

Clinical Practice in Child and Maternal Health II

Code: 103650
ECTS Credits: 3

Degree	Type	Year	Semester
2502442 Medicine	OT	5	0
2502442 Medicine	OT	6	0

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Carlos Rodrigo Gonzalo de Liria
Miguel Angel Luna Tomás

Prerequisites

It is advisable that the student has attained the basic competences in Physiology, Cellular and Molecular Biology, Biochemistry and Anatomy.

Sufficient knowledge on the basis of health and illnesses is appropriate, as well as an adequate level of knowledge in interpersonal communication.

It is recommended to be enrolled or to have passed the subjects of Pediatrics and Obstetrics and Gynecology.

The student will acquire an attitude of professional ethics in all its actions

Objectives and Contextualisation

It is an optional subject that can be taken from the fourth year.

The general objective is that the student becomes familiar with the professional practice in the real context.

The student will join a clinical service or healthcare laboratory by performing the practices in a supervised way.

Competences

- Medicine
- Be able to work in an international context.

- Communicate clearly, orally and in writing, with other professionals and the media.
- Demonstrate a sufficient command of English, both oral and written, for effective scientific and professional communication.
- Demonstrate an understanding of the fundamentals of action, indications, efficacy and benefit-risk ratio of therapeutic interventions based on the available scientific evidence.
- Demonstrate understanding of basic statistical methodologies used in biomedical and clinical studies and use the analytic tools of modern computational technology.
- Demonstrate understanding of the causal agents and the risk factors that determine states of health and the progression of illnesses.
- Demonstrate understanding of the mechanisms of alterations to the structure and function of the systems of the organism in illness.
- Demonstrate understanding of the organisation and functions of the genome, the mechanisms of transmission and expression of genetic information and the molecular and cellular bases of genetic analysis.
- Demonstrate understanding of the structure and function of the human organism in illness, at different stages in life and in both sexes.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- Establish a diagnostic approach and a well thought-out strategy for action, taking account of the results of the anamnesis and the physical examination, and the results of the appropriate complementary tests carried out subsequently.
- Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
- Indicate the basic diagnosis techniques and procedures and analyse and interpret the results so as to better pinpoint the nature of the problems.
- Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
- Recognize one's role in multi-professional teams, assuming leadership where appropriate, both for healthcare provision and for promoting health.
- Use information and communication technologies in professional practice.

Learning Outcomes

1. Analyse from a genetic perspective the probandus-family relationship that facilitates the offer of genetic counselling.
2. Assess the efficiency of the main therapeutic interventions.
3. Assess the need, indications, contraindications, chronology, risk, benefits and costs of each examination.
4. Assess the relationship between efficacy and risk in the main therapeutic interventions.
5. Be able to work in an international context.
6. Communicate clearly, orally and in writing, with other professionals and the media.
7. Compare one's own opinions with those of colleagues and other healthcare professionals as a basis for teamwork.
8. Critically assess the results of complementary examinations, taking their limitations into account.
9. Demonstrate a sufficient command of English, both oral and written, for effective scientific and professional communication.
10. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
11. Describe normal and pathological pregnancy and childbirth. Postpartum.
12. Describe the diagnosis, prognosis, prevention and treatment for the most common genetic pathologies in the human population.
13. Describe the physical, chemical, environmental, psychological, social and occupational and carcinogenic factors, and the factors associated with food habits and drug use, that determine the development of the disease.
14. Design methodologies for the experimental study of genetic diseases.
15. Differentiate between situations that require hospitalisation and those that require intensive care.
16. Establish a method for complementary examinations, in accordance with the standard process and the diagnostic expectations.
17. Establish a therapeutic action plan considering the needs of patients and their family and social environment, and involving all members of the healthcare team.

18. Explain the mechanisms by which illness affects the different systems of the human body at different stages in life and in both sexes.
19. Formulate hypotheses and compile and critically assess information for problem-solving, using the scientific method.
20. Further investigate the techniques and methods that help in genetic diagnosis.
21. Identify the affectation of medical and surgical diseases of the genital system.
22. Identify the genetic bases for the main diseases with a genetic basis or component.
23. Indicate and interpret the basic techniques and procedures for laboratory diagnosis, diagnostic imaging and others.
24. Indicate suitable therapeutic interventions for the main maternal and infant health problems.
25. Know, critically assess and use clinical and biomedical information sources and technologies.
26. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
27. Make correct use of genetic terminology in text and reference books.
28. Obtain, in an appropriate way, clinical samples needed for laboratory tests.
29. Obtain, organise, interpret and communicate clinical, scientific and healthcare information.
30. Order signs and symptoms to perform a differential syndromic diagnosis.
31. Relate genetic dysfunction to the pathological phenotype.
32. Understand and interpret statistical data in medical literature.
33. Use information and communication technologies in professional practice.

Content

The student can choose which service or area of care to incorporate: obstetrics, gynecology and paediatrics.

During the practice the student will observe:

- General aspects of the clinical relationship and the concepts of health and illness.
- Healthcare methodology.
- Etiology, pathophysiology, semiology and clinical propedéutica, major syndromes and manifestations of diseases,
- Diagnostic and therapeutic procedures for the most common diseases
- Functional exploration of the different devices and systems.
- Obstetric, gynecological and pediatric syndromes.

The clinical experience will be completed with the attendance of clinical sessions or others that the service has programmed .

Methodology

This Guide describes the framework, contents, methodology and general norms of the subject, in accordance with the current curriculum. The final organization of the subject with regard to the number and size of groups, distribution in the calendar and dates of examinations, specific criteria of evaluation and review of exams, will be specified in each one of the Hospital Teaching Units (UUDH), who will explain it through their web pages and the first day of class of each subject, through the teachers responsible for the subject at the UUDH.

For the present year, the professors appointed by the Departments as responsible for the subject at the Faculty level and the UUDH are:

Department (s) in charge: Department of Pediatrics, Obstetrics and Gynecology and Preventive Medicine

Head of Faculty: Soledad Gallego Melcón

Responsible UDHSP: Dra. Isabel Badell
ibadell@santpau.cat

Responsible UDHVH: Soledad Gallego Melcón
sgallego@vhebron.net

Responsible for UDGtIP:
Carlos Rodrigo Gonzalo de Liria

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Miguel Ángel Luna Tomás

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Responsible UDHPT: Ramon Cos Plans

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General teaching methodology:

Teaching type: Assistance practitioner without guidelines

The student joins the care service activities for one week (5 days), 6 hours a day, to observe and / or carry out health care, training or research tasks in a supervised way. During the stay you will register the activity carried out to complete the summary summary package of your stay. This summary, together with the tutor's opinion of the scheduled stay, will be the basis of the assessment.

Operation

The interested student must look for a tutor (Pediatrics or Obstetrics and Gynecology) and a clinical service or hospital department, where to carry out the activity, which must have a minimum duration of 30 hours, be out of school hours and be different from the practices carried out in the subjects of the syllabus.

The student will give the tutor a proposal of activity (use the specific sheet) where the contents of the same and their approval will be recorded.

The completed application must be submitted to the academic management and information point so that the person in charge of the subject can record the activity. Once authorized, the Academic Management will cite the student to collect the authorization and the summary sheet of the activity and qualification.

At the end of the period, the student will obtain the qualification of the activity with the signature of the responsible professor and seal of the service.

The student must bring the document (proposal, summary) to the Academic Management and point of information to request the recognition of the credits according to the usual procedure.

In the current exceptional circumstances, at the discretion of the teachers and also depending on the resources available and the public health situation, some of the theoretical classes, practicals and seminars organized by the Teaching Units may be taught either in person or virtually.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Activities

Title	Hours	ECTS	Learning Outcomes
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Type: Directed

ASSISTENCIAL CLINICAL PRACTICES (PCAh)	15	0.6	6, 7, 10, 16, 19, 18, 24, 30, 33, 8, 3, 4
Type: Supervised			
PRACTICUM ASSISTANCE WITHOUT GUIDELINES (PEXT)	15	0.6	6, 7, 10, 16, 19, 18, 24, 30, 33, 8, 3, 4
Type: Autonomous			
ELABORATION OF WORK / PERSONAL STUDY / READING OF ARTICLES / REPORTS OF INTEREST	43	1.72	6, 7, 10, 16, 19, 18, 24, 30, 33, 8, 3, 4

Assessment

During the scheduled stay, the student will record the most significant clinical experiences and summarize the content of the sessions in which he has participated. This documentation will be delivered at the end of the stay to the tutor and will constitute the basis of its evaluation. The record of activities includes the summary of the learning, of all the tasks that the student has done and of the sessions in which you have participated.

The tutor responsible for the student will monitor the fulfillment of the programmed objectives.

To pass the subject the student must have attended at least 80% of the programmed activities and passed the evaluation

Students who do not take the theoretical and practical assessment tests will be considered as not evaluated, exhausting the rights to the registration of the subject

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Delivery of written reports	50%	1	0.04	1, 20, 6, 7, 25, 9, 10, 12, 13, 11, 15, 14, 32, 17, 16, 19, 18, 21, 22, 23, 24, 26, 28, 29, 30, 31, 5, 27, 33, 8, 2, 3, 4
Objective clinical evaluation	50%	1	0.04	1, 20, 6, 7, 25, 9, 10, 12, 13, 11, 15, 14, 32, 17, 16, 19, 18, 21, 22, 23, 24, 26, 28, 29, 30, 31, 5, 27, 33, 8, 2, 3, 4

Bibliography

Consult the specific bibliography:
teaching guides of diagnostic and therapeutic procedures, social medicine, communication skills and initiation to research.

Software

The course consists on clinical practice and does not have a specific program

No specific software needed