31st Annual Meeting of the International Society of Blood Purification

Bologna (Italy)
12-14 September, 2013

President:
Prof. Antonio Santoro

Venue: Royal Hotel Carlton
Cover:
Terracotta low-relief - Bologna in the Middle Age with its towers.
President
Prof. Antonio Santoro
Nephrology, Dialysis and Hypertension Department
Azienda Ospedaliero-Universitaria di Bologna
Policlinico S. Orsola-Malpighi
Via P. Palagi, 9 - 40138 Bologna - Italy

Venue
Royal Hotel Carlton
Via Montebello, 8 - 40121 Bologna - Italy

ECM
For the Italian Participants: 31st Annual Meeting of the International Society of Blood Purification Program will be submitted for the Continuing Medical Education (ECM).
At the Meeting will be assigned nr. 7,5 credits.

Scientific Secretary
Elena Mancini
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Organizing Secretariat
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31st Annual Meeting of the International Society of Blood Purification

Bologna (Italy), 12-14 September, 2013

International Organizing Committee

Antonio Santoro, President

Tadao Akizawa, Rasheed Balogun, Andrew Davenport
Salvatore Di Giulio, Ingrid Ledebo, Lems Jerin,
Andre Kaplan, Hideki Kawanishi, Markus Ketteler
Claudio Ronco, Peter Stenvinkel
Yoshiaki Takemoto, Vladimir Tesar
Frank Van Der Sande
Tao Wang, Robert Zietse

Local Organizing Committee

Giovanni Cancarini
Giovambattista Capasso
Enrico Fiaccadori
Elena Mancini
Vincenzo Panichi
Ugo Teatini
The 31st Annual Congress of the International Society of Blood Purification will be held this year in Bologna, Italy on 12th, 13th and 14th September 2013.

As President of the Congress and on behalf of the International and Local Organising Committee I will be very happy to have you here in Bologna along with your accompanying family.

Bologna is a very welcoming medieval city filled with artistic and architectural resources, and it is variously known as the “learned one” and the “fat one”.

Culture and cuisine are indeed two characteristics aspects of this city. Its university, the Alma Mater Studiorum, founded in 1088, is the oldest in Europe. Its cuisine is tasty and special. Some dishes like “tagliatelle” and “tortellini” are renowned across the world. The long porticoes built next to the houses and spread across the historic centre for over thirty kilometres along with its twelve medieval gates, characterize the city making it quite unique in Italy. Furthermore, Bologna has the advantage of being situated in the heart if northern Italy, one hour by train from Milan and Venice and half an hour from Florence.

As regards the Congress, the scientific committee has paid great attention to innovation in the therapy and treatment of chronic renal disease. The speakers, all of great prestige starting from the President of the ISN, Prof. Giuseppe Remuzzi, and of the EDTA-ERA, Prof. Raymond Vanholder, hail from different parts of the world, the United States, Europe, Asia, etc. During the Congress issues will be discussed through a series of readings and round tables, issues that concern the alternative technologies in renal replacement therapy (portable artificial kidney, absorption techniques, new membranes, new solutions for peritoneal dialysis, etc.) and the therapeutic prospects in the treatment of renal pathology in the elderly with renal disorders and multiple co-morbidities. Arguments such as hemodynamic and arrhythmic complications in the course of renal replacement therapies will also be part of the scientific debate, along with the most recent technical and pharmacological solutions to avoid or at least mitigate them. Lastly, the subject of a dedicated round table will be the chapter on vascular accesses which will be analysed in depth starting from their implementation up to the phase of surveillance and repair of the complications, both medical and surgical.

We are counting very much on your active involvement to foster and exalt the clarification of the chosen scientific topics.

I hope to see you here in Bologna in September to enjoy a Congress that we hope will be of interest to you and to enjoy a pleasant happy city full of attractions.

Sincerely,

Prof. Antonio Santoro
President ISBP 2013
31st Annual Meeting of the International Society of Blood Purification

Bologna (Italy), 12-14 September, 2013

SCIENTIFIC PROGRAM

Thursday, September 12

12:00-14:00  Registration

14:00-16:00  Council Meeting

Chairs: A. Santoro, A. Davenport
Thursday, September 12

16:30-18:30  Plenary Room
Evening Seminar:
Co-sponsored by BBraun

NEW INSIGHTS INTO TODAY`S APPROACH TO DIALYSIS TREATMENTS
Chairs: R. Vanholder (Gent - Belgium), A. Santoro (Bologna - Italy)

Modern technologies and approaches for haemodialysis treatment improvements
J. Wagner, Chief Medical Officer B. Braun Avitum

New challenges in blood purification: deeper insights into protein-bound toxins
R. Vanholder (Gent - Belgium)

High Substitution volumes: the key to success?
P. Nicoud (Sallanches - France)

The role of citrate in dialysis concentrates: could it be the new standard?
E. Fiaccadori (Parma - Italy)
19:00-20:00 Welcome reception

20:30 Welcome Cocktail
Palazzo Pepoli

**Palazzo Pepoli**

**Museum of the History of Bologna**

Museum of the History of Bologna is located in Palazzo Pepoli, the ancient home of one of the most important families of Bologna during medieval times. The building was the result of numerous additions and architectural layers which began in the fourteenth century and ended only in 1723. Acquired in 2003 by the Fondazione Cassa di Risparmio in Bologna, it became a museum, restored by Mario Bellini and Italo Lupi.

Palazzo Pepoli is dedicated to a cultural itinerary to the history, culture and transformations of Bologna, from the Etruscan “Felsina” to our times. The various ups and downs of the local community are narrated in an innovative fashion using striking interactive display techniques that are largely unknown in our country. The splendid backdrop of the medieval building, reinvented, restored and set up by Mario Bellini, with the graphic design of the architect Italo Lupi, make a visit to the museum a unique experience.
Friday, September 13

08:30-09:00 Opening Remarks
A. Santoro (President of the ISBP Congress)
S. Venturi (General Director Azienda Ospedaliero-Universitaria di Bologna)
M. Lima (President of the Medical and Surgical Society of Bologna - Societas Medica Chirurugica Bononiensis)
G. Capasso (President of the Italian Society of Nephrology)
A. Davenport (President of the International Society of Blood Purification)

09:00-09:30 Lecture: “Hemolytic uremic syndrome: still plasma exchange? How and when?”
P. Ruggenenti (Bergamo - Italy)
Chair: G. Capasso (Naples - Italy)

09:30-09:45 Coffee break

09:45-12:15 Symposium I “How can we take care of elderly patients with renal failure”
Chairs: H. Kawanishi (Hiroshima - Japan)
F. Mallamaci (Reggio Calabria - Italy)

CKD5D, over 80s, multiple comorbidities: planning a non-dialysis management.
Formal and clinical aspects
A. Burns (London - UK)

Pulmonary congestion and heart failure in elderly dialysis patients
C. Zoccali (Reggio Calabria - Italy)
The effect of ageing on the response to erythropoietic agents in uraemia
I. Macdougall (London - UK)

CKD-MBD in the old dialysis patients: the clinical impact, the therapeutic possibilities
T. Akizawa (Showa - Japan)

Hyponatremia and mortality in the elderly: how innocent is the bystander?
R. Zietse (Rotterdam - Netherlands)

12:15-13:00 Award session
New insights in up-front therapy for multiple myeloma
M. Cavo (Bologna - Italy)
Chairs: I. Ledebo (Lund - Sweden), A. Santoro (Bologna - Italy)
Friday, September 13

13:00-14:45 Giove Room
Luncheon Symposium:
Co-sponsored by Bellco

“FILTRATION AND ADSORPTION THERAPIES AS NEW FRONTIERS OF BLOOD PURIFICATION”
Chairs: R. Bigazzi (Livorno - Italy), P.G. Bolasco (Cagliari - Italy)

The technologies behind the clinic
M. Atti

New purification horizons for chronic patients
P. Aljama

New insights in blood purification and myeloma kidney disease
S. Pasquali

Blood purification support therapies in septic shock: the case of CPFA
G. Berlot

CO₂ removal as support therapy in acute lung injury
A. Pesenti

Conclusion
A. Santoro
Friday, September 13

13:00-14:45 Plenary Room
Luncheon Lecture:
Co-sponsored by Baxter

**Intra-peritoneal versus systemic inflammation and survival in peritoneal dialysis: results from the global fluid study**

*M. Lambie* (Keele - UK)
Chair: *G. Garibotto* (Genova - Italy)

14:45-15:30 Plenary Room
Free communications

Chairs: *M. Mineshima* (Tokyo - Japan)  
*V. Panichi* (Lido Camaiore / LU - Italy)

**O01** Left Ventricular Mass Is A Powerful Risk Factor For All-Cause And Cardiovascular Death In End Stage Kidney Disease (EsKD) Patients On Dialysis But Does Not Contribute To Prognosis: An Analysis In Two European Cohorts

(1) Nephrology Unit, CNR-IBIM, Reggio Calabria, Italy. (2) Service d’Hémodialyse, Hôpital F.H. Manhès, Fleury-Mérogis, INSERM, Nancy, France

**O02** Dialysis Dependence After Severe Acute Kidney Injury: A Health Economics Analysis

*A. G. Schneider*, *O. Ethgen*, *J. A. Kellum*, *S. M. Bagshaw*, *R. Bellomo*
Med. Interne et Med. Intensive - Service de Medecine Intensive, CHUV, Lausanne, Switzerland

**O03** Safety and efficacy of a citrate-based protocol for sustained low-efficiency dialysis in acute kidney injury using standard dialysis equipment and anticoagulant citrate dextrose-formulation A (ACD-A)

*E. Fiaccadori*, *G. Regolisti*, *C. Cademartiri*, *E. Antonucci*, *S. Sabatino*, *U. Maggiore*
Unità Fisiopatologia Insufficienza Renale Acuta e Cronica, Università di Parma, Italia
O04 Cardiovascular Calcification In Hemodialysis Patients - A New Sodium Thiosulfate Dialysis Solution For Treatment Of The Problem

D. Yonova, E. Vazelov, I. Trendafilov, V. Papazov, S. Antonov

Dialysis Clinic, Medical University Hospital “Alexandrovska”, Medical University, Sofia, Bulgaria

**Giove Room**

**Free communications**

Chairs: C. Guastoni (Legnano / MI - Italy)  
G. Rombolà (Varese - Italy)

O05 Mortality Prediction In Hemodialysis Patients Based On Principal Component Analysis Of The T-Wave

C. Corsi (1), D. Steckiph (2), P.G. Bolasco (3), E. Mancini (4), A. Santoro (4), S. Severi (1).

(1) Department of Electrical, Electronic and Information Engineering “Guglielmo Marconi” University of Bologna, Cesena Italy. (2) Gambro-Hospal SpA, Bologna, Italy. (3) Nephrology and Dialysis Unit, ASL 8, Cagliari, Italy. (4) Nephrology, Dialysis, Hypertension, Policlinico S. Orsola-Malpighi, Bologna, Italy

O06 Snoring Is A Strong Amplifier Of The Risk By Heart Failure For All Cause And Cardiovascular (Cv) Mortality In Chronic Kidney Disease Patients On Dialysis (Stage 5d-Ckd)

C. Torino (1), G. D’Arrigo (1), M. Postorina (1), G. Tripepi (1), C. Zoccali (1), F. Mallamaci, (1), PROGREDIRE Work Group (2)

(1) Clin. Epid. and Physiopath. of Renal Dis. and Hypertens., CNR-IBIM, Reggio Calabria, Italy, (2) PROGREDIRE Work Group, Calabria and Sicilia Regions, Italy

O07 Oxidative Stress Response And Heme Oxygenase 1 (Ho-1) Expression In Huaecs: Uremic Versus Healthy Serum Conditions

K. Daenen (1), M. Hoylaerts (2), B. Bammens (1)

(1) Laboratory of Nephrology, KU Leuven, Belgium. (2) Molecular and Vascular Biology, KU Leuven, Belgium

O08 The Soglia Study: Blood Oxygen Saturation (So2) And Intradialytic Hypotension (Idh)

D. Ricci (1), E. Mancini (1), S. Severi (2), C. Perazzini (2), M. Grazia (1), L. Corazza (3), A. Santoro (1).

(1) Nephrology Dialysis Hypertension, Policlinico S. Orsola-Malpighi, Bologna, Italy; (2) HST-CIRI, Alma Mater Studiorum, University of Bologna, Bologna, Italy; (3) Bellco Srl, Mirandola, Modena, Italy
15:30-16:00  Coffee break

16:00-18:30  SYMPOSIUM II “Innovations in Blood Purification”
Chairs:  G. Cancarini (Brescia - Italy), Y. Takemoto (Osaka - Japan)

Contributions of innovative technology to the improvement of blood purification
D. Krieter (Würzburg - Germany)

Plasma Exchange and new apheretic treatments: is the former still necessary?
A.A. Kaplan (Farmington - USA)

New trends in Peritoneal Dialysis
B. Bammens (Leuven - Belgium)

Promises and risks with on-line prepared sterile fluids
I. Ledebo (Lund - Sweden)

Wearable Artificial Kidney: state of the art, time to first clinical trial
A. Davenport (London - UK)

18:30-19:30  Business Meeting
General Assembly
Saturday, September 14

**09:00-11:00** Symposiunm III “Prevention of dialysis-induced hypotension and cardiac arrhythmias”
Chairs: S. Bianchi (Livorno - Italy), U. Teatini (Bollate / MI - Italy)

Kinetic and hemodynamic modelling of dialysis to improve long-term outcomes: is this feasible for everyone?
J. Tattersall (Leeds - UK)

Dialysate and infusate: underestimated actors in hemodialysis and hemodiafiltration
F. Locatelli (Lecco / MI - Italy)

Calcium in dialysis: vascular pathology on one side, hemodynamic stability on the other
F.M. van der Sande (Maastricht - Netherlands)

The arrhythmia risk: an ever-present spectre. What can be of help?
S. Genovesi (Milano - Italy)

**11:00-11:30** Coffee break

**11:30-12:00** Lecture “Limitations to the adequacy of dialysis and its assessment”
R. Vanholder (Gent - Belgium)
Chairs: R. Balogun (Charlottesville - USA)
G. Marinangeli (Giulianova / TE - Italy)
12:00-13:00 Poster Session

Chairs: G. Battaglia (San Gregorio / CT - Italy)
       S. Pasquali (Reggio Emilia - Italy)

**P01** Vitamin-E-bonded polysulfone membrane prevent carbonylation of serum albumin and improve health-related quality of life in hemodialysis patients


(1) Fujita Health University School of Health Sciences. (2) Fujita Health University School of Medicine, Aichi, Japan

**P02** Evaluation of the affordance of a plasmapheresis device by using eye gaze data

S. Suzuki, T. Abe, H. Aoki, T. Akiba

Department of Clinical Engineering, Tokyo Women's Medical University, Tokyo, Japan

**P03** Improvement of work manual for blood purification using gaze point information

T. Abe (1), S. Suzuki (1), J. Murakami (1), M. Mineshima (1), T. Akiba (2), A. Miyamoto (3)

(1) Department of Clinical Engineering, Tokyo Women's Medical University, Japan. (2) Department of Blood Purification, Tokyo Women's Medical University, Japan. (3) Graduate School of Social and Cultural Studies, Nihon University, Japan

**P04** A Noninvasive Method To Assess Serum Potassium Concentration During Hemodialysis

C. Corsi (1), J. DeBie (2), E. Mambelli (3), D. Mortara (2), E. Mancini (3), A. Santoro (3), S. Severi (1-4)

(1) Department of Electrical, Electronic and Information Engineering “Guglielmo Marconi”, University of Bologna, Cesena, Italy. (2) Mortara Instrument Inc, Milwaukee, USA. (3) Nephrology Dialysis Hypertension, Policlinico S. Orsola-Malpighi, Bologna, Italy. (4) Health Science and Technology Interdepartmental Center for Industrial Research, University of Bologna, Cesena, Italy

**P05** A randomized control trial for the best dialyzer choice for elderly dialysis patients


(1) Yabuki Hospital. (2) E-HOPED-Study Group, Japan
P06  Plasma exchange for a hemolytic crisis due to mixed-type autoimmune hemolytic anemia associated with malignant lymphoma
(1) Division of Nephrology, Department of medicine, (2) Blood Transfusion Center, (3) Division of Hematology, Department of medicine, Mitsui Memorial Hospital, Japan

P07  Relation between Processed Plasma Volume and Actual Clearance during Double Filtration Plasmapheresis
N. Hanafusa, E. Noiri, O. Ichimura, H. Yamamoto, Y. Watanabe, M. Nangaku
Department of Hemodialysis and Apheresis, University of Tokyo

P08  Dialysis fluid managements of home hemodialysis
H. Kawanishi, M. Moriishi, S. Tsuchiya
Tsuchiya General Hospital, Hiroshima, Japan

P09  Improvement in Technology: evaluation of the biofeedback on TMP on two dialysis systems
G. Calabrese (1), A. Mazzotta (1), G. Vagelli (1), A. Bertucci (2), D. Steckiph (2), M. Gonella (1)
(1) Casale Monferrato’s hospital, Italy, (2) Gambro Hospal spa, Italy.

P10  Evaluation in the the middle term of citrate vs. acetate dialysate-reinfusate in on-line postdilution hdf (post-hdf
G. Calabrese (1), D. Mancuso (1), D. Steckiph (2), A. Bertucci (2), M. Petrarulo (3), C. Baldin (4), A. Mazzotta (1), G. Vagelli (1), M. Gonella (1)
(1) Renal Unit, ASL AL, Casale Monferrato, Italy, (2) Gambro-Hospal S.p.A., Bologna, Italy, (3) Renal Stones Lab., AO Mauriziano, Turin, Italy, (4) Biochemistry Lab. ASL AL, Casale Monferrato, Italy

P11  Recurrent paroxysmal atrial fibrillation in a haemodialysis patient: insights into atrial fibrillation onset mechanisms
P. Fabbriani (1), S. Severi (2), E. Passini (2), M. C. Luise (4), A. Vincenti (3), S. Genovesi (4)
**P12**  Double filtration plasmapheresis in treatment of renal graft rejection  
A. Zulkarnaev  
M.F Vladimirsy Moscow Regional Research Clinical Institute, Moscow, Russia

**P13**  Endotoxin adsorption in patients with sepsis after renal transplantation  
A. Zulkarnaev  
M.F Vladimirsy Moscow Regional Research Clinical Institute, Moscow, Russia

**P14**  Reducing The Ischemia/Reperfusion Injury Severity With Cytokines Adsorption  
A. Zulkarnaev  
M.F Vladimirsy Moscow Regional Research Clinical Institute, Moscow, Russia

**P15**  Coupled plasma filtration and adsorption in renal graft recipients with sepsis  
A. Zulkarnaev  
M.F Vladimirsy Moscow Regional Research Clinical Institute, Moscow, Russia

**P16**  Extracorporeal Photopheresis In Renal Transplantation  
A. Zulkarnaev  
M.F Vladimirsy Moscow Regional Research Clinical Institute, Moscow, Russia

**P17**  Long Term Maintenance Of Residual Renal Function In Hemodialysis Patients  
R. Rapanà, A. Zuccolà, A. Boneschi, C. Fantinati, P. Di Nicolò, S. Fiorenza, M. Mandreoli  
Nephrology and dialysis Unit AUSL Imola, Italy

**P18**  Intermittent Infusion Hemodiafiltration (I-Hdf) Using Ultrapure Dialysis Fluid By An Automated Dialysis Machine  
M. Mineshima, K. Eguchi  
Department of Clinical Engineering, Tokyo Women’s Medical University, Tokyo, Japan

**P19**  The Examination Of Ideal Method Of Reasonable Management Of Vascular Access In Japan  
A. Morisaki  
Department of Medical Engineering, Junshin Gakuen University - 1-1-1, Chikushigaoka, Minami-ku, Fukuoka, Japan
**P20** Sequential Treatment With Plasmaexchange And Eculizumab In A Pregnant Woman Affected By Atipical Haemolytic Uremic Syndrome


Unit of Nephrology and Dialysis AUSL Rimini, Unit of Immuno-Haemathology and Transfusional Medicine AUSL Rimini, Center for HUS Control, Prevention and Management, Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico Milan, Italy

**P21** Examination Of Phosphorus-Enriched Dialysate Preparation For Long-Term Hemodialysis

Y. Nishite, S. Takesawa, T. Furuzono

Kinki University - 930 Nishimitani, Kinokawa, Wakayama, Japan

**P22** Effects of two different regional citrate anticoagulation cvvh protocols on acid-base status and phosphate supplementation


(1) Nephrology and Dialysis and (2) Cardiac Surgery ICU,”Sapienza” University, Rome, Italy, (3) Pertini Hospital, Nephrology and Dialysis, Rome, Italy, (4) University of Parma Medical School, Nephrology and Dialysis, Italy

**P23** High cut-off hemodialysis improves Hb levels and leads to decreased hepcidin values in HD patients

G. Romei Longhena (1), W. Beck (2), A. Liebchen (2), U. Teatini (1)

(1) Bollate Hospital; AO Garbagnate M.se Milan Italy. (2) Gambro Dialysatoren GmbH, Hechingen, Germany

**P24** Can dialysis start with once weekly hdf help to preserve residual renal function (rrf)?

F.G. Casino, T. Lopez, M. Di Carlo, S.D. Mostacci, A. Sabato, C. Procida

Nephrology Unit, Matera, Italy

**P25** Effect Of Supplemental Oxygen Administration And Revolution Pump Speed For Deaeration On Partial Pressure Of Oxygen In Hemodialysis Circuit

Y. Tange, H. Migita, S. Yoshitake, S. Takesawa

Kyushu University of Health and Welfare - 1714-1 Yoshinomachi, Nobeoka, Miyazaki, Japan
P26  Is there any zinc deficit in patients with chronic renal failure on conservative and/or on peritoneal dialysis treatment
D. Yonova (1), E. Vazelov (1), I. Trendafilov (1), M. Georgiev (1), K. Tzatchev (2)
(1) Dialysis clinic, Centra, clinical laboratory, (2) Medical University Hospital “Aleksandrovskā”, Medical University, Sofia, Bulgaria

P27  Is There Any Significant Oxidative Stress In Hemodialysis Patients With Proved Secondary Hyperparathyroidism
Hemodialysis Clinic, Medical University Hospital "Alexandrovska", Medical University, Sofia, Bulgaria

P28  Chronic Renal Failure, Haemodialysis And Chronic Inflammation
D. Yonova (1), E. Vazelov (1), A. Tcakova (2), M. Georgiev (1), V. Papazov (1), I. Georgieva (1), V. Stamenova (1)
(1) Dialysis Clinic, (2) Central Clinical Laboratory, Medical University Hospital “Alexandrovska”, Medical University, Sofia, Bulgaria

P29  Iron Deicient Anaemia In Patients On Hemodialysis Treatment - The Use Of The Hepsidine For A Precise Diagnosis And Treatment
D. Yonova (1), E. Vazelov (1), I. Trendafilov (1), V. Manolov (2), B. Atanasova (2), V. Vasiliev (2), K. Tcatchev (2)
(1) Dialysis clinic, (2) Central Clinical Laboratory and Immunology, Medical University Hospital “Alexandrovska”, Medical University, Sofia, Bulgaria

P30  A new model of haemodialysis long-term catheter with double cuff
A. Bandera, P. Veniero, G. Brunori
Department of Nephrology and Dialysis, Trento, Italy

P31  Superhighflux Therapies For Hemodialysis: Ultrafiltrate Proteomic Profile And Protein Identification
M. Atti (1), A. Cuoghi (2), E. Bellei (2), S. Bergamini (2), E. Monari (2), G. Palladino (1), L. Corazza (1), M. Caiazzo (1), L. Sereni (1), A. Tomasi (2)
Scientific Affairs, Bellco S.r.l., Mirandola, Modena, Italy. (2) Dept. of Diagnostic, Clinical and Public Health Medicine, University of Modena and Reggio Emilia, Modena, Italy
P32 Proteomic Profile Of Retained Proteins From Hemodiafiltration With On-Line Endogenous Reinfusion (Hfr) Cartridge
(1) Scientific Affairs, Bellco S.r.l., Mirandola, Modena, Italy; (2) Nephrology and Dialysis, Civil Hospital Madonna del Soccorso, San Benedetto del Tronto, Ascoli Piceno, Italy, (3) Dept. of Diagnostic, Clinical and Public Health Medicine, University of Modena and Reggio Emilia, Modena, Modena, Italy

P33 Is time delivered treatment with cpfa crucial for the outcome of patients with septic shock? Report of a cluster of four cases of invasive meningococcal disease
V. Batini, A. Lucchesi, S. Sani, P. Roncucci, R. Bigazzi
U.O. Nefrologia Livorno, Italy

P34 Cases Of Amino Acid Movements Using Idpn
Y. Makka
Sapporo Social Insurance Hospital ME Section, 2-1 Atsubetsu-tyuo Atsubetsu-ku, Sapporo, Japan

P35 High Cut-Off Hemodiafiltration In Acute Myoglobinuric Kidney Injury
V. Premru, R. Ponikvar
Nephrology Dept., University Medical Centre Ljubljana, Slovenia

P36 Blood Flow Rate Dependencies Of Clearance And Integrated Value Of Urea Obtained From Waste Dialysate
M. Tahara (1), M. Ozaki (1), M. Nakagawa (1), S. Kawai (2), Y. Morimoto (1), Jun’ya Hori (1)
(1) Okayama University of Science, Okayama, Japan, (2) Kawai Clinic, Japan

P37 Relation Between Plasma Glucose, Glycated Hemoglobin And Glycated Albumin In Diabetic Patients On Hemodialysis
Y. Mori, A. Deguchi, K. Tokunaga, S. Takenouchi, Y. Mishige, A. Nakashima
Department of Nephrology, Imamura-Bunin Hospital - 11-22 Kamoikeshin-machi, Kagoshima, Japan
P38 Analysis Of Time-Dependence Of Urea Clearance During Dialysis Based On Pool Models
H. Monzaki (1), Y. Nagake (1), M. Ozaki (2), J. Hori, (2), T. Okabayashi (3), M. Nakagawa (2)
(1) Nagake Clinic, (2) Okayama University of Science, (3) Chiba Institute of Science, Japan

A. Surace (1), M. Pieri (1), P. Rovatti (1), D. Steckiph (2), E. Mancini (3), E. Mambelli (2), A. Chiocchini (3), A. Santoro (13)
(1) Gambro Dasco S.p.A., Modena, Italy; (2) Gambro Hospal S.p.A., Bologna, Italy; (3) Policlinico S.Orsola-Malpighi, Bologna, Italy

P40 Patient Heart Signal Extraction From Dialysis Session Pressure Data
P. Rovatti (1), E. Grandi (1), D. Stefani (1), M. Ruffo (1), K. Solem (2), B. Olde (2), V. Guadagno (3)
(1) Gambro Dasco SPA, R&D, Medolla (MO), Italy. (2) Gambro Lundia AB, Research, Lund, Sweden. (3) Policlinico Sant’Orsola-Malpighi, Nephrology, Bologna, Italy

P41 In Vitro Characterization Of High-Flux And High Cut-Off Membranes
M. Atti, L. Corazza, M. Caiazzo, L. Sereni, G. Palladino
Scientific Affair dept, Bellco S.r.l., Mirandola, Modena, Italy

P42 Dialysis Quantification In Non Critically Ill Patients With Acute Kidney Injury
F. Patena, S. Battistoni, F. Mattezzi, R.M. Fagugli
U.O. Nefrologia e Dialisi, Ospedale Santa Maria della Misericordia, Perugia, Italy

P43 Light Chain Removal By Means Of Adsorption In The Extracorporeal Treatment Of Myeloma-Induced Cast Nephropathy
D. Ricci (1), E. Mancini (1), M.G. Facchini (1), A. Zucchelli (1), R. Rizzo (2), G. Palladino (2), A. Santoro (1)
(1) Nefrologia Dialisi Ipertensione, Policlinico S.Orsola-Malpighi, Bologna, Italy. (2) Bellco Srl, Mirandola, Modena, Italy
P44 Can ion-exchange resin improve conductivity-based measure of sodium concentration during dialysis?
E. Mambelli (1), A. Tura (2), S. Sbrignadello (2), A. Santoro (1), G. Pacini (2)
(1) Nephrology Dialysis and Hypertension Unit, Policlinico S. Orsola-Malpighi, Bologna, Italy. (2) Institute of Biomedical Engineering, National Research Council, Padova, Italy

P45 A New Device To Improve The Management Of The Central Venous Hemodialysis Catheter
E. Mambelli, A. Zucchelli, R. Rizzo, C. Elia, V. Guadagno, A. Santoro
Nephrology, Dialysis Hypertension - Policlinico S. Orsola-Malpighi, Bologna, Italy

P46 A New Method For The Determination Of The Urea Reduction Ratio Based On A 2-Pool Model
T. Okabayashi (1), M. Ozaki, (2), Jun’ya Hori (2), M. Nakagawa (2)
(1) Chiba Institute of Science, (2) Okayama University of Science, Japan

P47 Influence of acetate free dialysis fluid on the progression of aortic arch calcification
S. Iko
Yabuki hospital - 1-6-17 Honcho, Yamagata, Japan

P48 Serum levels of procalcitonin are increased in asymptomatic patients in maintenance hemodialysis with permanent central venous catheters
W. De Simone (1), S. Borrelli (1-2), M.L. Wratten (3), G. Buonopane (4)
(1) Nephrology and Dialysis Unit “San Giuseppe Moscati” Hospital Avellino. (2) Department of Nephrology Second University of Naples. (3) Thermo Scientific Biomarkers Clinical Diagnostics. (4) Microbiology Unit of “San Giuseppe Moscati” Hospital Avellino, Italy

P49 PTFE Prosthetic fistula vs tunnelled cuffed catheter (TCC) survival: a single centre experience
M. Iorio (1), A. Scrivo (1), G. Cianciolo (1), G. La Manna (1), P. Rucci (2), M. Marchetti (2), M. Mirelli (3), R. Mauro (3), A. Stella (3), S. Stefoni (1)
(1) Nephrology, Dialysis and Transplantation Unit, S. Orsola University Hospital, Bologna. (2) Department of Biomedical and Neuromotor Sciences, Alma Mater Studiorum, University of Bologna, Italy. (3) Vascular Surgery Unit, S. Orsola University Hospital, Bologna

13:00-13:15 Poster Award
Saturday, September 14

13:15-15:00  Plenary Room
Luncheon Symposium:
Co-sponsored by Fresenius Medical Care

**DISCOVERING HV HDF:**
**VOLUME AND CARDIOPROTECTION**
Chair:  V. Panichi (Lido di Camaiore / LU - Italy)

*The evidence beyond the vision on HDF on line*
R. Greenwood (East and North Hertfordshire - NHS Trust Lister - Bedford General)

*The cardioprotective concept for HV HDF*
A. Martin Malo (Nephrology Unit, Reina Sofia University Hospital Córdoba - Spain)
Saturday, September 14

13:15-15:00  Giove Room
Luncheon Lecture:
Co-sponsored by Shire

THE CLINICAL MANAGEMENT OF HYPERPHOSPHATEMIA:
A RATIONAL FOR THERAPEUTICAL OPTIONS
M. Cozzolino (Milano - Italy)

15:00-16:00  Plenary Room
Free communications
Chairs: R. Bigazzi (Livorno - Italy), G. Viglino (Alba / CN - Italy)

O09  Heme oxygenase-1 (ho-1) (gt)n repeat promotor polymorphism distribution in peripheral artery disease (pad) patients: is the protective effect of ho-1 against atherosclerosis overruled by uremia?
K. Daenen (1), I. Fourneau (2), G. Opdenakker (3), M. Hoylaerts (4), B. Bammens (1)
(1) Laboratory of Nephrology, KU Leuven. (2) Vascular Surgery, KU Leuven. (3) Rega Institute, KU Leuven. (4) Molecular and Vascular Biology, KU Leuven - Belgium

O10  Atherosclerotic Plaque Characterization And Heme Oxygenase-1 Expression In Chronic Kidney Disease (Ckd): The ‘Vulnerable Plaque Phenotype’
K. Daenen (1), I. Fourneau (2), E. Verbeke (3), M. Hoylaerts (4), B. Bammens (1)
(1) Laboratory of Nephrology, Department of Immunology and Microbiology, KU Leuven. (2) Translational Cell & Tissue Research, Department of Imaging and Pathology, KU Leuven. (3) Vascular Surgery, Department of Cardiovascular Sciences, KU Leuven. (4) Molecular and Vascular Biology, Department of Cardiovascular Sciences, KU Leuven, Belgium
**O11** Citrate-Based Dialysis Buffers are more Biocompatible in Comparison to Standard Bicarbonate Buffers and Could Prevent the Progression of Dialysis Vasculopathy

G. Guido, R. Talarico, I. Serriello, R. Coppo, A. Amore
Nephrology Dialysis Transplantation Department, Regina Margherita University Children’s Hospital, Torino, Italy

**O12** Blood volume monitoring during hemodialysis (hd) by a non-invasive optical sensor

E. Mambelli (1), C. Perazzini (2), A. Visotti (3), I.M. Selle Malagola (4), S. Severi (2-3), M. Grazia (1), E. Mancini (1), A. Santoro (1)
(1) Nephrology, Dialysis and Hypertension, Policlinico S. Orsola-Malpighi, Bologna. (2) Health Sciences & Technologies Interdepartmental Center for Industrial Research, University of Bologna, Cesena, Italy. (3) Department of Electrical, Electronic and Information Engineering “Guglielmo Marconi” University of Bologna, Cesena Italy. (4) Bellico Srl, Mirandola, Italy

**O13** High-Volume Post-dilution Online Hemodiafiltration (HV-HDF) with a Polyacrylonitril membrane grafted with heparin (HeprAN) using different anticoagulant schedules

Nephrology, Ospedali Riuniti, Ancona, Italy

16:00-18:00 **Symposium IV “Technical and clinical barriers to implementing an optimal case mix of vascular access”**

Chairs: S. Di Giulio (Rome - Italy), S. Stefoni (Bologna - Italy)

**Preoperative evaluation in vascular access: challenge from case mix**

M. Malovrh (Ljubljana - Slovenia)

**Computational modeling and vascular access in hemodialysis**

A. Remuzzi (Bergamo - Italy)
Planning long term vascular access
J. Tordoir (Maastricht - Netherlands)

Emerging problems and strategies in catheter-related infections
P.L. Viale (Bologna - Italy)

18:00-18:15 Closing remarks
A. Davenport (London - UK), A. Santoro (Bologna - Italy)

18:15-19:00 Farewell Cocktail
### SPEAKERS / CHAIRS

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
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<tr>
<td>TADAO Akizawa</td>
<td>Showa, Japan</td>
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<td>RASHEED Balogun</td>
<td>Charlottesville, USA</td>
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<td>BERT Bammens</td>
<td>Leuven, Belgium</td>
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<td>GIOVANNI GIORGIO Battaglia</td>
<td>San Gregorio / CT, Italy</td>
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<td>STEFANO Bianchi</td>
<td>Livorno, Italy</td>
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<td>ROBERTO Bigazzi</td>
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<td>AINE Burns</td>
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<td>ANDREW Davenport</td>
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<td>SALVATORE Di Giulio</td>
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<td>SIMONETTA Genovesi</td>
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<td>CARLO Guastoni</td>
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<td>ANDRE A Kaplan</td>
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<td>HIKEKI Kawanishi</td>
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<td>MARKO Malovrh</td>
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<td>VINCENZO Panichi</td>
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<td>SONIA Pasquali</td>
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<td>ANDREA Remuzzi</td>
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<td>RAYMOND Vanholder</td>
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<td>ROBERT Zietse</td>
<td>Rotterdam, Netherlands</td>
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<td>CARMINE Zoccali</td>
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**SCIENTIFIC INFORMATION**

**Sessions**  
The Scientific Program will include several types of Sessions related to the Congress main topics:
- Symposia
- Free Communications
- Poster presentation
- Evening Seminar
- Luncheon Seminars

**Free Communications**  
Free Communications will be included in the Program.  
Time allowed to each presentation will be 7 minutes, followed by 3 minutes discussion.

**Posters**  
Accepted Posters will be discussed in special Sessions. Details on Poster format and presentation will be given together with acceptance letters.

**Evening Seminar**  
An Evening Seminar, co-sponsored by BBraun, will take place on Thursday, September 12th, from 16:30 to 18:30.

**Luncheon Seminars and Lectures**  
On Friday September 13th and on Saturday September 14th, there will be several Luncheon Seminars and Lectures promoted and organized by qualified Companies, from 13:00 to 15:00. Lunch (buffet or box lunch) will be available.
**Slide Center**

Only PC data projection will be available during the Congress. Slide projection will not be provided. Each room will be equipped with a laptop.

Therefore, the use of personal laptop will not be allowed. Files must be prepared in Power Point. It is essential, for the smooth running of the Sessions, that all the Speakers hand in their presentations in due time.

**Internet Access**

Business Center is located on the ground floor of the Venue (payment for).

Wireless LAN is available.

**Photo and Video Policy**

Photo, Video and Recording is not permitted without permission.

**Language**

The official language of the Congress will be English.

**Awards**

The best abstract and the 4 best posters will receive an award.
GENERAL INFORMATION

Website

Venue
The 31st Annual Meeting of the International Society of Blood Purification and the associated Trade Exhibition, will be held at the Royal Carlton Hotel in Bologna, Via Montebello, 8, located in the city-center.

By Plan: The Airport is about 6 Km far from Bologna city centre. “Gugliemo Marconi” Airport is linked by national and international flights (low cost included) to London, Paris, Barcelona, Madrid, Amsterdam, Brussels, Koeln, Frankfurt, and many other. A regular bus (Aerobus service) connects airport to the downtown and the railway station. The ticket costs € 4.50 and can be purchased directly on bus. Bus stop at the airport is just outside the arrival terminal. Bus stop “Via Indipendenza – Arena del Sole” is the nearest stop for Royal Carlton Hotel (Venue).

By Train: Bologna is the main Italian railway junction and therefore all the most important national and international lines pass through it. InterCity trains and EuroStar high speed trains connect it to all the major Italian cities. Trains link Bologna with Germany, France and Austria; in particular from Bonn, Koeln, Amsterdam, Paris and Vienna there are direct night trains.

For French: TGV arrives in Torino and Milano, where you can have direct coincidence with the EuroStar to Bologna (Railway Station).

Bologna railway station is walking distance from the Royal Carlton Hotel (300 mt – 5 minutes walking).

Parking: Bologna City Centre is closed to private cars from 8 a.m. to 8 p.m. every day, including Sundays and Public Holiday. To have access to hotels and B&B located inside the ZTL area, hotel management has to inform “Office of the Traffic and Transport Department” – of the guest.
number plates within 48 hours from their arrival. Number plates will be included in the authorized list for ZTL access. Guests can provide themselves with a special combined P+BUS Ticket at € 7,00 (a daily ticket park) in all the paying parking areas (blu lines), either in the town centre or in the outskirts and a daily bus ticket valid for one person. Pass is valid 24 hours starting from the convalidation hour and has to show: – car plate (on behalf of the guest); – hotel identifying stamp with the date and hour (on behalf of the hotel).

Fees
ISBP MEMBERS € 325,00
NON MEMBERS € 370,00
RESIDENTS/STUDENTS/NON-PHYSICIAN € 100,00

Payment procedures
Payment of the Registration Fee must be made in Euro to the Organizing Secretariat, New OMNIA Meeting & Congressi Srl, in the following forms:
• Wire Transfer
• Credit Card
• Cash
American Express, VISA/Mastercard and Diners International are accepted.
The organization charges your card and send regular invoice. At any credit card payment will be charged € 10,00 VAT included

The Registration Fee for members, non-members includes all the following items:
• Opening Ceremony
• Welcome Cocktail on September 12 (Palazzo Pepoli)
• Badge, Congress bag and Program
• Access to the Lecture Halls
• Farewell Cocktail on September 14 (Venue)
• Certificate of attendance
Refunds
No refunds for cancellation received after August 23, 2013.

Conference Center Facilities and Services
During the meeting hours the following facilities will be available in the Congress Area:
• Registration Desk
• Trade Exhibition
• ISBP Desk
• Slide Center

Secretariat Hours
Thursday September 12 • 12.00 - 20.00
Friday September 13 • 8.00 - 19.30
Saturday September 14 • 8.00 - 18.30

Trade Exhibition
A Trade Exhibition will be held during the Congress, located in the Exhibition Area of the Venue (1° floor) and it will be open every day of the Congress. Companies requiring any kind of information (participation, cost, entry forms, etc.) concerning Trade Exhibition may contact:

New OMNIA Meeting & Congressi Srl
Via Torino, 29 - I 00184 Roma
Tel +39 6 4871366 - Fax +39 6 4815339
cpetta@newomniameeting.com
HOTEL ACCOMODATION

A block rooms has been reserved at the Royal Carlton Hotel (Venue) for conference participants. Please send request to: New OMNIA Meeting & Congressi Srl - Via Torino, 29 - 00184 Roma - Italy, by fax +39.06.4815339 Contact person: Cristiana Petta e-mail cpetta@newomiameeting.com

Rates
Royal Carlton Hotel, Congress Venue
Double room for single use:  € 149,00
Double room:  € 169,00
Price per room per night, breakfast included

The tourist tax is established in accordance with the article 4 of Legislative Decree 23 of 14 March 2011.
The tax is paid for each night (or per person per night) in hotels located in Bologna, up to a maximum of 7 consecutive nights – Royal Carlton has a tax of € 2,50 per night per person.

In order to confirm the reservation we need the details of your credit card. The full payment shall anyway be made directly in the hotel. In case of “no show” all nights will be charged on the card.
A written confirmation will be sent to you within a few days after receiving the registration form properly filled out. Any changes of the original reservation have to be immediately communicated to New OMNIA Meeting & Congressi srl by sending an e-mail: cpetta@newomiameeting.com
VENUE GROUND FLOOR

Glove Room

Entrance

Reception

Bar

Restaurant
Organizing Secretariat and CME Provider

Ufficio Roma
New OMNIA Meeting & Congressi Srl
Via Torino, 29 - 00184 Roma
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Ufficio Milano
New OMNIA Meeting & Congressi Srl
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