

What do we know about Canadian involvement in medical tourism? A scoping review

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ABSTRACT

Background: Medical tourism, the intentional pursuit of elective medical treatments in foreign countries, is a rapidly growing global industry. Canadians are among those crossing international borders to seek out privately purchased medical care. Given Canada's universally accessible, single-payer domestic health care system, important implications emerge from Canadians' private engagement in medical tourism.

Methods: A scoping review was conducted of the popular, academic, and business literature to synthesize what is currently known about Canadian involvement in medical tourism. Of the 348 sources that were reviewed either partly or in full, 113 were ultimately included in the review.

Results: The review demonstrates that there is an extreme paucity of academic, empirical literature examining medical tourism in general or the Canadian context more specifically. Canadians are engaged with the medical tourism industry not just as patients but also as investors and business people. There have been a limited number of instances of Canadians having their medical tourism expenses reimbursed by the public medicare system. Wait times are by far the most heavily cited driver of Canadians' involvement in medical tourism. However, despite its treatment as fact, there is no empirical research to support or contradict this point.

Discussion: Although medical tourism is often discussed in the Canadian context, a paucity of data on this practice complicates our understanding of its scope and impact.

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MEDICAL TOURISM (MT) IS A SPECIFIC FORM OF out-of-country care that is gaining in popularity among Canadians. It has garnered public attention as stories of Canadians who have successfully gone abroad for cardiac, plastic, transplant, orthopedic, dental and other surgeries have begun to permeate the Canadian media.¹⁻³ Recent attention has also been given to the potential for Canada to become a destination for international medical tourists.⁴⁻⁷ MT involves patients intentionally leaving their countries of residence to access non-emergency medical interventions abroad.⁸ Medical tourists are not ill vacationers or expatriates getting medical care while on visits home, nor are they medical

“voluntourists” (health workers who go abroad to provide care); they are not individuals who travel abroad to access complementary or alternative therapies (although this type of travel is a form of health tourism more broadly). Although some proximal countries plan cross-border care arrangements, MT operates outside of such arranged care in that medical tourists typically arrange for their care on their own (i.e., without the help of a physician).⁹

By seeking care abroad, Canadian medical tourists are thought to signal their displeasure with Canadian health care. This displeasure might arise from interactions with the Canadian health care system or from perceptions they have formed from media reports or other sources.

They might be displeased with such issues as overly lengthy waiting times, the unavailability of services (because they have not been approved by regulatory bodies or are inadequately funded), and high out-of-pocket costs for care not covered by Canada’s public health insurance system, commonly called medicare (e.g., cosmetic and dental surgeries).^{10–12}

Some groups have expressed interest in positioning Canada as a host for medical tourists from abroad.^{4–6, 13} However, it is not clear whether Canada is a viable destination for medical tourists and how the provision of care for these patients would affect the Canadian health care system. We sought to synthesize what is known about Canadian involvement in MT through a scoping review of the academic (i.e., peer-reviewed) literature and media literature (i.e., articles in popular-press and business magazines and newspapers). Other reviews of MT are beginning to emerge, including a general review of the state of knowledge of MT,¹⁴ a scoping review of the patient’s experience of MT⁹ and a review of MT in Europe.¹⁵ Because of the relevance of MT to the health of Canadians and the Canadian health care system, we believe it is important to assess the state of knowledge on this issue. To our knowledge, this is the first

country-specific synthesis of the literature on MT. The two primary aims of this scoping review were to (1) determine what is known about Canadian involvement in MT and (2) identify gaps in our knowledge about Canadian involvement in MT.

Methods

To guide our review, we employed the seminal framework for scoping reviews designed by Arksey and O’Malley.¹⁶ There were 5 stages to the review process: (1) establishing the question, (2) identifying relevant literature, (3) selecting the literature, (4) charting the data and (5) collating, summarizing and reporting the results. Our focus was on travel abroad for surgical procedures other than transplantation or reproductive procedures (known as “reproductive tourism”), as these interventions have implications for persons other than the medical tourist and raise distinct legal, ethical and jurisdictional concerns that require separate consideration.

Identifying the question. Our first step was to select and scan a limited number of MT sources to establish a review question and identify relevant keywords. To do this we searched “medical tourism” in the Web of Science database and scanned the first 20 articles in the search results to identify relevant keywords. Five categories of keywords were identified (Table 1): the first category included keywords for the overall topic of the review, and the remaining 4 categories included keywords associated with the questions what, who, why and where. Countries known to us to be destination and departure points for international patients engaging in MT were used to populate the “where” category.

Identifying relevant literature. Our second step was to develop a search strategy, in consultation with a librarian, to scope English-language academic and media sources. Our search was limited to English-language sources to reflect the language competency of the reviewers. Eighteen databases were selected (Table 2). Different search strategies were created for databases of media reports and academic articles. Terms from separate categories of keywords were searched together using Boolean operators in academic databases. This strategy allowed us to maximize the combinations of

Table 1: Keyword search strategy

Subject of review	What	Who	Why	Where
Medical tourism	Surger*	Patient	Decision making	Destination
Health tourism	Elective surger*	Tourist	Factors	Brazil
	Surgical procedure*		Decision	India
	Hospital*		Attitudes	Thailand
	Clinic*		Motivation	South Africa
			Destination choice	Indonesia
			Tour*	Cuba
			Travel	Mexico
			Vacation*	Philippines
			Adventur*	Singapore
				United States
				Canada
			Wait time	
			Wait list	
			Queue	
			Speed	
			Value*	
			Ethic*	
			Privat*	
			Effects	
			Two tier	
			Cost savings	
			Affordability	
			Savings	
			Cost	
			Motivat*	
			Perspective*	
			Distance	
			Quality	

* The asterisk denotes a wildcard used to find all words beginning with the letters preceding it.

terms scoped. In some instances, combinations of keywords generated unmanageably large numbers of results that were mostly irrelevant to the review. In these cases the search manager (VAC) narrowed the results by eliminating the term that had produced the broadest results on the basis of a recommendation from the consulting librarian. This successfully limited the number of hits and ultimately increased the relevancy of the results. For media databases, only the terms “health tourism” and “medical tourism” were searched. Specific North American media sources that are known to cover Canadian health services issues were also searched in the LexisNexis database. All retrieved records were stored in the RefWorks bibliographic management program.

Selecting the literature. In the third step, all of the results were screened for inclusion. This process was iterative: after all 4 of us screened titles and abstracts, but before we screened full texts, we created eligibility criteria to guide inclusion/exclusion decisions.¹⁶ Of note, media reports were automatically passed to full-text review, as abstracts were not available. Articles were excluded if they had (1) no focus on medical intervention (e.g., articles dealing with health tourism more broadly), (2) an exclusive focus on reproductive tourism or transplant tourism or (3) an overly general focus on cross-border care, out-of-country care or international trade in health services.

Articles that were deemed suitable for inclusion in the review at the title and abstract review stage were next read in full by 2 readers. The reference lists of these articles were hand searched to identify additional articles that were not identified through our initial search, and these were also read in full. Disagreements about eligibility were resolved by discussion and consensus. The eligibility criteria that had been applied to the titles and abstracts were applied again, with one additional criterion: if no data (i.e., information points that contributed to answering the scoping question) could be

extracted from an article it was to be excluded. Articles were assigned to readers by the search manager. To keep the review process manageable, articles were reviewed in batches. After each batch was completed, the team met to make decisions about the exclusion or inclusion of articles.

Charting, collating and summarizing the data. Our fourth step was to organize and chart the data extracted from the articles in a shared spreadsheet that was securely hosted online. Details about publication information, study design and sample (where relevant) and data relevant to the scoping question were entered into this spreadsheet after each article was reviewed in full by both readers assigned to the article (see Appendix A for an example). We then held a series of team meetings to identify the overarching themes that emerged from the data in the spreadsheet. The lead author then reviewed the data and determined which of these themes best characterized the evidence. As Arksey and O’Malley contend, the identification of themes emerging from sources is an important part of the charting process for scoping reviews.¹⁶ Next, a meeting of all reviewers was held to seek confirmation on the interpretation of the themes. After this, the lead author colour-coded the information stored in the spreadsheet according to theme; this was done to visually confirm that the themes that had been identified adequately characterized most of the data. In

Table 2: Databases searched

Database type	Database	Time period covered
Academic	Academic Search Premier	1984 – 20 Aug. 2009
	AgeLine	1978 – 10 Aug. 2009
	BioMed Central	No recorded start date – 10 Aug. 2009
	Business Source Complete	No recorded start date – 20 Aug. 2009
	Canadian Research Index	1982 – 21 Jul. 2009
	CINAHL	1982 – 20 Jul. 2009
	CPI.Q	1988 – 22 Aug. 2009
	EconLit	1969 – 9 Aug. 2009
	GeoBase	1980 – 9 Aug. 2009
	CABI’s Global Health database	1973 – 10 Aug. 2009
	MEDLINE	1950 – 9 Aug. 2009
	PAIS International	1972 – 9 Aug. 2009
	PsycINFO	1887 – 10 Aug. 2009
	CSA Sociological Abstracts	1963 – 20 Aug. 2009
	Web of Science	1900 – 10 Aug. 2009
Media	Alternative Press Index	1991 – 20 Jul. 2009
	CBCA Current Events	1982 – 21 Jul. 2009
	Canadian Newsstand	1985 – 22 Oct. 2009
	LexisNexis	No recorded start date – 22 Oct. 2009

CINAHL = the Cumulative Index to Nursing and Allied Health Literature, CPI.Q = the Canadian Periodical Index

our final step, the review team members worked together to identify relevant knowledge gaps.

Results

Of the 348 identified articles, 113 were included in the scoping review (Fig. 1; a full list of the included articles can be obtained from the lead author). Included articles were published between 1995 and 2009 and consisted of 22 academic articles, 1 unpublished report, 12 articles in medical-sector or business-oriented magazines and 78 articles in the popular media. The academic articles included 6 essays/analyses, 1 qualitative analysis of a survey, 5 editorials/commentaries, 2 case studies, 6 reviews and 2 industry reports. Only 2 of the 113 articles presented original primary data: one was an academic article that presented data from a qualitative survey from an academic source¹⁷ and the other was a media report on the results of a public opinion poll.¹⁸ Even though the included articles yielded information on the Canadian experience of MT, their focus was not necessarily on Canada. Other countries involved in MT were also discussed in the articles, namely India (43 mentions), the United States (43 mentions), the United Kingdom (11 mentions), Thailand (13 mentions), Cuba (9 mentions), Singapore (9 mentions), Australia (4 mentions), Costa Rica (3 mentions), Malaysia (3 mentions), Mexico (3 mentions), the Philippines (3 mentions), South Africa (3 mentions), Germany (2 mentions), Israel (2 mentions), Japan (2 mentions), New Zealand (2 mentions), Russia (2 mentions), Turkey (2 mentions) and 22 other countries (1 mention each).

Four overall themes emerged: (1) drivers of and constraints on Canadian patients' involvement in MT, (2) factors that are increasing MT awareness in Canada, (3) drivers of and constraints on the expansion of MT in Canada and (4) coverage of MT by medicare (Table 3). In the following description of the results, quotations from some of the articles have been included to illustrate the findings of the review.

Drivers of and constraints on patients' involvement. Drivers of Canadian patients' involvement in MT abroad included reduced wait times and increased treatment options.^{10–12,19–24} Constraints included concerns about the cost and quality of care abroad. Three commentaries and essays in peer-reviewed journals identified wait times as a driver of involvement in MT, and 8 media articles discussed the cost and quality of care as a constraint. Six media articles discussed increased treatment options abroad as a driver of involvement; this topic was not mentioned in academic articles.

The most commonly cited motivation for Canadians to engage in MT is to reduce waiting time for medical

care.^{10–12,19,20} According to some commentators, wait lists for hip replacements can stretch to as long as 1 year in Canada, whereas patients with the financial resources to pay for this procedure can have it done immediately in countries such as India and Thailand.²⁵ One media report indicated that being able to circumvent the Canadian wait lists for certain operations, such as hip replacements, makes MT very enticing.² Wait times associated with health conditions that leave patients in chronic pain were cited as particularly likely to motivate Canadian patients to travel for care.²⁶ Some Canadian physicians quoted in a media article believe that wait times for medical services will increase with the aging of the baby boom generation, leading to increased interest in MT.²⁷

A less frequently cited driver of MT is the availability of more treatment options abroad; some procedures or treatments are not available domestically because they have not been approved in Canada or there are no specialists available in Canada to administer them.^{21–24} For example, Canadians may be driven abroad to access experimental treatments using new technologies such as stem cell transplantation, leading to what has been called stem cell tourism.²⁸ Proximity to destination nations and ease of travel are also less frequently cited factors motivating Canadian medical tourists to go abroad.²⁹

As MT can involve significant out-of-pocket expenses, Canadians who were considering going or had

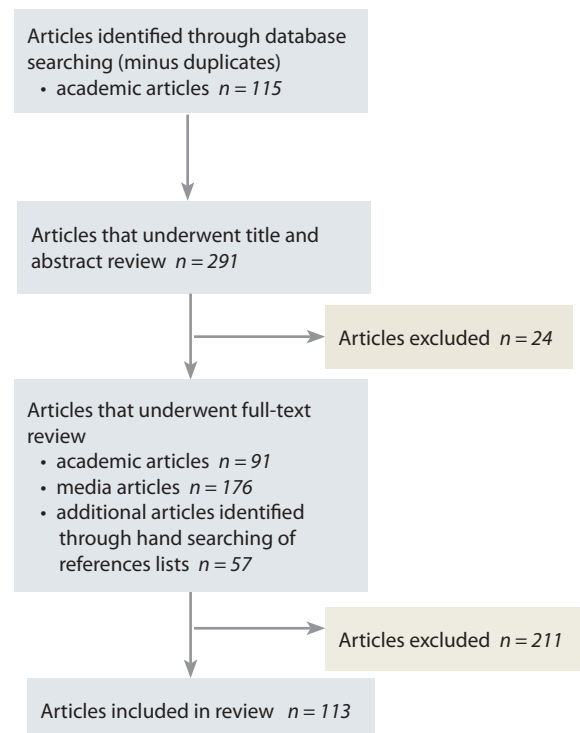


Figure 1: Selection of study sample

decided to go abroad for care commonly cited cost as an enabling or constraining factor in their decision making.^{11,20,30,31} One medical tourist, for example, reported finding the cost for back surgery in the United States to be too high at US\$55 000. She sought out the same surgery in Bangalore, India, for the price of Can\$12 000, which included flights, tests, room and board.¹⁰ In some cases patients were able to stay longer in hospitals abroad because of the lower expense of care, thus improving their experience.³² The lower labour costs in low- and middle-income countries, in particular, can potentially lead to better service in hospitals in these countries and lower patient-to-caregiver ratios than Canadian patients may be accustomed to.³³ Because of the affordability of MT and the growing affluence of some Canadians, international travel for care may become more possible and desirable.³⁴ Even for relatively wealthy Canadians, however, the costs of treatments abroad will remain a factor in their decision-making if their expenses are not reimbursed by Canadian medicare.

A chief constraint on Canadian patients' involvement in MT is concern about the quality of care offered abroad, particularly in low- and middle-income countries.^{35,36} For example, a media report quoted a Canadian patient as saying that when he announced that he was planning to seek surgery in India, his family had said, "You are out of your mind. You are going to die there all alone in a hovel."²² Such perceptions no doubt dissuade some potential medical tourists from travelling to less developed countries for care or encourage them to pay

more for care in more economically developed countries. Canadian medical tourists are particularly attracted to seeing physicians abroad who trained in countries with advanced, high-quality health systems under the assumption that this training will ensure they receive care comparable to the care they would have received in Canada.^{37,38} A perception that the quality of care and service in destination hospitals is as good as or superior to Canadian care and service also encouraged Canadians to go abroad for care.³⁹ Accreditation of MT hospitals in low- and middle-income countries has also been cited as helping to reassure patients about the quality of care in facilities in these countries.⁴⁰

Factors that are increasing awareness of medical tourism. The most commonly cited source of awareness of MT was facilitation companies, which specialize in making bookings for international patient travel and procedures. These companies were discussed in 3 academic articles, 1 business magazine article and many media reports. As other sources of increased awareness were cited in media reports only, their influence is less clear than that of the facilitators.

Several articles claimed that there are between 9 and 20 facilitation companies operating at present in Canada and that the number is growing.^{11,41-44} Some facilitators advertise to raise awareness of their services and of MT more generally.⁴² These advertisements include marketing materials mailed to interested parties and pricing quotes.^{20,45} Facilitators report receiving an increasing

number of enquiries from potential Canadian customers.^{46,47} For example, a single facilitator claimed to receive 2500 enquiries in 2006 alone regarding cardiac and joint-replacement surgery.¹⁰ Another reported fielding 2000 enquiries in the first 2 months of operation.⁴⁸ Such claims have been disputed, with other facilitators reporting more modest numbers of patient enquiries (7 or 8 per month, or fewer).^{49,50} Proportionally fewer medical tourists were reported to come from Ontario than from British Columbia.⁵¹

Countries and hospitals selling MT services have hosted seminars and conferences in Canada.⁵² Hospitals in other countries have also advertised in Canada.^{39,53} It is said that negative messages about Canada's

Table 3: Summary of terms

Theme	Issues discussed in included articles
Drivers of Canadian patient involvement in medical tourism	<ul style="list-style-type: none"> • Wait times for treatment • Increased treatment options • Proximity to health care sites
Constraints on Canadian patient involvement in medical tourism	<ul style="list-style-type: none"> • Concerns about costs of health care abroad • Concerns about quality of health care abroad
Factors that are increasing Canadians' awareness of medical tourism	<ul style="list-style-type: none"> • Contact with facilitation companies • Attendance at seminars, conferences • Contact with advertising • Negative perceptions of Canadian health care • Contact with foreign-born or -trained physicians • Expanded air routes
Drivers of the expansion of medical tourism in Canada	<ul style="list-style-type: none"> • Familiarity of US citizens with accessing health care in Canada • Cost of Canadian health care
Constraints on the expansion of medical tourism in Canada	<ul style="list-style-type: none"> • Non-harmonization of North American health care systems • Cost of Canadian health care
Coverage or reimbursement of medical tourism by medicare	<ul style="list-style-type: none"> • Medicare reimbursement in isolated cases • Lobbying for increased medicare coverage • Links with debates about privatization

health care, in news reports and documentaries, also prompt Canadians to look into going abroad for care.⁵⁴ The exposure of Canadian patients to foreign-born and foreign-trained physicians working in Canada also serves as an indirect advertisement for MT: treatment in foreign countries is seen as less frightening or exotic and more possible to some patients.^{55,56} The expansion in the number of direct air routes to MT destinations (sometimes with the explicit purpose of encouraging MT) may help to familiarize Canadians with destination countries and their health services.²⁹

Drivers of and constraints on the expansion of medical tourism in Canada. Canada has been discussed as a potential destination for medical tourists in both academic and media articles. Unlike the themes examined earlier, this theme was discussed in an equal number of academic and media articles (8 of each), but most of this discussion was speculative. The articles discussed many obstacles to Canadian expansion into the provision of care for medical tourists in addition to the advantages of hosting medical tourists from abroad.

Some Canadians have explored direct investment in MT hospitals abroad,⁵⁷ but Canadian involvement in MT was almost exclusively discussed in terms of hosting international patients. Some private business groups and government agencies have attempted to establish Canada as a destination for medical tourists.^{4-6,13} Brian Day, a former president of the Canadian Medical Association and proponent of the privatization of Canadian health care, has argued that MT “could be one of Canada’s biggest industries.”⁵⁸

Limits on health services trade were cited as a constraint on the expansion of MT in Canada.^{27,59} The cost of medical care in Canada may also limit this country’s potential to become a large-scale provider of care for medical tourists.⁵¹ There is disagreement on this issue, however, as the cost of care has also been cited as strengthening Canada’s appeal as a MT destination.⁶⁰ If Canadian prices for medical services become close to those in low- and middle-income countries, then the advantages of obtaining health care in Canada may offset the slightly higher costs in this country. Some US residents already travel to Canada to fill drug prescriptions, demonstrating the perception of Canada as a desirable destination.⁶¹ If more medical services become available privately in Canada, this change may spur the development of the country as a destination for medical tourists.^{11,58}

In some cases, the geography and culture of specific Canadian provinces may serve to encourage MT. For

example, British Columbia’s coastal location, mild climate and ethnic mix may encourage MT from Asian countries.⁶² However, MT has been described as better suited for places such as Thailand and southern Mexico, which are associated with sandy beaches, rather than Canada’s cold climate.⁶³

Coverage by medicare. Canada’s medicare grants Canadian citizens and permanent residents access to medically necessary services. Reimbursement of MT through medicare has been limited thus far, although lobbying is taking place for increased coverage. All but 2 of the articles discussing this issue were media reports, indicating that medicare coverage of MT is the subject of ongoing domestic political debate.

Medical expenses incurred abroad are typically reimbursed by medicare only if the care is necessary and unavailable in Canada and approval is granted before the patient leaves the country.⁶⁴ For these reasons, there is uncertainty as to whether medical tourists can and will be reimbursed by provincial health insurance plans for the costs of the care they receive abroad.^{10,28,35,65} There has been significant lobbying of federal and provincial politicians and health care administrators to expand medicare coverage of MT.^{55,60,65,66} In one case, the provincial government in Alberta fully reimbursed a Canadian medical tourist, Aruna Thurairajan, who went to India for spinal surgery.^{10,64} However, a class action lawsuit that sought to force Alberta to reimburse patients seeking medical treatment abroad was unsuccessful.³¹ Some Canadians have reported being reimbursed, at least in part, for the costs of MT,^{28,67} whereas others have been denied reimbursement.⁶⁸ Arguments for the expansion of medicare payments for MT are repeatedly tied to wider debates about the privatization of medical care in Canada and the wait times faced by some Canadian patients.^{12,58,60}

Discussion

This scoping review has revealed the complex nature of the MT industry and the diversity of the responses of Canadians to MT. It has also revealed that discussions of MT in the Canadian context are characterized more by conjecture than by data. Despite the wide variety of views on MT that were observed, there are few statistics available on Canadians’ involvement in MT.¹⁰ Although a wide range of anecdotal evidence charting the motivations of Canadians’ participation in MT is available, there is a lack of robust research from credible academic sources analyzing the factors motivating patients to travel abroad for medical services. The international

literature consistently suggests that avoiding having to wait for care is probably a dominant motivator for Canadian medical tourists, but no studies actually demonstrate this to be the case. Reflecting this lack of data, the discussion of the effect of wait times on motivation for MT took place exclusively in commentaries and media reports. Similarly, the discussion of cost and proximity of the destination as motivators of MT also took place entirely in commentaries and media reports, and thus the influence of these factors on Canadian medical tourists' decision making cannot be quantified.

The level of investment by Canadians and others in the domestic MT industry is not clear. Discussion of this issue was evenly divided between academic and media articles, but it tended to focus on the degree to which a push into MT would encourage privatization rather than providing measures of actual levels of investment.

We recorded cases of Canadians seeking medicare reimbursement for MT expenses, along with reports of lobbying efforts to allow for reimbursement. These reports were exclusively in academic commentaries and media reports and were based on anecdotes rather than systematic survey data. Thus, the level of support for medicare reimbursement of MT by the Canadian public is not clear. Moreover, we do not know how many Canadians have sought medicare reimbursement for MT, how many medical tourists were dissuaded from attempting to be reimbursed, nor how many Canadians have been dissuaded from participating in MT given inconsistencies in reimbursement for care accessed abroad.

For Canadians, domestic facilitators and international hospitals are thought to be key conduits of information about MT. We do not know, however, how many Canadians are aware of MT as a treatment option, how Canadian patients learn of MT, how they choose specific destinations, nor how or why they become comfortable with the prospect of going abroad for care. Information on Canadian decision making was located both in academic and media sources but it was entirely anecdotal. Moreover, reliable data on the numbers of Canadians engaging in MT were not provided.

Limitations. This review has 3 primary limitations. First, 80% of the articles used in this review were from media sources, including business and industry magazines, popular-press magazines and newspapers. We did not aim to measure the quality of the articles used in this review, which is a limitation inherent in the scoping review process. Moreover, many of the media reports and academic commentaries were anecdotal in nature and failed to give a valid and broad assessment of the

Canadian experience of MT. Nonetheless, these articles have been useful in determining patterns of perceived experiences within Canada and in identifying knowledge gaps, and thus their inclusion in this review is important.

Second, only English-language articles were included in the review. The large volume of English-language sources reviewed indicates a very active discussion in this language. Nonetheless, as Canada is a bilingual nation, it is possible that the exclusion of French sources precluded representation of a distinctly French-Canadian perspective on MT. Moreover, it is possible that articles in languages other than English and French have been published that discuss the Canadian experience of MT in the international literature, although few articles in other languages were cited in the reviewed articles.

Third, differing definitions of MT complicated the production of this review. As we have defined it, MT is patients' intentional travel abroad for non-emergency medical services. MT is thought to be distinct from ongoing cross-border care arrangements and raises distinct issues. For this reason any articles that clearly focused exclusively on cross-border care were excluded from this review.

Conclusion

The intent of this scoping review was to synthesize what is known about Canadian involvement in MT and identify gaps in our knowledge about Canadian involvement in MT. The most commonly cited motivation for Canadian involvement in MT was to reduce waiting time for medical care. Other factors, such as cost, enhancing treatment options and the quality of care offered abroad were also noted. In terms of broader Canadian involvement in MT, the review showed that some private business groups and government agencies have sought to establish Canada as a destination for MT.

Importantly, the review has revealed a number of pressing knowledge gaps that must be addressed if informed decision making on MT is to take place: the number of Canadians engaging in MT is not known, and the type of procedures they are seeking and the reasons they are pursuing care abroad are not known. Similar knowledge gaps have been identified in other countries.^{15,69} In Canada, there has been a lack of consultation with patients who have gone abroad as medical tourists and with other stakeholders in the industry. Little is known about the level of investment in MT ventures by Canadians and non-Canadians alike. The results of this review make it clear that research is needed to provide concrete evidence regarding the use of MT by Canadians and the potential for Canada to be a MT destination.

Contributors: All authors took part in the scoping review thematic analysis of the data. Jeremy Snyder drafted the findings and discussion sections, Valorie A. Crooks drafted the methods section, Rory Johnston drafted the introduction, and Paul Kingsbury drafted the conclusion and abstract. All authors read and revised a full draft of the manuscript.

REFERENCES

1. Yelaja P. India offers surgery in a hurry. *Toronto Star* 2006 Jun 17;Sect. A:1.
2. City resident opts for hip surgery overseas. *Burnaby Now* 2008 May 17;Sect. 5.
3. Laidlaw S. Global health care on its way. *Toronto Star* 2008 May 31;Sect. L:1
4. Cortez N. Patient without borders: the emerging global market for patients and the evolution of modern health care. *Indiana Law J* 2008; 83:71–131.
5. Horowitz MD, Rosensweig JA, Jones CA. Medical tourism: globalization of the healthcare marketplace. *MedGenMed* 2007;9(4):33–42.
6. Priest L. Ontario MDs to launch medical tourism firm. *Globe and Mail* 2008 Sept 30; Sect. A:3.
7. Day B. Health versus wealth: Patients get pulled both ways. *Globe and Mail* 2009 Jul 31; Sect. S:3.
8. Ehrbeck T, Guevara C, Mango PD. Mapping the market for medical travel. *McKinsey Quarterly* 2008 May. Available from: www.mckinseyquarterly.com/Mapping_the_market_for_travel_2134
9. Crooks VA, Kingsbury P, Snyder J, Johnston R. What is known about the patient's experience of medical tourism? A scoping review. *BMC Health Serv Res* 2010;10:266.
10. Eggertson L. Wait-list weary Canadians seek treatment abroad. *CMAJ* 2006;174(9):1247.
11. Law J. Sun, sand and stitches. *Profit* 2008;27(2):69–70.
12. Ward D. Long wait times drive Canadians overseas for medical treatment; B.C. dentist books a passage to India for his hip operation. *Edmonton Journal* 2007 Oct 28;Sect. A:2.
13. Jenkinson M. Get ready for medical tourism. *Alberta Report* 1996;23(16):9.
14. Hopkins L, Labonté R, Runnels V, Packer, C. Medical tourism today: what is the state of existing knowledge? *J Public Health Policy* 2010;31(2):185–198.
15. Carrera P, Lunt N. A European perspective on medical tourism: The need for a knowledge base. *Int J Health Serv* 2010;40(3):469–484.
16. Arksey H, O'Malley L. Scoping studies: towards a methodological framework. *Int J Soc Res Methodol.* 2003;8(1):19–32.
17. Conner-Spady BL, Johnston GH, Sanmartin C, McGurran JJ, Noseworthy T; Saskatchewan Surgical Care Network/Western Canada Waiting List Project Research and Evaluation Working Group Committee. A bird can't fly on one wing: patient views on waiting for hip and knee replacement surgery. *Health Expect* 2007;10(2):108–116.
18. Loriggio P. 43% of Ontarians would travel for fast care. *Toronto Star* 2008 Aug 23;Sect. A7.
19. Johnston C. US ad uses lure of prompt treatment to entice Canadians needing joint replacement. *CMAJ* 1996;154(7):1071–1072.
20. Korcok M. Excess demand meets excess supply as referral companies link Canadian patients, US hospitals. *CMAJ* 1997;157(6):767–770.
21. Brown D. Around the world to a better back; Canadian doctors told Eric Slone he'd have to get used to pain; he found help in India. *Ottawa Citizen* 2008 Jul 14;Sect. B:1.
22. Skerritt J. A chance to jump wait list: Medical tourism service to offer surgery for cash in India, Cuba. *Winnipeg Free Press* 2007 Feb 26; Sect. A:1.
23. Milstein A, Smith M. America's new refugees—seeking affordable surgery offshore. *N Engl J Med* 2006;355(16):1637–1640.
24. New Zealand's Medtral offers affordable alternative to Western Canadians seeking out-of-country health care. *Canada News-Wire* 2008 Sep 3. Available from: www.newswire.ca/en/releases/archive/September2008/03/c8908.html
25. Connell J. Tummy tucks and the Taj Mahal? Medical tourism and the globalization of health care. In *Tourism Management: analysis, behaviour and strategy*. Ed. Woodside A, Martin D. Wallingford: CAB International; 2008. p 232–244.
26. Yelaja P. Foreigners flocking to Singapore for state-of-the-art medical care. *Toronto Star* 2007 Aug 11;Sect. A:1.
27. Shimo A. New hot spots for surgery. *Maclean's* 2007 Jun 11;120(22):44.
28. Patriquin M. A vacation that'll have you drooling. *Maclean's* 2007 Apr 2;120(12):68.
29. Francis D. See the Taj Mahal, have some surgery; Comment. *National Post* 2007 May 5;Sect. F:2.
30. McMurdy D. Vanity takes a vacation. *National Post* 2007 Jan 20;Sect. FW:2.
31. Nesdoly T. Got a few days off? Get a facelift. *Toronto Star* 2008 Dec 20;Sect. L:1.
32. Kusch L. Surgery in Canada marketed to U.S. patients. *Winnipeg Free Press* 2007 Dec 6; Sect. B:5.
33. Starnes R. Canadian "medical tourists" flock to Third World facilities: bargain operations. *National Post* 2004 Aug 28;Sect. A:12.
34. Constantineau B. Burnaby medical tourism firm expands to Seattle. *Vancouver Sun* 2008 Jul 4;Sect. F:4.
35. Kirby J. Getting a knee up: India is becoming a destination for quick, inexpensive medical treatment. *National Post* 2005; Sect. A:1.
36. Jenner EA. Unsettled borders of care: medical tourism as a new dimension in America's health care crisis. *Res Sociol Health Care* 2008;26:235–249.
37. Herrick D. Medical Tourism: global competition in health care. NCPA Policy Report No. 304. Dallas (TX): *National Center for Policy Analysis*; 2007.
38. Mitchell R. The medical tourism boom. *Pharmaceutical Executive* 2007;27(2):S13.
39. Demicco FJ. Medical tourism growing worldwide. *UDaily* (University of Delaware). 2005 Jul 25. Available from: www.udel.edu/PR/UDaily/2005/mar/tourismo72505.html.
40. Turner L. Medical tourism: family medicine and international health-related travel. *Can Fam Phys* 2007;10(53):1639–1641.
41. Turner L. "First world health care at third world prices": globalization, bioethics and medical tourism. *Biosocieties* 2007;2(3):303–325.
42. Nachammai R. Medical travel agency lifts off. *The Gazette* [Montréal]. 2006 May 20; Sect. A:1.
43. Cayo D. Let foreign medical professionals get to work. *Vancouver Sun*. 2007 Feb 2;Sect. E:3.
44. MacQueen K. Ah, Cuba: sun, cigars and hip replacements. *Maclean's*. 2007 Sept 3; p. 30.
45. Ford A. ORs with no waiting: Head-of-the-line operations in Asia. *The Province* [Vancouver]. 2005 Jun 15;Sect. A:31.
46. Maude J. Have ailment, will travel. *Canadian Business* 2006 Jun 19;79(13):68.

47. Thomson B. (Host). *Canada AM*. More Canadians travelling abroad for medical care. CTV Television Inc. 2007 Apr 16.
48. Candidates weigh in on “medical tourism.” *Burnaby Now*. 2005 Dec 21;Sect. 3.
49. French J. Vancouver firm offers medical vacations: Patients pay for overseas surgeries. *Star Phoenix* [Saskatoon]. 2006 Feb 16;Sect.A:9.
50. Ruttan S. Health travel brokers offer a quick(er) fix. *Edmonton Journal* 2005 Aug 28;Sect. A2.
51. Singapore hospitals lure Calgary patients with lower fees, sight-seeing. *CBC News*. 2008 Sept 29. Available from: www.cbc.ca/canada/calgary/story/2008/09/29/singapore-medical-tourism.html.
52. Kyle A. Go to India, see the sights and get your hip replaced. *Leader Post* [Regina] 2004 Nov 17;Sect. A:1.
53. McGinn D. Sun, sand and surgery. *Globe and Mail*. 2008 Jan 23;Sect.T:1.
54. Klaus M. Outsourcing vital operations: What if U.S. health care costs drive patients overseas for surgery? *Quinnipiac Health Law J* 2005;9:219–247.
55. Murphy T. Health insurers explore savings in overseas care. *Associated Press* 2009 Aug 23. Available from: www.thestreet.com/story/10588321/1/health-insurers-explore-savings-in-overseas-care.html
56. Britnell A. Private health care. *Profit* 2005;24(6):29.
57. Timmermans K. Developing countries and trade in health services: which way is forward? *Int J Health Serv* 2004;34(3):453–466.
58. Prashad S. The world is your hospital. *Canadian Business* 2008 Aug 18; 81:62–66.
59. Ramirez de Arellano AB. Patients without borders: the emergence of medical tourism. *Int J Health Serv* 2007;37(1):193–198.
60. Starnes R. Frustrated by waiting lists, Canadians help fuel medical tourism boom abroad. *CanWest News* 2004 Aug 28; Sect. 1.
61. Skye K. Mater Mis development leaps hurdle. *Trail Daily Times* (Trail, BC). 2006 Jul 26; Sect.1.
62. Mudur G. Hospitals in India woo foreign patients. *BMJ* 2004;328(7452):1338.
63. CBC News. Medical tourism: Need surgery, will travel. 2004 Jun 18. Available from: www.cbc.ca/news/background/healthcare/medicaltourism.html.
64. Ravensbergen J. Medicare asked to pay for Cuban surgery; Non-profit group refers patients for care when they can't get operations here. *The Gazette* [Montréal]. 2007 Jun 21;Sect.A:6.
65. Fayerman P. Provinces asked to pay for fast, cheap surgery in Asia. *CanWest News* 2005 Jun 29; Sect. 1.
66. Set our patients free. *National Post* 2006 Sep 18;Sect. A:14.
67. Sen Gupta A. Medical tourism in India: winners and losers. *Indian J Med Ethics* 2008;5:4.
68. Gibson J. Sutures in the sunshine. *Calgary Herald* 2005 Jul 2; Sect.H:1.
69. Johnston R, Crooks VA, Snyder J, Kingsbury P. What is known about the effects of medical tourism in destination and departure countries? A scoping review. *Int J Equity Health* 2010;9:24.

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Appendix A: Sample spreadsheet entry

Title	A bird can't fly on one wing
Journal	Health Expectations
Authors	Connor-Spady et al.
Year	2007
Type of study	Qualitative: open-ended survey
Country	Canada
Analysis	Content analysis
Sample	432 patients who had had hip or knee surgery in Saskatchewan 3–12 months before the study
Canadian content	<ul style="list-style-type: none"> • “Canadians have identified long waits as the primary barrier to specialized services.” • The majority of respondents to the survey felt their wait was acceptable and they were treated fairly. • Approximately 80% agreed priority should be given to those in more pain or trouble than themselves. • “If given a choice of going to another orthopedic surgeon with a shorter waiting time, 68% would not consider changing their surgeon, 15% would and 17% were uncertain.” • “For those who would not change their surgeon, the most common reasons were satisfaction with their surgeon and surgery, confidence and trust in their surgeon, competence and skill of the surgeon, and the bedside manner of their surgeon.” • “For those who would change their surgeon, it was usually because of unbearable pain. For those patients who were not sure, their answers were conditional on the amount of pain, the length of their waiting time and on a recommendation from their family doctor.” • Only 5% of respondents used the theme of taking one's turn as justification for their wait. • “How long patients expected to wait can be interpreted as an anticipated outcome, based on what they actually believe will happen, likely conditioned by the environment in which they wait. Patients described the source of these expectations as their surgeon, reported experiences from other people and a general belief that patients wait a long time for surgery.”
