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Citation
Wilson, Michael G, John N Lavis, and Moriah E Ellen. 2015. “Supporting chronic pain management across provincial and territorial health systems in Canada: Findings from two stakeholder dialogues.” Pain Research & Management : The Journal of the Canadian Pain Society 20 (5): 269-279.

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Supporting chronic pain management across provincial and territorial health systems in Canada: Findings from two stakeholder dialogues

Michael G Wilson PhD1,2,3, John N Lavis MD PhD1,2,3,4,5, Moriah E Ellen MBA PhD6,7

BACKGROUND: Chronic pain is a serious health problem given its prevalence, associated disability, impact on quality of life and the costs associated with the extensive use of health care services by individuals living with it.

OBJECTIVE: To summarize the research evidence and elicit health system policymakers’, stakeholders’ and researchers’ tacit knowledge and views about improving chronic pain management in Canada and engaging provincial and territorial health system decision makers in supporting comprehensive chronic pain management in Canada.

METHODS: For these two topics, the global and local research evidence regarding each of the two problems were synthesized in evidence briefs. Three options were generated for addressing each problem, and implementation considerations were assessed. A stakeholder dialogue regarding each topic was convened (with 29 participants in total) and the deliberations were synthesized.

RESULTS: To inform the first stakeholder dialogue, the authors found that systematic reviews supported the use of evidence-based tools for strengthening chronic pain management, including patient education, self-management supports, interventions to implement guidelines and multidisciplinary approaches to pain management. While research evidence about patient registries/treatment-monitoring systems is limited, many dialogue participants argued that a registry/system is needed. Many dialogue participants argued that a registry/system is needed. Many dialogue participants argued that a registry/system is needed. Many dialogue participants argued that a registry/system is needed. Many dialogue participants argued that a registry/system.

Soutenir la gestion de la douleur chronique dans les systèmes de santé provinciaux et territoriaux : les résultats de deux dialogues entre intervenants

HISTORIQUE : La douleur chronique est un grave problème de santé en raison de sa prévalence, des incapacités qui s’y associent, de ses répercussions sur la qualité de vie et des coûts engendrés par l’énorme utilisation des services de santé qui s’y associent.

OBJECTIF : Résumer les données de recherche et obtenir les connaissances tacites et les points de vue des décideurs, des intervenants et des chercheurs sur l’amélioration de la gestion de la douleur chronique au Canada et inciter les décideurs provinciaux et territoriaux du système de la santé à soutenir la gestion complète de la douleur chronique au Canada.

MÉTHODOLOGIE : Les chercheurs ont synthétisé les données de recherche mondiales et locales sur ces deux problèmes. Ils ont proposé trois possibilités pour régler chaque problème et ont évalué les considérations en matière de mise en œuvre. Ils ont organisé un dialogue entre intervenants sur chacun des sujets (auquel 29 participants ont assisté au total) et synthétisé les délibérations.

RÉSULTATS : Pour corroborer le premier dialogue entre intervenants, les auteurs ont découvert que des analyses systématiques soutenaient les outils fondés sur des données factuelles pour renforcer la gestion de la douleur chronique, y compris l’éducation des patients, l’appui à l’autogestion, les interventions pour adopter des directives et des approches multidisciplinaires de la gestion de la douleur. Les données de la recherche sur les registres et les systèmes de surveillance des traitements des patients sont limitées, mais de nombreux participants au dialogue avaient que ce registre ou ce système s’impose. Bon nombre considéraient le registre nécessaire pour poursuivre d’autres projets, y compris la création d’un réseau national de centres de la douleur chronique doté d’un carrefour pour offrir un soutien aux décisions liées à la douleur chronique et un modèle interdisciplinaire et interpayeur de gestion de la douleur chronique doté d’un système de soins de première ligne axé sur le patient. Dans le cadre du deuxième dialogue, les analyses systématiques indiquaient que les médias traditionnels peuvent contribuer à favoriser les comportements positifs en matière de santé et que les partenariats avec de multiples intervenants peuvent contribuer à accroître l’intérêt envers les enjeux figurant aux programmes politiques. Les participants au dialogue ont souligné la nécessité de se mobiliser pour créer un réseau national rassemblant les organisations en place et des personnes engagées.

CONCLUSIONS : La mise sur pied d’un réseau national suivi d’une stratégie nationale de la douleur a suscité un soutien généralisé pendant les dialogues. Des mesures en vue de réaliser ces objectifs ont été prises depuis.

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individuals with chronic pain has been found to be lower than for those with most other chronic diseases (1). The financial impact of chronic pain in terms of health care expenditures and productivity costs has been estimated to be $56 to $60 billion per year in Canada (9).

To support and provide better care for Canadians affected by chronic pain, there is a need to identify how provinces and territories across the country may individually, as well as collectively, strengthen chronic pain management. One approach to addressing health system issues such as chronic pain is to convene stakeholder dialogues, in which the overriding objective is to support evidence-informed policymaking by pairing the best available research evidence with a robust deliberative process that gives voice to the tacit knowledge and real world views and experiences of those involved in and/or affected by the issue. In general, stakeholder dialogues convene health system stakeholders (eg, government officials, professional and community leaders, patients/citizens/groups representing them and researchers) for deliberations with the goal of supporting participants to champion creative efforts to address a pressing health system problem within their respective constituencies (10).

Specifically, dialogues provide stakeholders with the opportunity to bring their tacit knowledge and their own views and experiences to bear on a pressing health system problem, options that would address it and consideration of implementation issues. Each dialogue was informed by an evidence or issue brief that mobilized the best available research evidence about each of these components (an issue brief uses the same approach as an evidence brief, but draws on findings from a previously conducted synthesis of the evidence) (10).

To foster these efforts, the Community Alliances for Health Research and Knowledge Translation on Pain partnered with and provided funding to the McMaster Health Forum (www.mcmaster-healthforum.org) in 2009. It was to act as a neutral convenor for a stakeholder dialogue focused on strengthening chronic pain management in Canada. This dialogue was followed by another in April 2011 (again with funding from CAHR-pain to the McMaster Health Forum) to build on a key finding from the first dialogue—the need to more systematically engage health system decision-makers in supporting comprehensive chronic pain management in provincial and territorial health systems in Canada. Specifically, the challenges of engaging policymakers in the first dialogue led to broad-based consensus among participants that long-term sustainable action is constrained by a lack of attention devoted to chronic pain by health system decision-makers. In the present article, we present the key findings from the two stakeholder dialogues and the briefs that were prepared to inform them (11,12). We also provide an overview of examples of progress that have been made since the dialogues were convened to draw attention to the types of actions that have been or are being taken to address this pressing health system issue.

**METHODS**

The two stakeholder dialogues were convened on December 9, 2009 and April 11, 2011, in Hamilton, Ontario. Briefs sent to participants in advance were prepared by the McMaster Health Forum working in collaboration with an interdisciplinary steering committee. The methods used for preparing the briefs and convening the dialogues are described below. A detailed article describing evidence briefs and stakeholder dialogues is also available for those interested in more systematic engagement of policymakers, managers (eg, from health regions, health care institutions and community-based organizations), stakeholders (eg, from interest groups, provider associations or other stakeholder groups) and researchers, who were actively engaged in the issue of chronic pain. The terms of reference were iteratively revised based on feedback from the key informants and the steering committee and then used to guide the writing of each brief. The key informants were also asked to identify literature that would be relevant to preparing the briefs.

Third, for each brief, relevant research evidence regarding the problem, options and implementation considerations was identified, selected, appraised and synthesized. Whenever possible, research evidence was drawn from systematic reviews and, occasionally, from single studies when reviews were not identified. Published literature was identified by searching PubMed using the health services research search filters for appropriateness, process assessments, outcomes assessments and qualitative research. In addition, grey literature was searched for by reviewing the websites of a number of Canadian and international organizations (13-21). To identify research evidence about the three options in each of the briefs, Health Systems Evidence (www.healthsystemservidence.org) was searched. Health Systems Evidence is a continuously updated database, which in January 2015 contained >4200 systematic reviews and >2200 economic evaluations of health service delivery, including consideration of financial and governance arrangements within health systems. Health Systems Evidence identifies documents from several sources including the Cochrane Database of Systematic Reviews (for systematic reviews of effects) and the Centre for Reviews and Dissemination (for systematic reviews of effects and economic evaluations) (22). The reviews and economic evaluations were identified by searching Health Systems Evidence for chronic pain in the title and abstract and by searching topic categories addressing features of each of the options.

The searches were reviewed for relevance by the lead author of each brief (JNL for the first brief and MGW for the second brief). For each systematic review, the focus of the review, key findings, the last year the literature was searched, the methodological quality (based on AMSTAR [23] ratings that are provided for all reviews contained in Health Systems Evidence), the proportion of included studies that were conducted in Canada and the proportion of included studies focused on chronic pain were extracted. For any reviews that had not been previously quality appraised using AMSTAR, two reviewers independently completed an assessment.

Fourth, key findings in the form of an evidence brief (for the first dialogue) and an issue brief (for the second dialogue) were synthesized. Specifically, the briefs were drafted in such a way as to present concisely and in accessible language the global and local research evidence. The final version of the briefs consisted of a one-page summary of key messages followed by a more detailed description of the problem; three options (including the benefits, harms and costs of the options as well as key elements of and stakeholder experiences with them); and possible barriers to implementation of the options at the levels of individuals, providers, organizations and systems. A merit review process was then undertaken for each brief with a small number of policymakers, stakeholders and researchers to ensure each brief’s system relevance and scientific rigour.

**Convening the stakeholder dialogues**

Working collaboratively with the steering committees, health system stakeholders were identified and invited (government officials, professional and community leaders, groups representing people living with chronic pain and other stakeholders, as well as researchers). Participants were invited who had the ability to: bring unique views and experiences to bear on the challenge and learn from the research evidence and from others’ views and experiences; and champion within their respective constituencies actions that would address the challenge creatively. Participants were identified by reviewing government directories and the websites of relevant organizations and from suggestions provided...
**TABLE 1**

**Features of the problem of chronic pain management (and its causes)**

| Issue                                                                 | Factors contributing to the issue                                                                 |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Significant burden of chronic pain that the health care system must prevent or manage | • Approximately one in five Canadian adults suffer from chronic pain (5,6)                          |
|                                                                      | • The mean age of those with chronic pain (47.7 years) was found to be significantly higher than the mean age of those without chronic pain (42.4 years) (5) |
|                                                                      | • Canadian Community Health Survey data from 2005 indicates that 27% of Canadians aged ≥65 years and living in private households reported chronic pain, compared with 16% of people aged 18 to 64 years (30) |
|                                                                      | • Prevalence increases with age (as many as 65% of community-dwelling older adults and 80% of those living in long-term care facilities have chronic pain) (5,6) |
|                                                                      | • In 2008, 9.7% of Canadians 35 to 44 years of age reported that they usually have pain or discomfort that is moderate or severe, which was higher than the 8.6% reported in 2003 (31) |
|                                                                      | • Quality of life for people with chronic pain has been found to be lower than most other chronic diseases (1) |
| Inconsistent access to effective approaches to chronic pain management | • Little is known about the degree to which Canadians are receiving effective components of comprehensive chronic pain management (particularly outside multidisciplinary pain clinics) or about health care providers’ beliefs about and use of different approaches to chronic pain management |
|                                                                      | • Effective components of comprehensive chronic pain management are available or accessible to varying degrees across Canada |
|                                                                      | ○ 75% of multidisciplinary clinics offered at least one type of interventional technique (eg, peripheral nerve block) and 78% at least one type of physical therapy (eg, individualized exercise program) |
|                                                                      | ○ only 40% of multidisciplinary pain clinics in 2004–2005 offered programs that included support for self-management (eg, coping strategies, neck care, yoga, medication and stress management) despite evidence of their effectiveness and cost-effectiveness |
|                                                                      | ○ a Canadian study conducted in 2005–2006 found that 24% of multidisciplinary pain clinics did not offer any psychological treatments (32) |
| Health system arrangements that limit optimal chronic pain management | • A variety of health system arrangements do not support chronic pain management: |
|                                                                      | ○ inadequate access to primary health care providers for some Canadians and inadequate management of chronic pain by some primary health care providers and specialists, which may be related to inadequate training and continuing professional development; |
|                                                                      | ○ many non-physician health care providers (including community-based rehabilitation practitioners) are not actively engaged in chronic pain management at the primary health care level; |
|                                                                      | ○ inequitable geographical access to regional multidisciplinary chronic pain management centres; |
|                                                                      | ○ lack of a monitoring system to identify patterns of under- and over-utilization of programs, services and drugs; |
|                                                                      | ○ financial arrangements that encourage some forms of care (eg, injections) but not others (eg, counselling and monitoring) and that create financial barriers to access for some people living with chronic pain; and |
|                                                                      | ○ governance arrangements that do not ensure the credentialing of chronic pain providers and clinics |
| Lack of coordinated approaches to support implementation of chronic pain management guidelines | • Numerous clinical practice guidelines exist for the management of chronic pain, yet there is no ‘home’ for the development/updating, implementation and monitoring of these guidelines |

*The information in this table is based on what was available at the time of publication of the evidence brief (December 2009)*

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by members of the steering committee (given their expertise and experience working in the area of chronic pain).

Both dialogues were facilitated by one of the authors (JNL) and included deliberations about the topics addressed in each of three sections of the brief (problem, options and implementation considerations) as well as a fourth deliberation about steps that may be taken by participants’ constituencies. Briefs were sent to participants two weeks before the dialogue and it was requested that they read it before arriving so that all participants would face a ‘level playing field’ in terms of background information and time would not need to be devoted to reviewing the detailed contents of the brief. The goal was not to aim for consensus but rather to provide a space where diverging opinions could be shared and discussed and to identify where synergistic efforts among stakeholders to address the problem might be possible. In addition, each dialogue followed the Chatham House rule (ie, information used during the meeting may be used, but neither the identity nor the affiliation of participants were to be revealed). Finally, the dialogues were not recorded but notes were taken by the facilitator and students assisting with each dialogue. These notes were used to draft summaries of each dialogue that highlighted the key themes that emerged during each deliberation, points of disagreement or general consensus, and the types of action that participants thought could be taken following the dialogue (the identities of participants were kept confidential in the dialogue summaries).

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**RESULTS**

**Topic 1: Supporting chronic pain management across provincial and territorial health systems in Canada**

The first stakeholder dialogue addressed the issue of chronic pain management across Canada. We present below a summary of the key findings from the evidence brief and the key themes of the deliberations. For those interested in additional information, the evidence brief (12) and dialogue summary (24) are available on the McMaster Health Forum website (www.mcmasterhealthforum.org).

**Key findings from the evidence brief:** The challenge of strengthening chronic pain management in provincial and territorial health systems can be understood by considering four sets of inter-related issues, outlined along with a summary of contributing factors in Table 1. Many options were available to address the issues. To promote discussion about the pros and cons of potentially viable options, we selected three, which we outline in Table 2, along with a summary of key findings. Finally, we identified implementation barriers at the level of individuals, care providers and systems, as well as possible strategies to address the barriers, which we outline in Table 3.

**Summary of dialogue 1:** The dialogue brought together a diverse group of 13 stakeholders (two policymakers/managers, three health care provider association/group representatives, four researchers and four other stakeholders) from across Canada. The group was smaller than our target size of 18 to 22, largely due to the difficulty...
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### TABLE 2
Three options for better supporting chronic pain management*

| Option                                                                 | Option focus and elements                                                                                                                                                                                                 | Summary of key findings                                                                 |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1. Create a model patient registry/treatment-monitoring system in a single jurisdiction | • This option focuses on:  
  o identifying what services are being offered to whom (ie, what types of patients), by whom (eg, what disciplines), and how frequently (with appropriate attention to privacy concerns);  
  o identifying both under- and over-utilization;  
  o monitoring efforts to improve service delivery and evaluating their impacts; and  
  o publicly reporting opportunities for improvement  
  • To further understand this option, it is useful to consider it according to four key health system elements:  
    o patient registries;  
    o treatment-monitoring systems;  
    o privacy issues pertaining to patient registries/treatment-monitoring systems; and  
    o public reporting of aggregated data | • Substantial uncertainty exists regarding this option’s benefits and potential harms  
  • No clear message was derived from an older (2006) medium-quality review about the effects of public reporting on effectiveness, safety and patient-centredness (35)  
  • No relevant reviews were identified about privacy issues pertaining to a patient registry/treatment-monitoring system  
  • Synthesized research evidence is available to support the use of a range of evidence-based tools and resources:  
    o Two high-quality reviews and one medium-quality review focused on patient education and showed favourable results in terms of pain reduction (however, all reviews are more than five years old).  
    o Other reviews identified some benefits and no harms with respect to other self-management supports (eg, patient education, decision aids, personal health records, peer support and telephone support) (36-46), interventions to support the implementation of clinical practice guidelines (multi-faceted interventions were found to generally be most effective) (12), and continuing professional development to support evidence-based care (12)  
  • No reviews were identified that relate directly to the concept of a hub.  
  • Several reviews relate to cross-discipline models of care.  
    o Three medium-quality reviews and one high-quality review that relate to multidisciplinary approaches to pain management found medium to strong evidence for improvements in patient function (47)  
    o Another recent (2009) high-quality review showed no difference in patient outcomes between those receiving multidisciplinary rehabilitation and those in control groups (43)  
  • No recent or high-quality reviews were identified about cross-payer models of patient-centred primary health care | |
| 2. Create a national network of centres with a coordinating ‘hub’ to provide chronic pain-related decision-support | • The function/focus of a coordinating hub would be to:  
  o analyze data about treatment patterns (which can include the analysis of data from a patient registry/treatment-monitoring system, which was the focus of the preceding option);  
  o synthesize research evidence;  
  o develop and disseminate resources and tools to support self-management;  
  o develop and disseminate clinical practice guidelines and other resources and tools to support providers and organizations in prevention, early identification, and ongoing treatment;  
  o offer support to undergraduate professional training programs;  
  o offer continuing professional development and other strategies to support evidence-based care (both for single disciplines and multidisciplinary teams); and  
  o monitor efforts to improve care (across the full range of payers and the full continuum of care, including primary health care, postsurgical care, etc) and evaluate their impacts | |
| 3. Broker and support the implementation of a cross-payer, cross-discipline model of patient-centred primary health care-based chronic pain management | • This option focuses on rewarding:  
  o quality, such as by re-balancing fee schedules away from procedures and toward payment for the time demands associated with assessment, management, support, and dealing with payers and employers, and by accrediting chronic pain ‘specialist’ providers or centres; and  
  o efficiency, such as by engaging the most cost-effective providers and by providing tiered support from telecommunication to in-person interactions, and through tiered referrals from primary health care to accredited regional multidisciplinary pain clinics  
  • This system redesign has a number of health system elements that each need to be considered:  
    o cross-payer models of patient-centred primary health care-based chronic pain management;  
    o cross-discipline models of patient-centred primary health care-based chronic pain management that address the full spectrum of comprehensive care (eg, prevention, early intervention, treatment, management and rehabilitation);  
    o rewards for quality and efficiency in primary health care;  
    o fee schedules that consider the time demands associated with primary and secondary prevention, treatment, management and rehabilitation, as well as dealing with payers and employers;  
    o accrediting chronic pain ‘specialist’ providers or centres;  
    o engaging the most cost-effective providers; and  
    o providing tiered support from telecommunication to in-person interactions and through tiered referrals from primary health care to accredited regional multidisciplinary chronic pain management centres | |

*The findings in this table are based on what was available at the time of publication of the evidence brief (December 2009)*
with engaging policymakers/managers from across the country. This highlighted the need for a follow-up dialogue about how to engage health system decision makers in supporting comprehensive chronic pain management.

In deliberating about the problem, several dialogue participants argued that significant stigma was associated with chronic pain and that this stigma translated into a lack of legitimacy of the need for care, which in turn added to the burden of chronic pain. Some of these dialogue participants argued that “no recognition of chronic pain as a disease” was a significant dimension of the problem; however, other dialogue participants were not convinced by this argument. Dialogue participants generally agreed that effective chronic pain management programs, services and drugs were not always available or accessible to all Canadians, and they also agreed that there are significant gaps in our knowledge about these shortcomings and their causes. Participants also agreed that current provincial and territorial health system arrangements do not support chronic pain management for all Canadians. As one dialogue participant said, “access is terrible and getting worse.”

During the deliberation about options to address the problem, several dialogue participants argued strongly that a patient registry/treatment-monitoring system (option 1) was definitely needed to support efforts to monitor the implementation of new approaches to organizing chronic pain management and to evaluate their impacts. Several dialogue participants saw the registry/system as a precondition for other treatment efforts to monitor the implementation of new approaches to organizing chronic pain management and to evaluate their impacts. Several dialogue participants agreed that current provincial and territorial health system arrangements do not support chronic pain management for all Canadians.

### Table 3

| Levels       | Potential barriers                                                                 |
|--------------|-------------------------------------------------------------------------------------|
| Individual   | Option 1 (create a model patient/registry/treatment-monitoring system in a single jurisdiction)  
- Operational challenge in defining eligibility for a condition that lacks an ‘event’, widely agreed diagnostic criteria and demonstrated pathology  
- Collection of individual-level data may compromise an individuals’ privacy and lead to stigmatization  
- Individuals often have more than one diagnosis (eg, chronic pain and arthritis) that requires monitoring  |
| Care provider| Option 1 (create a model patient/registry/treatment-monitoring system in a single jurisdiction)  
- Primary health care providers will require training and support in how to use the registry/monitoring system  
- Option 2 (create a national network of centres with a coordinating ‘hub’ to provide chronic pain-related decision support)  
- Primary health care providers may perceive decision supports as a threat to their professional authority  
- Professional training and ongoing continuing professional development need to address how to deliver the full spectrum of comprehensive chronic pain management  |
| Organization  | Option 1 (create a model patient/registry/treatment-monitoring system in a single jurisdiction)  
- Organizations must be sensitive to the personal health information being collected and how it is used.  
- Option 2 (create a national network of centres with a coordinating ‘hub’ to provide chronic pain-related decision support)  
- All clinical and non-clinical members of health care teams need to be aware of the processes that need to be in place for effective use of information technologies  
- Option 3 (implement a cross-payer, cross-discipline model of patient-centred primary healthcare-based chronic pain management)  
- Collaborative work arrangements need to be established and maintained between primary healthcare organizations, secondary and tertiary care organizations that can support these primary healthcare organizations (eg, chronic pain management programs in academic health science centres), and payers.  |
| System       | Option 1 (create a model patient/registry/treatment-monitoring system in a single jurisdiction)  
- Resources must be in place to ensure sustainability of information systems in the longer term.  
- The need for public health surveillance must be balanced with the need for individual privacy.  
- Option 2 (create a national network of centres with a coordinating ‘hub’ to provide chronic pain-related decision support)  
- Accountability structures need to be in place, which satisfy the multi-institutional and cross-jurisdictional nature of a national network of centres  
- Option 3 (implement a cross-payer, cross-discipline model of patient-centred primary healthcare-based chronic pain management)  
- There may be a lack of human resources to provide team-based care (although which professionals and health care setting are required would need to be assessed initially)  
- Provincial and territorial governments may be unwilling to broaden the breadth and depth of public payment for primary health care, particularly during a recession.  |

### Possible strategies to address the barriers

- Initiate a national stakeholder-engagement process to raise awareness of health system issues within the chronic pain community and to raise awareness of chronic pain issues within the health policy and systems community
- This approach could be informed by the work done in Australia, which was the first country in the world to develop a national strategy and framework for the treatment and management of pain (27), which was the key outcome of a National Pain Summit in 2010 (48)
- A similar approach in Canada might mobilize evidence from sources including (but not limited to) academic pain centres, interest groups representing people living with chronic pain and the public, health provider associations and other sources.

*The information in this table is based on what was available at the time of publication of the evidence brief (December 2009)*

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options. Several participants also voiced strong support for the research and support functions that a national network of centres with a coordinating ‘hub’ (option 2) could achieve for people living with chronic pain and their providers. Many also supported the idea of a cross-discipline model of patient-centred, primary health care-based chronic pain management. This model could include: primary health care practices/clinics assuming the primary responsibility for effective chronic pain management; and opportunities for these practices/clinics to periodically engage multidisciplinary and multimodal secondary- and tertiary-level supports for those living with chronic pain requiring more complex care and support.

As part of the deliberation about implementation considerations, several dialogue participants noted that prospects for success for the registry/system (option 1) would be much greater if implemented in the form of a program of research rather than as a government or regional health authority initiative. Some argued that successful implementation of a national network of centres (option 2) hinged on getting the right champions (clinicians, leaders in teaching institutions and people living with chronic pain) around the table from the beginning. Several dialogue participants suggested that brokering and supporting the implementation of a cross-discipline model (option 3) could be facilitated in the short term through demonstration projects, coupled with rigorous monitoring and evaluation, and in the long term through a systematic effort to “move beyond the early adopters.”

In the last deliberation about next steps that different constituencies could take, one dialogue participant argued that governments seem unprepared to take action in the short term, so “stakeholders have to be the ones who make it happen.” Several dialogue participants argued that the critical next step should be to engage those who could take action, including key opinion leaders (both those leading the push for strengthened chronic pain management and those in primary health care practices), regional health authorities and government. A number of dialogue participants argued that success stories need to be identified, their cost-effectiveness relative to the status quo studied, and the findings from this effort popularized in a systematic way.

### Topic 2: Engaging health system decision makers in supporting comprehensive chronic pain management in provincial and territorial health care systems in Canada

The second dialogue was designed to build on the key finding from the first dialogue that long-term sustainable action is constrained by the lack of attention paid to chronic pain by health system decision makers. Given this, the second dialogue was focused on how to more systematically engage health system decision makers in supporting comprehensive chronic pain management in provincial and territorial health care systems in Canada. For the purposes of this brief and dialogue, decision makers included policymakers (and those who support policymakers), and regional health authority staff. We present below a summary of the key findings from the issue brief and the key themes of the deliberations for those interested in additional information, the issue brief (11) and dialogue summary (25) are available on the McMaster Health Forum website (www.mcmasterhealthforum.org).

#### Key findings from the issue brief: The lack of health system decision maker engagement in supporting comprehensive chronic pain management in provincial and territorial health care systems in Canada can be understood by considering four sets of inter-related issues, outlined along with a summary of contributing factors in Table 4. Similar to the first brief, to promote discussion about the pros and cons of potentially viable options, we selected three, which we outline in Table 5 along with a summary of the key findings. Finally, we identified implementation barriers at the level of individuals, care providers and systems, as well as possible strategies to address the barriers, which we outline in Table 6.

#### Summary of dialogue 2: The dialogue brought together 16 participants from across Canada, which included six health system decision makers, four individuals from groups representing people living with chronic pain and professionals, five researchers and one representative from another stakeholder group.

During the deliberation about the problem, most participants noted that the lack of health system decision maker engagement is largely the result of a lack of awareness of the problem. Themes related to this lack of awareness that emerged during the dialogue include: a lack of understanding of chronic pain (which in turn relates to a lack of consensus about what chronic pain actually is, and a lack

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### TABLE 4

| Features of the problem of the lack of health system decision maker engagement in supporting comprehensive chronic pain management (and its causes)* |
|---------------------------------------------------------------|
| **Issue** | **Factors contributing to the issue** |
| Lack of awareness of chronic pain | • Chronic pain may not garner sufficient attention because it is often associated with or the result of one or more physical or psychological comorbidities and, as a result, it is often seen as a symptom rather than a disease or condition in its own right (1) |
| Lack of awareness of limitations in existing programs and services | • General limitations in the availability of and access to primary health care services are likely felt particularly intensely by those living with chronic pain, given they may be seen as more complex (and hence be less likely to be taken on as patients); they may have greater needs for care (and hence be more likely to suffer the consequences of a lack of care), and they may be more likely to seek out care in suboptimal settings such as emergency rooms (and hence be more likely to suffer the consequences of inappropriate care) |
| Gaps in health system arrangements that limit the attention given to chronic pain | • A variety of health system arrangements contribute to the problem, including: <ul><li>gaps in existing delivery arrangements (eg, lack of well-established packages of care/guidelines for the management of chronic pain, lack of a comprehensive continuum of care, and lack of integration with other models of proactive and coordinated care for chronic conditions);</li> <li>financial arrangements (eg, lack of visibility of the public and private costs of chronic pain management and lack of financial incentives for effective chronic pain management at the primary health care level); and</li> <li>governance arrangements (eg, lack of clear policy authority and lack of training and accreditation for health care providers and clinics to deliver care to people living with chronic pain) |
| Limited reach of existing efforts to engage health system decision makers in supporting chronic pain | • Several efforts have been made with the goal of developing and implementing a national pain strategy including briefs from the Canadian Pain Coalition and Canadian Pain Society that contained recommendations to government about the creation of a strategy (49), and broad-based endorsement for a national pain strategy at the Canadian Pain Summit, which garnered significant attention (26) |

*The information in this table is based on what was available at the time of publication of the issue brief (April 2011)
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### TABLE 5

| Option | Option focus and elements | Summary of key findings |
|--------|---------------------------|-------------------------|
| 1. Launch an advocacy campaign | • Launching an advocacy campaign may involve using a variety of advocacy approaches to:  
  - increase attention to the issue in general; and  
  - elevate the visibility of chronic pain on provincial and territorial governments’ agendas in particular (with this goal being ideally positioned within a more general effort to encourage better informed health system decision making)  
  • Approaches to advocacy might include:  
    - traditional media for public engagement, such as print, radio and television;  
    - ‘new media’ for public engagement, such as mass short messages (MSMs) and other mobile phone-based strategies, as well as online petitions and other Internet-based approaches; and  
    - efforts to directly engage government officials | • Traditional media has been found by two high-quality but older reviews to positively influence individual health-related behaviours (50,51)  
• We did not identify systematic reviews that address whether and how the three types of advocacy initiatives outlined in the adjacent column (traditional media, ‘new media’ and direct engagement) increase the attention paid to an issue by decision makers |
| 2. Create a multistakeholder provincial or national working group | • This option involves raising awareness and support among policymakers who could or should be paying attention to chronic pain, ideally in the context of a broader effort to engage all relevant stakeholders in supporting improvements to chronic pain management (with the stakeholders including the full range of health system decision makers, health care providers, researchers and provincial/national coalitions or nongovernmental organizations)  
  • Elements of a multistakeholder provincial or national working group could include:  
    - establishing a national network of stakeholder groups with a coordinating ‘hub’;  
    - engaging key opinion leaders who can take action, both those leading the push for strengthened chronic pain management and those in primary health care practices, regional health authorities and government;  
    - equipping these key opinion leaders (and the stakeholder groups from which they are drawn) with the necessary tools to take action, which may in turn include:  
      - compelling data and stories about the current burden of chronic pain and the implications (eg, costs) of not addressing it;  
      - regularly updated, evidence-based packages of care/guidelines for the management of chronic pain at the primary health care level and in related fields of practice;  
      - mechanisms to coordinate across fields of practice and across relevant disease groups that are often linked to chronic pain; and  
      - periodically identified priorities for new primary and secondary research and the communication of these priorities to relevant funders | • One medium-quality systematic review found a lack of evidence about the effects of multistakeholder networks (specifically public health partnerships) on health outcomes but qualitative studies included in the review suggested that some partnerships increased the profile of health inequalities on local policy agendas (52)  
• Four older systematic reviews related to engaging opinion leaders (in the clinical context), three of which were high quality (53-55) and one low quality (56)  
  - Each review focuses on the clinical context, but still offer helpful insights about the potential effects of using local opinion leaders who can lead the push for engaging health system decision-makers in strengthening chronic pain management  
  - Both of the high-quality reviews found minimal evidence about local opinion leaders, but one concluded that opinion leaders with or without another intervention were generally effective for improving appropriate care (53), and the other concluded that there was insufficient evidence to determine the effectiveness of local opinion leaders in the field of physiotherapy (54)  
  - The remaining two reviews similarly concluded that there is insufficient evidence to determine whether local opinion leaders are effective for supporting clinical practice (55,56) |
| 3. Develop chronic pain policy portfolios and strategic foci | • Developing policy portfolios or strategic foci would provide the opportunity to coordinate responses to chronic pain within and across governments, regional health authorities, and the stakeholder community and could include:  
  - engaging and liaising with other relevant policy areas within the government and regional health authorities to coordinate the development and implementation of relevant policies and programs; and  
  - engaging and liaising with relevant stakeholders to inform the development and implementation of programs and services in the community | • No systematic reviews examining any of the elements of this option were identified  
• Key messages that emerged from previous efforts in Canada to reallocate resources and decision making to support a shift in perspective may provide helpful insight:  
  - In the early 1990s, the province of Prince Edward Island initiated a process of ‘cross-sectoral reallocation’ that emphasized “broad determinants of health, client focus in service delivery, pooling of human services, integration and coordination of services, and the establishment of regional governance” (28,57-61)  
  - An analysis of instruments put in place to facilitate the shift toward the broad determinants of health revealed that regional governance can help ensure integration and coordination within regions but that there is a need for a central authority to ensure equity between regions (28)  
  - Additional elements cited as important facilitators of the process include: fostering an organizational culture that is supportive of change; and starting with low-profile changes that can demonstrate how it can work (29) |

* The findings in this table are based on what was available at the time of publication of the issue brief (April 2011)
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TABLE 6
Potential barriers to implementing the options in the issue brief*

| Levels          | Potential barriers                                                                 |
|-----------------|------------------------------------------------------------------------------------|
| Individual      | Option 1 (launch an advocacy campaign)                                              |
|                 | • People living with chronic pain may be unwilling (eg, due to the stigma associated with chronic pain) or unable (eg, due to the limitations related to having chronic pain) to be meaningfully engaged in advocacy campaigns |
|                 | • There is a wide array of advocacy campaigns for many different diseases with each competing for the attention of the broader public |
|                 | Option 2 (create a multistakeholder provincial or national working group)           |
|                 | • People living with chronic pain may be unwilling (eg, due to the stigma associated with chronic pain) or unable (eg, due to the limitations related to having chronic pain) to be meaningfully engaged in the activities of a working group |
|                 | Option 3 (develop policy portfolios in ministries and strategic foci in regional health authorities) |
|                 | • Not applicable – such a change would likely not be visible to individuals       |
| Care provider   | Option 1 (launch an advocacy campaign)                                              |
|                 | • Providers or associations of providers attempting to directly engage health system decision makers may not have the time or skills required to make the case for better supporting chronic pain management |
|                 | Option 2 (create a multistakeholder provincial or national working group)           |
|                 | • Providers may be skeptical about or unwilling to implement the recommendations from a working group |
|                 | Option 3 (develop policy portfolios in ministries and strategic foci in regional health authorities) |
|                 | • Not applicable – such a change would likely not be visible to care providers    |
| Organization    | Option 1 (launch an advocacy campaign)                                              |
|                 | • Organizations attempting to directly engage health system decision makers may not have the time or skills required to make the case for better supporting chronic pain management |
|                 | • Key health system advocacy organizations (eg, medical associations) may not be willing to devote resources to advocacy for chronic pain compared to other conditions that have bigger impacts on their members’ interests |
|                 | Option 2 (create a multistakeholder provincial or national working group)           |
|                 | • Health care delivery organizations may not be willing to participate in a working group for chronic pain compared with other conditions that have bigger impacts on their organization |
|                 | • Organizations with existing chronic pain strategies may not be willing to participate in a working group that is covering ground that they have already covered |
|                 | Option 3 (develop policy portfolios in ministries and strategic foci in regional health authorities) |
|                 | • Regional health authorities are increasingly focused on broad issue domains (eg, chronic disease) that encompass many different diseases rather than on specific issues |
| System          | Option 1 (launch an advocacy campaign)                                              |
|                 | • There is a wide array of advocacy campaigns for many different diseases with each competing for the attention of health system decision makers |
|                 | Option 2 (create a multistakeholder provincial or national working group)           |
|                 | • There are limited resources available to support the development and ongoing activities of a working group |
|                 | Option 3 (develop policy portfolios in ministries and strategic foci in regional health authorities) |
|                 | • Ministries of health, and those seeking to influence them, are increasingly focused on broad issue domains (eg, chronic disease) that encompass many different diseases rather than on specific issues |

Possible strategies to address the barriers

• Given that several options may be pursued simultaneously and that option elements may be combined in different and creative ways, identifying ‘cross-cutting’ implementation strategies may be an important first step
• One possible cross-cutting implementation strategy may be the development, pilot testing and iterative redevelopment of a package of communication materials that highlight the ways in which chronic pain affects people’s lives, the costs associated with the status quo, and success stories (and how their cost-effectiveness compares with the status quo)

*The information in this table is based on what was available at the time of publication of the issue brief (April 2011)

of those living with it, a lack of documentation of the broader economic impact of chronic pain, and a lack of documentation of success stories in chronic pain management.

In deliberating about the three options to address the problem, most dialogue participants strongly endorsed the creation of a national multi-stakeholder network. Participants indicated that such a network should be comprised of organizations and committed individuals who would work collaboratively to raise awareness about chronic pain, and increase support for and coordination in comprehensive chronic pain management. Several dialogue participants called for including in the network those involved in chronic disease management, primary health care, and other domains that have already been prioritized (particularly those that are highly relevant to people living with chronic pain). Most participants believed that an advocacy campaign would be an important function for this network. A number of dialogue participants also endorsed the idea of developing chronic pain policy portfolios within government, and strategic foci within regional health authorities. It was suggested that these would optimally be nested within broader portfolios/foci such as chronic diseases to ensure there is a clear ‘anchor’ for chronic pain within health systems.

Five significant challenges related to implementation were identified by dialogue participants: identifying a leadership model; ensuring the capacity and willingness of existing organizations and individuals to engage in creating and sustaining the network; weighing the advantages of working within a small group of provinces and territories to achieve some early wins, versus working across all provinces and territories simultaneously; securing the resources to design, launch and operate the network and any advocacy campaign it develops; and scaling up the efforts to identify and harness data and to produce and synthesize research evidence that supports the work of the network and the content of any advocacy campaign.
The deliberation about next steps focused on the need to mobilize toward building a national network that would bring together existing organizations and committed individuals. Some early wins for the network may include the endorsement of a national pain strategy, which would include agreed-upon definitions. Several dialogue participants emphasized the primacy being given to an ‘evidence-based’ and ‘grass-roots’ approach, and being certain not to lose these features in a rush to a ‘big bang’ solution.

Progress following the dialogues
Progress has been made in several areas that were deliberated about during the stakeholder dialogues (26), including: launching an advocacy campaign (eg, a delegation went to Parliament Hill in the lead up to the Canadian Pain Summit in April 2012), the initiation of a national stakeholder-engagement process (National Pain Summit to raise awareness of health system issues within the chronic pain community and to raise awareness of chronic pain issues within the health policy and systems community (this was highlighted as a possible implementation strategy in the first dialogue); and developing chronic pain policy portfolios and strategic foci (eg, Ontario’s efforts to develop a chronic pain plan for the province). In Australia, such advocacy and stakeholder engagement efforts (eg, the National Pain Summit held there in 2010) were the main catalysts that led to them being the first country in the world to develop a national strategy and framework for the treatment and management of pain (27). Similar momentum and interest among policymakers and stakeholders seems to be building in Canada toward developing a similar strategy for the country.

DISCUSSION

Principal findings
To inform the first dialogue, we found that systematic reviews supported the use of evidence-based tools for strengthening chronic pain management, including patient education, self-management supports, interventions to implement clinical practice guidelines, and multidisciplinary approaches to pain management. While evidence about patient registries/treatment-monitoring systems is limited, many dialogue participants argued strongly that such a system is needed. In addition, many saw a registry as a precondition for moving forward with other options, including creating a national network of chronic pain centres with a coordinating ‘hub’ to provide chronic pain-related decision support, and a cross-payer, cross-discipline model of patient-centred primary health care-based chronic pain management. For the second dialogue, we found systematic reviews indicating that traditional media can be used to positively influence individual health-related behaviours, and that multistakeholder partnerships can contribute to increasing the attention paid to issues regarding policy agendas. We also found evidence from previous efforts in Canada for ‘cross-sectoral reallocation’, which highlighted that regional governance can help ensure integration and coordination within regions (28). The evidence also indicated that fostering an organizational culture that is supportive of change, and starting with low-profile changes that can demonstrate how it can work, were important facilitators of cross-sectoral reallocation processes (28).

Dialogue participants emphasized: the need to mobilize behind an effort to build a national network that would bring together existing organizations and committed individuals; an early win for the network may include the endorsement of a national pain strategy; and the need to not lose the primacy given to an ‘evidence-based’ and ‘grass-roots’ approach in a rush to a ‘big bang’ solution.

Strengths and limitations
Our process had two notable strengths and two important limitations. First, because we were not actively engaged in work related to chronic pain, we were able to act as neutral convenors of the stakeholder dialogues, which allowed us to better achieve our overriding objective of supporting evidence-informed policymaking. The second strength is that we paired the best available research evidence with a robust deliberative process that gives voice to the tacit knowledge and real world views and experiences of those involved in and/or affected by the issue. The main limitation of the present paper is that the findings reported from the evidence and issue briefs are based on the research evidence that we identified at the time of finalizing each (December 2009 for the evidence brief and April 2011 for the issue brief). We determined that presenting the evidence from the original documents was the optimal approach as it provides a picture of what dialogue participants had reviewed before each of the stakeholder dialogues. However, we provided a monthly evidence service to stakeholders for one year following each dialogue, which kept them updated about new systematic reviews that had been published about each of the options in the briefs. The second limitation is that we were unable to engage our target size of 18 to 22 participants in each dialogue, with only 13 participants in the first dialogue and 16 in the second. In addition, we only engaged two policymakers in the first dialogue, which was the rationale to convene the second where we were able to engage six policymakers.

Implications for policy
The actionable messages coming out of these dialogues are clear: chronic pain management needs to be properly addressed in Canada and it is critical to engage leaders who can take action. Developing a national network and thereafter a national pain strategy are important initiatives that garnered broad-based support in the dialogues. Progress has been made towards these goals, although sustained efforts are required to build on this progress. In both dialogues, the idea of success stories or quick wins, which highlight the advantage of interventions, were identified as important next steps toward developing such a strategy.

Implications for research
What was apparent from the evidence and issue brief is that numerous research gaps exist. Whether the focus was the incidence and distribution of chronic pain in Canada, possible options to address problems with its management or key implementation considerations, there were few systematic reviews, and many of those that did exist were dated and of mixed quality. These gaps likely explain the assertion by dialogue participants that there is a lack of well-documented cases for why chronic pain is an important issue that health system decision makers should focus on. While there have been some efforts to this end, such as a book that provides a health policy perspective about chronic pain (29), the dialogue participants were speaking directly to the lack of awareness of such efforts, the need to supplement them with stories about how chronic pain affects the lives of those living with it, and documentation of the broader economic impact of chronic pain. In addition to this, future research may also be focused at: the level of people living with chronic pain by examining the implications of classifying chronic pain as a disease in Canada; the provider level by analyzing their perceptions to different initiatives or treatment of chronic pain; the organizational level by evaluating the effectiveness of approaches to providing comprehensive chronic pain management; and at the health system level by examining the feasibility of creating a national network or studying the impact of chronic pain policy portfolios.

ACKNOWLEDGEMENTS: The authors thank those involved with preparing the briefs and organizing the dialogues, who they formally acknowledge in the two briefs that are available on the McMaster Health Forum website (www.mcmasterhealthforum.org).

DISCLOSURES/FUNDING: The authors have no conflict of interest to declare. The work presented in this article was funded by the Community Alliances for Health Research and Knowledge Translation on Pain (CAHR-Pain).
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