

BMJ Open Pharmacist direct dispensing of mifepristone for medication abortion in Canada: a survey of community pharmacists

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ABSTRACT

Introduction Pharmacists were acknowledged as the most appropriate healthcare professional to dispense mifepristone for medication abortion shortly after the prescription therapy became available in January 2017 in Canada.

Objective We aimed to identify the facilitators and barriers for successful initiation and ongoing dispensing of mifepristone among community pharmacists across Canada.

Study design We surveyed community pharmacists from urban/rural practice settings across Canada by recruiting from January 2017 to January 2019 through pharmacist organisations, professional networks, at mifepristone training courses and at professional conferences. The Diffusion of Innovations theory informed the study design, thematic analysis and interpretation of findings. We summarised categorical data using counts and proportions, χ^2 tests, Wilcoxon rank-sum and proportional odds logistic regression.

Results Of the 433 responses from dispensing community pharmacists across 10/13 Canadian provinces and territories, 93.1% indicated they were willing and ready to dispense mifepristone. Key facilitators were access to a private consultation setting (91.4%), the motivation to increase accessibility for patients (87.5%) and to reduce pressure on the healthcare system (75.3%). The cost of the mifepristone/misoprostol product was an initial barrier, subsequently resolved by universal government subsidy. A few pharmacists mentioned liability, lack of prescribers or inadequate stock as barriers.

Conclusions Pharmacist respondents from across Canada reported being able and willing to dispense mifepristone and rarely mentioned barriers to stocking/dispensing the medication in the community pharmacy setting. The removal of initial regulatory obstacles to directly dispense mifepristone to patients facilitated the provision of medication abortion in the primary care setting.

INTRODUCTION

Abortion is a safe and common procedure in Canada, with 83 576 abortions reported in 2019.¹ Mifegymiso (mifepristone 200 mg and misoprostol 800 µg) became available in Canada in January 2017² for medication

STRENGTHS AND LIMITATIONS OF THIS STUDY

- ⇒ Participants from all areas of the country.
- ⇒ Participants from urban and rural communities.
- ⇒ Participants from diverse settings.
- ⇒ Not able to determine response rate as we are unable to determine the number of pharmacists aware of the opportunity to participate in this study.
- ⇒ Data from 2019 is not reflective of pandemic-associated service changes.

abortion.³ With 96% of abortions performed surgically in Canada prior to the introduction of mifepristone,⁴ the patients had often been required to travel long distances to access this essential service.⁵ The United Nations Human Rights Commissioner's November 2016 Report of the Committee on Elimination of Discrimination Against Women called on Canada to improve access to abortion in all provinces and territories.⁶

Initially the federal drug regulator, Health Canada, specified that prescribing physicians must dispense the medication directly to the patient. This regulatory requirement bypassed professional pharmacy standards that ensure safe dispensing practices and comprehensive pharmacist–patient counselling.⁷ Health Canada's removal of regulatory restrictions within the first year enabled ordering and distribution to pharmacies through their usual mechanisms.^{3,8} Community pharmacists could then dispense mifepristone directly to patients presenting a prescription, consistent with professional practice for the dispensing of other prescription medications.^{3,8}

Pharmacists are drug experts. Pharmacist dispensing of mifepristone has the potential to increase access to early abortion care with no increased risk to patients.⁹ We aimed to identify the facilitators and barriers for successful initiation and ongoing

provision of mifepristone among Canadian community pharmacists.

METHODS

This research represents the baseline survey results of a cross-sectional study assessing the perspectives of community pharmacists when initiating mifepristone dispensing in various practice settings during the first 24 months of availability in Canada (January 2017 to January 2019).¹⁰ This research is a component of our larger observational mixed-methods programme of research, the Contraception and Abortion Research Team Mifepristone Implementation Study¹⁰ that also investigated perspectives of physicians and policymakers.^{8 11–13}

We conducted a mixed-methods observational design assessing survey results from urban and rural community pharmacists across Canada. Data were stored securely on a REDCap (Research Electronic Data Capture) platform.¹⁴ A prize honorarium was randomly drawn from among those who completed the survey. Participation was voluntary and participants provided informed consent prior to accessing the survey. Participants were able to review and change their answers prior to submitting the survey.

Survey development

Our survey question design combined two theories to explain adoption and diffusion of innovation in service organisations and healthcare: Roger's theory of the Diffusion of Innovation¹⁵ and Godin's framework.¹⁶ We describe the theoretical contribution to the survey development in detail in our protocol paper.¹⁰ Briefly, combining these two models aims to bridge the gap between practice and policy by articulating key components in services implementation, including characteristics of innovation and system readiness, change agents, methods of diffusion and dissemination and outer context.¹⁷ Questions were adapted from field tested questions in our study of pharmacist willingness to implement contraception dispensing innovations.^{18 19} We pilot tested the instrument with three pharmacy educators and three experienced community pharmacists practicing in diverse settings. Survey questions assessed the readiness to adopt an innovation, mifepristone dispensing and availability in community pharmacies, as well as pharmacist knowledge, perspectives and experiences with mifepristone use, and the needs of the community served (online supplemental appendix 1).

Patient and public involvement statement

Due to the sensitive topic this project engaged with advocacy organisations and patient representative organisations, but that no patients were directly involved in the project. Further, as this project was a survey among pharmacists, several pharmacists were engaged from the question development through the methodology analysis and interpretation of results.

Recruitment

Canadian pharmacists were invited electronically to participate in our survey beginning in mid-January 2017, following their successful completion of the accredited multidisciplinary Medical Abortion Training Program hosted by the Society of Obstetricians and Gynaecologists of Canada (SOGC), and from May 2017 when this course was no longer required, any interested pharmacists were invited. For the purpose of this study, we included all responding pharmacists who self-identified as working as a dispensing community pharmacist, including pharmacists working in an outpatient hospital pharmacy. Data were collected over 24 months (17 January 2017 to 16 January 2019). We defined urban settings using the definition of Statistics Canada²⁰ for census metropolitan areas and all other locations as rural. Urban versus rural status was determined using the pharmacy's postal code.

Statistical analysis

As participants provided their email address to be invited for the follow-up survey, duplicate entries were identified and removed. We summarised categorical data using counts and proportions and used χ^2 tests to assess the impact of sex and pharmacy location (urban or rural) on willingness to dispense mifepristone. We used a Wilcoxon rank-sum test to compare demographic parameters between participants who were willing and unwilling to dispense mifepristone. To evaluate the relationship between barriers and facilitators obtained from Likert-test style answers and demographic parameters, we conducted a proportional odds logistic regression. As questions were independent of one another, we included partial responses in our analysis. We performed all data analysis using Stata V.15 (StataCorp, College Station, Texas, USA).

For our single open-ended question, 'Please explain your main motivation to undertake training in the provision of medical abortion', we conducted an inductive thematic analysis informed by a constructivist, reflexive approach.^{21 22} We (EZZ and JAS) familiarised ourselves with participants' responses prior to one author (EZZ) copying answers verbatim into NVivo V.12 (QSR International) for analysis. Data interpretation was discussed by all authors and together we refined the themes until we reached consensus. The analysis included: (1) initial open coding, in which we attributed a code to each response that captured its main concept; (2) focused coding, in which codes were shortened and condensed, (3) selective coding, which resulted in a list of themes and categories and (4) identifying patterns across the data set.

RESULTS

Participant characteristics

We received 491 survey responses from Canadian pharmacists, of whom 433 self-identified as a dispensing community pharmacist. Our participation rate (ie, the number of participants who agreed to participate in the

study divided by the number of participants who opened the survey) was 92.0% and our completion rate was 82.0%. Demographic characteristics documented pharmacist representation from 10 among the 13 Canadian provinces and territories; these jurisdictions represent 98.3% of the Canadian population (table 1).²³ Almost half (n=205, 47.3%) of our participants practiced in a rural setting. Demographic characteristics were similar between urban and rural participants (table 2).

Current and future plans for offering clinical services by dispensing community pharmacists

The range of clinical services provided by dispensing community pharmacists are detailed in table 3. Within 12 months, 72.7% of participants selected the response that they were ‘planning to offer counselling on mifepristone/misoprostol medical abortion’ (table 3) and 85.4% indicated interest in being ‘one of the first to implement mifepristone as a new clinical service’ in their pharmacy (table 4). Only 1.4% of the pharmacists indicated they were unwilling to change their practice (table 4).

Experience with mifepristone and willingness to dispense

Of our participants, 167 (38.6%) indicated that they knew of other pharmacist(s) in their community who intend to dispense mifepristone and 93 (21.5%) knew of a healthcare provider who was planning to prescribe. Of those aware of mifepristone prescribers in their community, the mean number of prescribers estimated by pharmacists was 4.7 (SD 11.0). Ten participants (2.3%) indicated that, to their knowledge, there were no mifepristone prescribers in their community.

Most respondents (93.4% urban; 95.1% rural) indicated willingness to dispense mifepristone (table 2). For the 19 (4.4%) participants unwilling to dispense mifepristone, the number of years worked as a community pharmacist was a negative indicator ($(\chi^2, p): 90.3, 0.000$). No difference was seen in willingness to dispense mifepristone between pharmacists working in urban versus rural setting ($(\chi^2, p): 0.352, 0.553$). Among pharmacists unwilling to dispense mifepristone, sex, geographical location, pharmacy management or pharmacy ownership were not associated with this decision (data not shown in table).

Facilitators and barriers to the provision of mifepristone

Most participants (n=396, 91.4%), indicated that patient privacy was very important to the provision of mifepristone. Almost 80% of the pharmacists indicated they have a private counselling area in their pharmacy (table 3) and felt comfortable counselling patients in their current pharmacy setting. In addition, 379 pharmacists (87.5%) strongly supported the need for patients to have ready access to medication abortion and indicated that they were motivated to enhance patient access to abortion. Other facilitators included their belief that by dispensing mifepristone,

Table 1 Characteristics of dispensing community pharmacists (N=433)

Characteristic	
Age (mean, SD)	40.9 (11.1)
Years practicing as pharmacist (mean, SD)	14.6 (11.3)
Sex (n, %)	
Female	296 (68.8)
Male	133 (30.9)
Prefer not to say	<6
Province (n, %)	
British Columbia	74 (17.1)
Alberta	48 (11.1)
Saskatchewan	21 (4.8)
Manitoba	9 (2.1)
Ontario	165 (38.1)
Quebec	<6
New Brunswick	22 (5.1)
Nova Scotia	59 (13.6)
Prince Edward Island	<6
Yukon	<6
Not specified	30 (6.9)
Pharmacy setting (n, %)	
Urban	198 (45.7)
Rural	205 (47.3)
Not specified	30 (6.9)
Employment status (n, %)	
Full-time	242 (55.9)
Part-time	66 (15.2)
Floater	26 (6.0)
Resident	<6
Manager	126 (29.1)
Owner	59 (13.6)
Hospital	8 (1.8)
Education (n, %)	
BScPharm	394 (91.0)
E2P PharmD	19 (4.4)
Community residency	<6
Hospital residency	12 (2.8)
Graduate degree	34 (7.8)
Additional certification (n, %)	
Cardiopulmonary resuscitation	229 (52.9)
Certified anti-coagulation provider	8 (1.8)
Certified asthma educator	8 (1.8)
Certified diabetes educator	49 (11.3)
Certified respiratory educator	13 (3.0)
First aid	406 (93.8)
Immunisation	377 (87.1)
None	14 (3.2)

BScPharm, Bachelor of Science in Pharmacy; n, number; E2P Pharm.D, Entry to Practice Doctor of Pharmacy.



Table 2 Participant demographics by community pharmacy setting (N=433)

	Age; mean (SD)	Sex; n (%)	Years as pharmacist; mean (SD)	Willing to dispense mifepristone; n (%)	Province (n)									
					BC	AB	SK	MB	ON	QC	NB	NS	PE	Yukon
Urban (n=198)	40.6 (0.8)	Male: 69 (34.8) Female: 127 (64.1) Did not specify: 2 (1.0)	13.9 (0.8)	185 (93.4)	32	22	12	8	96	<6	10	17	0	0
Rural (n=205)	41.1 (0.8)	Male: 60 (29.3) Female: 145 (70.7)	14.9 (0.8)	195 (95.1)	42	26	9	<6	69	0	12	42	<6	<6

AB, Alberta; BC, British Columbia; MB, Manitoba; NB, New Brunswick; NS, Nova Scotia; ON, Ontario; PE, Prince Edward Island; QC, Quebec; SK, Saskatchewan.

pharmacists would assist in reducing pressure on the healthcare system (n=326, 75.3%). Most pharmacists agreed that this new clinical practice had the potential to enhance collaboration between pharmacists and other healthcare team members (n=322, 74.4%) and would increase their job satisfaction (n=256, 59.1%). Pharmacists (n=268, 61.9%) also indicated that mifepristone dispensing can easily fit into their daily dispensing activities.

Responding pharmacists reported some barriers to mifepristone provision. Those considered the most important were cost (n=132, 30.5%, nearly exclusively cited before universal subsidy), liability (n=79, 18.2%), lack of prescriptions (n=72, 16.6%), inadequate stock (n=68, 15.7%) and need for training (n=65, 15.0%). Only 26 (6.0%) participants reported resistance from the public as the most important barrier for dispensing mifepristone and only 24 (5.5%) reported resistance from pharmacy management. Working as a pharmacy owner was significantly associated with stating liability concerns (p=0.016), lack of prescriptions (p=0.003) or the need for additional training (p=0.046) as a barrier, while living in an urban compared with a rural setting was significantly associated with stating that a need for training (p=0.039) was a barrier. Sex of the pharmacist was not associated with any of the barriers (table 5).

Qualitative analysis

Most participants (n=381, 88.0%) responded to the open-ended question on their motivation to provide medication abortion. Our thematic analysis resulted in four themes: supporting the community through abortion access, meeting consumer demand through new business, supporting patients' choices and options and expanding pharmacists' scope of practice (online supplemental appendix 2).

Theme 1: supporting the community through abortion access

Pharmacist reasons to complete training included to enable them to offer the best level of care for their community and for the knowledge provided. Pharmacists discussed the importance of understanding the research literature related to the medications, as well as gaining insight into the effectiveness of the mifepristone/misoprostol protocol and ways to minimise potential adverse reactions. Pharmacists also described using this training to actively support and collaborate with mifepristone prescribers in their community, by being able to answer their questions, dispense the medications with counselling to their patients and lower patient burden at clinics and hospitals.

Theme 2: meeting consumer demand through new business

Pharmacists saw the business opportunity in dispensing mifepristone as one of the motivators for taking this training programme. Pharmacists mentioned healthcare prescribers and patients had asked questions about mifepristone and some had already received prescriptions. Pharmacists in rural areas believed that dispensing mifepristone will become a more common practice and they wished to be trained so

Table 3 Clinical services provided by dispensing community pharmacists (N=433)

Characteristic	n (%)			
Full-time pharmacists at the location, mean (SD)	2.4 (2.3)			
Community pharmacy setting:				
Banner (eg, I.D.A., Guardian, Pharmasave)	91 (21.0)			
Chain (eg, Lawtons, Pharma Plus)	80 (18.5)			
Department (eg, mass merchandise Wal-Mart, Safeway)	84 (19.4)			
Franchise (eg, Shoppers Drug Mart, Medicine Shoppe)	105 (24.2)			
Independent	56 (12.9)			
Other	13 (3.0)			
Missing	4 (0.9)			
Counselling services:				
Private counselling room	343 (79.2)			
Separate counselling area at the dispensary	145 (33.5)			
Counselling area at prescription drop-off area	100 (23.1)			
Counselling area at prescription pick-up area	177 (40.9)			
No designated counselling area(s) in the pharmacy	12 (2.8)			
	Currently offering	Planning to offer within the next 12 months	Currently not planning to offer	Did not respond
Counselling on emergency contraceptives	416 (96.1%)	<6	7 (1.6%)	<6
Counselling on continuous hormonal contraceptives	413 (95.3%)	<6	<6	9 (2.1%)
Counselling on pregnancy tests	388 (89.6%)	9 (2.1%)	23 (5.3%)	13 (3.0%)
Counselling on options for reproductive health	285 (65.8%)	32 (7.4%)	89 (20.5%)	27 (6.2%)
Counselling on methotrexate/misoprostol medical abortion	91 (21.0%)	164 (37.9%)	149 (34.4%)	29 (6.7%)
Counselling on mifepristone/misoprostol medical abortion	78 (11.1%)	315 (72.7%)	22 (5.1%)	18 (4.1%)
Medication reviews	409 (94.5%)	10 (2.3%)	9 (2.1%)	<6
Adaptations of prescriptions	406 (93.7%)	8 (1.8%)	12 (2.8%)	7 (1.6%)
Adaptations of prescriptions	336 (77.6%)	33 (7.6%)	42 (9.7%)	22 (5.1%)
Observation of administration of drugs (eg, methadone)	288 (66.5%)	16 (3.7%)	117 (27.0%)	12 (2.8%)
Therapeutic drug monitoring	222 (51.3%)	44 (10.2%)	144 (33.2%)	23 (5.3%)

they will be able to competently dispense the medication and support their community clinicians and patients.

Theme 3: supporting patients' choices and options

Pharmacists perceived that providing mifepristone medication abortion services for patients in their community is an important component of reproductive health. Pharmacists mentioned their desire to support and empower patients and enable their right to have options and alternatives to make a positive choice about their reproductive health by enhancing access to mifepristone for patients in their community.

Theme 4: expanding pharmacists' scope of practice

Pharmacists embraced the changing role of the profession and stressed the importance of expanding the pharmacist

scope of practice and ensuring that they proactively keep up-to-date with new medications. Pharmacists believe that it is important to embrace a new therapeutic expansion of practice and want to lead by example.

DISCUSSION

Our research found that pharmacists across Canada report active interest in dispensing mifepristone, are ready and trained to dispense mifepristone to their patients and have the infrastructure in place to ensure safe and private access to medication abortion counselling and prescriptions. A key facilitator reported was a pharmacy layout conducive to confidential interactions with patients. We found that most responding pharmacists felt mifepristone

**Table 4** Willingness of pharmacists to provide new clinical pharmacy services (N=433)

	Willingness to provide new clinical pharmacy services currently available in your province, n (%)	Willingness to provide mifepristone as a new clinical pharmacy service, n (%)
I am quick to adopt and willing to provide new pharmacy clinical ideas and initiatives and integrate them into my practice	344 (79.4%)	370 (85.4%)
I wait for my peers to try out new clinical services prior to adopting the service myself	61 (14.1%)	38 (8.8%)
I do not provide new clinical services unless it is required (eg, by corporate policies or to perform my job as a pharmacist)	18 (4.1%)	11 (2.5%)
I prefer not to change my practice	<6	6 (1.4%)
Did not respond	8 (1.8%)	8 (1.8%)

prescriptions can be readily incorporated into daily dispensing activities, were interested in promptly initiating mifepristone dispensing for medication abortion and willing to be one of the first to implement the new clinical service in their community. Pharmacists were strongly motivated by the belief that involvement in this new clinical practice has the potential to enhance inter-professional collaboration. While the out-of-pocket cost of the mifepristone/misoprostol product (approximately \$C300) was mentioned by our pharmacists as the most substantial barrier for individuals needing to access the medication, this was subsequently resolved with universal government subsidies for all provincial and territorial residents beginning with New Brunswick and Ontario in April 2017, with coverage and documentation in provincial databases gradually implemented by the various jurisdictions across the country by June 2019.²⁴ Our pharmacist participants also expressed concerns about intermittent stock shortages from the Canadian distributor; this was especially evident during the initial introductory phase between January 2017 and June 2017 when supplies were required to be ordered directly from the drug distributor. Once mifepristone became available through traditional pharmaceutical wholesalers, pharmacists were able to routinely order mifepristone with their other pharmaceutical stock purchases. A minority of pharmacists mentioned other barriers, citing concern about potential community resistance or liability.

A powerful facilitator for the rapid uptake and distribution of mifepristone for medical abortion by pharmacists across Canada was the positive experience beginning in British Columbia in 2000 and then across Canada, of incorporating emergency contraception without a physician's prescription into clinical pharmacy practice.²⁵⁻²⁷ Based on this clinical precedent for counselling patients on the potential of emergency contraception to reduce the number of unwanted pregnancies and subsequent abortions, the physical infrastructure was already in place in community pharmacies to ensure safe and private access to medication abortion prescriptions and

counselling. This professional experience contributed to pharmacists who were willing to be among the first to implement the new mifepristone clinical service in their community. Pharmacists have professional protocols to manage the timely ordering and stocking of the medication and handling documentation of the subsidised clinical transaction for provincial residents in administrative single-payer health system databases. During continuing education programmes, pharmacists were encouraged to identify physicians and nurse practitioners involved with reproductive healthcare in their community, and mention that their pharmacy would be stocking mifepristone and using the Pharmacist Mifepristone Checklist and Resource Guide.²⁸ Our experienced community pharmacists were strongly motivated by the belief that involvement in this new clinical practice has the potential to enhance interprofessional collaboration.

Our results are relevant for countries in which medication abortion is currently prescribed and dispensed by physicians, particularly those that may consider transitioning to permit dispensing of mifepristone by community pharmacists. Dispensing mifepristone in community pharmacies enables each patient to take the medication at a convenient time and place. Kaller *et al* aimed to assess the feasibility of pharmacists dispensing mifepristone in the USA and found that when given the opportunity, pharmacists were supportive of dispensing mifepristone, were willing to be trained and reported no dispensing challenges.²⁹ A recent clinical trial of pharmacist dispensing of mifepristone in California and Washington State has demonstrated high levels of patient satisfaction with their experience receiving mifepristone dispensed by a community pharmacist.³⁰ In Illinois, primary care providers support potential pharmacist dispensing of mifepristone as this would contribute toward the normalisation of medication abortion.³¹ Stone and Rafie note that critics of pharmacist dispensing say that only a handful of pharmacies will take up the option and the impact may be limited.³² Pharmacy is an ever-evolving field, and with global expansion in pharmacist scope of

Table 5 Associations between participants' characteristics and reported barriers to mifepristone provision (N=433)

Participant characteristics	Cost	Liability	Lack of prescriptions	Inadequate stock	Need for training	Lack of payment mechanisms	Short expiry date
Age	-0.005	0.019	-0.0002	0.014	0.013	0.010	0.007
95% CI	-0.021 to 0.011	0.003 to 0.035	-0.017 to 0.016	-0.002 to 0.031	-0.002 to 0.0295	-0.006 to 0.0265	-0.008 to 0.022
P value	0.513	0.018*	0.977	0.079	0.094	0.222	0.391
Sex	0.033	-0.08	-0.353	-0.128	-0.296	-0.325	-0.267
95% CI	-0.344 to 0.411	-0.449 to 0.293	-0.731 to 0.025	-0.508 to 0.252	-0.665 to 0.072	-0.703 to 0.052	-0.650 to 0.114
P value	0.862	0.679	0.067	0.509	0.115	0.092	0.170
Urban vs rural setting	0.278	-0.291	0.260	-0.069	-0.378	-0.352	-0.265
95% CI	-0.643 to 0.086	-0.648 to 0.065	-0.625 to 0.105	-0.431 to 0.292	-0.737 to -0.019	-0.715 to 0.011	-0.624 to 0.093
P value	0.134	0.109	0.163	0.707	0.039*	0.057	0.147
Years practicing as pharmacist	-0.002	0.013	0.006	0.015	0.015	0.015	0.013
95% CI	-0.018 to 0.013	-0.002 to 0.028	-0.010 to 0.021	-0.001 to 0.031	-0.0003 to 0.031	-0.0003 to 0.031	-0.002 to 0.028
P value	0.787	0.08	0.481	0.065	0.056	0.055	0.095
Pharmacy owner	0.358	0.637	-0.817	-0.212	0.525	-0.457	-0.448
95% CI	-0.154 to 0.871	0.120 to 1.154	-1.350 to 0.285	-0.725 to 0.299	0.010 to 1.040	-0.979 to 0.065	-0.950 to 0.054
P value	0.171	0.016*	0.003*	0.416	0.046*	0.086	0.080

*Statistically significant.



practice, pharmacists are quick to adapt to providing new services to meet the growing needs of the community served (eg, point of care testing, smoking cessation services, risk assessments and screening and immunisations are all advanced pharmacy services that go beyond the core medication dispensing service and were introduced to community pharmacy settings worldwide), with challenges addressed by policy change, education and training, professional collaboration and technology.^{33–35} Canadian findings suggest that when health policies and regulations are supportive, it is possible to implement mifepristone pharmacist dispensing nationwide. Pharmacists will proactively seek training, the multidisciplinary training programme offered by the SOGC is appropriate for pharmacists, and it could be adapted for other nations. A key finding from our pharmacist survey is the issue of rural representation. Nearly half of the participants were identified as being from a rural community. Our findings suggest a dramatic shift in enhanced access to abortion using mifepristone for rural and remote populations.

Members of our team also conducted a national qualitative study of pharmacists, concurrent with this survey, which provides additional context for the implementation of mifepristone.¹³ In that study, involving semi-structured interviews with 24 pharmacists who intended or had begun to dispense mifepristone, experiences in the first year of abortion pill availability (2017–2018) were characterised by the uncertainty of changing restrictive measures and self-organising and adapting to bring mifepristone dispensing in line with usual practice. Local implementation hinged on having a relationship between prescribers and community pharmacists, to ensure that there was a demand for pharmacy mifepristone supplies. Nonetheless, this qualitative investigation echoed the findings that pharmacists were motivated to dispense and encountered very minimal barriers.

Strengths of our study include the participation of pharmacists from across the country, which included participants from both rural and urban regions and diverse practice settings. Limitations to our study include that our data were collected pre-COVID-19 and are not reflective of pandemic-associated changes, although we note that the positive pharmacist uptake and readiness to dispense mifepristone pre-COVID-19 is likely to have been a facilitator for the rapid uptake of virtual medical abortion in Canada noted over the first pandemic year.³⁶ Further, our sample was not proportionally geographically representative: while we aimed to have pharmacist responses from all 10 provinces and 3 territories, we received less than six responses from the provinces of Newfoundland, Prince Edward Island and Quebec, and the territories of Yukon Territory, Northwest Territories and Nunavut. These provinces and territories represent 24.6% of the Canadian population.³⁷ We are unable to determine if this is due to limited recruitment among active pharmacists in these jurisdictions, or whether few pharmacists were aware of the opportunity to participate. In addition, we are

unable to determine the number of pharmacists aware of the opportunity to participate and thus are unable to determine the response rate or the degree of sampling and non-response bias.

Future studies assessing the long-term impact of mifepristone dispensing on pharmacy practice and pharmacists' experiences with mifepristone dispensing are needed to understand how to support both the dispensing healthcare providers and the patients who receive the medications.

CONCLUSIONS

Pharmacist respondents reported minimal barriers to promptly implementing mifepristone dispensing services in Canada. A small number of pharmacists reported community resistance, suggesting the majority of communities were supportive of having mifepristone available for their residents through pharmacies. Barriers of cost have now been removed as Canadian governments subsidise the medication for provincial residents. Pharmacists in Canada report high acceptance of dispensing mifepristone, as they are highly trained experts accustomed to safely dispensing, counselling and following-up with patients on medication use.

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