GOCE DELCEV UNIVERSITY, STIP FACULTY OF MEDICAL SCIENCES

First International Students' Symposium of Faculty of Medical Sciences

CELEBRATING ACHIEVEMENTS IN MEDICINE, PROMOTING HEALTH AND SHARING KNOWLEDGE

STIP, 20 APRIL 2016

MULTIMEDIA CENTRE – GOCE DELCEV UNIVERSITY, STIP

	Welcome note Prof. Blazo Boev Rector of the University		
09:00 - 09:10			
	The road to science - for students		
09:10 - 09:40		Prof. Rubin Gulaboski	
03.10		Dean of the Faculty of Medical Sciences	
	First session		
Time	Title	Presenter	
09:40 - 10:10	Studying the cost of treating diabetes in Bulgaria	Prof. Doneva Miglena	
10:10 – 10:20	Features and benefits of ²²³ Ra radiopharmaceuticals for treatment of cancer	Andonela Janeva Student	
10:20 – 10:30	Immunomodulatory effects of probiotics and their role in allergy	Spase Stojanov Student	
10:30 – 10:40	Future therapies for neurodegenerative diseases using molecular tool for editing genes – CRISPR CAS 9	Ana Nikolova Student	
10:40 – 10:50	Importance of quantum mechanical tunneling phenomena in life sciences	Petar Davcev Student	
	10:50 – 11:30 Coffee breal	k	
	Second session		
11:30 – 12:00	Regeneration of salivary glands – from in vitro to in vivo models	Prof. Mihnea I. Nicolescu	
12:00 – 12:10	Oral health status among dental medicine students in the two final years of studying	Natasa Arsova Student	
12:10 – 12:20	Effect of the mitotic inactivation on the properties and biologic activity of mesenchymal human stem cells	Aleksandra Jakovleva Student	

12:20 – 12:30	Estimation of proangiogenic properties of artificial microvesicles from SHSY5Y cells	Kristina Jakovleva Student
12:30 – 12:40	Master plan for treatment – Challenge for the future of dentistry	Stefan Kitanovski Student
	12:40 – 14:30 Lunch time	
	Third session	
14:30 – 15:00	Community-acquired pneumonia	Dr. Rich Wunderink
15:00 – 15:30	Posterior tibial tendonitis and Hip fractures	Dr. David Burandt
15:30 – 15:40	Angiographic and procedural predictors of periprocedural complications	Strahil Todorov Student
15:40 – 15:50	Nonspecific low back pain treated with Kinesiotaping	Kristijan Nikolov Student
15:50 – 16:00	Abstinent syndrome and deviant behaviors investigated in opiate dependent individuals	Martin Angjelov Student
16:00 – 16:10	Acute coronary syndrome	Matej Otjanski Student
	16:10 – 16:20 Closing ceremo	ony
	16:20 Awarding of certificate	es

EDITOR IN CHIEF

Assoc. Prof. Tatjana Ruskovska, Goce Delcev University, Stip

SCIENTIFIC BOARD

Prof. Rubin Gulaboski, Goce Delcev University, Stip

Assoc. Prof. Darko Bosnakovski, Goce Delcev University, Stip

Prof. Milka Zdravkovska, Goce Delcev University, Stip

Prof. Emilija Janevik Ivanovska, Goce Delcev University, Stip

Ass. Prof. Kiro Papakoca, Goce Delcev University, Stip

Prof. Biljana Gjorgjeska, Goce Delcev University, Stip

Assoc. Prof. Bistra Angelovska, Goce Delcev University, Stip

Assoc. Prof. Cena Dimova, Goce Delcev University, Stip

Assoc. Prof. Ivona Kovacevska, Goce Delcev University, Stip

Assoc. Prof. Vaso Taleski, Goce Delcev University, Stip

Ass. Prof. Darinka Gjorgieva, Ackova Goce Delcev University, Stip

Ass. Prof. Katarina Smilkov, Goce Delcev University, Stip

Ass. Prof. Nevenka Velickova, Goce Delcev University, Stip

Ass. Prof. Velo Markovski, Goce Delcev University, Stip

Ass. Viktorija Maksimova, Goce Delcev University, Stip

Ass. Marija Sterjova, Goce Delcev University, Stip

Ass. Misko Milev, Goce Delcev University, Stip

Ass. Marija Karakolevska Ilova, Goce Delcev University, Stip Ass. Elena Joveva, Goce Delcev University, Stip

Tech. Kiril Mitevski, Goce Delcev University, Stip

Prof. Doneva Miglena, Faculty of Pharmacy, Medical University, Department of Organization and Economics of Pharmacy, Sofia, Bulgaria

Ass. Prof. Mihnea I. Nicolescu, "Carol Davila" University of Medicine and Pharmacy, Cytology and Histology Department, Bucharest, Romania Research assistant, "Victor Babeş" National Institute of Pathology, Radiobiology Laboratory, Bucharest

Dr. Rich Wunderink, Northwestern Memorial Hospital, Chicago, US

Dr. David Burandt, Department of Orthopaedics in Lexington Clinic, Lexington, Kentucky

Student Andonela Janeva, Goce Delcev University, Stip

Student Natasha Arsova, Goce Delcev University, Stip

Student Ana Marija Taseva, Goce Delcev University, Stip

ORGANISATION BOARD

Aleksandra Toneva

Ana Marija Taseva

Andonela Janeva

Marija Koteva

Mario Gjufteski

Mila Majhoseva

Milkica Janeva

Mihail Aleksandrov

Natasha Arsova

Spase Stojanov

Tanja Janeva

	unu aut air ean fuana
The organizers would like to acknowledge the su th	e Goce Delcev University, Stip.
Gratitude is expressed to Polimedica and Pharm	
	financial support.

INTERNATIONAL STUDENTS' SYMPOSIUM OF FACULTY OF MEDICAL SCIENCES "Celebrating achievements in medicine, promoting health and sharing knowledge"

APRIL 20, 2016 - STIP ORAL PRESENTATIONS

 The road to science – for students

Rubin Gulaboski

 Studying the cost of treating diabetes in Bulgaria
 Miglena Doneva

 Features and benefits of ²²³Ra radiopharmaceuticals for treatment of cancer
 Andonela Janeva

 Immunomodulatory effects of probiotics and their role in allergy

Spase Stojanov

- Future therapies for neurodegenerative diseases using molecular tool for editing genes – CRISPR CAS 9 Ana Nikolova
- Importance of quantum mechanical tunneling phenomena in life sciences Petar Davcev
- 7. Regeneration of salivary glands– from in vitro to in vivo modelsMihnea I. Nicolescu
- 8. Oral health status among dental medicine students in the two final years of studying

 Natasa Arsova
- 9. Effect of the mitotic inactivation on the properties and biologic

activity of mesenchymal human stem cells

Aleksandra Jakovleva

10. Estimation of proangiogenic properties of artificial microvesicles from SHSY5Y cells

Kristina Jakovleva

11. Master plan for treatment – Challenge for the future of dentistry

Stefan Kitanovski

- 12. Community-acquired pneumonia
 Rich Wunderink
- 13. Posterior tibial tendonitis and Hip fractures

David Burandt

14. Angiographic and procedural predictors of periprocedural complications

Strahil Todorov

15. Nonspecific low back pain treated with Kinesiotapeing Kristijan Nikolov

16. Abstinent syndrome and deviant behaviors investigated in opiate dependent individuals
Martin Angelov

17. Acute coronary syndrome Matej Otjanski

INTERNATIONAL STUDENTS' SYMPOSIUM OF FACULTY OF MEDICAL SCIENCES

"Celebrating achievements in medicine, promoting health and sharing knowledge"

APRIL 20, 2016 - STIP

POSTER PRESENTATIONS

1. "Incidence of large intestinal carcinoma in patients from Clinical Hospital - Stip for a period of 2010-2015"

Author: Nikola Stoiljkovikj; Co-authors: Gjorgi Shumanov and Slobodan

Rogac

2. "Oral cavity changes after radiotherapy"

Author: Nikolina Kochovska; Coauthor: Darko Kochovski

3. "Doppler ultrasound: noninvasive way of imaging the blood flow"

Author: Aleksandra Ristova – Stojanova; Co-author: Oliver Ristov

4. "Comparison of dissolution test for metronidazole tablets in International and American Pharmacopoeia"

Author: Violeta Koneva; Co-authors: Biljana Gjorgjeska and Sofija Petkovska

5. "Gestational diabetes, experience of the Clinic for Gynecology in Skopje in the period 2013-2015"

Author: Vesna Mladenovska; Coauthors: Biljana Gjorgjeska and Sofija Petkovska

6. "Acupuncture treatment for lumbar disc herniation"

Author: Martin Karovski; Co-authors: Jihe Zhu and Blagica Arsovska

7. "Acupuncture points in treatment of adolescent depression"

Author: Angela Angelovska; Coauthors: Jihe Zhu and Blagica Arsovska

8. "High performance polymers in dental laboratory"

Author: Daniela Mickovska; Coauthors: Ivona Kovacevska, Natasha Denkova and Pavle Apostoloski

9. "Passive suicidal ideation as a risk factor for suicide among cancer patients"

Author: Dijana Miloseva; Co-authors: Lence Miloseva and Dajana Bopkovska

10. "Approximal margin adaptation on class II – posterior interproximal cavity restored with open and closed sandwich technique"

Author: Jane Nacevski; Co-authors: Hristijan Dimoski, Stefan Kitanovski, Ivona Kovacevska, Natasha Denkova and Kiril Mitevski

11. "Anesthetic buffering: new advances for use in dentistry"

Author: Ivana Bojchovska; Co-authors: Darko Kochovski, Sandra Atanasova and Mihajlo Petrovski

12. "Development of an electrochemical method for estimation of the antioxidative capacity of syringic and ferulic acid with ABTS as a redox mediator"

Author: Mihail Aleksandrov: Co-

authors: Viktorija Maksimova and Rubin Gulaboski

13. "Varicella in the region of Prilep"

Author: Meri Stevanoska; Co-authors: Vera Dzateva, Eva Markovska and Velo Markovski

14. "Treatment of insomnia syndrome with Chinese medicine and reflex therapy"

Author: Todorche Monev; Co-author: Jihe Zhu

15. "Mandibular supraprosthesing retained by dental implants - case report"

Author: Ljupka Lazarova; Co-author: Evgenija Trajkoska

16. "Analgesia during intraoperative and postoperative period"

Author: Marinela Popova; Co-authors: Aleksandra Toneva and Jovanka Stojmenova

17. "Representation of different techniques for determination of the working length in endodontic treatment"

Author: Natasha Denkova; Co-authors: Katerina Zlatanovska, Simon Nadzenski, Dragan Spasov and Mihajlo Petrovski

18. "Types of toothbrushes"

Authors: Marija Dejkoska and Andrej Petrushevski; Co-authors: Sanja Naskova, Cena Dimova, Verica Toneva and Darko Kochovski

19. "Contemporary classification of supernumerary teeth"

Author: Igor Cvetanoski; Co-authors: Marko Petrovski, Sanja Naskova and Cena Dimova

20. "Artificial sweeteners and oral health"

Author: Ognen Cvetanoski; Coauthors: Stefan Ilievski, Sanja Naskova and Cena Dimova

21. "Using of additional supplements for oral hygiene"

Author: Ivana Ristova; Co-authors: Mihajlo Petrovski, Ivana Bojchovska and Darko Kochovski

22. "Anemia as a reason for hospitalization in the region of Kumanovo"

Authors: Stefan Ilievski and Robert Nikolovski; Co-authors: Kristina Denchovska, Eva Markovska, Tomica Anchevski and Velo Markovski

23. "Prevalence of Down syndrome in the city of Bitola"

Author: Menche Petrovska; Co-author: Nevenka Velichkova

24. "Applying ROOTT implant system directly after extraction of teeth"

Author: Sarita Kadrova; Co-authors: Milan Dumitrashkovic, Sanja Naskova and Cena Dimova

25. "Epidemiological characteristics of influenza virus in municipality of Kumanovo"

Authors: Robert Nikolovski and Kristina Denchovska; Co-authors: Eva Markovska and Velo Markovski

26. "Gua Sha in back pain and neck pain"

Author: Ivana Filipovska; Co-authors: Blagica Arsovska and Jihe Zhu



INTERNATIONAL STUDENTS' SYMPOSIUM OF FACULTY OF MEDICAL SCIENCES

"Celebrating achievements in medicine, promoting health and sharing knowledge"

BOOK OF ABSTRACTS

APRIL 20, 2016 - STIP

Contents

ORAL PRESENTATIONS12
The road to science - for students13
Studying the cost of treating diabetes in Bulgaria14
Features and benefits of 223Ra radiopharmaceuticals for treatment of cancer16
Immunomodulatory effects of probiotics and their role in allergy18
Future therapies for neurodegenerative diseases using molecular tool for editing genes – CRISPR CAS 920
Importance of quantum mechanical tunneling phenomena in life sciences22
Regeneration of salivary glands – from <i>in vitro</i> to <i>in vivo</i> models24
Oral health status among dental medicine students in the two final years of studying
Effect of the mitotic inactivation on the properties and biologic activity of mesenchymal human stem cells26
Estimation of proangiogenic properties of artificial microvesicles from SHSY5Y cells
28
Master plan for treatment – Challenge for the future of dentistry
Angiographic and procedural predictors of periprocedural complications31
Nonspecific low back pain treated with Kinesiotaping33
Acute coronary syndrome34
POSTER PRESENTATIONS35
Incidence of large intestinal carcinoma in patients from Clinical Hospital - Stip for a period of 2010-2015
Oral cavity changes after radiotherapy38
Doppler ultrasound: noninvasive way of imaging the blood flow
Comparison of dissolution test for metronidazole tablets in International and
American Pharmacopoeia41
Gestational diabetes, experience of the Clinic for Gynecology in Skopje in the period 2013-201543
Acupuncture treatment for lumbar disc herniation44
Acupuncture points in treatment of adolescent depression
High performance polymers in dental laboratory47
Passive suicidal ideation as a risk factor for suicide among cancer patients
Approximal margin adaptation on class II – posterior interproximal cavity restored with open and closed sandwich technique51
Anesthetic buffering: new advances for use in dentistry53

Development of a electrochemical method for estimation of the antioxidative capacit of syringic and ferulic acid with ABTS as a redox mediator5	•
Varicella in the region of Prilep5	6
Treatment of insomnia syndrome with Chinese medicine and reflex therapy5	8
Mandibular supraprosthesing retained by dental implants - case report5	9
Analgesia during intraoperative and postoperative period6	0
Representation of different techniques for determination of the working length in endodontic treatment6	i1
Types of toothbrushes6	2
Contemporary classification of supernumerary teeth6	3
Artificial sweeteners and oral health6	5
Using of additional supplements for oral hygiene6	6
Anemia as a reason for hospitalization in the region of Kumanovo6	7
Prevalence of Down syndrome in the city of Bitola6	9
Applying ROOTT implant system directly after extraction of teeth7	0
Epidemiological characteristics of Influenza Virus in Municipality of Kumanovo7	′1
Gua Sha treatment for neck and back pain7	'4

Passive suicidal ideation as a risk factor for suicide among cancer patients

Dijana Miloseva¹, Dajana Bopkovska², Lence Miloseva²

¹Ss.Cyril and Methodius University, Skopje

² Faculty of Medical Sciences, Goce Delcev University, Stip

Contact: lence.miloseva@ugd.edu.mk

Introduction: Identification of passive suicidal ideas as a clinical relevant risk factor contributes to shedding light on the etiological picture of clinical depression and suicide phenomena among cancer patients. Unfortunately, in Macedonia we do not have standardized psychological techniques which will assess suicidal ideation during psycho diagnostic procedure.

Objectives: The aim of this study is twofold. The first aim is to investigate whether we can use the Patient Health Questionnaire-9 (PHQ-9), for the first time in Macedonia, translated on Macedonian language (Miloseva, 2014), item 9 in order to screen passive suicidal ideation. The second aim is to describe the nature of "better to be death thoughts or hurting own self in some way" reported with structure clinical interviews carried out in order to further asses passive suicidal thoughts of participants, cancer patients, who hade endorsed item 9 of this scale.

Material and Methods: In the frame of the UGD supported project, the data were collected from Department for maxillofacial surgery, Clinical Hospital, Stip, Macedonia, during the period 2014-2015. The final survey sample consists of 90 patients (64% female and 36% male) aged 19-70 years. Inclusive criteria: patients were diagnosed with cancer in maxillofacial region. We applied: Patient Health Questionnaire-9 (PHQ-9), for the first time in Macedonia, translated on Macedonian language and structured clinical interview. One week after they become familiar with the diagnose they fill up PHQ-9 scale, and after three weeks clinical interviews were carried out. Written informed consent was obtained by all study participants.

Results: First of all we checked the reliability (Cronbach`s alpha) for the PHQ-9 scale translated on Macedonian language and sample. The reliability coefficient was good (alpha > 0.85). We found that patients with diagnosed cancer who endorsed "passive"

suicide ideas item 9" were more likely to have suicidal thoughts which were described latter on during clinical interview. We analyzed thoughts reported by patients in the frame of modified categories of suicidality based on Walker et al. (2011). Of 52 (57.77%) of patients who endorsed item 9 with "yes", the highest percentige was in category with passive suicidal thoughts 32 (61.54%).

Conclusion: We have confirmed our expectations that we can use Macedonian translated version of PHQ-9 scale, item 9 ("Thoughts that you will be better to be dead or of hurting yourself in some way") in combination with clinical structured interview in order to asses passive suicidal ideation. Due to the limitation of this study, more studies are needed in future. There is a need of multidisciplinary work and teams between maxillofacial surgeons, clinical psychologist, psychiatrist and oncologist.

Keywords: passive suicide ideas, depression, risk factors, suicide.