



LITHUANIAN SPORTS UNIVERSITY

STUDY MODULE PROGRAMME (SMP)

Module Code	B	710	B	051	Accredited until	2017	06	30	Renewal date
	Branch of Science		Progr.	Registr. №.					

Entitlement

Internal medicine and geriatric patient physiotherapy

Prerequisites

Anatomy, physiology

Course (module) Learning Outcomes

№.	Learning Outcomes	Teaching / Learning Methods	Assessment Methods
1		Discussion, Exercise classes, Interactive lecture, Literature analysis, Reading list	Mid-term examination
2		Case analysis (Case study), Discussion, Exercise classes, Interactive lecture	Mid-term examination, Reporting for practice work
3		Case analysis (Case study), Discussion, Exercise classes, Interactive lecture, Reading list	Reporting for practice work
4		Case analysis (Case study), Discussion, Exercise classes, Interactive lecture, Literature analysis	Mid-term examination, Reporting for practice work
5		Case analysis (Case study), Discussion, Exercise classes, Interactive lecture, Literature analysis	Mid-term examination, Reporting for practice work
6		Case analysis (Case study), Discussion, Exercise classes, Interactive lecture, Literature analysis	Mid-term examination, Reporting for practice work

Main aim

To provide knowledge about pathological and adaptive changes in human body, internal medicine, examination of patient, interpretation data of examination and planning activity of physiotherapy.

Summary

The main pathological and adaptive changes in human body. Internal medicine, examination of patient, interpretation data of examination and planning activity of physiotherapy.

Level of module

Level of programme		Subject group (under the regulation of the area)
Cycle	Type	
First	Bachelor	Bendrojo universitetinio lavinimo

Group under financial classification

Syllabus

№.	Sections and themes	Responsible lecturer
1.	General pathology, pathological process and outcomes. External and internal cause of diseases. Metabolic disorders: protein, fat, carbohydrates, minerals.	40 doc. dr. Saulė Sipavičienė
2.	Inflammation, the reasons and pathogenesis of inflammation. Thermoregulatory disorders. Fever, its etiology and pathogenesis.	40 doc. dr. Saulė Sipavičienė
3.	Regeneration and metaplasia of tissue. Non-malignant and malignant tumor growth. Atrophy, hypertrophy and hyperplasia of tissue and cells.	40 doc. dr. Saulė Sipavičienė
4.	The body's resistance and reactivity. Immunity. Allergy, its etiology and pathogenesis. Allergic reactions.	40 doc. dr. Saulė Sipavičienė
5.	General and local blood circulatory disorders. Arterial, venous hyperemia, ischemia, thrombosis, heart attack, blood spills.	40 doc. dr. Saulė Sipavičienė
6.	Cardiovascular disorders.	40 doc. dr. Saulė Sipavičienė

№.	Sections and themes	Responsible lecturer
7.	Respiratory disease.	40 doc. dr. Saulė Sipavičienė
8.	Endocrine system diseases.	40 doc. dr. Saulė Sipavičienė
9.	Urological diseases. Hematologic disease.	40 doc. dr. Saulė Sipavičienė
10.	Aging, the changes of body with age. Physical therapy of geriatric patients. Fall of risk prevention.	670 doc. dr. Vilma Juodžbalienė

Evaluation procedure of knowledge and abilities:

References

№.	Title	Edition in Lithuanian Sports University library		In Lithuanian Sports University bookstore	Number of ex. in the methodical cabinet of the depart.
		Pressmark	Number of exemplars		
1.	R. Dubakienė 2011 Klinikinė alergologija VU leidykla			Yes	
2.	V. Usonis 2011 Vakcinų ir skiepėjimas Homo liber			Yes	
3.	E. Stalioraitytė ir kt. Patologinė anatomija. 2001. Kaunas			Yes	
4.	Rose Sgarlat Myers (1995) Saunders Manual of Physical Therapy practice. E.R. Saunders Company. USA. p. 1397			Yes	
5.	Pryor J.A., Prasad S.A. (2008). Physiotherapy for respiratory and Cardiac Problems. Fourth edition. Elsevier. Toronto. P. 632			Yes	
6.	Naudžiūnas ir kt. (2013). Vidaus ligų diagnostikos pagrindai. Vitae Litera. Kaunas p. 298			Yes	

Additional literature

№.	Title
1.	S.J. Mcphee 2010 Pathophysiology of Disease Mc Graw Hill
2.	Kaler et al. The Role of STAT1 for Crosstalk between Fibroblasts and Colon Cancer Cells. Front Oncol. 2014 Apr 30;4:88.
3.	Lettieri Barbato et al. Inhibition of Age-Related Cytokines Production by ATGL: A Mechanism Linked to the Anti-Inflammatory Effect of Resveratrol. Mediators Inflamm. 2014;2014:917698.
4.	Su, Federoff. Immune Responses in Parkinson's Disease: Interplay between Central and Peripheral Immune Systems. Biomed Res Int. 2014;2014:275178.
5.	Huang et al. Necrotizing pneumonia and empyema caused by Neisseria flavescens infection. J Thorac Dis. 2014 May;6(5):553-7.
6.	Akbas et al. Predictors of epicardial adipose tissue in patients with type 2 diabetes mellitus. Diabetol Metab Syndr. 2014 May 9;6:55.
7.	Vural A, Kehrl JH. Autophagy in Macrophages: Impacting Inflammation and Bacterial Infection. Scientifica (Cairo). 2014;2014:825463.
8.	Rocha et al. Histamine: a new immunomodulatory player in the neuron-glia crosstalk. Front Cell Neurosci. 2014 Apr 30;8:120.
9.	Lettieri Barbato et al. Inhibition of Age-Related Cytokines Production by ATGL: A Mechanism Linked to the Anti-Inflammatory Effect of Resveratrol. Mediators Inflamm. 2014;2014:917698.
10.	Marques et al. Sitagliptin prevents inflammation and apoptotic cell death in the kidney of type 2 diabetic animals. Mediators Inflamm. 2014;2014:538737.

№.	Title
11.	Haverman et al. Oral Complications in Hematopoietic Stem Cell Recipients: The Role of Inflammation. Mediators Inflamm. 2014;2014:378281.
12.	Kong et al. Integrating gene expression and protein interaction data for signaling pathway prediction of Alzheimer's disease. Comput Math Methods Med. 2014;2014:340758.
13.	Wang GC, Casolaro V. Immunologic Changes in Frail Older Adults. Transl Med UniSa. 2014 Apr 24;9:1-6.
14.	Westman et al. Increased inflammatory response in cytomegalovirus seropositive patients with Alzheimer's disease. PLoS One. 2014 May 7;9(5):e96779.

Coordinating lecturer

Position	Degree, surname, name	Schedule №.
Associate Professor	Assoc. Prof. Dr. Saulė Sipavičienė	40

Subdivision

Entitlement	Code
a	2006

Study module teaching form №. 1

Semester	Mode of studies	Structure				Total hours	Credits
		Lectures	Pract.	Lab.	Ind. work		
A	S	D	10	16	0	104	5

Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth.
------------	---	---------	---	---------	---	--------	---	--------	---	-------	------

Plan of in-class hours

№. of Themes	Academic hours			№. of Themes	Academic hours		
	Lectures	P	L		Lectures	P	L
				Total:	0	0	0

Schedule of individual work tasks and their influence on final grade

	№. of syllabus	Total hours	Influence on grade, %	Week of presentment of task (*) and reporting (o)																
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17-20
Mid-term examination	1-5	26	25	*					0											
Accounting for practice sessions	1-5	26	25	*						0										
Mid-term examination	6-10	26	25					*			0									
Accounting for practice sessions	6-10	26	25							*								0		
Total:	-	104	100																	

Study module teaching form №. 2

Semester	Mode of studies	Structure				Total hours	Credits
		Lectures	Pract.	Lab.	Ind. work		
A	S	D	10	16	0	104	5

Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth.
------------	---	---------	---	---------	---	--------	---	--------	---	-------	------

Plan of in-class hours

№. of Themes	Academic hours			№. of Themes	Academic hours		
	Lectures	P	L		Lectures	P	L
				Total:	0	0	0

Schedule of individual work tasks and their influence on final grade

[illegible]