Podium: Doctors Speak Out
La parole aux médecins

Family medicine education in rural communities as a health service intervention supporting recruitment and retention of physicians

About 18% of Canadians live in rural, remote or isolated communities. Factors such as isolation from urban centres, poor weather conditions impeding access to remote locations, and lack of communication technology infrastructure have made it challenging for the Canadian health system to sustain equitable provision of health care services to these communities. The implications of this are evident when comparing the health of rural Canadians with that of their urban counterparts. There are higher incidences of poor nutrition, chronic disease, injury and death among rural populations than among urban populations. These health differences are even more pronounced for indigenous populations in rural and remote communities that have experienced more difficulty in accessing regular primary care services. In fact, a call to action was highlighted in the Truth and Reconciliation Commission report, stating that indigenous health will not improve without considerable system change, given the persistent inequity and inaction across the health system. Despite the federal government’s investment in public health and community care, rural and remote populations in Canada continue to experience poor health.

These health disparities are driven in part by the ongoing challenge of family physician shortages in rural and remote Canada. Although family physicians represent 50% to 55% of the physician workforce, only 14% work in rural and remote communities. Rural communities experience a number of challenges in recruiting and retaining physicians, such as concerns regarding isolation, limited resources and health facilities, and the lack of educational and employment opportunities for physicians’ families.

There are a number of policy measures that have been taken to address this challenge, including incentives for physicians to practise in rural and remote communities, increases in health human resources in the form of nurse practitioners and physician assistants, and investment in telehealth technology to facilitate communication in remote communities. One of the most prominent national and international strategies to address this health human resource challenge has been return-for-service funding and other financial incentives (bursaries, awards, scholarships, etc.). However, according to a recent review from Australia, financial incentives have not resulted in adequate progress in addressing the physician resource gap experienced in rural and remote communities. Thus, despite some progress being made in indicators of patient care and health outcomes, the closely linked challenge of recruiting and retaining rural family physicians to deliver high-quality care in these communities continue to persist.

Education as a health system intervention

Family physicians are a critical resource to rural and remote communities. In
practising full-scope, comprehensive family medicine, family physicians often provide needed care services in the absence of other specialists who would traditionally deliver such care (e.g., general surgery, general anesthesia). Family physicians adapt and evolve the family medicine competencies achieved while in residency training to meet community needs when they have established their clinical practices. Family medicine learners are provided comprehensive learning experiences to support the acquisition of generalist skills within the newly implemented Triple C Competency-based Curriculum. When learning is offered in rural environments, family medicine residents are able to learn and acquire generalist competencies within a rural context. Exposing learners to rural contexts early and often while in medical school and residency gives them a better understanding of the opportunities and realities of rural practice. Exposure to rural practice by rural clinical teachers positively influences recruitment and retention of family physicians in rural and remote Canada.

Currently, there are more than 160 rural-based family medicine clinical teaching sites, 75 of which focus primarily on the provision of longitudinal learning in rural and remote communities. However, further support for distributed medical education delivery is needed in order for rural medical education to serve as a comprehensive, coordinated health human resource strategy that can enhance the recruitment and retention of rural physicians.

Pong and Heng’s rural education “pipeline” (Fig. 1) is one model that describes how medical education can support the recruitment and retention of rural physicians by highlighting a mechanism for selecting, supporting, educating and producing physicians for practice in rural communities in Canada. The model demonstrates how the pipeline for producing a rural physician begins before entry into medical school and continues throughout the medical education continuum through to practice. It is supported by evidence documenting that students from rural backgrounds are more likely to practise in rural communities than those from urban backgrounds, and that increased exposure to rural communities during the course of medical training enhances the likelihood that students will practise in rural and remote contexts.

Pong and Heng identify 4 critical factors that can affect a physician’s decision to practise rural and remote medicine: rural upbringing, positive undergraduate rural exposure, targeted postgraduate exposure outside urban areas, and stated intent to practise or preference for family medicine or generalist practice. These factors, in combination with the pipeline approach to medical education delivery, provide a starting point for understanding how medical education programs must be structured to foster interest in practising rural family medicine. Some strategies for the delivery of comprehensive, coordinated rural education include targeted admission of students with rural backgrounds, integration of rural medicine into undergraduate and postgraduate curricula, efforts to ensure that rural learning experiences are positive for students, delineation of rural family medicine

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streams in postgraduate training, and increased co-
ordination of education with recruitment and reten-
tion efforts in rural communities. However, rural
and remote clinical teaching sites and teachers often
have limited resources to train and graduate family
physicians who are equipped with the skills needed
to meet community needs. Support and coordination
from higher organizational levels for implementation
of these strategies remains a challenge.

ADVANCING RURAL FAMILY
MEDICINE: THE CANADIAN
COLLABORATIVE TASKFORCE

Action to improve health care outcomes and access
to primary care in rural and remote communities
through a comprehensive, coordinated approach in
Canada is required. Recognizing this need, the
College of Family Physicians of Canada (CFPC)
and the Society of Rural Physicians of Canada
(SRPC) have come together to form Advancing
Rural Family Medicine: The Canadian Collabora-
tive Taskforce. The task force aims to advance the
recruitment and retention of family physicians in
rural, remote and isolated regions of Canada in
order to improve access and health care outcomes
for these populations. The task force’s mandate is
to develop a pan-Canadian rural education road
map that will describe how this goal can be
achieved. The road map will include a series of
recommendations to enhance undergraduate, post-
graduate and continuing medical education train-
ing, with the aim of increasing the proportion of
learners choosing rural family medicine practice as
a lifelong career. In developing this road map, the
task force will engage key stakeholders, including
rural communities and all levels of government, in
an effort to build the support and momentum
needed for the recommendations to be implemented
and put into action.

Composition of the task force. Members of the task
force were chosen jointly by the CFPC and the SRPC
from key stakeholder groups, including educators,
practitioners, CFPC education committee chairs,
deans, chairs of family medicine, experts in rural edu-
cation and key decision makers. The task force mem-
bers were also purposefully selected to represent a
mix of key perspectives needed to ensure the work
produced was rigorous and of high quality (Box 1).

Leaders in rural medical education and training
across Canada were selected and invited to join the
task force by the CFPC and the SRPC executives
(Box 2). Observers from the Canadian Medical
Association and Health Canada’s Council on Health
Workforce, and representatives from the Royal Col-
lege of Physicians and Surgeons of Canada were
also invited to provide their perspectives on the task
force’s work and to encourage and coordinate multi-
organization action on implementing the recommenda-
tions to enhance recruitment and retention of rural family physicians.

METHODS

As part of its work, the task force commissioned a
focused literature review, published in January
2016, entitled Review of Family Medicine Within Rural
and Remote Canada: Education, Practice, and Policy. This
review included both peer-reviewed and grey

Box 1. Perspectives selected for representation on the task
force

Representatives on the task force were selected jointly by the
SRPC and the CFPC. The types of individuals needed are
described below. The list was intended to help the executives of
both organizations consider the mix of perspectives needed
around that table in order for the work of the task force to be of
high quality and to be strategic in nature, with key individuals
of influence included.

- Faculty with extended history of rural family medicine,
  advocacy, education, practice, administration and policy
- Representative with extensive knowledge of rural medicine
  family medicine programs and administration
- Representative with extensive knowledge of family
  medicine and rural medicine within the university sector
  and of negotiating with governments for resource
  allocations
- Representative with knowledge of rural medical education
  research data
- Representative with distributed medical education
  experience and longitudinal clerkship experience at the
  medical school level
- Early career rural and remote practitioner involved in CPD
  and mentorship programs
- Representative with experience working at all levels of
  government: negotiations related to family practice in rural
  communities, physician education, and the physician work
  force, including knowledge of political issues and
  experience addressing the needs of rural educators and
  rural practitioners
- Representative with an understanding of the needs of
  Aboriginal communities and who is a strong advocate for
  teaching the domain in medical education
- Representative with an understanding of accreditation
  processes at the CFPC and other education policy issues
- Representatives chosen selectively from the Royal College
  of Physicians and Surgeons of Canada, the Collège des
  médecins du Québec, the Indigenous Physicians
  Association of Canada, the Medical Council of Canada, the
  Federation of Medical Regulatory Authorities of Canada
  and Health Canada’s Council on Health Workforce

CFPC = College of Family Physicians of Canada; CPD = continuing
professional development; SRPC = Society of Rural Physicians of Canada.
literature to examine the status of rural medical education, training and practice in relation to the health needs of rural and remote communities in Canada. The background paper provides a partial overview of the state of rural training and practice at the education and health systems levels and their effect on the family physician workforce in rural communities. The document also captures gaps where further action is required.

An environmental scan was also completed to deepen the task force’s understanding of the state of family medicine education and practice in rural and remote communities. This scan included 3 components: federal, provincial and territorial; rural medical education; and rural physician.

**Federal, provincial and territorial scan.** Interviews with more than 100 policy makers, government representatives, providers, educators, learners and community leaders were conducted to understand successes and challenges with recruitment and retention policy initiatives.

**Rural medical education scan.** Two surveys (Rural and Remote Undergraduate Medical Education Survey, Postgraduate Medical Education Survey) were administered to all 17 faculties of medicine to document rural education being delivered and to identify challenges, barriers and successes experi-

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**Box 2. Task force membership**

**Executive**
- Dr. C. Ruth Wilson (Co-chair)
- Dr. Trina Larsen Soles (Co-chair)
- Dr. Braam De Klerk
- Dr. Kathy Lawrence
- Dr. Francine Lemire
- Dr. John Soles

**Members**
- Dr. Stefan Grzybowski
- Dr. Darlene Kitty
- Dr. Jill Konkin
- Dr. Roger Strasser
- Rachel Munday (Society of Rural Physicians of Canada public member)
- Dr. Colin Newman
- Dr. Alain Papineau
- Dr. Tom Smith-Windsor
- Dr. Karl Stobbe
- Dr. Jim Rourke
- Dr. Jennifer Hall (ex officio, The College of Family Physicians of Canada)
- Mr. Paul Clarke (Council on Health Workforce, Health Canada observer)
- Dr. Ken Harris (Royal College of Physicians and Surgeons of Canada representative)
- Dr. Granger Avery (Canadian Medical Association observer)

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![Fig. 2. Social accountability framework: Pentagram Partners. Adapted from Boelen.](image-url)
enced across the faculties of medicine and their affiliated family medicine residency programs.

*Rural physician scan.* Seventeen interviews with practising rural family physicians were conducted to identify the factors critical to recruitment and retention from the perspectives of those engaged in delivering care in rural and remote contexts.

The gaps identified from the focused literature review and the results of the environmental scan will be used to develop the task force’s recommendations for action, highlighting the role of key partners in implementation and needed action.

**SOCIAL ACCOUNTABILITY FRAMEWORK: PENTAGRAM PARTNERS**

Although enhancing rural medical education and training is critical, it is only one part of the solution for addressing the health care challenges in rural and remote Canada. There is a concerted effort needed on the part of national and provincial stakeholders to support evidence-informed physician resource planning, to provide support for the medical education system and to collaborate in developing an integrated strategy to allocate resources for rural and remote health. Thus, support for rural medical education training requires coordinated efforts and collaboration among multistakeholder partners, including rural communities, policy makers, rural health professionals and physicians, universities and health education administrators (Fig. 2). These “Pentagram Partners” are critical players in upholding the social accountability mandate to provide high-quality care to those living in rural and remote Canada.

Collaboration and coordination among the partners in the social accountability framework will be critical to the work of the task force. Despite the many efforts made to advance rural health care delivery and the progress that has been seen in rural medical education programs, much more remains to be done. In developing the recommendations, the task force will make a concerted effort to engage these partners in identifying how to implement them. The recommendations will undergo a stakeholder consultation process to delineate each stakeholder’s role in achieving the goal of high-quality health care delivery in rural and remote communities in Canada.

Each of these partners has a key role to play in advancing recruitment and retention initiatives, and the work of the task force provides an opportunity to bring these partners together in a coordinated way. The task force will explore the roles of medical education, rural communities and policy makers in advancing the health of those living in rural and remote contexts. By understanding who is responsible and the actions each stakeholder needs to take to make the recommendations a reality, the task force can lay the groundwork for developing a coordinated, comprehensive health human resource strategy that considers the integral role of medical education as a health system intervention. For more information and additional resources, visit www.cfpc.ca/arfm.

**REFERENCES**

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