

LIST OF LESSON TOPICS
FOR MEDICAL FACULTY FOR INTERNATIONAL STUDENTS (DENTISTRY)
6th SEMESTER (SPRING)

Lesson 1. Skin pathology. Diagnostics in dermatology

Causes of skin diseases. Basics of skin pathology.

Principles of examination of dermatological patients. Diagnostics in dermatology. Primary and secondary skin lesions. Peculiarities of diagnostics in children and elderly people

Laboratory and special methods of examination in dermatology.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations.

Self-study: Examination of dermatological patients. Solving of situational problems.

Technical training aids: multimedia presentations, atlases 3 hours

Lesson 2. Principles of therapy of dermatoses

Formulations for topical therapy: solutions, powders, suspensions, creams, gels, pastes, ointments, plasters, lacquers, aerosols etc. Therapeutic indications. Contraindications.

Medicines for topical therapy – anti-inflammatory, resolving, keratolytic, antipruritic, caustic, antibacterial, antiviral, antifungal, antiparasitary etc. Therapeutic indications. Contraindications. Side effects.

Principles of general therapy in dermatology. Physical treatments in dermatology.

Practical skills: Identification of skin lesions, description of cutaneous and mucosal manifestations. Proper choice of medical formulation for external use

Self-study: Treatment of the skin of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases 3 hours

Lesson 3. Pustular diseases of the skin (pyodermas).

Pyodermas. Etiopathogenesis. Epidemiology. Factors contributing to the development of pyodermas. Classification (ICD-10). Clinical features, diagnostics and treatment of superficial folliculitis and folliculitis, sycosis (folliculitis barbae), furuncle and furunculosis, carbuncle, pseudofurunculosis, hydradenitis, different kinds of impetigo and ecthyma, chronic ulcerative pyodermas, atypical forms. Peculiarities in elderly people. Pyodermas in newborn (pseudofurunculosis, pemphigus neonatorum, staphylococcal scalded skin syndrome). Prevention of pyodermas.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use.

Self-study: Collection of the case history. Clinical examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 4. Fungal infections of the skin (mycoses)

Mycoses. Causative agents. Ways of infection. Factors contributing to the development of fungal infection. Pathogenesis. Epidemiology. Classification.

Candidiasis of the skin and mucosa. Causative agents. Pathogenesis. Epidemiology. Clinical presentations. Diagnostics. Differential diagnostics. Treatment. Prevention.

“Quarantine” mycoses: tinea faciei, tinea corporis, tinea capitis caused by *Microsporum* and *Trichophyton* spp. ectotrix and endotrix types. Tinea favosa. Causative agents. Pathogenesis. Epidemiology. Clinical presentations. Diagnostics. Differential diagnostics. Treatment. Prevention.

Practical skills: Practical component of the class: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use.

Self-study: Collection of the case history. Clinical examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 5. Viral infections of the skin and mucosa.

Herpes simplex and herpes zoster Etiopathogenesis. Epidemiology. Clinical presentations. Complicated and atypical forms. Diagnostics. General and topical therapy. Prevention.

Human papillomavirus infection. Warts. Etiopathogenesis. Epidemiology. Clinical forms. Condylomas acuminatum. Diagnostics. Treatment. Prevention.

Molluscum contagiosum. Etiopathogenesis. Epidemiology. Clinical presentations. Diagnostics. Treatment. Prevention.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use.

Self-study: Collection of the case history. Clinical examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 6. Dermatites, cheilites, eczema

Dermatites. Etiopathogenesis. Classification (ICD-10). Allergic and irritant contact dermatitis. Clinical presentations. Diagnostics and differential diagnostics. General and topical treatment. Prevention.

Cheilites. Primary cheilites (exfoliative, glandular, actinic, meteorological) and secondary (symptomatic). Clinical manifestations. Treatment. Prevention.

Eczema. Etiopathogenesis. Classification. Clinical types and stages of eczema. Diagnostics and differential diagnostics. General and topical treatment in accordance with eczema stage. Prevention.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use.

Self-study: Collection of the case history. Clinical examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 7. Drug and food eruptions. Erythema multiforme

Drug eruptions. Etiopathogenesis. Classification. Clinical types. Food-related and drug-related eruptions. Lyell's syndrome. Clinical features. Diagnostics and differential diagnostics. Treatment and prevention of different forms of drug eruptions. Urgent therapy of life-threatening forms.

Urticaria. Quincke's edema. Etiopathogenesis. Classification. Clinical types of urticaria. Diagnostics. Treatment principles. Urgent therapy. Prevention.

Erythema multiforme. Etiopathogenesis. Main clinical types. Features of Stevens-Johnson syndrome. Diagnostics. Treatment.

Practical skills: Practical component of the class: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use

Self-study: Collection of the case history. Clinical examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 8. Bullous dermatoses. Erythema multiforme.

Bullous dermatoses: pemphigus, bullous pemphigoid, dermatitis herpetiformis. Classification (ICD-10). Etiopathogenesis. Clinical manifestations. Diagnostics. Differential diagnostics. Treatment.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use. Revelation of Nikolsky sign, Asboe-Hansen sign.

Self-study: Examination of dermatological patients. Collection of the case history. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 9. Papulosquamous diseases of the skin

Psoriasis. Etiopathogenesis. Role of genetic factors in the development of disease. Classification. Clinical types of psoriasis, disease stages, complicated and atypical forms. Diagnostics and differential diagnostics. Diagnostic phenomena, their explanation. Pathomorphology. Principles of general and topical therapy depending on a disease stage. Relapse prevention.

Lichen planus. Etiopathogenesis. Clinical types of the disease affecting skin and oral mucosa. Diagnostics and differential diagnostics. Pathomorphology. Principles of general and topical therapy.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use. Revelation of Wickham sign. Revelation of psoriatic triad

Self-study: Collection of the case history. Clinical examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 10. Connective tissue autoimmune diseases

Collagenoses: lupus erythematosus, scleroderma. Classification (ICD-10). Etiopathogenesis. The significance of autoimmune factors in the development of collagenoses. Clinical and pathological features of cutaneous and mucosal manifestations. Treatment. Prevention.

Practical skills: obtaining of complaints, history of life and disease of dermatological patient. Examination of skin and mucosa of dermatological patient. Identification of skin lesions, description of cutaneous and mucosal manifestations. Interpretation of laboratory results. Proper choice of medical formulation for external use. Revelation of Besnier sign.

Self-study: Examination of dermatological patients. Collection of the case history. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 11. Primary and secondary syphilis.

Syphilis: causative agent. Incubation period. Factors affecting its duration.

Primary syphilis. Clinical characteristics of different types of typical chancre, atypical and complicated chancres. Clinical features of chancres in different locations. Differential diagnostics. Chancre pathology. Clinical peculiarities of regional lymphadenitis and lymphangitis. Polyadenitis. Prodrome. Current trends in primary syphilis course.

Secondary syphilis. Duration. Course features. Classification (ICD-10) Secondary syphilis of the skin and mucosa lasting less than 4 months and more than 4 months. Differential diagnosis. Clinical and histopathologic characteristics of cutaneous and mucosal lesions of secondary syphilis.

Practical skills: obtaining of complaints, history of life and disease of patient with sexually transmitted infection. Examination of skin and mucosa of patient with sexually transmitted infection. Identification of skin lesions, description of cutaneous and mucosal manifestations.

Self-study: Examination of patients. Collection of the case history. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 12. Tertiary, atypical, congenital syphilis

Tertiary syphilis. Causes and terms of development. Clinical presentations of tertiary syphilis of skin and oral mucosa. The affection of internal organs by tertiary syphilis.

Congenital syphilis. Ways of transmission to fetus. Influence of syphilis on course and outcome of pregnancy. Classification (ICD-10). Affection of skin, mucosa, internal organs in patients with early and late congenital syphilis. Reliable and probable signs of late congenital syphilis. Diagnostics. Prevention.

Atypical course of syphilis: latent, malignant, transfusion syphilis. Differential diagnostics of early and late latent syphilis.

Practical skills: obtaining of complaints, history of life and disease of patient with sexually transmitted infection. Examination of skin and mucosa of patient with sexually transmitted infection. Identification of skin lesions, description of cutaneous and mucosal manifestations.

Self-study: Examination of patients. Collection of the case history. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos 3 hours

Lesson 13. Serological diagnostics of syphilis. Treatment and prevention of syphilis

Serological diagnostics of syphilis: classical Wassermann test, precipitation-based tests (RPR, VDRL), ELISA (enzyme-linked immunosorbent assay), TPHA (passive hemmagglutination), immobilization of *Treponema pallidum* test, IFA (immunofluorescence assay), and others. Clinical significance of serological tests for syphilis diagnosis and their interpretation.

Treatment of syphilis. General principles. The clinical protocol (guideline) of diagnostics and treatment of patients with sexually transmitted infections. Antisyphilitic drugs. Basic treatment regimens. Nonspecific therapy of syphilis. The conception of seroresistance. Peculiarities of late syphilis treatment and treatment of syphilis in pregnant women. Preventive treatment. Prophylactic treatment. Ex-juvantibus treatment.

Practical skills: Interpretation of laboratory results. Evaluation of rapid plasma reagin test results. Evaluation of passive hemmagglutination test results.

Self-study: Examination of patients. Collection of the case history. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos

3 hours

Lesson 14. Gonorrhea

Gonorrhea. Etiology. Ways of contamination. Infection source. Routes of gonococcal infection dissemination within the body Classification. Main clinical manifestations of recent and chronic gonorrhea and their complications in male and female patients. Extragenital and metastatic gonorrhea. Methods of laboratory diagnostics of gonococcal infection. Principles of general and topical therapy of gonococcal infection and its complications. The clinical protocol (guideline) of diagnostics and treatment of patients with sexually transmitted infections. Public and individual prevention of gonorrhea.

Practical skills: obtaining of complaints, history of life and disease of patient with sexually transmitted infection. Examination of skin and mucosa of patient with sexually transmitted infection. Identification of skin lesions, description of cutaneous and mucosal manifestations.

Self-study: Examination of patients. Collection of the case history. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos

3 hours

Lesson 15. Acquired Immunodeficiency Syndrome

Characteristics of causative agent (Human Immunodeficiency Virus – HIV).

HIV-infection: pathogenesis, epidemiology, Immunologic disorders, classification, clinical appearance. Affection of the skin and mucous membranes in HIV patients (Kaposi's sarcoma, lymphomas, skin malignancies, bacterial, viral, mycotic lesions, non-infectious dermatoses etc). Clinical and laboratory diagnostics, principles of HIV infection therapy. AIDS prevention, including prevention in health care institutions.

Practical skills: obtaining of complaints, history of life and disease of patient with sexually transmitted infection. Examination of skin and mucosa of patient with sexually transmitted infection. Identification of skin lesions, description of cutaneous and mucosal manifestations.

Self-study: Examination of patients. Solving of situational problems. Writing out the prescriptions.

Technical training aids: multimedia presentations, atlases, case photos

2 hours

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