

Clinical Dermatology

Code: 102938
ECTS Credits: 4

Degree	Type	Year	Semester
2502442 Medicine	OB	4	0
2502442 Medicine	OB	5	0

Contact

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Use of Languages

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

Teachers

Miguel Ribera Pibernat
Maria Isabel Bielsa Marsol
María Josefa Fuente González
Luis Puig Sanz
Maria Pilar Garcia Muret
Miguel Casals Andreu
Mireia Esther Yebenes Marsal
Clara Fernandez Sartorio
Patricia Garbayo Salmons
Ingrid Lopez Lerma
Adrià Plana Pla
Jesus Luelmo Aguilar
Cristina Lopez Lluell
Aida Lara Moya
Monica Munera Campos
Núria Riera Martí
Maria Eugenia Hernández Ruiz
Ane Jaka Moreno
Nina Anika Richarz
Marta Gamissans Cañada
Mireia Sabat Santandreu
Julio Bassas Vila

Anna López Ferrer
Marta Elena Aparicio Espanyol

Domingo Bodet Castillo

Jorge Mollet Sánchez

Aram Boada Garcia

Patricia Bassas Freixas

Carla Ferrandiz Pulido

Natalia Fernández Chico

Vicente Exposito Serrano

Manel Carrascosa Carrillo

Prerequisites

It is recommended to have achieved the competences of the following subjects: Biochemistry and Molecular Biology, Cell Biology, Human Anatomy (I and II), Histology, Physiology, Human Genetics, General Pathology, Fundamentals of Surgery, Microbiology, Radiology and Physical Medicine, Pathology, Pharmacology, Immunology and Epidemiology.

The student will accept the commitment of preserving the confidentiality and the professional secrecy of the data to which he may have access for learning reasons in the assistance services. The student must also maintain an attitude of professional ethics in all his actions.

Objectives and Contextualisation

The subject of Dermatology includes the diagnosis, treatment and prevention of diseases of the skin, subcutis, mucous membranes and adnexal appendices, as well as the skin manifestations of systemic diseases and systemic manifestations of skin diseases. It also includes the promotion of good skin health.

Competences

Medicine

- Accept one's role in actions to prevent or protect against diseases, injuries or accidents and to maintain and promote health, on both personal and community-wide levels.
- Demonstrate an understanding of the fundamentals of action, indications, efficacy and benefit-risk ratio of therapeutic interventions based on the available scientific evidence.
- 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.
- 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.
- Obtain and prepare a patient record that contains all important information and is structured and patient-centred, taking into account all age and gender groups and cultural, social and ethnic factors.
- Recognise and take action in life-threatening situations and others that require an immediate response.
- Use information and communication technologies in professional practice.

Learning Outcomes

1. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
2. Develop a therapeutic strategy for the most prevalent skin diseases in the general population.

3. Enumerate the necessary complementary explorations that can lead to accurate diagnosis in a case of dermatosis, including laboratory studies and serological, immunological, microbiological and dermatopathological studies.
4. Identify key risk factors for the development of the most common skin diseases, with special emphasis on those that refer to infections and malignant tumours of the skin and mucosa.
5. Identify processes that can be treated by primary care physicians and those that should be referred to a dermatologist, establishing the degree of priority for the latter case.
6. Identify skin diseases that can be the expression of a systemic illness.
7. Identify skin injuries from possible life-threatening processes.
8. Identify the major skin injuries and describe them appropriately.
9. Identify the most important cutaneous signs that can accompany a potentially serious systemic disease.
10. Identify the typical clinical patterns of the most prevalent skin diseases in the general population.
11. Maintain and sharpen one's professional competence, in particular by independently learning new material and techniques and by focusing on quality.
12. Propose a basic diagnostic strategy to reach a definitive diagnosis.
13. Put forward a clinical differential diagnosis based on skin injuries.
14. Use information and communication technologies in professional practice.

Content

Theoretical classes

The subject is structured in 10 large blocks that group the different aspects of Dermatology. There will be taught 25 master classes with computer and projector and/or online access. Because of their frequency, infections, eczema and skin tumors are especially relevant for the training of general practitioners. The objective is to be able to recognize and describe skin lesions, propose a differential diagnosis, propose complementary explorations to be performed and design a therapeutic plan. They should also be able to identify those dermatoses that due to their diagnostic or therapeutic complexity should be referred to the specialist, specially those that require priority attention.

1. General (2 hours)
 - 1.1. Anatomy and physiology of the skin (1 hour)
 - 1.2. Basis of dermatological diagnosis and therapy (1 hour)
2. Infections (6 hours)
 - 2.1. Bacterial infections (1 hour)
 - 2.2. Mycobacterial infections (1 hour)
 - 2.3. Viral infections (1 hour)
 - 2.4. Mucocutaneous fungal infections (1 hour)
 - 2.5. Zooparasitic infestations (1 hour)
 - 2.6. Sexually transmitted diseases (1 hour)
3. Reactive dermatoses and eczema (5 hours)
 - 3.1. Urticaria, angioedema and pruritus (1 hour)
 - 3.2. Contact dermatitis (1 hour)
 - 3.3. Atopic dermatitis (1 hour)
 - 3.4. Dermatitis of physicochemical origin (1 hour)

3.5. Reactive dermatoses, cutaneous drug reactions and neutrophilic dermatosis (1 hour)

4. Erythematous-squamous dermatoses (1 hour)

4.1. Psoriasis, seborrheic dermatitis, pityriasis rosea of Gibert and lichen planus (1 hour)

5. Diseases of the cutaneous adnexa (1 hour)

6. Autoimmune bullous diseases (1 hour)

7. Disorders of pigmentation (1 hour)

8. Genodermatosis (1 hour)

9. Cutaneous manifestations of systemic diseases (4 hours)

9.1. Vasculitis and panniculitis (1 hour)

9.2. Cutaneous manifestations of connective tissue diseases (1 hour)

9.3. Cutaneous manifestations of metabolic and deficiency diseases (1 hour)

9.4. Cutaneous manifestations of internal neoplasms (1 hour)

10. Tumors (3 hours)

10.1. Malignant epithelial tumors (1 hour)

10.2. Melanocytic tumors (1 hour)

10.3. Lymphomas, histiocytosis and mastocytosis (1 hour)

Specialized seminars (8 hours, groups of 20-25 students)

1. Description of elementary lesions and dermatological therapy (1 hour)
2. Clinical cases of infections (1 hour)
3. Clinical cases of pruritus (1 hour)
4. Clinical cases of pediatric dermatology (1 hour)
5. Clinical cases of dermatological emergencies (1 hour)
6. Clinical cases of cutaneous manifestations of systemic diseases (1 hour)
7. Clinical cases of benign tumors (1 hour)
8. Clinical cases of malignant tumors (1 hour)

Clinical case seminars (2 hours, groups of 4-10 students)

1. Selected practical clinical cases - differential diagnosis (1 hour)
2. Selected clinical case studies - treatment (1 hour)

Methodology

This guide describes the framework, contents, methodology and general rules of the subject, in accordance with the current curriculum. The final organization of the subject as regards the number and size of the groups, distribution in the calendar and dates of exams, specific evaluation criteria and review of exams, will be specified in each of the Hospital Teaching Units (HTU), who will explain it through their web pages and the first day of class of each subject, through the responsible teacher in each of the HTU.

For this course the professors appointed by the Department as responsible for the subject at the Faculty and the UDH level are:

Responsible Department: Medicine

Responsible for the Faculty: Vicente García-Patos (vgarciapatos@gmail.com, vgarcia@vhebron.net)

Responsible for UDHSCSP: Lluís PUig (puig@santpau.cat)

Responsible UDHUVH: Vicente García-Patos (vgarcia@vhebron.net)

Responsible UDHUGTIP: Isabel Bielsa (ibielsa.germanstrias@gencat.cat)

Responsible UDHUPT: Miquel Ribera (mribera@tauli.cat)

GENERAL EDUCATIONAL METHODS

Credits: 4 ECTS = 100 hours

AUTONOMOUS WORK (50% of the total = 50 hours): Comprehensive reading of texts and articles, study and realization of schemes, summary and conceptual assimilation of the contents. It also includes preparation of presentations and delivery.

EVALUATION (5% of the total = 5 hours): one or two partial exams and a final exam, evaluation of the practices

DIRECTED TEACHING TYPOLOGIES (45% of the total = 45 hours): Includes 25 theoretical classes (lectures, TE typology), 8 specialized seminars of 1 hour each (SEM typology, with a standard size of 20 students), seminars of clinical cases (SCC typology), which includes two seminars of 1 hour each, with groups of 5 to 12 students, preferably at the end of the practices, in which students will discuss the differential diagnosis and treatment of the most common dermatoses, under the supervision of a tutor, and 10 hours (2.5 hours x 4 days) of clinical care practices (typology PCAh), in which students will go to the hospitalization rooms, outpatient clinics, operating rooms and examination cabinets.

SUPERVISED TEACHING TYPOLOGIES:

VIRTUAL CLASSES (VIRT TYPOLOGY)

Teaching given without classroom presence under the permanent and personalized supervision of the student and using intensively the information and communication technologies (ICT). The objective of virtual teaching is to facilitate access to learning resources from anywhere and at any time. The self-learning of the theoretical contents by the students will be encouraged, putting at their disposal the subject of at least 10% of the theoretical classes (3 of the 25) in digital format (pdf, audio-pptx, mp4), preferably in the virtual classroom of Campus UAB. If the epidemiological situation allows, these face-to-face classes will focus on the presentation and interactive discussion of clinical cases on the topic that students must have previously studied with the online material.

TUTORIES

The tutorials will not count as face-to-face hours, but can be scheduled and done individually or in groups, to the teachers' office, in teaching spaces or using the Tics, and the student must be informed of the hours of attention of the teaching staff.

WORK SUBMISSION

The presentation of papers can be scheduled as directed (in the form of SCC, SESP, classroom practices, etc.) or supervised (without a joint student-teacher presence). In any case, it is necessary to define the teaching typology to be used, the measure of the group involved in each session and the training to be used.

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
Type: Directed			
ASSISTENCIAL CLINICAL PRACTICES (PCAh)	10	0.4	2, 10, 9, 6, 7, 8, 13, 12, 3
SEMINARS OF CLINICAL CASES (SCC)	2	0.08	2, 10, 4, 5, 9, 6, 7, 8, 13, 12, 3
SPECIALIZED SEMINARS (SEM)	8	0.32	2, 10, 4, 5, 9, 6, 7, 8, 13, 12, 3
THEORY (TE)	25	1	2, 10, 4, 5, 9, 6, 7, 8, 13, 12, 3
Type: Autonomous			
WORK LABOR / PERSONAL STUDY / READING OF ARTICLES / INTEREST REPORTS	50	2	1, 11, 14

Assessment

EVALUATION

- Continuous 20%: assistance to classes and problem cases in classes - oral or written -, with multiple-choice or short questions (10%). Continuous assessment with a system of test questions (5 questions) in each class and seminar, which will be accessed by students electronically (eg *moodle* classroom from their smartphones) or by blocks of thematic units of the program (2-4 evaluations). . Both attendance (10% of the final grade) and the correct answers to the total number of test questions answered throughout the course (another 10% of the final grade) will be taken into account.

It will be evaluated in the following way:

- 10 points (out of a total of 100 of the subject) if the attendance is $\geq 90\%$
- 8 points if assistance $\geq 80\%$ and $< 90\%$
- 7 points if assistance $\geq 70\%$ and $< 80\%$
- 6 points if assistance $\geq 60\%$ and $< 70\%$
- 0 points if assistance $< 60\%$

- Partial and final evaluation (80%) - it is essential to pass the partial and final exams with a 5 or more so that the continuous evaluation adds up to the weighted 20%.

- Test with 45 questions, with 5 multiple-choice answers each one, which deduct 0.25 each if they are not answered well (35p)
- 10 short-answer questions (10x2 points per question = 20p)
- 20 clinical cases with photos (to answer with or without options, 20p)
- Practices (exposure of clinical cases, 5p)

The evaluation (partial / final / recovery) will be done primarily in a *moodle* or similar environment, with the presence of students in the classrooms. If the pandemic circumstances prevent it, the appropriate measures and formats will be applied (question-to-question pagination, randomization of questions and answers, impossibility to go back in the test, time adjusted to the number of questions, webcams ...) to ensure that the note is representative of the knowledge truly consolidated by the student.

A student who does not attend a minimum of 50% of the teaching activity and / or does not attend the partial or final examinations will be considered "NOT EVALUABLE".

The subject includes a recovery system for students who have not exceeded the content of the same, with a format to be determined (oral examination, multiple-choice test, short open questions...)

Evaluation activities

- Assistance and active participation in class and seminar sessions
- Written evaluation through objective tests: multiple-choice items / restricted-questions essay tests
- Seminars and/or problems and/or clinical cases: written evaluations through objective tests: short open questions / evaluation through practical cases and problem solving

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Assistance and active participation in classes and seminars	20%	0	0	2, 10, 4, 5, 9, 6, 7, 8, 13, 12, 3
Seminars and/or problems and/or clinical cases: written evaluations through objective tests: open questions / evaluation through practical cases and problem solving	25%	2.5	0.1	1, 2, 10, 5, 9, 6, 7, 8, 11, 13, 12, 3, 14
Written evaluations by means of objective tests: multiple choice items / restricted open questions	55%	2.5	0.1	2, 10, 4, 5, 9, 6, 7, 8, 13, 12, 3

Bibliography

Reference Textbooks

Ferrándiz. Dermatología Clínica. Isabel Bielsa. 5ª edición, Elsevier 2019

Dermatología para el grado de Medicina. Agustín España, 1ª edición, Panamericana 2019.

Jean L Bologna, Dermatology. Fourth Edition, Elsevier 2017

Tony Burns, Stephen Breathnach, Neil Cox, Christopher Griffiths. Rook's Textbook of dermatology. Ninth edition, 2016

Internet Resources

Wainwright BD. Clinically Relevant Dermatology Resources and the Internet: An Introductory Guide for

Practicing Physicians. Dermatology Online Journal 5(2): 8 (<http://dermatology.cblib.org/DOJdesk/desj.html>)
ADES: Advanced Dermatology Education Server (<http://ades.tmc.edu.tw/english/default.htm>).

Dermatology Image Bank at the University of Utah School of Medicine (<http://www-medlib.med.utah.edu/kw/derm/>)

Dermatology Online Image Atlas (DOIA) (http://dermis.net/bilddb/index_e.htm)

Software

1. Virtual Campus UAB
2. Connections Via Zoom and Teams
3. Google Drive or OneDrive to hang classes at pptx / pptx-audio / videos mp4 or mov, which can not be uploaded directly into the moodle platform of the subject (> 300 MB)
4. Kahoots App for interaction with students