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EXHIBITION

During the 24th BCLF Meeting exhibition is arranged
at the Tirana International Hotel Halls.

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BCLF

24th Meeting of Balkan Clinical Laboratory Federation

Scientific Program

Tirana International Hotel
Skanderbeg Square
Tirana, Albania

05th-07th October, 2016
Tirana, Albania

SCIENTIFIC PROGRAMME**WEDNESDAY, OCTOBER 05, 2016****12:00 - 17:00** **REGISTRATION****17:00** **OPENING CEREMONY****WELCOME ADDRESSES**

Prof. Anyla Bulo Kasneci, Meeting President, Albania

Prof. Najdana Gligorovic-Barhanovic, BCLF President, Montenegro

Prof. Maurizio Ferrari, IFCC President, Italy

Welcome address on behalf of local authorities

Chairs: N. Gligorovic-Barhanovic (Montenegro)
 A. Bulo Kasneci (Albania)**17:30** **OPENING LECTURE****P4 MEDICINE: PREDICTIVE, PREVENTIVE, PERSONALIZED AND PARTICIPATORY
A NEW TREND IN LABORATORY MEDICINE**

Maurizio Ferrari (Italy)

19:00 **WELCOME RECEPTION****THURSDAY, OCTOBER 06, 2016****8:00** **REGISTRATIONS****9:00-11:00** **SCIENTIFIC SYMPOSIUM 1****Chairs:** M. Boncheva (Bulgaria)
 E. Refatllari (Albania)**9:00** **MANAGEMENT OF HEART FAILURE: MORE PERSPECTIVES FROM THE
VITAMIN D / PTH AXIS?**

D. Gruson (Belgium)

9:30 **ASSOCIATION OF CIRCULATING RESISTIN AND ITS RECEPTOR CYCLASE-
ASSOCIATED PROTEIN 1 MRNA LEVELS WITH CORONARY ARTERY
DISEASE**M. Sopić, J. Joksić, V. Spasojević-Kalimanovksa, D. Kalimanovska-Oštrić,
K. Anđelković, Z. Jelić-Ivanović (Serbia)

- 15:00** **THE NEW MEDICAL BIOLOGY GOVERNANCE MODELS IN FRANCE: STRATEGIES, OUTCOMES AND EUROPEAN EFFECTS**
B. Gouget (France)
- 15:30** **LABORATORY MEDICINE POSTGRADUATE TRAINING IN ALBANIA ACCORDING EUROPEAN SYLLABUS**
E.Refatllari, A. Bulo Kasneci, N. Marku, N. Heta Alliu, I. Korita, T. Dedej (Albania)
- 16:00** **CONTINUING PROFESSIONAL DEVELOPMENT OF THE HEALTHWORKFORCE IN ALBANIA**
E. Shehu (Albania)
- 16:15** **ACCREDITATION OF MEDICAL LABORATORIES IN ALBANIA**
M. Xhema (Albania)
- 16:30-17:00** **COFFEE & EXHIBITION & PRACTICE**
- 17:00-19:00** **SCIENTIFIC SYMPOSIUM 4**
- Chairs:** M. Ciprian-Valentin (Romania)
 I. Korita (Albania)
- 17:00** **UNIFORM NOMENCLATURE AND CODING OF LABORATORY TESTS. A USEFUL TOOL NOT ONLY FOR LABORATORIES**
D. Rizos (Greece)
- 17:30** **DETERMINATION OF PLASMA PHENYLALANINE AND TYROSINE IN PATIENTS WITH PHENYLKETONURIA BY HPLC**
M.Ciprian-Valentin, C.Ladaşiu Ciolacu, C. Petrescu, I. Mandruţiu, D. Bechet (Romania)
- 18:00** **IQCP: PRACTICAL IMPLEMENTATION ON VITAMIN D IMMUNOASSAY, ADVANTAGES AND DISADVANTAGES**
P. Desoski, B. Jaglikovski, V. Soleva (Macedonia)
- 18:15** **ENDOTHELIAL PROGENITOR CELLS (EPCS) COUNT BY MULTICOLORFLOW CYTOMETRY**
M. Falay, F. Ceran, K. Güneş, S. Dagdaş, G. Özet (Turkey)
- 18:30** **BETA 2 MICROGLOBULIN, AS A RISK FACTOR IN CHRONIC HEMODIALYSIS PATIENTS**
V. Topçiu Shufta, V. Haxhibeqiri, L. Begolli, Z. Baruti (Kosova)
- 18:45** **ADVANTAGES OF CERULEIN-INDUCED PANCREATITIS MODEL IN RATS**
D.Thereska, A. Gjata, E. Bollano, K. Lilaj, S. Heta, N. Kacani (Albania)
- 19:00** **BCLF EXECUTIVE BOARD MEETING**
- Chair:** Najdana Gligorovic-Barhanovic (Montenegro)
 BCLF President

FRIDAY, OCTOBER 07, 2016**9:00-11:00 SCIENTIFIC SYMPOSIUM 5**

Chairs: N. Majkic Singh (Serbia)
U. Görmüş (Turkey)

9:00 ALCOHOL – METABOLISM AND RELATED HEALTH PROBLEMS, POSSIBLE BIOLOGICAL MARKERS FOR ALCOHOL ABUSE
T. Zima (Czech Republic)

9:30 POTENTIAL RISK PREDICTORS FOR CARDIOVASCULAR DISEASES IN PATIENTS WITH OBSTRUCTIVE SLEEP APNEA SYNDROME
S. Ozben, N. Huseyinoglu, F. Hanikoglu, T. S. Guvenc, B. Zeynep Yildirim, A. Cort, S. Ozdem, T. Ozben (Turkey)

10:00 INFLAMMATION MARKERS IN PATIENTS WITH ALCOHOLIC LIVER DISEASE
I.Korita, S. Degandt, M. Langlois, J. Basho, E. Refatllari, N. Heta Alliu, N. Marku, A. Bulo Kasneci, V. Blaton (Albania)

10:15 THE IMPORTANCE OF IMMUNOGLOBULIN G N-GLYCANS IN COLORECTAL CANCER
K. Thaçi, F. Vučković, E. Theodoratou, S.M. Farrington, M. Perola, Y. Aulchenko, M.G. Dunlop, H. Campbell, G. Lauc (Kosova)

10:30 OLD AND NEW BONE TURNOVER MARKERS: WHY LOOKING FOR NEW MARKERS
A. Sepici Dinçel (Turkey)

10:45 SERUM TUMOR MARKERS CA 15-3 AND CEA IN BREAST CANCER
N. Serdarevic (Bosnia and Herzegovina)

11:00–11:30 COFFEE & EXHIBITION & PRACTICE

11:30–13:30 SCIENTIFIC SYMPOSIUM 6

Chairs: T. Ozben (Turkey)
J. Coric (Bosnia and Herzegovina)

11:30 PRENATAL SCREENING AND FETAL DNA
U. Görmüş (Turkey)

12:00 PHARMACOGENOMICS AND PHARMACOMICROBIOMICS IN PRECISION MEDICINE
B. Süssleyici (Turkey)

12:30 OXIDATIVE STRESS STATUS AND LIPID PROFILE DURING PHYSIOLOGICAL NON-COMPLICATED PREGNANCY
D. Ardalic, A.Stefanovic, S. Spasic, A. Zeljkovic, J. Vekic, V. Kalimanovska Spasojevic, Z. Jelic Ivanovic, V. Mandic Markovic, Z. Milkovic (Serbia)

-
- 18:00** **PROSPECTIVE AND COMPARATIVE CLINICAL STUDY OF BLOOD RISK FACTORS IN PATIENTS WITH ALLERGIC ASTHMA ON IMMUNOTHERAPY**
L. Neziri-Ahmetaj, B. Mehic, R. Gojak (Kosova)
- 18:15** **THE PREVALENCE OF DNA-VIRAL INFECTION IN KIDNEY TRANSPLANT RECIPIENT**
M. Dibra, K. Hoti, D. Lacej, A. Mema, A. Daka, B. Arapi, M. Barbullushi, A. Koroshi, A. Koraqi, A. Idrizi (Albania)
- 18:30** **CLOSING CEREMONY**
- 21:00** **GALA DINNER**

POSTER SESSIONS

Poster Board Number

The poster board number correspond to the abstract code shown on the board

Poster display

Poster set up 09:00 - 10:00
Poster display 10:00 - 18:00

The authors must remove poster before 18:30. The organizers are not responsible for poster left on the display.

Poster Display: Thursday, October 06, 2016

• Cardiovascular Disease	PP-TH-001	PP-TH-011
• Diabetes, Obesity/Metabolic Syndrome	PP-TH-012	PP-TH-021
• Gastrointestinal and Liver Disease	PP-TH-022	PP-TH-024
• Hematology and Coagulation	PP-TH-025	PP-TH-029
• Inflammation and Chronic Disease	PP-TH-030	PP-TH-037
• Oncology, Tumor Markers	PP-TH-038	PP-TH-042
• Oxidative stress and Antioxidants	PP-TH-043	PP-TH-045
• Renal disease	PP-TH-046	PP-TH-057

Poster Display: Friday, October 07, 2016

• Bone Metabolism and Vitamin D	PP - F - 058	PP - F - 063
• Endocrinology, Pregnancy	PP - F - 064	PP - F - 071
• Immunology	PP - F - 072	PP - F - 073
• Infectious disease	PP - F - 074	PP - F - 082
• Microbiology	PP - F - 083	PP - F - 091
• Quality assessment	PP - F - 092	PP - F - 099
• Technology, instrumentation and methods	PP - F - 100	PP - F - 106
• Molecular Biology in Diagnosis	PP - F - 107	PP - F - 108
• Varia	PP - F - 109	PP - F - 114

Authors will be present at their posters from 13:00 until 14:00

• CARDIOVASCULAR DISEASE**PP – TH – 001**

THE ROLE OF NT-PROBNP IN THE DIAGNOSIS OF PRECLINICAL DIASTOLIC DYSFUNCTION IN TYPE 2 DIABETIC MELLITUS PATIENTS

A. Banushi, S. Qirko, V. Papparisto, N. Kuka, A. Mitre, Z. Ylli, I. Refatllari, A. Bulo, A. Goda (Albania)

PP – TH – 002

PROBNP TESTING IN HEART FAILURE PATIENTS USING SACUBITRIL/VALSARTAN

E. Hasani, A. Mema, M. Dibra, A. Doko (Albania)

PP – TH – 003

B-TYPE NATRIURETIC PEPTIDE INDEPENDENTLY PREDICTS IN-HOSPITAL MORTALITY IN PATIENTS WITH ST-SEGMENT ELEVATION MYOCARDIAL INFARCTION TREATED BY PRIMARY PERCUTANEOUS CORONARY INTERVENTION

O. Gabric, N. Zlatic (Serbia)

PP – TH – 004

LEFT VENTRICULAR FAILURE EVALUATED BY NT PROBNP AND SERUM HEPcidIN IN THALASSEMIA PATIENTS

V. Manolov, G. Dimitrov, T. Yaneva-Sirakova, R. Tarnovska-Kadreva, V. Vasilev, K. Tzatchev (Bulgaria)

PP – TH – 005

ANTICARDIOLIPIN AND ANTINUCLEAR ANTIBODIES AS POSSIBLE MARKERS FOR CORONARY ARTERY DISEASE IN YOUNG ALBANIAN PATIENTS TREATED WITH MYOCARDIAL REVASCULARIZATION PROCEDURES

J. Seiti, M. Cafka, M. Rroji, I. Balla, E. LLanaj, M. Jordhani, A. Goda (Albania)

PP – TH – 006

HYPERHOMOCYSTEINEMIA IN PATIENTS WITH DEEP VEIN THROMBOSIS

J. Brezovska-Kavrakova, M. Krstevska, K. Tosheska-Trajkovska, S. Cekovska, D. Spasovski (Macedonia)

PP – TH – 007

HIPERHOMOCYSTEINEMIA AND THE STAGE OF CORONARY ARTERY DISEASE

M. Krstevska, J. Kavrakova-Brezovska (Macedonia)

PP – TH – 008

EVALUATION OF MEAN PLATELET VOLUME (MPV) IN PATIENTS WITH ACUTE CORONARY SYNDROME

A. Rama, I. Berberi, S. Shehu, E. Harja, B. Resulaj, T. Dedej (Albania)

PP – TH – 009

PLATELET/LYMPHOCYTE RATIO IN PATIENTS WITH MYOCARDIAL INFARCTUS

A. Sivrikaya, S. Abusoglu, A. Unlu (Turkey)

PP – TH – 010

NON-INFECTIVE ENDOCARDITIS IN A PATIENT WITH FEVER

D. Teferici, A. Lloji, A. Idrizi, Y. Themeli (Albania)

PP – TH – 011

PREVALENCE OF MICROALBUMINURIA IN HYPERTENSIVE PATIENTS WITH OR WITHOUT DIABETES MELLITUS TYPE 2

I. Kostovska, M. Gjerakaroska, S. Cekovska, K. Tosheska-Trajkovska, J. Brezovska, D. Labudovic (Macedonia)

• DIABETES, OBESITY, METABOLIC SYNDROME**PP – TH – 012**

THE RELATIONSHIP BETWEEN GLYCAEMIC CONTROL AND PRECLINICAL DIASTOLIC DYSFUNCTION IN PATIENTS WITH TYPE 2 DIABETES MELLITUS OR PREDIABETES

A. Banushi, S. Qirko, V. Paparisto, N. Kuka, Z. Ylli, I. Refatllari, N. Heta, A. Goda (Albania)

PP – TH – 013

SERUM ASYMMETRIC DIMETHYLARGININE LEVELS IN PATIENTS WITH DIABETES MELLITUS

M.N. Atalar, A. Unlu, S. Baldane, S.H. İpekci, S. Abusoglu, L. Kebapcilar (Turkey)

PP – TH – 014

A RETROSPECTIVE STUDY: LIPID PROFILES IN GESTATIONAL DIABETIC INDIVIDUALS WITH E23K POLYMORPHISM IN KCNJ11 GENE

E. Menevse, A. Sivrikaya, H. Arikoglu, D. Erkok Kaya (Turkey)

PP – TH – 015

CORRELATION OF Hb A1c AND BLOOD SUGAR DURING NINE WEEKS CHILDREN WITH DIABETES TYPE 1

M. Kutllovci-Përvetica, L. Begolli, Sh. Veseli, V. Haxhibeqiri, E. Myrtaj, A. Lepaja, N. Bislimi, S. Hadergjonaj, N. Budima, B. Bislimi, D. Sopa, M. Shala (Kosova)

PP – TH – 016

CORRELATION BETWEEN THE DIABETES MELLITUS TYPE 1 WITH THYROID DYSFUNCTION

S. Biljali, N. Nuhii, D. Selmani, A. Beadini (Macedonia)

PP – TH – 017

DIABETIC NEPHROPATHY: MOST AFFECTED AGE-GROUP AND GENDER IN KOSOVO

E. Myrtaj, Z. Baruti-Gafurri, M. Kutllovci, V. Haxhibeqiri, Sh. Veseli (Kosova)

PP – TH – 018

URINARY BIOMARKERS IN THE EARLY DIAGNOSIS OF RENAL DAMAGE IN DIABETES MELLITUS PATIENTS

N. Trajkovska, B. Chadinovska, S. Todorova, T. Gruev, N. Gruev (Macedonia)

PP – TH – 019

MICROALBUMINURIA AS THE EARLY IDENTIFICATION OF IMPAIRMENT IN PATIENTS WITH DM

A. Goxharaj, H. Celo, R. Sinani, E. Hasani, B. Celo (Albania)

PP – TH – 020

VISCERAL ADIPOSITY INDEX CORRELATES WITH RETINOL-BINDING PROTEIN 4 AND INSULIN RESISTANCE, BETTER THAN ANTHROPOMETRIC PARAMETERS IN OVERWEIGHT/OBESE ADOLESCENT GIRLS

A. Klisic, N. Gligorovic-Barhanovic, V. Skerovic, M. Jovanovic, N. Kavaric, J. Kotur-Stevuljevic (Montenegro)

PP – TH – 021

METABOLIC DISTURBANCES IN OBESITY

T. Ruskovska, Z. Popovska-Dimova, V. Nikolovski (Macedonia)

• GASTROINTESTINAL AND LIVER DISEASE**PP – TH – 022**

IRON LOAD, FERRITIN AND SATURATED TRANSFERRIN PARAMETERS IN PATIENTS AFFECTED BY CIRRHOSIS IN ORDER TO FIND PATIENTS AFFECTED BY HEMOCHROMATOSIS GENETIC DISEASE (HFE GENE)

S. Leli, A. Bulo Kasneci, A. Babameto, A. Mitre, G. Zoraqi (Albania)

PP – TH – 023

A ROUTINE BLOOD TEST AT BASELINE MAY PREDICT NON-SVR IN CHRONIC HEPATITIS C (CHC) TREATMENT WITH PEGINF /RBV

A. Kristo, J. Basho, N. Leka, E. Petrela, A. Rucaj-Barbullushi, J. Cela, F. Prifti, J. Lavdari (Albania)

PP – TH – 024

THE DECLINE RATE OF ALT AT WEEK 4 MAY PREDICT SVR IN CHRONIC HEPATITIS C (CHC) PATIENTS TREATED WITH PEGINF AND RIBAVIRIN

A. Kristo, J. Basho, E. Petrela, A. Rucaj-Barbullushi, F. Prifti, J. Lavdari, E. Simaku (Albania)

• HEMATOLOGY AND COAGULATION**PP – TH – 025**

ANEMIA IN PATIENTS WITH HIV/AIDS

E. Lamaj, M. Kokici, T. Dedej, P. Daja, N. Marku (Albania)

PP – TH – 026

THROMBOCYTOPENIA IN PATIENTS WITH HIV/AIDS

E. Lamaj, M. Kokici, T. Dedej, P. Daja, N. Marku (Albania)

PP – TH – 027

THE ROLE OF MCHC (HYPER DENSE ERYTHROCYTE) AS A NEW TOOL IN THE DIAGNOSIS OF HEREDITARY SPHEROCYTOSIS (HS)

A. Barbullushi, A. Godo, P. Daja, E. Refatllari, A. Beqja, D. Bali, M. Xhafa, A. Bulo (Albania)

PP – TH – 028

DEEP2 –CLINICAL TRIAL IN UHCT ” MOTHER TERESA”

M. Kreka, E. Nastas, E. Refatllari, A. Godo, A. Bulo, A. Krymi, J. Millo (Albania)

PP – TH – 029

THALASSEMIA TRAIT AND OTHER HAEMOGLOBINOPATHIES IN OUTPATIENT CLINICS OF UHCT “MOTHER TERESA” – A SIX MONTHS STUDY

E. Refatllari, N. Heta, I. Korita, M. Janko, A. Beqja, A. Barbullushi, Dh. Tarifa, A. Bulo (Albania)

• INFLAMMATION AND CHRONIC DISEASE**PP – TH – 030**

PLASMA LEVELS OF MARKERS OF INFLAMMATION, AS EXPRESSION OF THE INTERCONNECTION OF PERIODONTITIS WITH ATHEROSCLEROSIS

S. Heta, I. Robo, D. Thereska, N. Alliu (Albania)

PP – TH – 031

SIGNIFICANCE OF F-CALPROTECTIN AND CRP DETERMINATION IN PATIENTS WITH

INFLAMMATORY DISEASE OF THE COLON AND IRRITABLE BOWEL SYNDROME

M. Gajović, J. Djordjević, S. Dragašević (Serbia)

PP – TH – 032**MARKERS OF INFLAMMATION IN EARLY DIAGNOSIS OF SYSTEMIC LUPUS ERYTHEMATOSUS**

N. Terzić Stanić, B. Stanić, N. Barhanović Gligorović, V. Nikolić, T. Antunović, I. Šestović-Milašević, I. Barać, J. Boljević (Montenegro)

PP – TH – 033**ERYTHROCYTE SEDIMENTATION RATE IN THE EVALUATION OF DISEASE ACTIVITY AND SEVERITY OF RHEUMATOID ARTHRITIS**

V. Duraj, A. Kollçaku, D. Ruci, A. Zoto, E. Memlika, M. Jordhani (Albania)

PP – TH – 034**IS THERE ASSOCIATION BETWEEN RHEUMATOID ARTHRITIS, CARDIOVASCULAR EVENTS AND DIABETES MELLITUS?**

D. Bartolovic, P. Ostojic, S. Stankovic (Serbia)

PP – TH – 035**THE ROLE OF SEROLOGY IN THE DIAGNOSTIC ALGORITHM OF CELIAC DISEASE**

Xh. Ceka, P. Paparisto, I. Ceka, M. Mulla, R. Palluci (Albania)

PP – TH – 036**NON-INVASIVE VENTILATION DECREASES THE BLOOD LEVEL OF PaCO₂, BUT INCREASES THE LEVELS OF PaO₂ AND SaO₂ IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ACUTE RESPIRATORY FAILURE**

E. Fype, O. Nuredini, M. Goga, A. Cuko, R. Kertoci, I. Skenduli, I. Ohri (Albania)

PP – TH – 037**BIOCHEMICAL AND CLINICAL BENEFITS OF NON-INVASIVE VENTILATION IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ACUTE RESPIRATORY FAILURE**

E. Fype, M. Goga, O. Nuredini, A. Cuko, R. Kertoci, I. Skenduli, I. Ohri (Albania)

• ONCOLOGY, TUMOR MARKERS**PP – TH – 038****PROMISING THERAPEUTIC TARGET OF PP2A AND THE EFFECT OF APOPTOSIS ON CML**

B. Ozel, S. Kipçak, Ç. Aktan, Ç. Biray avci, C. Gunduz, G. Saydam, N. Selvi Gunel (Turkey)

PP – TH – 039**SERUM KCNJ3 AND KCNK9 LEVELS IN BENIGN AND MALIGN BRAIN TUMORS**

N. Kılıç, S. Sarı, Z. Yıldırım, F. Dođulu, G. Kurt, N. Çeviker (Turkey)

PP – TH – 040**THE EFFECT ON ANGIOGENIC AND ANTIANGIOGENIC FACTORS OF TREATMENT IN NON-MUSCLE INVASIVE BLADDER CANCER**

G. Temeltaş, F. Kosova, O. Üçer, T. Müezzinođlu, Z. Arı (Turkey)

PP – TH – 041**PROGNOSTIC VALUE OF HAEMATOLOGICAL COUNTS AND TUMOR MARKERS IN PATIENTS WITH NON-SMALL CELL LUNG CANCER (NSCLC)**

N. Trajkovska, L. Angelovska, S. Todorova, T. Gruev, N. Gruev (Macedonia)

PP – TH– 042

CEA AND Ca 19-9 AS PROGNOSTIC INDEX IN COLORECTAL CANCER

N.Trajkovska, L. Angelovska, B. Chadinovska, S. Todorova, T. Gruev, N. Gruev (Macedonia)**• OXIDATIVE STRESS AND ANTIOXIDANTS****PP – TH – 043**

CELLULAR AND PLASMA LEVELS OF OXIDIZED PROTEINS AS A RISK FACTOR IN THE PROGRESSION OF ATHEROSCLEROSIS

D. Lazarova (Stevanoska), J. Dimitrova-Shumkovska (Macedonia)**PP – TH – 044**NUCLEIC ACIDS OXIDATIVE STRESS STATUS IN SJOGREN SYNDROME D.Tecer, R.Tural, A.Sepici Dincel, F. Gogus (Turkey)**PP – TH – 045**

GREEK MOUNTAIN TEA EXTRACT DECREASES OXIDATIVE STRESS AND DEMONSTRATE SIGNIFICANT HEALTH BENEFIT

C. Menexi, V. Psicha, F. Kondyli Sarika, E.Lymperaki (Greece)**• RENAL DISEASE****PP – TH – 046**

IMPACT OF DYSLIPIDEMIA ON CARDIOVASCULAR MORBIDITY AND MORTALITY IN DIALYSIS PATIENTS

A. Fico, M. Rroji, N. Spahia, S. Seferi, M. Barbullushi, N. Sinani (Albania)**PP – TH – 047**

LIPID METABOLISM DISORDER IN DIABETIC AND NONDIABETIC PATIENTS ON CHRONIC HEMODIALYSIS

V. Haxhibeqiri, V. Topçiu - Shufta, Sh. Haxhibeqiri, Sh. Veseli, M. Kutllovci, E. Myrtaj, B. Bislimi, S. Hadergjona, N. Budima, A. Lepaja, N. Bislimi (Kosova)**PP – TH – 048**

IS HYPERPHOSPHATEMIA A RISK FACTOR FOR ATHEROSCLEROSIS IN DIALYSIS PATIENTS?

M. Rroji, A. Fico, N. Spahia, S. Seferi, M. Barbullushi, N. Sinani (Albania)**PP – TH – 049**

THE INFLUENCE OF THE DURATION OF HEMODIALYSIS ON CALCIUM, PHOSPHORUS AND ALAKALINE PHOSPHATASE LEVEL

G. Begolli, L. Begolli, V. Topciu Shufta, Z. Gafuri Baruti, I. Rudhani, Sh. Sllamniku Syla, Sh. Thaci (Kosova)**PP – TH – 050**

SERUM HEPcidIN-25 LEVELS CORRELATION WITH HEMOGLOBIN, FERITIN AND IRON IN HEMODIALYSIS PATIENTS – A PILOT STUDY

M. Savković, S. Simić-Ogrizović, D. Čujić, V. Dopsaj (Serbia)**PP – TH – 051**TRANSFORMING GROWTH FACTOR- β 1 LEVELS IN PERITONEAL DIALYSIS EFFLUENTT. Brasanac, N. Jovanovic, R. Obrenovic, B. Stoimirovic (Serbia)

PP – TH – 052

HEPCIDIN AND HEMODIALYSIS PATIENTS IN OXIDATIVE STRESS

V. Manolov, D. Yonova, E. Vazelov, I. Georgieva, V. Vasilev, I. Trendafilov, V. Papazov, K. Tzatchev (Bulgaria)

PP – TH – 053

MARKERS OF INFLAMATION AND MORTALITY IN PATIENTS ON RENAL REPLACEMENT THERAPY

M. Çafka, M. Rroji, S. Seferi, J. Seiti, M. Gina, A. Beqaj (Lika), A. Goda (Albania)

PP – TH – 054

NUTRITIONAL STATUS OF HEMODIALYSIS PATIENTS: BIOCHEMICAL VERSUS ANTHROPOMETRIC NUTRITION INDICATORS

A. Gjyzari, D. Ylli, I. Gjyzari, A. Barbullushi (Albania)

PP – TH – 055

HEMATURIA IN AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE

A. Idrizi, D. Haxhiu, O. Qurku, M. Barbullushi, N. Spahia, E. Kaçulini, A. Koroshi, M. Dibra (Albania)

PP – TH – 056

BACTERIOLOGICAL FINDINGS OF URINARY TRACT INFECTIONS IN AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE

A. Idrizi, D. Haxhiu, O. Qurku, M. Barbullushi, M. Dibra, E. Bollek1, M. Rroji, N. Spahia, S. Seferi, A. Koroshi (Albania)

PP – TH – 057

HBV AND HCV SCREENING IN A TIMELY MANNER AMONG HAEMODIALYZED PATIENTS FROM NINE DIALYSIS UNITS IN REPUBLIC OF MACEDONIA DURING THE PERIOD 2014/2015

B. Chadinovska, L. Angelovska, T. Petrovska, Lj. Trpenoski, B. Toshanova, M. Nedelkoska, J. Usprcov (Macedonia)

• BONE METABOLISM, VITAMIN D**PP – F – 058**

OPG AND RANKL IN PATIENTS WITH THALASSEMIA MAJOR IN THE CENTER OF HEMOGLOBINOPATHY, LUSHNJA, ALBANIA

J. Zoga, E. Refatllari, D. Zeneli, A. Allkanjari, A. Zaka, A. Mema, E. Hoxhallari (Albania)

PP – F – 059

STUDY OF PARATHYROID HORMONE, TOTAL CALCIUM, PHOSPHOROUS, CREATININE AND UREA IN KOSOVAR PATIENTS UNDER REGULAR HAEMODIALYSIS

Z. Baruti-Gafurri, N. Budima, L. Begolli, V. Topçiu, H. Paçarizi, A. Krasniqi (Kosova)

PP – F – 060

CALCITRIOL APPLICATION IN PATIENTS WITH CHRONIC RENAL INSUFICIENCY. SECONDARY HYPERPARATHYROIDISM AND OSTEODYSTROPHY

M. Luma (Macedonia)

PP – F – 061

ASSOCIATION OF VITAMIN D LEVELS WITH MULTIPLE SCLEROSIS

B. Bislimi, N. Budima, N. Bislimi, S. Hadergjonaj, A. Lepaja, Sh. Veseli, V. Haxhibeqiri, M. Kutllovci (Kosova)

PP – F – 062

DETERMINATION OF VITAMIN D LEVEL IN DIFFERENT SEASONS IN BULGARIA

B. Pencheva, F. Ribarova, R. Mihajlov, V. Petrov (Bulgaria)**PP – F – 063**

DETERMINATION OF VITAMIN D

D.Kolarovska, M.Klashevaska, A.Radovski (Macedonia)**• ENDOCRINOLOGY, PREGNANCY****PP – F – 064**

NEWBORN SCREENING FOR CONGENITAL HYPOTHYROIDISM

Sh. Babuni, V. Mulliqi-Kotori, A. Kotori (Kosova)**PP – F – 065**

FOLLOWING THE SERUM LEVELS OF CREATINE KINASE IN OVERT AND SUBCLINICAL HYPOTHYROIDISM

M. Stanojkovic, A. Marinkovic, S. Madic, T. Djordjevic (Serbia)**PP – F – 066**

5ALPHA-REDUCTASE ACTIVITY IN INFANCY AND CHILDHOOD

E.Koliçi, Z.Ylli, N. Koliçi, D.Ylli, R.Kolpepaj, A.Ylli (Albania)**PP – F – 067**

ROLE OF 5 ALPHA-REDUCTASE DEFICIENCY IN DISORDERS OF SEX DEVELOPMENT (DSD)

E.Koliçi, Z.Ylli, N. Koliçi, D.Ylli, A.Ylli (Albania)**PP – F – 068**

POLYCYSTIC OVARY SYNDROME AND THE RELATION WITH 5ALPHA-REDUCTASE

E.Koliçi, Z.Ylli, N. Koliçi, D.Ylli, A.Ylli (Albania)**PP – F – 069**

DIHYDROTESTOSTERONE AND 5ALPHA -REDUCTASE IN HIRSUTISM

E.Koliçi, Z.Ylli, D.Ylli, R.Kolpepaj (Albania)**PP – F – 070**

NEW LABORATORY BIOMARKERS IN PREECLAMPSIA, OUR EXPERIENCE

A. Daka, A. Bulo, M. Barbullushi (Albania)**PP – F – 071**

COMPARISON OF TWO ESTRADIOL CHEMILUMINESCENT IMMUNOASSAYS AND EVALUATION OF THE CORRELATION BETWEEN SERUM ESTRADIOL AND ULTRASOUND

G. Cenni, V. Cerisano, L. Campagnoli, M. Cattoli (Italy)**• IMMUNOLOGY****PP – F – 072**

ACUTE PROMYELOCYTIC LEUKEMIA: THE DIAGNOSTIC VALUE OF MULTIPARAMETRIC FLOW CYTOMETRY IMMUNOPHENOTYPING

V. Semanaj, A. Perolla, T. Dedej, A. Barbullushi, P. Daja, T. Curaj, G. Sulcebe (Albania)

PP – F – 073

ANA POSITIVE, HOW IS USEFUL IN DIAGNOSIS OF DIFFERENT PATHOLOGIES

M. Kurti, Z. Ylli, G. Sulcebe (Albania)**• INFECTIOUS DISEASE****PP – F – 074**

BETA2-MICROGLOBULIN LEVEL IN HIV INFECTION; RELATION TO CD4 T-CELL AND PROGNOSIS

E. Lamaj, N. Marku, A. Krymi, P. Daja, T. Dedej (Albania)**PP – F – 075**

EFFECT OF ANTIRETROVIRAL THERAPY ON APOPROTEIN B LEVELS IN HIV/AIDS SUBJECTS IN ALBANIA

R. Kolpepaj, A. Nake, A. Harxhi, S. Xinxo, E. Kolici, M. Kallco (Albania)**PP – F – 076**

SEROPREVALENCE OF TOXOPLASMA GONDI, RUBELLA AND CYTOMEGALOVIRUS AMONG PREGNANT WOMEN

V. Durro, S. Novi, L. Fuga, B. Cullaj, Xh. Mekanaj, S. Saliasi, A. Koraqi (Albania)**PP – F – 077**

SEROPREVALENCE OF VIRAL HEPATITIS B IN PREGNANT WOMEN IN TIRANA DURING 2015

T. Sokoli-Imeraj, M. Basho, M. Sinjari, E. Pojaku, E. Kreka (Albania)**PP – F – 078**

SEROEPIDEMIOLOGY OF VIRAL HEPATITIS B

Xh. Ceka, P. Paparisto, V. Llajo, A. Limonaska, I. Ceka, R. Palluci, M. Mulla (Albania)**PP – F – 079**

TREND OF INFECTIONS TRANSMITTED BY BLOOD TRANSFUSION AMONG BLOOD DONORS

V. Durro, S. Novi, L. Fuga, P. Mersini, S. Saliasi (Albania)**PP – F – 080**THE PREVALENCE OF HBsAg AND Anti-HCV IN ALBANIA BLOOD DONORS S. Novi, P. Mersini,

S. Saliasi, V. Durro (Albania)

PP – F – 081

PROCALCITONIN CONCENTRATION SIGNIFICANT IN SYSTEMATIC BACTERIAL INFECTION AND SEPSIS

G. Spasic Obradovic, V. Milatovic (Serbia)**PP – F – 082**

HEMATOLOGIC CHANGES IN VISCERAL LEISHMANIASIS

R. Petrela, P. Daja, A. Deveja (Albania)**• MICROBIOLOGY****PP – F – 083**

INCIDENCE RATE AND ETIOLOGICAL AGENTS OF VENTILATOR ASSOCIATED PNEUMONIA IN THE PEDIATRIC CARE UNIT OF UNIVERSITY HOSPITAL CENTRE IN ALBANIA

G. Kasmi, I. Kasmi, L. Fuga, V. Mano (Albania)

PP – F – 084

SPUTUM AND BLOOD CELL PROFILE IN EXACERBATIONS OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (EACOPD)

J. Gjerazi, E. Tashi, E. Rapaj, T. Feleqi, I. Tashi, J. Daka, M. Hoxha, A. Daka, A. Bullo, R. Hasa, J. Bushati (Albania)

PP – F – 085

THE FIRST GLOBAL POINT PREVALENCE SURVEY OF ANTIMICROBIAL CONSUMPTION AND RESISTANCE (GLOBAL-PPS) IN ALBANIAN HOSPITALS

D. Lacej, E. Prifti, K. Deli, A. Koraqi (Albania)

PP – F – 086

PORTAGE OF ORGANISMS MULTIDRUG-RESISTANT IN UNIVERSITY HOSPITAL CENTRE "MOTHER TERESA"

D. Lacej, A. Koraqi (Albania)

PP – F – 087

THE IDENTIFICATION AND ANTIBIOTICO-RESISTENCE OF PATHOGENS OF URINARY TRACT INFECTIONS IN CITY OF TIRANA

B. Arapi, O. Petri, A. Koraqi, D. Lacej, L. Fuga, M. Uruçi (Albania)

PP – F – 088

THE LABORATORIC IDENTIFICATION OF GIARDIA LAMBLIA IN CHILDREN AGED 2-10 YEARS OLD IN THE DISTRICT OF TIRANA DURING 2014

B. Arapi, O. Petri, A. Koraqi, D. Lacej, T. Sokoli Ymeraj, M. Dibra, M. Uruçi (Albania)

PP – F – 089

DISTRIBUTION OF DIFFERENT STREPTOCOCCI SPECIES AND OTHER MICROORGANISMS IN ORAL CAVITY OF CHILDREN

S. Novj, S. Saliasi, F. Dema, V. Durro (Albania)

PP – F – 090

PREVALENCE OF UREAPLASMA UREALITICUM AMONG WOMEN OF REPRODUCTIVE AGE AND THE CORRELATION TO BACTERIAL VAGINOSIS

V. Mano, L. Fuga, K. Dhima, E. Bizbiqui, J. Ademi (Albania)

PP – F – 091

E.COLI AS A ZOONOTIC CAUSE OF URINARY TRACT INFECTIONS IN HUMAN

D.Lacej, R. Skendaj, V.Beca, B. Arapi, M. Dibra, A.Koraqi (Albania)

• QUALITY ASSESSMENT**PP – F – 092**

MEASUREMENT UNCERTAINTIES FOR SERUM ELECTROLYTES USING TOP-DOWN METHOD

G. Bosilkova, S. Cekovska, K. Tosheska-Trajkovska (Macedonia)

PP – F – 093

QUALITY INDICATORS IN A MIDDLE SCALE LABORATORY PRIOR IMPLEMENTATION OF LIS

M. Grozdovska Naumoska, Xh. Jusufi, S. Trojachanec Piponska, V. Poptasheva, S. Kuzmanovska (Macedonia)

PP – F – 094

PERFORMANCE VERIFICATION OF 15 ASSAYS RUN WITH ABBOTT ARCHITECT ci8200
L. Mino, E. Refatllari, N. Heta, I. Korita, A. Buló (Albania)

PP – F – 095

ESTIMATING MEASUREMENT UNCERTAINTY FOR TSH AND TOTAL PSA IN PEGASUS MED LABORATORY, ALBANIA
L. Mino, O. Lena, A. Buló (Albania)

PP – F – 096

ESTIMATING MEASUREMENT UNCERTAINTY FOR 13 CLINICAL CHEMISTRY ASSAYS IN PEGASUS MED LABORATORY, ALBANIA
L. Mino, O. Lena, A. Buló (Albania)

PP – F – 097

EXTERNAL QUALITY ASSESSMENT SCHEME (EQAS) ON HEMOSTASIS – OUR FIVE YEARS EXPERIENCE
E. Refatllari, I. Korita, N. Heta, A. Buló (Albania)

PP – F – 098

IDENTIFICATION OF THE PREANALYTICAL ERRORS IN THE HOSPITAL LABORATORY - 8 MONTHS STUDY
A. Marinkovic, M. Stanojkovic, L. Zvezdanovic, V. Cosic (Serbia)

PP – F – 099

PROBLEMS OF SAMPLES DURING PREANALYTICAL PHASE
B. Kalemaj, A. Nake (Albania)

• TECHNOLOGY, INSTRUMENTATION AND METHODS**PP – F – 100**

PREDICTION OF ACUTE ISCHEMIC STROKE FROM HEMATOLOGICAL AND BIOCHEMICAL PARAMETERS USING ARTIFICIAL INTELLIGENCE METHODS
G. S. Seydel, T. Ibrikci, I. Koç (Turkey)

PP – F – 101

EVALUATION OF A HEMOGLOBIN A1c METHOD ON ARCHITECT ci8200 ANALYZER
J. Coric, E. Kucukalic, M. Panjeta, J. Mujic (Bosnia and Herzegovina)

PP – F – 102

COMPARISON OF THREE IMMUNOASSAY FOR DETERMINATION OF CA 19-9 ANTIGEN IN HUMAN SERUM
N. Serdarevic, M. Panjeta, J. Coric (Bosnia and Herzegovina)

PP – F – 103

COMPARISON OF THREE METHODS FOR TOTAL AND FREE PSA MEASUREMENT
I. Dragašević, M. Dajak, N. Milinković, S. Ignjatović (Serbia)

PP – F – 104

COMPARATIVE STUDY OF SERUM CA 125 CONCENTRATIONS MEASURED BY TWO IMMUNOMETRIC ASSAYS (ECLIA AND ELFA) FOR THE DETECTION OF OVARIAN CANCER IN WOMEN
R. Mediu, E. Marku, N. Mediu (Albania)

PP – F – 105

DETERMINATION OF SERUM CREATININE BY LIQUID-CHROMATOGRAPHY-MASS SPECTROMETRY (LC-MS/MS)

M. Yildirime, A. Unlu, S. Abusoglu (Turkey)

PP – F – 106

EVALUATION OF SERUM DIGOXIN TEST IN ARCHITECT® I2000SR SYSTEM WITH AXSYM®

N. Serdarevic, A. Durak-Nalbantic, M.Kulić, M.Panjeta, J.Coric (Bosnia and Herzegovina)

• MOLECULAR BIOLOGY IN DIAGNOSIS**PP – F – 107**

CELL-FREE DNA: THE SEARCH OF PROGNOSTIC BIOMARKERS IN PROSTATE CANCER

T. Ozben, G. Ponti, A. Hanikoglu, E. Kucuksayan, M. Baykara, M. Maccaferri, M. Mandrioli, A. Tomasi (Turkey)

PP – F – 108

NEXT GENERATION SEQUENCING AND DETECTION OF COMMON MUTATIONS IN LUNG AND COLON CANCERS

G.S. Güleç Yilmaz, U. Görmüs, B.P.Yıldız Baki Ekçi, T. İsbir (Turkey)

• VARIA**PP – F – 109**

CURRENT SITUATION OF THE MEDICAL LABORATORY ORGANIZATION IN ALBANIA

S. Novj, P. Mersini, S. Saliasi, V. Xhafaj, V. Durro (Albania)

PP – F – 110

LABORATORY MONITORING OF BIOCHEMICALS CHANGES IN ANTIPSYCHOTICS AND ANTI-DEPRESSANT THERAPY

A. Prifti, E. Refatlari, V. Asabella, L. Zikaj (Albania)

PP – F – 111

A POINT PREVALENCE SURVEY OF ANTIBIOTIC USE IN A REGIONAL HOSPITAL IN ALBANIA

S. Bozo, A. Harxhi, A. Simaku (Albania)

PP – F – 112

ELECTROPHYSIOLOGICAL CHANGES IN ETHANOL-CARENCIAL NEUROPATHY WEAKLY CORRELATE WITH BLOOD TEST AND BIOCHEMICAL ALTERATIONS IN A SAMPLE OF 105 ALCOHOLICS

G. Vyshka, B. Cakani, D. Muzha (Albania)

PP – F – 113

THE EFFECT OF MALATHION ON SERUM CHOLINESTERASE, INSULIN AND TUMOUR NECROSIS FACTOR ALPHA

H. Pasaoglu, M. Ekremoglu, C. Severcan, O. T. Pasaoglu, B. Sen (Turkey)

PP – F – 114

TO TRANSFUSE OR NOT?-CASE PRESENTATION

A. Jano, A. Gjata, I. Ohri, R. Domi (Albania)

resistance (IR) and adipokines in adolescent population. In addition, to our knowledge, there are no studies examining the relationship between VAI and retinol-binding protein 4 (RBP4), a novel adipokine, closely related to IR. Therefore, we aimed to estimate this potential relationship between VAI and cardiometabolic markers in overweight/obese adolescent girls.

Methods: Seventy overweight/obese adolescent girls, mean age 17.6 ± 1.20 years, were included. Anthropometric and biochemical parameters, as well as blood pressure (BP) were measured. VAI was calculated.

Results: VAI correlated positively with fasting glucose ($r=0.369$, $p=0.002$), insulin ($r=0.458$, $p<0.001$), HOMA-IR ($r=0.476$, $p<0.001$), RBP4

($r=0.550$, $p<0.001$), systolic BP ($r=0.354$, $p=0.003$) and diastolic BP ($r=0.240$, $p=0.045$). These correlations were weaker between WC, BMI and BMI z-score, respectively, and IR markers: insulin ($r=0.354$, $p=0.003$, $r=0.176$, $p=0.146$, and $r=0.182$, $p=0.132$), HOMA-IR ($r=0.392$, $p<0.001$, $r=0.210$, $p<0.001$, and $r=0.221$, $p=0.066$), and RBP4 ($r=0.387$, $p<0.001$, $r=0.266$, $p=0.026$, and $r=0.270$, $p=0.024$). On the other hand, anthropometric markers correlated with systolic BP and diastolic BP, better than VAI.

Conclusion: VAI correlated with insulin resistance and RBP4, better than WC and BMI, in overweight/obese adolescent girls. VAI can be useful marker for metabolic disturbances in adolescent population.

PP – TH – 021

METABOLIC DISTURBANCES IN OBESITY

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Background: Sedentary lifestyle and readily availability of calorie dense foods lead to overweight and obesity, which are considered major health concerns of the modern world. Overweight and obese subjects are at high risk of cardiovascular diseases and type 2 diabetes.

Aim of the study: The aim of this study was to assess several parameters of metabolic health in overweight and obese subjects, with focus on early diagnostics of type 2 diabetes.

Patients and methods: 102 overweight or obese subjects (28 men and 74 women) were included in the study. Oral glucose tolerance test (oGTT), lipid status, body mass index (BMI), waist circumference (WC) and blood pressure were measured by standard methods. Glycated hemoglobin (HbA1c) was measured by immunoturbidimetric method.

Results: 13 men and 26 women were diagnosed with type 2 diabetes. Notably, HbA1c was proven as more sensitive than oGTT for early diagnostics of Diabetes mellitus (DM) in this population. Both men and women with DM tended to have higher WC and BMI than nondiabetics, but the difference was not statistically significant. The percentage of hypertensive subjects was higher among diabetics, both men and women, but the difference was also not statistically significant. In addition, overweight/obesity abolished the sex difference of HDL-cholesterol in both diabetics and nondiabetics. Finally, diabetic persons, both men and women, were slightly, but significantly older than nondiabetics, which highlights the importance of maintaining a healthy lifestyle in aging population.

Conclusions: Effective strategies for preserving metabolic health of overweight/obese persons are needed, especially in aging population.



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