An exploratory study on the consequences and contextual factors of intimate partner violence among immigrant and Canadian-born women

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To cite: Du Mont J, Forte T. An exploratory study on the consequences and contextual factors of intimate partner violence among immigrant and Canadian-born women. *BMJ Open* 2012;**2**:e001728. doi:10.1136/bmjopen-2012-001728

► Prepublication history for this paper are available online. To view these files please visit the journal online (<http://dx.doi.org/10.1136/bmjopen-2012-001728>).

Received 25 June 2012
Accepted 27 September 2012

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ABSTRACT

Objective: To compare immigrant and Canadian-born women on the physical and psychological consequences of intimate partner violence (IPV), as well as examine important sociodemographic, health and social support and network factors that may shape their experiences of abuse.

Method: National, population-based, cross-sectional survey conducted in 2009.

Participants: 6859 women reported contact with a current or former partner in the previous 5 years, of whom 1480 reported having experienced emotional, financial, physical and/or sexual IPV. Of these women, 218 (15%) were immigrants and 1262 (85%) were Canadian-born.

Results: Immigrant women were less likely than Canadian-born women to report having experienced emotional abuse (15.3% vs 18.2%, $p=0.04$) and physical and/or sexual violence (5.1% vs 6.9%, $p=0.04$) from a current or former partner. There were no differences between immigrant and Canadian-born women in the physical and psychological consequences of physical and/or sexual IPV. However, compared with Canadian-born women, immigrant women reported lower levels of trust towards their neighbours (50.7% vs 41.5%, $p=0.04$) and people they work or go to school with (38.6% vs 27.5%, $p=0.02$), and were more likely to report having experienced discrimination based on ethnicity or culture (18.8% vs 6.8%, $p<0.0001$), race or skin colour ($p=0.003$) and language (10.1% vs 3.2%, $p<0.0001$). Immigrant women were less likely than Canadian-born women to report activity limitations ($p=0.01$) and medication use for sleep problems (14.1% vs 20.6%, $p=0.05$) and depression (11.5% vs 17.6%, $p=0.05$).

Conclusions: Our exploratory study revealed no differences between immigrant and Canadian-born women in the physical and psychological consequences of IPV. Abused immigrant women's lower levels of trust for certain individuals and experiences of discrimination may have important implications for seeking help for IPV and underscores the need for IPV-related intervention and prevention services that are culturally sensitive and appropriate.

INTRODUCTION

The prevalence and physical and psychological effects of intimate partner violence

ARTICLE SUMMARY

Article focus

- To compare immigrant and Canadian-born women on the physical and psychological consequences of IPV.
- To investigate important sociodemographic, health and social support and network factors that may shape immigrant women's experiences of abuse.

Key messages

- The prevalence of emotional abuse and physical/sexual violence was lower among immigrant compared with Canadian-born women.
- There were no differences between immigrant and Canadian-born women in the physical and psychological consequences of physical and/or sexual IPV.
- Abused immigrant women were more likely than Canadian-born women to report lower levels of trust and experiences of discrimination and this may have implications in seeking help for IPV.

Strengths and limitations of this study

- This exploratory study adds to the very limited body of research that has examined the physical and psychological consequences of IPV among immigrant compared with non-immigrant women.
- Future research investigating the physical and psychological consequences of IPV should include larger diverse samples of immigrant women.

(IPV), defined as physical, emotional, financial and/or sexual abuse perpetrated against the victim by an intimate partner are well documented among women in the general population.^{1–7} Little is known, however, about the extent and consequences of IPV among immigrant women. Although immigrant women are a heterogeneous group, factors related to their premigration and postmigration contexts, such as economic insecurity, family separation, social isolation, language barriers, availability of social

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supports, discrimination and gendered-migration policies^{8–15} may increase their vulnerability to abuse. Such factors may also intensify the physical and psychological impacts of abuse, while adding to the challenges immigrant women may experience in seeking help and leaving abusive situations.^{7 15–18}

Findings of the prevalence of IPV among immigrant women have been mixed. A few population-based studies have shown that the prevalence of any type of IPV is lower among immigrant women compared with non-immigrant women,^{19–21} with those recently settled (ie, <10 years) at significantly lower risk of abuse than longer-term immigrants.²² Another study showed that, while rates of physical abuse were similar, the prevalence of emotional abuse was significantly higher among recently immigrated women (14.7%) compared with Canadian-born women (8.7%).²³ Smaller community-based studies with non-representative samples suggest that the prevalence of IPV among immigrant women is higher than prevalence rates reported from population-based surveys,^{24–26} and reach as high as 60% in some studies.¹⁴

We were able to locate only one study that compared immigrant and non-immigrant women with respect to the physical and mental health consequences of IPV. This California-based study found that, although foreign-born Latinas reported lower rates of physical, sexual and psychological IPV compared with US-born Latinas, injury rates were markedly higher among Latina women born outside of the USA. Two-fifths (39.3%) of US-born women who were victims of lifetime physical violence reported injury, or indicated the need for or the use of medical care, compared with almost three-quarters (73.1%) of immigrant women.¹⁹ No differences were noted in mental health outcomes between immigrant and US-born women who had experienced violence.

Given the lack of research examining the physical and psychological effects of IPV among immigrant women, the goal of this study was to compare immigrant and Canadian-born women in the physical and psychological consequences of abuse. As premigration and postmigration factors may shape immigrant women's experiences of abuse, we also sought to examine the differences between abused immigrant and Canadian-born women across several domains such as their health status and social supports and networks. This information may provide insights into how immigrant women's particular contexts might affect their experiences of abuse and better elucidate the health-related outcomes associated with being a victim of IPV.

METHODS

Statistics Canada's General Social Survey (GSS) is a national survey that in 2009 focused again on victimisation and perceptions and experiences of crime and safety.²⁷ Canadians aged 15 years or older living in private households in 10 provinces were interviewed. Respondents were selected using a process of Random

Digit Dialing. Each province was divided into geographic areas or strata, and all phone numbers within each stratum had the same probability of being chosen. After a household was contacted, an individual 15 years of age or older within the household was selected at random to be interviewed. Data were collected using computer-assisted telephone interviewing. Interviewers were trained in telephone interviewing techniques by Statistics Canada staff. Given the nature of the questions in the survey, they were also provided with crisis, sensitivity and personal preparedness training by a psychologist, in accordance with ethical and safety recommendations for research on IPV against women.²⁸ Interviews were conducted between February and December 2009 and were administered in English or French. Respondents were assured that all information provided was strictly confidential. Of the 31 510 households that were selected, 19 422 usable responses were obtained, representing a response rate of 61.6%.

Definition of IPV

Respondents were asked about their experiences of IPV by a current or former partner with whom they had had contact within the 5 years preceding the survey. This included respondents who were legally married, living common law, divorced or separated or in a same-sex relationship. Physical and sexual IPV were measured using the modified Conflict Tactics Scale.

- *Physical violence* was assessed by asking respondents whether a current or former partner had threatened to hit them; threw something at them; pushed, grabbed or shoved them; slapped them; kicked, bit or hit them with a fist; hit them with something that could hurt; beaten them; choked them or used or threatened to use a knife or gun on them.
- *Sexual violence* was assessed by asking respondents, 'Has your partner or former partner forced you into any unwanted sexual activity by threatening you, holding you down or hurting you in some way?'
- *Emotional abuse* was defined as having occurred if a respondent answered affirmatively to at least one of the following statements about her partner/former partner's behaviour: 'tried to limit your contact with family or friends, put you down or called you names to make you feel bad, was jealous and did not want you to talk to other men or women, harmed or threatened to harm someone close to you, demanded to know who you were with and where you were at all times and damaged or destroyed your possessions or property'.
- *Financial abuse* was measured by the question, 'Has your partner prevented you from knowing about or having access to the family income, even if you asked?'

In this study, any IPV was defined as one or more types of physical, sexual, emotional or financial abuse. The severity of IPV was conceptualised in terms of the number of different types of abuse experienced (ie, one

type of physical, sexual, emotional or financial abuse vs two or more types).

Immigration status

The GSS assessed immigration status by asking respondents to indicate their country of birth. In this study, Canadian-born women included those women who indicated their country of birth to be Canada. Immigrant women included those women in the survey who indicated they were born outside of Canada.

Sociodemographic characteristics

Sociodemographic characteristics examined included age group (15–34, 35–54, 55 and older), marital status (married/common-law and widowed/separated/divorced/single), highest level of education achieved (high-school graduate or less, more than high school), annual household income in Canadian dollars (0–\$19 999; \$20 000–\$49 999; \$50 000 or more), presence of children younger than 15 years of age living in the home (yes, no), frequency of religious attendance (once per week, less than once per week, not at all) and region of residence (Eastern Canada (Quebec, Atlantic provinces), central Canada (Ontario) and Western Canada (British Columbia, the Prairies)).

Health status

Physical health status was assessed by the questions: 'In general, would you say your health is excellent, very good, good, fair or poor?' (excellent/very good/good, fair/poor). 'Are your daily activities at home, work, school or any other area limited by a physical condition?' (sometimes/often/always, no).

Mental health status was assessed by the questions: 'In general, would you say your mental health is excellent, very good, good, fair or poor?' (excellent/very good/good, fair/poor). 'Are your daily activities at home, work, school or any other area limited by a psychological, emotional or mental health condition?' (sometimes/often/always, no). Three questions asked respondents about their medication use: 'During the past month, have you used any medications that were prescribed or bought over-the-counter to help you 'sleep?' (yes, no), 'calm down?' (yes, no) or 'get out of depression?' (yes, no).

Social support and networks

Isolation was assessed with the questions: 'How would you describe your sense of belonging to your local community?' (very/somewhat strong, very/somewhat weak). 'Of those relatives and close friends you feel at ease with, how many live in the same city or local community as you?' (none, one or more). 'Do you know of any ethnic or cultural associations or clubs in or near your city or town/community?' and, if so, 'In the past 12 months, were you a member or participant in any of these organisations?' (yes, no).

Trust was assessed with the questions: 'Using a scale of 1–5 wherein 1 means 'cannot be trusted at all' and 5 means 'can be trusted a lot', how much do you trust

each of the following groups of people: people in your family, people in your neighbourhood, people you work with or go to school with (asked among those who indicated they were employed or in school), and strangers?' Responses were grouped into 1–3 as low trust and 4 and 5 as high trust.

Finally, experiences of discrimination were assessed with the questions: 'In the past 5 years, have you experienced discrimination or been treated unfairly by others in Canada because of 'ethnicity or culture' (yes, no), 'race or colour' (yes, no), 'religion' (yes, no), or 'language' (yes, no)?' Each of these items was examined separately then combined into an 'any discrimination' (one or more types of discrimination) variable. Respondents who reported discrimination based on any of these items, as well as sex, physical appearance, sexual orientation, age, disability or some other reason were asked, 'Was the discrimination you experienced 'in dealing with public hospitals or health care workers?' (yes, no) or 'from a person in authority or from a service provider?' (yes, no).

Consequences of physical and/or sexual IPV

Respondents who reported physical and/or sexual IPV were asked how these incidents of violence had affected them.

Respondents answered yes or no to each of the following questions that examined the physical consequences of IPV: 'During this incident/any of these incidents were you ever physically injured in any way, for example bruises, cuts, broken bones, etc?' and 'During the past 5 years, did you ever have to take time off from your everyday activities because of what happened to you other than the time you spent in the hospital or health centre and/or at home in bed?'

The psychological consequences of IPV were assessed by the questions: 'At the time of the incidence/these incidences, how did this experience affect you?' Respondents answered yes or no to each of the following: angry, upset/confused/frustrated, fearful, depression/anxiety attacks and/or lowered self-esteem; and 'During the past 5 years, did you ever fear that your life was in danger because of your (former) spouse/ (former) partner's violent or threatening behaviour?'

Analyses

Analyses were weighted according to Statistics Canada's guidelines to ensure that the findings were representative of the Canadian population as a whole. We examined the sociodemographic characteristics and prevalence of emotional, financial, physical/sexual and any IPV among immigrant and Canadian-born women reporting contact with a current or former partner in the previous 5 years. Among women reporting any IPV, we compared immigrant and Canadian-born women on the severity of IPV experienced, and sociodemographic, health status and social support and network characteristics. Finally, immigrant and Canadian-born women who reported experiencing physical and/or sexual violence were compared with

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respect to the physical and psychological consequences suffered as a result. All analyses were conducted with a χ^2 test for categorical variables. A *p*-value of 0.05 was considered statistically significant. For household income, the proportion of missing data was 14%. Therefore, an unknown/not-stated category was included in the analysis of this variable to retain the sample size.

RESULTS

A total of 10 694 women participated in the 2009 GSS, and of these 6900 reported contact with a current or former partner within the previous 5 years. Information on country of birth was available for 6859 of these women, of whom 5695 (83%) indicated Canada to be their country of birth and 1164 (17%) indicated they were born outside of Canada. A total of 1480 women reported having experienced one or more types of IPV; 1262 were Canadian-born and 218 were immigrants.

There were significant differences in sociodemographic characteristics between immigrant and Canadian-born women (table 1). Immigrant women were more likely to be older (*p*=0.02) and married or in a common-law relationship (*p*<0.0001) and to have more than a high school education (*p*=0.001), missing information on household income (*p*<0.0001) and children aged <15 years living in the home (*p*=0.001). Compared with Canadian-born women, immigrant women reported

more frequent religious attendance (*p*<0.0001) and were more likely to reside in Central Canada (*p*<0.0001).

With respect to specific types of IPV, immigrant women were less likely than Canadian-born women to report having experienced emotional (15.3% vs 18.2%, *p*=0.04) and physical abuse and/or sexual violence (5.1% vs 6.9%, *p*=0.04; table 2). Compared with Canadian-born women, marginally less immigrant women reported having experienced any type of IPV (17.5% vs 20.3%, *p*=0.06). Among those who reported any IPV, immigrant women were marginally less likely than Canadian-born women to report having experienced two or more types of violence (*p*=0.06).

The differences in sociodemographic characteristics between immigrant women and Canadian-born women who reported having experienced any type of IPV were similar to those found in the entire sample. Compared with abused Canadian-born women, abused immigrant women were more likely to be married or living in a common-law relationship (*p*=0.001), have children aged <15 years living in the home (*p*=0.03), have missing information on annual household income (*p*=0.01), report more frequent religious attendance (*p*=0.0001) and reside in Central Canada (*p*<0.0001).

There were also differences in health status between abused immigrant and Canadian-born women (table 3). Immigrant women were less likely than Canadian-born women to report that their daily activities were limited

Table 1 Weighted analyses of sociodemographic characteristics of immigrant and Canadian-born women reporting contact with a current or former partner in the previous 5 years in the 2009 General Social Survey (N=6859)

	Immigrant		Canadian-born		p Value
	Weighted (N)	Per cent	Weighted (N)	Per cent	
Age group					
15–34	277	18.3	1207	22.6	0.02
35–54	728	48.1	2467	46.2	
55 and older	509	33.6	1672	31.3	
Marital status					
Married or common-law	1406	92.9	4692	87.8	<0.0001
Widowed, separated, divorced or single	107	7.1	653	12.2	
Education					
High school or less	343	22.8	1519	28.5	0.001
More than high school	1160	77.2	3803	71.5	
Annual household income					
0–\$19 999	73	4.8	231	4.3	<0.0001
\$20 000–\$49 999	305	20.1	1064	19.9	
\$50 000 or more	782	51.7	3219	60.2	
Unknown/not stated	354	23.4	832	15.3	
Children <15 living in the home	613	40.5	1831	34.3	0.001
Religious attendance					
Once per week	487	32.7	921	17.3	<0.0001
Less than once per week	584	39.1	2190	41.2	
Not at all	421	28.2	2207	41.5	
Region of residence					
Eastern Canada	215	14.2	1940	36.3	<0.0001
Central Canada	879	58.1	1728	32.3	
Western Canada	420	27.7	1677	31.4	

Table 2 Weighted analyses of any intimate partner violence (IPV), and severity of IPV reported by immigrant and Canadian-born women who were in contact with a current or former partner in the previous 5 years

	Immigrant		Canadian-born		p Value
	Weighted (N)	Per cent	Weighted (N)	Per cent	
Any IPV	256	17.5	1069	20.3	0.06
Type of IPV					
Emotional	225	15.3	961	18.2	0.04
Financial	53	3.6	240	4.5	0.18
Physical/sexual	75	5.1	362	6.9	0.04
Severity of IPV*					
Experienced 1 type of abuse	200	69.9	741	62.1	0.06
Experienced 2 or more types of abuse	86	30.1	453	38.0	

*Among those reporting any IPV.

by a physical condition sometimes, often or always ($p=0.01$). In addition, immigrant women were less likely than Canadian-born women to report any medication use in the past month for sleep problems ($p=0.05$) and depression ($p=0.05$).

Finally, there were differences between abused immigrant and Canadian-born women in characteristics associated with social supports and networks (table 4). Among those who indicated they knew of cultural associations or clubs, more immigrant women indicated being a member of these organisations in the past 12 months ($p=0.02$). However, immigrant women were less likely than Canadian-born women to indicate a high level of trust towards their neighbours ($p=0.04$) or people they work or go to school with ($p=0.02$). Moreover, they were more likely than Canadian-born women to report having experienced any discrimination

in the previous 5 years ($p<0.0001$). Specifically, immigrant women reported more discrimination based on ethnicity or culture ($p<0.0001$), race or skin colour ($p=0.0003$) and language ($p<0.0001$).

There were no differences between immigrant and Canadian-born women in the physical and psychological consequences experienced as a result of physical and/or sexual IPV (table 5).

DISCUSSION

This study shows that a sizeable proportion of immigrant women in Canada have been affected by violence from a current or former intimate partner. Almost 18% of immigrant women reported having experienced one or more types of IPV with 15% having reported emotional abuse, 4% financial abuse and 5% physical and/or

Table 3 Weighted analysis of health status of immigrant and Canadian-born women reporting any intimate partner violence

	Immigrant		Canadian-born		p Value
	Weighted (N)	Per cent	Weighted (N)	Per cent	
Physical health status					
Self-rated physical health					
Excellent/very good/good	228	79.6	986	82.7	0.33
Fair/poor	58	20.4	206	17.3	
Daily activities limited by physical condition					
No	247	86.6	929	77.8	0.01
Sometimes, often or always	38	13.4	265	22.2	
Psychological health status					
Self-rated mental health					
Excellent/very good/good	257	90.0	1059	88.9	0.67
Fair/poor	28	10.0	133	11.1	
Daily activities limited by psychological, emotional or mental condition					
No	253	89.2	1063	89.1	0.97
Sometimes, often or always	31	10.8	130	10.9	
Medication use					
Sleep	40	14.1	246	20.6	0.05
Anxiety	36	12.8	194	16.3	0.26
Depression	33	11.5	209	17.6	0.05

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Table 4 Weighted analysis of social supports and network characteristics of immigrant and Canadian-born women reporting any intimate partner violence

	Immigrant		Canadian-born		p Value
	Weighted (N)	Per cent	Weighted (N)	Per cent	
Isolation					
Relatives/close friends at ease with live in same city/local community					
None	34	12.4	152	13.1	0.83
One or more	238	87.6	1010	86.9	
Sense of belonging in your local community					
Very/somewhat strong	196	71.2	836	70.9	0.94
Very/somewhat weak	79	28.8	343	29.1	
Know of ethnic or cultural association/club in/near your city/town/community	127	45.6	535	46.5	0.84
Member of cultural association/club in past 12 months	38	30.0	94	17.6	
Trust					
Trust family					
Low	19	6.7	75	6.3	0.86
High	262	93.3	1114	93.7	
Trust neighbours					
Low	139	50.7	493	41.5	0.04
High	135	49.3	694	58.5	
Trust people at work/school					
Low	85	38.6	262	27.5	0.02
High	136	61.4	690	72.5	
Trust strangers					
Low	267	95.4	1113	93.5	0.33
High	13	4.6	77	6.5	
Discrimination					
Unfair treatment based on:					
Ethnicity or culture	53	18.8	82	6.8	<0.0001
Race or colour	46	16.2	86	7.2	0.0003
Religion	15	5.2	42	3.5	0.29
Language	29	10.1	38	3.2	<0.0001
Any discrimination	74	26.1	145	12.2	<0.0001
Unfair treatment when dealing with public hospitals or health care workers?*					
Yes	19	21.9	58	19.1	0.66
No	69	78.1	246	80.9	
Unfair treatment from a person in authority or from a service provider?*					
Yes	49	57.3	211	69.6	0.11
No	37	42.7	92	30.4	

*Includes those who indicated they had experienced discrimination based on ethnicity/culture, race/colour, religion, language, sex, physical appearance, sexual orientation, age, disability or some other reason.

sexual violence. Almost one-third (30%) of immigrant women experiencing IPV reported having experienced two or more types. These estimates are similar to those reported for immigrant women from Canadian population-based surveys in the past.^{22 23}

Our study shows that immigrant women were less likely to report having experienced IPV than non-immigrant women, a finding that is consistent with some previous research.^{19 20 22} Specifically, immigrant women were less likely than Canadian-born women to report having experienced emotional abuse and physical and/or sexual violence. It may be possible that factors such as embarrassment, stigma, financial

dependence on the perpetrator, fears of deportation, a desire to preserve family harmony and honour and community censure for disclosing violence discouraged immigrant women in the survey from reporting IPV.^{8 10 14 16 29-32} In addition, the lower rates of abuse found for immigrant women may be partially explained by the fact that many of the risk factors previously linked to IPV were less likely to be present among immigrant women in this study, such as younger age,^{20 33-35} lower educational attainment³⁶ and lack of religious attendance.³⁷

Although we found no differences between immigrant and Canadian-born women in the consequences of

Table 5 Weighted analyses of the consequences of physical and/or sexual intimate partner violence for immigrant and Canadian-born women

	Immigrant		Canadian-born		p Value
	Weighted (N)	Per cent	Weighted (N)	Per cent	
Physical consequences					
Injured	32	37.9	173	42.8	0.51
Took time off from everyday activities	20	24.4	112	27.8	0.59
Psychological consequences					
Angry	21	26.7	148	38.4	0.13
Upset/confused/frustrated	35	43.9	150	38.9	0.52
Fearful	22	27.7	109	28.2	0.94
Depression/anxiety attacks	16	20.5	96	24.9	0.52
Lowered self-esteem	7	9.2	63	16.2	0.23
Feared life in danger	21	25.6	139	34.4	0.19

physical and/or sexual IPV, our study confirms the negative impact that such abuse has on women's physical and psychological well-being. About 40% of immigrant and Canadian-born women who experienced physical and/or sexual IPV reported being injured as a result of the abuse and approximately 25% indicated they had to take time off from their everyday activities as a result of the violence. A sizeable proportion of women also indicated that they had suffered psychologically. Over one-quarter of women who experienced physical and/or sexual violence reported that the incidence(s) made them feel angry and fearful that their life was in danger.

We found that a number of sociodemographic, health status and social support and network variables differentiated abused immigrant and Canadian-born women. Compared with Canadian-born women, immigrant women were more likely to be married or living in a common-law relationship. Although it is unclear whether immigrant women's current married or common-law partner was the perpetrator of the abuse, factors such as economic dependence or isolation from family and/or friends may discourage immigrant women from leaving an abusive relationship.^{8 38 39} Immigrant women were also more likely than their Canadian-born counterparts to have young children living in the home, a finding that may be of concern given the well-documented negative impact of children witnessing violence.⁴⁰⁻⁴² Having young children in the home may also discourage some immigrant women from leaving the abuser.³²

Immigrant women were more likely than Canadian-born women experiencing IPV to frequently attend religious services. The research around religious involvement and IPV has been mixed. Data from a national survey of American households showed that regular religious attendance was inversely related to perpetration of IPV.³⁷ Some researchers found that personal networks, consisting of religious leaders, family and friends were often the first place abused immigrant women turned to for help.^{43 44} Others, however, have shown that religious involvement may increase the risk for IPV. It has been speculated that this is

owing to the patriarchal ideologies and gender role norms rooted in some religions.^{14 45} In a review of IPV among Korean American immigrant women, Lee and Hadeed¹⁴ noted that religious affiliation and involvement were significant risk factors for physical assault by a male partner. Religion may also prevent some women from leaving an abusive relationship.³² Given these findings, interventions for abuse involving religious communities may be important for immigrant women as they could provide support for those experiencing IPV. Interventions, however, should transform ideologies inherent in some religions that condone or tolerate violence against women.

Generally, abused immigrant women tended to report better physical and mental health than their Canadian-born counterparts. Immigrant women were less likely to report the use of medication in the past month for sleep problems and depression, and to disclose activity limitations due to a physical condition. Greater medication use and activity limitations have both been linked to IPV^{6 33 34 46} and may partially explain the higher rates of abuse among Canadian-born women in this study. For example, previous literature has suggested that women with disabilities may be more vulnerable to abuse because of factors related to limited physical strength and mobility as well as dependence on the abuser for care.⁴⁷

Immigrant women having experienced IPV did not appear to be particularly socially isolated. Similar to Canadian-born women, almost 90% reported that they had at least one relative or close friend that they felt at ease with in the same city or community and over 70% felt a strong or somewhat strong sense of belonging in their local community. Moreover, compared with Canadian-born women, a greater proportion indicated that they were a member of an ethnic or cultural association or club near them in the past 12 months. These connections may have contributed in part to immigrant women's assessment of their mental health as being positive despite having experienced IPV. Latta and Goodman⁴⁴ found that family and friends may provide a safe haven for women who experience IPV and a source

of counselling which may help them cope with the violence.

Immigrant women were more likely than Canadian-born women having experienced IPV to report discrimination in the past 5 years based on culture, ethnicity, race, colour and language. They were also more likely to report lower levels of trust toward their neighbours and the people with whom they work or go to school with. Issues with trust and experiences of discrimination may prevent immigrant women from disclosing the abuse or using social, health and criminal justice services.^{44–48} Previous studies of immigrant women who experienced abuse underscore the need for IPV services that are culturally and linguistically appropriate.^{10–32} In this study, a substantial proportion of women who reported having experienced unfair treatment stated that it occurred when dealing with public hospitals or healthcare workers and from persons in authority or service providers—people that may be integral in women's help-seeking for IPV.

Our exploratory study sheds new light on the physical and psychological consequences of IPV in immigrant and Canadian-born women. Despite this, there are some limitations that need to be kept in mind when interpreting the results. First, while the findings from these analyses suggest that the psychological and physical aftermath of IPV were similar for immigrant compared with Canadian-born women, several different types of consequences for immigrant women could not be reported owing to the small sample size. For consequences that were examined, the sample size may have been too small to detect important differences. Lack of a sufficiently large enough sample also meant that immigrant women had to be grouped into a single category regardless of important factors that may have influenced their experiences of IPV such as the length of residence in Canada.^{22–23} The small sample size also inhibited our ability to employ multivariate techniques to determine the relative importance of contextual factors on the consequences of abuse. Future research should use representative samples that are larger and take into account other important factors that may affect immigrant women's experiences of IPV such as the country of origin and age at immigration.

Second, the GSS was administered in English or French only and thus excludes respondents who did not speak either of the official languages. As a result, rates of IPV and associated consequences among immigrant women may have been underestimated, particularly among recent immigrant women who may not have been able to participate in the survey owing to the limited knowledge of English or French. Third, as IPV is a topic that is sensitive in nature, not all women may have acknowledged their experiences of abuse. This may have been particularly true for immigrant women who, as noted earlier, may have had difficulty disclosing IPV owing to particular personal, financial, social and legal concerns. Moreover, although interviewers were trained

to detect whether the respondent was alone, many abused women may not have taken the risk of participating in the survey in the first place or disclosing any type of IPV during the interview out of fear of a nearby perpetrator. Fourth, given the cross-sectional nature of this study, it is not possible, for example, to determine whether IPV led to higher rates of activity limitations and/or medication use among Canadian-born women or whether women with activity limitations or higher medication use were more likely to have experienced abuse. Finally, the use of single questions to assess reactions to violence that use labels (ie, depression and anxiety) rather than scales or diagnostic instruments to properly diagnose these conditions may have resulted in the underestimation or overestimation of psychological problems following IPV.

To conclude, this study revealed that a sizeable proportion of immigrant women in Canada have experienced IPV and as a result suffered from a wide range of negative psychological and physical effects. While future research should validate these findings using large, representative samples of diverse groups of immigrant women, these preliminary results suggest that the consequences of IPV are similar for immigrant and Canadian-born women. However, abused immigrant women reported lower levels of trust and were more likely to report being discriminated against for reasons such as race and colour, highlighting some of the structural and systemic factors that may have important implications for seeking help and that underscore the need for IPV-related intervention and prevention services that are culturally sensitive and appropriate.

Contributors Both the authors have contributed equally to this work. JDM conceptualised the study, TF performed the data analysis, JDM and TF together interpreted the results of the data analysis, JDM wrote the main paper and TF wrote the methods section of the paper, JDM and TF jointly reviewed several draughts and edited the paper. Both the authors discussed the results and implications and commented on the manuscript at all stages.

Funding The research for this article was supported by the Public Health Agency of Canada. JDM has been supported by the Atkinson Foundation.

Competing interests None.

Provenance and peer review Not commissioned; externally peer-reviewed.

Data sharing statement No additional data are available.

Correction Notice This paper has been corrected since it was first published. The affiliations have been amended.

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Correction

Du Mont J, Forte T. An exploratory study on the consequences and contextual factors of intimate partner violence among immigrant and Canadian-born women. *BMJ Open* 2012;**2**: e001728. There were errors within the text of this article and affiliation 1 was incorrect. We have since corrected the online version.

BMJ Open 2013;**3**:e001728corr1. doi:10.1136/bmjopen-2012-001728corr1