



# LITHUANIAN SPORTS UNIVERSITY

## STUDY MODULE PROGRAMME (SMP)

Module Code	B	710	B	051	Accredited until	2020	06	01	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.	Inflammation: causes and pathogenesis. Thermoregulatory disorders. Fever: etiology and pathogenesis.	40 doc. dr. Saulė Sipavičienė
2.	Metabolic disorders: proteins, fats, carbohydrates and minerals.	40 doc. dr. Saulė Sipavičienė
3.	Regeneration and metaplasia of tissue. Non-malignant and malignant tumor growth.	40 doc. dr. Saulė Sipavičienė
4.	Atrophy, hypertrophy and hyperplasia of tissue and cells.	40 doc. dr. Saulė Sipavičienė
5.	General and local blood circulatory disorders.	40 doc. dr. Saulė Sipavičienė
6.	Body resistance and reactivity. Immunity. Allergy: etiology and pathogenesis. Allergic reactions.	40 doc. dr. Saulė Sipavičienė
7.	Cardio and vascular diseases.	40 doc. dr. Saulė

№.	Sections and themes	Responsible lecturer
		Sipavičienė
8.	Digestive organs diseases.	40 doc. dr. Saulė Sipavičienė
9.	Respiratory system diseases.	40 doc. dr. Saulė Sipavičienė
10.	Endocrine system diseases.	670 doc. dr. Vilma Juodžbalienė
11.	Hematologic diseases.	40 doc. dr. Saulė Sipavičienė
12.	Urological diseases.	40 doc. dr. Saulė Sipavičienė
13.	Aging: changes of body. Physical therapy of geriatric patients. Prevention of fall risk.	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.	Vitamin D in Autoimmunity: Molecular Mechanisms and Therapeutic Potential. Dankers et al. Front Immunol. 2017 Jan 20;7:697.			Yes	
2.	Post-mortem study of the association between cardiac iron and fibrosis in transfusion dependent anaemia. Kirk et al. J Cardiovasc Magn Reson. 2017 Mar 27;19(1):36			Yes	
3.	Effect of Diabetes Treatment-Related Attributes on Costs to Type 2 Diabetes Patients in a Real-World Population. Meng et al. J Manag Care Spec Pharm. 2017 Apr;23(4):446-452.			Yes	
4.	The Influence of the Microbiome on Early-Life Severe Viral Lower Respiratory Infections and Asthma— Food for Thought? Lynch et al. Front Immunol. 2017 Feb 16;8:156.			Yes	
5.	Micro-computed tomography and mechanical evaluation of trabecular bone structure in osteopenic and osteoporotic fractures. Ozan et al. J Orthop Surg (Hong Kong). 2017 Jan;25(1):23			Yes	
6.	Effects of Melatonin on Liver Injuries and Diseases. Zhang et al. Int J Mol Sci. 2017 Mar 23;18(4).			Yes	
7.	Significance of clinical and morphological prognostic risk factors in IgA nephropathy: follow-up study of comparison patient groups with and without renoprotection. Riispere et al. BMC Nephrol. 2017 Mar 14;18(1):89.			Yes	
8.	Hepatic mitochondrial dysfunction is a feature of Glycogen Storage Disease Type Ia (GSDIa). Farah et al. Sci Rep. 2017 Mar 20;7:44408.			Yes	
9.	Cardiovascular risk is similar in patients with glomerulonephritis compared to other types of chronic kidney disease: a matched cohort study. Hutton et al. BMC Nephrol. 2017 Mar 20;18(1):95.			Yes	

№.	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		
10.	Lower Extremity Peripheral Artery Disease and Quality of Life Among Older Individuals in the Community. Wu et al. J Am Heart Assoc. 2017 Jan 20;6(1).			Yes	
11.	Females Are Protected From Iron-Overload Cardiomyopathy Independent of Iron Metabolism: Key Role of Oxidative Stress. Das et al. J Am Heart Assoc. 2017 Jan 23;6(1).			Yes	
12.	Hypertension Severity Is Associated With Impaired Cognitive Performance. Muela et al. J Am Heart Assoc. 2017 Jan 11;6(1).			Yes	
13.	Relations Between Aortic Stiffness and Left Ventricular Mechanical Function in the Community. Bell et al. J Am Heart Assoc. 2017 Jan 9;6(1).			Yes	
14.	Down-regulation of hsa-miR-148b inhibits vascular smooth muscle cells proliferation and migration by directly targeting HSP90 in atherosclerosis. Zhang et al. Am J Transl Res. 2017 Feb 15;9(2):629-637.			Yes	
15.	Different impairment of immune and inflammation functions in short and long-term after ischemic stroke. Wen- Xing et al. Am J Transl Res 2017;9(2):736-745.			Yes	

#### Additional literature

№.	Title
1.	Italian Registry of Congenital Bleeding Disorders. Giampaolo et al. J Clin Med. 2017 Mar 19;6(3).
2.	A Case of Hemophilia A Presenting in a Neonate and a Review of the Literature. Kisseih et al. Glob Pediatr Health. 2017 Feb 20;4:.
3.	Critical Roles of Kupffer Cells in the Pathogenesis of Alcoholic Liver Disease: From Basic Science to Clinical Trials. Zeng et al. Front Immunol. 2016 Nov 29;7:538.
4.	Acceleration of bone regeneration by activating Wnt/ $\beta$ -catenin signalling pathway via lithium released from lithium chloride/ calcium phosphate cement in osteoporosis. Li et al. Sci Rep. 2017 Mar 24;7:45204.
5.	Lifetime Exposure to a Constant Environment Amplifies the Impact of a Fructose-Rich Diet on Glucose Homeostasis during Pregnancy. Song et al. Nutrients. 2017 Mar 25;9(4).

#### 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
			Theory	Seminars	Lab Works	Ind. work		
A	S	D	13	13	0	104	130	5

#### Languages of instruction:

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth.
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№. of Themes	Academic hours			№. of Themes	Academic hours		
	Theory	Seminars	Lab Works		Theory	Seminars	Lab Works
1.	1	0	0	8.	1	2	0
2.	1	0	0	9.	1	2	0
3.	1	1	0	10.	1	1	0
4.	1	0	0	11.	1	1	0
5.	1	1	0	12.	1	1	0
6.	1	0	0	13.	1	2	0
7.	1	2	0				
				Total:	13	13	0

[illegible]

Semester		Mode of studies	Structure				Total hours	Credits
			Theory	Seminars	Lab Works	Ind. work		
A	S	D	10	16	0	104	130	5

Lithuanian	L	English	E	Russian	R	French	F	German	G	Other	Oth.
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№. of Themes	Academic hours			№. of Themes	Academic hours		
	Theory	Seminars	Lab Works		Theory	Seminars	Lab Works
				Total:	0	0	0

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