

canadian

# JOURNAL

of medical laboratory science

Fostering  
Mental  
Wellness in  
Education

THE IMPORTANCE OF A  
BIOSECURITY PROGRAM  
IN THE LAB

Innovations  
in Laboratory  
Medicine

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IN FOCUS

4

Message from the  
Chief Executive Officer

4

Message from the President

5

### The Importance of a Biosecurity Program in the Lab

by Eoin O'Grady

6

### Mental Health Study Assessment: Burnout

by Brandon Djukic and Rosina Mete

8

### Championing The Profession

by Cathy Bouwers

10

### MLAs: Understanding the Workforce and the Importance of Retention

by Christine Goguen



13

### Fostering Mental Wellness in Education

by Lisa Purdy and Roberta Martindale

15

### What is Non-Conformance Management?

by Edwin Brindle

FEATURE

20

### Innovations in Laboratory Medicine

by Louise Gagnon

COMMUNITY

27

### Newly Certified Members in 2021

32

### Member Spotlight: Meagan Graff

34

### 2021 Premier's Award Recognizes a Lab Leader

SOCIETY NEWS

35

Lab Week 2022:  
The Lab Continues to Shine

36

National Volunteer Week 2022  
April 24-30



37

Invitation to the CSMLS  
Annual General Meeting

37

2021 Annual Report



38

National Voice

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## Continuing in Uncertainty

I've learned a lot about our medical laboratory community in the past two years. By stories we've heard, social media, emails, phone calls and messages, I've learned that through it all, you were there for patients. Though the unprecedented demands, the burnout and stress, you remained dedicated to your work. By doing so, you have gained more respect and raised more awareness for the integrity and vital role we have in health care. Thank you for continuing to represent the profession and your community with pride.



Christine Nielsen  
CHIEF EXECUTIVE  
OFFICER

While you do your job, we promise to do ours. The role of CSMLS continues to be one of support and advocacy, ensuring you have the resources you need to continue doing great work, even after this pandemic.

We've continued our work on tackling the complexity of health human resource shortages. While there is no quick fix, our approach is a long-term plan that addresses the issue from several key points.

Over the past two years, I've had meaningful conversations with multiple provincial government bodies regarding the shortage of MLTs and the regulation of MLAs. Regulating MLAs would help ease the pressure from MLTs in labs, ensuring a standardized entry-level practitioner. It would be a positive move that puts patients first – using a validated national competency profile, national accreditation (EQual Canada) of education programs, with the CSMLS high-stakes national certification exam providing an extra layer of assurance.

We also know that part of the reason we have crushing workloads, outside of COVID-19 testing, is excessive, nonvalue added laboratory testing. We continue to work closely with Choosing Wisely Canada for the large scale promotion and adoption of our Lab Wisely set of recommendations. When Lab Wisely recommendations are taken into practice, it will reduce the burden on our highly qualified professionals, without compromising patient outcomes.

We've been building the body of knowledge around mental wellness of medical lab professionals since 2016. We can see from the data that the pandemic is clearly taking its toll; you are paying a heavy price. To learn more, including barriers to wellness, we are launching a pilot program that will focus on a peer to peer support group. We will test the interest and viability in offering a safe, facilitated space with a mental health professional to consider issues like identity, stress, and burnout. As members continue to use our mental health resources, this would add to your support tools.

Resiliency, feelings of duty, and hard work are getting us through these challenging years, but it will be a hollow victory if we don't take care of ourselves. Mental health support is not a luxury, but a vital part of our own health care. After all, you can't pour from an empty cup. Learn what you need to fill your cup, to recharge your batteries, or whatever you need to keep well, in order to continue doing the work you love to do. 🍷

## Here for You

I am honoured to be writing my first message as CSMLS President. My time as Director, Quebec, was a very rewarding experience, but being elected to serve as your President is humbling. Thank you to the CSMLS Board who elected me to Vice President two years ago. To all CSMLS



Lucie Alain  
2022 CSMLS  
PRESIDENT

members, I look forward to serving you the best that I can, and I believe what we all need most right now is support.

I joined the military in 1987 and have worked very hard to become Chief Warrant Officer (CWO), which is the most senior non-commissioned member rank. I have served my country for 35 years. In that time, I was deployed twice to Afghanistan and three times to the former Yugoslavia. I can honestly say that I am no stranger to change and challenges. That's why I empathize with you all, each and every day.

For the past two years, my thoughts have been with you all, the medical laboratory professionals who have been working through a seemingly endless quantity of tests. You can be assured that I continue to carry the same empathy as CSMLS President. In every action I take as President, I will be thinking of your mental health, the struggles of working understaffed, the challenge of constantly adapting to new protocols and knowledge, and the never-ending problem solving that seems to define our profession.

Having been on the Board for seven years, I've seen a lot of change in the profession, but I've also seen change in the Society. I am proud to have been part of the board team who validated the Strategic Plan in 2021. I think it is the best plan to support you, now and in the future.

As President, I am even more proud to see that plan put to work. It is a plan that focuses on creating a strong community that helps you grow, but also focuses on local advocacy to create change for the profession and support for your needs. I will focus on that support as your President. You are there for Canadians, so I will be here for you. 🍷

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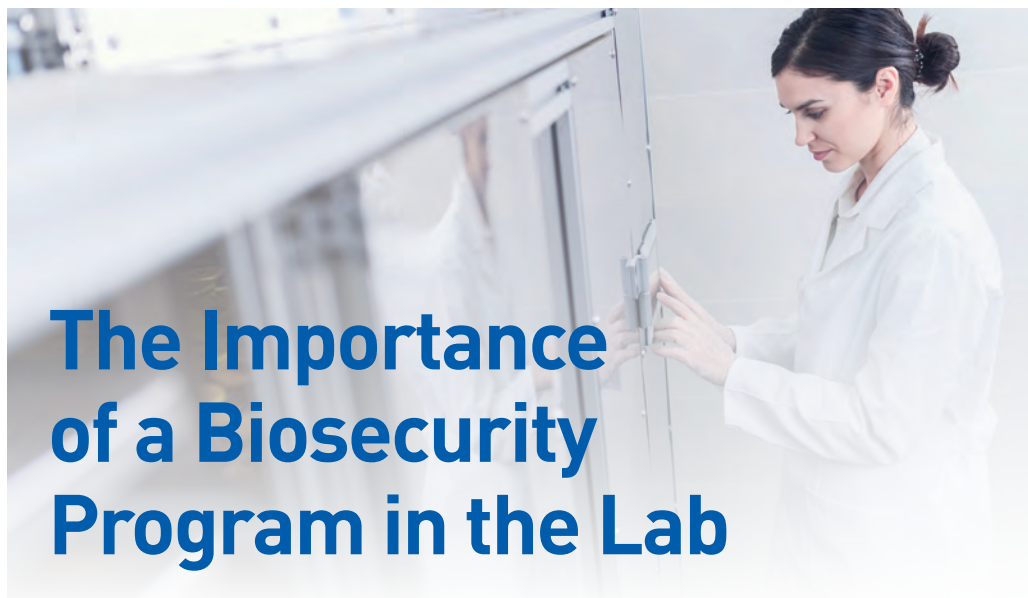
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## IN FOCUS



## The Importance of a Biosecurity Program in the Lab

Some newsworthy biosecurity incidents have occurred in Canada in the last several years, including at federal<sup>1</sup> and hospital<sup>2</sup> facilities. Fortunately, most of us will not be involved in these types of incidents; but having a biosecurity program<sup>3,4</sup> in place will help prevent such an event and mitigate the effects should one occur. Establishing and implementing a biosecurity program is an important management responsibility. Preventing unauthorized access, theft, misuse and diversion are key objectives of a biosecurity program.<sup>3,4</sup> You can be involved in creating and maintaining a biosecurity program at your workplace to ensure that the program is effective for you and your colleagues in the lab.

To set the stage, it's important to determine if you have a formal obligation to implement a biosecurity program. The Public Health Agency of Canada requires a formal program for organizations holding a licence under the *Human Pathogens and Toxins Act* and *Human Pathogens and Toxins Regulations*, and a Canadian Biosafety Guideline<sup>5</sup> is publicly available. This requirement applies to all persons conducting controlled activities with human pathogens and toxins. Additionally, your organization may require you to have a plan as part of the Occupational Health and Safety Management System (OHSMS), or as an element of the human resource function.

Once you've determined there is a need for a program, a risk assessment must be completed as a first step. The risk

assessment requires careful consideration of the diversity of:

- biological hazards,
- inventory complexity, and
- physical infrastructure.

You can contribute to this process and be part of the team to identify and prioritize assets including pathogens, equipment and both physical and human resources. Carefully document whether your organization has pathogens at higher risk groups (e.g., Risk Group 3/4) or specialized facilities (e.g., tuberculosis, prion or Containment Level 3/4 facilities). Some of this scoping work may tie nicely into other lab security programs, such as possession of controlled products or substances.

The next step is to define threats and vulnerabilities in staff and physical security; you can help in this process and assist a multi-person team to make informed judgements about these threats. "Insider" threats are those that involve current employees who may be dissatisfied or subject to manipulation by others, while "outsider" threats can include former employees, protest groups and criminals. Each of these groups may have a special interest in the assets within your lab. They may want to cause harm to others or use equipment for illegal purposes, such as illegal drugs. Most organizations have a human resources function that provides an adequate level of reliability during hiring/termination (e.g., acquiring social insurance number, reference checks and credential

verification). Increased levels of scrutiny may be warranted based on the risk assessment conducted above.

In terms of physical security, many labs are part of a larger building where there is an adequate level of physical security. You can verify this by starting inside the lab and working outwards to identify the different layers of security, such as:

- locked storage cabinets and secured equipment inside the lab
- locked laboratory doors or access control points at building floors/entrances
- requirement to escort visitors, restrict after-hours access
- CCTV and security staff

Once the risk assessment is completed, you must now match the risk and risk mitigation efforts for each asset and threat identified. This may be done using an existing risk matrix in your organization. Develop and implement a risk mitigation strategy for each adverse event so that the likelihood of a serious outcome is reduced. It's important to recognize that you cannot control everything so a balance must be achieved in reducing risk to an acceptable level. For example, if unauthorized access occurs and the consequences could result in self-harm or harm to others, the risk level needs to be assessed as low, medium or high, and effective controls must be implemented to prevent such occurrences.

Like any program, the biosecurity program is only as effective as its weakest link. Create a thorough understanding of the program through orientation, refresher training and by raising awareness at reasonable intervals. This will help ensure the biosafety program meets its purpose and prevents incidents in your lab. ■



EOIN O'GRADY  
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## MENTAL HEALTH STUDY ASSESSMENT: BURNOUT



The Canadian Society for Medical Laboratory Science (CSMLS) published a report that examines mental health issues, including stress and burnout, as well as mental illness of medical laboratory assistants (MLAs), technologists (MLTs) and other related professionals.<sup>1</sup> We've used the information to help our members in a number of ways, including engaging registered psychotherapists to assess and devise methods to help resolve related mental health issues, one of which is burnout. Below, registered psychotherapist Rosina Mete outlines burnout and the signs and steps leading to this mental health issue in the workplace.

### BURNOUT

One of the newest additions to the mental health toolkit examines the five-stage model of burnout<sup>2</sup> as designed by Winona University, and which is supported by peer researchers.<sup>3</sup>

Burnout is characterized by three types of symptoms:

- exhaustion
- alienation from work-related activities
- reduced performance

The path to burnout often follows a five-stage progression, marked by the optimistic beginnings of a new job or role and declining mental health over time. We pose the question: Which stage resonates with you?



### Stage 1 - Honeymoon

The honeymoon stage is marked by high job satisfaction, commitment, energy, and creativity. The key issue is what patterns of coping strategies you begin to develop when facing the inevitable stresses of the job. In theory, if the patterns of coping are positive and adaptive, then you will remain in the honeymoon stage indefinitely. But few persons do.

### Stage 2 - Balancing Act

As opposed to the unbridled optimism and positiveness of Stage 1, you now are clearly aware that some days are better than others, regarding how well you are handling the stress on the job. An awareness of a noticeable increase in the following is indicative of Stage 2:

- job dissatisfaction
- work inefficiency, including avoiding making necessary decisions, “losing” stuff at work (even on your desk!), etc.
- fatigue (a general fatigue, often accompanied by deep muscle fatigue)
- sleep disturbances (often that you are so “busy” in your head that you can’t get to sleep)
- escapist activities of choice (including eating, drinking, smoking, zoning out in front of the TV, etc.)

### Stage 3 - Chronic Symptoms

The chronic symptoms stage is marked by an intensification of some of the same indicators cited in Stage 2, and may include:

- chronic exhaustion
- physical illness (remember that stress is a risk factor in many diseases)
- anger, depression

### Stage 4 - Crisis

During the crisis stage, the symptoms become critical and may include the following:

- physical symptoms intensify and/or increase in number
- obsessing about work frustrations
- pessimism and self-doubt dominate thinking
- you develop an “escapist mentality” (habits that separate yourself from your life and delay facing issues, such as increased alcohol and drug use, increased phone scrolling, increased shopping habits, etc.)

### Stage 5 - Enmeshment

During the enmeshment stage, the symptoms of burnout are so embedded in a person’s life that they are more likely to be labeled as having some significant physical or emotional problem rather than being referred to as a burnout case.

## LEARN MORE

Over half of Canadians report their mental health has worsened since the onset of the pandemic with an increase in anxiety symptoms. You are not alone! CSMLS has curated relevant resources for you.<sup>5</sup>


The CSMLS Mental Health Toolkit has medical laboratory-specific resources for managers, individuals, students and educators. Go to **mentalhealth.csmls.org**.

Find a collection of mental health resources from trusted sources on our Useful Links webpage. Find them at **csmls.org > Research > Grants and Resources > Useful Links**.

## CONTINUING THE DISCUSSION

CSMLS, along with our allied professions, Canadian Network of Agencies of Regulation (CNAR) and the Canadian Association of Allied Health Programs (CAAHP), have continued the dialogue regarding mental health at several virtual symposia, including CSMLS Insights Speaker Series virtual events. We have also issued a joint statement highlighting our synergy and understanding to this cause.<sup>4</sup>

Our next steps will include collecting additional, and more focused, information from within our organizations. We aim to further our understanding and continue to help our members resolve mental health issues, including stress and burnout.

CSMLS will pilot a brief program in 2022 to assess the interest and viability in offering a safe, facilitated space with a mental health professional to consider issues like identity, stress, burnout and resources available. Subscribe to eNEWS, our biweekly electronic newsletter, to receive updates on this pilot as they become available. 



BRANDON DJUKIC,  
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ROSINA METE,  
MSc, PhD, RP

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# CHAMPIONING THE PROFESSION

The Indigo Lab Coat, the campaign that created a new symbol of the medical laboratory profession, continued its mission to raise awareness of your work and the profession as a whole.

This year, we partnered with a new, honorary, member of the CSMLS community for another national campaign featuring the Indigo Lab Coat: Dr. Hayley Wickenheiser. While Dr. Wickenheiser is known for her leadership on the ice as a five-time Olympian with Canada's Olympic hockey team and her role in the Toronto Maple Leafs organization, outside of her hockey career, she recently started her residency as a medical doctor.

Dr. Wickenheiser's experience in health care gave her an inside perspective on your role in patient care, so we had her share personal reflections on the medical laboratory profession. This personal reflection became the campaign twist: Instead of the 1.2 million medical tests you perform everyday being microprinted on the lab coat, it was covered with Dr. Wickenheiser's praise for you, medical laboratory professionals across Canada. This new coat, dubbed the Indigo Lab Coat of Honour, provided a pandemic perspective on the campaign, highlighting medical laboratory professionals as the "unsung heroes" of the last few years.

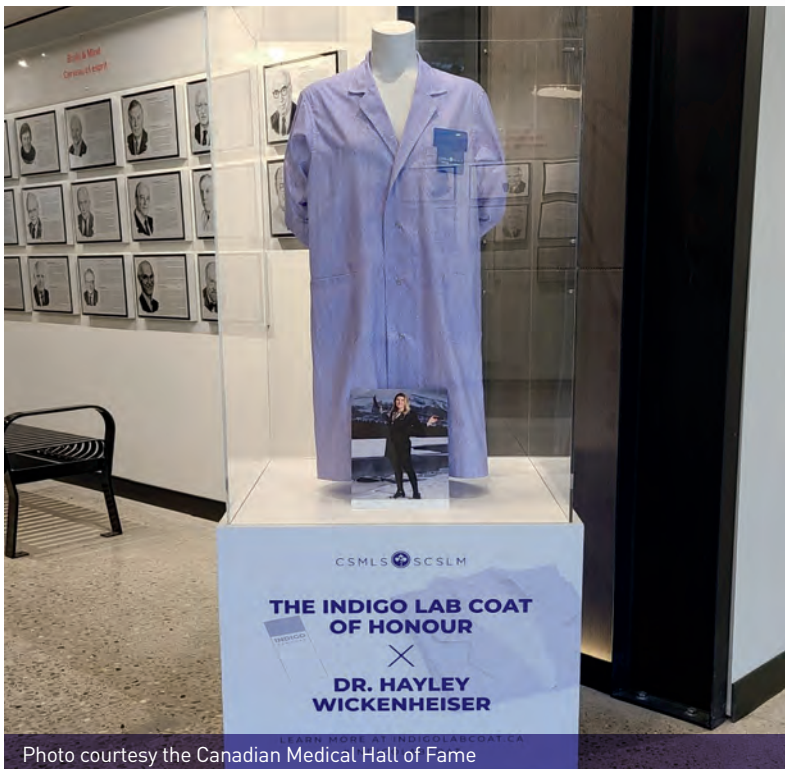
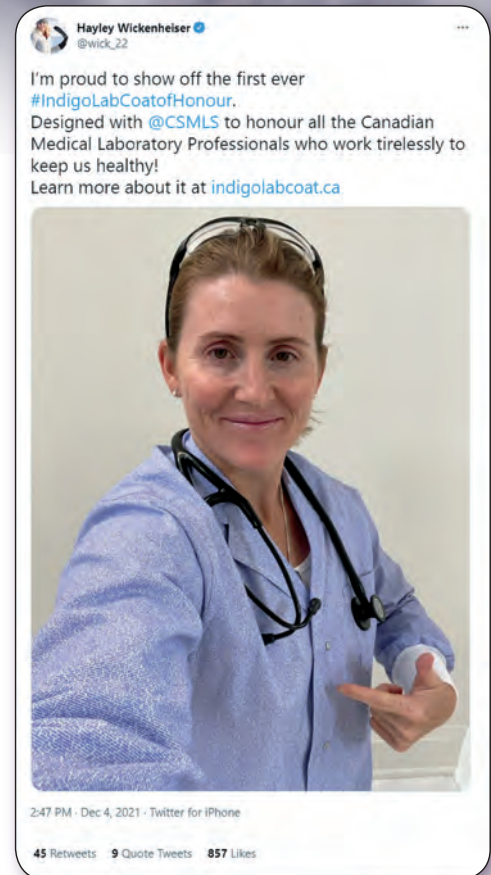


Photo courtesy the Canadian Medical Hall of Fame







PROFESSIONALS ARE KIND OF LIKE THE  
THAT STANDS ON HIS OR HER HEAD

Dr. Wickenheiser's words inspired a new web video that blended the lab coat and her hockey heritage by showing the coat lifted to the rafters, symbolizing the highest honour in sports. The video was shared across CSMLS social media channels, and ran as a paid promotion on YouTube. All together, the social media campaign was viewed more than 400,000 times.

The hockey theme was carried over to the bus shelter ads, with ten ads strategically placed in high-visibility areas and in regions surrounding hospitals in five major cities. The eye-catching indigo lab coat image used a quote from Dr. Wickenheiser to educate the public on the importance of medical laboratory professionals. The ads directed the public to visit our website to learn more about the profession. These advertisements are estimated to have been viewed 6.9 million times.

Perhaps the biggest change to this year's campaign was a brand-new element to raise public awareness: a live display of the Indigo Lab Coat of Honour. The display featured the coat hung within a clear case, along with information about the story of the microprint

design, the work done in the lab and how Dr. Wickenheiser honoured the profession. For just over two weeks, the Indigo Lab Coat was first on display at the Canadian Medical Hall of Fame in London, Ontario, and then placed in the Vaughan Mills Shopping Centre in Vaughan, Ontario, at the height of the holiday shopping season.

The CSMLS would like to thank Dr. Wickenheiser for advocating for the medical laboratory profession. The pride that she shared generated greater awareness about medical laboratory professionals and your impact within the Canadian health care system, especially during the pandemic.

Visit [IndigoLabCoat.ca](http://IndigoLabCoat.ca) to see the new video honouring medical laboratory professionals and your incredible work. 📺



CATHY BOUWERS  
Communications Manager,  
CSMLS







# MLAs:

## Understanding the Workforce and the Importance of Retention

**M**y love of the laboratory stems from fond childhood memories with my mother, a dedicated food scientist with Agriculture and AgriFood Canada for 35 years. She brought me to work on occasion, in the field and in the laboratory, and it was love at first sight!

Flash forward to 2008, when I got a job as an MLA. My passion grew like the Grinch's heart! I worked at this position for eight wonderful years with an all-star team of MLAs, MLTs, students, doctors and administrative staff. Those years gave me great insight on both professional and personal growth. I can look back at the big picture and appreciate how things worked, and sometimes, did not. Now I can pass on my insights to you, specifically how to make the best use of the valuable MLAs on your team and the importance of staff retention.

### **Make the Most of MLAs' Skills**

The pandemic has stretched laboratory staff to a breaking point. This has greatly affected the workforce. We are seeing an augmentation of stress, leaves, burnout, depression and even some valuable members permanently leaving the profession.

MLAs can't single-handedly solve these issues, but they can help. The vast majority of MLAs work in phlebotomy, specimen reception and specimen accessioning, but we can do so much more. I believe we can find tasks in all areas of the laboratory that MLAs can take on to help lighten the load on MLTs. There are pre-analytical tasks, basic maintenances, cleaning and sorting to be done in most departments. Look at each part of the process to see where an MLA could be helpful.

Scheduling can be tricky, but strategically thinking of when and how MLAs are working can help. Sometimes, scattering the MLA shifts, to have them start at different times, can immensely help workflow. By pinpointing times where there is an influx of work for MLAs, you can choose to make changes in shift start times to accommodate these.

MLAs work under a range of MLT supervision. Sometimes, this supervision is minimal, but still exists. Look at ways MLAs can be



productive, even under minimal supervision, so that their work can positively influence the workflow. If MLAs can get most of the pre-analytical work done, MLTs can then concentrate on work that only they have the knowledge to do. As a gentle reminder: We must respect the scope of practice.

### Why Retention is Important

The more you see, the more you know - that is experience. Working in a hospital laboratory, I can tell you that you rarely see anything just once. After all those years, I could almost predict problems. I also became an expert in reading manual requisition forms and knew what to do in difficult situations. This was possible because of my time spent learning.

Experience also meant that I knew and understood every step of the process in each specimen that we received, which is key for trouble shooting. I knew how things worked at the doctors' offices clinics, the ER and the hospital floors. Some specimens are easy to re-collect, others impossible or next-to impossible. Those were the ones where I had to make sure we did everything we could to solve any issues. These skills and knowledge only come with experience over time.

### Better Peer Training

MLAs usually learn the ropes from other MLAs. Peer-to-peer training is what can set the tone for how things will go in the future. Not everyone excels in training. It is crucial to identify the MLA that has the experience, but also the skill set to train new hires. The best peer-to-peer training is often offered by an MLA who is comfortable in the position and who has the desire to train someone that will be great to work with. These people make the training fun and informative. They usually have many anecdotes about the job and the staff they work with.

For any new employee bombarded with information, details and pressure to perform, having someone nearby who has been there, is encouraging, and understands the struggles you're facing – and

## LEARN MORE

Visit [csmls.org/learning](https://csmls.org/learning) to watch Goguen's full webinar, available on demand in the Learning Centre, and for more insights to MLAs and the value of employee retention.

has been working for five to ten years – gives you hope that you can get there too.

### Strengthening the Team

Who likes repeating themselves? When you experience too much turnaround in your staff, everyone feels like they are constantly repeating the same thing, but to different people

I always tried to look at my lab department as a sports team. We all worked together for a common goal and did it in a very organized way. Doing so, we never overlooked the fact that everyone has strengths and weaknesses and everyone has a life outside of work. As a team, you recognize that, and you embrace it. Knowing that I could ask for help with work if I needed to leave early or swap a shift was comforting. By being attentive to everybody's different needs, and by listening, I could excel at my job. You usually do not get this type of relationship when your MLA position turns around every month.

The longer you work with someone, the better you get to know them and how they work. After eight years, I knew who wanted help setting up for specific specimens and who instinctively needed to get things ready on their own. Both were excellent MLTs and by getting to know them, I knew what to do for us to get the most work done. Those years also gave me a chance to get to know my coworkers personally.

### Time to Grow

If you retain your MLAs long enough, they will learn how to apply many soft, or learned, skills, such as organization or time management, in the laboratory. For example, my workplace efficiency improved over time. Time management skills helped me be more productive and work more independently. Once this was mastered, my confidence just grew. I was confident in my work and my position as a valuable team member.

Which leads to my final note, really a message to my fellow MLAs. Retention affects confidence in such a big way. The better you get at your position, the more confident you become, and that takes time. I tried to remind new hires that you must learn how to do something well first, then when you feel confident doing it, that same thing will become a skill. Keep mastering as many skills as you can, keep challenging yourself and you will love your job as it will be fulfilling interesting and the years will fly by. ■



CHRISTINE GOGUEN, MLA





# FOSTERING MENTAL WELLNESS IN EDUCATION

As COVID continued to pick up speed in the spring of 2020, the Bachelor of Science in Medical Laboratory Science (BSc in MLS) program at the University of Alberta was preparing for accreditation and the implementation of a new curriculum map. These were some of the larger scale stressors for the program, its staff and students. With changes due to COVID occurring rapidly, the program had to be ready to pivot and respond quickly. The disruptions affected many factors in the program, and the program worked to keep the atmosphere, whether in online classes or physically distanced laboratory sessions, as positive and inclusive as possible.

When I sat down with my program director to reflect on positive mental health initiatives through this period of change, we realized how much had happened in the last 20-plus months. There have been many hurdles; and yet there were key markers of resiliency and quite simply, positive outcomes for both students' and instructors' mental wellness. Looking back, we can see the benefit of new initiatives that we can move forward on knowing that we have come far and will continue to reach forward.



We did and continue to see issues with student engagement in the online environment, so we introduced activities to improve engagement:

- Show and tell sessions (i.e., favourite coffee cup or food) helped set a fun and positive tone. The most popular was the show and tell of participants' pets, which became a part of class sessions on a more regular basis.
- Another way we approached engaging with the students was to offer online game platforms such as Kahoot. The students were able to test their knowledge and participate in the class.
- We also encouraged students to turn on their cameras and ask or reply to questions via microphone or chat.
- At the end of some lectures, we would ask the students, if they were comfortable and had a camera, to turn on their cameras and give a wave to everyone before they left the class. A good number of the students chose to turn on their cameras.

In the clinical year, practicums were disrupted due to COVID, and several groups had to isolate, including one group who was delayed ten weeks. Despite this, the students and instructors kept lines of communication open, and the students were all able to complete the missed rotation time and their clinical year. To coordinate this required nimbleness, adaptability and resilience. A few key initiatives were a large part of this success:

- The University of Alberta provided information resources for both students and staff during the pandemic with opportunities to attend online sessions on topics such as resiliency, self-care and management of time and energy.
- Communiques were provided weekly to the university community and more often as more changes occurred. Staff were also able to attend sessions focused on teaching and learning, with webinets offered by the Centre for Teaching and Learning (CTL) covering such topics as Zoom basics, enhancing a Zoom lecture and student engagement to name a few.
- MLS students continued to have access to their MLS mentors, who offered virtual coffee meetings.

- Students were encouraged to attend townhalls, which offered them the opportunity to come together with their instructors to ask questions, gather as an online group, share stories, and to hopefully decompress, even a little.

We also started initiatives to help the students and staff with their overall wellness, where group meetings and activities were valuable opportunities to socialize, problem-solve and just have some fun.

- MLS staff came together weekly during the first part of the pandemic to discuss everything from issues and possible solutions, to what was new and who was taking on a new COVID project like baking or knitting. This provided the opportunity to engage, discuss, problem-solve and even decompress.
- The Medical Laboratory Students' Association (MLSA) offered wellness sessions such as Zoom parties and online movie nights, along with COVID appropriate treat bags.
- Our MLS director offered self-care sessions for the students. Linked to self-care is self compassion. The foundations of self compassion are self kindness and care, accepting that we share a common humanity (and being imperfect is part of the package) and using mindfulness to work through tough and trying times.

Being kind to ourselves might be one of the hardest things to do on a continuous basis, and the stress of the pandemic has tested self compassion for many. Mindfulness suggests that the past is a memory and the focus should be on the present. MLS will continue to provide support and caring for students and staff as the pandemic lingers on. **U**



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# What is Non-Conformance Management?

**T**he laboratory's quality management system (QMS) is the bedrock in meeting quality objectives. The QMS governs all laboratory activities and addresses all processes to ensure accurate and timely service delivery to patients. One fundamental element of a QMS is a process to manage non-conformances. The goal is to cultivate an environment in which occurrences can be detected, reported, and the outcomes used to improve the quality of laboratory services.

A non-conformance, in its simplest terms, is a failure to meet requirements. It occurs when there is a detour (unintentional or deliberate) from established practice, policies, and procedures,

resulting in a product or service that does not meet defined expectations. In the laboratory, examples include:

- Unlabeled/mislabeled specimen
- Missing specimen
- Specimen preparation error
- Equipment out of specification
- Delay in turnaround times
- Incorrect delivery of critical report

A non-conformance can be minor (adherence to policy/process or procedures is inconsistent or the requirement is met in practice, but



required documentation is missing or incomplete) or major (has the potential to directly impact patient safety or an examination), but each can impact product quality or patient safety.

By managing non-conformances, we can learn about laboratory errors from the most critical to the mundane and improve quality from the ground up. In my experience, the best way to approach managing non-conformances is through the “five W’s” of effective non-conformance reporting.

### 1: Why Report?

It is a requirement by standards and accreditation bodies to have a system for detection and reporting of non-conformance. For example, IQMH Accreditation Standard Section IIA.2 states “The quality management system shall encompass all management activities and processes relating to quality assurance: (h)

investigation of non-conformities.” It is also a proven method of continuous quality improvement (CQI) by which error waste and inefficiencies are reduced and quality and safety principles are implemented and sustained. So, a robust but efficient reporting process must be built into every laboratory system to guard against underreporting or errors.

### 2: Who Should Report?

Ideally, the person who detected the non-conformance should report the occurrence as close to the time of the event as possible. This individual has the closest perspective to the details that led up to the event, the event itself and any immediate actions needed to contain the issue. However, the review and investigation stage on non-conformance management must be open to various stakeholders to ensure a wide range of perspectives can be part of the resolution.



### 3: When to Report?

In non-conformance reporting, the clock is ticking. Critical and major non-conformances must be reported within 24 hours of detection. The longer it takes to report the error, the more potential there is to: allow subsequent errors to occur; lose essential information concerning the event; and have staff unavailable to recall the details of the event.

However, non-conformances may be identified during internal audits of the management system and laboratory activities, management review, document reviews, customer or supplier audits, or external assessments by regulatory or accreditation bodies.

### 4: What to Report?

Ultimately, the biggest challenge for laboratory staff is what is considered reportable. For minor non-conformances, a simple track and trend of such events is enough to raise a flag if recurrence is noted above a threshold. The process should use a standardized, systematic approach to help identify and assess potential risk or failure that exists in a process, and to identify which errors need be reported. Looking at each error with the lens of its potential impact on the product or service if the error went undetected is helpful in determining said risk.

Once a non-conformance is deemed reportable, the documentation must capture specific details such as date, time, area, involved staff and a brief summary of the non-conformance. Any non-conformance should be sufficiently documented to ensure there is traceability of all steps and actions taken and signatures of those involved in the capture, review and approval of the report.

### 5: Where Next? A Risk-Based Approach

Using a risk matrix to assign a risk rating is an effective tool, as it allows staff to adopt a proactive approach to non-conformance reporting and enables the identification of potential non-conformities. Additionally, this prepares staff to react objectively when faced with the question “to report or not report?” and empowers staff to implement corrective actions.

### After the 5 W's

There is a well known quote that the definition of insanity is to repeat the same mistakes and expect different results. A lack of effective non-conformance management in your quality system may feel the same. Reporting is essential, but without timely follow up, investigation and process change to ensure effective outcomes will be futile, if actions to correct the error at its core are not performed. Change outcomes must be linked with learning to avoid the same pitfalls in the future. Follow these key guidelines to ensure effective outcomes after the 5 W's.

If the non-conformance is major, perform a detailed investigation and root cause analysis. Involve a number of subject

matter experts, including the supervisor and the quality and medical director, to determine the source of the non-conformance and make recommendations to mitigate further opportunity for recurrence. The investigation may involve a physical walk through the steps in a process, to follow the “breadcrumb trail” and find the reason for the non-conformance.

Management should review major non-conformances, and ensure the medical/scientific director has had the opportunity to view reports at a monthly quality meeting and the annual report. Minor non-conformances should also be available for review if required.

When implementing preventative change, there will be documentation in the non-conformance report that speaks to the actions (short and long term) needed to guard against further incidences of the same or similar non-conformance. Remember to follow the change control process to ensure modifications to policies, processes and procedures are done in a controlled manner.

Typically, it is the role of the quality manager to assign a tracking number to the non-conformance and file in the QMS, as well as an individual for follow up with the department issuing the non-conformance. Their follow up will be a guide as to whether the fix is working. If there are still problems, then a new corrective action plan is required and the non-conformance must remain open for further investigation.

Finally, it is best to present individual and cumulative data on the type, origin, and severity of corrective actions taken at local quality assurance meetings, so that trend analysis can highlight any ongoing concerns. Reports and summaries should also be shared with appropriate staff to ensure knowledge and ensure full transparency.

In our busy and resource strained laboratories, quality and accreditation will always require non-conformance reporting systems. As laboratory teams, we have an obligation to ensure that errors are easily reported and not missed or under reported. It is vital that we all understand the rationale for safe and effective non-conformance handling. Teams should benefit from a review of the five key principles (why, who, when, what and where next) of non-conformance reporting.

Using a risk-based approach and continuous quality improvement goals, together with standardized methods, will ultimately help focus our attention on the advantages of maintaining a user-friendly non-conformance reporting and management system. ■



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# INNOVATIONS

## in Laboratory Medicine

**T**here is no argument that in the current era of medical laboratory consolidation and staff shortages, hospitals and various health care facilities are eager to implement innovations that can help stem the adverse impact of human resource shortages in laboratory medicine.<sup>1</sup> But medical laboratory professionals have found ways to solve specific issues that in turn increase efficiency and decrease some workloads. From finding a hidden supply of a precious resource through increased efficiency to applying modern technology to a large-scale issue and stemming unnecessary test orders at the source, laboratory professionals have been at the forefront of laboratory innovation that benefits health care providers and patients alike. Many unique initiatives have now been implemented to find savings, both in time and cost, in laboratory medicine. CJMLS highlights three specific instances where laboratory professionals create efficiency and continue to improve the laboratory landscape, one innovation at a time.





Dr. Calvin Cheng

## Saving Blood Product in Nova Scotia

Dr. Calvin Cheng, a staff hematopathologist at Queen Elizabeth II Health Sciences Centre (QEII), the centre's former Blood Transfusion Director and current Director of Pathology Informatics, and Professor in the Department of Pathology at Dalhousie University in Halifax, Nova Scotia, has developed an algorithm in conjunction with his colleague Dr. Jason Quinn, the Blood Transfusion Director at Queen Elizabeth II Health Sciences Centre. They were motivated to look at a strategy to minimize expired red blood cell units in the hospital's blood bank and improve the efficiency of the red cell inventory ordering process.

"We noticed that the ordering of red cell units for inventory was quite a manual process," said Dr. Cheng, noting the QEII transfuses about 14,000 to 15,000 red blood cell units annually. "It depended on what was happening that day. We needed a way of ordering so that we would not over order or under order. We need to order enough blood to have on site, so that we do not have shortages. You can't over order because you can't return the blood (that is not used)."

One of the summer students working with Dr. Cheng helped develop an algorithm using data over a six-year period (from 2009 to 2015) on all transfused inpatients. One of the vital inputs into the algorithm, with respect to predicting likelihood of transfusion, is the measure of hemoglobin values linked to their respective ABO blood groups.

"We integrated that information into an algorithm to help us order red cell inventory based on what we had in inventory and what would happen in the next 48 hours in terms of transfusion," said Dr. Cheng.

The automated algorithm calculates the number of red blood cell units to be ordered from Canadian Blood Services based on both retrospective daily use and prospectively based on hemoglobin values on all patients in the hospital system.

Once the algorithm was implemented, there was an overall reduction in monthly outdate rate, with rates decreasing from 19.1 units to 8.1 units (or 1.79% vs. 0.72%). There was also no increase in the number of stat orders to the hospital's blood supplier in the post-implementation period.

Before the use of the algorithm and automated ordering, Dr. Cheng said personnel would estimate the number of units of blood that needed to be ordered based on looking at printouts, what was happening clinically that day, looking in various fridges, and subtracting that from a manually established target on paper. Ordering was variable and operator dependent, whereas now it is a function that is very precise. "We have reduced this down to a printout that tells you that you need six units of this [blood group], two units of this, and three units of this," said Dr. Cheng. "It is all very mathematical."

Another advantage of the use of the algorithm is that it saves on resources to manage the inventory. "We do not really spend time managing the inventory," explained Dr. Quinn. "For a lot of labs, managing inventory is done manually. They are literally counting their inventory and looking at surgeries that are coming up and deciding to order a certain amount." Now that the algorithm is part of the lab's routine, time, and precious blood bags, are saved.





Morley Bridge over the Bow River, within the Stoney Nakoda Nation in Alberta.

## Bridging a Physical Gap for Patient Care in Alberta

It was at a medical conference in late 2019 when Wade Hawkins, principal investigator at the Southern Alberta Institute for Technology's Centre for Innovation and Research in Unmanned Systems, had an informal chat with infectious diseases physician Dr. John Conly, a professor in the Cumming School of Medicine at the University of Calgary in Calgary, Alberta, about the concept of using drones to deliver medical supplies to remote First Nations communities.

"We discussed several health care applications, such as vaccine delivery and the delivery of medical devices to remote communities," recalls Hawkins.

Once the COVID-19 pandemic hit, it fast tracked discussions into proof of concept. Hawkins and others decided to study the viability of sending COVID-19 test kits on a drone mission, noting



Wade Hawkins



this would avoid unnecessary travel and decrease the threat of COVID-19 infection for residents of remote communities in Alberta.

“Residents do not want to go to a lab to potentially infect other people if they have COVID or get infected if they do not have it,” said Hawkins.

A sample COVID-19 test kit was delivered via drone to Morley, a community within the Stoney Nakoda Nation in Alberta, returned to the lab, and then analyzed against a control sample, to determine if the test kit degraded during drone transport. Hawkins and collaborators observed that there was no degradation of the sample that travelled via the drone.

“That was a big deal,” he said. “The result told us that we could fly [COVID] test kits to the community,

fly them back, and that there was not any degradation throughout the mission.”

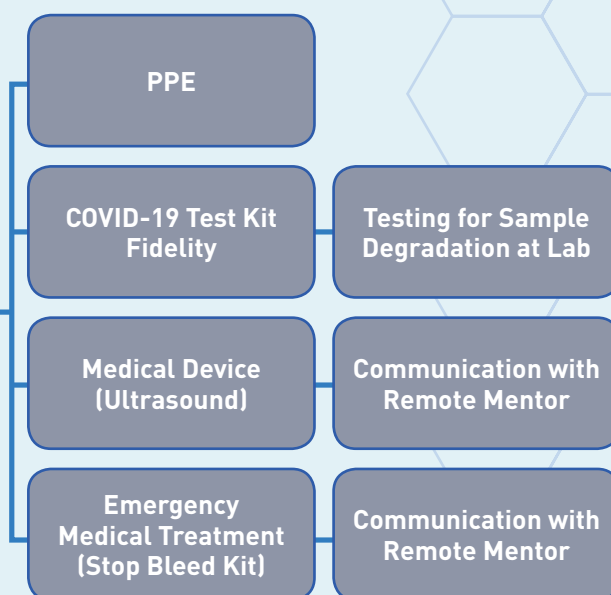
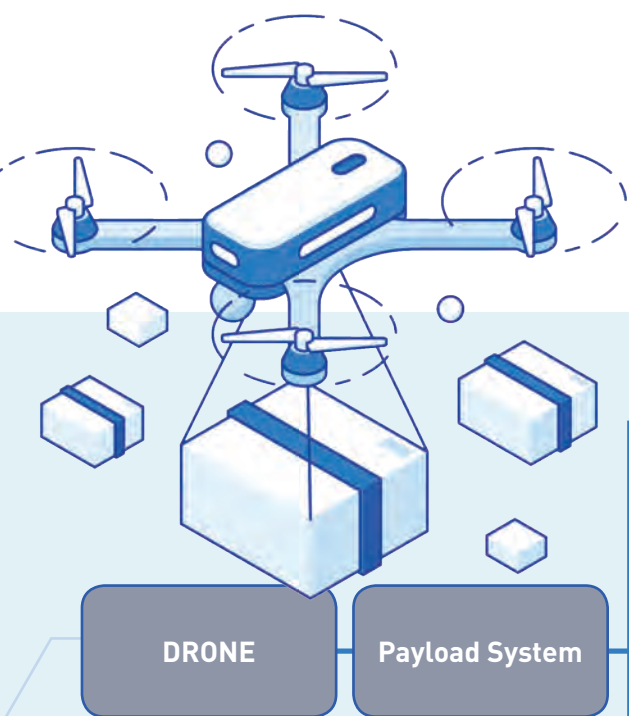
Moving forward, Hawkins and his collaborators are trying to determine the best use case for the drones. They have been testing medical delivery scenarios in terms of drone endurance, payload configurations, and delivery methods such as fixed-payload and winch-based payload drop delivery systems.

“We want to demonstrate that the delivery of medical supplies and devices can be completed through either payload system across all four seasons in Canada and in various environmental conditions,” said Hawkins.

In the future, blood work and organs could also be transported by drones, predicts Hawkins. “The goal is to develop standard operational procedures that allow drone operators to complete safe and successful delivery.”

Other items that can potentially be transported via the drones is insulin and other medication for members of remote Indigenous communities who are unable to travel in inclement weather conditions, pointed out Hawkins.

While Hawkins and his team continue to develop the technology’s best use, the COVID-19 test kit trial may have opened doors to better patient care despite distance, terrain and the Rockies’ harsh weather.



## Ensuring Judicious Orders of Complete Blood Counts

Many interventions that aim to modify the ordering of complete blood count (CBC) with white blood cell (WBC) differentia have focused on changing physician ordering practices, but clinicians at Vancouver General Hospital opted to make technologists who input the orders empowered to make the change.

“We came at it from a different perspective,” said Kristine Roland MD, FRCPC, Clinical Associate Professor, University of British Columbia and hematopathologist at Vancouver General Hospital in Vancouver, who noted she and colleagues were inspired by the Choosing Wisely Canada Campaign, the national voice for reducing unnecessary

tests and treatments in health care. “We realized that we could program rules in the middleware, regardless of what had been ordered, to optimize whether or not we need to proceed with a WBC differential.

Dr. Roland and colleagues noticed in reviewing blood work orders that clinicians who ordered a CBC with WBC differential tended to place more than one such order daily. “We were not entirely convinced that they always needed the white cell differential, that perhaps they were just ordering the CBC with [WBC] differential out of habit because that is what they normally do,” said Dr. Roland, noting that CBC with WBC differential is the first option in the order entry form. “We postulated that they probably weren’t wanting to recheck the [WBC] differential. One of the highest group of users were in the ICU.”

Dr. Roland and colleagues first consulted with the hospital’s head of ICU and confirmed that multiple CBC



Dr. Kristine Roland

orders were not placed to obtain more than one WBC differential daily. They then developed an algorithm to cancel any repeat WBC differential orders in a day, confining the algorithm in the middleware first to the ICU in 2019, where in the initial implementation there were “hiccups” in human error. Once the algorithm became bulletproof, Dr. Roland and colleagues broadened the use of the algorithm to the hospital at large in 2020.

“We would run the CBC but cancel a repeat differential and append with a comment saying ‘Please see previous differential,’” explained Dr. Roland.

The algorithm led to a monthly WBC differential cancellation rate of 5.40% for a total of 10,195 canceled WBC differentials during the cumulative post-implementation period (September 25, 2019, to December 31, 2020).



### Test Your Knowledge

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Almost all (99.94%) WBC differentials remained cancelled. The cancellations resulted in savings of CAD\$0.99 per cancelled differential. “It also resulted in about 100 fewer slides per month, which represents about 17 hours of tech time,” said Dr. Roland, adding that there was also a reagent savings of roughly \$350 monthly. “We had an extremely high acceptance rate from physicians, and the door was open to resurrect the [WBC] differential if a physician ever wanted to. It rarely happened and now rarely happens.”

Those 17 hours per month that are saved as a result of the middleware algorithm means a technologist could dedicate his or her time to other duties in the lab, noted Dr. Roland.

A future plan is to exploit the sophistication of the middleware with respect to work up of pleural fluid or cerebrospinal fluid, according to Dr. Roland.

Whether it is minimizing expired blood product at a hospital blood bank, using cutting-edge technology like drones to transport COVID-19 test kits, or developing computer algorithms to avoid unnecessary orders of lab work, these innovations in laboratory

medicine are inspiring. The stories illustrate the ingenuity and creativity that laboratory professionals can offer in challenging times in health care. They show that change in laboratory resource utilization can come from within, but remind us that teamwork, good communication and dedication are required for success. Together with laboratory innovation and patient care expertise, medical laboratory professionals can be the change needed to improve resource utilization and more. ■



LOUISE GAGNON  
Special to the CJMLS

#### REFERENCES

- <sup>1</sup> Lab Wisely. “Success Stories.” Accessed via <https://labwisely.ca/success-stories/>



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Brandon McLellan	Brittany Pelzer	Paige Sellars	Alyssa Tran	Sofia Zenela
Eleni Mellios	Larissa Penner	Shaghayegh Sepehri-	Mathieu Turgeon	Jessica Zhang
Maddi Meloche	Cynthia Phan	Boroujeni	Irina Ulici	Han Qian Zhang
Michaela Melvin	Emma Phillips	Hiralben Shah	Tselmeg Ulzii	Caspar Zhong
Mishel Melyashkevich	Vira Piliai	Niteen Sharan	Jessica Vaillancourt	Si Jie Zhou
Aimee Menard	Patrick Pillainayagam	Lara Shaya	Melanie Vallee	Krupa Zora
Julia Menegotti	Hailey Pittman	Reese Shearer	Brittany Van Keimpema	Samantha Zuniga

## MLT Cytology

Reza Abedini  
Curtis Born  
Charmaine Calosa  
Lauren Deneault  
Tatyana Epelbaum  
Ariyana Farahjasteh

Gabriella Galea  
Tsu Yu Huang  
Jiannan Huang  
Brynn Kokesch  
Arentxa Lemus  
Mahathelge Peiris

Casimira Rimando  
Jasmine Satosek  
Matthew Seto  
Hayley Sosnowski  
Samantha Torne  
Betty Wimalachandran

## MLT Clinical Genetics

Heidi Haegedorn  
Imaad Hamud  
Erik Hayes  
Corey Howe  
Ryan Lam  
Ashley Lucena  
Samantha Lui

Mary Madden  
Taras Makhnevych  
Sajila Masnun  
Coleman Meaney  
Andrew Mellow  
Eliana Nielsen  
Brittany Penner

Amelia Perri  
Breann Recksiedler  
Tishani Wijesuriya  
Julie Wu  
Chantane Yeung

## MLA

Cherryl Marie Abadilla  
Irene Abais  
Hanan Abdelhadi  
Amber Ackroyd  
Arthur Adamczak  
Lemeneh Addis  
Kehinde Adewole  
Tahmina Afroz  
Susanna Marie Agdan  
Mohamed Ahmed  
Samuel Alexander  
Alaa Al-Farawati  
Zahra Al-Hosseini  
Ammar Altawachi  
Amer Hassan Aly  
Annally Amparo  
Olamide Amure  
Christian Anozie  
Rossane Anthony  
Aydin Apaydin  
Ferdause Ara  
Rini Arayachandy  
Chimminian

Sheena Archambault  
Alysia Arsenault  
Nathan Arsenault  
Marren Ascalon  
Iram Asim  
Krista Augustine  
Christelle Ayroso  
Talal Badawi  
Ben Bagui  
Terry Baird  
Nisha Balan  
Sanjeev Baldev  
Marissa Baligod  
Portia Ball  
Jessica Barker-Noland  
Reygel Barlam  
Meagan Barlow  
Elida Bato  
Brook Baxter  
Brianna Beauchamp  
Kathryn Bell  
Alexandra Benedeczkzy  
Christine Binns

Ruxandra Blahoianu  
Leslie Blake  
Kayla Blanchard  
Victoria Bland  
Bea Therese  
Patricia Boado  
Clodie Boudreau  
Sarah Boutilier  
Emily Brant  
Natalie Breau  
Catherine Brendle  
Meagan Bromley  
Emma Brown  
Natalia Builes  
Jessica Buteau  
Lauren Buzzi  
Gracie Byram  
Nina Cabanaw  
Katelyn Caie  
Meaghan Campbell  
Sarah Canadien  
Fil Aldrin Noel Carbonel  
Johnna Mae Carillo  
Morgan Carr  
Savannah Carson  
Sarah Carter

Su Bin Cha  
Melanie Chagnon  
Nimra Chaudhary  
Pushpendrasingh  
Chauhan  
Anbereen Chawdhry  
Naomi Check  
Tinofadzwa Chiome  
Ashley Chisholm  
Annie Chuong  
Josie Clarke  
Olivia Clouthier  
Shakara Coates  
Nicole Collins  
Ariel Jr. Constantino  
Keesha Cooper  
Amy Creaser  
Kalei Crowell  
Megan Cullihall  
Angela Cummings  
Caroline Dagher  
Ly Dao  
Jessica Davies  
Dexter De Leon  
Kaelyn Deblois  
Dylan Dedora

Maria Karla Del Mundo  
Andra DeMaere  
Noemi Divino  
Alyssa Doerr  
Rosene Donaldo  
Adrienne Donkers  
Madison Dow  
Gel Dumalanta  
Rachel Dunn  
Abelene Durand  
Mona El Wanni  
Rima Eskandar  
Atefeh Esmailnejad  
Chukwuma Ezeike  
Ndidika Ezurike  
Sayeda Falgune  
Jessica Fall  
Christina Fanning  
Melissa Fanti-Cocco  
Mizelle Dawn Farinas  
Adebimpe Fasanya  
Yolandi Ferreira  
Nicole Flavell  
Britney Florin  
Suzanna Foote  
Bernadette Fruelda



Antonette Joy Gabales	John Joyson	Ashton Mean-Grant	Karen Penas	Yewande Suberu
Aaren Gagnon	Nyasha Katedza	Jessica Meiers	April Perocho	Angie Suitters
Bryanna Gallant	Jiwanjot Kaur	Madeline Melkic	Natasha Perry	Renita Sukhu
Mackenzie Gallant	Gurpreet Kaur	Grace Mercado	Nirmala Perumu	Yvette Ciara Suniga
Swatiben Gandhi	Jaipreet Kaur	Janie Michaud	Muththalage	Rajini Sureshkumar
Xingxi Gao	Eliza Kazi	Richard Miller	Julaluck Phongsa-nga	Ajitha Suryadevara
Manuel Garcia	Alicia Keddy	Destiny Miller	Makayla Plishka	Rashida Tariq
Anne Daniel Garcia	Megan Kelly	Filip Milutinovic	Dakota Poirier	Sarah Taylor
Brianna Garside	Abiola Kinyosoye	Himani Mittal	Jessie Poitras	Jaspreet Thandi
Aayusha Gautam	Sylvia Kirwan	Yehia Mohamed	Stephanie-Ruth Pritchard	Deepak Thapa
Akiko Gauthier	Corey Koerber	Halima Mohamud	Sabeen Rafi	Colleen Tremblay
Patricia Gauvin	Bobbi-Jo Kostyniuk	Asmaul Mohtarima	Mackenzie Ramm	Kevin Trinh
Carol Gignac	Chey Kranjec	Madison Moir	Brooklyn Rauser	Michelle Trzok
Haley Gladstone	Shichha Kunwar	Mian Monsayac	Julia Restituto	Zoe Tuckey
Frances Elaine Gohing	John Israel Laceste	Noella Mukashyaka	Danielle Reyes	Alina Turner
Amber Gray-Willaims	Lenzie Laceste	Jesha Ruth Paulle Muli	Ervin Reyes	Rizza Mae Ann Uniana
Destiny Green	Katrina Landry	Piraveen Murali	Rushelle Richmond	Amanda Urbshott
Caitlin Griffith	Abigail Langille	Nourin Nahar	Kayla Robichaud	Danielle Valenzuela
Sakshi Gupta	Tracy LaPointe	Leen Najjar	Gregory Hiram Rosales	Victoria Van Erp
Katelin Gurniak	Anita Larkin-MacDonald	Darla Nauss	Megan Rossetti	Dylan Van Gaalen
Mikayla Haapala	Joshua Lashendock	Tetyana Nemchenko	Andy Rousseau	Kara Van Soest
Cortney Haird	Lyn Sheen Layugan	Dione Ng	Sarah Rowell	Mae VanderKamp
Fayez Hamam	Tabhata Lazzara	Jessica Nguyen	Purnima Saha	Iran Vashghani Farahani
Ahnaf Hamid	Roberta Le	Thi guyen	Kamalpreet Saini	Maryamsadat Vaziriyeganeh
Fiona Hammond	Sojung Lee	Samantha Nickel	Jasnoor Sandhu	Linsay Kimberly Velasco
Hussam Eddin Hanifa	Yaniv Leichtmann	Maryline Nicolas	Jasmine Sandhu	Mohan Velpula
Hilary Hardwick	Spencer Leidl	Asma Noufel	April Rose Sapalo	Charisse Villanueva
Katie Harris	Mackenzie Leier	Ana Nunez Tinoco	Danielle Saraeb	Jon Bon Joeberth Villaruel
Suzan Hassanein	Karine Levesque	Michelle Nuttall	Tarek Sarhan	Linh Thao Vo
Anna Haverstock	Youn Levesque	Azeezat Adebimpe	Janine Sarmiento	Kasheka Wallace-Hall
Korina Hawkins	Nhiequel Lingat	Olabode	Erin Saulnier	Teagan Walters
Hayley Head	Andreah Link	Feyisetan Oladapo	Emilee Schipper	Kathryn Warnica
Haley Hernon	Jakki Lopez	Ghazal Omer	Nithiyadevi Seetharaman	Sara Watson
Kassandra Hibbs	Rachel Lupkoski	Chiagozie Onyekwelu	Racquel Serquina	Randi Webb
Stephanie Hill	Lori Ann Lyall	Rhina Pearl Orata-Tejada	Christiana Shobo	Sarah Wells
Bonnie Hineman	Michael Lynch	Joselyn Paladines	Kaitlyn Shreenan	Madison Welsh
Jennifer Hippenstall	Emily MacDougall	May Palencia	Misty Shropshire	Josee Wentzell
Jessica Hoppins	Madellen Maclean	Jacqueline Palotay	Leah Sills	Dezirae Whitehead
Mikeala Howell	Winmae Magbanua	Katrina Pangan	Mélanie Sirois	Samantha Whitney
Katalin Hronyecz	Nevaeh Magnuson	Lester John Panis	Brittany Smok-Mercier	Lauren Wilson
Faith Hunt	Atharv Mahajan	Louella Paracuelles	Susanna Snow	Kelsa Winsor
Kalie Hussey	Harmandeep Maheru	Jasmine Pardy	Leah Snyder	Noreene Wolf
Paswa Ismael	Ashima Mahey	Khatija Parekh	Mehnaz Sohail	Brooke Wolfe
Morgan Jackman	Yvette Manful	Zilfa Paster	Danica Soltek	Helen Wong
Jinwon Jang	Larissa Marshall	Ishitaben Patel	Elizabeth Somerville	Ashley Wood
Vanessa Jaramillo	Bennett Martin	Bansari Patel	Danielle Somwaru	Jinha Yang
Karyz Mae Javier	Gurleen Matharu	Jaykumar Patel	Cecilia Sousa	Alexander Yeo
Raslyn Jean	Marah Maveety	Sangitaben Patel	Kasmira St. Louis	Nyamer Yoh
Augie Joaquin	Hawra Mayoof	Sarune Patil	Cara Stanford	Nada Youssef
Kristen Johansen	Rita Mcdonald	Madisson Pawluk	Nicole Steil	Jin Min (Minna) Yun
Kaushal Joshi	Stephanie McGill	Leah Peach	Aires Suazo	Warda Zia 🇵🇰

## MEMBER SPOTLIGHT:

## MEAGAN GRAFF



Opportunities to advocate for the profession can come in many shapes, and 12-year CSMLS member Meagan Graff learned just that. Meagan, a Northern Alberta Institute of Technology instructor from St. Albert, Alberta, reached out to us for promotional and educational items for an upcoming school event, where she would introduce, and potentially entice, local youth to the profession. Following the event, we caught up with Meagan to learn more about her experience and what she learned from it all.

**What was the educational event you were invited to about? How did that opportunity come to be?**

My sister-in-law is a junior high school teacher and was helping to organize a career day at her school for grades 7 to 9. She invited me to be a panelist, where I was able to spend ten minutes with groups of about four to six students at a time and share a bit about the different laboratory professions.

I showed each of the groups a short PowerPoint presentation that highlighted the various disciplines of laboratory medicine and the important work that laboratory professionals do each and every day. I talked to the students to find out what the students might already know about the lab or tie in things to what they were learning in school. Many of them shared stories about experiences they or their friends or family had with the health care system, and I was able to tie those

stories back to one of the lab disciplines. It was a great opportunity to connect their knowledge with something new to them – the lab!

**How do you think speaking to students about the profession helped raise awareness of medical laboratory professionals' work and value in healthcare?**

There are so many fascinating careers and opportunities in the field of medical laboratory science, but they may not be as well known as some of the other more common health professions. The youth I interacted with were very keen to learn about laboratory science, and they could already draw parallels to concepts they had learned about in their science classes, such as different blood cell types, or the ABO blood group system. Many of them were also aware that the lab has played a really important role in COVID-19 testing, so it was easier to talk with them about the importance of laboratory professionals as a part of the healthcare team.

**What did you take away from this event? Was there a specific moment or interaction that stood out to you?**

I was really impressed with the knowledge many of the students had about clinical conditions like diabetes, even those in the earlier grades. It made it easier to interact with them as many were willing to share their own stories. A moment that stands out is when one student told me a blood bank joke! I didn't know it was going to be a joke at first, but then caught on as the story unfolded. I had quite a good laugh afterwards.

**Would you consider yourself a "Labvocate"? Did your experience at the career day change your opinion on that in any way?**

I would have considered myself a "Labvocate" before this event, but this was my first time speaking with younger students about the laboratory profession. I have done events such as an open house before, but this opportunity demonstrated to me that we really can (and should) "Labvocate" to anyone! 📣



**Looking for promotional items to share at an event?**

Email us at [info@csmls.org](mailto:info@csmls.org) for more information. We can send digital pamphlets, posters, stat cards with facts about all you do, a PowerPoint presentation and more.



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# 2021 PREMIER'S AWARD

## Recognizes a Lab Leader



Photo courtesy Christine Bruce.

"When I learned I was being nominated, I thought who, me? And then when I learned how rarely this honor falls to lab professionals, I was instantly humbled, and just so proud to represent my profession in this special way. I still can't believe it."

– CHRISTINE BRUCE

Awarded each year to trailblazing Ontario college graduates, the Premier's Award is an esteemed honour for many professionals and industry leaders. Last November, CSMLS member and award-winning laboratory professional Christine Bruce was nominated in the Health Sciences category.

Known as a thought-leader within the profession, this nomination was years in the making. In 2020, she was awarded the prestigious Gaman J. Modi Award of Excellence from CSMLS, with Modi in attendance for the award ceremony on University Avenue in Toronto.

Yet, she is most recently recognized for her work in the pandemic. As the director of the Sinai Health/UHN shared microbiology lab, she, with Dr. Tony Mazzulli, successfully guided their team to be the first hospital lab in Ontario to test for COVID-19. Now the senior director of University Health Network's laboratory medicine program, she is described as the epitome of a servant leader, modelling high standards of care with compassion.

The Premier's Award nomination spotlights not only Christine and her incredible career accomplishments, but the profession as a whole. Medical laboratory professionals were some of the first health care workers to be immersed in pandemic duties, and the demand for testing has not let up. Having a medical laboratory professional nominated and recognized for their pandemic work helps to raise awareness of the profession's vital role in health care.

*Congratulations, Christine, on the nomination – a first for a medical laboratory professional! 🎉*

# Society News

## LAB WEEK 2022: THE LAB CONTINUES TO SHINE

National Medical Laboratory Week celebrations are one way to shine a light on the work done in the lab, now in a pandemic, and beyond.

Throughout the week, we'll be sharing stories from the lab to help Canadians gain a better understanding of your role in their health care. The stories are inspiring and powerful, and they reveal the truth of your great work.

You can follow along on social media, @csmls on Facebook and Twitter and @csmls\_sclm on Instagram, to learn about your colleagues, read their stories and share them with your peers.

We encourage you to also use social media to share Lab Week with your network. You can download pre-written social media posts, DIY celebration items and games at [www.labweek.csmls.org](http://www.labweek.csmls.org).

The week is about shining a light on medical laboratory professionals, so to recognize you, there will be monuments across the country lit up in indigo.

We don't believe the celebration should be limited to just one week. We will continue to share your stories, photos and messages so Canadians know that medical laboratory professionals are continuing to work for them, all year long. 🇨🇦

### Medical Laboratory Professionals

perform millions of lab tests every day. They help diagnose everything from cancer to COVID-19, saving lives along the way.



The Indigo Lab Coat symbolizes the intelligence and dedication of medical lab professionals.

**CSMLS**  **SCSLM**  
Canadian Society for Medical Laboratory Science  
Société canadienne de science de laboratoire médical (SCSLM)

Learn more at:  
[medlabprofessionals.ca](http://medlabprofessionals.ca)

CSMLS member and artist Noemi Divino provided the artwork for the 2022 Lab Week posters.



# THANKS FOR ALL YOU DO!

## NATIONAL VOLUNTEER WEEK 2022

### APRIL 24-30

Every facet of CSMLS is powered by volunteers. From the Board of Directors to the Exam Panel to the Educator Committee, we rely on the dedication and commitment of our volunteers to drive our programs, committees and initiatives forward.

To mark National Volunteer Week, CSMLS would like to thank each and every one of

our volunteers; you are the heart of our organization and the community-builders of the laboratory profession. Thank you for volunteering your time, knowledge and expertise to give back to your fellow professionals and the Society.

Each year, we send a thank you gift to our volunteers. In 2021, volunteers received CSMLS-monogrammed blankets for some much-needed down time. Thank you to all volunteers who shared photos of their gifts to social media.

Visit [csmls.org](https://csmls.org) > **Membership** > **Volunteers** > **National Volunteer Week 2022** to see the list of our 2021 volunteers and celebrate their contributions to the profession.



# INVITATION TO THE CSMLS ANNUAL GENERAL MEETING



The 2022 Annual General Meeting (AGM) will be held virtually on Saturday, May 14, 2022. Details on how to register will be emailed directly to members and available through eNEWS.

Eligible CSMLS members are entitled to vote on motions during the AGM. If you cannot join the virtual meeting, you can still have your voice heard by assigning a proxy to vote on your behalf. Learn more about proxy voting at [go.csmls.org/proxy](https://go.csmls.org/proxy).

During the AGM, the results of the Board of Directors election will be announced. These elected directors are volunteers tasked with the responsibility of making decisions and guiding the management of the Society, which affects all members in Canada. Directors represent the CSMLS at various events and sit on board committees such as Grants, Scholarships & Awards; Legislation; and Finance; as well as special committees or taskforces.

This year, there were four open offices. Two offices, however, were acclaimed when the primary candidates ran with no opposition. Here are the nominees for the open offices as well as two of our 2023 incoming directors, who will begin their terms in January.

**Director, Alberta, Northwest Territories & Nunavut (position acclaimed)**  
Valentin Villatoro

**Director, Atlantic**  
Kim Alkalay  
Tiffany Clouston

**Director, Bilingual (position acclaimed)**  
Marie-France Jémus

**Director, MLA**  
Hansika Deepak  
Allie Shields  
Nickole Wlasichuk

CSMLS members were notified of the election through eNEWS and direct email. Voting for the Board of Directors was conducted through a secure online system. The results are confirmed by our auditor, Stephen Lohocki & Associates before they are revealed at the AGM.

## 2021 Annual Report



The CSMLS 2021 Annual Report will be available to view on the CSMLS website in April.

Visit [csmls.org/AnnualReport](https://csmls.org/AnnualReport) to view the full report, including financial figures, achievements, member awards, milestones and more.

# NATIONAL VOICE

As the national voice of Canada's medical laboratory profession, CSMLS represents the needs and concerns of medical laboratory professionals when working with laboratory and health care related organizations. The CSMLS Board of Directors, staff and volunteers attend meetings, conferences and events on behalf of CSMLS members and the entire medical laboratory profession.

We continue to take the necessary precautions to keep staff, collaborators and members safe, so many of the meetings we usually attend in person are now virtual or via phone. While not all events contribute directly to the national voice, we have been working with media, policymakers and collaborators each month. Here is where your voice was recently heard.

## NOVEMBER

Conference Board of Canada:  
National Immigration Centre  
(NIC) — Members Meeting  
*VIRTUAL MEETING*

The Michener Institute of Education:  
MLA to MLT Laddering Feasibility  
*VIRTUAL MEETING*

Manitoba Association of Medical Laboratory  
Science (MAMLS) Annual General Meeting  
*VIRTUAL PRESENTATION*

British Columbia Institute of Technology:  
Exam Timing for Clinical Genetics  
*VIRTUAL MEETING*

Presentation to Canadian Society for Association  
Executives (CSAE) – Culture is King  
*VIRTUAL CONFERENCE*

Canadian Association of Allied Health  
Professions (CAAHP): Mental Health Survey  
Findings – Joint Presentation with Canadian  
Association of Medical Radiation Technologists  
(CAMRT) and Sonography Canada (SC)  
*VIRTUAL PRESENTATION*

Colleges and Institutes Canada (CICAN)  
Virtu-WIL Advisory Committee: Simulation  
*VIRTUAL MEETING*

Red River College Presentation:  
Generations and Customer Service  
*VIRTUAL PRESENTATION*

Government of Canada – Sectoral Workforce  
Solutions Grant Funding Meeting  
*VIRTUAL MEETING*

Anderson College: IEMLT Bridging Program  
Letter of Support  
*VIRTUAL MEETING*

The CSMLS is a member of the National Immigration Centre (NIC), which is run by the Conference Board of Canada. The NIC is a not-for-profit organization that aims to strengthen Canada's immigration system by hosting events and publishing evidence-based research.

CSMLS attends quarterly member meetings to provide a laboratory-specific perspective to NIC projects. As immigration and bridging programs are part of our long-term strategy to mitigating the MLT shortage, we are proud to participate in the NIC's initiatives.

## JANUARY

Saskatchewan Society of Medical  
Laboratory Technologists (SSMLT) –  
Provincial Recruitment Plans  
*VIRTUAL MEETING*

Colleges and Institutes Canada (CICAN)  
Virtu-WIL Advisory Committee: Simulation  
*VIRTUAL MEETING*

OnTechU – Micro-credentials and  
Interprofessional Education Project  
*VIRTUAL MEETING*

BC Allied Health Policy Secretariat  
Presentation: Findings from  
Strategy Consultation  
*VIRTUAL PRESENTATION*

Regulation Meeting with College  
of Medical Laboratory Technologists of  
Ontario (CMLTO)  
*VIRTUAL MEETING*

Regulation Meeting with College of  
Medical Laboratory Technologists  
of Alberta (CMLTA)  
*VIRTUAL MEETING*

Pre-Budget Consultation with Ontario  
Minister of Finance Peter Bethlenfalvy  
*VIRTUAL MEETING*

Equal Canada (Accreditation Canada) –  
Accreditation of Ontario Medical  
Laboratory Assistant Programs  
*VIRTUAL MEETING*

Virtual School Visit: Student Presentation  
*VIRTUAL PRESENTATION*

Advocacy Outreach Meeting  
on MLA Regulation with Alberta Minister  
of Health Jason Copping  
*VIRTUAL MEETING*

## DECEMBER

Government of Canada – Sectoral  
Workforce Solutions Grant Funding Meeting  
*VIRTUAL MEETING*

HEAL (Organizations for Health Action)  
Quarterly Meeting  
*VIRTUAL MEETING*

Manitoba Health Policy Analyst –  
Consultation on Regulatory and Policy Scan  
*VIRTUAL MEETING*

College of Allied Health Professionals of  
PEI/CSMLS – Orientation  
*VIRTUAL MEETING*

Regulation Meeting with College of  
Medical Laboratory Technologists  
of Ontario (CMLTO)  
*VIRTUAL MEETING*

Using Labs Wisely Steering Committee  
(Choosing Wisely Canada)  
*VIRTUAL MEETING*

The Michener Institute of Education:  
MLA to MLT Laddering Feasibility  
*VIRTUAL MEETING*



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