Priorities to Improve Care in Rural Alberta

The Issue
Alberta is experiencing an accelerating loss of rural physicians, nurses and other health professionals with resulting loss of services and reduction in capacity to train the next rural health workforce generation.

The Options
1. A commitment to rural health teams able to provide comprehensive healthcare including obstetric and surgical services.
2. A commitment to team-based practice models with staffing levels that promote durability and long-term retention of health professionals.
3. A commitment to educating the future rural healthcare workforce in rural Alberta, for rural Alberta.

The Recommendations
If we do nothing, rural healthcare access will continue to worsen, and rural education programs will shrink. We can:

- Take a small step and make small investments in the current model and expand rural education programs, stabilizing workforce and access in some areas while other areas will continue to experience chronic shortages.
- Act boldly with the goal of providing all rural Albertans with healthcare close to home, solving the problem for the long term, and becoming a world leader in rural healthcare sustainability.
Providing Albertans with a vibrant and effective rural health workforce is a long-term challenge, one that has become more difficult over the past several years, exacerbated by contentious contract negotiations and the COVID-19 pandemic which have impacted both recruitment and retention of physicians and other healthcare workers in rural communities. The sustainability of rural communities depends on access to high quality healthcare.

The availability of comprehensive healthcare is a major factor determining whether young people will live in a rural community, and whether the aging rural population can live out their lives in their home communities (4). Healthcare is a major consideration for business and industries. Businesses wish to attract, retain, and maintain a healthy workforce and it is essential that workers and their families have access to primary care, emergency care, and obstetrical care. The rural economy is dominated by health and safety sensitive industries including oil & gas, agriculture, forestry, and resource extraction (5). As healthcare services are lost, rural communities themselves become less sustainable (6).

Aaron Johnston MD, Kristy Penner MD, Gavin Parker MD, Darren Nichols MD, Amity E. Quinn PhD

The Issue

Alberta currently has a crisis in rural access to healthcare. Access to high-quality healthcare is essential for vibrant rural communities, rural citizens, and rural businesses. Over 650,000 Albertans live and work in rural Alberta (1). However, there are not enough physicians to serve our rural population compared to our urban population (2). Currently, over 75% of physician jobs posted on Doctor Jobs Alberta are located outside of Calgary and Edmonton (3).

Percent of Albertans living in rural communities compared to percent of family physicians working in rural communities

22% of Albertans live in rural and remote communities. That’s over 650,000 people.

However, less than 7% of family physicians work in rural and remote communities.

The availability of comprehensive healthcare is a major factor determining whether young people will live in a rural community, and whether the aging rural population can live out their lives in their home communities (4). Healthcare is a major consideration for business and industries. Businesses wish to attract, retain, and maintain a healthy workforce and it is essential that workers and their families have access to primary care, emergency care, and obstetrical care. The rural economy is dominated by health and safety sensitive industries including oil & gas, agriculture, forestry, and resource extraction (5). As healthcare services are lost, rural communities themselves become less sustainable (6).
Similar to their urban counterparts, rural Albertans should be able to expect that most of their healthcare can be delivered locally. This can be achieved because often rural physicians, nurses and other health professionals take on a broader scope of practice in comparison to urban colleagues, and provide a range of primary and secondary health services. Examples of these roles include emergency care, obstetrical care, hospital in-patient care, anesthesia, surgical care, long-term care, palliative care, home visits, teaching, leadership, and administrative work. Providing care close to home makes a difference for patients. In obstetrical care especially, as further distance from care has been shown to result in worse outcomes for mothers and babies (10). Communities can only provide safe care for mothers and newborns when comprehensive care is available from clinic, to hospital, to home care.

The medical schools in both Calgary and Edmonton have well-established rural programs at the medical school and residency (apprenticeship after medical school) levels. These programs are effective in training future rural physicians with approximately 70% of graduates joining the rural healthcare workforce (7). However, these programs are small and do not train enough physicians to meet the needs of rural Alberta. For example, rural residency programs in Alberta currently have 32 total spaces per year—far too few to meet the workforce needs of rural Alberta (8).

The provision of high-quality healthcare has been identified as a key challenge and priority by the Rural Municipalities of Alberta, and must be a high priority for all stakeholders in improving Alberta's healthcare system (9). The bottom line is that thriving Alberta communities with strong economies always have a backbone of comprehensive local healthcare.

This document presents three key areas of focus for stabilizing and sustaining a robust healthcare system in rural Alberta. Each focus area will list key enablers that policy makers can focus on, and examples of rural areas where elements of the focus are being done well and can be built upon or used as templates for other rural communities.

The Options

1. **Focus on building healthcare teams able to deliver the range of health services required by the community**

   Similar to their urban counterparts, rural Albertans should be able to expect that most of their healthcare can be delivered locally. This can be achieved because often rural physicians, nurses and other health professionals take on a broader scope of practice in comparison to urban colleagues, and provide a range of primary and secondary health services. Examples of these roles include emergency care, obstetrical care, hospital in-patient care, anesthesia, surgical care, long-term care, palliative care, home visits, teaching, leadership, and administrative work. Providing care close to home makes a difference for patients. In obstetrical care especially, as further distance from care has been shown to result in worse outcomes for mothers and babies (10). Communities can only provide safe care for mothers and newborns when comprehensive care is available from clinic, to hospital, to home care.

**Comprehensive care in High Level and Hinton**

These communities have citizens who can get care in clinic and in hospital, such as CT scans, surgery, homecare, and child delivery in their community. This is because they are supported by robust healthcare teams that include nurses, physiotherapists, occupational therapists, dentists, hygienists, medical imaging technicians, pharmacists, with groups of comprehensive generalist physicians and local and visiting specialists. The range of usual healthcare needs are supported locally, and citizens at all stages of life receive most of their healthcare close to home.
To deliver such comprehensive care, rural communities require adequate staffing of physicians, nurses, and other health professionals. As the nature of rural work is substantially different from urban healthcare, these staffing models cannot simply be scaled down versions of urban staffing. Robust rural healthcare staffing must consider the need in all these areas.

The loss of a single part of the team, such as anesthetic support, or experienced obstetrical or operating room nurse can lead to a cascade of service loss in rural communities. Once these services are lost, they are difficult to restore and often lost permanently. Recognizing that these programs are linked and that the loss of one service can cascade into the loss of many services highlights the importance of ensuring that stable and uninterrupted services are maintained.

**Key Enablers**

- Provide obstetrical and surgical services in rural communities. This improves outcomes for patients and makes rural hospitals sustainable.
- Provide elder care, homecare, palliative care, mental health, and addictions services locally in rural communities. Providing the services Albertans need close to home allows citizens to remain in their communities and supports rural businesses and economies.

*Example of how the loss of a single skilled health professional can impact the whole rural health system*
2. Focus on practice models that promote workforce durability and sustainability

Modern team-based healthcare requires physicians, nurses, pharmacists, and other health professionals to work together to deliver optimal healthcare for patients. The breadth of work in the rural setting means that teams of health professionals are critical in this setting for both workforce durability and sustainability. Similarly, removing the burden of running a business from physicians who own clinics is helpful as new graduates and recruits want to be physicians managing a healthcare team, not clinic owners managing a business.

Recruitment of health professionals to rural communities is difficult and costly. These professionals are in demand across Canada and are highly portable. Recruitment and retention efforts need to be proactive, focused on recruiting healthcare workers who will provide the services the community currently needs and will need in the future (11).

A 2021 systematic review of rural health workforce retention in 2021 showed that “policy makers can be confident that selecting health professional students based on rural background, encouraging distributed training based in rural and remote areas during their basic and subsequent training, and removing barriers to rural health professionals for further developing their skills (both professional and personal) and qualifications is associated with longer rural retention.” (12)

Healthcare professionals in many rural practice environments are consistently overworked - the right number of health care providers is more than the minimum number needed to just keep services open. Otherwise there is a high risk of burnout and high rates of turnover on the team. Healthcare workers who have space and time to live in the community, make the community home.

A stable workforce in Westlock and Peace River

Westlock and Peace River have robust physician workforces anchored by long-term generalist physicians, strong teaching programs, and new physicians from both Canadian and International medical schools committing to the community. Having an adequate number of physicians, not just the bare minimum needed to provide service means that physicians have the time to integrate into community life. This results in long term retention and improved recruitment as new physicians see the opportunity for both interesting work and life in the community.

Photo credit:https://peaceriver.ca/community-profile/
Durable practice models include some redundancy so that regular staff turnover does not precipitate local crisis and predictable workforce fluctuations due to parental leave, illness leave, and vacations can be covered locally. An adequate workforce supports the continuous provision of healthcare to rural communities while providing rural healthcare providers with space to integrate into the community, mitigating burnout and supporting long term retention. Thriving healthcare providers become invested in their town beyond work and are often dynamic additions to the fabric of a community, and find time in their professional lives for other key administrative and teaching roles.

New graduates are looking for practice opportunities in communities where they will be supported by colleagues, be able to provide broad scope care, and be involved in teaching. This means that the most difficult time to recruit is when a community is already understaffed and has lost services. Recruitment and retention of the healthcare workforce must be continuously supported, not just attended to in times of crisis.

Key Enablers

- Funding models that support a sufficient supply of health professionals who take on the broad scope practice required in rural settings. A sufficient supply of physicians, nurses and other health professionals means that normal turnover does not precipitate crisis.
- Commitment to team-based care with physicians, nurses and other health professionals working together at full scope. This means patients can access a range of care and improves recruitment of new graduates who train and want to work in teams.
Alberta has a long history of rural physician training with successful but small programs at both medical schools. In medical training, immersive rural placements and dedicated rural training streams are the best predictors of future rural practice. Education is the best form of long-term recruitment with 14 times more rural residency graduates eventually working in rural practice than urban-based graduates (7). The expansion of rural residency programs at both medical schools as well as focusing on premedical education of rural youth aspiring to healthcare careers is key to consistently training an adequate rural workforce.

Longitudinal Integrated Clerkships take medical education rural
The Longitudinal Integrated Clerkships (LIC) at the University of Calgary and the University of Alberta allow students to live and learn in rural communities across the province. In LIC communities, students participate in comprehensive patient care (e.g., obstetrics, emergency care, surgical work, and clinic care), becoming part of the medical team, the community and settling into rural life. Many of the students who train in rural Alberta for extended periods, later practice in rural Alberta, creating a pipeline for the next generation of rural physicians.

Physicians are only one part of the rural healthcare team. The longitudinal rural training model is well developed in medical education and must be expanded to include rural training for nurses, nurse practitioners, and other health professions. The University of Calgary has recently announced a rural training stream for nursing in Wainwright, Alberta (13), a positive step that must be expanded. Ideally rural trainees from all health professions would train alongside one another to prepare for the multi-disciplinary rural healthcare teams they will join.

A current barrier to increasing rural training in Alberta is a critical lack of rural physicians who teach students inside of their medical practices (i.e., preceptors). Providing training to physicians to become teachers as well as providing funding that offsets the costs of teaching is critical to support the growth of rural training programs. To train rural healthcare workers we need to invest in rural training, pay people in rural areas to train healthcare workers, and actively address the barriers to increasing educational capacity.

Percent of graduates working in rural practice by type of education program

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<tr>
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<th>Percent of graduates working in rural practice</th>
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<tbody>
<tr>
<td>Rural residency graduates</td>
<td>70%</td>
</tr>
<tr>
<td>Urban-based graduates</td>
<td>5%</td>
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Challenges in access to rural healthcare and the lack of rural preceptors are two sides of the same coin. The rural physicians who care for rural patients are the same people who teach the next generation of rural physicians. When communities become understaffed, increased clinical demands limit the ability of local physicians to engage in teaching, and when communities lose services like obstetrics, long term training placements may no longer be possible as students can no longer access required experiences. When communities lose education capacity, they also lose their most ready supply of recruits, further exacerbating workforce shortages.

Rural education leadership is a critical bottleneck. Currently neither medical school has any full-time rural faculty members. This leaves rural medical education dependent on the goodwill of rural clinical faculty who often provide this leadership in unpaid, informal ways in addition to their busy clinical jobs. Ultimately, rural healthcare providers should not only teach, but be significantly involved in the development of rural health professions education, as funded faculty members with positions of influence and responsibility.

An additional barrier is the insufficient physical space for rural education. Students need clinic rooms, call rooms, desk space, and meeting space. Access to simple clinic space is an increasing limitation for rural teaching. Student doctors need rooms to see patients in. As clinics expand to increase care spaces for new physicians, there is no funding for building teaching spaces. Even our newest hospitals (e.g., Grande Prairie) have limited space for the educational administrators who support our rural doctors-in-training.

Supporting physician and health professions training in rural Alberta is a key investment closely tied to recruitment, retention and workforce stabilization. Training also has positive economic impact for host communities and is a key focus for stabilizing rural healthcare in Alberta (14,15,16).

Key Enablers

- Address barriers to increasing rural teaching capacity including the lack of rural teaching faculty, rural educational leadership and teaching space in rural clinics and hospitals. This will allow development of capacity in already successful programs.
- Focus on longer term rural placements and pipelines for rural training. Specific pipelines towards rural health careers and longer rural placements are effective in increasing the proportion of graduates who choose rural careers.
- Expand rural training opportunities for non-physician health professionals. Rural communities need healthcare teams. Training opportunities for all members of the healthcare team are important to stabilize the rural health workforce.
The Recommendations

Rural Alberta has a healthcare access crisis with inconsistent staffing and resources across the province. Healthcare is an absolute requirement for vibrant rural communities, rural citizens, and rural businesses. A focus on developing broad scope practice models, sustainable workforce planning and long-term stabilization through rurally based education of the rural Alberta workforce is key in resolving the current crisis and creating a rural health system that is robust over the long term. The government recently announced one million dollars of funding to study new models of rural education. This focus on rural education is welcome and will hopefully be followed by bold action to address patient access through rural health teams and long-term stabilization of the rural workforce. The time to address the rural healthcare crisis in now – we can either stay the same, take a small step, or be bold.

Be Bold! Provide all rural Albertans with healthcare close to home. This can solve the problem for the long term, and we can become a world leader in rural health workforce.

Take a small step! Invest in the current model and expand rural education programs. This will stabilize workforce and access in some areas, while other areas will continue to experience chronic shortages.

Stay the same! Rural healthcare access will continue to worsen and rural education programs will shrink.

Recommendations to improve healthcare in rural Alberta
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Date of Publication
March 2023

Editorial Practice Statement
This issue brief was assessed by at least three reviewers external to the authorial team.

Funding Sources
This series is supported by an unrestricted anonymous donation to the O’Brien Institute for Public Health.

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