



Univerza v Mariboru



MEDICINSKA FAKULTETA

UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION

Predmet:	Izbrane vsebine in novosti v nevrologiji
Subject Title:	Selected topics and novelties in neurology

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Splošna medicina General medicine - EMŠP		5, 6	10, 11

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Labor work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
5	40				45	3

Nosilec predmeta / Lecturer:

Prof. dr. Tanja Hojs Fabjan

Jeziki /

Predavanja / Lecture: Slovenski/slovene

Languages:

Vaje / Tutorial:

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

Prerequisites:

Vsebina:

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

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, 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 / Textbooks:

- Clinical neurology, C.D. Marsden, T.J. Fawler, Edvard Arnold, 1989.
- Brain`s clinical neurology, revised by Sir R. Bannister, Oxford, zadnja izdaja.
- Integrated clinical science-Neurology: R.W.R. Russell, C.M. Wiles, Heinemann, 1985.
- Topical diagnose in neurology: anatomy, psihology, signs, symptoms. Peter Duus, Thieme, 1989.
- Klinična nevrološka preiskava, Anton Lavrič, Ur.: Martin Janko, Ljubljana, Medicinski razgledi, 1996, (osnovni pripomoček za vaje).
- Višja živčna dejavnost, Med. Razgl., 1992; 31:369-400, D. Vodušek
- Gibanje, Med. Razgl., 1987; 26:377-349, M. Janko
- Motnje gibanja, 1991; 30:55-69. M. Janko
- Sodobni pogledi na možgansko-žilne bolezni, 2003; E. Tetičkovič, B. Žvan in sod.
- Možganska kap – do kdaj, 2007, E. Tetičkovič, B. Žvan.

Cilji:

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 zdravnik splošne prakse najpogosteje srečuje, njihovo zdravljenje in preprečevanje.

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.

Metode poučevanja in učenja:

Predavanja.
Seminarji.

Objectives:

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.

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

Learning and teaching methods:

Lectures.
Seminars.

Delež (v %) /
Weight (in %)

Način (pisni izpit, ustno izpraševanje, naloge, projekt)		Type (examination, oral, coursework, project):
Izpit	100 %	Exam

Reference nosilca / Lecturer'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. *Ren. fail.*, 2013

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, NEHRICH, Tetyana, MOSKOVKO, Sergii, PANAYIOTOU, Panayiotis, ŠEGA, Saša, SOKOLOVA, Larysa, TALAB, Radomir, TRAYKOV, Latchezar, TURČANI, 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.