



Organized by  
**Romanian Association for Dental  
Education**  
under the aegis of  
**Balkan Stomatological Society**



## **23<sup>RD</sup> BaSS Congress**

# **Dental Medicine of the Younger *vs.* Elderly Patients**

**10 – 12 May 2018**  
**PALAS Congress Hall | IASI | ROMANIA**  
[www.e-bass.org](http://www.e-bass.org)

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Professor Dr. NORINA CONSUELA FORNA

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## MESSAGES



BaSS President  
**Prof. Dr. Argirios Pissiotis**

*Dear distinguished members of the Balkan Stomatological Society,  
Dear Colleagues in the Balkan Countries,*

*It is my pleasure to invite you to attend the 23<sup>rd</sup> Congress of the Balkan Stomatological Society (BaSS) which will be organized this year by our President-Elect, Professor Dr. Norina Forna in Iasi, Romania at the Palas Congress Hall from the 10<sup>th</sup> through the 12<sup>th</sup> of May 2018.*

*The Balkan Stomatological Society (BaSS) following its tradition of more than twenty years in organizing, as per its constitutional obligation, another annual Congress with the purpose of bringing together dentists from all the Balkan countries to exchange scientific knowledge and share clinical experiences for the benefit of the oral health care of the people residing in the Balkans.*

*The chosen theme of this Congress is “Dental Medicine of the younger versus elderly patients”. This addresses the provision of oral health care to the young people to ensure that they live their lives with as smaller dental problems as possible but also ensures that the elderly people receive the dental care they require to be able to enjoy the rest of their lives.*

*This Congress has also another purpose except the pure scientific one and this is the opportunity it will provide once more, to bring together dentists from the Balkan and other European countries to spend a long weekend together socializing, meeting old friends, making new ones enhancing communications between professionals from the Balkan area and Europe.*

*With this message I would like to wish my dear friend and colleague Prof. Norina Forna and her team a great success with the organization and extend an invitation to all the colleagues to come to Iasi.*

**With Kind Regards,  
Prof. Dr. Argirios Pissiotis  
BaSS President**



## MESSAGES



President of BaSS Congress 2018

**Prof. Univ. Dr. Norina Forna**

Dean, Faculty of Dental Medicine,

Grigore T. Popa U.M.Ph., Iasi, Romania

President of the Romanian Society of Oral Rehabilitation

*Dear Colleagues,*

*I warmly invite you to the 23<sup>rd</sup> Balkan Stomatological Society Congress, which will be held this year in Iasi, Romania, from 10 to 12 of May 2018.*

*This meeting marks an important moment in the evolution of the Romanian Association for Dental Education and of the Faculty of Dental Medicine, under the aegis of interdisciplinarity and avant-garde.*

*The selection of the governing theme for this international scientific event is not random: the dental medicine practice raises special issues in the treatment of either young or elderly patients, which often require special demands, opening a wide field of subjects for the dental research.*

*The BASS meeting will bring our city, Iasi, in the center of the scientific community devoted to the study of advances in dental medicine. Distinguished speakers from all around the world will offer the most recent updates in the clinical and paraclinical areas of interdisciplinarity, covering a broad range of topics, and the sessions of conferences and oral communications organized throughout the meeting will provide a valuable framework for all the specialists in the field of dental medicine to change knowledge and to establish new professional collaborations.*

*We are looking forward to welcome you in Iasi, the city of seven hills, “little Rome” of Romania, from the heart of the Moldavian region, a city rich in history and culture, and we hope that your staying here will be a very pleasant experience!*

**President of BaSS Congress 2018**

**Prof. Univ. Dr. Norina Forna**

Dean, Faculty of Dental Medicine,

Grigore T. Popa U.M.Ph., Iasi, Romania

President of the Romanian Association for Dental Education

## BaSS CONGRESS HISTORY

BaSS Congresses	Venue - Dates	President of the Congress	Presidents of Committees	BaSS President	BaSS General Secretary
1 <sup>st</sup>	Helexpo, "I. Vellidis" Congress Center Thessaloniki, Greece 28 – 31 March 1996	-	Dr. Kostas Hatzipanagiotou Prof. Dr. Dimitris Karakasis	-	-
2 <sup>nd</sup>	Sava Center Belgrade, Yugoslavia 2 – 5 April 1997	Prof. Dr. Dragan Beloica	Prof. Dr. Marko Vulovic Prof. Dr. Ljubomir Todorovic	Prof. Dr. Dimitris Karakasis	Prof. Dr. Dimitris Iakovidis
3 <sup>rd</sup>	National Palace of Culture Sofia, Bulgaria 2 – 5 April 1998	Assoc. Prof. Dr. Nikola Atanasov	Assist. Prof. Dr. Nikolai Sharkov Prof. Dr. Elena Dulgerova	Prof. Dr. Dimitris Karakasis	Prof. Dr. Dimitris Iakovidis
4 <sup>th</sup>	Lutfi Kirdar Convention & Exhibition Center Istanbul, Turkey 22 – 25 March 1999	Prof. Dr. Nuri Yazicioglu	Prof. Dr. Nejat Arpak Prof. Dr. Hamit Bostanci	Prof. Dr. Dimitris Karakasis	Prof. Dr. Dimitris Iakovidis
5 <sup>th</sup>	Helexpo, "I. Vellidis" Congress Center Thessaloniki, Greece 13 – 16 April 2000	Prof. Dr. <u>Dimitris Iakovidis</u> (Dr. Georgios Tsiogas)	Dr. Georgios Tsiogas Prof. Dr. Ioannis Kayavis	Prof. Dr. Dragan Beloica	Prof. Dr. <u>Dimitris Iakovidis</u> (Prof. Dr. Dimitris Karakasis)
6 <sup>th</sup>	"Romexpo" International Fair Center Bucharest, Romania 3 – 6 May 2001	Prof. Dr. Andrei Iliescu	Dr. Alexandru Brezoescu Prof. Dr. Horia Traian Dumitru	Prof. Dr. Dragan Beloica	Prof. Dr. <u>Dimitris Iakovidis</u> (Prof. Dr. Dimitris Karakasis)
7 <sup>th</sup>	Pine-Bay Holiday Resort Hotel Kusadasi, Turkey 28 – 30 May 2002	Prof. Dr. Nejat Arpak	Prof. Dr. Murat Akkaya Prof. Dr. Hamit Bostanci	Prof. Dr. Nuri Yazicioglu	Prof. Dr. Dimitris Karakasis
8 <sup>th</sup>	Intercontinental Hotel Tirana, Albania 1 – 4 May 2003	Prof. Dr. Pavli Kongo	Dr. Besnik Gavazi Assist. Prof. Dr. Lindita Xhemnica	Prof. Dr. Nuri Yazicioglu	Prof. Dr. Dimitris Karakasis (Assoc. Prof. Dr. Petros Koidis)
9 <sup>th</sup>	Metropol Hotel Ohrid, FYROM 13 – 16 May 2004	Prof. Dr. Mile Carcev	Prof. Dr. Dragoljub Veleski Prof. Dr. Ana Minovska	Prof. Dr. Nikola Atanasov	Prof. Dr. Petros Koidis
10 <sup>th</sup>	Sava Center Belgrade, Yugoslavia 11 – 14 May 2005	Prof. Dr. Marko Vulovic	Prof. Dr. Dragan Beloica Prof. Dr. Dragoslav Stamenkovic	Prof. Dr. Nikola Atanasov	Prof. Dr. Petros Koidis
11 <sup>th</sup>	Holiday Inn Hotel Sarajevo, Bosnia-Herzegovina 11 – 14 May 2006	Prof. Dr. Halid Sulejmanagic	Prof. Dr. Sedin Kobaslija Prof. Dr. Olga Blagojevic	Prof. Dr. Andrei Iliescu	Assoc. Prof. Dr. Lambros Zouloumis

**BaSS CONGRESS HISTORY**

BaSS Congresses	Venue - Dates	President of the Congress	Presidents of Committees	BaSS President	BaSS General Secretary
12 <sup>th</sup>	Grand Cevahir Hotel Istanbul, Turkey 12 – 14 April 2007	Prof. Dr. Hamit Bostanci	Prof. Dr. Nuri Yazicioglu Prof. Dr. Murat Akkaya	Prof. Dr. Andrei Iliescu	Assoc. Prof. Dr. Lambros Zouloumis
13 <sup>th</sup>	Hawaii Grand Hotel and Resort Limassol, Cyprus 1 – 4 May 2008	Dr. Irodotos Irodotou	Dr. Joseph Violaris Dr. Georgios Pandelas	Prof. Dr. Marko Vulovic (Prof. Dr. Petros Koidis)	Assoc. Prof. Dr. Lambros Zouloumis
14 <sup>th</sup>	Palace of Culture and Sports Varna, Bulgaria 6 – 9 May 2009	Ass.Prof. Dr. Nikolai Sharkov	Prof. Dr. Aneliya Klissarova Prof. Dr. Doan Ziya	Prof. Dr. Marko Vulovic (Prof. Dr. Petros Koidis)	Assoc. Prof. Dr. Lambros Zouloumis
15 <sup>th</sup>	Helexpo, "I. Vellidis" Congress Center Thessaloniki, Greece 22 – 25 April 2010	Prof. Dr. Theodoros Lambrianidis		Prof. Dr. Petros Koidis	Prof. Dr. Argirios Pissiotis
16 <sup>th</sup>	Grand Hotel Rin Bucharest, Romania 28-30 April 2011	Prof. Dr. Norina Forna	Prof. Dr. Andrei Iliesku Prof. Dr. Alexandru Bucur Prof. Dr. Adrian Streinu Cercel	Prof. Dr. Petros Koidis	Prof. Dr. Argirios Pissiotis
17 <sup>th</sup>	Hotel Tirana International Tirana, Albania 3-6 May 2012	Prof. Dr. Ruzhdie Qafmolla	Dr. Rozarka Budina Dr. Pavli Kongo Dr. Edit Xhajanka	Prof. Dr. Hamit Bostanci	Prof. Dr. Argirios Pissiotis
18 <sup>th</sup>	Hotel Alexandar Palace Skopje, FYROM 25-27 April 2013	Prof. Dr. Ana Minovska	Dr. Marijan Denkovski Dr. Ilijana Muratovska	Prof. Dr. Hamit Bostanci	Prof. Dr. Argirios Pissiotis
19 <sup>th</sup>	Sava Centar Belgrade, Serbia 24 - 27 April 2014	Prof. Dr. Dragoslav Stamenković	Dr. Obrad Zelić Dr. Dejan Marković	Assoc. Prof. Dr. Nikolai Sharkov	Assoc. Prof. Dr. Nikolaos Economides
20 <sup>th</sup>	International Hotel Bucharest, Romania 23-26 April 2015	Prof. Dr. Norina Forna		Assoc. Prof. Dr. Nikolai Sharkov	Assoc. Prof. Dr. Nikolaos Economides
21 <sup>st</sup>	Hotel "Bosna" Banja Luka, Bosnia- Herzegovina 12 - 15 May, 2016	Dr. Mihael Stanojevic	Prim. Savo Kostadinovic Prof. Dr. Sedin Kobaslija	Prof. Dr. Dragoslav Stamenkovic	Assoc. Prof. Dr. Stelios Dalampiras
22 <sup>nd</sup>	Hotel "Macedonia Palace Hotel" Thessaloniki, Greece 4 - 7 May, 2017	Prof. Dr. Lampos Zouloumis	Dr. Georgios Tsiogas	Prof. Dr. Argirios Pissiotis	Prof. Dr. Anastasios Markopoulos
23 <sup>rd</sup>	Palas Congress Hall Iasi, Romania 10 – 12 May, 2018	Prof. Dr. Norina Forna		Prof. Dr. Argirios Pissiotis	Prof. Dr. Anastasios Markopoulos

## IASI, THE CULTURAL CAPITAL OF ROMANIA



Iasi is the largest city in eastern Romania and the seat of Iași County. Located in the Moldavia region, Iași has traditionally been one of the leading centres of Romanian social, cultural, academic and artistic life.

Known as **The Cultural Capital of Romania**, Iași is a symbol in Romanian history and the main economic and business centre of the Moldavian region of Romania.

Home to the oldest Romanian university and to the first engineering school, Iași is one of the most important education and research centres of the country. The social and cultural life revolves around the Vasile Alecsandri National Theater (the oldest in Romania), the Moldova State Philharmonic, the Opera House, the Iași Athenaeum, a famous Botanical Garden (the oldest and largest in Romania), the Central University Library (the oldest in Romania), the high quality cultural centres and festivals, an array of museums, memorial houses, religious and historical monuments. The city is also known as the site of the largest Romanian pilgrimage which take place each year, in October.



### IASI GENERAL INFORMATION:

Location: North-East of Romania  
Elevation: 200 ft (60 m)  
Size: City – 93.9 sq. km  
Metropolitan area – 808 sq. km  
Population: 362.142 (2016)  
First documented: 1408 AD



## CONGRESS VENUE



## PALAS Congress Hall

### THE PALAS ENSEMBLE

The Palas multifunctional building complex is the largest investment in the real estate sector outside Bucharest, worth over 265 million euros, made by Iulius Group. The Uni Project, inaugurated in May 2012, introduced the concept of a “lifestyle center” on the domestic market.

Situated in the historical center of Iasi, near the Palace of Culture, the urbanistic ensemble attracts over 12 million visitors every year.



Palas includes shopping, shopping street, 5 meeting rooms, offices, a 4 \* hotel, underground parking of 2,500 seats, park and green areas over 50,000 sqm.

Palas is also recognized as a business pole, thanks to its first office component, where many multinational companies operate in areas such as IT, finance, engineering engineering, consulting and insurance. The Unic Business Center features 6 Class A office buildings, distinguished by state-of-the-art technical features and modern facilities.

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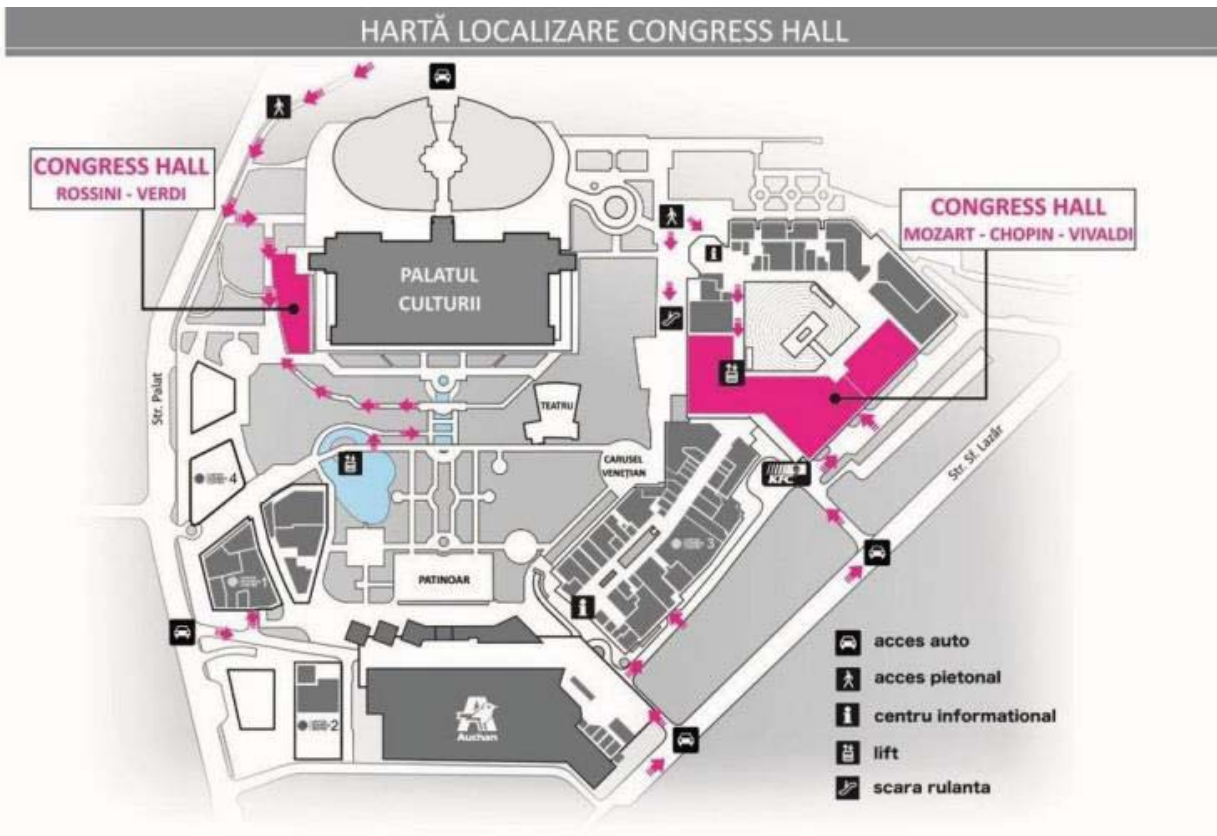
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The PALAS ensemble is not only a place for shopping and business, but also a special destination for spending free time in nature. Located on the grounds of the former Garden of the Domnesti Court, in the oriental style, the present garden preserves elements from the arrangements made by Vasile Lupu, such as the circular lake and a closed pontoon with a gazebo on the place of the Middle Ages havuz.



**CONGRESS HALLS: 5**  
**The biggest hall: 700 places**

MOZART HALL	120 places
CHOPIN HALL	300 places
VIVALDI HALL	240 places
ROSSINI HALL	350 places
VERDI HALL	250 places



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## SOCIAL PROGRAM AND EVENTS

### THURSDAY, May 10<sup>th</sup>

- |               |  |
|---------------|--|
| 17:00 – 18:30 | OPENING CEREMONY<br>(National Theatre from Iasi) |
| 19:00         | WELCOME COCKTAIL<br>("CASTEL" Restaurant)        |

### FRIDAY, May 11<sup>th</sup>

- |               |  |
|---------------|--|
| 10:00 – 12:00 | 1 <sup>st</sup> BaSS Council Meeting<br>(MOZART Hall, PALAS Congress Hall)             |
| 14:00 – 16:00 | BaSS – FDI – ARO – ERO – ADEE Meeting<br>("Vasile Pogor" Conference Hall, CITY HALL)   |
| 16:30 – 18:30 | Dental Medicine Faculties DEANS Meeting<br>("Vasile Pogor" Conference Hall, CITY HALL) |
| 20:00         | GALA DINNER<br>(CHOPIN + VIVALDI Hall, PALAS Congress Hall)                            |

### SATURDAY, May 12<sup>th</sup>

- |               |  |
|---------------|--|
| 09:00 – 10:00 | Professional Associations Meeting<br>(MOZART Hall, PALAS Congress Hall)    |
| 10:00 – 12:00 | 2 <sup>nd</sup> BaSS Council Meeting<br>(MOZART Hall, PALAS Congress Hall) |
| 12:00 – 14:00 | BaSS General Assembly<br>(CHOPIN Hall, PALAS Congress Hall)                |
| 14:00         | Closing Ceremony<br>(CHOPIN Hall, PALAS Congress Hall)                     |

## TOURISTIC OPTIONS :

### IASI city tour (3h 30')

- FEE: 12 EUR/ person/ for groups 18 persons
- Transport by bus
- The price includes accompanying guide (Romanian, English, French languages)

Enjoy the charm of the former capital of Moldavian region, the perfume of linden trees and the ancient stories of the mitropolit and the princes who made from this old town a point of interest in the medieval Europe. Be part of the events that occur in the city that proudly calls itself “the Capital of Culture” from Romania.



Start the visit with a walk in the Palace Square and review the main monuments in the area: Palace of Culture (the former palace of Moldavian rulers), Palas Mall Gardens, St. Nicholas Church, Dosoftei House.

Continue the visit with the monuments situated along the Stefan cel Mare Boulevard: Three Hierarchs Church, Catholic Cathedral, Metropolitan Church, City Hall Palace and the National Theater.

Travel to the Unirii Square to see the Alexandru Ioan Cuza Monument and its historical buildings, Select Hotel and Traian Hotel (built by Gustave Eiffel). Walk up the Copou Boulevard to feel the pulse of the university heart of Iasi; allow yourself a moment of relaxation and day-dreaming in the The Hall of the Lost Footsteps from “Alexandru Ioan Cuza” University, 120 meters in length, painted in fresco by Sabin Balasa.

Make a short visit in the Copou Garden, to see the 250 years old linden tree known as the place where Mihai Eminescu, the greatest poet of the Romanians, used to rest and to find sources of inspiration.

The last objective of the trip will be the Cetatua Hill, from where you can admire the beautiful panorama of Iasi and where you will visit the Cetatua Monastery, the former summer residence of the Moldavian rulers. Afterwards you will return to the central area.



**One day trip to Bucovina and Neamt:**

- FEE: 55 EUR/ person/ for groups 18 persons
- Transport by modern bus
- The price includes accompanying guide (Romanian, English, French languages)

Departure from Iasi (around 8.30 AM) towards Neamt County, the region with the most impressive monuments of Moldavian Middle Ages, the old monasteries and the defense fortresses.



We will visit the Agapia Monastery, the largest religious institution in the area (to see the church – and the interior frescoes painted by the Romanian famous

Painter Nicolae Grigorescu, the museum and the ateliers). We will stop to visit the Neamt Citadel (after a walk uphill for about 15 minutes to reach the objective). The coffee breaks and lunch time are not included in the price but compulsory as timing.

We will go towards Bucovina, the region that belongs to UNESCO'S patrimony and awarded by FIJET with the Pomme D'or (Golden Apple prize). We will stop for taking photos of local architecture in Baisesti Village, on the valley of Moldova River.

The main objective of the trip will be to visit the Voronet Monastery - The Sixtine Chapel of the East, famous for the impressive frescoes on the outside walls, representing the Final Judgment and other scenes of the Holly Book.



We will return to Iasi (arriving around 7 PM).

**23<sup>rd</sup> BaSS Congress**

**Dental Medicine of the Younger *vs.* Elderly Patients**

**10 – 12 May 2018**

**PALAS Congress Hall | IASI | ROMANIA**



# **SCIENTIFIC PROGRAM**



# SCIENTIFIC PROGRAM OVERVIEW

THURSDAY, MAY 10<sup>th</sup>, 2018

TIME	CHOPIN A Hall	CHOPIN B Hall	VIVALDI A Hall	VIVALDI B Hall	MOZART Hall	ROSSINI A Hall	ROSSINI B Hall	VERDI Hall
10:00 18:00	Receiving and registration of the participants							
10:00 12:00	<p><b>PLENARY LECTURES</b></p> <ul style="list-style-type: none"> <li>● <b>Antigoni Delantoni (GREECE) 60 min:</b> -Medical vs. Dental radiographs – When and How to use each in the Maxillo-Facial Area</li> <li>● <b>William Papaioannou (GREECE) 30 min:</b> The Paradigm for Non-Surgical Periodontal Therapy Today</li> <li>● <b>Sergiu Ciobanu (Rep. MOLDOVA) 30 min:</b> The Role of Polymerase Chain Reaction in the Evaluation of the Periodontal Disease</li> <li>● <b>Radu Septimiu Campian (ROMANIA) 30 min:</b> Ethics and Deontology in Dentistry</li> </ul>	<p><b>PLENARY LECTURES</b></p> <ul style="list-style-type: none"> <li>● <b>Norina Forna (ROMANIA) 60 min:</b> Haptic Systems in Dental Medicine</li> <li>● <b>Helmut B. Engels (GERMANY) 30 min:</b> Extraction – Implantation – Prosthesis</li> <li>● <b>Ender Kazazoglu (TURKEY) 30 min:</b> Immediate Loading: Why, When and How</li> </ul>	<p><b>PLENARY LECTURES</b></p> <ul style="list-style-type: none"> <li>● <b>Aureliana Caraiane (ROMANIA) 30 min:</b> Perspectives of Nanotechnologies using in Dental Medicine</li> </ul>	<p><b>ORAL PRESENTATIONS</b></p> <p>Oral surgery III (2) OP 101-103 Hospital Dentistry (1) OP 53 New technologies (1) OP 59 Preventive Dentistry (2) OP 173-174</p>	<p><b>PRESS CONFERENCE</b></p>	<p><b>ORAL PRESENTATIONS</b></p> <p>Restorative dentistry I (8) OP 202-209</p>	<p><b>ORAL PRESENTATIONS</b></p> <p>Periodontology I (6) OP 148-155</p>	<p><b>WORKSHOP</b></p> <p><b>ORAL IMPLANTOLOGY</b> Megagen</p>

12:00 14:00	<p><b>PLENARY LECTURES</b></p> <ul style="list-style-type: none"> <li>● <b>Cristina Bodnar (ROMANIA) 30 min:</b> Clinical Aspects in Oral Rehabilitation in Younger Adult and Elderly Patients with Specific Needs</li> <li>● <b>Stylianios Dalampiras (GREECE) 30 min:</b> Orthodontia and Oral &amp; Maxillofacial Surgery in Close Collaboration</li> <li>● <b>Vlad Deac (ROMANIA) 30 min:</b> The Prevention in Stomatology – A New Vision</li> <li>● <b>Sorin Andrian (ROMANIA) 30 min:</b> Modern Approaches regarding Root Caries Lesions Control</li> </ul>	<p><b>PLENARY LECTURES</b></p> <ul style="list-style-type: none"> <li>● <b>Paula Perlea (ROMANIA) 30 min:</b> Endodontics in Younger versus Elderly Patients</li> <li>● <b>Eugenia Popescu (ROMANIA) 30 min:</b> Dental Extraction and Bisphosphonates</li> </ul>	<p><b>PLENARY LECTURES</b></p> <ul style="list-style-type: none"> <li>● <b>Ecaterina Ionescu et al. (ROMANIA) 30 min:</b> The Biological Determinant in Orthodontic Therapy</li> <li>● <b>Alexandru Bucur (ROMANIA) 30 min:</b> Clinical and Histopathological Considerations on Bone Grafts in Implantology</li> </ul>	<p><b>ORAL PRESENTATIONS</b> Restorative dentistry II (8) OP 194-201</p>	<p><b>STUDENTS AND YOUNG DENTISTS SESSION</b> OP 251-259 OP192, OP100, OP80, OP77</p>	<p><b>ORAL PRESENTATIONS</b> Restorative dentistry III (8) OP 210-217</p>	<p><b>POSTER PRESENTATIONS</b> Paediatric dentistry I (9) PP 108-116 Preventive dentistry (7) PP 149-155 Periodontology I (8) PP 129-136</p>	<p><b>WORKSHOP ORAL IMPLANTOLOGY</b> Megagen</p>
			<p><b>DEBATE (30 min):</b> <b>UMB – BaSS</b> Medallion</p> <p><b>Moderators:</b> <b>V. Milicescu, M. Rusu (ROMANIA)</b></p>				<p><b>12:30 – 14:00</b> <b>Dental Medicine Faculties DEANS Meeting</b></p> <p><b>Curricula Harmonization for Dental Medicine Residency</b></p> <p><b>Moderator:</b> <b>Ecaterina Ionescu (ROMANIA)</b> <b>CMDR President</b></p>	

Lunch Break

14:00 14:30	<p><b>ORAL PRESENTATIONS</b> Oral Surgery I (4) OP 93-96</p>	<p><b>ORAL PRESENTATIONS</b> Oral Surgery II (4) OP 97-100</p>	<p><b>ORAL PRESENTATIONS</b> Oral diagnosis – oral radiology I (6) OP 60-65</p>	<p><b>POSTER PRESENTATIONS</b> Laser (1) PP 53 New technologies (2) PP 54-55 Oral implantology (5) PP 65-69 Oral pathology (4) PP 70-73</p>	<p><b>ORAL PRESENTATIONS</b> Orthodontics I (6) OP 106-110, OP 123</p>	<p><b>ORAL PRESENTATIONS</b> Paediatric Dentistry I (6) OP 132-137</p>	<p><b>WORKSHOP LASERS IN DENTISTRY</b> HTP Medical Dr. Marten Toewe (GERMANY)</p>
14:30 16:00	<p><b>ORAL PRESENTATIONS</b> Oral Implantology I (6) OP 72-77</p>	<p><b>ORAL PRESENTATIONS</b> Endodontology I (6) OP 22-27</p>	<p><b>ORAL PRESENTATIONS</b> Fixed Prosthodontics I (6) OP 35-40</p>				

accumulate in the tissues of humans and exhibit hazardous effects even at very low concentrations. They are also encountered in the animal tissues. The aim of this study was to test the hypothesis whether animal-derived biomaterials exhibit any toxic heavy metals. **Methods and Materials:** Porcine-origin bone grafts, membranes and enamel matrix derivatives were purchased and underwent sample preparation procedures. Accordingly, all materials were subjected to acid digestion to extract all embedded elements. Finally, the samples were analyzed with inductively coupled plasma mass spectrometry to detect the concentrations of toxic heavy metals. **Results:** Toxic elements including arsenic, cadmium, mercury lead, chromium, cobalt have been detected within various levels in all of the analyzed biomaterials. The concentrations of toxic heavy metals differed ppb to ppm levels depending on the investigated materials. **Conclusion:** To the best of our knowledge this is the first study investigating the toxic heavy metal content of dental biomaterials. According to the results of this pilot study, porcine-origin bone grafts, membranes and enamel matrix derivatives contains various toxic elements within different concentrations. Further studies are required to reveal whether animal-origin biomaterials may lead an unintentional heavy metal transfer to applied tissues. Additionally, potential detrimental effects of these identified concentrations of toxic elements should be investigated by further studies.

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#### PERIODONTAL AFFECTION OF SEX HORMONES IN THE REPRODUCTIVE PERIOD IN THE WOMAN

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FYROM

#### 15 - PERIODONTOLOGY

**Introduction:** It is generally considered that the menstrual cycle is not followed by significant gingival disorders, although occasionally an increased exudation from the inflamed gingiva can be seen or an emphasis on pre-existing gingival inflammation. **Aim:** To asses the impact of sex hormone progesterone in the maintenance of periodontal health in women in the reproductive period of life by determining: - serum and salivary levels of progesterone; - the influence of progesterone on the periodontal tissue complex, followed by the indices of periodontal health. **Material and Method:** A group of 30 patients in the reproductive period, aged 30 to 45, was formed; assessment of periodontal health was performed through the indexes of: dental plaque, gingival inflammation, gingival enlargement, clinical attachment loss, and luxation of teeth. Examination of serum and salivary levels of progesterone was performed with Progesterone RIA-DSL 3400 Advantage Diagnostics technology. **Results:** Pearson's coefficient of correlation between the progesterone values in serum and saliva in the examinees from the reproductive period showed a strong correlation ratio with an identical value of  $r = 0.86$  in both media. The correlative values between salivary and serum progesterone levels with periodontal indices indicated a moderate to

strongly positive correlation ( $r = 0.46$  to  $0.83$ ). **Conclusion:** The obtained results indicate the pronounced influence of progesterone on gingival and periodontal health, which suggests the role of dentists in treatment modalities in the reproductive period in women.

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**CONVENTIONAL PERIODONTAL THERAPY FOR PATIENTS WITH ATHEROSCLEROSIS: STUDY REGARDING THE EFFECTS ON IL-1 $\beta$ , IL-6, TNF- $\alpha$**   
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#### 15 - PERIODONTOLOGY

**Aim of the study:** This study aimed to assess the effects of conventional periodontal treatment by scaling and root planing on GCF levels of TNF-a, IL-1b and IL-6, to clarify the possible link between periodontitis and atherosclerosis. **Material and Methods:** The study included a total of 40 subjects divided into two main groups: the study group ( $n = 26$ ) and control group ( $n = 14$ ). The cases included patients with atherosclerosis with prescribed diet (D) or antilipemic therapy with a drug from the statin group (S). Controls (C) were selected from healthy subjects with chronic periodontitis but systemically healthy. Cases underwent periodontal examination that included global and radiological examination. Measurements of periodontal parameters, periodontal probing, BOP, plaque, calculus, tooth mobility and furcation lesions were standardized between the examiners. Analysis of IL-1b, IL-6 and TNF- $\alpha$  in crevicular fluid was conducted at the beginning of the study and at 3 months after periodontal therapy. **Results:** The significant decreases were found in the crevicular fluid for all cytokines. The most obvious decrease ( $P = 0.001$ ) was for IL-6 in the group of statins. This study shows that inflammation plays a key role in the association between periodontal disease and atherosclerosis. **Conclusions:** Combining antilipemic treatment with periodontal therapy can provide beneficial effects on metabolism and control of inflammatory atherosclerosis by lowering proinflammatory cytokines.

**Keywords:** periodontal parameters, cytokines, crevicular fluid, chronic periodontitis, atherosclerosis.

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**GINGIVAL TISSUE'S OPTICAL COHERENCE TOMOGRAPHY ANALYSIS FOR PATIENTS WITH CHRONIC HEPATITIS C AND PERIODONTAL DISEASE**

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#### 15 - PERIODONTOLOGY

**Objectives:** Optical Coherence Tomography (OCT) is a non-invasive imagistic tool used for diagnosis. This pilot study was designed to assess the possibility of using this method for the observation of morphological changes which occur during the association between periodontal