International symposium at Faculty of medical sciences

CURRENT ACHIEVEMENTS AND FUTURE PERSPECTIVES IN MEDICAL AND BIOMEDICAL RESEARCH

STIP, 24 NOVEMBER 2015
MULTIMEDIA CENTRE – UGD, STIP

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INTERNATIONAL SYMPOSIUM AT FACULTY OF MEDICAL SCIENCES
“Current achievements and future perspectives in medical and biomedical research”

SCIENTIFIC PROGRAM
November 24, 2015 - Stip

8:30 – 9:00
Registration

9:00 – 9:15
Rector / Vice rector/Dean

SESSION 1

Chair: Prof. Emilija Janevik Ivanovska
Co-chair: Ass. Prof. Elena Drakalska

9:15 – 9:35
Ass. Marija Darkovska Serafimovska
Macedonian agency of drug and medical
devices, Director
University Goce Delcev Stip
Republic of Macedonia

9:35 – 9:55
Assoc. Prof. Zorica Arsovksa Sarafinovska
Institute of Public Health of the
Republic of Macedonia, Skopje,
University Goce Delcev Stip
Republic of Macedonia

9:55 – 10:15
Prof. Biljana Gjorgjeska
University Goce Delcev Stip
Republic of Macedonia

10:15 – 10:35
Assoc. Prof. Bistra Angelovska
University Goce Delcev Stip
President of Pharmaceutical Chamber
of Macedonia. Republic of Macedonia

10:40 – 11:10
Coffee break

Poster presentation

Chair: Prof. Milka Zdravkovska
Co-chair: Ass. Prof. Darinka Gjorgieva Ackova

10:10 – 11:50
Prof. Neven Zarkovic
Rudjer Boskovic Institute, Croatia

11:50 – 12:10
Assoc. Prof. Tatjana Ruskovska
University Goce Delcev Stip Republic of Macedonia

12:10 – 12:30
Prof. Rubin Gulaboski
University Goce Delcev Stip Republic of Macedonia

12:30 – 12:50
Assoc. Prof. Darko Bosnakovski
University Goce Delcev Stip
Republic of Macedonia

12:50 – 14:00
Coffee break

Poster presentation
Chair: Assoc. Prof. Cena Dimova  
Co-chair: Ass. Prof. Nevenka Velickova

14:00 – 14:40  
Prof. Lia Rimondini  
Università del Piemonte Orientale,  
Novara, Italy  
Counteracting microbial biofilm formation onto dental materials

14:40 – 15:00  
Prof. Elizabeta Zisovska  
Agency for Quality and Accreditation of Healthcare Institutions, Skopje, Republic of Macedonia  
The endless potential of the umbilical cord blood for investigation, research and treatment

15:00 – 15:20  
Ass. Misko Milev  
University Goce Delcev Stip  
Republic of Macedonia  
The cytokinesis-blocked micronucleus assay: Good choice for detection and evaluation of genotoxicity in human cells

15:20 – 15:40  
Prof. Lence Miloseva  
University Goce Delcev Stip  
Republic of Macedonia  
Multiple predictive model for clinical and subclinical depression in adolescence

15:40 – 16:00  
Coffee break  
Poster presentation

SESSION 4

Chair: Assoc. Prof. Darko Bosnakovski  
Co-chair: Ass. Prof. Katarina Smilkov

16:00 – 16:40  
Prof. Adriano Duatti  
University of Ferrara, Ferrara, Italy  
Molecular imaging and radionuclide therapy of prostate cancer

16:40 – 17:00  
Assoc. Prof. Vaso Taleski  
University Goce Delcev Stip  
Republic of Macedonia  
Where Nanotechnology and Nanomedicine meet – Applications and Potential Risks

17:00 – 17:20  
Dr. Aleksandar Cvetkovski  
University Goce Delcev Stip  
Republic of Macedonia  
The role of molecular co-crystals in drug development

17:20 – 17:40  
Prof. Emilija Janevik Ivanovska  
University Goce Delcev Stip  
Republic of Macedonia  
Drug development based on radiolabeled antibodies

17:40 – 18:00  
Closing remarks
The organizers would like to acknowledge the support given from the University Goce Delcev- Stip and the Pharmaceutical chamber of Macedonia. Gratitude is expressed to Alkaloid AD Skopje and Fitofarm for the financial support.
1. Step forward of Macedonian Agency for medicines and medical devices. Establishment and strategic plan for development
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   Author: Zorica Arsovska Sarafinovska

3. Use of disinfectants and antiseptics in selected health institutions in Republic of Macedonia
   Author: Biljana Gjorgjeska

4. Code of Ethics for Pharmacists – Pharmaceutical Chamber of Macedonia
   Author: Bistra Angelovska

5. 4-Hydroxynonenal – major bioactive marker of lipid peroxidation
   Authors: Neven Zarkovic, Kamelija Zarkovic

6. Nicotinamide adenine dinucleotide biosynthesis and consumption in dysfunctional white adipocytes
   Authors: Prof. Tatjana Ruskovska, David Bernlohr

7. New insights into the chemistry and functions of Coenzyme Q
   Authors: Rubin Gulaboski, Valentin Mirceski, Ivan Bogeski, Sasa Mitrev, Kokoskarova Pavlinka, Velo Markovski, Reinhard Kappl, Markus Hoth

8. Genetically modified systems to study muscular dystrophies
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9. Counteracting microbial biofilm formation onto dental material
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14. Where Nanotechnology and Nanomedicine meet – Applications and Potential Risks
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3. Case Report: Oligoasthenoteratozoospermia, treatment with acupuncture  
   
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28. Alveolar socket preservation and shaping using temporary prosthetic construction – cases presentation
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INTERNATIONAL SYMPOSIUM AT FACULTY OF MEDICAL SCIENCES

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November 24, 2015 – Stip
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Multiple predictive model for clinical and subclinical depression in adolescence

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Abstract

Introduction: Identification of potential groups of differences and similarities between clinical and subclinical depression in adolescence, compared to the risk factors of cognitive vulnerability and psychosocial risk factors, contributes to shedding light on the etiological picture of clinical and subclinical depression.

Objectives: The present study investigated whether we can build multiple predictive model for clinical and subclinical depression in adolescence, based on risk factors of cognitive vulnerability and psychosocial risk factors.

Material and Methods: Multiple predictive model for group membership in three groups: clinical, subclinical and control group has been built by using canonical discriminant analysis. The final survey sample consists of 412 adolescents (61.7% female and 38.3% male) aged 13-17 years. The data were collected from Psychiatric words and Centers for Mental Health for children and adolescents from three Clinics in Macedonia (for clinical sample) and schools (for subclinical and control sample) during the last four years, including one year of pilot study for psychological instruments. Cognitive vulnerability factors for depression (dysfunctional attitudes, negative inferential style, and ruminative response style) and psychosocial risk factors (negative life events and perceived social support) were measured by a set of psychological instruments.

Results: The discriminant analysis showed that it was possible to statistically significantly distinguish groups on the basis of the mentioned predictors and it allocated two discriminant functions. The overall test of the first discriminant function was significant (p < .001) indicating that scores discriminated between the three groups accounting for 99.3% of the total variance of depression. The first discriminant function consists of all listed predictors, ruminative response style, dysfunctional attitudes, negative inferential style, and negative life events in a positive direction and perceived social support in a negative direction, and in this function the highest scores are for the clinical and the lowest for the control subjects. Subclinical respondents were in-between.

The overall test of the second discriminant function was significant (p < .001) indicating that scores discriminated between the three groups accounting for 0.7% of the total variance of depression. Only ruminative response style makes the second discriminant function and the subclinical sample has the highest scores, while the clinical sample has the lowest. The control group is in-between.

Conclusion: We have confirmed our expectations that we can build multi-predictive model of clinical and subclinical depression in adolescence. The clinical, subclinical group and control group differ significantly with respect to the factors of cognitive vulnerability and psychosocial risk factors. We believe that this research has scientific and applicative value and that it has not only theoretical and empirical contributions, but has contributions to clinical practice as well.

Keywords: adolescence, clinical depression, predictive model, risk factors, subclinical depression.