



PEDIATRICS

MED/38 - 5 CFU - 2° Semester

Teaching Staff

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LEARNING OBJECTIVES

General paediatrics and *Preventive and social paediatrics* deal with the overall health (e.g., physical, mental and social health) and with the study of prevention of diseases during **childhood** (i.e., during the developmental age) [with *developmental age* we mean the period between the prenatal age (i.e., the three phases preceding birth) and the end of the natural process of physical growth and cognitive maturation (which, according to the European standards ends up at age 18 years and by the USA standards ends up at about age 20-22 years)].

Specifically, this teaching deals with:

- (a) *Physiology and development* of the neonate (including topics dealing with neonatal pathology), the child and the adolescent;
- (b) *Prevention paediatrics*, i.e., all medical acts and activities aimed to reduce mortality secondary to given diseases and morbidity (i.e., the frequency of given diseases) in children;
- (c) *Specialty paediatrics*, i.e. all acute and chronic diseases affecting various organs during the developmental age: cardiology, respiratory medicine, gastroenterology, neurology, haematology, oncology, endocrinology, rheumatology, infectious diseases, and dermatology;
- (d) *Social paediatrics*, i.e., health problems catering from the overall childhood community (prevention and community medicine)

The course aims to provide the students with the basic knowledge of paediatrics and the fundamentals of paediatrics, which is of utmost importance for those dealing with childhood and with the children's (and adolescents') world and more in general with their related health problems.

The course aims to provide the bases and fundamentals of: (a) anatomy and physiology during development; (b) prevention and social medicine during development; (c) health education and understanding of diseases during childhood and adolescence and of the main acute and chronic conditions physically or mentally disabling children or interfering with their learning processes.

DETAILED COURSE CONTENT

So as to provide the students with the basic and fundamental principles of paediatrics and paediatric diseases the course will deal with basic principles of anatomy and physiology in the developmental age, moving then to the main conditions affecting organs illustrating the causes and the basic mechanisms of diseases, the social impact of diseases during childhood and the main clinical manifestations along with the most important and recent therapeutic strategies.

Thus, the topics will deal with the most frequent conditions affecting children during development. These topics will represent the most frequent medical conditions faced by psychologists. In addition the course will include basic notions of nutrition, growth and development modalities along with related neurological, behaviour and cognitive problems.

PROGRAM:

- A. **GENERAL TOPICS:** Paediatrics (general concepts); History of paediatrics and infancy across the centuries; vaccination procedures; nutrition and feeding procedures; personal hygiene; principles of genetics and heredity; rare disease.
- B. **NEONATAL AND CHILDHOOD PHYSIOLOGY.**

SPECIALTY PAEDIATRICS: cardiology, respiratory medicine, gastroenterology, neurology, haematology, oncology, endocrinology, rheumatology, infectious diseases, and dermatology.

TEXTBOOK INFORMATION

Bona G. - Miniero R. *Pediatria Pratica*. IX edizione, Torino: Edizioni Minerva Pediatrica, **2013**

De Martino M. *Pediatria*. Napoli; EdiSES, **2012**

Marcadante KJ, Kliegman RM, Jenson HB, Behrman RE. *Nelson: Manuale di Pediatria*, 6a edizione (edizione italiana a cura di Bernardi L, Biondi A, Bravaccio C, Corsello G, Giovannini M, Perilongo G, Plebani A, Riccardi R, Riva E). Milano: Elsevier, **2012**

IN PREPARATION: Ruggieri M, et al. *Pediatria Generale e Specialistica* [Per i corsi di Laurea in Medicina e Chirurgia, in Scienze dell'Educazione e della Formazione, Scienze Pedagogiche, Psicologia ed in Professioni Sanitarie]. Roma: "Il Pensiero Scientifico Editore", **2017**.
