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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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  
*Step forward of Macedonian agency for medicines and medical devices, establishment and strategic plan for development*

9:35 – 9:55  
**Assoc. Prof. Zorica Arsovska Sarafinovska**  
Institute of Public Health of the  
Republic of Macedonia, Skopje,  
University Goce Delcev Stip  
Republic of Macedonia  
*Adherence to Therapy: A Modern Pharmacotherapeutic Approach*

9:55 – 10:15  
**Prof. Biljana Gjorgjeska**  
University Goce Delcev Stip  
Republic of Macedonia  
*Use of disinfectants and antiseptics in selected health institutions in Republic of Macedonia*

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

10:40 – 11:10  
**Coffee break**  
**Poster presentation**

10:10 – 11:50  
**Prof. Neven Zarkovic**  
Rudjer Boskovic Institute, Croatia  
*4-Hydroxynonenal – major bioactive marker of lipid peroxidation*

11:50 – 12:10  
**Assoc. Prof. Tatjana Ruskovska**  
University Goce Delcev Stip Republic of Macedonia  
*Nicotinamide adenine dinucleotide biosynthesis and consumption in dysfunctional white adipocytes*

12:10 – 12:30  
**Prof. Rubin Gulaboski**  
University Goce Delcev Stip Republic of Macedonia  
*New insights into the chemistry and functions of Coenzyme Q*

12:30 – 12:50  
**Assoc. Prof. Darko Bosnakovski**  
University Goce Delcev Stip  
Republic of Macedonia  
*Genetically modified systems to study muscular dystrophies*

12:50 – 14:00  
**Coffee break**  
**Poster presentation**
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker 1</th>
<th>Speaker 2</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00 – 14:40</td>
<td>Prof. Lia Rimondini</td>
<td></td>
<td>Counteracting microbial biofilm formation onto dental materials</td>
</tr>
<tr>
<td></td>
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<tr>
<td>14:40 – 15:00</td>
<td>Prof. Elizabeta Zisovska</td>
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<td>The endless potential of the umbilical cord blood for investigation, research and treatment</td>
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<tr>
<td>15:00 – 15:20</td>
<td>Ass. Misko Milev</td>
<td></td>
<td>Multiple predictive model for clinical and subclinical depression in adolescence</td>
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<tr>
<td>15:20 – 15:40</td>
<td>Prof. Lence Miloseva</td>
<td></td>
<td></td>
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<tr>
<td>15:40 – 16:00</td>
<td>Coffee break</td>
<td></td>
<td>Poster presentation</td>
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<tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:00 – 16:40</td>
<td>Prof. Adriano Duatti</td>
<td></td>
<td>Molecular imaging and radionuclide therapy of prostate cancer</td>
</tr>
<tr>
<td>16:40 – 17:00</td>
<td>Assoc. Prof. Vaso Taleski</td>
<td></td>
<td>Where Nanotechnology and Nanomedicine meet – Applications and Potential Risks</td>
</tr>
<tr>
<td>17:00 – 17:20</td>
<td>Dr. Aleksandar Cvetkovski</td>
<td></td>
<td>The role of molecular cocrystals in drug development</td>
</tr>
<tr>
<td>17:20 – 17:40</td>
<td>Prof. Emilija Janevik Ivanovska</td>
<td></td>
<td>Drug development based on radiolabeled antibodies</td>
</tr>
<tr>
<td>17:40 – 18:00</td>
<td>Closing remarks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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  
   Author: Marija Darkovska- Serafimovska

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   Author: Zorica Arsovskas Sarafinovska

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   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

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   Author: Darko Bosnakovski

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11. The cytokinesis-blocked micronucleus assay: Good choice for detection and evaluation of genotoxicity in human cells  
    Authors: Misko Milev, Velickova N., Petrova B., Gorgieva P., Nedeljkovic B.,

12. Multiple predictive model for clinical and subclinical depression in adolescence  
    Authors: Lence Miloseva, Tatjana Vukosavljevic-Gvozden

13. Molecular Imaging and therapy with radionuclides of prostate cancer  
    Author: Adriano Duatti

14. Where Nanotechnology and Nanomedicine meet – Applications and Potential Risks  
    Authors: Vaso Taleski, Darko Bosnakovski, Milka Zdravkovska, Velo Markoski, Zdenka Stojanovska, Svetlana Jovevska

15. The role of molecular cocrystals in drug development  
    Author: Aleksandar Cvetkovski

16. Drug development based on radiolabeled antibodies  
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INTERNATIONAL SYMPOSIUM AT FACULTY OF MEDICAL SCIENCES
“Current achievements and future perspectives in medical and biomedical research”

November 24, 2015 – Stip
POSTER PRESENTATIONS

1. Correlation between dynamic balance and gait parameters in patients with ischemic stroke in the chronic period
   Authors: Danche Vasileva, Daniela Lubenova, Marija Mihova, Ivan Maznev, Lence Nikolovska, Zhu Jihe;

2. Effect of kinesitherapy on physical activity in patient with Guillain-Barré syndrome
   Authors: Antoaneta Dimitrova, Kristin Petrova Grigorova, Daniela Lubenova, Danche Vasileva, Milena Nikolova;

3. Case Report: Oligoasthenoteratozoospermia, treatment with acupuncture
   Authors: Jihe Zhu, Blagica Arsovska, Dance Vasileva, Andrijana Sterjosvka-Aleksovska, Kristina Kozovska;

4. Treatment of cervical spondylosis with acupuncture
   Authors: Kristina Kozovska, Jihe Zhu, Blagica Arsovska, Andrijana Sterjosvka-Aleksovska;

5. Effect of kinesitherapy on static and dynamic balance in patient after vertebro-basilar system stroke
   Authors: Milena Nikolova, Antoaneta Dimitrova, Dance Vasileva, Daniela Lubenova, Kristin Petrova Grigorova;

6. Malignant pleural effusions in lung cancer: the condition during the disease
   Authors: Marija Karakolevska-Ilova, Elena Simeonovska Joveva, Aleksandar Serafimov, Lidija Petrovska;

7. Systemic fungal infections in hematological malignancies
   Authors: Petar Kuzmanovski, Velo Markoski;

8. Morbidity and mortality of malignant neoplasms in Macedonia
   Authors: Viktorija Vukovikj, Velo Markoski;

9. Cognitive behavioral program in treating insomnia among elderly patients
   Authors: Kneginja Richter, Lence Miloseva, Guenter Niklewski, Anja Piehl;

10. Regulations and legal aspects in management of medical waste
    Authors: Biljana Shikoska, Cena Dimova, Gjorgi Schumanov;

11. Control of the psychiatric disorders in the Republic of Macedonia
    Authors: Leonid Ramov, Velo Markoski;

12. Monitoring of the renal function in Indometacin treated patients with rheumatoid arthritis
    Authors: Drita Yzeiri Havziu, M.Hiljadnikova-Bajro, T. Kadikova Panovska;

13. Incidence of breast cancer in Macedonia
    Authors: Dijana Stojanova, Velo Markoski;

14. HPV virus as a cause of cancer of the cervix in R.Macedonia
    Authors: Stefanija Joveva, Velo Markoski, Vaso Taleski;

15. Analysis of the Pap test results by age groups in the area of Kriva Palanka
    Authors: Robert Nikolovski, Kristina Denchovska, Goran Mladenovski, Velo Markovski;

16. Giant rhinophyma treated by excision and full thickness skin grafting
    Author: Emilija Lozanovska Doneva;

17. Incidence of patients with chronic renal failure in Skopje
    Authors: Simona Kamceva, Velo Markoski;

18. Calculation of effective dose to family members of patients with thyroid diseases
    Authors: Marina Zdravevska Kochovska, Emilija Janjevik Ivanovska, Meri Angeleska, Sasho Nikolovski, Zlatko Filipovski;
19. Contemporary Microbiological Diagnostic Tests for Rapid Identification and Detection of Resistance of Mycobacterium tuberculosis
   **Authors:** Oliver Taleski, Vaso Taleski;

20. Analysis of clinical features and complications in patients with β-thalassemia in the region of Strumica
   **Authors:** Silvana Sinokapovska, Cena Dimova;

21. Lymphoepithelioma: A case report
   **Authors:** Vase Stojcheska, Rade Filipovski, Dobri Stoimenov, Nikica Atanasova, Goran Karaivanov, Ana Doneva, Irena Shulevska, Silvana Kraleva;

22. F-ra Capitullum Radii L.Dex. – A Case report
   **Authors:** Svetlana Jovevska, M.Idrizovikj;

23. Patient with intracranial hemorrhage and arteriovenous malformation detected with transcranial color duplex sonography – case report
   **Authors:** Elena Simeonovska Joveva, Marija Karakolevska-Ilova, Aleksandar Serafimov, Lidija Petrovska, Anita Arsovska;

24. Hereditary supracondylar spur of the humerus: Case report
   **Authors:** Strahil Todorov, Christian Lozanoski, George Zafiroski;

25. Prosthetic rehabilitation in patient with advanced degree of functional disorders (case report)
   **Authors:** Natasa Denkova, Katerina Zlatanovska, Ana Radeska-Panovska, Sanja Nashkova, Ivona Kovacevska;

26. Marginal Implants Bone Loss – a Case Report
   **Authors:** Kiro Papakoca, Ana Radeska-Panovska, Katerina Zlatanovska;

27. Ectodermal Dysplasia, a Case Report: Challenge for Prosthodontic Solution
   **Authors:** Emilija Bajraktarova Valjakova, Bajevska Jagoda, Vesna Korunovska Stevkovska, Biljana Kapushevska, Nikola Gigovski, Aneta Mijoska, Katerina Zlatanovska, Cvetanka Bajraktarova Mishevska;

28. Alveolar socket preservation and shaping using temporary prosthetic construction – cases presentation
   **Authors:** Nikola K. Gigovski, Vesna Korunovska- Stevkoska, Emilia Bajraktarova, Aneta Mijoska, Ana Radeska-Panovska, Ana Gigovska;

29. Porcelain veneers produced by refractory die method
   **Authors:** Katerina Zlatanovska, Julija Zarkova-Atanasova, Ana Radeska, Natasa Denkova, Kiro Papakoca;

30. Correlation of Two Different Local Hemostatic Modalities in Oral Surgery Patients with Oral Anticoagulants
   **Author:** Cena Dimova;

31. Assessment of orthodontic treatment need among school children by using iotn (index of orthodontic treatment need)
   **Authors:** Ana Radeska-Panovska, Kiro Papakoca, Natasa Denkova, Ivona Kovacevska, Katerina Zlatanovska;

32. Oral Hygiene Level Maintenance among Dental Medicine Students
   **Authors:** Darko Kochovski, Verica Toneva, Cena Dimova;

33. Poor oral hygiene and show of caries in 12 year old children
   **Author:** Sanja Naskova;

34. Implant-prosthetic therapy failure in smoker and nonsmoker patients
   **Authors:** Aneta Mijoska, Mirjana Popovska, Biljana Kapusevska, Nikola Gigovski, Vesna Korunovska- Stevkoska, Emilia Bajraktarova, Katerina Zlatanovska;

35. Oral surgery treatment in the patients with combination syndrome
   **Authors:** Vesna Korunovska-Stevkovska, Katerina Zlatanovska, Nikola Gigovski, Žaklina Menceva, Julijana Nikolovska, Emilia Bajraktarova-Valjakova, Aneta Mijoska;

36. Iatrogenic mistakes, cause for a failure at surgical treatment of a chronic periapical processes
   **Authors:** Sarita Kadrova, Cena Dimova;

37. Evaluation of Different Preparation of Artificial Teeth and Acrylate Prosthetic Base
   **Authors:** Pavle Apostoloski, Cena Dimova, Katerina Zlatanovska, Julija Zarkova;
38. Analysis of the dimensional stability of elastomeric silicone impression materials
   Authors: Galaba Veresa, Cena Dimova, Julijana Miloseva;

39. Use of gypsum into working everyday in dental technician
   Authors: Hadis Arslanov, Cena Dimova, Julija Vladikova, Pavle Apostoloski;

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   Authors: David Mwanza Wanjeh, Joel Munene Muchira, Aschalew Alemu Marie, Darko Bosnakovski;

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   Author: Sanja Kostadinovik Velickovska;

53. Development and validation of HPLC method for determination of flavonoids in herbal preparations
   Authors: Tanja Janeva, Zorica Arsova-Sarafinovska;

54. Atomic emission spectrometry with inductively coupled plasma (ICP-AES) analysis of trace elements in Camellia sinensis teas
   Authors: Dragica Doneva, Trajce Stafilov, Zorica Arsova-Sarafinovska, Katerina Starkoska, Maja Shishovska, Katerina Bačeva Andonovska;

55. Determination of trace elements analyzed by atomic emission spectrometry with inductively coupled plasma (ICP-AES) in Matricaria chamomilla L. teas present on macedonian market
   Authors: Dragica Doneva, Trajce Stafilov;

56. Human health risks from heavy metals via consumption of contaminated food
   Authors: Biljana Balabanova, Rubin Gulaboski;
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   Authors: Viktorija Maksimova, Liljana Koleva Gudeva, Blaga Radovanovic, Rubin Gulaboski;

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   Authors: Sofija Petkovska, Danica Zahkova, Biljana Gjorgjeska;

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   Authors: Dijana Atanasova, Bistra Angelovska, Biljana Lazarova;

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   Authors: Rozeta Aceva, Zorica Arsova – Sarafinovska;

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   Authors: Viktorija Trajkoska, Zorica Arsova Sarafinovska;

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   Authors: Evgenija Nedelkoska, Zorica Arsova Sarafinovska;

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   Authors: Ana Nikolova, Darko Bosnakovski;

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   Authors: Marija Zafirova, Darko Bosnakovski;

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   Authors: Daniela Todosiova, Darko Bosnakovski, Emilija Janevik Ivanovska;

67. Accreditation of the Laboratory of Radiopharmacy – requested requirements or need of challenge
   Authors: Apostolova Paulina, Delipetreva Katarina, Smilkov Katarina, Gjorgieva Ackova Darinka, Sterjova Marija, Janevik Ivanovska Emilija;

68. Quality control of PET radiopharmaceuticals, with reference to its specifics vs quality control of conventional pharmaceuticals
   Authors: Filip Jolevski, Maja Velickovska, Maja Chochevska, Marija Atanasova, Katerina Kolevska, Emilija Janevik-Ivanovska;

69. Production of [11C] Choline in The University Institute for PET – new perspective in diagnostics of prostate malignancy in R. of Macedonia
   Authors: Katerina Kolevska, Maja Chochevska, Marija Atanasova, Maja Velickovska, Filip Jolevski, Emilija Janevik-Ivanovska;

70. PET radiopharmaceuticals in the diagnosis of neurological diseases
   Authors: Marija Pandeva, Emilija Janevik-Ivanovska;

71. Achievements and perspectives in formulation of stable immunoconjugate of the HER2-targeting trastuzumab – potential for rapid labelling with Gallium-68
   Authors: Marija Sterjova, Predrag Dzodic, Katarina Smilkov, Darinka Gorgieva-Ackova, Emilija Janevik-Ivanovska
INTERNATIONAL SYMPOSIUM AT FACULTY OF MEDICAL SCIENCES

“Current achievements and future perspectives in medical and biomedical research”

BOOK OF ABSTRACTS

November 24, 2015 – Stip
Contents

ORAL PRESENTATIONS .............................................................14
Step forward of Macedonian Agency for medicines and medical devices
Establishment and strategic plan for development .................................................15
Adherence to Therapy: A Modern Pharmacotherapeutic Approach ....................16
Use of disinfectants and antisepsics in selected health institutions in Republic of Macedonia .........................................................18
Code of Ethics for Pharmacists – Pharmaceutical Chamber of Macedonia ..........19
4-Hydroxynonenal – major bioactive marker of lipid peroxidation .......................20
Nicotinamide adenine dinucleotide biosynthesis and consumption in dysfunctional white adipocytes ........................................................21
New Insights into the Chemistry and Functions of Coenzyme Q ........................22
Genetically modified systems to study muscular dystrophies ............................23
Counteracting microbial biofilm formation onto dental materials .......................24
The endless potential of the umbilical cord blood for investigation, research and treatment .................................................................25
The cytokinesis-blocked micronucleus assay: Good choice for detection and evaluation of genotoxicity in human cells .................................................27
Multiple predictive model for clinical and subclinical depression in adolescence ....28
Molecular Imaging and therapy with radionuclides of prostate cancer ..................29
Where Nanotechnology and Nanomedicine meet – Applications and Potential Risks 31
The role of molecular cocrysals in drug development .........................................33
Drug development based on radiolabeled antibodies ........................................34
POSTER PRESENTATIONS .........................................................35
Correlation between dynamic balance and gait parameters in patients with ischemic stroke in the chronic period .........................................................36
Effect of kinesitherapy on physical activity in patient with Guillain-Barré syndrome 37
Case Report: Oligoasthenoteratozoospermia, treatment with acupuncture ...........38
Treatment of cervical spondylitis with acupuncture ...........................................40
Effect of kinesitherapy on static and dynamic balance in patient after vertebro-basilar system stroke 41
Malignant pleural effusions in lung cancer: the condition during the disease ........42
Systemic fungal infections in hematological malignancies ..................................44
Morbidity and mortality of malignant neoplasms in Macedonia .........................45
Cognitive behavioral program in treating insomnia among elderly patients ..........46
Regulations and legal aspects in management of medical waste ..........................47
Control of the psychiatric disorders in the Republic of Macedonia ......................49
Monitoring of the renal function in Indometacin treated patients with rheumatoid arthritis 50
Incidence of breast cancer in Macedonia .......................................................51
HPV virus as a cause of cancer of the cervix in R.Macedonia .............................52
Analysis of the Pap test results by age groups in the area of Kriva Palanka .............53
Giant rhinophyma treated by excision and full thickness skin grafting .................55
Incidence of patients with chronic renal failure in Skopje ................................56
Calculation of effective dose to family members of patients with thyroid diseases ....57
Contemporary Microbiological Diagnostic Tests for Rapid Identification and Detection of Resistance of Mycobacterium tuberculosis .................................................59
Analysis of clinical features and complications in patients with β-thalassemia in the region of Strumica ..............................................................60
Lymphoepithelioma: A case report ...............................................................62
F-ra Capitullum Radii L.Dex. – A Case report ................................................63
Patient with intracranial hemorrhage and arteriovenous malformation detected with transcranial color duplex sonography – case report .........................................................64
Hereditary supracondylar spur of the humerus: Case report ...............................66
Prosthetic rehabilitation in patient with advanced degree of functional disorders (case report)......67
Marginal Implants Bone Loss – a Case Report ...............................................68
Ectodermal Dysplasia, a Case Report: Challenge for Prosthodontic Solution ..........69
Alveolar socket preservation and shaping using temporary prosthetic construction – cases presentation ...........................................71
Porcelain veneers produced by refractory die method ..................................................................................................................72
Correlation of Two Different Local Hemostatic Modalities in Oral Surgery Patients with Oral Anticoagulants..................................................73
Assessment of orthodontic treatment need among school children by using ion (index of orthodontic treatment need) ...........................................75
Oral Hygiene Level Maintenance among Dental Medicine Students .................................................................................................76
Poor oral hygiene and show of caries in 12 year old children ...........................................................................................................77
Implant-prosthetic therapy failure in smoker and nonsmoker patients .............................................................................................78
Oral surgery treatment in the patients with combination syndrome .................................................................................................79
Iatrogenic mistakes, cause for a failure at surgical treatment of a chronic periapical processes .............................................................80
Evaluation of Different Preparation of Artificial Teeth and Acrylate Prosthetic Base .................................................................81
Analysis of the dimensional stability of elastomeric silicone impression materials .............................................................................82
Use of Gypsum Into Working Everyday in Dental Technician ........................................................................................................84
Mobile dental NOG types used in working dental models ................................................................................................................85
Determining normal tissue toxicity of non-radioactively Lu/Y-labeled rituximab-conjugates in rat animal model ...........................................86
Genetically Engineered Mouse Models For Human Pancreatic Cancer: A Review Of The KC, KPC And iKRas*P53* Models .........................87
Mouse Models For Human Prostate Cancer: Xenograft Vs Genetically Engineered Mouse Model ........................................................88
HER2 Transgenic Mouse Models: A Way To HER2+ Breast Cancer Targeted Therapy ..............................................................89
Types of scaffolds and their application in bone tissue engineering ..................................................................................................90
Significance of preparation of tissue samples for electron microscopy for observation and diagnosis ..........................................................91
Design and characterisation of nanoparticles as platforms for delivery of curcumin ...........................................................................93
Freeze-drying approach to enhance antibody stability .........................................................................................................................94
An overview of phytosomes as a novel herbal drug delivery system ................................................................................................95
Determination of active pharmaceutical ingredient – chloropyramine in dragées ..................................................................................97
Comparison of volatile aroma compounds between cultivated and spontaneous flowering stems of Sideritis scardica Griseb. from R. Macedonia ..................................................................................................................98
Bioactive compounds of cold-pressed oil from the seeds of Goji Berry (Lycium barbarum) .................................................................99
Development and validation of HPLC method for determination of flavonoids in herbal preparations.........................................................100
Atomic emission spectrometry with inductively coupled plasma (ICP-AES) analysis of trace elements in Camellia sinensis teas ......................................................................................................................101
Determination of trace elements analyzed by atomic emission spectrometry with inductively coupled plasma (ICP-AES) in Matricaria chamomilla L. teas present on macedonian market .........................................................................102
Human health risks from heavy metals via consumption of contaminated food ........................................................................................103
Development of an ultrasonic method for effective extraction of capsaicin as a potent bioactive compound ..................................................104
Electrochemical analysis of the properties of benzene-1,2,4-triol ...........................................................................................................105
Comparison of the procedure for registration of medicines in the European Union and the Republic of Macedonia ........................................106
Pharmacoeconomic evaluation of the antibiotic prophylaxis in orthopedic surgeries ........................................................................107
Therapeutic approach in the treatment of benign prostatic hyperplasia .................................................................................................108
Oxidative stress, aging and antioxidants ...............................................................................................................................................109
Oxidative stress, oxidative DNA damage and prostate cancer ............................................................................................................110
RNA interference (RNAi) mechanism as a basis for future successful treatment of chronic hepatitis B infection .......................................111
Anti-cancer target therapy based on drugs conjugated to hyaluronic acid ...............................................................................................114
Cancer-specific conjugated monoclonal antibodies for anticancer therapy .............................................................................................115
Accreditation of the Laboratory of Radiopharmacy – requested requirements or need of challenge ........................................................117
Quality control of PET radiopharmaceuticals, with reference to its specifics vs quality control of conventional pharmaceuticals ..................119

12
Production of $[^{11}C]$Choline in The University Institute for PET – new perspective in diagnostics of prostate malignancy in R. of Macedonia .............................................................120
PET radiopharmaceuticals in the diagnosis of neurological diseases ........................................122
Achievements and perspectives in formulation of stable immunoconjugate of the HER2-targeting trastuzumab – potential for rapid labelling with Gallium-68 ........................................123
Assessment of orthodontic treatment need among school children by using iotn (index of orthodontic treatment need)

Ana Radeska-Panovska¹, Kiro Papakoca, Natasa Denkova, Ivona Kovacevska, Katerina Zlatanovska

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Abstract
Introduction: Dental treatment is carried out in order to improve dentofacial aesthetic, function and health of patient. Aesthetic is the main reason for treatment, therefore we have to decide which aesthetic norms should we follow when we are planning orthodontic treatment. Although no consensus was reached for individual and occlusal features that need to be assessed in order to ascertain the needed orthodontic treatment. In modern literature are used multiple indices to improve treatment planning. One of these indices is IOTN (Index of Orthodontic treatment need), described by Brook and Shaw (1989) and amended by Richmond (1990) as a method to objectively assess the orthodontic treatment need.

Aim: This index is used to assess patient eligibility for orthodontic treatment.

Material and method: Examinees aged 12-16 years of both sexes occurred in the orthodontic practice with a desire to be treated. Each of them were given a questionnaire filled out before completing the clinical examination. Normative orthodontic treatment need was assessed clinically using IOTN index.

Results: 70% of examinees thought it definitely need orthodontic treatment, and 30% of them think that probably yes. In 60% of them, the irregularities of the teeth noticed parents, 40% irregularities them into notes their dentist. 60% of respondents were previously orthodontic treatment, while 40% of them never previously had orthodontic treatment.

Conclusion: A significant difference was found between our assessment and self-assessment of the examinees in the attractiveness of their occlusion. For effective orthodontic treatment, in addition to professional evaluation, subjective perception must be taken into consideration when formulating a treatment plan in order to ensure a final product that will satisfy expectations of the patient.

Keywords: IOTN, aesthetic, function.