

MEDICAL UNIVERSITY - PLOVDIV
FACULTY OF MEDICINE

PROGRAM

IN

DERMATOLOGY AND VENEREOLOGY

Adopted by the Department Council with Protocol- № 28 / 01.07.2020 г.

Approved by the Faculty Council with Protocol № 5 dated 08.07.2020.

DERMATOLOGY AND VENEREOLOGY

TEACHING PLAN

Discipline	Semester exam	Часове				Hours by year and semester	
		Total	Lectures	Exercises	Credit	IV	V
Dermatology and Venereology	IX	VIII	IX				
		90	30	60	4.7	1/2	1/2

Name of the course:

„Dermatology and Venereology ”

Type of discipline according to EDI:

Mandatory

Level of training:

Master / M /

Forms of training:

Lectures, exercises, self-preparation

Training course::

4th year (VIII semester) and 5th year (IX semester)

Duration of training:

Two semesters

Horarium:

30 hours of lectures, 60 hours of exercises

Teaching aids:

Well-equipped classrooms, audiovisual equipment. Multimedia presentations, discussions, demonstrations of patients with skin diseases and sexually transmitted diseases, solving practical diagnostic and therapeutic tasks, demonstrations of research methods in dermatology - taking a biopsy, making microscopic preparations and cultures for mycological research, performing of allergological testing and reporting of skin-allergic samples, dermatoscopy, serological tests.

Forms of evaluation:

Weekly ongoing assessment, online tests, colloquia, practical exam.

Formation of the assessment:

An average current grade is formed for each semester.

Aspects in the formation of the assessment:

Participation in weekly discussions, results of written colloquia and online tests.

Semester exam:

Yes - entrance online test, written and oral exam.

State Examination:

No

Leading lecturer:

Habilitated lecturer from the Department of Dermatology and Venereology.

Department:

“Dermatology and Venereology”

ANNOTATION

The course "Dermatology and Venereology" provides an opportunity to acquire knowledge and skills for primary diagnosis, treatment and prevention of the most common dermatological and sexually transmitted diseases.

MAIN TASKS OF THE CURRICULUM

Acquisition of knowledge and skills for application of all modern methods and tools for primary dermatological diagnostics, treatment and prevention:

1. Taking a medical history of a skin patient.
2. Examination of rash elements:
 - inspection
 - examination with a magnifying glass
 - vitropressure
 - palpation
 - scraping the surface of the rash elements in squamous dermatoses
3. Objective examination of skin patients and description of dermatological status (description of rash elements)
4. Dermographism test
5. Examination of diagnostic symptoms in some skin diseases.
6. Interpretation of skin hypersensitivity tests
 - epicutaneous
 - scarification
 - intradermal
 - prick test

7. Observation of a microscopic preparation and culture for proving mycological disease.
8. Search for mites and observation under a microscope.
9. Objective examination of a patient with a sexually transmitted disease.
10. Preparation and observation of a microscopic preparation for gonococci.
11. Interpretation of serological tests.
12. Prescribing prescriptions for local and general therapy in dermatology.

EXPECTED RESULTS

Upon completion of the training, students must have the following knowledge and skills:

1. To master the skills of taking a dermatological history.
2. To know the basic methods for objective examination of skin rashes.
3. To be able to make a short description of dermatological status.
4. To know the methods for examination of dermatographism, diagnostic symptoms of psoriasis and pemphigus, capillary permeability.
5. To know the characteristics of skin tests for hypersensitivity: epicutaneous, scarification, intradermal, prick test.
6. To know the observed phenomena in a microscopic preparation and culture for proving mycological disease.
7. To know the methods for searching for mites in scabies and the observed phenomena in a preparation under a microscope.
8. To know the methods for objective examination of a patient with a sexually transmitted disease and to be able to prepare and observe a microscopic preparation for gonococci.
9. To know the interpretation of the tests for serological diagnosis of syphilis.
10. To be able to prescribe the most commonly used preparations for local and general therapy in dermatology.

LECTURES - THESIS

LECTION 1 – 2 hours

INTRODUCTION TO DERMATOLOGY. ANATOMY AND PHYSIOLOGY OF THE SKIN AND VISIBLE MUCOUS. PATHOLOGICAL CHANGES IN THE SKIN. SKIN ELEMENTS.

Annotation

Why we should study dermatology

Features in the anatomical structure of the skin

Basic physiological processes in the skin

Histopathological changes in the skin

Rash elements of the skin

LECTION 2 – 2 hours

PYODERMIA. ECTOPARASITOSIS. SKIN TUBERCULOSIS.

Annotation

Pyoderma: staphyloiderma, streptoderma.

Ectoparasitosis: scabies, pediculosis.

Cutaneous tuberculosis.

LECTION 3 – 2 hours

DERMATOVIROSES

Annotation

Dermatoviroses: infections of the herpes, papilloma, smallpox viruses.

Lyme disease: Lyme disease.

LECTION 4 - 2 hours

MYCOSES

Annotation

Mycoses of the skin: dermatomycoses, deep mycoses, yeast infections.

LECTION 5 – 2 hours

ERYTHEMOPAPULOSCAMOSAL DERMATOSIS

Annotation

Erythemopapulosquamous dermatoses: psoriasis, lichen ruber planus, pityriasis rosacea.

LECTION 6 – 2 hours

AUTOIMMUNE BULLOUS DERMATOSES:

Annotation

Pemphigus vulgaris, bullous pemphigoid, dermatitis herpetiformis.

LECTION 7 – 2 hours

ERYTHEMATOUS DERMATOSES. DISEASES OF THE SKIN APPENDICES.

Annotation

Erythematous dermatoses: erythema multiforme, erythema nodosum.

Diseases of the skin appendages: seborrheic dermatitis, acne, rosacea, alopecia.

LECTION 8 - 2 hours

ALLERGIC DERMATOSES.

Annotation

Allergic shock, urticaria, strophulus.

LECTION 9 - 2 hours

ALLERGIC DERMATOSES

Annotation

Eczema. Dermatitis.

LECTION 10 – 2 hours

MEDICAMENTOUS DERMATOSES

Annotation

Lyell's syndrome, medicamentous dermatitis, fixed erythema.

LECTION 11 – 2 hours

AUTOIMMUNE CONNECTIVE TISSUE DISEASES.

Annotation

Lupus erythematosus, scleroderma, dermatomyositis.

LECTION 12 – 2 hours

PRECANCEROSIS. BENIGN AND MALIGNANT SKIN TUMORS.

Annotation

Precancerous lesions.

Benign tumors.

Malignant tumors - basal cell carcinoma, spinal cord, melanoma.

LECTION 13 - 2 hours

SYPHILIS.

Annotation

Etiology, epidemiology, general course of syphilis.

Acquired syphilis - first, second, third stage. Neurosyphilis. Congenital syphilis.

Diagnosis and treatment of syphilis.

LECTION 14 – 2 hours

GONOCOCCIA. NON-GONOCOCCAL URETHRITIS.

Annotation

Gonococcus in men, women and children.

Non-gonococcal urethritis.

LECTION 15 - 2 hours

AIDS - SKIN MANIFESTATIONS.

Annotation

AIDS. Kaposi's sarcoma. Other cutaneous manifestations of AIDS.

EXERCISES - THESIS

EXERCISE № 1 - 2 hours

INTRODUCTION TO DERMATOLOGY

Annotation

Why study skin diseases

Examination of a patient with a skin disease - peculiarities in taking the anamnesis and status.

EXERCISE № 2 - 2 hours

RASH ELEMENTS OF THE SKIN AND VISIBLE MUCOSALS

Annotation

Spotted rash elements.

Dense rash elements.

Exudative rash elements.

Rash elements due to skin disorders.

Waste rash elements.

Shaving elements Structural changes of the skin - atrophy, hypertrophy, scarring.

Features of the rash elements on the visible mucous membranes.

EXERCISE № 3 - 2 hours

RASH ELEMENTS OF THE SKIN AND VISIBLE MUCOSALS

EXERCISE № 4 - 2 hours

EXTERNAL TREATMENT OF SKIN DISEASES. EXTERNAL PHARMACEUTICAL FORMS

Annotation

Simple and complex dosage forms for external use.

EXERCISE № 5 - 2 hours

GENERAL TREATMENT OF SKIN DISEASES

Annotation

Groups of drugs by mechanism of action.

EXERCISE № 6 - 2 hours

PYODERMIA

Annotation

Staphylodermia - diseases of the hair follicle, nails and smooth skin.

Streptoderma - impetigo, erysipelas, ecthyma.

EXERCISE № 7 - 2 hours

SKIN TUBERCULOSIS. COLLOQUIUM №1.

Annotation

Forms of cutaneous tuberculosis - primary and secondary.

Colloquium 1 topics - Skin rash elements. Treatment of skin diseases.

EXERCISE № 8 - 2 hours

DERMATOZOONOSES

Annotation

Scabies. Pediculosis. Dermatitis or insectitis.

EXERCISE № 9 - 2 hours

DERMATOVIROSES

Annotation

Herpes simplex. Shingles. Warts - vulgaris, flat, pointed.

Ecthyma contagiosum. Tuberculum mulgentium. Molluscum contagiosum.

EXERCISE № 10 - 2 hours

DERMATOMYCOSES

Annotation

Pityriasis versicolor. Tinea of the scalp, glabrous skin, palms and soles, nails.

EXERCISE № 11 - 2 hours

CANDIDAMICOSIS. DEEP MYCOSIS.

Annotation

Candidiasis of the skin and visible mucous membranes.

Actinomycosis.

EXERCISE № 12 - 2 hours

ERYTHEMOPAPULOSQUAMOUS DERMATOSES

Annotation

Psoriasis vulgaris, lichen ruber planus, pityriasis rosea.

EXERCISE № 13 - 2 hours

AUTOIMMUNE BULLOUS DERMATOSES

Annotation

Pemphigus vulgaris, bullous pemphigoid, dermatitis herpetiformis.

EXERCISE № 14 - 2 hours

ERYTHEMIC DERMATOSIS. COLLOQUIUM №2.

Annotation

Erythema multiforme, erythema nodosum.

Colloquium 2 topics - Infectious dermatoses. Erythemopapulosquamous dermatoses. Bullous dermatoses.

EXERCISE № 15 - 2 hours

LYME DISEASE.

Annotation

Lyme disease - clinical stages and treatment.

EXERCISE № 16 - 2 hours

ALLERGIC DERMATOSES

Annotation.

Urticaria - allergic and non-allergic. Strophulus.

EXERCISE № 17 - 2 hours

MEDICAMENTOUS DERMATOSES

Annotation

Allergic shock, Lyell's syndrome, Stevens-Johnson syndrome, drug dermatitis, fixed erythema.

EXERCISE № 18 - 2 hours

ECZEMA. DERMATITIS.

Annotation

Eczema.

Dermatitis - non-allergic and allergic dermatitis.

EXERCISE № 19 - 2 hours

DERMATOSIS CAUSED BY EXTERNAL FACTORS. PHOTODERMATOSIS.

Annotation

Dermatoses caused by low and high temperature.

Dermatoses caused by mechanical factors.

Photodermatosis.

EXERCISE № 20 - 2 hours

AUTOIMMUNE CONNECTIVE TISSUE DISEASES

Annotation

Lupus erythematosus. Dermatomyositis.

EXERCISE № 21 - 2 hours

AUTOIMMUNE CONNECTIVE TISSUE DISEASES

Annotation

Progressive and limited scleroderma.

EXERCISE № 22 - 2 hours

APHTHOSIS DISEASE. COLLOQUIUM №3.

Annotation

Recurrent aphthous ulcer. Morbus Behçet. Aphthous disease.

Colloquium 3 topics - Allergic and medicamentous dermatoses. Eczema. Dermatitis.
Autoimmune connective tissue diseases.

EXERCISE № 23 - 2 hours

SEBOREA AND SEBORA DISEASES. SEBOREA. ACNE. ROSACEA.

Annotation

Seborrhea. Acne vulgaris. Rosacea.

EXERCISE № 24 - 2 hours

BENIGN TUMORS OF THE SKIN AND MUCOUS. PRECANCEROSIS.

Annotation

Benign tumors of the skin and mucous membranes.

Precancerous lesions - optional and mandatory.

EXERCISE № 25 - 2 hours

MALIGNANT TUMORS OF THE SKIN AND MUCOSA.

Annotation

Basal cell carcinoma. Squamous cell carcinoma. Malignant melanoma.

EXERCISE № 26 - 2 hours

SYPHILIS

Annotation

Epidemiology, etiology, clinical picture and treatment of syphilis.

EXERCISE № 27 - 2 hours

GONOCOCCIA

Annotation

Gonococcia in men, women and children.

EXERCISE № 28 - 2 hours

AIDS-SKIN MANIFESTATIONS

Annotation

AIDS - skin manifestations. Kaposi's sarcoma.

EXERCISE № 29 - 2 hours

NON-GONOCOCCAL URETHRITIS. COLLOQUIUM №4.

Annotation

Non-gonococcal urethritis caused by bacteria, viruses, chlamydia, trichomonas, candida.

Colloquium 4 topics - Precancerous lesions. Benign and malignant skin tumors. Sexually transmitted diseases.

EXERCISE № 30 - 2 hours

PRACTICAL EXAM

LITERATURE FOR SELF PREPARATION

Дерматология и верология. Учебник за студенти по медицина и стоматология. Златков Н., Янкова Р., Добрев Х., Чудомирова К., Зисова Л., Ботев И., МИ "Райков", гр. Пловдив, 2010.

Заболявания на кожата и придатъците ѝ. Добрев Х. В: Справочник за диагностика и лечение на детските болести. 2-ро допълнено и преработено издание, Под ред. на Т. Шмилев. Медицинско издателство "Райко", Пловдив, 2014: 435-455.

Алергични заболявания. Клинканова М., Н. Сивкова, Хр. Добрев, Т. Шмилев. В: Справочник за диагностика и лечение на детските болести. 2-ро допълнено и преработено издание, Под ред. на Т. Шмилев. Медицинско издателство "Райко", Пловдив, 2014: 98-110.

Дерматологични и венерологични проблеми в общата медицинска практика. Янкова Р. В: Актуални аспекти на общата медицинска практика. Под ред. на Л. Деспотова-Толева. Мед. Издат. ЕТ „Васил Петров – ВАП”, Пловдив, 2009.

Questionnaire for self-training in dermatology and venereology

<https://www.yumpu.com/en/document/read/63216144/questionnaire-for-self-preparation-in-dermatology-and-venereology>

Dermatology. A handbook for medicall students and juniior doctors

<http://www.bad.org.uk/shared/get-file.ashx?itemtype=document&id=3632>

<http://www.bad.org.uk/healthcare-professionals/education/medical-students>

Clinical Dermatology. 3rd Ed., John Hunter, John Savin, Mark Dahl (eds), Blackwell Publ, 2002.

<https://backpackermedics.files.wordpress.com/2013/07/clinical-dermatology.pdf>

Shimizu's Textbook of Dermatology.
<http://www.derm-hokudai.jp/shimizu-dermatology/>

DermNet NZ. <http://www.dermnetnz.org/contents.html>

Dermatology Information System. DermIS.
<http://www.dermis.net/dermisroot/en/home/index.htm>

Dermatology Image Bank. John Bezzant.2000.
<http://library.med.utah.edu/kw/derm/>

Dermatology Atlas. Loyola University Dermatology Medical Education Website.
<http://www.meddean.luc.edu/lumen/MedEd/medicine/dermatology/melton/atlas.htm>

Sample exam test in dermatology and venereology

<https://dermaplovdiv.tripod.com/katedra-student-english.htm>

CONSPECTUS OF DERMATOLOGY AND VENEREOLOGY FOR STUDENTS OF MEDICINE

GENERAL DERMATOLOGY (EXAMEN CONVERSATION)

1. Structure of the epidermis and basement membrane.
2. Structure of the dermis and subcutis.
3. Structure of oral and genital mucosa.
4. Skin appendages – hair, nails, sebaceous and sweat glands.
5. Skin blood and lymphatic vessels. Skin innervation.
6. Skin functions - keratinization, melanogenesis, sweat and sebum secretion.
7. Skin functions – viscoelasticity, thermoregulation, epidermal barrier, skin innervation and immune system.
8. Functions of oral and genital mucosa.
9. Methods of investigation in dermatology.
10. Primary lesions – erythema, pigmentation, petechia, ecchymosis, telangiectasia, purport, papule, nodule, plaque, wheal, lichenification, vesicle, pustule, bulla.
11. Secondary lesions – erosion, excoriation, fissure, ulcer, scale, crust, atrophy, hypertrophy, scar.
12. Characteristics of oral lesions.
13. Histopathological changes in the epidermis, dermis and subcutis.
14. Topical treatment of skin diseases. Types of topical formulations (vehicles).
15. Topical treatment of skin diseases. Types topical agents by mode of action.
16. Systemic treatment of skin diseases.
17. Physical treatment of skin diseases.

SKIN DISEASES

1. Streptococcal skin infections. Impetigo. Erysipelas. Ecthyma.
2. Staphylococcal infections of the hair follicles.
3. Staphylococcal infections of the sweat glands and glabrous skin.
4. Cutaneous tuberculosis. E
5. Pityriasis versicolor.
6. Superficial dermatophyte infections.
7. Deep fungal infections. Actinomycosis.
8. Candidiasis.
9. Scabies
10. Pediculosis.
11. Lyme disease.
12. Herpes simplex virus infections. Herpes simplex.
13. Varicella-zoster virus infections. Varicella. Herpes zoster.
14. Papilloma virus infections. Viral warts.
15. Molluscum contagiosum. Tuberculum mulgentium. Ecthyma contagiosum.
16. Dermatoses due to external factors (physical, chemical and biological).
17. Erythema multiforme.
18. Erythema nodosum.
19. Psoriasis vulgaris.
20. Pityriasis rosea.
21. Lichen planus.
22. Pemphigus vulgaris.
23. Bullous pemphigoid.
24. Dermatitis herpetiformis.
25. Urticaria (hives). Angioedema. Papular urticaria.
26. Dermatitis contacta. Eczema contactum.
27. Atopic dermatitis. Atopic eczema.
28. Seborrhoeic dermatitis. Seborrhoeic eczema.
29. Drug eruptions. Etiopathogenesis. Anaphylactic shock. Urticaria and angioedema.
30. Drug eruptions. Toxic epidermal necrolysis (Lyell's disease). Stevens-Johnson syndrome.
- Fixed drug eruptions.
31. Lupus erythematosus.
32. Dermatomyositis.
33. Systemic sclerosis. Localized scleroderma.
34. Acrocyanosis. Perniones. Raynaud's phenomenon.
35. Chronic venous insufficiency in the lower limbs.
36. Vasculitis. Henoch-Schonlein purpura
37. Disorders of pigmentation. Albinism. Vitiligo. Melasma.
38. Genodermatoses. Ichthyosis vulgaris. Darier's disease. Epidermolysis bullosa.
39. Benign tumours of the skin.
40. Premalignant tumours of the skin.
41. Basal cell carcinoma.
42. Squamous cell carcinoma.
43. Malignant melanoma.
44. Kaposi's sarcoma.
45. Hair diseases.
46. Nail diseases.
47. Sebaceous glands diseases. Seborrhoea. Acne. Rosacea.

- 48. Aphthosis. (Behcet's disease)
- 49. Diseases of the lips and tongue. Cheilitis and glossitis.
- 50. Diseases of the mouth and gums. Gingivostomatitis.

SEXUALLY TRANSMITTED INFECTIONS

- 1. Syphilis – etiology, pathogenesis, and general disease course.
- 2. Primary syphilis.
- 3. Secondary syphilis.
- 4. Tertiary syphilis.
- 5. Neurosyphilis.
- 6. Congenital syphilis.
- 7. Laboratory tests for syphilis. Treatment for syphilis.
- 8. Gonococcal infection in men. Complications. Treatment.
- 9. Gonococcal infections in women. Complications. Treatment.
- 10. Pediatric gonorrhoea. Extragenital and disseminated gonorrhoea.
- 11. Non gonococcal urethritis. Complications. Treatment.
- 12. Balanitis and balanoposthitis.
- 13. Vulvitis and vulvovaginitis.
- 14. AIDS (skin and mucosal manifestations).