UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Anatomy of The Endocrine System and Urinary Tract

2425-4-H4102D029-H4102D182M

Aims

The course aims to consolidate the knowledge of normal, topographic and surgical anatomy of the endocrine system and urinary tract, focusing on the correlations between anatomy and clinical and surgical practice.

Contents

The lessons will cover the most important fields of the endocrine and urological anatomy. Students will acquire the specific knowledge required to understand the anatomy of the endocrine and urinary system and their relationships with clinical and surgical practice.

Detailed program

- Anatomy of the pelvis: bones and muscles, vascular supplies of the pelvis, lymphatic drainage of the pelvis.

- Normal and topographic anatomy of the badder and the prostate. Blood supply, innervation, lymphatic drainage.

- Zonal anatomy of the prostate.

- Anatomy of the urethra: 1) Posterior urethra, urethral sphincters. Functional mechanisms regulating micturition, urinary continence and ejaculation. 2) Anterior urethra. Brief description of the causes, diagnostic methods and treatment of the urethral strictures

- Anatomy of the penis. Relationships between anatomy of the penis and physiology of the erection, Peyronie's disease and penile fractures.

- Anatomy of the scrotum.

- Anatomy of the testis and epididymis. Vascular supply, vascular drainage, lymphatic drainage. Anatomical bases of varicocele.

- Anatomy of the spermatic cord. The vas deferens.

- Microstructure of the testis;

- Spermatogenesis: spermatids and spermatozoa

- Anatomy of the hypophysis. Hypothalamus-pituitary-gonadal axis.

- Normal and topographic anatomy of the kidney, renal pelvis and calyces, ureters. Vascular supply and venous drainage.

- Urinary tract abnormalities.

- Normal and topographic anatomy of the adrenal glans. Blood supply and venous drainage. Microstructure of the adrenal glans.

- Lymph node dissection templates for prostate cancer, bladder cancer, testis cancer, penile cancer, upper urinary tract cancer.

- Anatomy of the thyroid gland

Prerequisites

Basic knowledge of fundamentals of anatomy, histology, and physiology of the uro-genital system.

Teaching form

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

Textbook and teaching resource

- Frank H Netter; Atlas of Human Anatomy, Elsevier
- Gray's Anatomy. The Anatomical Basis of Clinical Practice, Elsevier
- All the slides and teaching material presented during the frontal lessons will be shared with the students

Semester

Second semester

Assessment method

The exam foresees the quiz mode and will be carried out in integrated mode according to the modality envisaged by the vertical layout

For detailed exam modalities see the Syllabus of Endocrine, Kidney ad Urinary Tract Diseases course.

Office hours

By appointment. To be scheduled with Dr. Roscigno via e-mail.

Sustainable Development Goals

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