

LABCON2019 – Session Details

Sunday, May 26, 1015-1130

F01: Working in Sierra Leone during the Ebola crisis

Speaker(s):

Sgt. Jean-Sebastien Pellan, MLT/TLM

Category

Transfusion Science

Learning Outcomes

1. Explain various safety procedures involved with Ebola
2. Describe Ebola symptoms
3. Canada's involvement in Freetown, Sierra Leone
4. Origins of the virus
5. Current situation in West Africa

Session Description

Join me on this journey to discuss what it was like to be a medical laboratory technologist working in Freetown, Sierra Leone, during the 2015 Ebola crisis. Come explore our roles, impact and challenges in the laboratory as we collaborated with international NGO's, the British military, the NHS and the CAF.

Speaker Bio

Jean-Sebastien Pellan completed the medical laboratory program from the Shawinigan College in Quebec (2008) and then went on to work in biochemistry and hematology at the Montreal Children's Hospital. Looking for excitement and adventure, he then went on to join the CAF in 2011 and has worked in five provinces, on overseas missions in Sierra Leone, Lebanon and even on an American Navy ship all as a medical laboratory technologist. Passionate about quality, he has been granted by the CSMLS a certificate of Continuing Professional Studies in Medical Laboratory Quality Management and has completed the certificate course in Laboratory Quality Management from the University of British Columbia. Currently enrolled in university part time to finish a certificate in health care management, he wishes to someday have a larger impact in the world of medical laboratory.

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F02: Fluid morphology

Speaker(s):

Jonaki Manna, MD, FRCPSC

Category

Cytology, Hematology

Learning Outcomes

1. Describe the types of fluids analyzed and normal cells present
2. How to morphologically screen for various pathologies in fluids
3. Identify abnormal cells and understand various malignancies that can present in fluids
4. Understand the types of microorganisms that may be seen in fluids

Session Description

Analysis of various fluids, including peritoneal, pleural, pericardial, CSF, synovial and aspirates, can be a useful screening tool leading to the efficient diagnosis of malignancies and infections. There is biochemical and hematologic testing that can be performed on these fluids. This presentation will focus on the microscopic/morphologic evaluation of fluids especially as emphasis is usually more on peripheral blood and marrow morphology and less on fluid morphology.

Speaker Bio

Dr. Manna has practiced hematopathology for about a dozen years in Victoria, British Columbia. She recently moved to Eastern Canada and is currently practicing in a similar setting at the Moncton Hospital. Jonaki's specialty includes the diagnosis of hematologic disorders as well as transfusion medicine; she has specific interests in hereditary hematologic disorders as well as in teaching. Dr. Manna regularly conducts rounds and has taught lab technologists, medical students, residents and other staff. Her training includes medical school at the University of British Columbia, Vancouver, hematopathology residency at University of Alberta Hospital, Edmonton; and a pediatric hematopathology fellowship at British Columbia Children's Hospital, Vancouver. She is delighted to have this opportunity to practice on the opposite coast and also to continue her passions in dance and music.

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F03: Ethics in the lab

Speaker(s):

Laura Zychla, CSMLS Researcher
Christine Nielsen, BHA, MLT, CAE

Category

Ethics

Learning Outcomes

TBA

Session Description

TBA

Speaker Bios

Laura Zychla holds research positions with the CSMLS and Cancer Care Ontario. She has an extensive consulting background in research and analysis, with a focus on creating evidence-based health and education policy for the applied health professions. She has been highly involved in the creation of competencies for the Clinical Specialist Radiation Therapist and Personal Support Worker professions. Recently, for the medical laboratory profession, she has lead projects involving mental health knowledge and tool production, fostered national collaboration through the creation of the 'Simulation Knowledge Exchange - Research Network', helped create ethics based policy to support professionals and is continuing to advance knowledge transference through involvement in news curation and educational resource initiatives.

Christine Nielsen became Chief Executive Officer of the Canadian Society for Medical Laboratory Science in 2010. She is a medical laboratory technologist, with a degree in Health Administration, is a Certified Association Executive with a Certificate of Mastery in Prior Learning Assessment from the Council for Adult and Experiential Learning at DePaul University in Chicago. Christine is currently completing an MBA from the Edinburgh School of Business, Scotland.

LABCON2019 – Session Details

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F04: A human factors and analytical assessment of HbA1c point-of-care testing in a pediatric diabetes clinic

Speaker(s):

Johanna Thayer, BSc, MLS Student

Kes Carson, BSc, MLS student

Category

Point-of-Care

Learning Outcomes

1. Describe the importance of point-of-care testing (POCT)
2. Discuss the analytical assessment and statistical analysis performed in the study and the significance of the results obtained
3. Gain a greater understanding of the importance of human factors engineering in health care with an emphasis on medical devices and quality improvement
4. Discuss how human factors was compared in the HbA1c study and used for systems improvement in a pediatric diabetes clinic
5. Discuss how both the analytical and human factors assessments amalgamated for a procurement suggestion

Session Description

Point-of-care testing (POCT) is taking testing out of the traditional laboratory into the clinical/bedside setting. During this presentation, we will outline how this transition is being managed, through our unique research in the Pediatric Diabetes Clinic at the University of Alberta Hospital. We will outline our novel approach to performance analysis of two HbA1c POCT analyzers and initiation of a quality improvement plan. By combining analytics and a human factors perspective, we were able to suggest a procurement option based on a whole health team approach. By the end of this session, participants should be able to understand how to combine the human factors and analytical approach to implement this into your POCT department.

Speaker Bio

Johanna Thayer and Kes Carson are recent graduates of the medical laboratory science program at the University of Alberta. They performed a study in conjunction with Edmonton's Stollery Pediatric Diabetes Clinic at the University of Alberta Hospital. Kes' previous experience working as a MOHS technician led her to focus her Phase 3 research on a quality improvement project centered on a Human Factors assessment of HbA1c POCT devices in the clinic. Johanna's Phase 3 project focused on an analytical assessment of the HbA1c POCT devices.

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Sunday, May 26, 1015-1130

F05: (FR) Reforming laboratory services in New Brunswick, Our challenges and future outlook

Speaker(s):

Yves Goudreau, MHSA

Category

Management, Leadership

Learning Outcomes

1. understand the issues confronted with a New Brunswick context
2. learn tools and methodologies used to guide our health authorities and province in facing our current staff shortages
3. comment on our approach in dealing with our issues as best practices will be presented
4. have an open discussion on a national stage of issues confronted by all jurisdictions

Session Description

The session will focus on the current issues in laboratory services in New Brunswick particularly as it related to the Vitalite Health Network, which is a francophone authority. I will discuss our challenges, our method for evaluating our system and the steps that we will be undertaking to reform our system. Our reform, in my mind, is a method that should be considered by other jurisdictions and this presentation will allow for discussion in the end.

Speaker Bio

Yves has been in health care management at various managerial levels and has managed a wide-range of departments/services. He has a Master's degree in Health Administration and is currently the director for laboratory services with the Vitalite Health Network. Yves is an avid adventurer who holds a private pilot's license and loves to travel internationally. On his 50th birthday, he reached the base of Mount Everest, which was a life-long dream. In 2019, he hopes to reach Mount Kilimanjaro.

LABCON2019 – Session Details

Sunday, May 26, 1145-1300

G01: From bench to bedside in organ transplantation: How Canadian labs have made all the difference

Speaker(s):

Christina Parsons, BSc MLS, MLT

Category

Immunology, Organ Transplantation

Learning Outcomes

1. Explain services provided by Canadian Blood Services related to organ transplantation
2. List areas where laboratory services intersect with organ transplantation
3. Understand the impact of HLA laboratory standardization on national services

Session Description

This session will provide an overview of the policy development and national standardization required to provide national organ transplantation services related to the Canadian Transplant Registry operated by Canadian Blood Services. These services include a national HLA Advisory Committee that oversees proficiency and methodology as well as two programs (Highly Sensitized Patient and Kidney Paired Donation) that provide transplant opportunities for disadvantaged groups of patients requiring a kidney transplant. The impact of laboratory and science advancements and their impact on the delivery of patient care will be highlighted.

Speaker Bio

Christina Parsons has worked in the area of organ and tissue donation and transplantation for over 20 years. She has her Bachelor of Science in Medical Laboratory Science from the University of Alberta. She is fortunate to use her laboratory background and front-line experience to support Canadian Blood Services in supporting the donation and transplantation community in Canada.

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G02: Sepsis: Laboratory diagnostic testing used in diagnosis

Speaker(s):

Joseph Bottos, MLT

Category

Chemistry, Hematology

Learning Outcomes

1. Understand the pathophysiology of sepsis
2. Gain and understanding of the economic impact of sepsis care
3. Identify the diagnostic tests used in sepsis diagnosis and management
4. Detailed review of the following biomarkers

Session Description

Sepsis is a complex syndrome with severe outcomes for the patient and is very often difficult to diagnose. Diagnosis and treatment carries a high-economic burden to health care providers. Early diagnosis is key to successfully managing patients. This lecture will discuss in detail a cross-discipline approach to manage and diagnose sepsis patients earlier. The following biomarkers will be studied in more detail: CRP, lactate, procalcitonin, Leukocyte morphometric analysis and immune signaling markers.

Speaker Bio

For over 35 years, Joe Bottos has been involved in the field of medical laboratory technology and clinical biochemistry. He is a graduate of biochemistry (University of Guelph) and the medical laboratory technology program (Mohawk College, Hamilton). His employment history includes autopsy assistant, medical technologist in large teaching centers and technical positions with veterinary biologics manufacturing. He has also freelanced as a scientific/medical illustrator with drawings published in "Grants Atlas of Human Anatomy". He is currently employed with Beckman Coulter Canada, and has been for over 25 years. Joe is the national product manager and heads up scientific affairs for the chemistry and immunochemistry product lines.

LABCON2019 – Session Details

Sunday, May 26, 1145-1300

G03: My mental health journey

Speaker(s):

Lorenne Friesen, MLT

Category

General Interest

Learning Outcomes

1. Gain a fresh perspective on mental health - It is okay to realize you are not okay and need help
2. Learn to have empathy for other individuals - We all have different experiences throughout life
3. Build skills to recognize mental health is a daily challenge
4. Find techniques you can use in your daily life to combat stress and anxiety

Session Description

Sharing her own mental health journey, she hopes that others can gain a fresh perspective on mental health by learning to have empathy for others, building skills to recognize mental health is a daily challenge and finding techniques you can use in your daily life to combat stress and anxiety.

Speaker Bio

Lorenne Friesen, MLT. I work as a Senior Technologist in Hematology and Transfusion Medicine in a rural lab in Manitoba. I have been a member with CSMLS for 10 years. I graduated from RRC from Medical Laboratory Science in 2010. I enjoy advocating for our profession and tell as many people as I can to join us; our profession is in such high demand. I have previous experience explaining to the public about MLTs speaking to high school students, participating in job-shadowing experiences, as well as participating in children's events setting up a booth to explain who we are and what we do. Our job is such an important role in the health care system

LABCON2019 – Session Details

Sunday, May 26, 1145-1300

G04: Biosafety Level 3 Laboratory: Operational aspects and requirements

Speaker(s):

Janet Reid, BMLS, ART

Erin Hache, MLT

Category

Microbiology

Learning Outcomes

1. Know the history of the TB laboratory service in New Brunswick
2. Understand the requirements of operating a Biosafety Level 3 (BSL3) Laboratory
3. Be familiar with specialized protocols and personal protective equipment
4. Know which services are provided by the BSL3 laboratory in Saint John

Session Description

The biosafety level 3 laboratory is a heavily regulated environment with complicated control features and a workflow unique to the environment. The responsibilities are more stringent under the Public Health Agency of Canada's Human Pathogens and Toxins Regulations, with license renewal required every three years. The safety that this environment provides allows manipulations of biohazardous material not provided by the usual BSL2 microbiology laboratory. This presentation will give attendees a better understanding of this type of laboratory and provide a peak within the environment and the processes that take place there. The work performed by the Saint John New Brunswick BSL3 laboratory will also be covered.

Speaker Bio

Janet Reid has been the microbiology laboratory manager since October 2007. She has been a medical laboratory technologist since 1990 and has spent her entire career in microbiology. As a technologist, she was trained in the provincial service areas for level 3/TB and enteric reference services. She completed her Bachelor of Medical Laboratory Science from the University of New Brunswick (UNB), post-diploma in 2007 and her ART in microbiology 2014.

Erin Hache has been a medical laboratory technologist for 16 years, 11 of those spent in microbiology, where she is trained to work in the level 3 laboratory/TB. She completed her Bachelor of Medical Laboratory Science in 2003 from UNB. Erin has a passion for sharing her knowledge and has done so through teaching medical laboratory students and being involved in "Bring Your Kids to Work" days in the workplace.

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Sunday, May 26, 1145-1300

G05: Travailler en Sierra Leone pendant la crise d'Ébola

Conférencier :

Sgt. Jean-Sebastien Pellan, MLT/TLM

Catégorie

Transfusion

Résultats d'apprentissages

1. Expliquer les différentes procédures de sécurité impliquées avec Ebola
2. Décrivez les symptômes d'Ebola
3. L'implication du Canada à Freetown en Sierra Leone
4. Les origines du virus
5. Situation actuelle en Afrique de l'Ouest

Description de la session

Rejoignez-moi dans cette aventure pour discuter de la vie d'un technologiste de laboratoire médical travaillant à Freetown, en Sierra Leone, pendant la crise d'Ébola de 2015. En collaboration avec des organisations non gouvernementales internationales, l'armée britannique, le NHS et les FAC, explorons nos rôles, notre impact et nos défis au laboratoire.

Biographie du conférencier

Jean-Sébastien Pellan a terminé le programme de laboratoire médical du Collège Shawinigan à Québec (2008), puis a travaillé en biochimie et en hématologie à l'Hôpital de Montréal pour enfants. À la recherche de sensations fortes et d'aventures, il a ensuite rejoint les FAC en 2011 et a travaillé dans cinq provinces, dans des missions outre-mer en Sierra Leone, au Liban et même sur un navire de la marine américaine, en tant que technologiste de laboratoire médical. Passionné de qualité, il a reçu de la SCSLM un certificat de formation professionnelle continue en gestion de la qualité des laboratoires médicaux et a suivi le cours menant au certificat en gestion de la qualité des laboratoires de l'UBC. Actuellement inscrit à temps partiel à l'université pour obtenir un certificat en gestion des soins de santé, il souhaite avoir un impact plus important dans le monde du laboratoire médical.

LABCON2019 – Session Details

Sunday, May 26, 1415-1530

P04: TBA

Speaker(s):
TBA,

Category

Learning Outcomes

Session Description

Speaker Bio