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Innovative leadership and excellence in anesthesia, perioperative care, and patient **safety**

ANESTHESIANEWS

PRESIDENT'S MESSAGE



CAS Welcomes Ms Debra Thomson as Executive Director

I am delighted to announce the appointment of Debra Thomson as CAS Executive Director, effective November 9, 2015.

Leadership as a Process

As we embark on our path with Debra, it reminds me that the success of CAS—and any organization for that matter—is hugely dependent on having experienced and sound leadership at its helm. I like a leadership approach and philosophy that is built on mutual respect and open communication in a collegial environment. Our current staff complement exemplifies that model and demonstrates the definition of “team work”. Debra will be a wonderful addition to the CAS team.

Debra is taking over at a busy time for CAS. She will have an opportunity to work with board members and stakeholders from across Canada. On a day-to-day basis, Debra welcomes input and ideas directly from members, and I encourage you to communicate with her about what's on your mind. Making these connections with members and learning about their needs and expectations will be an important component of Debra's leadership in determining how she can best guide CAS forward.

CAS members have a common vision in delivering high quality and safe anesthesia care to their patients. We are committed to education and to research for the advancement of our profession. CAS has a vision to be organizationally proactive and responsive. Effective leadership in delivering on those visions is paramount. Leadership in the CAS involves committee chairs, Division representations, educators, *Journal* editors, researchers, Anesthesia Assistants, and, of course, many other anesthesiologists. While “leadership” is defined in many ways, I think this description defines our leaders: Leadership is a process “of influencing others to understand and agree about what needs to be done effectively to accomplish shared objectives.”

I believe we will be well positioned for leadership. Debra's dynamic background and skills will help her to lead CAS forward. Please join me in welcoming Debra to CAS!

Looking Back and Looking Ahead

As 2015, draws to a close, I look forward to 2016 with enthusiasm. I have accepted a position as Clinical Chief at Hamilton Health Sciences, effective January 2016. I will continue to be as accessible as ever from Ontario or Newfoundland, and always appreciate hearing from members from coast to coast!

In whatever way you and your family celebrate the upcoming season, I extend my best wishes for a healthy and prosperous new year.

Dr Susan O'Leary, FRCPC

CAS WELCOMES NEW EXECUTIVE DIRECTOR



Debra Thomson brings a wealth of experience in member services, leadership development, governance, administration, and education. Combining her achievements in member engagement and relationship-building with a keen sense of the current environment for anesthesiologists across Canada, Debra looks forward to meeting and hearing from members.

"I welcome the opportunity to engage with CAS members," says Debra. "It is very important for me to get to know members and their needs—anesthesiologists, residents, new graduates, as well as potential new members. Past work experiences with external stakeholders such as the Canadian Medical Association and Health Canada have contributed to my understanding of the anesthesiology profession, and I hope that my fresh perspective will help me guide CAS priorities, activities, programs, services, education, and especially member service excellence."

In her previous role as Executive Director of Scouts Canada, Debra was directly accountable for two of the largest Councils in Canada (8,000+ members) and managed a significant portfolio, including developing partnerships, leading strategic development, working with government and funding agencies, overseeing key special events and, most importantly, putting the focus on member services.

Prior to Scouts, Debra was Director, Business Development & Partnerships/Member Services/Conferences & Events for the Canadian Physiotherapy Association. Her responsibilities included organizational leadership, advocacy, member services (including education and professional development), as well as establishing and maintaining relationships with the volunteer leaders of 13 national Branches and 15 specialty Divisions.

The next few months will be busy for Debra and she is extremely enthusiastic about getting down to business. She intends to focus on member recruitment and retention, specifically with residents and new graduates; education enhancements; and a review of our administrative office.

"My approach is 'open door' and people should always feel comfortable in calling or emailing me. My goal is to improve the value proposition for CAS members and make it attractive for non-members to join. I am very excited about the opportunity to work with members, the Board of Directors, provincial Division representatives, committee chairs, and the staff team."

Debra invites you to contact her directly at director@cas.ca or by calling her at the office or on her cellphone at 647-515-8915.

Welcome, Debra!

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You may contact Board members through the CAS central office.



Canadian Anesthesiologists' Society

www.cas.ca

In 2016, the CAS Annual Meeting heads to Vancouver. The theme for the Annual Meeting is “Improving Perioperative Outcomes” and a wide-ranging program is being planned. Mark your calendar for the dates: **June 24 – 27!**

Sneak Preview

Opening Plenary: Post-operative Cognitive Dysfunction – Noise or Signals?

Speaker: Dr Jacqueline M Leung, University of California, San Francisco

Moderator: Dr Jean Wong, University of Toronto, University Health Network

This session will examine risk factors for post-operative cognitive dysfunction (POCD) in older patients and whether anesthetic techniques or management affect the rates of POCD.

Dr Angela Enright Lecture: Sleep Apnea, Obesity Hypoventilation Syndrome, Overlap Syndrome: Are we Sleepwalking into Disaster?

Speaker: Dr Frances Chung, University of Toronto, University Health Network

Moderator: Dr Mandeep Singh, University of Toronto, University Health Network

Dr Chung’s presentation will examine how patients with undiagnosed obstructive sleep apnea, malignant obesity hypoventilation syndrome and overlap syndrome should be identified pre-operatively in order to evaluate and institute management strategies to reduce their risk for post-operative complications.

The Annual Meeting provides a unique Canadian perspective on anesthesia, and the meeting experience for attendees continues to evolve and improve. Our meeting offers the best in Canadian anesthesiologists as well as a diverse array of speakers from around the globe. Our goal is to make the meeting fully interactive through the use of moderators at each session and with an audience response system so you can see in real time the responses of your colleagues and ensure time at the end of each session to ask the presenters any questions you feel are relevant.

Explore and Enjoy

Vancouver is a perfectly situated city on the west coast and a great city to explore with your family before or after the Annual Meeting. Explore the city with ease—you’re close to the mountains and to the water, and there’s plenty of shopping, dining and cultural attractions for all tastes and ages. Outside of Vancouver, you can explore Whistler, Vancouver Island (including Victoria) and points east and north of Vancouver such as the Okanagan wine region and Kootenay Mountains.

I look forward to seeing you in Vancouver.

Dr Daniel Bainbridge
Annual Meeting Chair

WELCOME TO VANCOUVER!

While our Scientific Committee is dedicated to planning the highest calibre of plenary sessions and workshops, our Local Arrangements Committee hopes to share with you the natural splendours and attractions of our West Coast home.

The Vancouver Convention Centre is situated on Burrard Inlet with waterfront views of the North Shore Mountains and provides a state-of-the-art venue for our Annual Meeting. Iconic images surround you: the roof-top sails of Canada Place, the pixelated sculpture of Douglas Coupland’s 2009 Digital Orca. Bring your family and enjoy the scenery along the world’s longest uninterrupted waterfront path—the 28km Seaside Greenway—as it winds through Stanley Park. Sample the exceptional flavours of Pacific Northwest fusion cuisine.

We hope you’ll join us this spring for fantastic educational opportunities interspersed with outdoor and urban adventures right on your doorstep.

Dr Natasha Broemling
Member, Local Arrangements Committee

DID YOU KNOW VANCOUVER...



- Was recently ranked as the third most “livable place in the world” for its high standard of living and quality of life?
- Won the 12th best food city in the world?
- Is the largest film production centre in North America after Los Angeles and New York City?
- Has the mildest climate in Canada?
- Is where Greenpeace was established?

CONTINUOUS IMPROVEMENT: INITIATIVES FOR THE 2016 ANNUAL MEETING

BY: JANE TIPPING, EDUCATIONAL CONSULTANT

In 2016, the Annual Meeting will be incorporating Poll Everywhere (an audience response system) into many of its sessions. The purpose of this is to provide more opportunities for delegates to ask questions and engage in meaningful discussions with speakers.

Two years ago, the Annual Meeting Working Group took on the task of continuous improvement to the educational quality of the meeting, which has begun to show in reactions to and evaluations of last year's meeting. To that end, speakers and faculty involved in the meeting are provided with unique faculty development resources. These include the invitation to take part in a peer observation program that provides specific and detailed feedback enabling faculty to determine their individual teaching qualities as well as suggestions on changes they could make to create a bigger impact. One-on-one coaching will be offered with an expert in adult education.

A moderator's training module is available and participants can receive Royal College Section 3 credit. Now in development are modules on increasing audience involvement, creating questions for Poll Everywhere, and providing guidance on how to be an effective peer observer.



THE SELF ASSESSMENT PROGRAM FROM THE *CANADIAN JOURNAL OF ANESTHESIA* – CPD ONLINE

CPD MODULE: Potential strategies for preventing chronic postoperative pain: a practical approach
December 2015

ALSO AVAILABLE

- Managing the challenging pediatric airway
September 2015
- Reversal of warfarin anticoagulation for urgent surgical procedures
June 2015
- Step-by-step clinical management of one-lung ventilation
December 2014
- Bedside clinical and ultrasound-based approaches to the management of hemodynamic instability: Part II: bedside ultrasound in hemodynamic shock
November 2014
- Bedside clinical and ultrasound-based approaches to the management of hemodynamic instability – Part I: focus on the clinical approach
September 2014
- Cesarean delivery under general anesthesia
May 2014

HOW TO ACCESS THE MODULES

Instructions can be found on the Canadian Anesthesiologists' Society website at:

cas.ca/members/cpd-online

Successful completion of each module of the self-assessment program will entitle readers to claim four hours of continuing professional development (CPD) under section 3 of CPD options, for a total of 12 maintenance of certification credits. Section 3 hours are not limited to a maximum number of credits per five-year period.

Publication of these modules is made possible through unrestricted education grants from the following industry partners:



COVIDIEN

CAS MEMBERS WIN INTERNATIONAL AWARD

Congratulations to CAS members, Dr Viren Naik and Dr Christopher Hudson, both from the University of Ottawa. Along with Ms Emma Stodel, PhD, they have been awarded the World Federation Of Societies of Anaesthesiologists (WFSA) Innovation Award for their creation of online tools to support a competency-based anesthesiology residency program.

The WFSA Innovation Awards encourage and support innovation in anaesthesiology that has had—or is likely to have—a positive impact on surgical patient outcomes. WFSA is the foremost global alliance of anesthesiologists, working together with national, regional and specialty organizations to facilitate and promote the highest standards of patient care.

The Innovation Award was also awarded to Dr Paulin Ruhato Banguti, consultant anesthesiologist at King Faisal Hospital in Kigali, who won an award for his country-wide Anesthesia Practice Network (APN) for education, mentorship and patient safety in Rwanda.

“I am thankful to my association, the Rwandan Society of Anaesthesiology, and my partner and mentor from the Canadian Anesthesiologists’ Society’s International Education Foundation, Dr Patricia Livingston, who has supported me to be the pioneer of this project,” said Dr Banguti.

The winners will all attend the award ceremony at the World Congress of Anaesthesiologists in Hong Kong in 2016, at which time they will have an opportunity to showcase their work and receive a \$2,000 cash prize.



Dr Viren Naik



Dr Christopher Hudson



Dr Paulin Ruhato Banguti

More details can be found at: <http://www.focus.rw/wp/2015/09/22/rwandan-anaesthesiologist-wins-international-award/>



CONGRATULATIONS... TO DR STEVEN DAIN AND COLLEAGUES

CAS member, Dr Steven Dain, Department of Perioperative Services, Woodstock Hospital, and the University of Waterloo Department of Electrical and Computer Engineering, as part of a team led by Dr Julian Goldman, Massachusetts General Hospital, won first place for their scientific exhibit entitled “Integrated Clinical Environments (ICE) to Improve Safety and Enable Rapid Innovation”. The exhibit was held at the recent Annual meeting of the American Society of Anesthesiologists (ASA) in San Diego.



Dr Julian Goldman (left) and Dr Steven Dain (right) with the integrated clinical environment



CAS SUPPORTS UPDATED SMARTTOTS CONSENSUS STATEMENT

CAS has endorsed the updated SmartTots consensus statement in the United States regarding anesthesia safety in young children. The statement was released on October 13, 2015, and follows the one released in January 2013.

The SmartTots consensus statement emphasizes a need for more research into the safety of anesthetics and sedatives administered to infants and young children under the age of four. Nineteen leading US and global health organizations, including the American Society of Anesthesiologists, have endorsed the statement.

Members are reminded that the CAS has a Section for pediatric anesthesiologists.

Information about the Canadian Pediatric Anesthesia Society (CPAS) and other Sections can be found on the CAS website at <http://www.cas.ca/English/CAS-Sections>

To read the full October 2015 statement, go to:
<http://www.cas.ca/English/SmartTots-consensus-statement>



SYRINGE NOTIFICATION FROM BD MEDICAL

BD Medical reports reduced drug potency of certain medications when stored in certain BD sterile plastic disposable syringes. The decreased potency is due to an interaction of some drugs with one of the two types of rubber stopper used in the syringes. This issue occurs only when drugs are compounded and/or repackaged (pre-filled and stored) in syringes containing these stoppers.

More information can be found in:

- BD Medical's press release (<http://www1.bd.com/ca/alerts-notice/>) (English only) and website
- The ISMP Canada website (English only) (http://www.ismp-canada.org/download/safetyBulletins/2015/ISMPCSB2015-09_Methotrexate.pdf#page=40)
- Government of Canada Healthy Canadians site (English) <http://healthycanadians.gc.ca/recall-alert-rappel-avis/hc-sc/2015/55044a-eng.php>



CAS RESEARCH PROGRAM – REMINDER!

The online submission website of the CAS 2016 Research Program, Operating Grants and Career Scientist Award is open. All applications must be submitted using the CAS online submission before the deadline.

**SUBMISSION DEADLINE:
MONDAY, JANUARY 11, 2016 – 16:00 EST**

HELPFUL WEBSITE LINKS:

Research Program link on CAS website:

www.cas.ca/English/About-Research-Program

Online Submission Website:

mc.manuscriptcentral.com/cas2016awards

NEW INVESTIGATOR OPERATING GRANT

Canadian Anesthesiologists' Society
Research Award

SUBSPECIALTY OPERATING GRANTS

CAS Research Award in Neuroanesthesia
in memory of Adrienne Cheng

Dr Earl Wynands Research Award
in Cardiovascular Anesthesia

OPEN OPERATING GRANTS

Dr R A Gordon Research Award for Innovation
in Patient Safety

RESIDENTS' RESEARCH GRANT

Ontario's Anesthesiologists – CAS Residents'
Research Grant



2016 ABSTRACTS SUBMISSION – REMINDER!

Applicants are invited to submit their Abstract and/or Case Reports/Series to the Canadian Anesthesiologists' Society's 2016 Annual Meeting. The meeting will be held from June 24 – 27, 2016 in Vancouver, British Columbia at the Shaw Centre. To see the details, go to: www.cas.ca/English/Abstracts

**SUBMISSION DEADLINE:
MONDAY, JANUARY 18, 2016 – 16:00 EST**



2015 ABSTRACTS NOW AVAILABLE

Abstracts from the 2015 meeting have now been published, and can be found in the Abstracts Supplement on SpringerLink.com

MEMBERS:

Visit this page for instructions to access the Supplement: <http://www.cas.ca/English/Abstracts-2015>

NON-MEMBERS:

Visit: <http://link.springer.com/journal/12630/62/1/suppl/page/1> to purchase the supplement

Name change for Canadian Association of Interns and Residents

Effective February 2015, the Canadian Association of Interns and Residents (CAIR) changed its name to Resident Doctors of Canada (RDoC). Emails can be directed to info@residentdoctors.ca.

CANADIAN ANTI-SPAM LEGISLATION:





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Stay current, informed and on track with the latest discussions.... Sign up and take advantage:

-  Dr O'Leary on Twitter at @Susanolearynl
-  CAS on Twitter at @CASupdate
-  Join the conversation with #CAS_SCA2016
-  CAS on Facebook:
facebook.com/CanadianAnesthesiologistsSociety



2014 CANADIAN ANESTHESIOLOGISTS' SOCIETY RESEARCH AWARD

Dr Gerard Curley

St Michael's Hospital/Keenan Research Centre for Biomedical Science
St Michael's Hospital
Toronto, ON

Pre-activated Mesenchymal Stem Cell Therapy for Bacterial Pneumonia

Summary of progress to date: In the past six months, we compared the effects of MSCs derived from umbilical cord with those derived from bone marrow in a rodent model of *E coli* pneumonia (**Objective 3**)

Methods and results: ARDS was induced in rats by intratracheal instillation of *E. coli*. (1.5-2x10⁹ CFU/kg). **Series 1** compared the effects of MSCs derived from human umbilical cord (UC-MSCs) with MSCs from human bone marrow (BM-MSCs) on physiologic indices of lung injury, cellular infiltration and *E coli* colony counts in bronchoalveolar lavage (BAL). **Series 2** examined the effects of MSCs from human umbilical cord on survival, as well as measures of oxidant injury in BAL. Lung homogenates were tested for oxidative stress using Amplex red peroxidase assay, while the levels of proteins involved in reactive oxidative species (ROS) production (NADPH oxidases Nox 2, iNOS) or scavenging (SOD 1 and 2) were determined using Western blot analysis. Pro-inflammatory (TNF α , IL-6) and anti-inflammatory (IL-10)

cytokines were measured in broncho-alveolar lavage (BAL) samples by ELISA.

Results: In **Series 1**, animals subjected to *E coli* pneumonia who received UC-MSCs had improvements in oxygenation, respiratory static compliance and wet:dry ratios comparable to that seen with BM-MSCs. In addition, *E. coli* colony forming units in BAL were reduced in both cell therapy groups, despite a concomitant reduction in BAL neutrophils. In **Series 2**, survival of animals was improved by administration of MSCs. BAL protein levels and inflammatory cytokines were significantly decreased in the UC-MSCs group, while IL-10 levels were increased. Levels of ROS in lung tissue were lower in the UC-MSCs-treated group than in controls. Increases in Nox2 and iNOS were responsible for ROS production in injured lungs. UC-MSCs treatment reduced the concentrations of these enzymes and enhanced the concentrations of the ROS scavenging enzymes, SOD2.



2014 ABBVIE NEW INVESTIGATOR AWARD IN ANESTHESIA

Dr Harsha Shanthanna

McMaster University
Hamilton, ON

Most Effective Opioid Analgesia in Ambulatory Surgeries: A Randomized Control, Investigator Blinded, Parallel Group with Superiority Design Study of Morphine versus Hydromorphone

Summary of progress to date: The study team began screening/recruiting patients the beginning of February 2015. As of July 2015, there were 75 patients enrolled in the study at the St Joseph's Healthcare Hamilton site and

six patients enrolled at the Juravinski Hospital site. The expected start date for our McMaster University Medical Centre is September 2015. We have applied for additional grants from other funding agencies to complete the study.

While marveling at the geologic treasures of Green Point, in Gros Morne National Park in Newfoundland, I received a phone call informing me that I was the fortunate anesthesia resident that the CAS had chosen to sponsor to attend the Australian Society of Anaesthetists (ASA) and New Zealand Society of Anesthetists' (NZSA) 2015 Combined Scientific Congress in Darwin, Northern Territory from September 12 – 15, 2015.

As my predecessor, Dr Kelly Fedoruk, so aptly remarked, the warm hospitality I was to experience throughout the meeting was immediately evident upon my arrival at The President's Reception, the Congress' first event. The reception took place in the beautifully ornate Parliament House and was hosted by the current ASA and NZSA presidents, respectively, Dr Guy Christie-Taylor and Dr Ted Hughes. The attendees included executive members of the ASA and NZSA along with future and past presidents, including Dr Richard Grutzner and multiple representatives of the International anesthesia and scientific community, notably Professor John West. I was also fortunate to have the opportunity to become acquainted with the current Chair of GASACT (Group of ASA Clinical Trainees) Dr Ben Piper.

The Congress was held at the Darwin Convention Centre located on the newly re-designed Darwin Waterfront in close proximity to multiple restaurants, boutiques and aboriginal art galleries. The meeting had an impressive slate of review courses, plenary sessions, discussion panels and small problem-based learning discussions and workshops given by local and international experts. I was particularly excited to discover that Dr Bobbie-Jean Sweitzer from Chicago was giving multiple lectures in her main area of expertise and my area of interest, perioperative medicine. I especially enjoyed her plenary session talk entitled "Preoperative identification, evaluation and optimization of the highest risk patients", which touched on many of the health issues that plague anesthesiologists worldwide, particular back home where our population is not only aging but also becoming increasingly unhealthy.

An additional highlight of the meeting was The Kester Brown Lecture given by the esteemed Professor John West titled, "Severe hypoxia: Lessons from the summit of Mount Everest." It started off as a scientific account of the physiological and psychological effects of extreme altitudes on the human body. However, it quickly transitioned to an epic photo

essay of Professor West and his team's harrowing journey to the summit of Mount Everest in the quest for scientific data. It was also undoubtedly the best-attended lecture of the entire meeting and also, I thought, produced the best quote by Professor West himself: "If you are unable to mount a sufficient hyperventilatory effort, then you should forget about climbing Mount Everest and take up another hobby, such as gardening."

All in all it was an amazing trip and I can't wait to return Down Under. I truly appreciate the CAS' decision to give me this once in a lifetime opportunity. I hope many more Canadian residents will apply and take advantage of this wonderful opportunity in the future.



*To read the full report from Dr Decker, go to: <http://tinyurl.com/Dr-Decker-AUS>



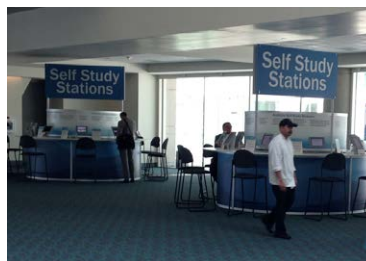
It was an honour to represent the CAS as the Resident Representative at the American Society of Anesthesiologists' Meeting 2015, and I am excited to report on what was an exceptional conference in San Diego!

The ASA Annual Meeting 2015 began with the Opening Session by the captivating speaker, Captain Michael Abrashoff, a former Navy Commander and author of the book entitled "It's Your Ship". Abrashoff told the story of his own leadership, when he took command of a poorly performing military ship and transformed it into a successful and productive one. He compared commanding in the Navy with the practise of anesthesia, saying that both industries are constantly changing, and that "it's not just enough to be technically competent nowadays".



A few topics of discussion for the meeting were introduced during the Opening Remarks. First, the Department of Veteran Affairs (VA) Office of Nursing Services is advancing a new policy document that would mandate independent practice for all Advanced Practice Registered Nurses. The ASA opposes including this in the **VHA Nursing Handbook**. Anesthesiologists at the meeting were encouraged to submit their stories demonstrating the importance of physician-led anesthesia care in support of the current physician anesthesia care model for veterans.

Second, the **Perioperative Surgical Home** (PSH) is a patient-centered model of care involving continuity of care for patients throughout the entirety of the perioperative period from the decision for surgery through recovery, discharge and beyond. It was designed to improve health, the delivery of health care and to reduce the cost of care. Anesthesiologists are uniquely positioned to be leaders in the PSH model because of their role in all stages of perioperative care.



Third, the **Anesthesia Incident Reporting System** is a nationwide online reporting system for adverse events in anesthesia, pain and preoperative care, and was designed by the Anesthesia Quality Institute (AQI) as

an educational tool for patient safety issues. These examples, among many others, were interesting and important topics of discussion throughout the meeting.

ASA San Diego 2015

Overall, Anesthesiology 2015 was an exceptional meeting. I am honoured to have represented the CAS Residents' Section, and am very appreciative that the CAS supports and sponsors resident involvement in the American and Australian annual meetings. One of the most important aspects of the meeting was initiating communication and collaboration with our colleagues in the American Resident Component, and I look forward to continuing to work with them on the go-forward so that our resident societies can share resources, ideas and support each others' initiatives. After an action-packed meeting, it has been great to come back to Ottawa, meet with our Residents' Section and begin planning our CAS Residents' Section Meeting for 2016. Here is looking forward to a great CAS Vancouver 2016 Meeting!



Dr Gita Raghavan (PG4, Queen's), Dr Elizabeth Miller (PG4, Ottawa) and Dr Sarah Tierney (PG4, MUN) enjoying the sun after the lectures!

*To read the full report from Dr Miller, go to: <http://tinyurl.com/Dr-Miller-ASA>





MELBOURNE 2016

**AUSTRALIAN SOCIETY
OF ANAESTHETISTS**
75TH NATIONAL
SCIENTIFIC CONGRESS

INVITED SPEAKERS



MRS CAROLYN CANFIELD

Carolyn Canfield collaborates as an independent citizen-patient internationally with clinicians, patients, managers, researchers and educators to embed the patient voice in improvement processes. Patient expertise can drive creativity and sustain system-scale transformation to meet the aspirations of both clients and practitioners for care excellence.



DR DAVID CANTY

Dr David Canty is an anaesthetist and Director of simulation and senior lecturer for the Ultrasound Education Group, Department of Surgery, University of Melbourne, where he researches and teaches a wide range of ultrasound techniques, with a particular interest in echocardiography. In his PhD he pioneered the benefits of transthoracic echocardiography in perioperative medicine, transformation to meet the aspirations of both clients and practitioners for care excellence.



PROFESSOR OLLE LJUNGQVIST

Professor Olle Ljungqvist received his medical degree and obtained his PhD on glucose metabolism in hemorrhage at the Karolinska Institutet in Sweden. He completed his residency and held several clinical positions in gastrointestinal surgery at the Karolinska Hospital and was appointed Professor of Surgery, Nutrition and Metabolism in 2005 at the Karolinska Insitutet.



PROFESSOR STANTON NEWMAN

Professor Stanton Newman is Professor of Health Psychology and Dean of the School of Health Sciences at City University London. He has published over 350 research papers and chapters as well as 18 books. One of his areas of specialisation is the impact of surgery and anesthesia on the brain. aspirations of both clients and practitioners for care excellence.

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No purchase necessary. The contest ends on December 31, 2015. The draw will take place on January 15, 2016. Total of one (1) prize to choose between a travel voucher worth \$30,000 (CAN) exchangeable for an eco-friendly trip from a travel agency chosen by The Personal, or a cheque for \$30,000 (CAN). Contest rules and details available at thepersonal.com/mywinningquote.

Auto Insurance is not available in Manitoba, Saskatchewan and British Columbia due to government-run plans.

When you give to CARF *you* invest in the future of our specialty

Congratulations to the 2015 CAS Research Award Winners



CAS Career Scientist Award
in Anesthesia

Dr. Sylvain Boet
University of Ottawa



Dr. Earl Wynands Research Award

Dr. James O'Leary
University of Toronto



New Investigator Research Award

Dr. Thomas Mutter
University of Manitoba



Dr. R.A. Gordon Research Award

Dr. Daniel McIsaac
University of Ottawa



Canadian Anesthesiologists'
Society Research Award

Dr. Nader Ghasemlou
Queen's University



The Canadian Journal of
Anesthesia Research Award

Dr. Beverley Orser
University of Toronto



CAS Research Award in
Neuroanesthesia

Dr. Lakshmikumar Venkat Raghavan
University of Toronto



Ontario's Anesthesiologists - CAS
Residents' Research Grant

Dr. Josh Bell
University of Toronto

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Canadian Anesthesiologists' Society

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