


An environmental scan of wellness initiatives and programs at Canadian academic emergency medicine programs: How far have we come?

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CLINICIANS CAPSULE

What is known about the topic?

It is unknown what crucial wellness activities and policies currently exists in Canadian academic emergency medicine programs.

What did this study ask?

What is the current state of wellness activities and policies in Canadian academic emergency medicine programs?

What did this study find?

This review found important work across the domains of formal wellness programs, scheduling, wellness measures, career transitions, and financial considerations.

Why does this study matter to clinicians?

Highlighting local strengths and weaknesses, this environmental scan can aid programs in determining areas to focus efforts.

food and debriefing were high and childcare, sleep rooms, and follow-up following critical incidents were low. Sabbaticals existed in the majority of centers. Roughly 50% of departments have gender equity program and annual retreats. Centers report programs for the initiation of leaves (82%), onboarding (64%), and reorientation (94%). Support of health benefits (76%) and pensions (76%) depended on type of appointment and relationship to the university. Fiscal transparency was reported in 53% of programs.

Conclusion: Wellness and burnout are critical issues for emergency medicine in Canada. This comprehensive review of wellness programs identifies areas of strength, but also allows identification of areas of improvement for future work. Individual centers can identify common options when developing or expanding their wellness programs.

RÉSUMÉ

Objectif: L'étude visait à atteindre un des grands objectifs du comité de mieux-être de l'ACMU, soit la réalisation d'une analyse environnementale des programmes de médecine d'urgence, dans les 17 écoles de médecine au Canada.

Méthode: Un instrument d'enquête composé de 89 questions a été envoyé aux chefs des services visés dans les universités ou aux responsables du mieux-être. L'auteur principal a par la suite vérifié les réponses afin de s'assurer que les sujets concernés avaient répondu, de la même manière, à toutes les questions.

Résultats: Si des programmes structurés de mieux-être étaient offerts à différents degrés dans les 17 universités, la plupart d'entre eux relevaient d'unités locales, de départements ou de divisions. Il y avait une grande diversité de postes de direction établis. Quant à la répartition du travail par postes, les façons de faire variaient énormément. Dans la pratique

ABSTRACT

Objectives: We sought to conduct a major objective of the [Canadian Association of Emergency Physicians](#) (CAEP) Wellness Committee, an environmental scan of the academic emergency medicine programs across the 17 Canadian medical schools.

Methods: An 89-question questionnaire was distributed to academic heads or wellness leads. The responses were verified by the lead author to ensure that the questions were answered completely and consistently.

Results: While formal wellness programs may exist in varying degrees across the 17 universities, most were found to exist only at local, divisional, or departmental levels. A broad variability of established leadership positions exists. Shift practices varied greatly. In day to day practice, availability for

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quotidienne, l'offre était bonne en ce qui concerne la nourriture et les séances de verbalisation, mais il en allait autrement pour les services de garde d'enfants, les chambres et le processus de suivi du personnel après un événement grave. Dans la majorité des centres, le personnel pouvait profiter de congés sabbatiques. Des programmes d'équité entre les sexes avaient été mis sur pied dans environ 50% des départements et des séances de réflexion étaient tenues annuellement. Les responsables des centres ont aussi fait état de programmes de départs en congé (82%), d'accueil et d'intégration (64%) ainsi que de réorientation (94%). Quant aux prestations de maladie (76%) et aux caisses de retraite (76%), elles dépendaient du type d'engagement et des liens avec

l'établissement universitaire. Enfin, une politique de transparence fiscale avait été établie dans 53% des programmes.

Conclusion: Le mieux-être et l'épuisement professionnel constituent des problèmes d'une importance cruciale en médecine d'urgence au Canada. L'enquête générale sur les programmes de mieux-être a permis de faire ressortir les bons points, mais aussi de mettre en lumière des éléments susceptibles d'amélioration à l'avenir. Chacun des centres pourra envisager différentes possibilités courantes lorsque viendra le temps d'élargir ou de mettre sur pied des programmes de mieux-être.

Keywords: Physician wellness, administration

INTRODUCTION

Fostering a culture of wellness in emergency medicine (EM) is a critical component to the delivery of high-quality clinical care. Wellness is an important protective factor that reduces physician burnout. In EM, where rates of burnout rank among the highest of all medical specialties, this is sorely needed.¹⁻³

Burnout is indiscriminate, impacting staff physicians, residents, medical students, patients, and hospitals.⁴⁻⁶ Specifically, burnout is associated with increased rates of depression, substance use, and suicidal ideation among physicians and residents.^{4,7-9} Doctors and residents with burnout have higher rates of error^{4,6-8,10} and lower patient satisfaction.⁶ Burnout and stress also impact the ability to perform challenging procedures.⁶ Finally, burnout increases physician turnover and absenteeism, lowers productivity, and increases desire to leave practice.^{6-8,11} At hospital and systems levels, these factors have important implications on the overall functioning of the workforce. A recent systematic review and meta-analysis indicates that both individual-focused and structural/organizational strategies can result in clinically meaningful reductions in burnout among physicians.¹²

The Canadian Association of Emergency Physicians (CAEP) Wellness Committee was formed in 2018 to advocate and promote personal and professional well-being in EM across Canada. In keeping with the Section mission surrounding physician and resident wellness, an environmental scan survey was conducted to establish a greater understanding of wellness activities and policies in Canadian academic EM programs. Academic sites were chosen as the initial area of focus as a proxy for

broader functioning and for the impact these programs have upon the wellness of future physicians. Highlighting local strengths and weaknesses, this environmental scan serves as a pulse check on the status of wellness activities in academic EM departments across Canada. In addition, this scan forms the foundation for planning future wellness initiatives to address gaps in wellness programming nationally.

METHODS

An 89-question questionnaire was developed with a focus on the following themes related to wellness in EM: formal wellness programs and leadership opportunities, shift scheduling, daily and long-term wellness measures, career transitions, and financial considerations (online Supplemental Appendix). The development and design of survey questions was based on consensus among wellness leads. The questionnaire used a combination of questions including yes/no and numerical responses as well as areas to provide free-text clarification. The questionnaire was reviewed and pilot tested among members of the CAEP Wellness Committee Executive, and revised for clarity. The final questionnaire was distributed by means of email to designated department/division heads and/or clinician wellness leads (or equivalent program directors) across 17 academic programs in Canada. Nonresponding programs were contacted by the lead author (R.L.) per ethics protocol to confirm correct contact information, and to discuss/confirm the most appropriate individual to provide information if open to participation. The lead author (R.L.) contacted each individual site as required to review data with each

wellness lead (or equivalent) in a series of telephone discussions where discrepancies existed, to ensure all questions were clearly answered. A variable response could be recorded by the responder. In academic centers where the survey was distributed to multiple hospitals due to size of program, answers that were discrepant (i.e., three hospitals said yes, two said no) a variable response was selected for the overall academic center. Data were entered into a Microsoft Excel® 2011 (Microsoft Corp., Redmond, WA) spreadsheet for analysis. Descriptive statistics including proportions, means, medians, and ranges were calculated. Data collection was complete.

RESULTS

While formal wellness programs may exist in varying degrees across the 17 universities, most initiatives were found to exist only at local divisional or departmental levels. Only 37% of programs currently track physician wellness in any manner, primarily at the division level. Only 12% of all programs track wellness regularly and in a formal manner. There is a broad variability of established leadership positions that have been reserved for Physician wellness, existing across many levels (Table 1). Please note, academic programs were said to be variable in a selection if either some but not all hospitals within an academic center had a program, or within a hospital, some but not all consultants had a benefit based on their academic status.

Shift work in EM affects provider well-being as it disrupts circadian rhythms.¹³ Shift characteristics were found to vary tremendously across the 17 academic institutions. While most programs tried to account for circadian rhythms in shift scheduling, 7 of 17 (41%) did not do so. Despite this, there were many initiatives that appeared to meet not only the individual needs of doctors, but tried various techniques, such as casino shifting, and varying shift lengths (Table 2).

In terms of specific factors and programming related to the promotion of daily wellness, areas that had the greatest consistency of availability were food (59%), and any form of debriefing process after critical incidents (41%) Access to childcare, sleep rooms, and formal policies to follow-up with staff following critical incidents was found to be the most limited (Table 3). In regard to long-term wellness initiatives, 10 of 17 (59%) provide some form of sabbatical or extended vacation program,

Table 1. Environmental survey responses regarding formal programs/leadership (N = 17)

	Yes	No	Variable*
Tracking of physician wellness:			
Overall %	6	71	23
University %	6	94	
Hospital %	12	88	
Department/division %	24	76	
Position in charge of physician wellness			
University %	47	53	
Hospital %	29	71	
Department/division %	41	59	
If yes, department/division position have protected time or stipend %	71	29	
Counselling availability:			
University %	59	41	
Hospital %	47	47	6
Mentorship:			
Do you have a mentorship program %	29	41	30
Miscellaneous:			
Does your hospital of employment provide any funding for physician wellness initiatives %	0	71	29

* Variable = either some but not all hospitals within an academic center had program, or within a hospital some but not all consultants had benefit based on academic status.

of which the majority are voluntary. Roughly 50% of departments reported having some form of gender equity program, and annual retreats (Table 4). Transitions are known to cause some the greatest periods of stress for physicians during their career.

In regard to easing transitions, many programs have developed programs for the initiation of leaves (82%), or onboarding (64%). There is a significant amount of

Table 2. Environmental survey responses regarding Shift Characteristics (N = 17)

	Yes	No	Variable
Shifts:			
Scheduled to follow circadian rhythm %	29	24	47
Flexible enough to accommodate individual needs %	59	12	29
Second-call policy %	65	35	
	Full	Casino	Variable
What is the structure of your night shifts %	59	29	12
	Mean	Min	Max
# per month is full-time	13.25	10	16
How many hours is the typical night shift	7.3	5	10

Table 3. Environmental survey responses regarding programs for daily wellness (N = 17)

	Yes	No	Variable
Exercise facility or discount:			
By hospital of employment %	29	59	12
By department/division %	18	18	64
Food:			
Free supplied by hospital of employment %	0	100	
By department/division %	12	82	6
Available for staff in your hospital 24 hours a day, 7 days a week, 365 days of the year %	59	41	
Childcare:			
By hospital of employment %	6	82	12
By department/division %	0	100	
Miscellaneous:			
Provide a location for physicians to breastfeed %	12	53	35
Provide sleep rooms for staff after call/night shifts %	18	53	29
Debriefing policy/process, after critical incidents %	41	24	35
Policy/process to follow-up with physician staff after critical incidents, to ensure their psychological well-being %	12	65	23

reorientation programming for clinicians returning from leave (94%) but almost all cite variable development of these programs (Table 5).

Table 4. Environmental survey responses regarding programs for long-term wellness (N = 17)

	Yes	No	Variable
Sabbatical / extended vacation:			
Sabbatical or extended vacation (>3 weeks) %	35	41	24
Is it voluntary (N = 6) %	83	17	
Is it paid (N = 6) %	50	50	
Gender equity:			
Does your department/division have a program to promote gender equity %	12	53	35
If yes, is it formal or informal (N = 2) %	100		
If yes, is it voluntary or mandatory (N = 2) %	50	50	
Other events:			
Do you have an annual retreat %	59	41	
	Mean	Min	Max
# of department/division wellness rounds/seminars over the past year	2	0	6
# of department/division social events for physician staff in the past year	3.5	1	8

Table 5. Environmental survey responses regarding programs for easing transition (N = 17)

	Yes	No	Variable
Department/division have a:			
Onboarding or orientation program for new consultants %	35	35	30
Transition to practice program for new consultants %	35	47	18
Reorientation for consultants returning from leave %	6	6	88
Assistance to families/spouses in locating housing/schools for new attending hires %	6	53	41
Department/division policies for:			
Leaves for consultants (health, parental, grieving etc.) %	41	18	41
Consultants returning from prolonged leave %	24	70	6
Consultants toward the end of their careers? (e.g., no night shifts after age 55) %	59	23	18
	Mean	Min	Max
What percentage of your staff have taken a personal or medical leave (excluding parental leave) in the past year? %	11.5	1	22

In regard to financial programs, many divisions cite variable support of health benefits (76%) and pensions (76%), with several depending on type of appointment and relationship to the university. There are some programs (53%) showing fiscal transparency (Table 6).

Table 6. Environmental survey responses regarding financial setup / benefits (N = 17)

	Yes	No	Variable
Health benefits provided by:			
University %	12	47	41
Hospital of employment %	6	94	
Department/division %	0	18	82
Pension provided by:			
University %	18	53	29
Hospital of employment %	12	88	
Department/division %	0	18	82
Department/division have financial:			
Program where physicians payment is known and published to the group %	24	47	29
Have to negotiation of salary when new consultant starts %	6	70	24

DISCUSSION

This report is the first comprehensive review of wellness activities and programs within Canadian academic EM centers. Significant activity was found across all of the evaluated domains, including formal wellness programs and leadership opportunities, shift scheduling, daily and long-term wellness measures, career transitions, and financial considerations. The most striking finding was the variability and inconsistency of wellness program availability between and within centers. This likely reflects the nature of the rapidly evolving landscape of wellness in EM. The specific example of low numbers of breastfeeding spaces and policies for returns after leaves is particularly concerning. This report would suggest that a comprehensive survey within divisions/departments may lead to some opportunities to declare a set of minimum standards for programs to decrease variability between sites or academic versus clinical appointment.

We note three tangible positive findings that were evident from the survey. First, counselling was available at the university or hospital level in a large percentage of academic sites. This is critically important given recent research showing a large bias against seeking help among doctors surveyed by the Canadian Medical Association.¹⁴ Furthermore, the College of Family Physicians and Royal College of Physicians and Surgeons of Canada's accreditation standards mandate that academic EM residency programs establish and maintain means for resident physicians to access counselling services for support with stress, burnout, or crisis.¹⁵⁻¹⁷ Despite this positive finding, there remains room for improvement as four academic centers did not have either hospital or university level support. Second, 77% of academic sites have some degree of departmental policies for physicians at the end of their careers. Given the large reliance on shift work, and the difficulties with adaptation to disruptions of circadian rhythm with aging, the progressive policies that most academic centers have adapted is encouraging. This is important as overall dissatisfaction has been shown to be a significant factor underlying intention to quit and early retirement.¹⁸⁻²⁰ Likourezos et al. reported that emergency physicians who were dissatisfied with professional autonomy were more likely to seek a new position or exit the profession.²⁰ Third, almost 60% of centers were found to hold an annual retreat. Although not much literature is available on the effect of retreats on wellness, they

do provide a departmental/divisional forum for reflection and future goal setting, which is intrinsically tied to professional fulfillment and wellness.

The Institute for Healthcare Improvement introduced the Triple Aim in 2008 as a framework that describes an approach to optimizing health system performance through: (1) improving the patient experience of care (including quality and satisfaction); (2) improving the health of populations; and (3) reducing the per capita cost of health care.²¹ Currently, many institutes now pursue the "quadruple aim" in 2014 with institutions advocating for health care team wellness as a crucial fourth aim.²² Our survey suggests that, if this fourth aim is included in the framework, there is currently a significant gap in top-down support/structures. In fact, it is difficult to even measure the metric of wellness. In our survey, most wellness programs were at the division/department level, not at the hospital or university level. It appears we have a long way to go before the quadruple aim can become a meaningful reality.

Our study had a 100% response rate, indicating a comprehensive assessment of Canadian academic EM programs has been achieved. The survey assessed a broad range of infrastructure consistent with career sustainability and wellness. As in prior academic scans in EM, the data obtained from this survey can be the springboard to encourage further initiatives.

There are several limitations to our study. Many wellness issues are managed at the hospital level, e.g., shifts. Due to the surveys being carried out at the medical schools and not the 60+ academic hospitals in Canada, we do not have a complete picture. The survey was based on the report of local physician champions, who are likely to be the most aware of programming and, thus, may not reflect the general awareness of all departmental/division members. In addition, wellness initiatives may stem from university, hospital, or departmental/divisional programs, and particularly so in programs with multiple sites (e.g., British Columbia). Although we delineated the source of programming, the responses best reflect the wellness champions' local situation, and it is possible that other hospitals or groups had differing initiatives that were not included here. Although we attempted to examine gender equity, this survey was not designed to examine diversity issues in general, which would be an opportunity for future research. Finally, we did not ask about the status of the local electronic medical record (EMR) system and supports for physicians in this regard.²³

EM programs can use the results of this study as a framework to examine what systems are currently in place, determine their relative weaknesses and strengths, and set goals and priorities for development. National collaboration between EM programs to develop more comprehensive wellness programs may speed our specialty toward the Quadruple Aim goal. Our results may aid in discussions with hospitals, universities, and stakeholders to help gain support for these initiatives. The authors believe that the high priority areas for wellness initiatives are as follows: the development of a structured practice of critical incident debriefing; the provision of places to either sleep surrounding night shifts and/or spaces to breastfeed on shift; and the creation of programs to assist physicians with transitions, such as onboarding or returning to work following leave.

CONCLUSION

This research provides a comprehensive review of wellness programs at academic EM sites across Canada. We highlight important work across the domains of formal wellness programs and leadership opportunities, shift scheduling, daily and long-term wellness measures, career transitions, and financial considerations. Highlighting local strengths and weaknesses, individual centers can review where they stand in comparison to survey findings, and plan and advocate for future growth of wellness programs. This may also form the foundation for establishing future wellness initiatives to address gaps in wellness programming nationally.

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