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

7 CFU - 1° Semester

## Teaching Staff

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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.

## **COURSE STRUCTURE**

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

Lessons, with power point support

*Should teaching be carried out in mixed mode or remotely, it may be necessary to introduce changes with respect to previous statements, in line with the programme planned and outlined in the syllabus.*

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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

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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.

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