

5th International Fluid Academy Days November 26–28, 2015, Hilton Congress Centre, Antwerp, Belgium

At each International Fluid Academy Day a selected group of world-experts is invited to keep the participants up-to-date with regard to fluid management and hemodynamic monitoring. Below is an alphabetical list of speakers for the International Fluid Academy Days (IFAD), the Course on Acute Care Ultrasound (CACU) and the NURSING session with the ICU quiz. For each speaker a short bioprofile is given and a contact e-mail address should you wish to get in touch with him/her.

Annane Djillali
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Djillali Annane was appointed Professor of Medicine: Critical Care Medicine at the University of Paris in 1996 having completed his PhD in Pharmacology in 1995 and MD in 1991. Professor Annane also has Specialist Qualifications in Intensive Care Medicine, Cardiology, Internal Medicine, Statistics and Pharmacology. Professor Annane is the Director of the 36-bed intensive care unit at Raymond Poincaré, Assistance Publique Hôpitaux de Paris (APHP) which is the premiere tertiary care hospital in France. He is Chief Counsellor of the Minister of Health for medical education and research, Dean of the School of Medicine at University of Versailles Saint Quentin and was President of the French Society of Intensive Care (SRLF) from 2011 to 2013. Professor Annane's main research interests are the pathophysiology and management of septic shock and he has been involved as the coordinator / principal investigator of several large multi-national randomized controlled trials. He has published more than 300 peer-reviewed articles.

Asehnoue Karim
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Karim Asehnoue got his degree as MD in 1999 At University René Descartes Paris, France. After completing his PhD in immunology in 2001, he spent one year in the lab of Edward Abraham in Denver, USA (2002). He was appointed Professor of Anaesthesiology and Critical Care Medicine in the University of Nantes in 2009. Professor Asehnoue is

the head of the Anaesthesiology department of Hospital Hotel-Dieu, and the director of the 30-bed surgical Intensive Care Unit at the University hospital of Nantes, France. He is currently member of the scientific committee of the French Society of Anaesthesiology and Critical Care Medicine, and the director of a French network of ICUs (www.ATLANREA.org). Professor Asehnoue was involved as the coordinator of several multi-centre trials, and he is the director of a lab dedicated to the study of host-pathogen interactions (<http://www.ea3826.univ-nantes.fr/>). His main focuses of interests are pulmonary complications, and immunodepression-induced pneumonia after brain injuries. He has published more than 130 peer-reviewed articles.

Baar Ingrid
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Ingrid Baar is Senior staff member intensive care at the University Hospital in Antwerp, Belgium. She is a qualified neurologist and specialized in neuro-intensive care. Ingrid Baar leads the consultation for patients with cerebrovascular diseases. She coordinates the diagnosis and care of a team of specialists also known as the 'stroke team'. The team works according to pre-established protocols that are adapted to the individual needs of patients with transient ischemic attack (TIA) or stroke.

Blot Stijn
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Stijn graduated as nurse, and continued his studies with a master degree and a PhD. He is a research professor at Ghent University with a main, but not exclusive, focus on prevention and clinical epidemiology of healthcare-associated complications in critically ill patients such as life-threatening infections (sepsis) and pressure ulcers. He has a unique curriculum through his varied background combining nursing and midwifery, nursing sciences, a post-academic teaching degree, and a PhD in medical sciences. This exceptional background allows bridging distinct disciplines and interpreting clinical data in an exclusive way. Through epidemiological insights awareness for specific nosocomial hazards is raised or new hypotheses generated. Stijn prefers proposing suggestions to optimize processes of care that are evidence-based. If solid scientific data are lacking, however, recommendations are to be proposed on basis of current clinical insights and common sense. Over the past 15 years his multidisciplinary approach resulted in a substantial number of scientific publications in top-ranking journals in a broad variety of 'Web of Science' subject categories (critical care, infectious diseases, microbiology, pharmacology, respiratory system, surgery, pediatrics, nursing, ...). Stijn is a frequent speaker at the international stage where he always brings straightforward messages, carefully fine-tuned to the background of the target audience. Finally, he succeeded to consolidate a solid reputation in intensive care research and established a firm international network of collaborators encompassing nurses, intensivists, ID specialists, physiotherapists, dental surgeons, clinical pharmacologists and microbiologists. Since 2014 he is also Honorary professor at the Burns Trauma and Critical Care Research Centre at the University of Queensland in Brisbane, Australia. Stijn is Chair of the section on Nursing and Allied Health Care Professionals of the European Society of Intensive Care Medicine. He received many clinical and scientific prize awards, the last being the "Prince Sultan Cardiac Center Award, 2012" for outstanding achievements in critical care nursing. Al Qassim, Saudi Arabia, Dec. 5, 2012.

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Kurt obtained a bachelor degree followed by a master in nursing. He was the head nurse of the nephrology gastroenterology department in the AZ Nikolaas in Belgium from 1997 till 2000. Since 2000 he is nutrition nurse specialist and Coordinator of the Nutrition Support Team at the same hospital. In the past 15 years he had the opportunity to get fully involved in the interesting field of clinical nutrition and metabolism. He loves to do his job on the workforce in a multidisciplinary way. Getting more qualified and certified he could expand his professional network and currently he is in contact with many distinguished clinical nutrition experts in Europe. He also gets more and more involved in the European Society for Enteral and Parenteral Nutrition (ESPEN) currently as a LLL-teacher, congress speaker (Leipzig 2013, Geneva 2014, Lisbon 2015) and member of the ECPC (Educational and clinical practice committee). Together with a few other board members, his key responsibility is to prepare the content and the speakers of the educational sessions for the upcoming ESPEN congresses until 2018.

Caironi Pietro
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Dr Pietro Caironi is an associate professor at the faculty of medicine, department of anaesthesia and critical care, at the University of Milan, Italy. He graduated with honors from the University of Milan, Italy in 2000 and achieved the same highest level of distinction in his residency program in anaesthesia and critical care in 2004. He did his internship in medicine, anaesthesia and critical care at the University of Milan and was also a research fellow at the Massachusetts general hospital, Harvard medical school, Boston, USA. In particular he has been awarded as a finalist of the Courmand and Comroe Young Investigator Award within cardiopulmonary and critical care council of the American Heart Association in 2004 and in 2008 he has received the ECCRN Clinical research Award of the European Society of Intensive Care Medicine. He has more than 41 publications, 17 book chapters, 55 abstracts and 17 proceedings to his credit. He holds various teaching activities in the University of Milan and also sits in the Editorial Board of *Minerva Anesthesiologica* and as reviewer for *Intensive Care Medicine*, *American Journal of Respiratory and Critical Care Medicine*, *Minerva Anesthesiologica* and *Blood Transfusion*. Assoc. Prof Caironi's main research interest is in the area of lung physiology and acute respiratory failure, sepsis, urinary electrolytes and renal function and fluid therapy.

Cecconi Maurizio
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Dr Cecconi graduated from both the University of Udine's (Italy) School of Medicine and Surgery and the School of Anaesthesia and Intensive Care (2002). During his training he won a grant for young investigators from the Italian Society of Anaesthesia, Analgesia and Intensive Care (SIAARTI) that allowed him to become a visiting fellow at St George's Hospital where he studied perioperative haemodynamic optimisation of the high risk surgical patient. While there, he completed a doctoral degree (Doctor of Medicine) at the University of London on the evaluation of novel techniques for measuring cardiac output in critically ill patients. After completion of his training he worked as a Consultant in Italy for two years, before getting a Consultant job in Anaesthesia and Intensive Care at St George's, where he has been working since Maurizio Cecconi has a high interest in research. He is the author of more than 100 publications (articles, abstracts, book chapters) and he has participated as a speaker at several national and international meetings. His main fields of

research are haemodynamic monitoring, haemodynamic optimisation, physiology of the critically ill patient. Maurizio Cecconi serves as Chair of ESICM's Cardiovascular Dynamics section.

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Dr Chiumello holds position at the dipartimento di anestesia e terapia intensiva, Fondazione IRCCS Cà Granda Ospedale Maggiore Milano. Educational Background: Davide Chiumello MD is an Intensivist at Fondazione IRCCS – Ca' Granda Ospedale Maggiore Policlinico di Milano, Dipartimento di Anestesia, Rianimazione e Terapia del Dolore. He received his medical degree from the University of Milan (Italy) in 1995. In 1996 he moved to Canada for a research fellowship at the department of Pneumology (Director Prof. A.S. Slutsky, Mount Sinai Hospital, Toronto, Canada) on the pathophysiology of ventilator-induced lung injury. Work Experience: Dr Chiumello's investigative work has always concentrated in understanding the pathological and clinical aspects of acute respiratory distress syndrome, with particular interest in respiratory physiology, esophageal pressure, lung recruitment, lung imaging, ventilator induce lung injury, prone position, controlled and assisted mechanical ventilation, non invasive ventilation and lung imaging. Since 2009 until now he has worked as Editor in Chief of *Minerva Anestesiologica* (official journal of Società Italiana di Anestesia, Anestesia e Terapia Intensiva). Since 2011 he is member of the Editorial Board of the *Critical Care Medicine* (official journal of Society of Critical Care Medicine). He is also reviewer for several international Journals and Editor of the Respiratory Failure section for the PACT (Patient Centred Acute Care Training) of the European Society of Intensive Care Medicine since 2013. He is author of more than 100 scientific articles and several book chapter's in medical textbooks.

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After completing her residency in general and abdominal surgery, Inneke De laet chose to start a fellowship in critical care medicine at the University Hospital Ghent (Belgium) where she met Jan De Waele and started doing research on intra-abdominal hypertension and abdominal compartment syndrome. She feels that the gut and the abdominal organs are underestimated as both cause and consequence of morbidity and mortality in critically ill patients, and is dedicated

to contribute to a better understanding of this complex and interesting part of human anatomy and physiology. She is currently working as a critical care consultant in Stuijvenberg Hospital Antwerp (Belgium) with Manu Malbrain and previously also at the University Hospital Ghent. Her special interests include the influence of IAP on kidney function and surgical infectious diseases. Inneke is involved in hospital administration and in scientific research concerning the abdominal compartment as related to fluid balance and kidney function.

De Paep Rudi
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Rudi De Paep is an anesthetist-intensivist working at the ICU Department of the University Hospitals in Antwerp (UZA), Belgium. The intensive care in the UZA consists of five units and Rudi De Paep works in intensive care unit 1, where mainly patients who have undergone a heart operation are treated. Rudi De Paep has a basic training as anesthesiologist, but he gradually got more and more interested in intensive care. After his specialization as anesthetist he could start working on the intensive care unit of the UZA, where he is a staff member since 1993.

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Erik De Vadder was born in Antwerp, 06.06.1973. Since 1996 he works as nurse on the emergency department at the ZNA Jan Palfijn hospital, in Antwerp, Belgium. He obtained the special degree and professional Emergency – ICU title. He is official ERC (European Resuscitation Council) Basic Life Support/AED-instructor and Advanced Life Support-provider. He is teacher at the AP (Artesis Plantijn) College, Antwerp and he is member of the B-FAST (Belgium First Aid and Support Team). As a side job he is an independent instructor at MCT (Medical Care Training, www.medicalcaretraining.be)

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Paul WG Elbers, MD, PhD (1975) is an intensivist at VU medical center, Amsterdam, The Netherlands. Special interests include quantitative acid base analysis, fluid therapy, ultrasound, pharmacokinetics, medical information technology, and the human microcirculation. The latter was the topic of his PhD thesis entitled "Focus on Flow, Imaging the Human Microcirculation in Perioperative and Intensive Care Medicine". Together with Prof. John A Kellum he edited the second edition of "Stewart's Textbook of Acid-Base". Together with Rainer Gatz, MD, he is the editor of www.acidbase.org, an online community for quantitative acid base analysis including clinical decision support tools.

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Gattinoni is currently professor of anesthesiology and intensive care medicine and chairman of the department of anesthesiology and intensive care at the University of Milan in Italy. He also is chief of the department of anesthesia, resuscitation and pain therapy at Policlinico Hospital of Milan. Gattinoni is the author or coauthor of more than 200 research articles and reviews, Gattinoni has led numerous cooperative investigative trials, some of which have been published in the British Medical Journal, the Journal of the American Medical Association, and published in The New England Journal of Medicine and other prestigious medical journals around the world. In addition to treatment of acute respiratory failure and respiratory physiopathology, his research interests range from parenteral nutrition and metabolic therapy and acid-base equilibrium to organization of intensive care units, cost-benefit analysis and prognostic indices. The former editor in chief of *Minerva Anestesiologica*, Gattinoni serves on the editorial boards of *Anestesia*, *Rianimazione e Terapia Intensiva*, *Critical Care*, *Respiratory Care* and the Italian version of *CHEST*. Gattinoni is active in a number of professional societies and was the previous president of the World Federation of Societies of Intensive and Critical Care Medicine and the past-president of the Italian National Society of Anaesthesia, Analgesia, Resuscitation and Intensive Care. He is a founding member of the European Society of Intensive Care Medicine, where he is a past-president and a member of the society's executive committee. A Fellow of the Royal College of Physicians and Surgeons, Gattinoni has been awarded honorary membership in the German Society of Anesthesiology and Intensive Care and is a recipient of the American Society of Anesthesiology's and SCCM Lifetime Achievement Award.

Born near Milan, Italy, Gattinoni completed an internship at the Institute of Clinical Medicine II, University of Milan and received his medical degree cum laude, with the thesis "Aminoglutetimide in Cushing Syndrome" in 1969. Following medical school, Gattinoni served as a Lieutenant in the Alps Corp of the Italian Army. He also has a diploma in public health medicine and board certifications in anesthesiology and laboratory medicine.

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Diederik Gommers achieved his Ph.D., Erasmus MC, Rotterdam, on 9 December 1998 with his dissertation entitled "Factors affecting surfactant responsiveness." Promotor: Prof. Dr B. Lachmann. Medical Doctor, Erasmus MC Rotterdam, March 1996. Anesthesiologist, Erasmus MC Rotterdam, October 2003
Instructor: Prof. Dr. J. Klein. Intensivist, AMC University Amsterdam, March 2005
Instructor: Prof. Dr. M.B. Vroom.
Chronological professional experience: 2003-2005 Trauma-physician Helicopter-MMT (Medical Mobil Team), Erasmus MC. 2003-2006 Physician Anesthesiology, Erasmus MC. 2005-2006 Physician Intensive Care, Erasmus MC. 2006-2013 Vice-chairman department of ICU-adults, Erasmus MC. 2010-2013 Instructor in Intensive Care Medicine, Erasmus MC. 2013-today Chairman of department of ICU-adults, Erasmus MC. His major research topics are mechanical ventilation, ECMO and light-sedation practice in the ICU with over 100 publications.

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Robert Hahn was as a full-time clinical anaesthetist between 1979 and 1993 and then turned to academics. He served as professor of anaesthesia & intensive care at Karolinska institutet in Stockholm between 1997 and 2006 and thereafter became Research Director at Södertälje Hospital with part-time professorship at Linköping University. Professor Hahn's favourite topics have been physiology and monitoring of fluid overload in transurethral surgery and kinetic modelling of infusion fluids. With a methodological interest, his current research also includes the development and evaluation of clinically useful methods of monitoring fluid therapy and the detection of preoperative dehydration. Robert Hahn has supervised 20 PhD programs and authored more than 300 scientific papers. He has edited two books about fluid therapy, the most recent being "Clinical Fluid Therapy in the Peri-

operative Setting" (Cambridge University Press, 2011) with contributions from 20 prominent international experts. E-mail: r.hahn@telia.com

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Dirk Himpe graduated at the Catholic University of Leuven (KUL) Medical School where he was awarded Doctor in de Genees-, Heel- & Verloskunde (MD) in 1978. In 1982 he became a board-certified Specialist in Anaesthesiology and in 1998 a board-certified Intensive Care Specialist. In 1991, he passed the European Diploma in Intensive Care Medicine (EDIC). He finished his Doctoral Thesis at the Faculty of Medicine University of Antwerp (UA) and was PhD awarded as Doctor in de Medische Wetenschappen in 2004. He obtained a Getuigschrift Master in Gezondheidseconomie (MHE awarded) in 2005 at the Vlekho Business School of Brussels. He is currently the Director of the Department of Anaesthesia at the ZNA Middelheim General Hospital in Antwerp Belgium and he was President of the Medical Council at the same hospital until January 2014.

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Pieter-Jan Hofkens qualified as M.D. in 2007 and as Cardiologist in 2013 at the Catholic University of Leuven, Belgium. Then he started a fellowship in Intensive Care Medicine at the Ziekenhuis Netwerk Antwerp in the ZNA Stuivenberg Hospital in Antwerp and the Antwerp University Hospital (UZA), becoming certified in Intensive Care Medicine in 2014. Currently, he works in AZ Turnhout. His main interests are heart failure and cardiovascular imaging. He is certified by the European Society of Cardiology in transthoracic and transesophageal echocardiography.

Ince Can
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Professor Dr Can Ince is a physiologist who heads the Department of Translational Physiology at the Academic Medical Center (AMC) of the University of Amsterdam. In addition Professor Ince is a part-time staff member (40%) of the Department of Intensive Care of the Erasmus Medical Center in Rotterdam (head Prof. Jan Bakker). Together with his team he conducts both experimental and clinical research directed at cardiovascular aspects of peri-operative medicine. Research topics include clinical microcirculation research in intensive care, cardiothoracic surgery and anaesthesiology, blood transfusion, fluid resuscitation, sepsis, shock and resuscitation, acute renal failure, oxygen transport to tissue and mitochondrial function. In addition the experimental and clinical medical technology research related to the aforementioned topics is carried out. Prior to his current position he was professor of Experimental Anaesthesiology at the Department of Anaesthesiology as well as Prof of Cell Physiology at the AMC. Before going to the AMC (1993) he was associate professor at the University Hospital of Rotterdam at the Intensive Care Unit of the Department of General Surgery (head prof. HA Bruining). Prior to that he had worked at the Dept. of Infectious Diseases (University Hospital Leiden) for some ten years on immunological research. He has a PhD degree in Immunology/Cell physiology from that University as well as degrees in electrical and electronic engineering (BSc University of Birmingham (UK), MSc Information Theory Technical University of Delft (Netherlands)). Prof Ince is past-president of the Dutch Physiological Society, former chairman of the Scientific Committee of the Netherlands Society for Intensive Care Medicine and past-president of the International Society of Oxygen Transport to Tissue. He is member of the Hemodynamics Working Group and of the Medical Technology Assessment Working group of the European Society for Intensive Care Medicine. He is on the editorial boards of several journals and has organized several international conferences, the latest of which was the 2011 Functional Hemodynamics and Fluid Therapy International Symposium in Istanbul Turkey (see www.microcirculation-research.org/istanbul). He has authored close to 300 scientific peer reviewed papers.

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Dr. Alexandre Joosten graduated from medical school at the Université Libre de Bruxelles in 2008. He subsequently went on to receive his training in anaesthesiology at CHU Brug-

mann, from which he graduated in 2013. He then started practicing in the Department of Cardiovascular and Thoracic Anesthesia at CUB Erasme in Brussels. In February 2014, he decided to diversify his professional knowledge and skills with a 1 year research fellowship at the University of California, Irvine, USA with Dr. Maxime Cannesson as his personal mentor. There, he worked as a leading member of his research team on goal directed therapy strategies and how to implement this concept at the bedside. His others interests include noninvasive cardiac output monitoring devices, fluid therapy, and many other novel perioperative technologies. Dr. Joosten's main research currently focuses on testing the impact of perioperative hemodynamic optimization using closed-loop automated fluid management system on post-operative outcome of patients undergoing high risk surgery.

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Philippe Jorens graduated in medicine (MD) in 1987 at the University of Antwerp, UIA, with high distinction. He obtained his PhD degree at the University of Antwerp (UA), UIA in 1993 on a topic entitled "Nitric oxide and interleukin-8: two mediators released by pulmonary macrophages". He is the chairman of the department of critical care medicine, at Antwerp University Hospital, University of Antwerp and president of the medical council. He is a Full professor in critical care medicine at the Faculty of Medicine. Prof Jorens obtained many other additional certificates: In 1994: Innsbruck, European Diploma in Intensive Care Medicine, written part. In 1994: Ghent, European Diploma in Intensive Care Medicine, oral part. In 1997: Tilburg, Advanced Trauma Life Support (Am College of Surgeons). In 2004: Clinical Pharmacologist (Dutch Society of Clinical Pharmacology and Biopharmacy). In 2006 Vlerick Management School. General management for the hospital doctor. In 2008: Advanced neuro ICU management (Hamburg – Germany). He is author and co-author of > 200 peer reviewed articles and book chapters.

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Cynthia Lafaïre is a general surgeon since 1993 and qualified MD at the University of Leuven in 1986. She started her position as staff member in 1993 and became the Director of the Surgical Burn Unit at the Ziekenhuis Netwerk Antwerp, ZNA Stuivenberg Hospital in Belgium, since 2005. She is member of the board and medical coordinator of Oscare vzw

Oscare as of November 1st 2004; Oscare is an aftercare center for burn victims. She is co-founder of the Scar Academy. Cynthia is Vice president of Directors of the Belgian Burn Association (Belgische Brandwonden Stichting). She is member of the Belgian Association for Burn Injuries and the Dutch association for BurnCare. She is active Member of the European Burn Association (EBA). She is part of the Multidisciplinary Therapeutic Group for Scartreatment and stakeholder Child Safety Action Plan, FOD OIVO. In 2007 she received the best professionals allied medicine (PAM) poster award from the EBA in Budapest and in 2009 the special award for innovative ideas from EBA in Lausanne.

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Daniel Lichtenstein is medical intensivist working at Ambroise-Paré Hospital (Paris-West, France) since 1989, visiting Professor. Main developments: use of critical ultrasound since 1985, defined in 1991 (Intensive Care Med 19:353-355) as a discipline associating ultrasound diagnoses and immediate therapies, with adjunct uses (venous cannulation, thoracentesis...). Main publications: textbooks (1992, 2002, 2005, 2010, 2011 & 2015 editions, Springer), two dozens of original articles, mostly focused on lung and venous ultrasound, including: BLUE-protocol (acute respiratory failure), FALLS-protocol (lung ultrasound for management of acute circulatory failure), SÉSAME-protocol (cardiac arrest), lung ultrasound in critically ill neonates. President of CEURF, personalized training center at the bedside in the I.C.U., where critical ultrasound is taught as a holistic approach, favoring simple equipment (without Doppler), one universal probe for whole body, emphasis on lung, adapted venous ultrasound, simple cardiac sonography (and others), extrapolation to multiple disciplines (pediatry, pulmonology...), settings (ICU, austere areas...), patients (from bariatric to neonates).

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Dileep N Lobo, MB BS, MS, DM, FRCS, FACS, FRCPE is Professor of Gastrointestinal Surgery and Consultant Hepatopancreaticobiliary Surgeon at Queen's Medical Centre, Nottingham, UK. He qualified from Bangalore University, India and has trained in Chandigarh, Nottingham and Leicester. He was awarded a DM degree with distinction by the University of Nottingham for his work on fluid and electrolytes and is a recipient of the Sir David Cuthbertson Medal for his contributions to the field of Nutrition and Metabolism. He has been

awarded the prestigious James IV Society of Surgeons Traveler's Award and the Moynihan Fellowship. His clinical interests focus surgery of the pancreas and biliary tree and laparoscopic surgery. His research interests include surgical nutrition and metabolism, fluid and electrolyte balance and pancreatic cancer. Dileep is the local Special Interest Group Lead in Surgery for the UK Comprehensive Clinical Research Network. He is also the Surgical Lead for the Nottingham Digestive Diseases Centre NIHR Biomedical Research Unit. He is currently Associate Editor of Clinical Nutrition. He is a member of the editorial board of four peer-reviewed journals and has been Clinical Editor of Surgery (Oxford) and Associate Editor of the European Journal of Clinical Nutrition. He has over 150 publications in peer-reviewed journals and has lectured both nationally and internationally. He was awarded the Fellowship of the American College of Surgeons in 2010 and was elected to the Fellowship of the Royal College of Physicians of Edinburgh in 2013. He was a member of the Scientific Committees of the European Society for Clinical Nutrition and Metabolism and the International Society for Surgical Metabolism and Nutrition from 2010-13. He is Chair of the Scientific Committees of the Society of Academic and Research Surgery and the ERAS Society and is Secretary and Treasurer of the International Association for Surgical Metabolism and Nutrition.

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Manu Malbrain (1965) qualified as MD from the Catholic University of Leuven, Belgium in 1991. He is married to Bieke Depré and they have 3 sons: Jacco, Milan and Luca. He is the manager and director of the Medical and Surgical ICU, the High Care Burn Unit and a hyperbaric oxygen chamber of the ZNA "Ziekenhuis Netwerk Antwerpen", Campus Stuivenberg/St-Erasmus in Antwerp, Belgium. As of May 1st this year he became the medical hospital director of the ZNA Stuivenberg and St-Erasmus hospitals. He is a critical care physician (1996) with a basic training in internal medicine (1991). He is actively involved in the European Society of Intensive Care Medicine (ESICM) where he chaired the Working group on abdominal problems (WGAP) within the POIC section (2009 - 2013) and studied the effects of raised intra-abdominal pressure (IAP) in general ICU patients for the last 20 years. He finished the Patient Acute Care Training (PACT) module on abdominal problems together with Jan De Waele. He was the Scientific program Chair together with Michael Sugrue of the 2nd World Congress on Abdominal Compartment Syndrome, Noosa, Australia, Dec 6-8 in 2004. He was the chairman of the 3rd WCACS in Antwerp, Belgium, March 22-24, in 2007 (www.wcacs.org). He is the founding President and actually the Treasurer of the World Society on Abdominal Compartment Syndrome (WSACS at www.wsacs.org). Together with Niels Van Regenmortel, he is co-founder of the International Fluid Academy (www.fluid-academy.org) and co-chaired the first 2 iFAD meetings on November 19th in 2011 and November 17th 2012 in Antwerp. Besides IAP, his favourite topic is less invasive (hemodynamic) monitoring and he enjoys his active involvement in (bedside) teaching and education of medical trainees and students. In 2003 he was the first ESICM Chris Stoutenbeek Award winner in Amsterdam with a study protocol on different intra-abdominal pressure measurement methods and he successfully defended his PhD doctorate's thesis in 2007 on the same topic (KU Leuven). He is author and co-author of several peer-reviewed articles, reviews, editorials, book chapters and even two whole books on ACS.

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Xavier MONNET is Professor of Intensive Care at the Paris-South University. He is working in the Medical Intensive Care Unit of the Bicêtre Hospital (Paris-South University Hospitals). Dr Monnet completed his medical studies at the Paris-6 Medical School and he earned his medical degree in 2000, with specialty in Cardiology and Intensive Care Medicine. In 2004 at age 33, he obtained his PhD from the Paris-South University. Dr Monnet's main fields of research investigation are acute circulatory failure and its treatment, haemodynamic monitoring and heart-lung interactions. Since 2001, he has signed more than 100 articles in peer-reviewed scientific journals and is the author of several didactic reviews and book chapters. Dr Monnet is the General Secretary of the French Intensive Care Society

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Professor David Muckart was born in Perth, Scotland in 1953 and completed undergraduate medical training at the University of Dundee in 1977. Thereafter he undertook surgical training in Glasgow, obtaining the FRCS (Glasgow) in 1981. He spent a year in South Africa 1982-83 at King Edward VIII Hospital in Durban where he developed an interest in trauma and critical care and returned to South Africa to complete his surgical training in 1985 assuming the position of head of critical care in 1990. He completed his Master's Thesis in 1998 on mathematical modelling for the prediction of outcome in the critically injured which was awarded cum laude by the University of Natal, receiving the Medal for Excellence in Research from the university the same year. In 1999 he was appointed Associate Professor in the Department of Surgery at the University of KwaZulu-Natal, served as the President of the Trauma Society of Southern Africa between 1999 – 2001, and was elected an Associate of the College of Surgeons of South Africa in 2001. The President's Award of the Critical Society of Southern Africa was bestowed upon him in 2007 for excellence in critical care and in the same year he established the Level I Trauma Unit and Trauma Intensive Care Unit at the Inkosi Albert Luthuli Central Hospital in Durban and is currently the Chief Surgeon and Director of Trauma Critical Care. Professor Muckart has published more than 80 papers in peer reviewed journals, contributed numerous chapters to books on trauma and critical care, and delivered more than 100 lectures and papers at national and international meetings.

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Monty is the Smiths Medical Professor of Anaesthesia and Critical Care at University College London MB BS MD FRCA FFICM FCAI (Hon). Director of The UCL Discovery Lab at The London 2012 Olympic legacy Institute of Sport Exercise and Health. Before returning to the UK, Monty was an assistant Professor at Duke University Medical Centre and acting Chief of Critical Care in the Department of Anesthesiology. Monty is also an Elected Council Member of the Royal College of Anaesthetists and Leads their Perioperative Medicine Programme; Chair of The Board of the National Institute of Academic Anaesthesia; A Director of Xtreme-Everest; Editor-in-Chief Perioperative Medicine. Editorial board member: British Journal of Anaesthesia; Critical Care and Co-Chairman of Evidence Based Peri-operative Medicine (EBPOM). Monty was National Clinical Lead at the UK Department of Health for the Enhanced Recovery Partnership in the English NHS from May 09 - March 2013.

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Dr Nieuwendijk was born in Amsterdam, The Netherlands and studied medicine at the university of Antwerp (Belgium) where he was trained as an internist and subsequently as an intensivist at the University of Antwerp (UZA). After obtaining these degrees in 2006 he started working as an intensivist at the Thorax Centre of the Erasmus MC Rotterdam (The Netherlands) from 2007 until 2008. From 2008 until the present day he works as an intensivist at ZNA Middelheim (Antwerp, Belgium). His main topics of interest and expertise are infectious diseases, therapeutic hypothermia, post-resuscitation care and cardio-thoracic surgery.

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Baudewijn Oosterlynck works as a chief nurse on the intensive care unit of the AZ Sint-Jan, in Bruges, Belgium. He has received, in addition to his professional certificate in intensive care and emergency care, a certificate of "court expert" in nursing. Baudewijn is part of the Wound Clinic team that uses the infrastructure of the outpatient department of General Surgery. Dr. Sebastiaan Van Cauwenberghe is the responsible physician-specialist. Baudewijn is an active member of the Belgian society of critical care nurses (VVIZV) and he is author of the book "Dringende medische hulpverlening door verpleeg-kundigen" or "emergency medical interventions by nurses", published by Acco.

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Azriel Perel qualified as MD (1974) and completed his residency in Anesthesia and Intensive Care at the Hadassah Medical Center (Hebrew University) in Jerusalem, Israel. Between 1977 and 1979 he was a Fulbright Fellow and did a Postdoctoral research fellowship in the Cardiovascular Research Institute, University of California, San-Francisco, California, followed by a critical care fellowship at the University of Florida in Gainesville. In 1985 he did a one-year Visiting Professorship of Critical Care at UC San Diego. Since 1987 he is the Chairman of the Department of Anesthesiology and Intensive Care at the Sheba Medical Center in Tel Aviv. In 1998 he became the first Full Professor of Anesthesia and Intensive Care at the Tel Aviv University in Israel. Prof Perel has received a Research Scholarship from the French Ministry of Research and Education and has been a Visiting-Professor at the Hopital Pitié-Salpêtrière, Paris, during 2004. In 2012 he has completed a 6 months Sabbatical as a Visiting Professor at the Charité hospital in Berlin. Prof Perel has been the Treasurer and Board member of the European Society of Anesthesiologists (1998-2002) and the President of the Israel Society of Anesthesiologists (2005-2011).

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Anders Perner, MD 1993, PhD 2001, Specialist in anaesthesia and intensive care 2004, European Diploma in Intensive Care 2009. He is senior staff specialist in Intensive Care, Rigshospitalet since 2007, Professor in Intensive Care Medicine, University of Copenhagen since 2012, Chair of Scandinavian Critical Care Trials Group since 2008 and Section editor at Intensive Care Medicine since 2013. His major research interest is clinical research in critically ill patients. Thus he currently chair the Scandinavian Critical Care Trials Group and the strategic research programme 'New resuscitation strategies in patients with severe sepsis'. The program is ongoing and will randomize 2000 patients with severe sepsis in 3 RCTs of resuscitation in 30 ICUs in all the Nordic countries. The first RCT, the 6S trial has been published and the second, the TRISS trial, is ongoing and on track.

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Prof Poelaert is Head of the Department Anaesthesiology, University Hospital UZ Brussel (since October, 2007) and Clinical Director of Cardiac Anaesthesia and Postoperative Cardiac Surgical ICU (Sept 30, 2007). He is Board certified Anaesthetist of the Belgian Society of Anaesthesia and Reanimation (August 12, 1988) and he is Board certified Critical Care Physician of the Belgian Society of Intensive Care Medicine (October 23, 1997). He qualified MD, Doctor of Medicine on July 6, 1983 (Faculty of Medicine, University of Gent, Belgium) and specialized in anaesthesia and reanimation (5 years). His PhD thesis was entitled "Transoesophageal Echocardiography in Critically Ill Patients. A Comprehensive Approach". He is Member of the Editorial Board of the Journal of Cardiothoracic and Vascular Anesthesia since 1993 (Editor in Chief: JA Kaplan, Louisville, KY, US). He is Reviewer and Consultant of Anesthesia and Analgesia; Anesthesiology; British Journal of Anaesthesia; Chest; European Journal of Echocardiography; Intensive Care Medicine; Critical Care; Acta Clinica Belgica; and Acta Anaesthesiologica Belgica. He was Visiting Professor from December 1995 – March 1996 in the Klinik und Poliklinik für Anästhesiologie und operative Intensivmedizin (Prof. Dr H.Van Aken) of the Westphalische Wilhelmsuniversität, Munster, Deutschland. Educational program of transoesophageal echocardiography in the anaesthesia and critical care department and from 20 till 26 February 2005 in the Klinik für Anaesthesiologie und operative Intensivmedizin (Prof. Dr. H. Metzler) of the Uniklinik, Graz, Austria. Educational program of transoesophageal

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Dr Prowle is a Senior Clinical Lecturer in Intensive Care Medicine at Barts and the London School of Medicine and Dentistry, Queen Mary University of London and an Honorary Consultant Physician in Intensive Care Medicine and Renal Medicine at The Royal London Hospital, Barts Health NHS Trust, London, UK (MA MB BChir MSc MD FRCP FFICM). He graduated in medicine from the University of Cambridge in 1999 and undertook Doctoral Research under the supervision of Prof Rinaldo Bellomo in Melbourne, Australia leading to the award of his MD degree in 2013. Dr Prowle's academic interests include the Pathogenesis, Diagnosis and Treatment and Outcomes of Acute Kidney Injury, Continuous Renal Replacement Therapies in the ICU, Fluid Therapy and Medical Complications of Major Surgery. Since 2009 he has co-authored over 60 peer-reviewed publications and book chapters, including chapters related to Acute Kidney Injury in forthcoming editions of the Oxford Textbook of Clinical Nephrology and the Oxford Textbook of Critical Care.

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Prof. Reuter received his undergraduate medical education at the Universities of Würzburg (Germany), New York (USA), and Munich (Germany). He was trained in anaesthesiology and intensive care medicine at the University Hospitals of Tübingen and Munich with particular emphasis on cardiac and transplant surgery. At the University of Munich he received as well his specialization in intensive care medicine. Since 2006, he is vice chair of the Department of Anaesthesiology at the Hamburg Eppendorf University Medical Center, and since 2009 he is appointed as a Professor of Anaesthesiology at the Medical Faculty of the University of Hamburg.

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Jeffrey Schouten attained his degree as MD in 2002 at the University of Antwerp. He graduated in gastro enterology in 2008. Afterwards he worked for 5 years at the Erasmus Medical Centre of Rotterdam where he did his PhD in hepatology about vascular liver diseases. His main research topic is ultrasound, epidemiology and vascular liver disorders. Currently he works at AZ Nikolaas and the University of Ghent.

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Mike Smet attained his degree as M.D. in 1992 at the University of Antwerp, Belgium. He graduated in internal medicine in 1997, and afterwards also graduated in Emergency Medicine in 1999 and Intensive Care Medicine in 2001. He has been working in ZNA Middelheim general hospital in Antwerp since 1999, where he works both in the emergency department and in the intensive care department. He has a special interest in good clinical practice and rapid evaluation of the critically ill patient. During his internal medicine training he

became interested in the use of ultrasound to support his clinical work. Soon after starting work in the emergency department he initiated the use of using ultrasound as a major tool to support daily practice in a very busy department. He followed the WINFOCUS course in Rome in 2010, and became very interested in the use of lung ultrasound and the use of ultrasound in critically ill patients. He gave a well-appreciated lecture on the use of lung ultrasound in the emergency and intensive care department at the Bronkhorst Colloquium for Dutch and Flemish chest physicians in 2011 and 2012. He lives in Boechout with his partner and two children. In his spare time he likes to cook and visit jazz and rock concerts.

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Willem Stockman was born in 1966 and graduated as MD at the Catholic University of Louvain in 1991. He is married to Sofie Dewaele and has 5 children. He trained as an anesthesiologist at UZ Gasthuisberg, Louvain and at the Mass. General Hospital in Boston. Then, he subspecialized in Intensive and Critical Care Medicine in UZ Gasthuisberg. In 1997 he joined the staff of the Department of Anesthesia and Critical Care at the H.-Hart Hospital in Roeselare, Belgium, a hospital that is now merging with the Stedelijk Ziekenhuis Roeselare to the new AZ Delta Hospital. Willem's main interests are in the broad field of Critical Care. He believes their should be a continuity of high level of care in the resuscitation of critically ill patients enclosing prehospital care, interhospital transport, emergency room care, early detection of deteriorating patients on hospital wards, OR care, intensive care and (sometimes) end-of-life care. CPR is one of his interests. He is co-producer of a didactic movie on CPR (see www.CPR112.be). In recent years he became an adept of critical care ultrasound and believes it is an essential bedside tool for managing critically ill patients and guiding invasive procedures. He has lectured on critical care ultrasound on several national meetings. He twitters Anesthesia, Critical Care and Health Care related news and topics on his Twitter account Anesthesia&CritCare.

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Niels Van Regenmortel (°1976) qualified as MD in 2001 at Antwerp University; in 2006 he Board certified in Internal Medicine and in 2007 he was Board certified in Intensive Care Medicine. Since 2007 he is Staff member Intensive Care

Department – ZNA Stuivenberg – Antwerp, Belgium. In 2009 he was Lecturer of the course “Biomedical and nursing approach of metabolic disturbances” in the Bachelor after bachelor program Nursing in Intensive Care and Emergency Care – Artesis University, Antwerp, Belgium. Niels is actually working as an internist-intensivist on the 12 bed medical intensive care unit of the Stuivenberg Hospital in Antwerp. His special interest lies in acid-base analysis and the effects of fluid management on the human acid-base status. He is a strong advocate of the physicochemical explanation of these effects, introduced by Peter Stewart, and of the deleterious effects of fluid overload. He regularly gives local and international lectures about this topic and will start a research project on the subject in collaboration with the University Hospital of Antwerp in 2014.

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After spending his childhood and high-school education in the Netherlands Rick moved to the city of Antwerp in 2004 for a study in biomedical sciences at the University of Antwerp. Because of changing personal interests he started his professional bachelor education in nursing in 2008. Directly after graduation his profession as a nurse started at the Intensive Therapy Unit at ZNA Stuivenberg, where he still works today. Because of personal interest and to increase his acute care knowledge he followed a specialized bachelor course in emergency and intensive care nursing in 2012. As a thesis for completing this course he had a thorough look at the latest scientific research on humidification and heating strategies for oxygen therapy. This research led to the creation of a humidification flow chart, in co-operation with Dries Kees. It is with this flow-chart that we try to implement the latest evidence based principles of humidification/heating with oxygen therapy in every-day practice. Evidence based nursing will become even more important in the future and Rick hopes he can contribute to the ongoing evolution of this profession. Since 6 months Rick also started a teaching position at the Medical Department of campus Vesta in Ranst, Belgium (www.campusvesta.be). Campus Vesta is a regional provincial teaching institute for policeworkers, fireman, and other companies (Antwerp harbor, petrochemical industry, nautical schools, nursing homes,...)

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MD. FESC. (°19.09.1972). Dr Vermeiren graduated from Antwerp University in 1997 as physician and in 2004 as Cardiologist, sub-specialised in Intensive Care Medicine. After a 6 year residency in the ZNA Stuivenberg ICU, he accepted a position of Cardiologist – Intensive Care Physician at the Admiraal de Ruyter Hospital in Goes, The Netherlands. Currently he is working as cardiologist at Caruro, ZorgSaam Zeeuws-Vlaanderen, Terneuzen in The Netherlands. Under the supervision of Prof. P. Jorens, he did his research work on neutrophil activation in the reperfusion –ischemia syndrome. During the residency in ZNA Stuivenberg he participated in the research regarding the Abdominal Compartment Syndrome and was an active member of the Ethics Committee.

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Mike obtained his bachelor degree in nursing at the Karel De Grote High School in Antwerp, Belgium. Afterwards he continued his education with a bachelor after bachelor training in intensive care and emergency medicine. He wrote his thesis on proning in patients with ARDS, which resulted in the implementation of a flow chart and the organization of training courses for his fellow nurses. For the last 11 years he worked as an ICU nurse, first at AZ Monica hospitals from 2004-2010, followed by ZNA Jan Palfijn hospital (2010-2014) and since January 2015 he works at the medical intensive care unit (MITE) of the ZNA Stuivenberg hospital in Antwerp, Belgium.

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Dr Vieillard-Baron is professor of Intensive Care. He is the head of the ICU in university hospital Ambroise Paré, Boulogne-Billancourt, France. He has written more than 120 peer reviewed articles in the reputed journals and very passionate about heart-lung interactions and echocardiography and its usefulness in the critical care. He is associated editor for Intensive Care Medicine and Annals of Intensive Care journals.

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Dr Vincent is Professor of intensive care at University of Brussels, and a consultant intensivist in the Department of Intensive Care at the Erasme University Hospital in Brussels. He is President of the World Federation of Societies of Intensive and Critical Care Medicine (WFSICCM) and a Past-President of the Belgian Society of Intensive Care Medicine (SIZ), the European Society of Intensive Care Medicine (ESICM), the European Shock Society (ESS), and the International Sepsis Forum (ISF). He is member of the Royal Medical Academy of Belgium. Dr. Vincent has signed more than 850 original articles, some 400 book chapters and review articles, 930 original abstracts, and has edited 99 books. He is co-editor of the Textbook of Critical Care (Elsevier Saunders) and the "Encyclopedia of Intensive Care Medicine" (Springer). He is the editor-in-chief of "Critical Care", "Current Opinion in Critical Care", and "ICU Management" and member of the editorial boards of about 30 other journals. He received several awards including the Distinguished Investigator Award of the Society of Critical Care Medicine, the College

Medalist Award of the American College of Chest Physicians, the Society Medal (lifetime award) of the European Society of Intensive Care Medicine, the Laerdal Award and the prestigious Belgian scientific award of the FRS-FNRS (Prix Joseph Maisin-Sciences biomédicales cliniques). His name appears about 1000 times in Pubmed, and has been cited more than 100,000 times, yielding an H-index above 130.

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Adrian WONG trained at Guys' Hospital London in the UK and is currently an Intensivist/ Anaesthetist at Oxford University Hospitals NHS Trust. He has an interest in point-of-care ultrasound, clinical governance and medical education. Adrian is active on twitter and is a supporter of the Free Open Access to MedEducation (FOAMed) movement. Follow me on Twitter - @avkwong