

# CESO 2021 Annual Conference Program (Draft)

January 10, 2021

**Monday, February 8, 2021**

Time	Topic	Speaker	Speaker Bio	Presentation Description
12:00-12:05	Welcome and Opening Remarks	Bill Gentles Mario Ramirez		
12:05–1:00	<b>Keynote Address</b> Remote Patient Monitoring as Health System Strategy	Chris Gutmann <sup>1</sup> Samantha Herold <sup>2</sup> Pamela Hoffman <sup>3</sup>	(1) Executive Director in ITS for Clinical Engineering, Yale New Haven Health Services (2) Clinical Engineer, Yale New Haven Hospital (3) Medical Director of Telehealth Services at Yale New Haven Health Services and Yale Medicine	Traditional healthcare is experiencing a major shift from expensive medical technology and facility-delivered services to home-based care for improved outcomes and cost reduction. Remote patient monitoring (RPM) is a major driver of this transition. As organizations begin to implement new or bolster existing RPM programs, there are many technical and operational considerations that will impact success. Join us for a discussion on obtaining clinical buy-in, evaluating technologies, and preparing your hospital or health system for the new-wave of patient-centered care.
1:00–1:15	Break			
1:15 – 2:00	Update On Fluorescence Imaging Devices	Ralph DaCosta	Dr. Ralph DaCosta, PhD (University of Toronto, Canada), is a biomedical physicist with over 30 years of experience in the field of biophotonics, optical physics and molecular imaging. He is a Scientist at the Princess Margaret Cancer Center and Techna Institute, UHN, where he leads a molecular imaging program with a focus on diagnosis and treatment of cancer and other diseases. He is an Assistant Professor in the Faculty of Medicine, University of Toronto. He's held the Cancer Care Ontario Chair in Cancer Imaging and was the 2014 UHN Inventor of the Year. He is internationally recognized for his expertise and biophotonics and molecular imaging as well as contributions to improving the diagnosis and treatment of cancer and other diseases employing photonics-enabled technologies. Dr. DaCosta is Founder, Chief Scientific Officer and Board Director of MolecuLight Inc., a Toronto-based medical imaging company that has commercialized his discoveries and inventions at UHN in wound infection and surgical oncology as well as other areas (e.g. food safety, cosmetics). He is also CEO, CTO and Board Director of SBI Canada which is globally commercializing (fluorescence) image-guided surgery technology invented by Dr. DaCosta.	Dr. DaCosta will deliver an update on the development of MolecuLight's wound imaging devices and MolecuLight Oncology's image-guided oncology surgery device.
2:00–2:45	Cyber Risk Mitigation in an IoMT World	Kashif Parvaiz	Chief Information Security Officer at UHN	Cyber attacks against healthcare institutions are dramatically increasing ever year. The impact of these cyber incidents is more disruptive to hospital operation than ever before due to the wide use of network-connected clinical devices in patient care. This session will describe why healthcare organizations are targeted, review IoMT cyber risks, describe how these risks can be mitigated and provide a high-level implementation plan.

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## **Tuesday, February 9, 2021**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>	<b>Speaker Bio</b>	<b>Presentation Description</b>
12:00–1:00	Modelling the Epidemiology of COVID	David Naimark	Dr. Naimark is an associate professor, Department of Medicine and Institute of Health Policy, Management and Evaluation (iHPME), and full member of the School of Graduate Studies, University of Toronto. He joined the Faculty of Medicine as a staff nephrologist at Sunnybrook Health Sciences Centre in 1997 with an interest in the epidemiology of chronic kidney disease (CKD). Dr. Naimark is an active member of the CKD Prognosis Consortium (CKD-PC), an international group of 45 databases containing 11 million CKD patients. He holds a cross-appointment in the Institute of Health Policy Management and Evaluation in the Dalla Lana School of Public Health at the University of Toronto. He is director of the advanced decision analysis course at iHPME and has taught or mentored seventy graduate students with respect to sophisticated decision modeling techniques since his appointment.	
1:00–1:15	Break			
1:15 – 2:30	Technologist Problem Solving	Various Speakers		Various troubleshooting scenarios and solutions

## **Wednesday, February 10, 2021**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>	<b>Speaker Bio</b>	<b>Presentation Description</b>
12:00–1:00	Student Presentations	Various Clinical Engineering Graduate Students		Various topics
1:00–1:15	Break			
1:15 – 3:00	Student Posters	Various Biomedical Engineering College Students		Various topics

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**Thursday, February 11, 2021**

Time	Topic	Speaker	Speaker Bio	Presentation Description
12:00–1:00	Vanessa’s Law and mandatory reporting	Presenters from Health Canada, Sick Kids Hospital		Vanessa’s Law and mandatory reporting – roundtable discussion
1:00–1:15	Break			
1:15 – 2:00	Translating needs into action for telehealth and remote patient monitoring: overview of how	Pamela Hoffman	Dr Hoffman is medical director of Telehealth Services at Yale New Haven Health Services and Yale Medicine. She works with a multidisciplinary team across ambulatory and inpatient settings to advance telehealth for the organization. She has clinical responsibilities in the pediatric emergency department, evaluating children in behavioral health crises. She also works at the Yale Center for Medical Informatics where she is the co-training director for the Masters program in Health Informatics.	
2:00-2:30	Update on the Ontario Surplus Hospital Equipment Network (OSHEN) project	Murat First Tim Wu		
2:30-3:00	Improving Patient Outcomes and Experience by Moving Beyond Patient Portals	Mark Berry		As we increasingly embrace an online world to complete day-to-day tasks, from banking to managing the lighting of our home or the temperature set by the thermostat, one thing is abundantly clear: Canadians want to be informed and involved when it comes to their health especially in the new COVID world. More and more patient portals are coming online across the country in an effort to address this desire – but a question emerges: What problem are healthcare providers solving by sharing this information with their patients? Electronic health records assist healthcare providers in their quest to provide the best care possible but how might we capitalize on patients being able to access their own health records to then communicate better with them, and forge a true partnership towards a better health journey and outcome together? The HITS eHealth Office has led the regional deployment of a provincially-recognized patient portal, yielding 60,000 patient enrollments within a six-month time period. Through this work, we’ve gained significant insight into this new and developing area of patient engagement, this presentation will explore the communication shift that needs to happen that goes beyond simply deploying a patient portal and the registration of patients, to truly advance the relationship between healthcare provider and patient.

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**Friday, February 12, 2021**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>	<b>Speaker Bio</b>	<b>Presentation Description</b>
12:00–12:45	PM Practices and Alternative Equipment Maintenance	Sarah Bruch Adeel Alam		
1:00–1:15	Break			
1:15–2:00	Clinical Engineering Society Of Ontario Annual General Meeting	Bill Gentles Amin Chalabi	Bill Gentles is a Biomedical Engineering consultant and is President of the Clinical Engineering Society of Ontario. Amin Chalabi is a Biomedical Engineering Technologist at the Hospital for Sick Children in Toronto and is the Society treasurer.	All welcome
2:00-2:45	Infection prevention and control	Speakers from Sick Kids Infection Prevention and Control and Occupational Health		
2:45-3:00	Closing remarks and prizes	Bill Gentles Mario Ramirez		