

Identifying Best Practices of Paramedics Associations Across Canada

Includes:

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Introduction

The Nova Scotia Paramedic Professional Association (NSPPA) has established a professional association to support and advocate for its members, making this research report particularly relevant in identifying the best practices for paramedic professionals. Initially, the study focused on a literature review. However, to gather deeper insights, it was decided to shift the research approach to semi-structured interviews with paramedic leaders across Canada. We developed a structured list of interview questions to identify best practices for resolving commonly faced challenges in the paramedic profession. Due to time constraints, we created a surrogate paramedic leader utilizing two generative artificial intelligence (AI) platforms including, ChatGPT and Microsoft CoPilot to generate interview responses from the perspective of a paramedic leader. The full list of interview questions and responses can be found in the appendix. To analyze these generative AI responses, we found common themes with the insights collected during a virtual meeting with the Nova Scotia Paramedic Professional Association (NSPPA). The NSPPA highlighted concerns regarding career longevity and the need for higher education in paramedicine. From this comparison, we identified three common themes: higher education/career longevity, professional development, and mental health initiatives/work-life balance. To further support our qualitative findings, we conducted additional research to determine the best practices to explore for professional paramedic associations. One key challenge contributing to career stagnation is the lack of career growth opportunities, which can be addressed through higher education and professional development programs. To maintain a sustainable career in paramedicine the implementation of mental health programs and work-life balance initiatives are essential for promoting a fulfilling career in paramedicine.

Higher Education and Career Longevity

University Education in Paramedicine

University of Toronto's Paramedicine program is grounded in the life science and focuses on the critical thinking, research and laboratory experience required to help save lives (University of Toronto, n.d.). Students examine the spectrum of emergency medical, trauma and psychological situations faced by today's healthcare professionals. Students are then prepared for the Ontario Ministry of Health Advanced Emergency Medical Care Attendant (AEMC) exam which positions graduates for advanced careers in the field of emergency medical services. Students in Paramedicine earn an Honours Bachelor of Science degree and an Ontario College Diploma while learning from leading academics and professionals. This program provides Paramedicine grads with the following set of essential skills ranging from the ability to accurately evaluate injuries, determine treatment priorities and ensure patient transport. They are trained on a strong foundation of communication skills to effectively interact with patients and understand human behaviour and psychological disorders preparing graduates for psychological scenarios. They are also educated on operational efficiency to maintain ambulance safety, analyze scientific literature, and apply laboratory technologies and techniques interpreting data while documenting the injuries, illnesses and treatment provided. This undergraduate degree provides the foundation for further educational opportunities in emergency and disaster management certificate, diploma, or master's programs. Many graduates from this program pursue the following further education, a master's in healthcare administration, certificate in advanced care paramedicine, a master's in public administration and a PhD in public health.

Greater Opportunities for Specialization

Higher education in paramedicine creates opportunities for further specialization in areas such as critical care, community health, and advanced clinical roles (EMS1, 2024). These career

specialization opportunities reduce the risk of burnout by offering diverse and challenging experiences within the profession resulting in longer and more sustainable career paths in paramedicine. As paramedic roles continue to evolve, advanced skills and education have become essential to meeting the evolving healthcare demands. Higher education equips paramedics with the qualifications for leadership, research, and academic roles, allowing them to influence policy development. The integration of practical experience and hands-on training in university education enhances the effectiveness of paramedic practice and improves patient outcomes through clinical decision-making and adherence to best practices, like the positive impact seen in nursing.

Enhancing Paramedicine Education for Career Readiness

There is a growing need to identify the contemporary barriers to learning within the context of early career training in paramedicine education that has become crucial to the profession's success (Hanna, H. et al., 2021). The paramedicine profession has undergone significant educational advancements since the introduction of the first paramedicine undergraduate degree. As paramedicine evolves, it is essential to identify barriers to learning early in career training to ensure the successful development of competent paramedics. Hanna, H. et al (2021) highlights several critical areas for improving paramedic education and professional preparedness by using experienced paramedics to guide students in clinical settings to help shape students' practical skills, decision-making abilities, and confidence. Effective mentoring is an essential step for bridging the gap between theoretical knowledge and real-world application as it ensures students are prepared for high stress emergency situations. A common challenge faced by new paramedic graduates are found to be engaging in conversation with patients, families etc. as newly grads tend to lack basic communication skills. Training that integrates emotional intelligence benefits

paramedics by building stronger communication skills resulting in stronger relationships with and improved patient care. Traditional ambulance placements provide limited exposure to a diverse range of healthcare settings whereas non-traditional placements such as community health programs, mental health services, and emergency management roles, provide a broader understanding of patient care. This helps students develop adaptability, problem-solving skills, and provides a comprehensive approach to patient management. Classroom based learning alone is insufficient to fully prepare paramedicine students for on-the-job experiences. Non-traditional teaching strategies such as, simulated emergencies, virtual reality training, interprofessional education, and scenario-based learning have proven successful in enhancing student engagement and proficiency. These approaches reflect real-world challenges and allow students to refine their clinical reasoning skills in a controlled environment. Strengthening collaboration between universities, paramedic services, and healthcare organizations is necessary to align educational context with the realities of the job. Improved dialogue between educators and industry professionals can help refine training models, address skill deficiencies, and enhance workforce readiness. Overall, higher education in paramedicine is a critical factor in ensuring long-term career success, patient safety, and a sustainable method to career advancement. By integrating effective monitoring, emotional intelligence training, non-traditional placements, and innovative teaching methods, paramedicine programs can better prepare students for the demands of real-world emergency care.

Advancing Education in Paramedicine and Leadership

Many paramedics in Canada pursue roles in education, clinical skills instructors, or facilitators of continuing education within their services (Cameron, C., & Batt, A. M., 2024). Recognizing the importance of both in-service educator roles and formal teaching positions in educational

institutions encourages paramedics to pursue training, certificates, micro-credentials, or postgraduate teaching qualifications to advance their careers beyond preceptors/instructors. Higher levels of educational development often require a master's or doctoral degree, along with executive leadership training to expand career opportunities. Collaborative partnerships between paramedic services, employers, and universities strengthen educational frameworks, refine assessment strategies, and integrate education as a core component of career longevity. These initiatives not only support individual career growth but also strengthen the connection between paramedic training, professional development, and leadership within the paramedicine profession.

Meeting the Evolving Needs of Paramedicine

As paramedicine in Canada continues to evolve in response to shifting system demands, social responsibility, changing patient demographics, and public expectations, paramedics are now required to participate in expanded roles across various health and social contexts (Cameron, C., & Batt, A. M., 2024). To support these evolving responsibilities, the profession is moving toward degree-entry education and self-regulation across Canada. While utilizing paramedics to meet new healthcare demands is beneficial, some of these roles are highly specialized and may require postgraduate-level education and training. Current and emerging career pathways for paramedics include advanced practice roles in community and primary care, critical care and retrieval, special operations, military service, mental health, substance use, and virtual care. To ensure paramedics can effectively operate in these highly autonomous roles, appropriate educational preparation and greater flexibility on regulatory models will be essential.

Professional Development

Creating Meaningful Career Paths

To retain paramedics for long-term careers, Emergency Medical Services (EMS) must provide competitive compensation and create meaningful career paths (Kirkwood, S., 2024). Paramedics have transitioned into leadership positions quickly to keep their career progressing. They often lack management training. A strong knowledge base is crucial to their effectiveness in higher level positions. Many paramedics pursue higher-paying roles, usually in nursing or as physician assistants which offer 30-50% higher wages. To maintain experienced paramedics the agencies must provide growth opportunities, fair wages, and engaging roles. Previously, career advancement meant moving away from patient care into limited leadership positions, pushing many paramedics disinterested in leadership roles into leaving EMS for more fulfilling careers. The purpose of the EMS career ladder is to retain experienced paramedics who remain actively engaged in direct patient care aboard ambulances. This creates an opportunity for meaningful compensation while ensuring that paramedics can achieve financial growth comparable to those who move into supervisor roles. Encouraging professional development and higher education is beneficial for the paramedic, organization, and the overall profession. The EMS career ladder was developed by studying career structures in hospitals, law enforcement, fire services, and the military to address high turnover among experienced paramedics. Kirkwood (2024) had a goal to create a non-supervisory career paths that allow paramedics to expand their roles while adding value to the profession while receiving comparable compensation to experienced supervisors. The EMS career ladder aligns with clinical ladders in nursing and established ranked positions finalizing on six career ladders: Clinical, Instructional, Public Information and Education, Special Operations, Administration and Finance, and Special Events and Mass Gatherings. To advance paramedics in their careers they must first meet the prerequisites, including a minimum

of two years of experience in the local EMS system with no major disciplinary actions. They must also demonstrate proficiency in Microsoft Office while maintaining a good standing with the medical directors and have successfully passed the EMS physical abilities test within the previous year. They must also have completed foundational training courses in field training, ethics, leadership, safety, and managing violent encounters.

Professional development for Paramedicine in Nova Scotia

Nova Scotia offers paramedics extensive opportunities for career growth and professional development through research, elective education, and special events (Paramedic Careers, 2025). Paramedics have the option to enhance their skills and expand their scope of practice while working in a system with a broad range of clinical responsibilities. To support career advancement, Nova Scotia provides subsidized career development opportunities which allows paramedics to apply for financial assistance for PCP/ACP training programs after only six months of employment with EHS operations. Many paramedics have utilized this funding to further their education and expand their expertise. Additionally, the paramedic tuition bursary program provides an amount up to 100% of tuition and fees at the Nova Scotia student rate for eligible paramedic students who commit to working full-time for Emergency Medical Care Inc. (EMC) in Nova Scotia as a PCP for four years following graduation. These initiatives make Nova Scotia a strong choice for paramedics seeking long-term career development and financial support for continued education.

Paramedic Programs in British Columbia

In British Columbia, a certified primary care paramedic (PCP) may advance their career in paramedicine with fast and flexible educational programs (JIBC, 2021). The JIBC Diploma in

Health Science provides flexible part-time and full-time online study opportunities to cater to working paramedic professionals wishing to advance their career paths. A PCP with a minimum of two years of work experience may be eligible to apply for the Advanced Care Paramedic (ACP) program. This 20-month program provides in-depth training in critical areas such as patient assessment, advanced clinical interventions, pre-hospital decision making, evidence-based methodologies, and advanced pharmacology. It has been designed for paramedics looking to specialize in advanced clinical practice and take on leadership roles in pre-hospital care. This program exceeds the National Occupational Competencies set by the Paramedic Association of Canada and is fully accredited by Accreditation Canada providing opportunities for career advancement.

Leadership Development

Organizational leadership and mentorship in paramedicine provide the skills that are essential for all paramedics especially those seeking formal leadership or management roles within organizations (Cameron, C., & Batt, A. M., 2024). Effective leadership is essential for sustaining and enhancing system-wide improvements in paramedicine, making leadership development a key component in professional growth. Many paramedic associations offer system leadership frameworks to provide valuable guidance for paramedics interested in developing their leadership abilities. Additionally, work-based mentorship and leadership opportunities should be encouraged within and beyond EMS organizations to help paramedic managers gain hands-on experience and build essential leadership and management skills.

Advancing the Paramedic Profession

The future of paramedicine in Canada requires strategic advancements in education, policy, research, and technology to support career longevity and professional development (Tavares, W., 2021). Addressing limited career advancement opportunities in paramedicine may involve embracing partnerships across different healthcare sectors while implementing a culture of continuous learning with the integration of evolving technology. The evolution in paramedicine has created new opportunities that can be categorized into three broad areas. First, paramedics must take responsibility for advancing their own profession by prioritizing wellness, research, and continuous improvement to maintain efficiency. Second, greater accountability to the public is essential in empowering communities to shape accessibility and address social inequities. Third, paramedicine should be integrated as a collaborative healthcare solution by bridging gaps in health care and expanding beyond traditional emergency responses and transportation. To ensure the evolving healthcare demands are met it is essential to implement continuous training, professional development, and specialized certification programs. A commitment to lifelong learning, innovation, and adaptability will ensure paramedicine remains successful and respected, benefiting both paramedics and the communities they serve.

Mental Health Initiatives and Work-Life Balance

High-Risk of Burnout

Emergency medical services (EMS) professionals work in highly intense environments that, if not properly managed can result in burnout (Lifeline EMS, 2024). The demanding nature of the job, long hours, and frequent exposure to traumatic situations place significant physical and emotional strain on paramedics and emergency medical technicians (EMTs). Emotional strain is a major challenge as paramedics regularly encounter severe and life-threatening injuries/emergencies which can impact one's emotional and mental well-being. The physical

demands of the job, including lifting patients, carrying heavy equipment, and working extended shifts often result in fatigue and physical exhaustion. Many paramedics must work irregular hours due to the unpredictable nature of emergency calls resulting in disrupted sleep patterns and reduced social lives. The high-pressure environment of EMS requires quick and critical decision making under stressful conditions contributing to mental fatigue and chronic stress. Recognizing these risks and implementing strategies for stress management, work-life balance, and mental health support is essential to ensuring the well-being and longevity of EMS professionals in their careers.

Preventing Burnout

Maintaining career longevity in EMS requires proactive self-care, strong support systems, and continuous professional development (Lifeline EMS, 2024). Prioritizing self-care by supporting physical, emotional, and mental well-being is essential for sustaining energy and resilience in the demanding profession of paramedicine. Getting enough exercise, rest, maintaining proper nutrition, and scheduling in personal time improves overall well-being and increases job satisfaction. Developing a strong support network by building relationships with coworkers, family members, and friends provides emotional support and reduces feelings of isolation. Engaging in peer support programs and maintaining strong social connections with peers provides encouragement and a different perspective on workplace challenges. Setting realistic expectations and understanding that every situation is unique and unpredictable helps to prevent unnecessary stress. Accepting personal limits, recognizing, and celebrating small wins and embracing continuous learning fosters sustainable professional growth. Practicing effective time management reduces stress and enhances work-life balance. Engaging in professional development by continuing education promotes motivation, job engagement, and reinforces

adaptability in an evolving industry. Attending workshops, conferences, and networking events provides opportunities for paramedic professionals to learn new techniques and best practices. Participating in mentorship opportunities from experienced EMS professionals provides guidance, career advice, and support in navigating challenges. Incorporating wellness programs, stress management workshops, and advocating for policies that promote work-life balance, including flexible scheduling and fair overtime practices provides the base for a sustainable career.

Providing a Supportive Work Environment

Los Angeles and southern California Lifeline EMS Ambulance Service offers a supportive environment for paramedics by prioritizing employee well-being and professional growth (Lifeline EMS, 2024). LifeLine EMS helps to prevent burnout and increase motivation by providing ongoing comprehensive training and development programs that focus on employee wellness by providing a supportive work environment and offering flexibility with scheduling to provide a work-life balance. The organization provides training and development programs, advanced certifications, continuing education, and workshops, to foster professional growth. Employee wellness is a priority, with stress management programs, mental health support, and fitness initiatives designed to help paramedics handle the physical and emotional demands of the job. The organization fosters a positive and inclusive workplace culture by encouraging open communication, teamwork, and employee feedback.

Importance of Work-Life Balance

Work-life balance is essential for maintaining productivity and the overall success and well-being of both professional and personal lives (Ilmaz, S., & Soyuk, S. 2022). A successful work-

life balance strengthens overall productivity, mental well-being, and job satisfaction. When individuals successfully separate their professional and personal roles they can manage stress more effectively, leading to greater success in both areas. A well-balanced life contributes to happiness and motivation whereas a poor work-life balance results in burnout, causing reduced motivation and mental health related issues. Maintaining an equilibrium between work and personal life allows individuals to navigate challenges more effectively. This is essential in the paramedicine profession as it improves career longevity, prevents burnout and mental health issues, enhances job performance resulting in better patient care.

Leveraging Technology

The integration of digital healthcare education has been transforming training for both medical and paramedic students through the adaptation of virtual training programs and telemedicine technologies (Grosjean, J., 2024). These technological advancements provide real-time guidance, support, and information improving efficiency with staffing shortages. Artificial intelligence (AI) and natural language processing (NLP) have been incorporated into training programs by creating virtual patients and professionals enhancing on-the-job training and support. In France, digital health has been integrated into medical education as part of public health training. However, prior to 2022, digital health training was absent from paramedical schools. To address this gap, the French Ministry of Health launched an initiative to support innovative academic and professional education programs focused on digital health. This project aims to modernize healthcare training by incorporating continuous learning, competency-based assessments, and advanced digital tools into clinical practice.

The Benefits of Virtual Reality

Virtual reality (VR) immerses users in a computer-generated 3D world, simulating real-world interactive experiences through sensory input devices and has been found beneficial in psychiatric treatment and PTSD therapy (Maples-Keller, J. L., 2017). This technology has been particularly effective in psychiatric treatment for anxiety disorders, phobias, and PTSD by offering controlled and immersive exposure therapy. VR supports extinction learning which involves the gradual decline in automatic fear responses to a conditioned stimulus. VR enhances this treatment by allowing complete control over the exposure environment making it possible to include elements that would otherwise be too expensive. VR exposure therapy (VRE) enables controlled simulations of stressful environments, such as combat zones used in PTSD treatment for veterans. In a case involving a Vietnam combat veteran, symptoms significantly decreased, with a reduction rate of 34% in clinician-rated symptoms and a 45% decline in self-reported symptoms. These findings highlight VR's effectiveness as a therapeutic tool.

Conclusion

This study highlights the critical role of career longevity in paramedicine and its strong correlation with higher levels of university education, professional development, and mental health initiatives. Advanced education fosters career growth while enhancing knowledge on best practices and improving overall patient care. Professional development provides opportunities for specialization, leadership roles, and continuous learning contributes to greater job satisfaction and long-term career fulfillment. Given the high-stress environment of the paramedic profession it is essential to incorporate mental health initiatives to ensure career sustainability. With increasing rates of PTSD and burnout many paramedics leave the field early on their careers due to lack of mental health support. Wellness programs and mental health support along with work-life balance initiatives in flexible scheduling help to maintain a sustainable balance improving

retention and job performance. The continuous advancement in healthcare provides the opportunity to incorporate emerging technologies such as virtual reality (VR). This has been transforming paramedicine by advancing training and development as well as, mental resilience further supporting career longevity. While AI generated insights provide valuable perspectives on paramedic leaders, future research should incorporate firsthand interviews with experienced real-life paramedic leaders to provide deeper insights. Conducting further research to identify the effectiveness of specific mental health programs to determine which interventions are most beneficial for this profession will ensure the efficient use of resources. Evaluating existing mental health programs and measuring their impact on burnout rates will help identify best practices for implementation within the paramedic profession for improved career sustainability. Further research should explore the impact of higher education in paramedicine by interviewing paramedic professionals with advanced degrees to gather a better understanding of how additional education has influenced their careers.

Appendix

Generative AI as a Surrogate Paramedic Leader for Qualitative Interview

ChatGPT Interview from the Perspective of a Paramedic Leader (OpenAI. 2025).

Section 1: How do paramedic leaders best serve their members?

1. What do you think makes a Paramedic Association truly valuable to its members?

A Paramedic Association is most valuable when it serves as a strong advocate for its members, ensuring their voices are heard at the provincial and national levels. It should provide professional development opportunities, support mental health and wellness, and work to advance the profession through research and policy recommendations. Effective associations create a sense of community by fostering collaboration, offering mentorship, and promoting initiatives that enhance paramedic well-being and career growth.

2. What do your members tend to love most about the association?

Members appreciate the sense of belonging and advocacy the association provides. They value networking opportunities, professional development resources, and the support in navigating workplace challenges. Mental health initiatives, peer support programs, and efforts to improve working conditions—such as fair wages and shift scheduling—are among the most well-received aspects. Many also appreciate the association's role in public awareness, ensuring that paramedics are recognized for their vital contributions to healthcare.

3. What do paramedics in your region expect from the association and how have those expectations changed over time?

Traditionally, paramedics expected the association to provide representation in labor matters and advocate for better wages and benefits. Over time, expectations have expanded to include

support for mental health, wellness programs, leadership development, and career progression opportunities. In recent years, there has been a growing emphasis on addressing burnout, workplace violence, and the need for advanced medical training to keep pace with evolving healthcare demands.

4. What are the greatest concerns paramedics bring to your attention within your association?

The most pressing concerns include excessive workloads, burnout, mental health struggles, and long response times due to staffing shortages. Paramedics frequently express concerns about workplace safety, particularly regarding exposure to violence and post-traumatic stress. They also raise issues about career stagnation, limited opportunities for specialization, and the need for improved work-life balance. Many seek advocacy for fair compensation and improved recognition within the healthcare system.

5. Which initiatives and/or programs have you found to be the most impactful for your members?

Mental health and peer support programs have been among the most impactful, offering paramedics a safe space to discuss challenges and access professional help. Leadership development initiatives have also been crucial, providing pathways for career growth. Efforts to streamline continuing education, such as online learning platforms and certifications, have improved accessibility for members. Advocacy campaigns aimed at securing better wages, benefits, and working conditions have also had a significant positive impact.

6. Do you have any unresolved needs among your members that your association is working to address?

Yes, one of the biggest ongoing challenges is ensuring adequate mental health resources that are tailored specifically to paramedics' unique experiences. Additionally, we continue to work on addressing staffing shortages, advocating for sustainable shift schedules, and pushing for regulatory changes that recognize paramedics as an essential part of the broader healthcare system. Career advancement pathways, including expanded roles in community paramedicine, remain a key focus for future development.

Section 2: What is the role of the Paramedic Association in a region with public utility model, multiple unions, and self-regulating body of professionals? What is the role in complex governance models?

7. Can you describe the governance model in your province and how your association fits into it?

In most Canadian provinces, paramedics operate within a complex governance model that includes a mix of public utility models, provincial regulatory bodies, and multiple unions. The paramedic profession is regulated in some provinces, such as Alberta and Saskatchewan, while in others, oversight falls under provincial health ministries. Our association serves as a non-unionized professional body that advocates for paramedics' interests beyond labor disputes, focusing on career development, education, mental health, and system-wide improvements. We work collaboratively with unions, regulators, and policymakers to ensure paramedics' needs are met while advancing the profession as a whole.

8. NSPPA is navigating relationships with multiple unions and regulatory bodies. How does your association balance these relationships while maintaining a strong voice for paramedics?

Balancing relationships with unions and regulatory bodies requires maintaining clear, neutral, and constructive communication with all parties. While unions focus on collective bargaining and employment-related matters, regulatory bodies oversee professional standards and licensing. Our role is to bridge the gap by advocating for policies that enhance the profession while respecting both labor rights and public safety. We prioritize transparency and collaboration, ensuring that paramedics' voices remain at the center of all discussions.

9. How do you handle situations where unions and regulatory bodies have conflicting priorities?

When unions and regulatory bodies have conflicting priorities, we act as a mediator, ensuring that decisions benefit paramedics without compromising professional standards or patient care. We focus on evidence-based advocacy, using data and research to present solutions that align with both labor interests and regulatory expectations. In cases where conflict arises, we facilitate dialogue, emphasizing the long-term sustainability of the profession rather than short-term disputes.

10. How do you ensure that the voices of all members are heard even those of underrepresented groups?

Ensuring that underrepresented groups have a voice requires intentional outreach and engagement strategies. We have dedicated diversity and inclusion committees, conduct member surveys, and hold town halls to gather feedback. We also work with affinity groups, such as Indigenous paramedic networks, women in paramedicine, and LGBTQ+ organizations, to ensure diverse perspectives shape our policies. Our leadership structure includes representation from various backgrounds, allowing for equitable decision-making.

11. What strategies do you use to build trust and maintain positive relationships with all stakeholders?

Building trust starts with consistent, transparent communication. We maintain regular touchpoints with unions, regulatory bodies, government agencies, and frontline paramedics through advisory councils and working groups. We focus on collaborative problem-solving rather than adversarial debates, ensuring that our actions align with the profession's long-term interests. Additionally, we emphasize accountability, demonstrating measurable progress on key issues such as mental health resources, education, and workplace safety.

12. What mistakes have you seen in governance negotiations and what lessons can others learn from them?

One of the biggest mistakes in governance negotiations is failing to include all key stakeholders early in the process. Excluding certain voices can lead to resistance and policy setbacks. Another common mistake is allowing negotiations to become overly adversarial, which can create long-term divisions rather than sustainable solutions. The key lesson is that successful governance requires ongoing engagement, data-driven decision-making, and a commitment to solutions that prioritize both paramedics and patient care.

Section 3: What best practices of paramedic associations emerge from research?

13. How do you measure the impact of your programs/services provided to your association members?

We use a combination of qualitative and quantitative measures to assess our programs' effectiveness. Member surveys, engagement metrics, and program participation rates help us gauge interest and satisfaction. We also analyze workforce data, such as retention rates, mental health outcomes, and professional development advancements, to determine long-term impact.

Regular feedback from paramedics, through town halls and advisory panels, ensures that our initiatives remain relevant and responsive to their evolving needs.

14. What is an achievement or initiative that your association is most proud of and what is the reasoning behind it?

One of our most impactful initiatives has been the implementation of a comprehensive mental health and wellness program tailored specifically to paramedics. This initiative, which includes peer support networks, access to trauma-informed therapists, and resilience training, has significantly improved mental health outcomes among our members. We are especially proud of this because it directly addresses the high rates of PTSD, burnout, and operational stress injuries in the profession, helping to reduce stigma and improve long-term career sustainability.

15. Have you experimented with any innovative approaches to support paramedics and what have you found to be successful?

Yes, one of our most successful innovations has been the use of virtual reality (VR) training for paramedics. This technology allows paramedics to practice high-stress scenarios, such as mass casualty incidents or pediatric emergencies, in a controlled environment. The immersive nature of VR helps develop decision-making skills and stress management techniques. We've also introduced mobile wellness clinics, bringing mental health and wellness services directly to paramedics at their workplaces to improve accessibility.

16. Have you found any unexpected strategies that resulted in great improvements and if so, what are they?

One unexpected but highly effective strategy has been partnering with military and law enforcement organizations to share best practices in resilience training and trauma management. Learning from these sectors, which have long histories of managing high-stress environments,

has allowed us to refine our mental health programs. Additionally, providing education and resources for paramedics' families—has significantly improved workplace morale and retention, as strong family support plays a critical role in a paramedic's ability to manage job-related stress.

17. What knowledge have you acquired from other industries or fellow paramedic associations that you now utilize within your regular operations?

We've drawn valuable insights from the aviation industry, particularly around crew resource management (CRM) and human factors training. Applying these principles has improved communication, teamwork, and safety in paramedicine. We've also studied best practices from corporate HR in areas such as leadership development and employee engagement strategies, which have helped us build stronger mentorship programs and professional growth opportunities for paramedics.

18. What would you describe as the most important lesson you have acquired from your association?

The most important lesson has been that advocacy must be proactive, not reactive. Waiting until a crisis arises to address key issues—whether staffing shortages, mental health concerns, or regulatory challenges—puts paramedics at a disadvantage. By continuously engaging policymakers, healthcare leaders, and the public, we ensure that the profession remains strong, well-supported, and prepared for future challenges. Additionally, we've learned that true progress comes from collaboration, and that by working alongside unions, regulatory bodies, and healthcare organizations, we can create meaningful and lasting improvements for paramedics.

CoPilot Interview from the Perspective of a Paramedic Leader (Microsoft, 2025).

Section 1: How do paramedic leaders best serve their members?

1. What do you think makes a Paramedic Association truly valuable to its members?

A Paramedic Association is truly valuable when it effectively supports its members through advocacy, education, and community building. Advocacy ensures that paramedics have a voice in policymaking and that their concerns are heard at local, provincial, and national levels. Education programs provide ongoing training and professional development opportunities, helping paramedics stay up to date with the latest best practices and advancements in the field. Community building fosters a sense of belonging and mutual support among members, creating a network of professionals who can share experiences, knowledge, and resources. Ultimately, a valuable association is one that is responsive to its members' needs, promotes their well-being, and advances the profession as a whole.

2. What do your members tend to love most about the association?

Members often appreciate the sense of camaraderie and support that comes from being part of a professional association. They value the opportunities for networking and connecting with peers who understand the unique challenges and rewards of the profession. Additionally, members love the access to high-quality continuing education and training programs that help them stay current and excel in their roles. Advocacy efforts that result in positive changes to working conditions, safety protocols, and compensation are also highly valued by members, as they directly impact their daily lives and overall job satisfaction.

3. What do paramedics in your region expect from the association and how have those expectations changed over time?

Paramedics in our region expect the association to be a strong advocate for their interests, providing a unified voice in discussions with government and regulatory bodies. They also expect access to ongoing professional development opportunities and resources that support their

career growth. Over time, these expectations have evolved to include a greater emphasis on mental health and wellness support, reflecting a growing awareness of the importance of self-care in a demanding profession. Additionally, paramedics now expect the association to be more proactive in addressing emerging issues such as advancements in technology, changes in healthcare delivery, and the impact of global events like the COVID-19 pandemic.

4. What are the greatest concerns paramedics bring to your attention within your association?

The greatest concerns paramedics bring to our attention include issues related to mental health and well-being, job-related stress, and burnout. They are also concerned about workplace safety, including exposure to violence and infectious diseases. Additionally, paramedics often raise concerns about staffing levels, workload, and the need for better work-life balance.

Compensation and benefits are also common topics of concern, as paramedics seek fair wages and adequate support for their demanding roles. Addressing these concerns requires a multi-faceted approach, including advocacy, education, and support programs.

5. Which initiatives and/or programs have you found to be the most impactful for your members?

Some of the most impactful initiatives and programs include mental health and wellness support programs, such as peer support networks, counseling services, and stress management workshops. Continuing education and professional development opportunities, including specialized training and certification programs, have also been highly beneficial for members. Advocacy efforts that result in improved working conditions, safety protocols, and compensation have made a significant positive impact on members' lives. Additionally, community-building

activities, such as conferences, networking events, and social gatherings, have helped foster a sense of belonging and mutual support among members.

6. Do you have any unresolved needs among your members that your association is working to address?

Yes, there are several unresolved needs that we are actively working to address. These include improving access to mental health support and resources, advocating for better workplace safety measures, and addressing issues related to staffing levels and workload. We are also focused on enhancing compensation and benefits for paramedics to ensure they are fairly compensated for their vital work. Additionally, we are exploring ways to better support paramedics in rural and remote areas, who often face unique challenges and may have limited access to resources and support. Through ongoing dialogue with our members and collaboration with stakeholders, we aim to address these needs and continuously improve the support we provide to our members.

Section 2: What is the role of the Paramedic Association in a region with public utility model, multiple unions, and self-regulating body of professionals? What is the role in complex governance models?

7. Can you describe the governance model in your province and how your association fits into it?

In our province, the governance model for paramedics involves a combination of public utility services, multiple unions, and a self-regulating body. The public utility model ensures that paramedic services are provided as an essential public service, funded, and managed by the government. Multiple unions represent the workforce, advocating for fair working conditions, wages, and benefits. The self-regulating body sets professional standards, oversees licensure, and ensures accountability through a code of ethics and disciplinary actions. Our association plays a

critical role by acting as a liaison between these entities, advocating for the interests of paramedics, providing professional development opportunities, and fostering a sense of community among members.

8. NSPPA is navigating relationships with multiple unions and regulatory bodies. How does your association balance these relationships while maintaining a strong voice for paramedics?

Balancing relationships with multiple unions and regulatory bodies requires effective communication, collaboration, and a commitment to the common goal of improving paramedic services. Our association actively engages with union representatives and regulatory bodies through regular meetings, joint committees, and open forums. We ensure that the voice of paramedics is heard by consistently advocating for their interests and addressing their concerns. By building strong, respectful relationships with all stakeholders, we create a united front that amplifies the impact of our advocacy efforts and ensures that the needs of paramedics are prioritized.

9. How do you handle situations where unions and regulatory bodies have conflicting priorities?

When unions and regulatory bodies have conflicting priorities, our association acts as a mediator, facilitating dialogue and seeking common ground. We bring together representatives from both sides to discuss the issues, identify shared goals, and explore mutually beneficial solutions. Our focus is always on the well-being of paramedics and the quality of care they provide to the community. By maintaining an open and transparent approach, we can often find compromises that satisfy both parties and promote a collaborative environment.

10. How do you ensure that the voices of all members are heard even those of underrepresented groups?

Ensuring that all members' voices are heard, including those of underrepresented groups, involves creating an inclusive and accessible environment. We actively solicit input from diverse groups through surveys, focus groups, and town hall meetings. Our association also has dedicated committees and representatives for various member segments, such as rural paramedics, women, and minority groups. By providing multiple channels for feedback and engagement, we ensure that the unique perspectives and concerns of all members are considered in our decision-making processes.

11. What strategies do you use to build trust and maintain positive relationships with all stakeholders?

Building trust and maintaining positive relationships with stakeholders requires consistent, transparent communication and a commitment to collaboration. We prioritize regular updates and open lines of communication through newsletters, social media, and face-to-face meetings. We actively seek input from stakeholders and involve them in decision-making processes. By demonstrating our dedication to the well-being of paramedics and the quality of care they provide, we build credibility and foster a sense of shared purpose. Additionally, we celebrate successes and acknowledge contributions, reinforcing the positive impact of our collaborative efforts.

12. What mistakes have you seen in governance negotiations and what lessons can others learn from them?

Common mistakes in governance negotiations include a lack of clear communication, failure to involve all relevant stakeholders, and an unwillingness to compromise. These issues can lead to

misunderstandings, conflicts, and delays in reaching agreements. To avoid these pitfalls, it's essential to prioritize transparency, inclusivity, and flexibility. Regularly updating all parties on progress, actively seeking input from diverse perspectives, and being open to compromise can help build trust and foster a collaborative environment. Another critical lesson is the importance of establishing a shared vision and common goals at the outset, ensuring that all stakeholders are working towards the same objectives.

Section 3: What best practices of paramedic associations emerge from research?

13. How do you measure the impact of your programs/services provided to your association members?

We measure the impact of our programs and services through a combination of qualitative and quantitative methods. Surveys and feedback forms are regularly distributed to members to gauge their satisfaction and gather insights on how our initiatives are perceived. We also track key performance indicators (KPIs) such as participation rates in training programs, the number of certifications awarded, and improvements in professional practices. Additionally, we assess the outcomes of our advocacy efforts by monitoring changes in policies, working conditions, and compensation. Regularly analyzing this data allows us to adjust our programs to better meet the evolving needs of our members.

14. What is an achievement or initiative that your association is most proud of and what is the reasoning behind it?

One of our proudest achievements is the implementation of a comprehensive mental health and wellness program. Recognizing the high levels of stress and burnout among paramedics, we launched this initiative to provide support and resources for mental well-being. The program includes peer support networks, counseling services, and stress management workshops. The

positive feedback and improved mental health outcomes reported by our members have demonstrated the program's significant impact. This initiative not only addresses a critical need but also fosters a culture of care and support within the paramedic community, ultimately enhancing the overall well-being of our members.

15. Have you experimented with any innovative approaches to support paramedics and what have you found to be successful?

Yes, we have experimented with several innovative approaches to support paramedics. One successful initiative is the use of virtual reality (VR) technology for training and simulation. By providing immersive, hands-on experiences, VR training allows paramedics to practice complex procedures and scenarios in a safe and controlled environment. This approach has improved skill retention and confidence among our members. Another innovation is the development of a mobile app that provides real-time access to protocols, guidelines, and support resources. This app has streamlined information access and enhanced on-the-job support, leading to increased efficiency and effectiveness in the field.

16. Have you found any unexpected strategies that resulted in great improvements and if so, what are they?

One unexpected strategy that resulted in great improvements was the introduction of mindfulness and resilience training for paramedics. Initially met with skepticism, these practices have proven to be highly beneficial in managing stress and preventing burnout. By incorporating mindfulness exercises and resilience-building techniques into our training programs, we have seen a noticeable improvement in our members' mental health and overall job satisfaction. This approach has also fostered a greater sense of self-awareness and emotional regulation, contributing to better decision-making and patient care.

17. What knowledge have you acquired from other industries or fellow paramedic associations that you now utilize within your regular operations?

We have gained valuable insights from industries such as aviation and emergency management, where rigorous training and protocol adherence are critical. Lessons learned from these fields have informed our approach to continuous professional development, emphasizing the importance of simulation-based training and regular skills assessments. Additionally, we have adopted best practices from fellow paramedic associations, such as peer support programs and collaborative advocacy efforts. By leveraging these external learnings, we have been able to enhance our operations and better support our members.

18. What would you describe as the most important lesson you have acquired from your association?

The most important lesson we have acquired is the value of adaptability and continuous improvement. The paramedic profession is constantly evolving, with new challenges and opportunities arising regularly. To effectively support our members, we must remain flexible and open to change. This means continuously seeking feedback, evaluating our programs, and being willing to adjust our strategies as needed. By fostering a culture of learning and innovation, we can ensure that our association remains responsive to the needs of our members and continues to advance the profession.

References

Cameron, C., & Batt, A. M. (2024, April 1). (PDF) *PAC Career Framework for paramedics*.

Canada Paramedic Professional Association.

https://www.researchgate.net/publication/380319818_PAC_Career_Framework_for_Paramedics]

EMS1. (2024, June 7) *Career progression: “A good paramedic should outgrow their protocols.”*

EMS1. <https://www.ems1.com/ems-trend-report/career-progression-a-good-paramedic-should-outgrow-their-protocols>.

Grosjean, J., Dufour, F., Benis, A., Januel, J.-M., Staccini, P., & Darmoni, S. J. (2024). Digital

Health Education for the Future: The SaNuRN Consortium’s Journey. *JMIR Medical Education*, 10(10), e53997–e53997. <https://doi.org/10.2196/53997>.

Hanna, H., Jordan, Z., Stern, C., & Pearce, J. (2021). Experiences of learning, development, and

preparedness for clinical practice among undergraduate paramedicine students, graduate/intern paramedics, and their preceptors: a qualitative systematic review. *JBIE Evidence Synthesis*, 19(9), 2052–2154. <https://doi.org/10.11124/JBIES-20-00297>.

Ilmaz, S., & Soyuk, S. (2022). Determination of Work–Life Balance in Healthcare Professionals:

Validity and Reliability of the New Work–Life Balance Scale. *Archives of Health Science and Research*, 9(2), 130–137. <https://doi.org/10.54614/ArcHealthSciRes.2022.22025>.

JIBC (2021, October 28). *How to become a paramedic in B.C.* ([https://www.jibc.ca/article/how-](https://www.jibc.ca/article/how-become-paramedic-bc)

[become-paramedic-bc](https://www.jibc.ca/article/how-become-paramedic-bc).

Kirkwood, S. (2024, September 17). *A real EMS career ladder for the Paramedic Profession*.

EMS1. <https://www.ems1.com/careers/articles/a-real-ems-career-ladder-for-the-paramedic-profession-dleoepiQvuSKL7NI/>.

Maples-Keller, J. L., Yasinski, C., Manjin, N., & Rothbaum, B. O. (2017). Virtual Reality-Enhanced Extinction of Phobias and Post-Traumatic Stress. *Neurotherapeutics*, 14(3),

554–563. <https://doi.org/10.1007/s13311-017-0534-y>.

Microsoft. (2025). *Copilot* <https://copilot.microsoft.com>

OpenAI. (2025). *ChatGPT* <https://openai.com>

Paramedic Careers. (2025, February 11). *Become a paramedic in Nova Scotia*.

<https://paramediccareers.ca/>

Tavares, W., Allana, A., Beaune, L., Weiss, D., & Blanchard, I. (2021). Principles to Guide the Future of Paramedicine in Canada. *Prehospital Emergency Care*, 26(5), 728–738.

<https://doi.org/10.1080/10903127.2021.1965680>.

Lifeline EMS (2024, September 29). *The EMT's guide to career longevity: Avoiding burnout and staying motivated*. Life. [https://lifeline-ems.com/the-emts-guide-to-career-longevity-](https://lifeline-ems.com/the-emts-guide-to-career-longevity-avoiding-burnout-and-staying-motivated/)

[avoiding-burnout-and-staying-motivated/](https://lifeline-ems.com/the-emts-guide-to-career-longevity-avoiding-burnout-and-staying-motivated/).

University of Toronto. (n.d.). *Career options after paramedicine*.

<https://www.utoronto.ca/aacc/career-options-after-paramedicine>

University of Toronto Scarborough. (n.d.). *Paramedicine at the University of Toronto*

Scarborough. <https://www.utsc.utoronto.ca/admissions/programs/paramedicine-joint-centennial>.