UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Clerkship 10

2526-6-H4102D061

Aims

After the Professional Internship focused on the healthy child and his growth, which takes place in the 5th year according to the program contained in the relative Syllabus and which will be a subject included in the profit exam, the Pediatrics Course continues in the 6th year with the Clerkship, during which the aim is to make the student acquire the contents and skills necessary for the non-specialist doctor to build the skills necessary to perform a correct clinical evaluation of the pediatric patient, taking into account the peculiarities of the physiology and physiopathology of childhood and adolescence.

Contents

Global overview of the healthy child and in the presence of the major specific pathologies of childhood. Methods of managing the visit, such as:
carrying out a complete pediatric objective examination, detecting the most important normal and pathological growth parameters (auxological and neuropsychomotor development) and identifying the conditions that require prompt medical attention and/or intervention.

Detailed program

The Clerkship program includes the acquisition of the following competencies:

Doctor-Patient Relationship

• Implement good practices in the doctor-patient relationship (interview, relationship, information, clarity, consent acquisition)

• Know how to inform patients and family members; discuss risks/benefits of treatment
• Establish a correct approach in the relationship with the patient, modulated and diversified in relation to age, which varies from the neonatal period to adolescence

Medical History Collection

• Establish a good relationship with parents/caregivers, necessary both for collecting medical history and cooperation during examination, and for diagnostic-therapeutic communication
• Collect family history, physiological history, past and recent medical history
• Collect past and recent medical history focused on specialized pathology
• Particularly thorough collection of family and pregnancy history; past and recent medical history focused on the problem that brings the child to observation

Vital Parameters Measurement

• Measure central and peripheral heart rate
• Heart rate measurement and its interpretation in relation to the patient's age and measurement condition
• Measure respiratory rate and detect breathing characteristics
• Use of respiratory distress assessment scales specific for newborns/infants
• Measure blood pressure in different situations
• Blood pressure measurement in different conditions, at all 4 limbs; identification of the most suitable instrumentation; interpretation of data in relation to the patient's age and clinical conditions
• Detect central and peripheral pulses and describe their characteristics
• Interpret a temperature curve
• Body temperature measurement: identification of the most suitable instrumentation in relation to the child's age and interpretation of the temperature curve
• Measurement of anthropometric parameters (weight, length/height, head circumference; BMI; abdominal circumference), identification of the most suitable instrumentation in relation to the child's age
• Construction of a growth curve - use of appropriate curves in relation to age
• Pain assessment in relation to age – use of correct assessment scales

Procedures

• Place venous cannula
• Perform intravenous injections
• Perform intramuscular injections
• Perform intradermal/subcutaneous injections
• Apply oxygen therapy
• Know and apply the most appropriate instrumentation in relation to the child's age and clinical condition (nasal cannulas, mask, high-flow...)
• Perform oximetry
• O2 saturation measurement – identification of the most appropriate instrumentation in relation to the patient's age
• Perform an ECG
• Interpret the main electrocardiographic patterns

Administrative Aspects

• Complete a medical record, write a discharge summary, a clinical report, and DRG
• Request informed consent
• Know procedures and forms for obtaining consent for minors
• Request a protected discharge path
• Complete a medical prescription or an analysis request on NHS forms

Infection Prevention

• Apply patient protection measures against disease contagion
• Know how to indicate prevention actions and health education

Physical Examination

• Assessment of general clinical conditions, state of consciousness, child's behavior
• Assessment of skin and skin appendages
• Assessment of head and neck, dentition
• Assessment of ear, mouth, nose, throat
• Assessment of eye
• Assessment of chest and lungs
• Assessment of heart
• Assessment of abdomen, hypochondriac organs
• Assessment of genitals – assessment of pubertal stage (Tanner scales)
• Assessment of musculoskeletal system
• Neurological physical examination, assessment of reflexes modulated according to the child's age
• Psychomotor development – assessment of the acquisition of the main developmental milestones in various areas (fine and gross motor skills, cognitive development, language, emotional and social development)

Nutritional Aspects

• Reading and interpretation of growth curves, growth velocity
• Calculation of intake/output balance
• Assessment of clinical signs of malabsorption
• Assessment of clinical signs of dehydration
• Assessment of feeding (breastfeeding vs. complementary feeding)
• Assessment of bowel movements and diuresis

Specialized Examinations and Consultations

• Request for specialized and laboratory tests for diagnostic framing
• Interpretation of radiological reports relating to the main pathologies of pediatric age
• Interpretation of laboratory reports relating to the main pathologies of pediatric age
• Formulation of diagnostic hypotheses and therapeutic plan

Therapy

• Use of antibiotics: know and apply the guidelines
• Correct therapeutic prescriptions in relation to the child's weight/body surface; correct use of Farmasafe software

Clinical Reasoning

• Ability to frame the reason for hospitalization in the context of any chronic conditions, other critical issues, and patient vulnerabilities
• Know and be able to apply clinical reasoning: the ability to identify priority or urgent problems and secondary ones, and the ability to propose diagnostic hypotheses and identify diagnostic tests with greater sensitivity and specificity to confirm or rule out hypotheses

Prerequisites

Knowledge related to physiology and basic science courses
Participation in the 5th year internship activities

Teaching form

- in-person teaching starting from clinical cases proposed by the teacher, divided by pathologies/nosological areas
- interactive teaching in person with exercises at the bedside
- teaching under the supervision of the teacher, with proactive involvement of students

Textbook and teaching resource

Nelson Essentials of Pediatrics – 9th edition (English version) Autore/i: Marcdante - Kliegman - Behrman – Nelson
Editore: Elsevier – Saunders
A handout prepared specifically for the clerkship, which is given to each student

Semester

first semester

Assessment method

Office hours

by appointment
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Sustainable Development Goals

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