

SYLLABUS DEL CORSO

Nefrologia B

1819-3-H4101D260-H4101D066M

Aims

NEPHROLOGY:

To provide evidence-based knowledge of the main medical diseases of the kidney and urinary tract. Ability to define the degree of renal function, to understand the major lab and diagnostics tests and ability in defining a diagnostic pathway. Knowledge of the main methods of renal replacement therapy: dialysis and transplantation

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

1. Know aetiology, pathogenesis, clinical manifestations, complications and prognosis of the main renal diseases.
2. Evaluate correctly patient history and physical examination in order to classify the nephropathy.
3. Interpret lab tests and diagnostic investigations in order to diagnose kidney diseases.
4. Know the main pathological pictures of glomerulonephritis, vascular, tubulo-interstitial and cystic diseases of the kidney.
5. Know the complications of kidney and urinary tract diseases and the physiopathology and clinical aspects of renal failure, including renal replacement therapy (dialysis and transplantation).

Contents

To use the knowledge of Anatomy, Physiology, Biochemistry and others basic disciplines in dealing with organ and/or apparatus pathologies.

To be able to critically evaluate the commonly used diagnostic methods in medical practice.

To recognize the signs and symptoms of major diseases, to understand the results of laboratory and instrumental tests. To know the pathogenesis and prognosis of the handled diseases.

Detailed program

NEPHROLOGY

DIAGNOSIS OF RENAL DISEASES

- Evaluation of renal function parameters (glomerular filtration, tubular function, renal blood flow), urine test and sediment

- Signs/symptoms of renal diseases: nephrological syndromes

- Diagnostic measures: ultrasound, xray, others

- Kidney biopsy

- GLOMERULAR DISEASES (GN)
- Classification, aetiology, pathogenesis
- Primary GN (clinical manifestations and histology)
- Nephrotic and nephritic syndromes (aetiology, pathology and complications)
- Rapidly progressive glomerulonephritis
- Secondary GN (lupus, vasculitis, diabetes)

PLASMA CELL DYSCRASIA

- Myeloma kidney, amyloidosis, gammopathy
- VASCULAR NEPHROPATHIES
- Nephrosclerosis
- Renal artery stenosis (renovascular hypertension): aetiology, pathogenesis, diagnosis, elements of suspicion)
- TUBULO-INTERSTITIAL NEPHRITIS
- Acute and chronic tubulo-interstitial nephritis
- Reflux nephropathy

WATER AND ELECTROLYTES DISORDERS

- Sodium and fluid retention, oedema pathogenesis; volume depletion
- Hyponatremia and Hypernatremia

- Potassium and acid-base equilibrium disorders
- Disorders of calcium/phosphorus and Mg
- KIDNEY AND URINARY TRACT INFECTION
- Acute and chronic pyelonephritis
- MALFORMATIVE/HEREDITARY DISEASES
- Polycystic, medullary sponge, nephronophthisis
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- ACUTE KIDNEY INJURY

- Classification, aetiology and pathogenesis

- Clinical aspects, diagnosis and prevention

- CHRONIC KIDNEY DISEASE
- Aetiology, physiopathology, metabolic alterations
- Prevention and monitoring: populations at risk, renal disease progression factors and measures to halt worsening
- Renal replacement therapy (haemodialysis, peritoneal dialysis, transplantation)

Gender differences in prevalence, clinical manifestations, outcome, treatment response of nephropathies and chronic kidney disease will be specifically addressed.

Palliative care for patients with advanced chronic kidney disease and pain management in patients with chronic kidney disease will also be handled

Prerequisites

See "Patologia medico-chirurgica 3"

Teaching form

See "Patologia medico-chirurgica 3"

Textbook and teaching resource

See "Patologia medico-chirurgica 3"

Semester

Assessment method

See "Patologia medico-chirurgica 3"

Office hours
