

Study program: Integrated Academic Studies in Medicine

Course title: Dermatovenereology

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Course status: compulsory

ECTS Credits: 4

Condition: Clinical Propaedeutics (exam); Pharmacology and Toxicology 1 (exam)

Course aim

To familiarize the candidate with:

- the basic anatomical and histological structure and physiological functions of the skin
- the basic pathohistological patterns of the most common dermatovenereological diseases
- the specific aspects of dermatovenereological anamnesis and physical examination and morphological aspects of skin lesions - efflorescences
- the clinical characteristics of the common, acute and urgent dermatovenereological conditions and skin lesions
- the diagnostic algorithms for the differentiation skin lesions and pigmented skin lesions, as well as the specific diagnostic procedures in dermatovenereology
- the specific topical and systemic therapy in dermatovenereology

Expected outcome of the course:

The candidate:

- is familiar with the structure and functions of normal skin in all pigmentary types and with the principles of wound healing
- applies knowledge of the physiological structure and skin functions in the context of changes in human skin properties and functions in skin diseases and impaired wound healing
- applies knowledge of pathophysiology in considering differential diagnosis, diagnostic procedures and therapy of dermatovenereological diseases
- is able to take and present coherent dermatovenereological history of the patient with the rash or skin lesion
- is careful and sensible while interaction with the patient, shows empathy and involves the patient in treatment decisions
- is able to examine the skin, nails and mucosa systematically, to describe and to record physical signs, as well as to use appropriate terminology in order to describe and classify skin changes
- synthesizes information and provides an assessment in order to define most likely diagnosis and differential diagnosis
- assesses psychosocial impact of dermatovenereological condition and need for additional health support to patient
- is competent to recognize and describe common, acute and urgent dermatovenereological conditions (eczematous eruptions, psoriasis, aceniform eruptions, the most common and all "suspicious" lesions, skin infections and infestations, acute urticaria).
- is competent to recognize and describe cutaneous manifestations of systemic diseases – paraneoplastic conditions; autoimmune disorders (such as vitiligo, alopecia areata), connective tissue disorders (lupus vasculitis); blood vessels diseases (venous and arterial ulcers, lymphedema).
- is able to recognize common nail changes that are observed in common dermatoses and dermatoses associated with systemic diseases.
- is able to structure a treatment plan and to rationalize therapeutic choice using evidence-based data presented in appropriate national and international guidelines.
- is able to recognize and to independently initiate treatment of common dermatovenereological diseases and diagnostic procedures, as well as to assess the need to continue specialized dermatovenereological treatment and the need to include other specialties.
- is able to independently assess a patient presenting with pruritus, recognizing potential systemic causes and ordering the appropriate initial investigations
- knows the principles of diagnosing and managing patients with the following acute and emergency presentations, including referral to appropriate specialties: acute (and chronic) urticaria (including papular urticaria / insect bites / stings), drug reactions including Stevens-Johnson syndrome / toxic epidermal necrolysis, extensive blistering eruptions, viral exanthemas, erythroderma, necrotizing fasciitis, generalized pustular psoriasis, eczema with secondary infection, staphylococcal scalded skin syndrome.

- prescribe safely topical treatments accounting for potency, formulation, body site, adverse effects, interactions, contraindications including: emollients and soap substitutes, corticosteroids, antibiotics, antifungals, retinoids, therapies for parasitic infestations, therapies for actinic keratosis and Bowen's disease
- prescribe safely oral treatments accounting for indication, adverse effects, interactions, contraindications including: antibiotics, antifungals, corticosteroids
- recognize the indications for and possible adverse effects of additional systemic therapies in the treatment of skin disease, such as retinoids, immunosuppressants and biological drugs

Course description

Theoretical education

1. Basic science in dermatovenereology
2. Acute and emergency conditions in dermatovenereology
3. Infections and infestations of the skin
4. Atopic dermatitis and other eczematoid conditions
5. Contact dermatitis and alergodermatoses
6. Erythemosquamous dermatoses – psoriasis, seborrheic dermatitis
7. Acne and acneiform eruptions
8. Bullous dermatoses
9. Benign skin tumors and precancerous lesions
10. Skin cancers and melanoma
11. Pruritus as a sign of systemic disease and pruriginous dermatoses
12. Cutaneous manifestations of underlying systemic autoimmune disease
13. Cutaneous and adnexal manifestations of underlying systemic (non autoimmune) diseases
14. Cutaneous manifestations in malignant disease- paraneoplastic signs
15. Sexually transmitted diseases

Practical education:

1. Anatomy, histology and function of skin and adnexa and physiological wound healing
2. History and examination
3. Skin terminology – efflorescences
4. Patohistology of the skin
5. Investigations and procedures specific for dermatovenereology (laboratory diagnosis for syphilis, other STDs, skin scrapings for mycology, taking skin biopsy...)
6. Assessment of a patient with skin manifestations of underlying systemic disease
7. Specific of topical and systemic dermatovenereology therapies
8. Treatment plan for acute and emergency conditions in dermatovenereology
9. Treatment plan for patients suffering from psoriasis and atopic dermatitis
10. Treatment plan for patients suffering from viral, bacterial and fungal infections and from infestations.
11. Treatment plan for patients with skin melanocytic and non-melanocytic lesions
12. Treatment plan for patients suffering from acne and acneiform eruptions

Literature

Compulsory

1. Wolff K, Johnson R, Saavedra AP. Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology, 6th Edition. McGraw-Hill Education, 2009.
2. Fauci AS, Braunwald E, Kasper DL, Hauser SL, Longo DL, Jameson JL, Loscalzo J. Harrison's Principles of Internal Medicine 17th. McGraw-Hill Education, 2008.

Additional

Lecture handouts.

Number of active classes

Theoretical classes: 30

Practical classes: 30

Other classes: 15

Teaching methods

Student activity assessment (maximally 100 points)

Pre-exam activities	points	Final exam	points
Lectures	10	Written	20
Practices	10	Oral	40
Colloquium	20		
Essay			