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TECVANCOUVER2019

Technologies in Emergency Care

CONFERENCE | NOVEMBER 2, 2019



Photo courtesy of VGH + UBC Hospital Foundation

Saturday, November 2, 2019

8:30 AM - 4:30 PM

Vancouver General Hospital
Paetzold Auditorium
855 W 12th Avenue
Vancouver, B.C.

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and Instagram

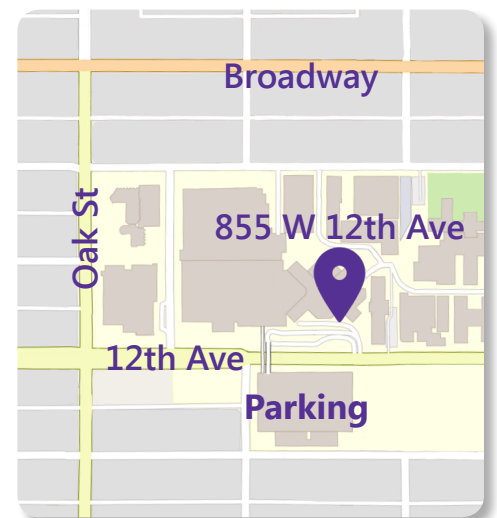
Organized **by clinicians for clinicians**, TEC Vancouver brings health professionals, health organizational and industry leaders together to **apply innovations to real life challenges in primary and emergency patient care** in BC and beyond.

If you attend this conference, you will:

- See applications of innovations in health care and education
- Hear emerging trends from international experts
- Explore healthcare gaps and technological solutions
- Network & share ideas with like-minded colleagues



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THE UNIVERSITY OF BRITISH COLUMBIA
Department of Emergency Medicine
Faculty of Medicine

Vancouver Coastal Health
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Welcome from the Conference Chairs

Dear Colleagues and Friends,

On behalf of TEC Vancouver, it is our pleasure and honour to invite you to attend the inaugural Technologies in Emergency Care (TEC) conference taking place in Vancouver, Canada on Saturday, November 2, 2019 at Vancouver General Hospital.

Conceived and organized by clinicians for clinicians, TEC Vancouver fills a niche to bring together clinicians, health professionals & academicians, decision & policy makers, and industry.

We look forward to improving health care delivery by stimulating innovations and partnerships to forge tangible, impactful clinical implementations of technology in health care settings including the Emergency Department and transitions to community and home based care.

We do hope to see you there.

With warm regards,

Kendall and Chad



Dr. Kendall Ho (Co-Chair)

Lead, Digital Emergency Medicine, The University of British Columbia (UBC)
Professor, Department of Emergency Medicine, UBC
Emergency Physician, Vancouver General Hospital (VGH)



Dr. Chad A. Kim Sing (Co-Chair)

Associate Vice President of Medicine, Quality & Safety, Vancouver Coastal Health
Attending Emergency Physician, VGH & UBC
Clinical Associate Professor, Department of Emergency Medicine, UBC
Physician Leadership and Administration Fellow, UBC-Brigham Health-Harvard

Conference Overview

Conference Themes

Innovations in Patient Care

What do patients and caregivers care about, and how can innovations improve their experiences? How do we apply big data at the coalface of clinical care? Eye-opening approaches and stimulating ideas will be put forward and discussed.

Specific topics include:

- Data analytics techniques to change chronic disease management
- Understanding and supporting patient and caregiver journeys
- Exploration of interdisciplinary collaboration for patient centred care



Health System Transformation

Decision-making from the perspective of policy makers will be explored as a method of transforming health systems. Speakers from health organization and industry leadership will explore the driving force of industry on innovation, and how clinicians can be involved and where they can exert influence.

Specific topics include:

- Transformational impact of the digital cloud for data driven health care
- Cutting edge digital health transformation in BC
- Dynamic clinician networks to address high quality care of patients



Revolution in Provider Communication & Education

Preparation for a technology-enabled emergency and primary care workforce and the leveraging of innovations to stay current will be delved into by key thought leaders. Topics to be highlighted include current must-have educational tools, and promising strategies for health professionals.

Specific topics include:

- Supercharging textbooks and clinical learning via Social Media
- Mobile learning in action: What does this look like?
- Embedding learning into practice using Virtual Health and Simulation



Agenda at a Glance

Morning:

Innovations in Patient Care

- Keynote Presentations
- Invited Speakers
- Abstract Presentations

Mid-Day:

Health System Transformation

- Keynote Presentations
- Invited Speakers
- Abstract Presentations

Lunch (included),
networking, &
sponsor booths

Early Afternoon:

Revolution in Provider Communication & Education

- Keynote Presentations
- Invited Speakers
- Abstract Presentations

Late Afternoon:

Panel Discussion

Integrating innovations into
health practices & the health
system: What does it take?

Keynote Speakers



Dr. Shez Partovi, MD

Worldwide Lead, Healthcare, Life Sciences, Genomics, Amazon Web Services

Stay tuned for the announcement of this highly anticipated keynote talk!

Dr. Shez Partovi obtained his medical degree from McGill University and completed his neuroradiology subspecialty training at Barrow Neurological Institute. His undergraduate program at UBC was in Life Sciences and Computer Science. He is a serial entrepreneur and has launched a number of health IT companies. After a decade of clinical practice, Dr. Partovi transitioned into an executive role at the 4th largest health system in the US, where he served as its Chief Digital Officer/SVP of Digital Transformation. Dr. Partovi joined Amazon Web Services in 2018 as the Worldwide lead for Healthcare, Life Sciences and Genomics.



Professor Kelvin K.F. Tsoi, BSc PhD

Research Associate Professor, Stanley Ho Big Data Decision Analytics Research Centre, Chinese University of Hong Kong

Associate Professor, Jockey Club Institute of Ageing & School of Public Health and Primary Care, Chinese University of Hong Kong

President, International Society of Digital Health (ISDH)

Professor Tsoi will discuss how Digital Health reduces health system burden by applying machine learning on blood pressure variation to predict the risk of hospitalization among hypertensive patients.

Prof. Kelvin Tsoi is a Digital Epidemiologist and Data Scientist. He is the President of the International Society of Digital Health. His Doctoral degree in Medical Sciences and Bachelor degree in Statistics were obtained from the Chinese University of Hong Kong. His research focuses on Digital Health, including data capturing techniques, machine learning application and sensor data with wearable devices. Prof. Tsoi is currently conducting research on the non-communicable diseases in ageing population with digital dementia screening and machine learning on blood pressure variability.

Invited Speakers



Dr. Wayne Choi, MD FRCPC

Emergency Physician, Royal Columbian Hospital

Member of the Board, Section of Emergency Medicine, Doctors of BC

A patient's emergency department (ED) visit is often very stressful: Why am I waiting so long? What happens during the visit? What do I need to know after I'm discharged? Dr. Choi will discuss how he and his team are striving to improve the patient's experience via an app.

Dr. Wayne Choi is a full time Emergency Physician at the Royal Columbian Hospital. Prior to medicine, he worked in the software industry with a focus on user experience. Now, Wayne combines his skillset in both, holding a special interest in the intersection of technology, innovation, and medicine. He has designed an ultrasound logging app for education, EchoLog, used across the country. He is also on the board of the Section of Emergency Medicine of Doctors of BC.

Keynote Speakers



Dr. Douglas Kingsford, BHB MBChB PhD FRNZCGP

Chief Medical Information Officer, Digital Health Initiative, BC Ministry of Health

Driven by a need and opportunities to improve quality of care, improve population health, increase access to care, provide better patient and clinician experience, and improve clinician productivity and overall system efficiency, the Ministry of Health has launched the provincial Digital Health Initiative. Dr. Kingsford will present the DHI and its implications for care delivery.

Dr Kingsford is Chief Medical Information Officer of the Provincial Digital Health Initiative with the Ministry of Health and co-chair of the Information Privacy and Security Standing Committee. He is a primary care physician with an Electronic Engineering PhD in artificial intelligence, with particular interests in artificial intelligence, machine learning, interoperability, integrated care and workflow coordination.



Tolga Tarhan, MBA

Chief Technology Officer, Onica

The cloud is changing how the world innovates. In this talk, Tolga will explore how the cloud is powering the next generation of medical devices and research.

As Onica's Chief Technology Officer, Tolga Tarhan leads the company's technological vision by pushing innovation and driving strategy for product development and service offerings. With two decades of experience leading and hands-on software development, his cross-functional technical expertise gives him unique insight into the best approaches for building complex systems and applications. Tolga has an MBA from Pepperdine University and helps customers strategize beyond technology solutions to improve their businesses and grow their bottom line.

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Invited Speakers



Dr. Jim Christenson, MD FRCPC

Professor and Head, Department of Emergency Medicine, University of British Columbia Faculty of Medicine

Executive Lead, BC Emergency Medicine Network

During this presentation, Dr. Christensen will discuss the BC Emergency Medicine Network and its impact on Emergency Medicine in BC.

Dr. Jim Christenson is an emergency physician at St. Paul's Hospital in Vancouver. He is a Professor and Head of the Academic Department of Emergency Medicine at the University of British Columbia. He has a wide range of experience in emergency care clinical research, related to clinical decision rules and resuscitation.

Dr. Christenson leads a team that built and launched the BC Emergency Medicine Network (EMN) to facilitate knowledge sharing and clinical support for all emergency practitioners in British Columbia. It is growing quickly and utilizing technology to change the way emergency care providers in all emergency settings are supported and how they communicate new knowledge and practice change.

Section 3: Revolution in Provider Communication & Education

Early
Afternoon

Keynote Speakers



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Dr. Teresa Chan, HBSc BEd MD FRCPC MHPE DRCPC
Emergency Physician, Hamilton Health Sciences
Base Hospital Physician, Centre for Paramedic Education and Research
Assistant Professor, McMaster University

Dr. Chan will discuss the ins and outs of the current models for operating FOAM organizations and reveal some of the systemic threats, and invite participants to consider how online continuing education will evolve in the coming years.

Dr. Teresa Chan is an assistant professor at McMaster University. Locally, she is the Specialty Committee Chair of the RCPSC Clinician Educator Area of Focused Competency Diploma program, and the McMaster Program Director. Dr. Chan is one of the founding members of the CanadiEM website, the MedEdLIFE research collaborative, and a key member of the METRIQ Study Group. She is the Chief Academic Officer of the international Faculty Incubator program for the Academic Life in Emergency Medicine (ALiEM) group. Dr. Chan is also interested in developing & evaluating medical education innovations.



Dr. Robert DiRaddo, PhD
Principal Officer & Section Head, National Research Council – Simulation and Digital Health

Robert will present his group's current research work in digital therapeutics and digital monitoring, with particular emphasis on projects with the B.C. ecosystem and work of relevance to emergency medicine.

Robert DiRaddo obtained his PhD in Engineering from McGill University in Montreal. He started his career in the private sector working at two multi-national companies. He then moved to the NRC starting as an Assistant Research Officer and eventually progressed to Principal Research Officer and Section Head, Simulation and Digital Health at NRC. He currently oversees four biomedical software research teams that work in a variety of projects in collaboration with clinicians and industry. Projects his researchers have worked on range from the development of a surgical skills simulator, virtual-reality cognitive care and remote interactive patient management.

Invited Speakers



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Dr. Rob Power, EdD
President, Power Learning Solutions
President, International Association for Mobile Learning
Adjunct Professor of Educational Technology, Athabasca University, Cape Breton University, Mount Royal University, Ontario Tech University, University of Manitoba

Dr. Power will discuss opportunities to leverage mobile technologies for just-in-time learning for emergency health care professionals, and to improve communication with patients. Dr. Power will also identify some of the pitfalls with the use of mobile technologies in emergency patient care.

Rob Power is the President of Power Learning Solutions. He also teaches graduate-level educational technology courses in distributed learning contexts at 4 major universities. Dr. Power has taught information and communications technology at the K12 and post-secondary levels, and has worked as an instructional developer in the higher and continuing education sectors. Since 2013, he has taken a leading role with the International Association for Mobile Learning (IAMLearn), and has served as the Chair of the 12th World Conference on Mobile and Contextual Learning (mLearn 2013). Dr. Power was elected President of the Executive Committee of IAMLearn at mLearn 2017.



[@aiktaverma](#)

Dr. Aikta Verma, MD MHSc FRCPC

Chief, Department of Emergency Services, Sunnybrook Health Sciences Centre
Assistant Professor, University of Toronto

Dr. Verma will be speaking about how they use physician iPhones at Sunnybrook Hospital to improve flow through the Emergency Department.

Dr. Aikta Verma is the Chief of the Department of Emergency Services at Sunnybrook Health Sciences Centre, a tertiary-care, academic hospital in Toronto. As the first woman in this position, she strives to address issues around bias, diversity, equity, and wellness. She completed a Master's Degree in Health Administration, with a special interest in Quality Improvement, and she conducted groundbreaking research about push-alert notifications to ED physician smartphones. She is an Assistant Professor at the University of Toronto, and has held several leadership roles in the Emergency Medicine residency training program, including Assistant Program Director.



Dr. John Pawlovich, MD FCFP

Program Coordinator, REAP (Rural Education Action Plan, BC)
Medical Director, Carrier Sekani Family Services
Clinical Professor, Department of Family Practice, University of British Columbia
Sector Lead, Rural Coordination Center of BC (RCCbc)

Dr. Pawlovich will share his experience using simulation in the rural emergency room using virtual care technology

Dr. John Pawlovich is a Clinical Professor in the Department of Family Practice at University of British Columbia (UBC). He has worked in many rural and remote sites across Canada. Over the last twenty plus years, his interest in Indigenous Health has evolved with a focus of bringing innovative primary care and specialty services onto reserve to reach the people most in need. Using new technology such as telehealth from his home office in Abbotsford, British Columbia, Dr. Pawlovich is able to connect to multiple remote aboriginal communities to help provide the daily primary care they deserve and need.

Dr. Pawlovich is a co-founder and co-lead of the BC Virtual Health Grand Rounds and the e-Health theme lead for the UBC Faculty of Medicine. He speaks both nationally and internationally on virtual healthcare solutions and systems.

Feature Panel

Integrating innovations into health practices & the health system:

What does it take?

Late
Afternoon

We all have ideas on how to use innovations to improve patient care and health system transformation. But **what does it take to make these ideas and products come to life?** How do the different stakeholders work together to create and facilitate true and lasting impact?

This panel features 3 conference keynote speakers, **Dr. Shez Partovi, Dr. Teresa Chan, & Dr. Robert DiRaddo**, as well as other **experts in the healthcare innovation space**, shown below, all of whom will help **make sense of the diverse roles involved**, and **identify key steps** to translate innovations to real-life practices.



Darcia Pope, BComm MHA

Vice President and Chief Transformation Officer, Vancouver Coastal Health

Darcia is Vice President and Chief Transformation Officer at VCH, where she oversees the strategic and operational planning processes, supports the measurement and realization of enterprise-wide strategic initiatives and leads the Innovation Portfolio. Darcia joined VCH in 2002 as Director of Enterprise Services in IMITS before moving into the new position of Executive Director of Transformation focusing on Workforce Optimization, Primary and Community Systems projects, and Strategic Initiatives. Prior to joining VCH, she held roles at St. Paul's Hospital and was the Change Leader for the amalgamation of Providence Health Care.



Dr. Ryan C.N. D'Arcy, EngL BSc MSc PhD

President and Chief Scientific Officer, HealthTech Connex, Inc.

Professor & BC Leadership Chair, Faculty of Applied Sciences, Simon Fraser University
Surrey Memorial Hospital Fdn. BC Leadership Chair in Multimodal Tech. for Healthcare Innovation
Head, Health Sciences and Innovation, Surrey Memorial Hospital

Dr. Ryan C.N. D'Arcy, EngL is neuroscientist and entrepreneur. He co-founded both the Health and Technology District and Health Tech Connex in BC. He is an Engineer Licensee in neurotechnology, and did his post-doctoral training in medical imaging physics at the National Research Council's Institute for Biodiagnostics. He spent over a decade at the NRC, leading the development of Atlantic Canada's biomedical imaging cluster. In 2012, he began developing BC's health technology innovation cluster and continued translational neuroimaging and neurotechnology initiatives in point of care technologies, functional MRI, MEG, and EEG monitoring, and advanced multimodal neuroimaging R&D.

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Megan Stowe, RN BN MScN

Executive Director for Virtual Health and Clinical Education, Vancouver Coastal Health

Megan Stowe is the Executive Director for Virtual Health and Clinical Education at Vancouver Coastal Health Authority. Holding previous roles such as Chief Clinical Information Officer, Clinical Director of Redevelopment and Provincial Director of Operations Megan has become passionate about transformation in healthcare through the intersection of leadership, quality improvement, education and technology. Megan has previously led the implementation of electronic documentation and is currently leading Vancouver Coastal Health's Virtual Health transformation.



Dr. Damian Claydon-Platt, MBBS GradDip InfSys PhD CHIA MACHI AFRACMA CPHIMS-CA

Chief Clinical Information Officer, IMITS VPP, VCH, PHSA, & PHC

Executive Lead, Clinical Systems + Transformation Project, CST

With 20 years of clinical experience in intensive care and 5 years as Chief Clinical Information Officer (CCIO) at large healthcare organizations, Damian Claydon-Platt is currently the Executive Lead of the Clinical Systems + Transformation project. In this role, he is working to improve the technology ecosystem within healthcare, to support improvements in safety, quality and efficiency, as well as positioning the project to take advantage of the numerous transformation opportunities presented by digitization. He is deeply passionate about the digital transformation of healthcare at all levels.

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VGH & UBC Hospital Foundation is *the* philanthropic engine for health care innovation and transformation in British Columbia. As the primary philanthropic partner to Vancouver Coastal Health (VCH) — BC's largest health authority — the Foundation partners with donors to drive innovation and sustainable health care at Vancouver General Hospital (VGH), UBC Hospital, GF Strong Rehab Centre, Vancouver Coastal Health Research Institute (VCH Research Institute), and Vancouver Community Health Services.

Platinum Conference Sponsors



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Onica is a global technology consulting company at the forefront of cloud computing. Through collaboration with Amazon Web Services, we help customers embrace a broad spectrum of innovative solutions. From migration strategy to operational excellence, cloud native development, and immersive transformation, Onica is a full spectrum integrator.



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This Canadian-owned company trades on the NYSE and TSX and has 74,000 consultants across the globe. Our BC team, located in Vancouver and Victoria, is a major IMIT partner to organizations across the BC Health Sector, helping them to empower patients and clinicians through analytics, digital transformation, and innovation.

Conference Organizers



THE UNIVERSITY OF BRITISH COLUMBIA
Department of Emergency Medicine
Faculty of Medicine

UBC Digital Emergency Medicine

Digital Emergency Medicine is a research unit in the UBC Faculty of Medicine Department of Emergency Medicine, with the goal of introducing, researching and implementing technology innovations in emergency and primary care with their interdisciplinary partners to improve people's health and strengthen health systems.



VGH+UBC Hospital Foundation

VGH & UBC Hospital Foundation is *the* philanthropic engine for health care innovation and transformation in BC. As the primary philanthropic partner to VCH — BC's largest health authority — the Foundation partners with donors to drive innovation and sustainable health care at VGH, UBC Hospital, GF Strong Rehab Centre, VCH Research Institute, and Vancouver Community Health Services.



Department of Emergency Medicine, Vancouver General Hospital (VGH), VCH

The Emergency Department at Vancouver General Hospital cares for over 95,000 patients per year and is a Level 1 Trauma Centre. VGH is a 955 bed adult tertiary care hospital focusing on tertiary, trauma, and neurological care.



Vancouver Coastal Health

Vancouver Coastal Health Authority (VCH) is a world class, award winning health care organization delivering innovative medical care, research and teaching. It provides primary through quaternary care, home and community care, mental health and substance use services, as well as population and preventive health to over 1.25 million British Columbians.

Conference Details

Registration

All conference attendees are asked to **register online** at: digem.med.ubc.ca/events 

Conference Fees

- **General Admission** – Early Bird (Before September 15, 2019): **\$175**
- **General Admission** – Regular Rate (After September 15, 2019): **\$225**
- **Allied Health Professionals & Students*** – Early Bird (Before September 15, 2019): **\$75**
- **Allied Health Professionals & Students*** – Regular Rate (After September 15, 2019): **\$85**

**The reduced rate applies to nurses, residents, medical students and allied health professionals. Please provide proof of your status at our registration desk during check-in on the conference day.*

Who should attend TEC Vancouver?

Conference registration is open to:

- Allied Health Professionals
- Health Administrators & Policy Makers
- Health Professional Trainees

Industry leaders interested in participating are invited to contact digem.assistant@ubc.ca for corporate involvement.

Organizing Committee

Committee Co-Chairs

Dr. Kendall Ho

Lead, Digital Emergency Medicine, UBC;
Prof., Dept. of Emergency Medicine, UBC;
Emergency Physician, VGH & UBCH

Dr. Chad A. Kim Sing

Associate Vice President of Medicine,
Quality & Safety, VCH; Emergency
Physician, VGH & UBCH; Clinical Associate
Prof., UBC; Physician Leadership and
Administration Fellow, UBC-Brigham
Health-Harvard

Committee Members

Dr. Noah Alexander

Emergency Physician, VGH & UBCH

Nadia Chowdhury

Product Manager, Thrive Health

Zena Davidson

Lara Gurney

Nurse Clinician, Emergency Dept., VGH

Susan Harrison-Salt

Head Nurse Educator, Emergency Dept.,
VGH

Lori Korchinski

Director, Clinical Operations, Emergency,
Trauma & Critical Care, VGH

Allan Lai

Nurse, Emergency Dept. & ICU, VGH

Dr. Christopher Lee

Associate Department Head & Medical
Director, Emergency Dept., VGH & UBCH;
Lead Physician, Disaster Management,
VGH; Emergency Physician, VGH & UBCH

Dr. Heather C. Lindsay

Department Head and Medical Director,
Emergency Dept., VGH & UBCH; Clinical
Assistant Prof., Dept. of Emergency
Medicine, UBC; Emergency Physician, VGH
& UBCH

Lori Quinn

Patient Services Manager, Emergency
Dept., VGH

Alexia Simeoni

Head Nurse of Operations, VCH

Dr. Kenneth Van Dewark

Emergency Physician, VGH & UBCH

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Lisa Rasmussen

Event Coordinator

Jamie Vanden Broek

Communications Coordinator

VCH = Vancouver Coastal Health

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UBC = University of British Columbia

UBCH = UBC Hospital

Contact Information

If you have any questions, please don't hesitate to contact us:

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Email: digem.assistant@ubc.ca

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