UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Pediatrics

2627-5-H4101D334

Aims

The Pediatrics Course, takes place in the 5th and 6th year including a PROFESSIONALIZING INTERNSHIP activity in the second semester of the 5th year and is carried out in:

- attendance at a family pediatrician outpatient clinic
- interactive classroom meetings

It is proposed to be acquired by the student
• the skills necessary for the non-specialist doctor to deal with the most common pediatric problems concerning the healthy child, the growth and the most common health problems, as well as the basic knowledge in order to recognize the situations that require immediate medical intervention or referral to the specialist
• a learning methodology based on the creation by students according to the basis of Problem Based Learning (PBL) on topics related to healthy children

These topics (see the detailed program below) **will be INCLUDED IN THE ASSESSMENT TEST of the entire course, on the year 6th.**

Contents

According to evidence-based criteria as well as through consultation of the most recent literature and to aspects of multiculturalism and taking into account differences according to age and gender:

- General overview and management of the healthy child
- Method of managing the medical record and the doctor/parent/patient relationship.
- Complete pediatric physical examination
- Setting up nutrition, preventive aspects (screening and vaccinations); classification and evaluation of growth and auxological and laboratory parameters in pediatric age

- Evidence of situations and conditions requiring prompt medical attention and/or intervention or referral to a specialistic centre (red flags)
- Diagnostic and therapeutic approach to the most common childhood pathologies

Detailed program

1.

- **INTERACTIVE CLASSROOM TEACHING**

NEWBORN (0-28 days): notes on the physiological newborn , most frequent practical indications upon discharge from the nursery.

DEVELOPMENTAL ASPECTS AND RATIONALE OF NUTRITION and DIET: • -breastfeeding and artificial feeding: rationale, indications, contraindications • • weaning: rationale, indications, • • -nutrition in the 1st year of life, notes for pre- and school age, adolescence • and in physical activity: rationale, indications. • Consideration and evaluation of different habits or alternative dietary regimes.

SUPPLEMENTS recommended in the 1st year of life according to the evidence. GROWTH: development (general,somatic and pubertal, physiological). Rationale, application and interpretation of percentiles and growth parameters in pediatric age, according to family, genetic and ethnic parameters too).

PEDIATRIC, CLINICAL AND INSTRUMENTAL EXAMINATION: (rationale and measurement of vital indicators, otoscopic examination, temperature measurement) peculiarities that characterize it compared to adults and aspects of importance in pediatric age.

NEUROLOGICAL EXAMINATION , REFLEXES AND STAGES OF PSYCHOMOTOR DEVELOPMENT, (including language, environmental interaction) in particular in the first year, with hints in subsequent ages up to adolescence.

ANTICIPATORY GUIDENCES: rationale and applications.

NEONATAL SCREENING IN THE FIRST YEAR OF LIFE: rationale and applications according to the evidence

VACCINATIONS: rational, and applications according to the evidence

IDENTIFICATION OF THE MAIN ORTHOPEDIC PROBLEMS in pediatric age

TEETHING, OCCLUSIONS: normality and the interception of the main problems; preventive prescriptions or referral to a specialist.

Main indications for starting SPORTS ACTIVITY IN PEDIATRIC AGE.

INTERPRETATION in pediatric age of BLOOD COUNT, LIVER FUNCTION, URINE TESTS AND URINE CULTURE in order to recognise, directly manage or send to the specialist.

MORE PEDIATRIC PRESCRIPTIONS important and FREQUENT: how to set and prescribe medications, food/dietary or other indications -management of the fever,

MAIN PEDIATRIC RED FLAGS in healthy child.

2.

- **OUTPATIENT CLINIC ATTENDANCE**

NEXT TO to the family pediatrician as observer

in the daily work according to principles based on scientific evidence and on priorities,

ACTIVE PARTICIPATION IN ALL PHASES OF THE VISIT (anamnesis, examination)

- OBSERVATION of the ongoing relationship between the child and his family:
  listening, promotion of the therapeutic alliance and making parents responsible.
- KNOWLEDGE OF THE INDICATIONS relating to prevention, diagnosis, behavioral advice, treatment prescriptions
- ACQUISITION of the importance /ability to inform and make aware of his/her illness and treatment history in the pediatric ages
- KNOWLEDGE of the methods regarding relationship and contacts with the existing forms of care on the region.

Prerequisites

knowlege related to physiology and basic sciences

Teaching form

INTERNSHIP WITH INTERACTIVE TEACHING (2 CFU)

consiting of:
interactive classroom teaching

- INTRODUCTION BY THE TEACHER OF THE COURSE OBJECTIVES, THE METHODOLOGY ADOPTED (PBL), and THE RATIONALE
- GROUP DISCUSSION of a clinical case and on topics related to healthy children and their growth.
- INSTRUCTIONS on how to carry out the activity under the supervision of the teacher provided for in the Course structure as follows

interactive teaching without face-to-face contact:
Students, divided into groups, will develop in-depth analyses of the program topics, divided into LEARNING OBJECTIVES, also employing imaging and literature/information sources, with guidance also provided via the E-LEARNING PLATFORM.
The work is shared with the teacher during the course, who is always available for consultation during this phase, whether on the platform, by email, or in person.

The contents developed during the independent activity will subsequently be presented in class, where students work alongside the teacher, according to a pre-established agenda,
and will be considered acquired and **included in the assessment of the sixth-year final exam**

- Some meetings will also include the participation of general pediatric practitioners involved in the professional training for the part reserved for

  INTERNSHIP IN A FAMILY PEDIATRICS OUTPATIENT CLINIC (1 CFU)

This consists of continuous daily attendance at a family pediatrician's clinic on a 1:1 basis,
with the coordinator of the family pediatricians and a student representative coordinating the division, schedule and locations.

Textbook and teaching resource

Nelson Essentials of Pediatrics – 10th edition (english version) Autore/i: Marcdante - Kliegman - Behrman – Nelson
Editore: Elsevier – Saunders
Consultazione di testi-siti web /letture consigliate durante l’attività di tirocinio

Semester

second semester of the fifth year:

- for face-to-face meetings, according to the teaching calendar
- for outpatient clinic attendance: in periods free from other activities, agreed with the reference family pediatrician

Assessment method

- IN THE CLASSROOM : slide show of the papers carried out by the members of each working group
- OUTPATIENT ATTENDANCE: certified by the responsible tutor and the coordinator of the pediatric course
- **The specific issues concerning the healthy child**
  (see the detailed program above) **are included in the assessment test** of the whole course on the year 6th and concern both topics covered in the indtercìactive lessons and in the textbook adopted.

Office hours

By appointment
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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY