative and thermal therapeutic strategies in orthopedic diseases and musculoskeletal lesions.

Applying knowledge and understanding

At the end of the course the student will be able to:

- Use the knowledge acquired for an in-depth study of aspects relating to the specific field to which the student will dedicate himself in the context of his professional activity;
- Particular emphasis will be given to semeiotic reasoning and differential diagnostic framing

Communication skills

At the end of the course the student must:

- Use specific scientific terminology appropriately.
- Understand the specific nomenclature of vascular pathology

Making judgements

At the end of the course the student must:

- •. make general assessments of the topics covered.
- distinguish vascular pathologies by degree of urgency

COURSE SYLLABUS

INTERNAL MEDICINE

Introduction to Non Communicable Diseases and clinical methodology Global burden of diseases

Cardiovascular diseases with particular attention to prevention programs
The pathophysiological bases of stroke cerebri, risk factors and clinical pictures
Respiratory Failure and Pulmonary Obstructive Disease (COPD)
The bases of metabolic diseases with particular reference to Diabetes Mellitus

RHEUMATOLOGY

INTRODUCTION • Immunity and autoimmunity • Signs and symptoms of rheumatic diseases, laboratory tests • Imaging in Rheumatology • Classification of Rheumatic diseases; ARTHRITIS • Osteoarthritis and low-back pain • Inflammatory arthritis • Microcrystal arthritis, infectious arthritis • Spondylarthritis including Anchylosing spondylitis, psoriatic arthritis and enteropathic spondylarthritis • Rheumatoid arthritis; EXTRA-ARTICULAR RHEUMATISMS • Osteoporosis • Fibromyalgia • Localized muscle-tendon diseases: enthesopathy, tenosynovitis • Neurological and neurovascular diseases: root compression neuropathies, algodystrophy; CONNECTIVE



TISSUE DISEASES • Systemic lupus erythematosus, antiphospholipid syndrome, polymyositis dermatomyositis, systemic sclerosis, Sjogren syndrome, mixed connective tissue disease • Miscellaneous, Vasculitis and polymyalgia rheumatica; OUTLINE OF THERAPY: drugs, thermal and rehabilitation therapy in rheumatic diseases

VASCULAR SURGERY

The first part of the course will introduce the anatomy and physiology of the vascular systemIn the second part of the course the various pathologies of the arterial and venous vascular system will be addressed In the final part of the course clinical cases and relative treatment will be exemplified.

UROLOGY

- bases of anatomy of the uragenital apparatus and physiology of urination.
- Semeiotic bases of the urogenital system
- Symptoms and dysfunctions of the low urinary tract (retention and urinary incontinence)
- Pelvic floor rehabilitation therapy
- Main characteristics of tumors of the urogenital system and postoperative rehabilitation
- Bladder catheterization and other urinary drainages

LOCOMOTIVE SYSTEM DISEASES

Musculoskeletal system anatomy and histology, orthopedic terminology.

Traumatology. Major joints musculoskeletal traumatology: general concepts, physiopathology, clinical signs, instrumental examinations, therapeutic indications, early and late complications. Osteoporosis and fragility fractures. Principal pediatric orthopedic diseases. Upper limb and lower limb principal sports traumatology diseases, arthroscopic general concepts, cartilage lesions general concepts.

Orthopedics. Spine, upper limb and lower limb principal orthopedic diseases, degenerative osteoarthritis and principal degenerative joint diseases: general concepts, physiopathology, clinical signs, instrumental examinations, therapeutic indications, early and late complications.

COURSE STRUCTURE

INTERNAL MEDICINE

Lectures, presentation and interactive discussion of clinical scenarios, cooperative learning.

RHEUMATOLOGY

The Course is structured in 10 hours of frontal teaching, divided into lessons of 2, 4 or 5 hours according to the academic calendar.

VASCULAR SURGERY

The Teaching is structured in XX hours of frontal teaching, divided into 2-hour lessons based on the academic calendar. Lectures will include theoretical lessons and supplementary seminars on the covered topics.

During the lectures the topics contained in the module program will be illustrated and commented.

At the end of the theoretic lessons, clinical cases will follow.

UROLOGY

The course includes 10 hours of lectures, divided into 2 or 4 hour lessons based on the academic calendar.



LOCOMOTIVE SYSTEM DISEASES

The Course is structured in 10 hours of frontal teaching, divided into lessons of 2, 4 or 5 hours according to the academic calendar.

COURSE GRADE DETERMINATION INTEGRATED COURSE

INTERNAL MEDICINE

The evaluation of learning will be expressed in 30/30 divided as follows:

10/30 points for the personal elaboration

20/30 points for the oral examination

The evaluation will take into account:

- Knowledge and skills acquired during the course
- Active participation during lectures, clinical case simulations and cooperative learning done in the classroom
- Ability to re-elaborate the acquired knowledge in a personal and critical way
- Expressive properties of use, in particular, of specialized terminology.

RHEUMATOLOGY

The verification of the preparation of the students will take place through an oral test. During the oral examination the Examining Commission will assess the ability of the Student to apply the knowledge and will ensure that the skills are adequate to support and solve problems of a rheumatological nature. The following will also be assessed: making judgments, communication skills (communication skills) and learning skills (learning skills) as indicated in the Dublin descriptors

VASCULAR SURGERY

The assessment of the achievement of the objectives set by the module includes an oral test, consisting mainly of open-ended questions on topics covered in the course. In this way, it will be ascertained the student's knowledge and understanding of both the theoretical principles and their consequences in the clinical field.

UROLOGY

The verification of the preparation of the students includes a written test of admission to the oral exam, with 30 multiple choice questions and / or open questions. For each correct answer 1 point will be assigned. Students with an assessment equal to or greater than 18/30 will be admitted to the oral examination. During the oral exam, the examining commission will assess the student's ability to apply the knowledge and will ensure that the skills are adequate to manage problems of a urological nature.

LOCOMOTIVE SYSTEM DISEASES

The verification of the preparation of the students will take place through an oral test. During the oral examination the Examining Commission will assess the ability of the Student to apply the knowledge and will ensure that the skills are adequate to support and solve problems of a orthopaedic and traumatology nature. The following will also be assessed: making judgments, communication skills (communication skills) and learning skills (learning skills) as indicated in the Dublin descriptors.



READING MATERIALS

INTERNAL MEDICINE

Kaspi, Haucer, Fauci, Longo, Jameson, Lo Scalzo. Harrisons Manual of Medicine, 19th Edition (Harrison's Manual of Medicine) (English Edition)

Available also the Pocket Manual

McGraw-Hill Education / Medical; 19th Edition (2016)

ISBN 978-0-07-182852-9

Fred F. Ferri. Practical Guide to the care of the Medical Patient.

Mosby Elsevier (9th Edition) 2014

ISBN: 978-1-4557-4459-6

Raffaele Antonelli Incalzi. Medicina Interna per Scienze Infermieristiche Piccin Editore (2012) ISBN- 978-88-299-2114-0

Teaching material provided by the teacher during the lessons

RHEUMATOLOGY

- Rheumatology, Evidence-Based Practice for Physiotherapists and Occupational Therapists. Dziedzic & Hammond. Elsevier Churchill Livingstone, 2010
- Unireuma Reumatologia per studenti e medici di medicina generale. Valesini et al. Ed. Idelson Gnocchi, 2018

Walk-in appointments will be offered on Mondays from 9:30a.m. - 12:30 a.m., ground floor, Students' Counseling Office.

VASCULAR SURGERY

- 1) Lecture notes
- 2) Vascular and Endovascular Surgery, 6th Edition, Ian Loftus & Robert Hinchliffe, Elsevier

UROLOGY

- Lise M. Chirurgia per le professioni sanitarie. Padova: Ed.Piccin, Edizione IV, 2006, Volume
- Urologia, Cosa sapere di, Bassi P, 2006, Cortina Editore, Padova
- Manuale di Urologia e Andrologia, a cura del Collegio dei Professori di Urologia, 2010, Pacini Editore
- Evidence-Based Physical Therapy for the Pelvic Floor. 2nd Edition Bridging Science and Clinical Practice. Kari Bo Bary Berghmans Siv Morkved Marijke Van Kampen. Churchill Livingstone

LOCOMOTIVE SYSTEM DISEASES

- Mark D Miller, Jennifer A Hart, John M. MacKnight .Essential Orthopaedics. Saunders Elsevier (2010)
- Jon C. Thompson: Netter's Concise Orthopaedic Anatomy, Elsevier (2016)