

BSc in Physiotherapy

INTEGRADED COURSE TITLE: GERIATRICS
NUMBER OF ECTS CREDITS: 5
SSD : MED/09, MED/16, MED/22, MED/24, MED/33
MODULE CONVENOR : PROF. COSIMO TUDISCO
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MODULE: INTERNAL MEDICINE
NUMBER OF ECTS CREDITS: 1
SSD : MED/09
PROFESSOR : [FILOMENA PIETRANTONIO](#) e- mail : filomena.pietrantonio@unicamillus.org

MODULE: RHEUMATOLOGY
NUMBER OF ECTS CREDITS: 1
SSD : MED/16
PROFESSOR : [GIUSEPPE SCONOCCHIA](#) e- mail : giuseppe.sconocchia@unicamillus.org

MODULE: VASCULAR SURGERY
NUMBER OF ECTS CREDITS: 1
SSD : MED/22
PROFESSOR : [ALESSANDRO BELLISARIO](#) e- mail : alessandro.bellisario@unicamillus.org

MODULE: UROLOGY
NUMBER OF ECTS CREDITS: 1
SSD : MED/24
PROFESSOR : [MICHELE GALLUCCI](#) e- mail : michele.gallucci@unicamillus.org

MODULE: LOCOMOTIVE SYSTEM DISEASES
NUMBER OF ECTS CREDITS: 1
SSD : MED/33
PROFESSOR : [COSIMO TUDISCO](#) e- mail : cosimo.tudisco@unicamillus.org

PREREQUISITES

Although there are no preparatory qualifications, a good knowledge of human anatomy and physiology is necessary, in particular of biomechanics and joint physiology applied to the musculoskeletal system, the urinary and male genital systems. It is also necessary to possess notions of cellular biology, genetics, general pathology, the basic concepts of the innate and antigen-specific immune response, the basis of autoimmunity and inflammation.

LEARNING OBJECTIVES

The essential objectives are knowledge of common rheumatic diseases, rheumatic diseases that require emergency treatment, rheumatic diseases that are socially relevant in terms of spread and costs, recognizing the signs and symptoms associated with rheumatic diseases for the purposes of general diagnostic orientation and having awareness the meaning of red flags in rheumatology; know how to evaluate the results of the most indicative laboratory parameters in the diagnostic process of rheumatic



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diseases, know the correct use of imaging in rheumatology (X-rays, ultrasound, magnetic resonance imaging, computed tomography, scintigraphy).

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

Internal medicine includes the study of the main non-communicable diseases and clinical methodology.

The urology course will provide the main notions of anatomy, physiology and pathophysiology of the male urinary and genital system, knowledge of the devices commonly used in urological patients and the description of the assistance aimed at the person with urological pathology who requires rehabilitative physiotherapy. It will also help to 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.

Knowledge of orthopedic diseases and traumas of the musculoskeletal system are essential objectives of the orthopedics course.

It is essential to recognize the signs and symptoms associated with orthopedic diseases and traumas for the purposes of general diagnostic orientation and to be aware of the meaning of the guidelines in orthopedics and traumatology; know the correct use of imaging in orthopedics and traumatology (X-rays, ultrasound, magnetic resonance imaging, computed tomography, scintigraphy).

Knowledge of the pathogenesis of orthopedic pathologies and skeletal trauma is considered of fundamental importance to frame and make students understand the various therapeutic possibilities available to them.

LEARNING OUTCOMES

Knowledge and Understanding

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

- Know and explain the basics of clinical methodology
- Know and explain the global burden of diseases
- Know and explain cardiovascular diseases
- Know and explain cerebri stroke
- Know and explain Obstructive Pulmonary Disease (COPD)
- Know and explain Diabetes
- Know the general mechanisms of innate and acquired immunity
- Know the main signs and symptoms and laboratory parameters in rheumatic diseases.
- Know the imaging techniques in Rheumatology.
- Know the classification criteria for rheumatic diseases.
- Know about inflammatory arthritis
- Know extra-articular rheumatism
- Know the main connective tissue diseases
- Outline pharmacological, rehabilitative and thermal therapeutic strategies in rheumatic diseases
- Know the general and systematic pathology of the vascular system
- Distinguish the main diagnostic methods in current use.
- Know the various therapeutic approaches.
- Know the main notions of the anatomy, physiology and pathophysiology of the male urinary and genital system
- Know how to recognize the main urological and male genital pathologies
- Know the main urological surgical procedures and, consequently, have knowledge of post-operative physiotherapy management



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- Know the devices commonly used in urological patients (urostomies, catheters, drainage etc..)
- The main signs, symptoms and laboratory parameters in orthopedic diseases
- The main signs and symptoms in traumatic musculoskeletal injuries
- Imaging techniques in orthopedics and traumatic musculoskeletal injuries
- The classification criteria of the main orthopedic diseases and traumatic musculoskeletal injuries
- How to outline pharmacological, surgical and rehabilitative therapeutic strategies in orthopedic diseases and musculoskeletal injuries

Applying knowledge and understanding

At the end of the course the student will be able to perform a basic assessment of the patient with chronic diseases and make decisions regarding the diagnosis, treatment and monitoring of the patient's condition in order to improve clinical outcomes at significantly reduced costs. He will be able to use the knowledge acquired to be able to recognize the main urological pathologies and manage them from a physiotherapy point of view in a hospital environment (inpatient ward), long-term care and home care. More generally, they will be able to use the knowledge acquired for the independent study of aspects relating to the specific field to which the student will dedicate themselves in the context of their professional activity.

Communication skills

At the end of the course the student will have to know how to use specific scientific terminology appropriately.

Making judgements

At the end of the course the student will be able to make general assessments relating to the topics covered.

COURSE SYLLABUS

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

Syllabus 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 Ankylosing 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



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and polymyalgia rheumatica; OUTLINE OF THERAPY: drugs, thermal and rehabilitation therapy in rheumatic diseases

Syllabus Vascular Surgery

The first part of the course will introduce the anatomy and physiology of the vascular system. In 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.

Syllabus Urology

Bases of anatomy of the urogenital 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

Syllabus 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

The teaching is structured in 50 hours of frontal teaching, divided into 2, 3 or 4 hour lessons based on the academic calendar. The frontal teaching includes theoretical lessons and supplementary seminars on the topics covered.

COURSE GRADE DETERMINATION

The verification of the preparation will take place through an oral test, during which the examining commission will evaluate the student's ability to apply the knowledge and will ensure that the skills are adequate to support and resolve problems of a rheumatological, orthopaedic, vascular, urological and internal medicine. The following will also be assessed: making judgments, communication skills and learning skills as indicated in the Dublin descriptors.

The evaluation of learning from the subject Internal Medicine will be expressed in 30/30 divided as follows:

10/30 points for the personal essay/thesis

20/30 points for the oral exam

The evaluation will take into account:

- Knowledge and skills acquired during the course
- Active participation during lessons, clinical case simulations and cooperative learning carried out in the classroom



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- Ability to rework the knowledge acquired in a personal and critical way
- Expressive properties of use, in particular, of specialist terminology.

The final vote will be determined collectively by the Commission considering the results of the various modules.

READING MATERIALS

INTERNAL MEDICINE

Kaspi, Haucer, Fauci, Longo, Jameson, Lo Scalzo. Harrison's 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 2
- 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).

