



INTERNATIONAL E-CONFERENCE CONTEMPORARY PHARMACY: ISSUES, CHALLENGES AND EXPECTATIONS

23rd OF OCTOBER 2020, KAUNAS

ABSTRACT BOOK

2020 autumn

October 23rd, 2020

Kaunas, Lithuania

The international conference “CONTEMPORARY PHARMACY: ISSUES, CHALLENGES AND EXPECTATION. 2020 AUTUMN” is organized by Lithuanian University of Health Sciences, Faculty of Pharmacy, Department of Drug Technology and Social Pharmacy.

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CONTENT

PROGRAMS	4
PLENARY SECTION	4
SCIENTIFIC SECTION	5
HISTORY OF PHARMACY SECTION	6
ABSTRACTS	7
STUDENTS SECTION	8
PHD STUDENTS SECTION	34
SCIENTISTS SECTION	48
HISTORY OF PHARMACY SECTION	92

PROGRAMS

PLENARY SECTION

Mokslinė praktinė konferencija „Farmacija šiandien. Ruduo 2020.“

Data: 2020 m. spalio 5 d – gruodžio 2 d.

Vieta: nuotolinė konferencija*

Registracija į konferenciją čia – REGISTRACIJA

išankstinė registracija galima iki spalio 2 d.

* Prisijungti nuotoliniam konferencijos stebėjimui galima adresu (prisijungimo kodu) atsiųstu į asmeninį elektroninį pašta. Dalyvavimas (prisijungimas stebėjimui) galimas iki gruodžio 2 d.

Trukmė: 6 ak. val.

Paskirtis: farmacijos specialistų, visų specialybių gydytojų ir slaugytojų profesinės kvalifikacijos tobulinimui.**

Informacija pasiteiravimui: 8-37328303, fps@lsmuni.lt

Elektroninio pažymėjimo išdavimui būtina susikurti paskyrą LSMU podiplominių studijų sistemoje <https://medas.lsmu.lt/user/register>

PROGRAMA

Laikas	Trukmė min.	Pranešimo pavadinimas	Lektorius
14.00-14.45	45	Streso įtaka ir valdymo galimybės visuomenės vaistininko darbe.	Doc. dr. Jurgita Daukšienė, LSMU MA FF Vaistų technologijos ir socialinės farmacijos katedra
14.45-15.45	60	Darbo santykių teisinis reglamentavimas.	Asist. Ugnė Genienė, LSMU MA FF Vaistų technologijos ir socialinės farmacijos katedra
15.45-16.30	45	Medicininiai grybai – imuninės sistemos sergėtojai.	Prof. dr. Nijolė Savickienė, LSMU MA FF Farmakognozijos katedra
16.30-17.15	45	Stresas ir virškinamojo trakto susirgimai. Bioreguliacinės terapijos galimybės.	Dr. Virginija Gudavičienė, Homeopatijos ir homotoksikologijos asociacija
17.15-18.00	45	Gyvensenos ir fitocheminių medžiagų poveikis kancerogenezei.	Prof. dr. Virginijus Šapoka, VU MF Vidaus ligų, šeimos medicinos ir onkologijos klinika
17.45-18.15	30	Ferodeficitinės anemijos etiologija ir gydymas.	Doc. dr. Rolandas Gerbutavičius, LSMU MA MF Onkologijos institutas, Onkologijos ir hematologijos klinika

Iš viso: 270 min. Užskaitoma trukmė 6 ak. val.

SCIENTIFIC SECTION

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Timetable

9.30-9.40	Welcome Speeches Prof. Dr. Jurga Bernatoniene Head of Drug Technology and Social Pharmacy, Lithuanian University of Health Sciences Assoc. Prof. Dr. Giedrė Kasparavičienė conference coordinator
9.45-11:50	Students Section Moderators: Gabrielė Vilkickytė and Jurga Andrėja Kazlauskaitė
12:00-12:35	PhD Students Section Moderators: Lect. Dr. Gabrielė Balčiūnaitė-Murzienė and Lect. Dr. Agnė Mazurkevičiūtė
12:45-14:30	Scientist Section Moderators: Prof. Dr. Lina Raudonė and Assoc. Prof. Dr. Giedrė Kasparavičienė
	Closing remarks

The list of rewards will be announced in the Teams class environment and e-mail. Conference certificates will be sent personally by e-mail.

Place: Microsoft Team virtual meeting room

HISTORY OF PHARMACY SECTION

Dedicated to the first pharmaceutical periodical journal in Lithuania: *Pamiętnik Farmaceutyczny Wileński (Notes of Vilnius Pharmacy)*

Moderators: Ramūnas Kondratas, Vilma Gudienė

10:00–10:10 Welcome speeches

Prof. Ramunė Morkūnienė, Dean of the Faculty of Pharmacy, Lithuanian University of Health Sciences

Prof. Dušanka Krajnovič (University of Belgrade, Serbia) Secretary – General of the International Society for the History of Pharmacy

10:10–10:25 Algirdas Utkus, Dalia Triponienė, Indrė Trečiokienė, Lina Zabulienė (Vilnius University, Vilnius Medical Society) - Vilnius Medical Society and Pharmacy Science: History Continues

10:25–10:40 Vilma Gudienė, Ramūnas Kondratas (Lithuanian University of Health Sciences, Museum of the History of Lithuanian Medicine and Pharmacy, Lithuania) - The first pharmaceutical periodical journal in Lithuania: *Pamiętnik Farmaceutyczny Wileński (Notes of Vilnius Pharmacy)*

10:40–10:55 Ona Ragažinskienė (Vytautas Magnus University, Lithuania) - Pharmacist and editor of the periodical journal *Pamiętnik Farmaceutyczny Wileński (Notes of Vilnius Pharmacy)* prof. Johannes Friedrich Wolfgang (1776–1859)

10:55–11:10 Prof. Axel Helmstädter (Goethe University, University of Frankfurt, Germany) - Pharmaceutical publishing in Germany during the 18th – 20th centuries

11:10–11:25 Arnaud Parent (Mykolas Romeris University, Lithuania) - Chemistry to promote pharmaceuticals, or pharmaceuticals to promote chemistry? Fourcroy and the *Journal of the Paris Society of Pharmacists* (1796-1799)

11:10–11:25 Mary Schaeffer Conroy (University of Colorado, Denver, USA) - The Russian-language pharmaceutical press, 1867-1916

11:25–11:40 Ain Raal (University of Tartu, Estonia) - Pharmaceutical periodical journals in Estonia

11:40–11:55 Kaspars Antonovičs, Juris Salaks (Rīga Stradiņš University, Institute of the History of Medicine) - Pharmaceutical press in Latvia

11:55–12:10 Halil Tekiner (Erciyes University, Turkey) - A historical glance at pharmaceutical caricatures in the Turkish press

12:10–12:25 Viktorija Šimkutė (Lithuanian University of Health Sciences, Lithuania) - The prevention of infectious diseases as presented in the military periodicals *Kariškių žodis* (Word of Soldiers) and *Karys* (Soldier), 1919-1923

12:25–12:40 Angelė Rudžianskaitė, Vilma Gudienė (Lithuanian University of Health Sciences, Museum of the History of Lithuanian Medicine and Pharmacy, Lithuania) - Advertisements in the Lithuanian pharmaceutical journals, 1923–1940.

Closing of the section

Pre-clinical study of the effect of oligopeptides-homologues of the ACTH₁₅₋₁₈ fragment on the adrenal glands histostructure in rats on the model of acute hypothermia

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Introduction: Disturbances in the peptidergic system functioning under the influence of stress factors is aiming to find substances that can eliminate disintegration in this component of pathogenesis. The study of oligopeptides-homologues of the ACTH₁₅₋₁₈ fragment is a promising direction. Our previous studies established their effect on behavioral responses, anxiety, exercise tolerance and carbohydrate metabolism in rats under acute hypothermia [1, 2]. **The aim** of the current study is to evaluate the oligopeptides influence on the adrenal glands histostructure in rats on the model of acute hypothermia.

Materials and methods: The model of acute hypothermia (animals were placed in a freezer at -18°C for 2 hours) [3] was used to study the effect of oligopeptides-homologues of the ACTH₁₅₋₁₈ fragment (Lys-Lys-Arg-Arg) (laboratory ciphers KK-1 and KK-5) [4] on the adrenal glands in male rats. Oligopeptides and the reference medicine Semax were administered intranasally (solution) at a dose of 20 mg/kg 30 minutes before and after hypothermia. Sections of the adrenal glands tissue were stained with haematoxylin-eosin. Adrenal cortex zones width (zona glomeruloza, zona fasciculata, zona reticularis, cells and nuclei area (μm^2), adrenocorticocytes of zona fasciculata) was measured using the Toupcam Granum software.

Results: Hypothermia caused adrenal cortex hypertrophy, which was characterized by an increase in the area of adrenocorticocytes in the zona fasciculata and their nuclei which is accompanied with lipid depletion. This indicated a functional tension associated with the stimulation of glucocorticoid hormone production, capillaries expansion and plethora. Oligopeptides KK-1 and KK-2 prevented structural changes in the adrenal cortex, stabilized the activity of glucocortic-producing cells, maintained lipid saturation. For the severity of the stress-protective effect, the KK-5 oligopeptide exceeded the effect of the KK-1 oligopeptide, and both test substances exceeded Semax.

Conclusions: Keeping reserve capabilities, oligopeptides KK-1 and KK-5 increase the resistance of the adrenal cortex to acute cold stress.

References

1. Kudina O.V., Shtrygol' S.Yu., Kolobov A.A. Preclinical investigation of stress-protective properties of oligopeptides-homologues of the ACTH₁₅₋₁₈ fragment on the model of acute cold stress. Pharmacology and drug toxicology. 2018;2:41–48.(In Ukr.). <http://dSPACE.nuph.edu.ua/handle/123456789/17367>
2. Kudina O.V., Shtrygol' S.Yu., Kolobov A.A. Effect of oligopeptides-homologues of the ACTH₁₅₋₁₈ fragment on parameters of carbohydrate metabolism on in terms of acute cold stress. Vestnik farmatsii. 2019;1:64–70. (In Russ.). <http://elib.vsmu.by/handle/123/20846>
3. Bondarjev Je.V. Holodova travma : doklinichne vyvchennja likars'kyh preparativ z frygoprotektornymy vlastyvoztjamy (metodychni rekomendacii'). Kharkiv; 2018. 36 p.(In Ukr.).
4. Kovalitskaya Yu.A., Sadovnikov V.B., Zolotarev Yu.A., Navolotskaya Yu.A. Stressprotektornaya aktivnost' sinteticheskogo peptida CH₃CO-Lys-Lys-Arg-Arg-NH₂ (protektina). Bioorganicheskaya khimiya. 2009;4:493–500.(In Russ.).