

Faculty of Medicine



MEDI2201 Urology and Nephrology (including radiology, pathology and pharmacology)

[83.5h] 7 credits

This course is taught in the 1st semester

Teacher(s): Jean-Pierre Cosyns, Olivier Devuyt, Axel FEYAERTS, Eric Goffin, Yves Horsmans, Michel Jadoul, Francis Lorge, Jean-Marie Maloteaux, Reinier-Jacques Opsomer, Yves Pirson, Etienne Sokal, Bertrand Tombal, Bernard Van Beers, Paul Van Cangh (coord.), François-Xavier Wese

Language: French

Level: Second cycle

Aims

Key concepts in main uro-nephrological disorders (kidney, urinary tract and male genital diseases), with focus on the most frequent and the most relevant ones in terms of morbidity-mortality, taking into account their age-related specificities. Through an integrated medico-surgical approach, diagnostic problems (clinical, imaging and pathological aspects) and current treatment of the main diseases are learned, as well as tools for future continuous medical education.

Secondary objective: urology and nephrology complements

Main themes

Medical pathology (nephrology including paediatric nephrology) and surgical pathology (urology including paediatric urology). The course also encompasses pathology, pharmacology and pharmacotherapy, as well as diagnostic imaging related to the main content.

Small group seminars: Differential diagnoses in nephrology; urinary lithiasis.

Content and teaching methods

These courses use formal ex-cathedra lectures as well as small group seminars.

Urology (including paediatric urology) - Introduction (urological examination) - Congenital anomalies - Functional problems in urology: micturition disorders and erectile dysfunction - Urinary lithiasis - UTI's : urinary tract infections - Urogenital tumors including benign prostatic hypertrophy (BPH), urothelial tumors, renal cell carcinoma (RCC), prostate carcinoma, testicular cancers, Tumors in children - Genitalia

Nephrology: Chronic renal insufficiency - Diagnostic procedures in nephrology - Glomerular nephropathy - Urinary tract infection - Chronic interstitial nephritis - Hypertension - Vascular nephropathies - Kidney and pregnancy - Kidney and dysglobulinemia - Hereditary nephropathies - Acute renal insufficiency - Substitutive therapy of chronic renal insufficiency. Paediatric nephrology: nephrotic syndrom, urinary tract infection in children - pyelonephritis - renal insufficiency, acute & chronic, aetiology and semiology.

Imaging: illustration of major lesions of urogenital tract with specific indications and limits of each test in order to prepare future physician to the optimal use of medical imaging.

Pathology: essential bases to establish relationships between macroscopic and microscopic aspects of lesions and their clinical manifestations.

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Evaluation: 1° at the end of the first trimester, evaluation of knowledge by QCM and QROC tests. 2° at the end of the year, oral test to evaluate the ability to solve a clinical problem.

Study material and course books: annually updated