

2024/2025

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta:	Dermatovenerologija
Course title:	Dermatovenerology

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
Splošna medicina, enovit magistrski študijski program		Peti	9.
General medicine, Uniform master's degree study program		Fifth	9th

**Vrsta predmeta (obvezni ali izbirni) /
Course type (compulsory or elective)**

obvezni
compulsory

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
15	30	AV LV RV	15		60	4

**Nosilec predmeta / Course
coordinator:**

doc. dr. Maruška Marovt, dr. med.

Jeziki /Languages:

Predavanja / Lectures: slovenski/slovene
Vaje / Tutorial: slovenski/slovene

**Pogoji za vključitev v delo oz. za opravljanje študijskih
obveznosti:**

Pred posameznimi vajami je priporočljivo preučiti pripravljeno gradivo.

**Prerequisites for enrolling in the course or for
performing study obligations:**

Materials provided should be studied before each clinical session.

Vsebina (kratek pregled učnega načrta):

Zgradba in funkcija kože
Temeljni pristopi v dermatologiji
Diagnostične metode v dermatologiji
Akutna in urgentna dermatologija
Zdravljenje kožnih bolezni
Ekcem
Urtikarija in angioedem
Akne in akneiformne spremembe
Luskavica in druge papuloskvamozne dermatoze
Koža in sistemske bolezni
Avtoimunske bolezni kože
Bakterijske okužbe kože
Virusne okužbe kože

Content (syllabus outline):

Skin structure and function
Basic principles of dermatology
Diagnostic procedures in dermatology
Acute and emergency dermatology
Treatment of skin disorders
Eczematous eruptions
Urticaria and angioedema
Acne and acneiform eruptions
Psoriasis and other papulosquamous skin diseases
Skin signs and systemic diseases
Autoimmunity and skin
Bacterial skin infections
Viral skin infections

Glivične okužbe kože Parazitne okužbe kože Spolno prenosljive okužbe Kožne bolezni anogenitalnega področja Kožne bolezni otrok Granulomatozne kožne bolezni Motnje pigmentacije Fotodermatoze Bolezni ožilja Spremembe las in nohtov Psihodermatologija Benigni in maligni kožni tumorji	Fungal skin infections Infestations Sexually transmitted infections Anogenital skin diseases Pediatric dermatology Granulomatous skin diseases Pigmentary disorders Photodermatoses Vascular skin disorders Hair and nail disorders Psychodermatology Benign and malignant skin lesions
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Temeljni literatura in viri / Reading materials:

- Gawkrödger DJ, Ardern-Jones MR. Dermatology. Elsevier 7th Ed, 2021
- Zhen Chiang NY, Verbov J. Dermatology: A handbook for medical students and junior doctors. British Association of Dermatologists 3rd Ed, 2020
- A. Kansky, J. Miljković in M. Dolenc-Voljč. Kožne in spolne bolezni, III dop. izdaja. Medicinska fakulteta Univerze v Mariboru, Medicinska fakulteta Univerze v Ljubljani in Združenje slovenskih dermatovenerologov, Maribor-Ljubljana, 2017
- Saavedra AP, Roh EK, Mikailov A. Fitzpatrick's color atlas and synopsis of clinical dermatology. McGraw Hill 9th Ed, 2023
- Bologna JL, Schaffer J, Cerroni L. Dermatology: 2-Volume Set 5th Edition. Elsevier, 2024

Cilji in kompetence:

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Cilj: Usposobiti študente za prepoznavanje pogostih kožnih bolezni, da bi pravilno določili njihovo preprečevanje, diagnozo in zdravljenje.

Kompetence: Pridobiti znanje in klinične spretnosti, da bodo lahko študenti prepoznali glavne dermatološke težave ter opredelili verjetno diagnozo in načela zdravljenja.

Objectives and competences:

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Objective: To train students to recognise common skin diseases in order to properly determine their prevention, diagnosis, and treatment.

Competences: Students should acquire the knowledge and clinical skills to be able to identify main skin problems and indicate possible diagnosis and treatment principles.

Predvideni študijski rezultati:

Znanje in razumevanje:

Osnovno znanje
Študenti bodo znali:

- opisati strukturo in funkcije normalne kože
- opisati načela celjenja ran
- povezati znanje o normalni zgradbi in delovanju kože s spremembami, ki se pojavijo pri kožnih boleznih
- uporabiti znanje o patofiziologiji pri diagnosticiranju in zdravljenju kožnih bolezni

Klinične spretnosti
Študenti bodo znali:

- pridobiti in predstaviti anamnezo bolnikov s kožno boleznijo
- sočutno obravnavati bolnike s kožnimi boleznimi
- sistematično pregledati in z ustrezno terminologijo opisati ter zapisati klinične znake na koži, laseh in nohtih
- sintetizirati popolno oceno bolnikovih težav in

Intended learning outcomes:

Knowledge and Understanding

Background knowledge
Students will be able to:

- Describe the structure and functions of normal skin
- Describe the principles of wound healing
- Relate knowledge of normal skin structure and function to alterations that occur in the context of skin disease
- Apply knowledge of pathophysiology when discussing the processes of diagnosis, investigation and treatment of skin disease

Clinical skills
Students will be able to:

- Take and present a coherent dermatological history from patients presenting with a lesion or rash
- Interact sensitively with people with skin diseases
- Examine, describe and record physical signs in skin, hair, and nails systematically with appropriate terminology
- Synthesize a full assessment of a patient's problems and

opredeliti verjetne diagnoze • razložiti indikacije za punch biopsijo in ekscizijo ter njihove praktične značilnosti • prikazati, kako pridobiti vzorce za bakterijsko, virusno in glivično testiranje Urgentna dermatologija Študenti bodo znali prepoznati najpogostejše nujne kožne bolezni ter razpravljati o njihovih vzrokih in morebitnih zapletih Vnetne bolezni Študenti bodo znali opisati epidemiologijo, patofiziologijo in klinično sliko pogostih vnetnih kožnih bolezni (ekcem, luskavica in akneiformne spremembe) ter uporabiti znanje za oceno bolnika, oblikovanje diferencialne diagnoze, uvedbo preiskav ter začetno in nadaljnjo oskrbo Kožne in sistemske bolezni Študenti bodo znali: • opisati kožne manifestacije avtoimunskih bolezni (vitiligo, alopecija areata), sistemskih vezivnotkivnih bolezni (lupus, vaskulitis) in žilnih bolezni (venske in arterijske razjede, limfedem) ter paraneoplastičnih pojavov • oceniti bolnika s srbežem in prepoznati morebitne sistemske vzroke • prepoznati značilne spremembe nohtov pri pogostih boleznih kože, in tiste, povezane s sistemskimi boleznimi Okužbe kože Študenti bodo znali opisati klinično sliko, preiskave in zdravljenje pogostih bakterijskih (impetigo, folikulitis, celulitis, šen), virusnih (herpes simpleks, zoster, moluski), glivičnih (dermatofitije, kandidiaza, pityriasis versicolor) in parazitnih okužb kože (garje, uši) ter spolno prenosljivih okužb (klamidija, gonoreja, sifilis). Tumorji Študenti bodo znali prepoznati virusne bradavice, epidermalne inkluzijske ciste, melanocitne nevuse, seboroične keratoze, aktinične keratoze, dermatofibrom, keratoakantom, lipom, piogeni granulom, mycosis fungoides, kožne metastaze, bazalocelični karcinom, ploščatocelični karcinom in melanom Zdravljenje Študenti bodo znali opisati načela uporabe lokalnih kortikosteroidov, lokalnih antibakterijskih zdravil, lokalnih retinoidov, lokalnih zaviralcev kalcineurina, fototerapije, peroralnih retinoidov, metotreksata in bioloških zdravil Prenesljive/ključne spretnosti in drugi atributi: Odvzem brisov za bakteriološke in virološke preiskave, odvzem lusk za mikološko preiskavo in krioterapija virusnih bradavic.	define the likely diagnoses - Explain the indications for and practicalities of punch biopsy, and simple excision - Demonstrate how to obtain samples for bacterial, viral and fungal testing Emergency dermatology Students will be able to demonstrate they can recognise common dermatologic emergency presentations and discuss the causes and potential complications Inflammatory diseases Students will be able to describe the epidemiology, pathophysiology and presentations of common inflammatory skin diseases (eczematous eruptions, psoriasis, and acneiform eruptions), and apply knowledge to assess a patient, formulate a differential diagnosis, instigate investigation, and provide initial and continuing care Skin and systemic disease Students will be able to: - Describe cutaneous manifestations of autoimmune diseases (vitiligo, alopecia areata), connective tissue disease (lupus, vasculitis), vascular disease (venous and arterial ulcers, lymphedema), and paraneoplastic phenomena - Assess a patient presenting with pruritus, and recognizing potential systemic causes - Recognize typical nail changes seen in common dermatoses and those associated with systemic disease Skin infections and infestations Students will be able to describe the presentation, investigation and management of common bacterial (impetigo, folliculitis, cellulitis, erysipelas), viral (herpes simplex, shingles, molluscum contagiosum), fungal (dermatophytosis, candidiasis, pityriasis versicolor), parasitic skin infections (scabies, lice infestations), and sexually transmitted infections (chlamydia, gonorrhoea, syphilis) Tumours Students will be able to recognise viral warts, epidermal inclusion cysts, melanocytic naevi, seborrheic keratoses, actinic keratoses, dermatofibroma, keratoacanthoma, lipoma, pyogenic granuloma, mycosis fungoides, cutaneous metastases, basal cell carcinoma, squamous cell carcinoma, and melanoma Management and therapeutics Students will be able to describe the principles of use of topical corticosteroids, topical antibacterials, topical retinoids, topical calcineurin inhibitors, phototherapy, oral retinoids, methotrexate, and biologics Transferable/Key Skills and other attributes: Collecting skin samples for bacterial and viral testing, collecting skin scrapes for mycological testing, and viral warts cryotherapy.
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Metode poučevanja in učenja:		Learning and teaching methods:
- predavanja - seminarji - vaje		- lectures - seminars - practical training
Načini ocenjevanja:		Assessment methods:
- seminar -praktični izpit - teoretični izpit Pogoj za pristop k izpitu: Pogoja za pristop teoretičnemu izpitu sta opravljen seminar in praktični izpit. Praktični izpit predstavlja 10 kliničnih primerov, pri katerih študenti prepoznajo klinične slike in opišejo diagnostični pristop. Teoretični izpit predstavlja 35 vprašanj izbirnega tipa. Za pozitivno oceno je potrebno pri vsakem delu ocene (seminar, praktični izpit, teoretični izpit) pridobiti vsaj 51 %.		- seminar - practical examination - theoretical examination REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING: Students are required to make a seminar and pass practical examination in order to approach theoretical examination. Practical examination is made of 10 clinical cases, in which students correctly describe clinical images and diagnostic approach. Theoretical examination is made of 35 multiple-choice questions. A pass grade requires at least 51 % in each part of the assessment (seminar, practical exam, theoretical exam).

Reference nosilca / Course coordinator's references:

Wolf P, Ceovic R, Conrad C, Falkensteiner K, Graier T, Kořt-Kamińska M, Marovt M, Mateeva V, Maul JT, Navarini AA, Nicolescu AC, Ratzinger G, Pavlovsky L, Sanzharovskaya M, Szegedi A, Reich A. Characteristics and management of generalized pustular psoriasis (GPP): Experience from the Central and Eastern Europe (CEE) GPP Expert Network. J Eur Acad Dermatol Venereol. 2024 Jan 27. doi: 10.1111/jdv.19808. Epub ahead of print. PMID: 38279888.

Marovt M, Deželak P, Ekart R, Marko PB. Immune response to SARS-CoV-2 mRNA vaccine in patients with psoriasis treated with biologics. Clin Exp Dermatol. 2022 Nov;47(11):2041-2043. doi: 10.1111/ced.15347. Epub 2022 Aug 27. PMID: 35938595; PMCID: PMC9538036.

Grželj J, Marovt M, Marko PB, Mlinarič-Raščan I, Gmeiner T, Šmid A. Polymorphism in Gene for ABCC2 Transporter Predicts Methotrexate Drug Survival in Patients with Psoriasis. Medicina (Kaunas). 2021 Oct 1;57(10):1050. doi: 10.3390/medicina57101050. PMID: 34684087; PMCID: PMC8539794.

Marovt M, Marko PB. Apremilast monotherapy for palmoplantar pustulosis: Report of three cases. SAGE Open Med Case Rep. 2021 Aug 11;9:2050313X211034926. doi: 10.1177/2050313X211034926. PMID: 34394938; PMCID: PMC8361521.

Grželj J, Mlinarič-Raščan I, Marko PB, Marovt M, Gmeiner T, Šmid A. Polymorphisms in GNMT and DNMT3b are associated with methotrexate treatment outcome in plaque psoriasis. Biomed Pharmacother. 2021 Jun;138:111456. doi: 10.1016/j.biopha.2021.111456. Epub 2021 Mar 10. PMID: 33714108.