Message From the President
From the desk of the CMBES President, Martin Poulin

Greetings CMBES Members,

The Calgary conference is just about upon us so get your flights booked and register before it’s too late. Kelly Kobe and the Alberta Biomed’s have done a marvelous job putting this conference together so it will be a great gathering to share experiences and research from across the country.

Please be aware that the FDA has issued a “Request for Comments” on the servicing of medical devices by third party entities and original equipment manufacturers with the possible intent to create more regulations. It is the intent of CMBES professional affairs to respond formally to this petition as any changes in the Unites States ultimately affect how we do business in Canada. If you would like to contribute to this discussion, please contact the Secretariat.

Cheers,

Martin

Message du président
Du bureau du président de SCGB, Martin Poulin

Salutations Membres de la SCGB,

La conférence de Calgary est à nos portes donc c'est le temps de réserver votre vol et de vous inscrire avant qu'il ne soit trop tard. Kelly Kobe et les collègues "Biomed" de l'Alberta ont fait un excellent travail en mettant sur pied cette superbe conférence qui sera l'occasion d'un grand rassemblement pour partager des expériences et les dernières recherches biomédicales à travers le pays.

La FDA a émis récemment une « Demande de commentaires » sur l'entretien des dispositifs médicaux par des entités tierces et les fabricants d'équipement d'origine avec l'intention possible de créer plus de règlements autour de l'entretien des équipements. Le comité des affaires professionnelles de la SCGB a l'intention de répondre formellement à cette pétition étant donné que certains changements sur l'industrie des équipements médicaux aux États-Unis peuvent avoir de grandes incidences sur nos façons de faire au Canada. Si vous souhaitez participer à cette discussion, s'il vous plaît contacter le Secrétariat.

Cordialement,

Martin
CMBEC39 in Calgary – Check out the Agenda at a Glance
From the Desk of the Conference Chair, Kelly Kobe

Have you registered yet? Don’t miss out on the two keynote presentations, meaningful discussions, thought provoking conversations, amazing line-up of exhibitors, and so many networking opportunities – we are really excited to share it all with you in Calgary! Check out our Agenda at a Glance and plan your trip to Calgary.

Please log-in to your CMBES account to register for the conference. You do not have to be a CMBES member to have a CMBES Network account; please click here to join the CMBES Network and create your account; it is free!

Can't commit to 3 full days of learning and networking? We offer one-day registrations too. Please have a look at the agenda and register!

See you soon in Calgary!

CMBES Member Publication Spotlight
From the Desk of the Professional Affairs Committee, Andrew Ibey

Inadvertent overinfusion of norepinephrine using infusion pump loading dose

Andrew A.M. Ibey, Camille Ciarniello, Stephen Gorelik

Intensive and Critical Care Nursing (2015) 31, 375–379

Available online at www.sciencedirect.com

ScienceDirect

CASE STUDY
Inadvertent overinfusion of norepinephrine using infusion pump loading dose

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Accepted 16 December 2014

Inadvertent overinfusion of norepinephrine using infusion pump loading
dose

**Overview:** Clinical Engineering is well situated to do multi-disciplinary incident investigations in hospital. This Case Study was published in the Journal of Intensive and Critical Care Nursing by CMBES member Andrew Ibey. The case study describes the investigation techniques, findings that resulted in patient harm and corrective action taken by hospital staff.

**Abstract:** Programming infusion pumps has been recognised as a high-risk step and a source of adverse events (Nuckols et al.; Hyman, 2010). Literature describing infusion pump loading dose errors and Norepinephrine complications is scarce (Girard et al., 2010). This case study presents the first ever report of an inadvertent overinfusion of Norepinephrine due to the loading dose option on the infusion pump, and resulting cardiac arrest of the patient.

A patient was admitted to the emergency room and started on a Norepinephrine infusion inadvertently as a loading dose rather than a primary infusion. Historical values for the loading dose volume to be infused (VTBI) and primary rate were not adjusted during the setup. Eight hours and 58 minutes later, the loading dose VTBI reached 0 mL and the pump reverted to the historical primary rate of 999 mL/hour.

The event log showed that 37.1 mL of Norepinephrine was infused resulting in an equivalent calculated bolus dose of 1.8 mg administered in two minutes. The patient suffered a cardiac arrest and the infusion was stopped. No faults were found with the pump. Herein, we discuss our analysis of the pump event logs and propose further safety strategies and interventions.


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**Professional Affairs Update**

*From the Desk of the Professional Affairs Committee, Andrew Ibey*

**Membership Spotlight:** If you or your organization have published and it would be of interest to our CMBES membership, we’d like to know about it. Please contact the secretariat with your spotlight submissions!

Certifications: As spring blooms across Canada now is a time to think about a new beginning for your career! Why not get certified? There are many certifications to choose from Canadian Biomedical Engineering Technologist (CBET), Certified Healthcare Technology Manager (CHTM), and others. Please visit the cmbes.ca website and click on “Certifications” for more information.

**2016 Biomedical/Clinical Engineering Week**

National Biomedical and Clinical Engineering Week this year is May 22–28, 2016. We have developed a proclamation statement that can be used to circulate to your colleagues and
internal news related websites. The CMBES would like to thank each and everyone of you for contributing fully to our profession. Stand up and take a bow, this is your week! Keep up the good work!

2016 Partnership with ACCES
The CMBES would like to announce an exciting formalized partnership with the Atlantic Canada Clinical Engineering Society (ACCES). Together we agree to foster better communication, problem solving and synergies regarding common issues in biomedical/clinical engineering. This agreement includes a 50% discount to members of the other society. Please contact the secretariat.

Update from the 50th Anniversary Task Force
Tidimogo Gaamangwe (Co-Chair), on behalf of Amanda Saigeon, Task Force Secretary

As you are aware from previous communications, the Task Force plan was to publish the CMBES 50th Anniversary Commemorative Journal before the conference in Calgary. Although the Task Force has been working hard compiling the information towards this target, the scheduled release also depended on our partner’s (MediaEdge Publish) ability to solicit sufficient sponsorship through advertising space. Since most organizations were already committed to other events, such as CMBEC39, the decision was made, between CMBES and MediaEdge, to postpone the journal release to the Fall.

However, the Task Force did not want to leave you all wondering what is coming up in the journal. Therefore, a glimpse of some of the material, especially through the retro-newsletter snips, will be included in the May newsletter schedule to be released before the conference. We sincerely apologize for the delay in publishing the journal. We know that members are anxiously waiting to put their hands on this historic document. We will keep you informed. As always, if you have any suggestions or any documents that may be relevant to this work, please contact the Secretariat, Thank you.

Message from the CMBES Academic Chair
From the Desk of the Academic Chair, Tiago Falk

Dear colleagues,

It is with great pleasure that I assume the role of the CMBES Academic Committee Chair and welcome the committee's first member, Dr. Tohid Didar from McMaster University. The Academic Committee strives to enhance the relationship between the academic biomedical community in Canada and the Society. Our first order of business was to assist with the CMBEC'39 reviews and we are now coordinating the Special Issue of the Journal of Medical and Biological Engineering dedicated to exceptional papers coming out of our annual conference. We hope to see many of your submissions to the Special Issue! While we have lots planned for the coming year, we would love to hear your ideas and suggestions as to how we could better achieve our goals. And ... if you'd like to become a member of the Academic committee to help us achieve these goals, please do not hesitate to get in touch with me at tiago.falk@ieee.org.

Update from the Publications Committee

From the desk of Publications Committee Chair, Tidimogo Gaamangwe

Members may have noticed that the newsletter for the first quarter of 2016 has been delayed. The newsletter will be published just in time for CMBEC39. The delay was necessitated by the decision to include a section dedicated to snips from some CMBES Newsletters of bygone days. So, if you submitted an article and have been wondering where it is, wonder no more. A special newsletter is on the way!

As CMBEC39 is around the corner, we ask all members attending the conference to be on the lookout for newsletter story opportunities. While you tweet away during the sessions, please remember to capture moments that you can also share with the rest of us in the newsletter. Whether it is a short story or picture, we would be pleased to include your contributions in the next newsletter following the conference. You may also recall that CMBES is in the process of building a library of images. So, please go on and snap those medical device related images. If you are submitting images for the library project, please indicate accordingly.

On another note, we are always looking for feedback and suggestions for improvement. While you are at the conference, please make time for the AGM where all committees will be presenting their reports. This is your other opportunity to not only get a sense of what has been happening, but to also ask questions, suggest improvements and of course discuss how you can contribute. Also take the time to meet and thank your exec for all their efforts. Any comments or questions, please feel free to contact the Secretariat.

We look forward to hearing from you!
Have you been keeping up with the CMBES Forum? To join in, simply sign into your CMBES Network account and select “Forum” from the drop down box. Outlook users can also receive CMBES posts in their inbox by following some simple instructions. If you haven’t logged in recently, here’s some of what you’ve been missing:

Re: Recording Network Configurations of Networked Medical Device
Tuesday, April 12, 2016 by RobM
We capture the following information using AIMS software, which incidentally, allows for multiple network cards...

Re: Calibration of bilirubinometer
Friday, April 08, 2016 by GordonJasechko
René, We overcame the problem by comparing the Draeger meter results with clinical laboratory results. I’ve attached a summary...

Re: GE i–Collect Software & B850 Carescape Monitors
Friday, April 08, 2016 by CarlAnderson
We are using the iCollect software with our B850s in the ICU at Foothills Medical Centre for a research study...

WiFi Validation for wireless medical systems
Wednesday, April 06, 2016 by RobM
In our institution we use a WiFi medical system for monitoring patient parameters. As technology advances more of these...

Problems with erratic NIBP readings on Philips monitors (MP5)
Monday, April 04, 2016 by Akrivoy
Hello, We have been experiencing problems with erratic NIBP readings on Philips MP50s that were recently upgraded to software Rev K...

Re: Obsolescence Policies
Friday, April 01, 2016 by Andrew Ibey
In the province of BC, we have a CMMS team that manages End–of–Life (EOL), End–of–Support (EOS) and Alerts for medical equipment...

Re: Dedicated Clinical Engineers
Hi Mike, In the province of BC we have 7 health authorities. In Vancouver where four of the Health Authorities are consolidated...

Re: Dialysate water testing
Hi Bernie, I sent your question to one of our dialysis technologists. Here was the reply...

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UPCOMING EVENTS

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Interested in publishing your story in the monthly e-Bulletin or the quarterly Newsletter? [Contact us](#) to discuss your topic!