



Univerza v Mariboru

Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta:	Nevrologija
Course title:	Neurology

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
Splošna medicina, enovit magistrski študijski program		Četrtri	7.
General medicine, Uniform master's degree study program		Fourth	7th

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
45	45				20		100	7
		AV	LV	RV				

Nosilec predmeta / Course coordinator:

prof. dr. Tanja Hojs Fabjan

Jeziki /Languages:

Predavanja / Lectures:

slovenski/slovene

Vaje / Tutorial:

slovenski/slovene

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

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

Vsebina (kratek pregled učnega načrta):

Študent spozna praktični pristop k nevrološkemu bolniku, nevrološko preiskavo, teoretične osnove, ki pomagajo pri postavljanju diagnoze, anatomsko in patološko diagnozo ter posebne preiskovalne metode.

Content (syllabus outline):

The student becomes aware of the empirical access to a neurological patient, neurological investigation, theoretical basis, which help to form the diagnosis,

Na osnovi naučene nevrološke preiskave in drugih sodobnih metod se uči prepoznavanja najpogostejših nevroloških simptomov in bolezni: možganskožilnih bolezni, njihove dejavnike tveganja, zdravljenje in preprečevanje, znake zvišanega intrakranialnega tlaka – ekspanzivne procese, epilepsijo, demielinizirajoče bolezni osrednjega živčevja, bolezni gibanja (ekstrapiramidne motnje), bolezni motorične ploščice, živčno-mišične bolezni, bolezni hrbtenjače, bolezni perifernih živcev, degenerativne bolezni živčnega sistema, glavobol in različne nevralgije, demenco nevrološkega izvora, infekcije živčevja, poškodbe osrednjega živčevja. Prav tako spoznava nevrološke aspekte pri zastrupitvah, boleznih zasvojenosti in različnih psihiatričnih boleznih.

anatomical and pathological diagnosis and special investigation methods.

On the basis of the learned neurological investigation and other modern methods he/she learns to recognize the most common neurological symptoms and diseases: cerebrovascular diseases, their risk factors, therapy and prevention, signs of elevated intracranial pressure – expansive processes, epilepsy, demyelinating disease of the central nervous system, movement disorders (extrapyramidal disorders), neuromuscular junction diseases, neuro – muscular diseases, diseases of the spinal cord, diseases of the peripheral nerves, neurodegenerative diseases, headache and different neuralgias, dementia, infections of the nervous system, trauma of the central nervous system. He/she recognizes also neurological aspects of poisoning, disorders of abuse and various psychiatric diseases.

Temeljni literatura in viri / Reading materials:

Temeljna literatura

- T. J. Fowler (avtor), John W Scadding, Nick Losseff. Clinical Neurology (2003, 2011)
- Lavrič. Klinična nevrološka preiskava (2007)

Dopolnilna literatura:

- Mathia Baehr, Michael Fritscher. Duus' Topical Diagnosis in Neurology (1997, 2012)
- Geraint Fuller. Neurological Examination Made Easy (2004, 2013)

Cilji in kompetence:

Iz predkliničnih predmetov študent povezuje znanja iz patofiziologije, patologije, anatomije in se uči spoznati motnje v delovanju živčevja. Poleg nevrološke preiskave spozna različne diagnostične metode v nevrologiji, njihove prednosti in omejitve, spozna naravo nevroloških okvar in bolezni, predvsem tistih, ki jih kot zdravnik splošne prakse najpogosteje srečuje, njihovo zdravljenje in preprečevanje.

Objectives and competences:

The student links knowledge from preclinical subjects pathophysiology, pathology, anatomy and he/she learns how to recognize a disorder in the functions of the nervous system. Besides neurological investigation he/she recognizes various diagnostic methods in neurology, their advantages and disadvantages; he/she recognizes the nature of the neurological disorders and diseases, especially those, a doctor of a general practice meets, their therapy and prevention.

Predvideni študijski rezultati:

Znanje in razumevanje:
Razumevanje patofizioloških mehanizmov najpogostejših nevroloških bolezni in sindromov.
Znanje (vključno o urgenci) nevroloških stanj, ki jih zdravnik splošne medicine najpogosteje srečuje.
Prenesljive/ključne spretnosti in drugi atributi:
Obvladovanje nevrološkega statusa.
Sposobnost aktivnega vključevanja v različne projekte.

Intended learning outcomes:

Knowledge and Understanding:
Understanding the pathophysiology of the most frequent neurological diseases and syndromes.
Knowledge (including of the urgency) of neurological diseases, that a doctor of general practice the most frequently meets.
Transferable/Key Skills and other attributes:
The proficiency of the neurological investigation.
The ability of active participation in different projects.

Metode poučevanja in učenja:

Predavanja.
Vaje.
Seminarji.

Learning and teaching methods:

Lectures.
Practices.
Seminars.

Delež (v %) /

Share (in %)

Načini ocenjevanja:**Assessment methods:**

Način (pisni izpit, ustno izpraševanje, naloge, projekt) izpit (opravljen seminar pogoj za pristop k izpitu, 80 % prisotnost na seminarjih) praktični in teoretični del izpita (oba dela sta enakovredna in brez opravljenega praktičnega dela ni možen pristop k teoretičnemu delu izpita) ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV: Opravljen seminar, vaje POGOJI ZA PRISTOP K POSAMEZNEMU PREVERJANJU ZNANJA: -	100	Type (examination, oral, coursework, project): Exam (completed seminar is condition for approach to exam): practical and theoretical exam. Each counts as 50% to final grade. Passed practical exam is required for approach to theoretical exam. ACADEMIC OBLIGATIONS OF STUDENTS: - REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING:-
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Reference nosilca / Course coordinator's references:

BEYOND Study Group, O'CONNOR, Paul, FILIPPI, Massimo, ARNASON, Barry, ŠEGA, Saša, **HOJS-FABJAN, Tanja**. 250 [micro]g or 500 [micro]g interferon beta-1b versus 20 mg glatiramer acetate in relapsing-remitting multiple sclerosis. *Lancet neurol. (Print)*, 2009, vol. 8, issue 10, str. 889-897

LIZROVA PREININGEROVA, Jana, BAUMHACKL, Ulf, CSEPANY, Tunde, CZAPLINSKI, Adam, DEISENHAMMER, Florian, DERFUSS, Tobias, **HOJS-FABJAN, Tanja**, FAZEKAS, Franz, FUCHS, Siegrid, HAVRDOVA, Eva, HORVAT-LEDINEK, Alenka, ILLES, Zsolt, ŠEGA, Saša, KLIMOVA, Eleonora, KOMOLY, Samuel, KURČA, Egon, LINNEBANK, Michael, LISY, Lubomir, MARES, Jan, PROCHAZKOVA, Lubica, CSILLA, Rozsa, SZILASIOVA, Jarmila, STOURAC, Pavel, TALAB, Radomir, TURČANI, Peter, VACHOVA, Marta, VECSEI, Laszlo, VODUŠEK, David B., ZAPLETALOVA, Olga, BERGER, Thomas.

Recommendations for the use of prolonged-release fampridine in patients with multiple sclerosis (MS). *CNS neurosci. ther. (Print)*, May 2013, vol. 19, iss. 5, str. 302-306.

Pikija, Slaven, Magdič Jožef, **Hojs Fabjan Tanja**. Calcifications of Vertebrobasilar Arteries on CT: Detailed Distribution and Relation to Risk Factors in 245 Ischemic Stroke Patients. *Biomed Res Int*, 2013, vol. 2013, str. [1]-7

HOJS FABJAN Tanja, Hojs Radovan. Stroke and renal dysfunction. *European Journal of Internal Medicine*, 2013

FAZEKAS, Franz, BERGER, Thomas, **HOJS-FABJAN, Tanja**, HORVAT-LEDINEK, Alenka, GÁBOR, Jakab, KOMOLY, Samuel, KRAUS, Jörg, KURČA, Egon, KYRIAKIDES, Theodoros, LISY, Lubomir, MILANOV, Ivan, PANAYIOTOU, Panayiotis, ŠEGA, Saša, TALAB, Radomir, TRAYKOV, Latchezar, TURČANI, Peter, VASS, Karl, VELLA, Norbert, HAVRDOVA, Eva. Fingolimod in the treatment algorithm of relapsing remitting multiple sclerosis : a statement of the Central and East European (CEE) MS Expert Group. *Wien. med. Wochenschr. (1946)*, 2012, [Vol.] 162, [no.] [15/16], str. 354-366.

PENKO, Meta, **HOJS-FABJAN, Tanja**, BEVC, Sebastjan, KANIČ, Vojko, HOJS, Radovan. A prospective study about impact of renal dysfunction and morbidity and mortality on cardiovascular events after ischemic stroke. *Cardiol. J. (Print)*, 2013

HOJS-FABJAN, Tanja, PENKO, Meta, HOJS, Radovan. Cystatin C, creatinine, estimated glomerular filtration, and long-term mortality in stroke patients. *Renal failure*, ISSN 1525-6049, 2014, vol. 36, no. 1, str. 81-86,

HOJS-FABJAN, Tanja, HOJS, Radovan. Stroke and renal dysfunction. *European journal of internal medicine*, ISSN 0953-6205, Jan. 2014, vol. 25, no. 1, str. 18-24.

HOJS-FABJAN, Tanja, HOJS, Radovan. Ischemic stroke : the impact of renal dysfunction on 1-year mortality. *Wiener Klinische Wochenschrift*, ISSN 0043-5325, 2015, jg. 127, suppl. 5, str. S175-S180

HOJS-FABJAN, Tanja. Predicting short-term (30-day) mortality in patients with ischemic stroke using the baseline score of the National Institutes of Health Stroke Scale = Lestvica NIHSS (National Institutes of Health Stroke Scale) in kratkoročna (30-dnevna) umrljivost bolnikov z ishemično možgansko kapjo. *Acta medico-biotechnica*, 2012, vol. 5, no. 1, str. 46-53.

FAZEKAS, Franz, BAJENARU, Ovidiu, BERGER, Thomas, **HOJS-FABJAN, Tanja**, HORVAT-LEDINEK, Alenka, GÁBOR, Jakab, KOMOLY, Samuel, KOBYS, Tetiana, KRAUS, Jörg, KURČA, Egon, KYRIAKIDES, Theodoros, LISY, Lubomir, MILANOV, Ivan, NEHRYCH, Tetyana, MOSKOVKO, Sergii, PANAYIOTOU, Panayiotis, ŠEGA, Saša, SOKOLOVA, Larysa, TALAB, Radomir, TRAYKOV, Latchezar, TURČÁNI, Peter, VASS, Karl, VELLA, Norbert, VOLOSHYNÁ, Nataliya, HAVRDOVA, Eva. How does fingolimod (gilenya) fit in the treatment algorithm for highly active relapsing-remitting multiple sclerosis?. *Frontiers in Neurology*. [Online ed.], May 2013, vol. 4, article 10, str. 1-14.

HOJS-FABJAN, Tanja, HOJS, Radovan. Polyneuropathy in hemodialysis patients: The most sensitive electrophysiological parameters and dialysis adequacy. *Wien. klin. Wochenschr., Suppl.*, 2006, jg. 118, suppl. 2, str. 29-34.

International Stroke Trial Collaborative Group, GRAD, Anton, MEGLIČ, Bernard, ŠVIGELJ, Viktor, **HOJS-FABJAN, Tanja**. The international stroke trial (IST): a randomized trial of aspirin, subcutaneous heparin, both, or neither among 19 435 patients with acute ischaemic stroke. *Lancet (Br. ed.)*. [Printed.], May 1997, vol. 349, no. 9065, str. 1569-1581.

TOPMAT-MIG-303 investigators, DIENER, Hans-Christoph, AGOSTI, Reto, ALLAIS, Gianni, BERGMANS, Paul, BUSSONE, Gennaro, DAVIES, Brendan, ERTAS, Mustafa, LANTERI-MINET, Michel, REUTER, Uwe, SÁNCHEZ DEL RÍO, Margarita, SCHOENEN, Jean, SCHEALEN, Susanne, VAN OENE, Joop, POGAČNIK, Tomaž, **HOJS-FABJAN, Tanja**. Cessation versus continuation of 6-month migraine preventive therapy with topiramate (PROMPT): a randomised, double-blind, placebo-controlled trial. *Lancet neurol. (Print)*, Dec. 2007, vol. 6, no. 12, str. 1054-1062.