Sveučilište u Rijeci • Fakultet dentalne medicine
University of Rijeka • Faculty of Dental Medicine

Course: Dermatovenereology
Course coordinator: Professor Ines Brajac, MD, PhD
Department: Department of Dermatovenerology
Study programme: Integrated Undergraduate and Graduate University Study of Dental medicine
Study year: 3rd year
Academic year: 2022/2023

SYLABBUS

Information about the course (brief description of the course, general instructions, where and in what form the classes are organized, necessary accessories, instructions on attendance and preparation for classes, student obligations, etc.):

The **Dermatovenerology** is the third-year compulsory course of the Integrated Undergraduate and Graduate University Study of Dental Medicine and consists of 10 hours of lectures and 5 hours of practicals, a total of 15 hours. The course is held in the premises of the Dermatovenerology Clinic of the Rijeka Clinical Hospital Center.

The course is part of Clinical Medicine 1.

The **aim** of the course is to acquire basic knowledge and skills in the dermatovenerology field. The goal is to acquaint students with basic dermatological diseases, with particular emphasis on those related to changes on the oral cavity mucosa. Getting to know the basic concepts of dermatological propaedeutics, i.e., with certain types of skin changes - efflorescences. Particular attention should be paid to specific groups of dermatoses, such as genodermatoses (hereditary skin diseases), certain palmo-plantar hyperkeratoses, benign and malignant skin tumors, psoriasis vulgaris, lichen planus, exudative and nodular erythema, scleroderma, chronic and systemic lupus erythematodes, the most common forms of skin tuberculosis, dermatomycoses, sexually transmitted diseases, viral diseases. The aim of the course is also to get familiar with laboratory tests performed in dermatology field (serology, mycology, allergy testing, immunofluorescent tests).

The course content as follows:

Introductory part - significance of dermatology in the framework of dental medicine, efflorescences and skin structure. Erythematosquamous skin diseases, psoriasis and lichen planus. Benign and malignant skin tumors (carcinomas, melanoma). Autoimmune diseases and bullous diseases. Viral skin diseases. Pyodermias. Dermatomycosis. Chronic and systemic lupus erythematosus. Acne vulgaris. Seborrheic dermatitis. Rosacea and Rhinophyma. Erythema nodosum. Allergic dermatoses. Venereal diseases.

Course description:

The course is conducted in the form of lectures and practicals. The expected duration of the class is a one week total. During the practicals, the instructor demonstrates and supervises the

students´s active participation in the practicals. Instructors discuss with students the specifics of performing individual practical. During the class there will be a mandatory colloquium, and at the end of the class there will be a written test. By completing all teaching activities and participating in the mandatory colloquium and final exam, the student earns 1.5 ECTS credits.

Assigned reading:

Bolognia JL, Schaffer JV, Cerroni L. Dermatology. 4th Edition. Philadelphia. Elsevier, 2018.

Optional reading:

Fakhry C et al. Oral cancer. Evaluation, Therapy, and Rehabilitation. Thieme, 2020.
Surber C et al. Topical Applications and the Mucosa. Karger, 2011.

COURSE TEACHING PLAN:

The list of lectures (topics and description):

1. Skin structure and efflorescences
Learning outcomes: Describe and explain the basic function and structure of the skin and mucous membranes. Differentiate efflorescences of the skin and mucosal membranes.

2. Infectious diseases
Learning outcomes: Classify bacterial, fungal and viral diseases of the skin and mucous membranes, their diagnostics and modern treatment methods. Explain the basic principles of approach to a patient with an infectious disease.

3. Allergic diseases
Learning outcomes: Classify allergic reactions and diseases. Formulate diagnose, recognize and adequately treat contact allergic dermatitis and atopic dermatitis. Recognize and solve emergency conditions in dermatology: Quincke's edema and acute urticaria. Describe the basic principles of anaphylaxis treatment.

4. Autoimmune disease
Learning outcomes: Explain the mechanisms of the autoimmune diseases of the skin. To diagnose and treat the most common skin autoimmune diseases, such as systemic lupus erythematosus, scleroderma, and dermatomyositis. Explain the basic principles of treatment of autoimmune diseases.

5. Erythematosquamous diseases
Learning outcomes: Analyze the most common erythematosquamous diseases, emphasizing psoriasis and lichen planus. Recognize physical phenomena on the skin related to psoriasis.

6. Bullous dermatoses
Learning outcomes: Describe diagnose and treatment of autoimmune bullous dermatoses, vulgar pemphigus, bullous pemphigoid, and herpetiform dermatitis.

7. Diseases of the mucous membrane of the oral cavity
Learning outcomes: Understand the main characteristics of the mucous membrane of the oral cavity and its specificity in the occurrence of skin diseases. To diagnose and treat the most common dermatoses occurring on the lips and in the oral cavity, for example, cheilitis, glossitis, and gingivitis. Differentiate the most common syndromes related to the buccal mucosa and tongue. To recognize systemic skin diseases that also manifest on the oral cavity's mucous membrane.

8. Sexually transmited diseases
Learning outcomes: Explain basic principles of approach to a patient with a venereal disease manifested by changes in the oral cavity. Name most common sexually transmitted diseases, especially those that manifest on the oral cavity's mucous membrane. Distinguish diagnostic algorithms for suspected sexually transmitted diseases.

9. Benign tumors
Learning outcomes: Describe the most common benign skin tumors, for example, hemangioma, fibroma, and seborrheic keratoses.

10. Malignant tumors
Learning outcomes: Describe the most common malignant tumors of the skin and mucous membranes, especially skin cancers (basal cell and squamous cell carcinoma) and melanoma.

The list of practicals (description):

1. Patient´s history and dermatological status (inpatient department)
Perform patient´s history. To recognize and describe different efflorescences of the skin and visible mucous membranes. To perform physical-diagnostic procedures: inspection, palpation, vitropressure, probe experiment, scraping of skin changes with a wooden stick, scalpel, curette or raspatorium, skin examination with a dermoscope. To apply the most important groups of local therapy in dermatology.

2. Developing specific competencies in dermatovenereology field (inpatient department, surgical office)
To perform physical-diagnostic procedures: Nikolsky phenomenon, Darier phenomenon. To acquire knowledge to perform skin biopsy. To perform cryotherapy and electrocoagulation in the treatment of keratoses, benign tumors, warts. To learn the basic dermatosurgical procedures (incision and drainage of skin abscess, total excision). To apply the local treatment of acne (expression of comedones and pustules).

3. Diagnostics of infectious diseases (laboratory for microbiology, mycology and parasitology)
Identify the mycelial fungal elements in the native preparation, along with macromorphological characteristics of the most common fungi in fungal culture. To identify the causative agent of scabies (Sarcoptes) in the native preparation. To examine in Wood's light (320-400 nm wavelength).

4. Diagnosis and treatment of chronic wounds (inpatient department, chronic wounds office, cabinet for Doppler diagnostics). Diagnosis of allergic diseases (allergology office).

Explain and treating venous ulcers by using bioocclusive dressings. Identify Doppler diagnostics of the lower extremities blood vessels. Explain algorithms in diagnosing allergic diseases. Analyze allergy testing (prick and patch tests). Describe emergency procedure in case of anaphylactic shock.

5. Diagnostics of autoimmune diseases (inpatient department, laboratory for immunofluorescence diagnostics)

Describe and explain diagnose and treat autoimmune diseases (bullous pemphigoid, vulgar pemphigus, cutaneous lupus and herpetiform dermatitis) and diagnostic procedures for autoimmune skin diseases (direct and indirect immunofluorescence, ELISA).

Students obligations:

Students are required to attend and actively participate in all forms of classes regularly.

Assessment (exams, description of colloquium and written exam, the scoring criteria):

ECTS credit rating system:

Evaluation of students is carried out according to the valid **Regulation on studies of the University of Rije**ka.

The students' work will be evaluated during the course and in the final exam. Out of a total of **100 points**, a student can get **70 points** during classes, and **30 points** in the final exam.

Students are graded using the ECTS system (A-F). Grading in the ECTS system is carried out by **absolute distribution**.

The course Dermatovenerology will be held in the form of lectures and practicals. During the course, there will be 1 mid-term exam and a written final exam at the end of the course. By completing all teaching activities and taking the mid-term and final exams, the student gains 2.0 ECTS points.

Students' work is evaluated during classes and on the final exam. By actively participating in classes and taking the mid-term exam, a student can collect a maximum of 70 grade points (70%). An additional 30 evaluation points (30%) are earned by the student in the final exam. Students are evaluated using the ECTS (A-F) system. Grading in the ECTS system is carried out by absolute distribution.

Out of the maximum 70 grade points that can be obtained during classes, the student must collect at least 30 grade points in order to take the final exam.

Students who collect 40 or more points during classes receive a final grade based on the sum of the points collected during classes and the points achieved on the final exam.

Students who collect less than 30 evaluation points will have the opportunity after the first exam period for one additional attempt to access the intermediate exam. The achieved grade points are added up in the same way and the same rules apply as for students who have accumulated grade points during classes. If students do not achieve at least 30 grade points even with a second attempt to pass the intermediate exam, do not have the right to take the final exam and have to re-enroll in the course (grade category F).

A student can miss a maximum of 30% of each form of teaching solely for **health reasons**, which is justified by a medical certificate (excuse letter). Compensation of practicals is not possible. If a student, justified or unjustified, misses more than 30% of classes, he cannot continue attending the course and loses the opportunity to take the final exam. With this, he will collect 0 ECTS points and will be graded F.

EVALUATION OF STUDENT ACTIVITIES AND METHOD OF ACQUIRING GRADE POINTS

The student is obliged to prepare material for individual **practical** in order to actively discuss the given topic with the instructor and other students. The instructor evaluates the demonstrated activity and knowledge of the student during the exercises with a maximum of **10 evaluation points** (range 0-10 evaluation points).

During the course, a mandatory **mid-term exam** is taken in the form of a written test, which checks the knowledge acquired during the lectures and practicals. The test has 60 questions and carries a **maximum of 60 points**. The criterion for obtaining evaluation points is 50% of correct answers (≥30). The number of correct answers achieved, from 30 upwards, corresponds to the number of grade points achieved. The passed intermediate exam is not transferable, that is, it is valid only for the current academic year. The points obtained in the written test are converted into grade points in the following way:

Number of correct answers	**Evaluation points**
≤29	0
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49

50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60

The **final exam** is in the form of a written test. The test consists of 60 questions and carries **a maximum of 30 points**. The criterion for passing the exam and obtaining grade points is 50% of correct answers (≥30). The points obtained in the written test are converted into grade points in the following way:

Number of correct answers	**Evaluation points**
≤29	0
30	1
31	2
32	3
33	4
34	5
35	6
36	7
37	8
38	9
39	10
40	11
41	12
42	13
43	14
44	15
45	16
46	17
47	18
48	19
49	20

50	21
51	22
52	23
53	24
54	25
55	26
56	27
57	28
58	29
59	30
60	30

Grading in the ECTS system is done by absolute distribution, that is, based on the final achievement:
A – 80 - 100% points
B – 70 – 79,9%
C – 60 – 69,9%
D – 50 – 59,9%
F – 40 – 49,9%

Final score as follows:
A = excellent (5)
B = very good (4)
C = good (3)
D = sufficient (2)
F = insufficient (1)

Scoring criteria	**Specific student´s activity**	**Scoring**
Activity during the practicals	Active monitoring of classes, activity and knowledge during practicals	10
Mid-term exam	Test with multiple choice tasks (written exam)	60
Final exam	Test with multiple choice tasks (written exam)	30
Total		**100**

Other important information regarding to the course:

Teaching contents and all information related to the course as well as exam dates are available on the web sites of the Department of Dermatovenerology.

COURSE SCHEDULE (for Academic year 2022/2023)

Date	Lectures (time and place)	Exams (time and place)	Practicals (time and place)	Instructor
20.10.2022.	15.30-17.45 h **L1-3** Clinical Hospital Center (CHC) Rijeka, Lecture room 1st floor			Prof. Ines Brajac, MD, PhD Prof. Marija Kaštelan, MD, PhD Prof. Larisa Prpić Massari, MD, PhD Prof. Sandra Peternel, MD, PhD
21.10.2022.	14.00-18.00 h **L4-8** CHC Rijeka, Lecture room 1st floor			Prof. Ines Brajac, MD, PhD Prof. Marija Kaštelan, MD, PhD Prof. Larisa Prpić Massari, MD, PhD Prof. Sandra Peternel, MD, PhD
24.10.2022.	08.15-09.45 h **L9-10** CHC Rijeka, Lecture room 1st floor	11.15-12.15 h **Mid-term exam (L1-4)** CHC Rijeka, Lecture room 1st floor		Prof. Ines Brajac, MD, PhD Prof. Marija Kaštelan, MD, PhD
25.10.2022.			09.00-13.00 **P1-5** Department of Dermatovenereology	Marijana Vičić, MD, PhD Nika Hlača, MD
26.10.2022.		15.30 h **Final exam** CHC Rijeka, Lecture room 1st floor		Prof. Ines Brajac, MD, PhD.

List of lectures and practicals:

	LECTURES (topics)	Number of teaching hours	Instructor
L1	Skin structure and efflorescences	1	Prof. dr. sc. Ines Brajac
L2	Infectious diseases	1	Prof. dr. sc. Ines Brajac
L3	Allergic diseases	1	Prof. dr. sc. Ines Brajac
L4	Autoimmune disease	1	Prof. dr. sc. Marija Kaštelan
L5	Erythematosquamous diseases	1	Prof. dr. sc. Marija Kaštelan
L6	Bullous dermatoses	1	Prof. dr. sc. Marija Kaštelan
L7	Diseases of the mucous membrane of the oral cavity	1	Prof. dr. sc. Sandra Peternel
L8	Sexually transmitted diseases	1	Prof. dr. sc. Sandra Peternel
L9	Benign tumors	1	Prof. dr. sc. Larisa Prpić Massari
L10	Malignant tumors	1	Prof. dr. sc. Larisa Prpić Massari
	Total number of lectures	**10**	

	PRACTICALS (topics)	Number of teaching hours	Place
P1	Patient´s history and dermatological status	1	Dpt. of Dermatovenereology
P2	Developing specific competencies in dermatovenereology field	1	Dpt. of Dermatovenereology, Surgical office
P3	Diagnostics of infectious diseases	1	Dpt. of Dermatovenereology
P4	Diagnosis and treatment of chronic wounds Diagnosis of allergic diseases	1	Dpt. of Dermatovenereology
P5	Diagnostics of autoimmune diseases	1	Dpt. of Dermatovenereology
	Total number of practicals	5	

	Exam dates (final exam)
1.	26.10.2022.
2.	30.11.2022.
3.	20.12.2022.