

**I. DEPARTMENT OF DERMATOLOGY, MEDICAL FACULTY OF MASARYK  
UNIVERSITY, BRNO**

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**GENERAL DERMATOLOGY**

1. The structure of the skin
2. Skin appendages – structure, function
3. The functions of the skin – physiology, biochemistry
4. Protective mechanisms of the skin (skin barrier, skin immune system, UV protection)
5. Topical therapy in dermatology - principles, examples
6. Systemic therapy in dermatology (i.e. antibiotics, antihistamines, retinoids, biologicals etc)
7. Corticosteroids – topical and systemic therapy, indications, contraindications, side effects
8. Terminology of the skin lesions
9. Distribution and patterns of skin lesions
10. Simple diagnostic tests and signs (Auspitz phenomenon, dermographism, Nikolski test, Darier's sign, Köbner's phenomenon, Tzanck's test etc)
11. Diagnostic procedures in skin diseases, dermoscopy
12. Basic types of immunologic reactions (principles, examples); hypersensitivity reactions in the skin, anaphylactic shock, Hoigne syndrome
13. Physical therapy in dermatology (except phototherapy)
14. Histopathology of the skin – general principles, common terms, indications
15. Pigment cells, their function
16. Phototherapy – methods, indications, contraindications
17. Taking the medical history in dermatology
18. Molecular genetics and the skin (tumours, infections, hereditary disorders)
19. Skin biopsy – principles, techniques
20. Preventive measures in skin diseases

**SPECIAL DERMATOLOGY**

1. Bullous diseases without autoimmune pathways
2. Pemphigus vulgaris and its subtypes
3. Pemphigoid and morbus Duhring
4. Erythema multiforme, Stevens Johnson syndrome, Lyell's syndrome
5. Drug eruptions
6. Connective tissue diseases
7. Bacterial skin infections
8. Erysipelas
9. Mycobacterial skin infections

10. Venous diseases and arterial diseases, ulcus cruris
11. Urticaria (mechanisms, allergic, non-allergic etiology)
12. Allergic contact dermatitis
13. Toxic (irritant) contact dermatitis
14. Atopic eczema, atopy
15. Seborrhoeic eczema
16. Acne
17. Rosacea, dermatitis perioralis
18. Sweat gland disorders
19. Dermatophytoses
20. Candidiasis and deep fungal infections
21. Parasitic diseases in dermatology
22. Lyme disease
23. Herpetic skin diseases
24. HPV and pox virus infection in dermatology
25. Ichthyoses and non ichthyotic disorders of keratinisation
26. Parainfectious exanthemas
27. Psoriasis vulgaris
28. Lichen planus
29. Skin in systemic diseases (diabetes mellitus, liver diseases, hematologic diseases, endocrinopathies etc)
30. Disorders of pigmentation
31. Disorders of hair
32. Disorders of nail
33. Cutaneous lymphomas
34. Benign skin tumours
35. Malignant epidermal tumours
36. Malignant melanoma
37. Paraneoplastic signs
38. Skin naevi
39. Skin reaction to light
40. Genodermatoses
41. Premalignant conditions

## **VENEREOLOGY**

1. Syphilis (stages, clinical course)
2. Syphilis, primary chancre
3. Syphilis congenita
4. Secondary syphilis
5. Diagnostic tests in syphilis
6. Tertiary syphilis
7. Treatment of syphilis, efficacy, side effects – Jarisch-Herxheimer reaction

8. AIDS symptoms on the skin and mucous membranes
9. STI's non venereal
10. Gonococcal acute infection in the male
11. Gonococcal chronic infection in the male
12. Gonococcal infection in the female
13. Distant complications of the gonococcal infection
14. Gonococcal infection in children
15. Gonorrhoea – diagnostic tests
16. Factors relevant for prevalence of venereologic infections
17. Ulcus molle
18. Sexually transmitted infections – STI's overview
19. Lymphogranuloma venereum and granuloma inguinale
20. Non venereal diseases of genital area – men, women