

COURSE OF MEDICINE AND SURGERY
Student Handbook a.y. 2015-2016

SYSTEMIC PATHOLOGY II

Course of Medicine and Surgery 2015-2016

IV year	Scientific Field	DISCIPLINE	TUTOR
Prof. Mario Angelico Coordinator	MED/12	Gastroenterology	<i>Angelico Mario</i>
	MED/12	Gastroenterology	<i>Baiocchi Leonardo</i>
	MED/12	Gastroenterology	<i>Fantini Massimo Claudio</i>
	MED/13	Endocrinology	<i>Lauro Davide</i>
	MED/13	Endocrinology	<i>Jannini Emmanuele A.</i>
	MED/13	Endocrinology	<i>Frontoni Simona</i>
	MED/14	Nephrology	<i>Tozzo Carmela</i>
	MED/14	Nephrology	<i>Manca di Villahermosa Simone</i>
	Med/24	Urology	<i>Miano Roberto</i>
	Med/24	Urology	<i>Di Stasi Savino Mauro</i>
	Med/18	General Surgery	<i>Manzia Tommaso Maria</i>
	Med/49	Applied Dietetic Technical Sciences	<i>Di Renzo Laura</i>

Specific aims Achieve a systematic knowledge of the most relevant diseases affecting the different systems, from the nosographic, etiological, pathophysiological and clinical point of view, in the context of a unified and global vision of human pathology. To acquire the ability to critically evaluate and correlate clinical symptoms, physical signs, and functional abnormalities with anatomopathological lesions.

GENERAL OBJECTIVES:

- A) Knowledge of the nosographic framework and the clinical presentation
- B) Knowledge of the essential pathogenetic steps
- C) Knowledge of the natural history of the disease and major complications
- D) Ability to diagnose the pathological conditions considered
- E) Knowledge of the principles of pathophysiology and therapy
- F) Ability to provide first-level medical assistance
- G) Ability to perform common medications
- H) Ability to critically read a scientific paper and understand the basic principles to project a clinical research protocol.

PROGRAM
Gastroenterology

Knowledge of the clinical and etiological classification, the key of pathogenetic steps, types of clinical presentations and complications. The diagnostic procedures of the following diseases: autoimmune and viral chronic hepatitis, alcohol –induced liver damage, non-alcoholic-fatty-liver disease (NAFLD), Hemochromatosis, Wilson disease, liver cirrhosis, hepatocellular carcinoma (HCC), gallstone disease, acute and chronic cholestasis, acute and chronic pancreatitis, acid-related upper GI tract diseases, drug- induced gastric disease, functional diseases of the GI tract, diverticular disease, celiac disease and malabsorption syndromes, pre-neoplastic and neoplastic diseases of GI tract, inflammatory bowel disease. Autoimmune and viral chronic hepatitis, alcohol –induced liver damage, Non-Alcoholic-Steato-Hepatitis (NASH), Hemochromatosis, Wilson disease, portal hypertension, liver cirrhosis; Hepatocellular Carcinoma (HCC), gallstone disease, acute and chronic cholestasis, acute and chronic pancreatitis. Acid-related upper GI tract diseases. Drug- induced gastric disease. Functional diseases of the GI tract. Diverticular disease. Celiac disease and malabsorption syndromes. Pre-neoplastic and neoplastic diseases of GI tract.

PROGRAM
Endocrinology & Med Sexology

In agreement with the Educational goals (G.U. No. 155 of July 9, 2007 - DM 16 March 2007) of the Courses in medicine and surgery - LM-41, at the end of the course to student shall have acquired: <<the knowledge of the pathophysiological, clinical and psychological aspects of (...) sexuality and its dysfunctions in terms of medical sexology>>, and the ability to recognize and manage the major endocrine and metabolic diseases, identifying the conditions that need the professional specialist. Biology of seduction and copulation; Sexual orientation, gender identity, abnormalities of sexual differentiations and transsexualism. Female sexual dysfunction (HSDD, vaginismus, dyspareunia, anorgasmia, PGAD); Male sexual dysfunction (HSDD, erectile dysfunction, premature/delayed/retrograde ejaculation); Hypogonadisms, gonadal diseases, infertility and endocrine and metabolic diseases in pregnancy; Psychoneuroendocrinology, disorders of hypothalamus and pituitary (puberty, growth, lactation, etc); Thyroid pathology (hypo and hyperthyroidisms, goiter, thyroiditis, cancer); Neurohypophysis (diabetes insipidus, SIADH), calciotropic hormones and bone metabolism; Adrenal diseases (Addison, Cushing, CAI); Autoimmune endocrine diseases, MEN, neuroendocrine tumors, endocrine hypertension; Thinness, metabolic syndrome and obesity; Hypoglycemic disorders,

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diabetes.

Other metabolic disorders (dyslipidemias, gut, aminoacidic disorders).

PROGRAM

Urology

To reach specific knowledge of the pathophysiology and the clinical pictures of the main urological diseases. To overview the most updated surgical and medical urological therapies. To learn how to approach the urological patients and perform basic outpatient procedures. Anatomy of the genitourinary tract. Diagnosis and management of urinary tract infection and sexually transmitted diseases including cystitis, epididymitis, prostatitis and urethritis. Diagnosis and management of haematuria. Testicular torsion. PSA screening. BPH. Diagnosis/staging/management of prostate cancer. Diagnosis/staging/management of bladder and upper urinary tract cancer. Diagnosis/staging/management of testicular cancer. Diagnosis/staging/management of renal cancer. Urologic trauma. Phymosis and paraphymosis. Vesico-urethral reflux. Hypospadias. Undescended testis. Hydrocele. Male infertility. Varicocele. Diagnosis and management of urinary incontinence. Diagnosis and management of impotence. Diagnosis and management of renal, ureteric and bladder calculi. Clinical practice: Medical history taking in Urology. Physical examination in Urology including DRE. Testicular examination. Insertion of urethral catheter. Carry out and interpret urine analysis. Interpretation of: plain radiograph of kidney; ureter and bladder ; urinary flow rate; CT of abdomen and pelvis; ultrasonography of the kidney, ureters and bladder; semen analysis.

PROGRAM

Nephrology

Basic knowledge of main renalglomerular, tubular, interstitialandvascular diseases. Fluid, electrolyte and acid/base balance. Diagnosis of chronic renal failure and indication to renal replacement therapy. Complications of chronic kidney disease. Clinical semeiology, laboratory findings and imaging in nephrology. Pathophysiology of fluid, electrolyte and acid/base balance. Nephritic and nephrotic syndromes. Primary glomerular nephropathies. Tubulointerstitial nephropathies. Vascular nephropathies. Cystic kidney diseases. Acute and chronic renal failure, complications of chronic kidney disease. Renal replacement therapies.

PROGRAM

Applied Tech Diet Sciences

Assessment of nutritional status and energy requirements. Principles of diet therapy. Nutrition and non communicable diseases. Principles of nutritional genomics.

PROGRAM

General Surgery

Introduction to surgery. Know the general criteria: pre-operative assessment of patients and major post-operative complications; Principles of clinicaldiagnostics, principles of diagnosticimaging; shock and general surgerytechniques; the treatment of surgicalwounds; anatomical and pathophysiologicalbases of pathology of abdominalwall; General information onlivertransplantation, kidney, pancreas. Preoperative evaluation of the surgicalpatients; Principles of clinicaldiagnostics, principles of diagnosticimaging. Post-operative complications. Inguinalhernia, umbilicalhernia, incisionalhernia, hemorrhagic shock, acute abdomen. Benign and malignanttumors of the liver and biliarytract (etiology, signs and symptoms, diagnosis and treatment). Benign and malignanttumors of the pancreas (etiology, signs and symptoms, diagnosis and treatment). Gallbladderand bile ductstones (etiology, signs and symptoms, diagnosis and treatment). Acute and chronicpancreatitis (etiology, signsandsymptoms, diagnosis and treatment). Livertransplantation (indications, surgicaltechniques, complications). KidneyTransplantation (indications, surgicaltechniques, complications). Principles of pancreas transplantation.

Textbooks

Gastroenterology: Harrison's Principles of Internal Medicine. **Endocrinology:** from the Merk Manual, professional edition (free download). For each, see related links:
<http://www.merckmanuals.com/professional/endocrine-and-metabolic-disorders>
<http://www.merckmanuals.com/professional/psychiatric-disorders/sexuality-gender-dysphoria-and-paraphilias/overview-of-sexual-behavior>
<http://www.merckmanuals.com/professional/psychiatric-disorders/sexuality-gender-dysphoria-and-paraphilias/gender-dysphoria-and-transsexualism>
<http://www.merckmanuals.com/professional/genitourinary-disorders/male-sexual-dysfunction/overview-of-male-sexual-function>
<http://www.merckmanuals.com/professional/gynecology-and-obstetrics/sexual-dysfunction-in-women/overview-of-female-sexual-function-and-dvsfunction>

EXAM METHOD

Oral exam takes place in every session scheduled by the CCL. The exam Commission is normally composed of one lecturer for each main subject area present in the Integrated Course. There are no practical exams.

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EXAM COMMISSION

Angelico Mario	Frontoni Simona	
Baiocchi Leonardo	Manca de Villahermosa Simone	
Fantini Massimo Claudio	Tozzo Carmela	
Lenci Ilaria	Di Stasi Savino Mauro	
Lauro Davide	Miano Roberto	
Jannini Emmanuele A.	Manzia Tommaso Maria	
Di Renzo Laura		



Tutor

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