



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Anatomy of The Locomotor System

2324-3-H4102D018-H4102D050M

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#### Aims

The objectives of the course are to provide expertise in normal anatomy of musculo skeletal system. Teaching will include reference to topographic, radiologic, clinical anatomy and clinical cases.

#### Contents

The primary goal of the course is to provide a good knowledge of MSK anatomy for a correct assessment of the traumatic and degenerative pathologies affecting the MSK system.

#### Detailed program

##### GENERAL ANATOMY

The different approaches to the study of human anatomy: gross anatomy; topographic, regional, radiological, clinical anatomy.

Anatomical terminology: planes, axes, lines and anatomical landmarks; terms of position, terms related to movements.

##### *UPPER AND LOWER LIMBS*

Detailed knowledge of all the bones, joints and muscles.

Relation to blood vessels, nerves

## **MUSCULAR-SKELETAL SYSTEM (LOCOMOTOR)**

Classification of bones, muscles and joints, their general structure and function.

*Vertebral column.* General characteristics of the vertebrae and regional differences. Atypical cervical vertebrae: atlas and axis. Atlanto-occipital and atlanto-axial joints. Other joints of the vertebral column. General features of the muscles of the back.

*Shoulder girdle and upper limb.* Anatomical characteristics of the different bones. Shoulder, elbow, radio-ulnar, wrist joints, general features of the other joints. Muscles of the shoulder, the rotator cuff; arm, forearm and hand muscles.

*Pelvis and lower limb.* Morphological feature of hip bones in detail, and of the other bones of the lower limb. Joints and ligaments of the pelvis, hip, knee; tibio-fibular, ankle and tarsal joints; general features of the other joints. Hip, thigh, leg and foot muscles. Scarpa's triangle and adductor canal. Femoral sheath and femoral canal.

### **Prerequisites**

College-level scientific knowledge

### **Teaching form**

Frontal lessons, clinical case simulations. Video of MSK dissections, MSK imaging of clinical relevance.

### **Textbook and teaching resource**

For textbooks and teaching resources see General Syllabus of "Fondamentals of human morphology".

### **Semester**

from 2.10.2023 to 9.10.2023

### **Assessment method**

Multiple choice tests

Final locomotor vertical track test:

A written test with 33 multiple-choice containing anatomical questions each with only one correct answer and 1 open question. No penalties will be given to missing or wrong answers.

## **Office hours**

Mon-Fri, by appointment at San gerardo Hospital, Monza.

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY

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