UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# SYLLABUS DEL CORSO

# Urology

**2223-4-H4102D029-H4102D112M**

## Aims

The course will provide the essential and up-to-date theoretical knowledge of the clinical diagnosis and management of the most common urological diseases and syndromes. The course will focus on epidemiology, diagnosis and treatment of the most common urological pathologies. Moreover, signs and symptoms, clinical management and therapeutic options of urological diseases will be described, addressing the learning needs for general medical practice.

## Contents

The lessons will cover the most important urological syndromes: benign prostatic hyperplasia and other causes of bladder outlet obstruction, urinary stones and other causes of upper urinary tract obstruction. Students will acquire the basic knowledge required to diagnose and manage the main uro-oncological pathologies: prostate, kidney, bladder and testicular cancers. Urinary infection and andrological disorders will be covered within the Clerkship 7 teaching. Urological emergency will be covered within the Emergency course. All these arguments will be considered part of the required knowledge.

## Detailed program

- Physical examination in urology

- Diagnostic tools in urology: laboratory tests, imaging tools, invasive procedures.

- Anatomy of the kidney, of the bladder, of the upper urinary tract and of the prostate.

- Physiology and physiopathology of the bladder emptying: benign prostatic hyperplasia (BPH) and lower urinary tract symptoms (LUTS); other causes of bladder dysfunction (bladder neck sclerosis and urethral strictures).

- Prostate cancer

- Kidney cancer (benign and malignant)

- Upper tract urothelial cancer

- Bladder cancer

- Testicular cancer

- Kidney and ureteral stones (upper urinary tract obstructive syndrome)

- Urinary tract infection. orchitis, acute prostatitis

- Congenital disorders: pyeloureteral junction obstruction, vesicle-ureteral reflux, horseshoe kidney, hypospadia

- Emergency: kidney, ureteral and bladder trauma, urethral and testicular trauma

- Emergency: testicular torsion, acute urinary retention, obstructive anuria.

- Andrology: erectile disfunction, induratio penis plastica and recurvatum of the penis, varicocele, hydrocele.

## Prerequisites

Basic knowledge of fundamentals of biology, genetics, morphology, histology, physiology of the uro-genital system.

## Teaching form

Frontal lessons with audio-visual aids and open discussion in the classroom.

Based on the Covid-19 pandemic trend, lessons could take place in a mixed mode: partial presence and asynchronous/synchronous videotaped lessons.

## Textbook and teaching resource

- Smith and Tanagho's General Urology - 18th Edition - LANGE Editore

## Semester

Second semester

## Assessment method

(1) **Written exam** with multiple choice quiz comprising 30 questions with only one correct answer, aimed at evaluating global comprehension of course program. Each correct answer is scored 1. A *minimum score of 18* is required for being admitted to oral examination

(2) **Oral examination** (discussion on topics covered during the lectures or clinical case analysis)

Based on the Covid-19 pandemic trend, exams could be telematic only.

## Office hours

By email appointment at luigi.dapozzo@unimib.it

## Sustainable Development Goals