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## PATOLOGIA SISTEMATICA E CLINICA - MALATTIE DEL SISTEMA ENDOCRINO - channel 2

7 CFU - 1° Semester

### Teaching Staff

**FRANCESCO FRASCA** - Module MALATTIE DEL SISTEMA ENDOCRINO - MED/13 - 5 CFU

**Email:** f.frasca@unict.it

**Office:** PO Garibaldi Nesima Via Palermo 636, Torre C Piano -1

**Phone:** 095 759 8702

**Office Hours:** 12:00-13:00

**LUCIA FRITTITA** - Module MALATTIE DEL SISTEMA ENDOCRINO

**Email:** lfrittita@unict.it

**Office:** Endocrinologia, Osp. Garibaldi, Via Palermo 636, Catania

**Phone:** 0967598750

**Office Hours:** lunedì e venerdì 13-14

**ANTONINO ZANGHI** - Module Endocrine surgery - MED/18 - 2 CFU

**Email:** amzanghi@unict.it

**Office:** policlinico, Edificio 1, settimo piano, via Santa Sofia 84

**Phone:** 0953782749

**Office Hours:** lunedì 8.30/ 9.30 previo appuntamento

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### LEARNING OBJECTIVES

#### ▪ MALATTIE DEL SISTEMA ENDOCRINO

Acquirement of the basal knowledge about anatomy, physiology, embryology of the endocrine and metabolic system. Study of biochemistry of the hormones and basal metabolism, genetics of endocrine diseases, male disorders, metabolic diseases, and pathogenesis of complications.

Acquirement of the basal knowledge for the epidemiologic evaluation and prevention, diagnosis and treatment of the endocrine diseases (including pediatric endocrinology, puberty, endocrine tumors and hormone-dependent tumors, endocrinology of aging, endocrinology and physiopathology of human reproduction), congenital and acquired male disorders (including erectile dysfunction and sexual disorders prevention and treatment of couple infertility and skills for assisted fertilization) and metabolic disorders (including inherited metabolic disorders, diabetes during infancy and pregnancy, prevention and treatment of diabetes complications, obesity, lipid metabolism disorders, bone metabolic diseases). Acquirement of the basal knowledge required to prevent, identify and treat the main endocrine and metabolic emergencies; acquirement of functional and instrumental semiotics of endocrine and metabolic diseases.

#### ▪ Endocrine surgery

Acquisition of the notions of nosological definition, epidemiology, etiopathogenesis, symptomatology, diagnostic procedures, differential diagnosis, complications and signs of surgical treatment of benign and malignant diseases of the thyroid gland, adrenal gland, parathyroid gland and endocrine pancreas

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## **DETAILED COURSE CONTENT**

### **▪ MALATTIE DEL SISTEMA ENDOCRINO**

General mechanisms of metabolic physiopathology

Hypothalamus and Pituitary Diseases

- Pituitary Adenomas
- Pituitary Failure
- Diabetes Insipidus

Thyroid Diseases

- Hypothyroidism
- Hyperthyroidism
- Thyroiditis
- Sporadic and Endemic Nontoxic Goiter
- Thyroid Nodule
- Thyroid Neoplasia
- Thyroid Surgery

Hormones and Disorders of Mineral Metabolism

- Hypoparathyroidism
- Hyperparathyroidism
- Parathyroid Surgery

Reproduction

- Endocrine Disorders of the Ovary
- Endocrine Disorders of the Testis
- Disorders of sex differentiation and puberty
- Disorders of the Reproductive System
- Sexual Dysfunction
- Surgical therapy (varicocele, criptorchidism, testicular tumors)

Adrenocortical Diseases

- Adrenal Insufficiency
- Glucocorticoid, mineralcorticoid excess
- Disorders of Adrenal Medulla
- Adrenal Surgery

Disorders of Endocrine Pancreas

- Type 1 Diabetes
- Type 2 Diabetes
- Complications of Diabetes Mellitus

#### Other Metabolic Diseases

- Obesity and leanness
- Lipid Metabolism Disorders

#### Other Endocrine Diseases

- Growth Disorders
- Endocrine Hypertension
- Hypoglycemia
- Endocrine and Metabolic Comas
- Autoimmune Polyendocrine Syndromes
- Multiple Endocrine Neoplasias
- Paraendocrine and neoplastic Syndromes

#### Hormone-dependent tumors

- **Endocrine surgery**  
frontal lessons

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## TEXTBOOK INFORMATION

- **MALATTIE DEL SISTEMA ENDOCRINO**

Uniendo. Lenzi A., Lombardi G., Martino E., Vigneri R. Minerva Medica. First edition. 2010. ISBN 13978-88-7711-693-2.

Endocrinologia Generale e Clinica. Gardner DG, Shoback D. PICCIN 2009. ISBN: 9788829918331.

Endocrinologia e malattie del metabolismo. Colao AM, Giugliano D., Riccardi R. Idelson-Gnocchi Editore. 2014. ISBN 9788879475778.

Guida allo studio dell'Andrologia. Lenzi A. Società Editrice Universo. ISBN 2012, 9788865150689.

Chirurgia generale. Bellantone, De Toma, Montorsi. Ed. Minerva Medica. 2008. ISBN 13978-88-7711-623-9.

Chirurgia. Renzo Dionigi. Ed Elsevier. 2011. Quinta Edizione. ISBN 978882142973.

- **Endocrine surgery**

"Chirurgia. Basi teoriche e chirurgia generale - Chirurgia specialistica vol.1-2" di Renzo Dionigi - 6 EDIZIONE (2017)

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