

THE COLLEGE OF  
FAMILY PHYSICIANS  
OF CANADA



LE COLLÈGE DES  
MÉDECINS DE FAMILLE  
DU CANADA



Advancing Rural Family Medicine  
The Canadian Collaborative Taskforce  
Faire avancer la médecine familiale rurale  
Le Groupe de travail collaboratif canadien



Society of Rural Physicians of Canada  
Société de la Médecine Rurale du Canada

---

# Advancing Rural Family Medicine: The Canadian Collaborative Taskforce

## Selected Literature Listing

February 2017

## Introduction

Since the work of Advancing Rural Family Medicine: The Canadian Collaborative Taskforce (Taskforce) began in December 2014, the Taskforce has accumulated a fairly large literature listing, consisting of grey literature, peer-reviewed articles, and unpublished work, that was used to inform the development of the **Rural Road Map for Action: Directions**. References were compiled based on an environmental scan, including online surveys, that was conducted from 2015 to 2016 with approximately 300 leaders from medical education, rural training programs, government, and rural communities as well as rural practitioners who have been involved in rural education and recruitment and retention initiatives. The selected references were used alongside the focused literature review that was conducted at the very outset of the Taskforce's work and used in its [Background Paper](#).

A selected listing of literature is provided here, categorized according to the four directions shared in the Rural Road Map released on February 22, 2017.

**Table 1: Summary of the four directions of the Rural Road Map, with page listings**

Directions	Page
<b>One: Social accountability</b> Reinforce the social accountability mandate of medical schools and residency programs to address health care needs of rural and Indigenous communities  <i>Key topics: rural admissions process, rural medical education, Indigenous curriculum, generalism, social accountability, rural workforce pipeline, faculty development</i>	2
<b>Two: Policy interventions</b> Implement policy interventions that align medical education with workforce planning  <i>Key topics: recruitment and retention, health workforce, distributed medical education</i>	4
<b>Three: Rural practice models</b> Establish practice models that provide rural communities with timely access to high-quality health care  <i>Key topics: networks of care, distance technology, community engagement, mentorship, scopes of practice</i>	7
<b>Four: National rural research</b> Institute a national rural research agenda to support rural workforce planning aimed at improving access to patient-centred and quality-focused care in rural Canada  <i>Key topics: evaluation of rural health care outcomes, evaluation of rural medical education</i>	9

A full literature listing is available by contacting: [academicfm@cfpc.ca](mailto:academicfm@cfpc.ca).

## Selected Listing for Direction One: Social Accountability

Alberta Rural Physician Action Plan. Clinical resources and teaching tools for Canada's rural physicians re tool for physician preceptor development. Practical Doc website. <http://www.practicaldoc.ca>.

Association of Faculties of Medicine of Canada. *The Future of Medical Education in Canada (FMEC): A Collective Vision for MD Education 2010-2015. Five Years of Innovations at Canadian Medical Schools*. Ottawa, Ontario: Association of Faculties of Medicine of Canada; 2016.

Bates J, Casiro O, Fleming B, Frinton V, Towle A, Snadden D. Expanding undergraduate medical education in British Columbia: A distributed campus model. Expanded Version. *CMAJ*. 2005;173(6) Online1-7.

Blouin D, Van Melle E. *Faculty Development Needs of Ontario Rural Physician Preceptors: Final Report*. Kingston, ON: Queen's University; 2006.

Boelen C, Pearson D, Kaufman A, Rourke J, Woollard R, Marsh DC, et al. Producing a socially accountable medical school: AMEE Guide No. 109. *Med Teach*. 2016;38:1078-1091.

Brascoupé S, Waters C. Cultural Safety – Exploring the Applicability of the Concept of Cultural Safety to Aboriginal Health and Community Wellness. *J Aborig Health*. 2009;5:6-41.

College of Family Physicians of Canada. *Family Medicine Longitudinal Survey: T2 (Exit) 2015 results. Aggregate findings across 15 family medicine residency programs*. Mississauga, ON: College of Family Physicians of Canada; 2015.

Committee on Accreditation of Canadian Medical Schools. *CACMS Standards and Elements: Standards for Accreditation of Medical Education Programs Leading to the M.D. Degree*. Ottawa, ON: Committee on Accreditation of Canadian Medical Schools; 2015.

Couper I, Worley PS, Strasser R. Rural longitudinal integrated clerkships: lessons from two programs on different continents. *Rural Remote Health*. 2011;11:1665.

Fonseca A, Macdonald A, Dandy E, Valenti, P. The state of sustainability reporting at Canadian universities. *Int J Sustain High Educ*. 2011;12:22-40.

Gingerich A, Mader H, Payne GW. Problem-based learning tutors within medical curricula: an interprofessional analysis. *J Interprof Care*. 2012;26:69-70.

Gorsche R, Woloschuk W. Rural physicians' skills enrichment program: A cohort control study of retention in Alberta. *Aust J Rural Health*. 2012;20:254-258.

Hogenbirk JC, Timony PE, French MG, Strasser R, Pong RW, Cervin C, et al. Milestones on the social accountability journey: Family medicine practice locations of Northern Ontario School of Medicine graduates. *Can Fam Physician*. 2016;62:e138-45.

Indigenous Physicians Association of Canada and Association of Faculties of Medicine of Canada. *First Nations, Inuit, Métis Health. Core Competencies. A Curriculum Framework for Undergraduate Medical Education*. Ottawa, ON: Indigenous Physicians Association of Canada and Association of Faculties of Medicine of Canada; 2008.

Myhre D, Bajaj S, Woloschuk W. Practice locations of longitudinal integrated clerkship graduates: a matched-cohort study. *Can J Rural Med*. 2016;21:13-17.

National Aboriginal Health Organization. *Cultural Competency and Safety: A Guide for Health Care Administrators, Providers and Educators*. Ottawa, ON: National Aboriginal Health Organization; 2008.

Pong RW. *Post-M.D. Training in Family Medicine in Canada: Continuity and Change Over a 15-Year Period*. Ottawa, ON: Canadian Post-M.D. Education Registry; 2012.

Royal College of Physicians and Surgeons of Canada. *Report of the Generalism and Generalist Task Force: Education Strategy, Innovations, and Development Unit*. Ottawa, ON: Royal College of Physicians and Surgeons of Canada; 2013.

Royal College of Physicians and Surgeons of Canada. *Competence by Design: Reshaping Canadian Medical Education*. Ottawa, ON: Royal College of Physicians and Surgeons of Canada; 2014.

Royal College of Physician and Surgeons of Canada. *Generalism in Postgraduate Medical Training. A Discussion Paper*. Ottawa, ON: Royal College of Physician and Surgeons of Canada; 2016.

Snadden D. Using rural and remote settings in the undergraduate medical curriculum: Guide supplement 47.1 - viewpoint. *Med Teach*. 2011;33: 765-767.

Strasser R, Hogenbirk JC, Minore B, Marsh DC, Berry S, McCready WG, et al. Transforming health professional education through social accountability: Canada's Northern Ontario School of Medicine. *Med Teach*. 2013;35:490-496.

Strasser R. Social accountability and the supply of physicians for remote rural Canada. *CMAJ*. 2015;187:791-792. doi:10.1503/cmaj.150266.

Strasser R. Delivery on social accountability: Canada's Northern Ontario School of Medicine. *Asia Pacific Scholar*. 2016;1:3-9.

Truth and Reconciliation Commission of Canada. *Honouring the Truth, Reconciling for the Future – Summary of the Final Report of the Truth and Reconciliation Commission of Canada*. Ottawa, ON: Truth and Reconciliation Commission of Canada; 2015.

Wong, RY, Chen L, Dhadwal G, Fok MC, Harder K, Huynh H, et al. Twelve tips for teaching in a provincially distributed medical education program. *Med Teach*. 2012;34:116-122.

Woollard R, Buchman S, Meili R, Strasser R, Alexander I, Goel R. Social accountability at the meso level: Into the community [Commentary]. *Can Fam Physician*. 2016;62:538-540.

### [Selected Listing for Direction Two: Policy Interventions](#)

Australian College of Rural and Remote Medicine. *Cairns Consensus Statement on Rural Generalist Medicine: Improved health for rural communities through accessible, high quality healthcare*. Brisbane, Australia: Australian College of Rural and Remote Medicine; 2014.

Bates J, Lovato C, Buller-Taylor T. "Mind the gap": Seven key issues in aligning medical education and healthcare policy. *Healthc Policy*. 2008;4:46-58.

Bilodeau H, Leduc N, van Schendel N. *Analyse des facteurs d'attraction, d'installation et de maintien de la pratique médicale dans les régions éloignées du Québec: Rapport abrégé*. Montréal, QC: Université de Montréal; 2006.

Collaboration of physicians, community, health authorities needed for successful rural recruitment and retention. Rural Coordination Centre of BC website. <http://enews.rccbc.ca/2013/07/collaboration-of-physicians-community-health-authorities-needed-for-successful-rural-recruitment-and-retention>.

Council of Ontario Universities. *Towards a Comprehensive Accountability Framework for the Funding and Delivery of Medical Education in Ontario*. Toronto, ON: Council of Ontario Universities; 2011.

Curran V, Bornstein S, Jong M, Fleet L. *Strengthening the Medical Workforce in Rural Canada: The Roles of Rural/Northern Medical Education – Component 1: Rural Medical Education: A Review of the Literature*. St. John's, NL: Memorial University of Newfoundland; 2004.

Directorate-General for Health and Food Safety. *Recruitment and Retention on the Health Workforce in Europe. Report on evidence of effective measures to recruit and retain health professionals in three non-EU countries (Australia, Brazil, South-Africa)*. Brussels, Belgium: Directorate-General for Health and Food Safety, European Commission; 2014.

Durey A, Haigh M, Katzenellenbogen JM. What role can the rural pipeline play in the recruitment and retention of rural allied health professionals? *Rural Remote Health*. 2015;15: e3438. [http://www.rrh.org.au/publishedarticles/article\\_print\\_3438.pdf](http://www.rrh.org.au/publishedarticles/article_print_3438.pdf).

Federal/Provincial/Territorial Advisory Committee on Health Delivery and Human Resources. *A Framework for Collaborative Pan-Canadian Health Human Resources Planning*. Ottawa, Ontario: Federal/Provincial/Territorial Advisory Committee on Health Delivery and Human Resources, Health Canada; September 2005, Revised March 2007.

Fournier MA, Contandriopoulos AP, Diene CP, Trottier LH. *Mesures d'attraction et de rétention des médecins en région éloignée: politiques adoptées dans les provinces canadiennes et dans certains pays et leçons à tirer pour le Québec*. Montréal, QC: Université de Montréal; 2004.

Health Canada. *Unleashing Innovation: Excellent Healthcare for Canada – Report of the Advisory Plan on Healthcare Innovation*. Ottawa, Ontario: Health Canada; 2015.

Health Canada. *Health Care Policy Contribution Program: 2011-2013 Annual Report*. Ottawa, ON: Health Canada; 2014.

Health Workforce Australia. *National Health Workforce Innovation and Reform Strategic Framework for Action 2011–2015*. Adelaide, Australia: Health Workforce Australia; 2011.

Health Workforce Australia. *National Rural and Remote Health Workforce Innovation and Reform Strategy*. Adelaide, Australia: Health Workforce Australia; 2013.

Institute of Medicine. *Quality Through Collaboration: The Future of Rural Health*. Washington, DC: Institute of Medicine; 2005.

Joint Standing Committee on Rural Issues. *Rural Programs: A Guide to the Rural Physician Programs in British Columbia*. Victoria, BC: Ministry of Health, Government of British Columbia, Doctors of BC; 2016.

Liskowich S, Walker K, Beatty N, Kapusta P, McKay S, Ramsden VR. Rural family medicine training site: proposed framework. *Can Fam Physician*. 2015;61:e324-330.

Mason J. *Review of Australian Government Health Workforce Programs*. Canberra, Australia: Australian Government Department of Health; 2013.

Mathews M, Lockhart AJ. Impact of alternate payment plans on the practice patterns of fee-for-service physicians in the Northwest Territories. *Can J Rural Med.* 2003;8:89-93.

Ministère de la Santé et des Services Sociaux. Rapport d'activités 2011-2016/ Prime d'éloignement pour les externes et les résidents en formation dans les territoires insuffisamment pourvus de professionnels de la santé au Québec. Rapport remis à Santé Canada: Direction générale de la politique stratégique; 2016.

Ministerial Advisory Council on Rural Health. *Rural Health in Rural Hands: Strategic Directions for Rural, Remote, Northern and Aboriginal Communities.* Ministerial Advisory Council on Rural Health. Ottawa, ON; 2002.

Ministerial Task Group on Postgraduate Training and Education. *A review of how the training of the New Zealand health workforce is planned and funded: a proposal for a reconfiguration of the Clinical Training Agency.* Wellington, New Zealand: Ministry of Health; 2009.

Ministry of Health and Long-Term Care. *Return of Service Program Analysis. Draft Report.* Toronto, ON: Ministry of Health and Long-Term Care, Government of Ontario; 2015.

Nene G, Johnson B, Burkhart-Kriesel C, Cantrell R, Narjes C, Vogt R. Community Recruitment and Retention of New Residents: A Study Using a Market Assessment Process. *Online J Rural Research Policy.* 2009;4.

Pong RW, Heng D. *The Link Between Rural Medical Education and Rural Medical Practice Location: Literature Review and Synthesis.* Sudbury, ON: Centre for Rural and Northern Health Research, Laurentian University. Submitted to Physician Planning Unit, Ontario Ministry of Health and Long-Term Care; 2005.

Rural Health Standing Committee. *Standing Council on Health. National Strategic Framework for Rural and Remote Health.* Canberra: Australian Government Department of Health; 2012.

Snadden D, Bates J, UBC Associate Deans of MD Undergraduate Education. Expanding undergraduate medical education in British Columbia: a distributed campus model. *CMAJ.* 2005;173:589-590.

Suter E, Misfeldt R, Mallinson S, Wilhelm A, Boakye O, Marchildon G, et al. *Comparative Review of the Policy Landscape of Team-based Primary Health Care Service Delivery in Western Canada.* Alberta Health Services and Canadian Institutes of Health Research. 2014.

Toomey P, Hanlon N, Bates J, Poole G, Lovato, CY (2011). Exploring the role of social capital in supporting a regional medical education campus. *Rural Remote Health*. 2011;11: e1774.

Toomey P, Lovato CY, Hanlon N, Poole G, Bates J. Impact of a regional distributed medical education program on an underserved community: perceptions of community leaders. *Acad Med*. 2013;88:811-818.

Western and Northern Health Human Resources Planning Forum. *Review of Rural and Remote Recruitment and Retention Initiatives for Health Professional: Final Report*. Vancouver, BC: Western and Northern Health Human Resources Planning Forum; 2016.

World Health Organization. *Increasing access to health workers in remote and rural areas through improved retention: Global Policy Recommendations*. Geneva, Switzerland: World Health Organization; 2010.

### [Selected Listing for Direction Three: Rural Practice Models](#)

Canadian Forces Health Services. *Maintenance of Clinical Readiness Programme Manual. Issued under the Authority of the Commander*. Ottawa, ON: Canadian Forces Health Services; 2016.

Communities play key role in physician recruitment, retention – Fort St. James case study. Rural Coordination Centre of BC website.  
<http://enews.rccbc.ca/2013/07/communities-play-key-role-in-physician-recruitment-retention-fort-st-james-case-study>.

Ellaway RH, O’Gorman L, Strasser R, Marsh DC, Graves L, Fink P, et al (2016) A critical hybrid realist-outcomes systematic review of relationships between medical education programmes and communities: BEME Guide No. 35. *Med Teach*. 2016;38:229-245. doi: 10.3109/0142159X.2015.1112894.

Farmer J, Nimegeer A. Community participation to design rural primary healthcare services. *BMC Health Serv Res*. 2014;14:e130.

First Nations and Inuit Health Branch. *Recognizing Strengths – Building for the Future. Primary Health Care Service Delivery Models in Remote and Isolated First Nation Communities. Final Report and Recommendations*. Ottawa, ON: First Nations and Inuit Health Branch, Health Canada; 2012.

Grzybowski S, Kornelsen J. *The Sustaining of Small Rural Surgical Services in British Columbia. A Report Commissioned by the Joint Standing Committee on Rural Issues*. Vancouver, BC: Centre for Rural Health Research; 2013.



Hogenbirk JC, Robinson DR, Hill ME, Pong RW, Minore B, Adams K, et al. The economic contribution of the Northern Ontario School of Medicine to communities participating in distributed medical education. *Can J Rural Med.* 2015;20:25-32.

Johnston S. You and RCCbc: How rural communities can support physician recruitment and improve local health care. Paper presented at the Electoral Area Directors Forum at the 2013 Union of BC Municipalities Convention. September 2013; Vancouver, BC.

Lau, F, Bates J. A review of e-learning practices for undergraduate medical education. *J Med Syst.* 2004;28;71-87.

Kornelsen J, McCartney K. *System Enablers of Distributed Maternity Care for Aboriginal Communities in British Columbia: Findings from a Realist Review.* Vancouver, BC: Applied Policy Research Unit, Centre for Rural Health Research; 2015.

Morris R. *A Capacity Building Strategy for Rural-Remote and Indigenous Local Government.* Broadway, Australia: Australian Centre of Excellence for Local Government; 2011.

Nelson S, Turnbull J, Bainbridge L, Caulfield T, Hudon G, Kendel D, et al. *Optimizing Scopes of Practice: New Models for a New Health Care System.* Ottawa, ON: Canadian Academy of Health Sciences; 2014.

Overhill K. *Support programs for rural physicians, including mentorship.* Vancouver, BC: Rural Coordination Centre of BC; 2014.

Pioneering telehealth for BC's rural and remote First Nations communities. Rural Coordination Centre of BC website. <http://enews.rccbc.ca/2013/06/pioneering-telehealth-for-bcs-rural-and-remote-first-nations-communities>.

Sarrami-Foroushani P, Travaglia J, Debono D, Braithwaite J. Key concepts in consumer and community engagement: a scoping meta-review. *BMC Health Serv Res.* 2014;14:e250.

Strasser R, Worley P, Cristobal F, Marsh DC, Berry S, Strasser S, et al. Putting communities in the driver's seat: the realities of community-engaged medical education. *Acad Med.* 2015;90:1466-1470.

World Organisation of Family Doctors. *Rural Medical Education Guidebook.* Bangkok, Thailand: World Organisation of Family Doctors; 2014.

Yeates L. *Patients at the Centre: Sustaining Rural Maternity – It's All About the Surgery!* Vancouver, BC: Perinatal Services BC, Western Provinces Collaborative on Sustainable Rural Maternity and Surgical Services; 2016.

### Selected Listing for Direction Four: National Rural Research

Canadian Institute for Health Information. *A Performance Measurement Framework for the Canadian Health System*. Ottawa, ON: Canadian Institute for Health Information; 2013.

Centre for Rural and Northern Health Research. *From Applicants to Graduates and Beyond – a Multi-Year, Integrated Research Program on Medical Career Life Cycle. Phase II Final Report*. Sudbury, ON: Centre for Rural and Northern Health Research; 2015.

Evaluation Studies Unit. *Long-Term Outcomes Evaluation Report: UBC's Contribution to Physician Supply in the Province 2012–2013*. Vancouver, BC: University of British Columbia Faculty of Medicine; 2013.

Heng D, Pong RW, Pitblado JR, Lagacé C, Desmeules M. Sources of data for rural health research: development of an inventory of Canadian databases. *J Agric Saf Health*. 2005;11:219-227.

Liman Y, Gunasingam A, Olatunbosun T, Lausher H, Jarvis-Selinger S. *Program Evaluation of the Interprofessional Rural Program of BC (IRPbc). Final Report*. Vancouver, BC: University of British Columbia; 2007.

Loane MA, Bloomer SE, Corbett R, Eedy DJ, Evans C, Hicks N, et al. A randomized controlled trial assessing the health economics of realtime teledermatology compared with conventional care: an urban versus rural perspective. *J Telemed Telecare*. 2001;7:108-118.

Lovato C, Bates J, Hanlon N, Snadden D. Evaluating distributed medical education: What are the community's expectations. *Med Educ*. 2009;43:457-461.

Mathews M, Lynch A. Increasing research skills in rural health boards: An evaluation of a training program from Western Newfoundland. *Can J Program Eval*. 2007;22:41-56.

McLaughlin K, Bates J, Konkin J, Woloschuk W, Suddards CA, Regehr G. (2011). A comparison of performance evaluations of students on longitudinal integrated clerkships and rotation-based clerkships. *Acad Med*. 2011;86:S25-S29.

McSweeney K. Data on FM Residents and Rotations. Academic Year 2014-2015. University of Calgary. 2015.

Ministère de la Santé et des Services Sociaux. *Évaluation des mesures incitatives non négociées financées par le Fonds de médecin en région (FMR) et du Programme de bourses d'études en médecine*. Présentation des principaux résultats. Direction générale adjointe de l'évaluation et de la qualité. Rencontre du Comité interregional 28 janvier 2016.

Peterson LN, Eva KW, Rusticus SA, Lovato CY. The readiness for clerkship survey: can self-assessment data be used to evaluate program effectiveness? *Acad Med*. 2012;87:1355-1360.

Physician Recruitment Agency of Saskatchewan. *Medical Trainee Survey. Wave Three*. Inshtrix Research Inc. Saskatoon, SK: Physician Recruitment Agency of Saskatchewan; March 2014.

Physician Recruitment Agency of Saskatchewan. *Settlement Survey 2014 – Wave Three*. Inshtrix Research Inc. Saskatoon, SK: Physician Recruitment Agency of Saskatchewan; November 2014.

RPAP Health Workforce for Alberta. *2013-2014 Key Performance Indicators Report*. Edmonton, AB: RPAP Health Workforce for Alberta; 2015.

Rural Education Action Plan Program. Data on Utilization of Rural Education Programs. Vancouver, BC: Rural Coordination Centre of BC; 2015.

Tomblin Murphy J, Maddalena V. *Establishing a Minimum Data Set to Support the Advancement of NAHO's Aboriginal Health Human Resource Initiative: Next Steps*. Ottawa, ON: National Aboriginal Health Organization; 2007.

Torti J et al. *Alberta Family Medicine Graduates Survey (2006-2011). Phase 1: Questionnaire Survey*. Edmonton, AB: University of Alberta; 2015.

UBC Rural Continuing Professional Development Program. *Rural Emergency Medicine Needs Assessment. 2014-2015. Final Report*. Vancouver, BC: University of British Columbia Faculty of Medicine; 2015.

University of Manitoba Faculty of Medicine. *Towards the Development of a Framework for Research Engagement with First nations, Metis and Inuit Communities. Summary Report*. Winnipeg, MB: University of Manitoba Faculty of Medicine; 2013.