Data source Construct		Coding structure	Inception
Canadian Institute for	Hospital admissions,	Canadian Coding Standards for the	1988
Health Information	including those for	International Classification of Diseases and	
Discharge Abstract	maternal-newborn	Related Health Problems codes	
Database	records (MOMBABY)		
National Ambulatory	Emergency department	Canadian Coding Standards for the	2002
Care Reporting System	visits	International Classification of Diseases and	
		Related Health Problems codes	
Ontario Health Insurance	Outpatient physician	Physician billing codes	1991
Database	visits		
Ontario Mental Health	Psychiatric hospital	Diagnostic and Statistical Manual of Mental	2005
Reporting System	admissions	Disorders	
Ontario Registrar	Deaths	N/A	1990
General Database			
Registered Persons	Sociodemographic data,	N/A	1991
Database	including postal code		
	for linkage with Census		

Appendix 1. Details of ICES Health Administrative Datasets

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Type of violence	ICD-10 code*	Description
Physical	T74.1	Physical abuse
	X85	Assault by drugs, medicaments and biological substances
	X86	Assault by corrosive substance
	X87	Assault by pesticides
	X88	Assault by gases and vapours
	X89	Assault by other specified chemicals and noxious substances
	X90	Assault by unspecified chemical or noxious substance
	X91	Assault by hanging, strangulation and suffocation
	X92	Assault by drowning and submersion
	X93	Assault by handgun discharge
	X94	Assault by rifle, shotgun and larger firearm discharge
	X95	Assault by other and unspecified firearm discharge
	X96	Assault by explosive material
	X97	Assault by smoke, fire and flames
	X98	Assault by steam, hot vapours and hot objects
	X99	Assault by sharp object
	Y00	Assault by sharp object
	Y01	Assault by pushing from high place
	Y02	Assault by pushing or placing victim before moving object
	Y03	Assault by pushing of placing victim before moving object
	Y04	
		Assault by bodily force
	Y08	Assault by other specified means
	Y09	Assault by unspecified means
	Y87.1	Sequelae of assault
	Z04.58	Examination and observation following other inflicted injury
G 1	Z61.6	Problems related to alleged physical abuse of child (15 to 18 th birthday only)
Sexual	T74.2	Sexual abuse
	Y05	Sexual assault by bodily force
	Z04.4	Examination and observation following alleged rape and seduction
	Z04.50	Examination and observation following alleged adult sexual and physical abuse
	Z04.51	Examination and observation following alleged child sexual and physical abuse (15 to 18 th birthday only)
		Problems related to alleged sexual abuse of child by person within primary support
	Z61.4	group (15 to 18 th birthday only)
		Problems related to alleged sexual abuse of child by person outside primary support
	Z61.5	group (15 to 18 th birthday only)
	Z70.2	Counselling related to sexual behaviour and orientation of third party
	770.2	Counselling related to combined concerns regarding sexual attitude, behaviour and
	Z70.3	orientation
Psychological	T73	Effects of other deprivation
	T74.0	Neglect or abandonment
	T74.3	Psychological abuse
	T74.8	Other maltreatment syndromes
	T74.9	Maltreatment syndrome, unspecified
	Y06	Neglect and abandonment
	Y07	Other maltreatment syndromes

Appendix 2. ICD-10 Codes for the Identification of Interpersonal Violence¹

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Type of violence	ICD-10 code*	Description
Physical	T74.1	Physical abuse
	Z62.9	Problems related to upbringing, unspecified (15 to 18th birthday only)

* One or more of these codes was required to be present in any diagnostic field.

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Appendix 3. Measurement o	of the	Covariates
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Covariate	Definition	Dataset
Age	Age at conception	MOMBABY
Parity	Number of prior obstetrical deliveries	MOMBABY
Neighbourhood income quintile	Median family income in dissemination area associated with residential postal code	RPDB linked with Census data
Rural residence	Rurality Index of Ontario, ² a standard, normalized scale ranging from 0 to 100 that reflects a community's degree of rurality	RPDB linked with Census data
Chronic conditions	Stable and unstable chronic conditions recorded in the two years before conception, where unstable conditions are more likely to have complications and are require more ongoing resources such as specialty care ³	Johns Hopkins Adjusted Clinical Groups (ACG)® System version 10 applied to OHIP
Mental illness	Any mood or anxiety disorder, psychotic disorder, or other mental disorder diagnosed in the two years before conception ⁴	OHIP: (1) with a general practitioner/family physician with (a) a general service code (A001, A003-A008, A888, A901, A905) for diagnostic codes 295-298, 300-302, 306, 309, 311 or (b) a mental health service code (K005, K007, K623) for diagnostic codes 295-298, 300-302, 306, 309, 311 OR (2) a visit with a psychiatrist for diagnostic codes 295-298, 300-302, 306, 309, 311; CIHI-DAD/NACRS: ICD-9 295-298, 300-302, 306, 309, 311; ICD-10 F20 (excluding F20.4), F21-F25, F28-F34, F38-F43, F48.8, F48.9, F53.1, F53.0, F60-F62, F68, F69; OMHRS: DSM-IV 295-298, 300, 308.3, 309.0, 309.24, 309.28, 309.3, 309.4, 309.8, 309.9; PROVDX1 1, 5, 6, 7, 15, 16
Substance use disorder	Any addiction diagnosis related to drugs or alcohol in the two years before conception	OHIP: (1) with a general practitioner/family physician with (a) a general service code (A001, A003-A008, A888, A901, A905) for diagnostic codes 303, 304 or (b) a mental health service code (K005, K007, K623) for diagnostic codes 303, 304 OR (2) a visit with a psychiatrist for diagnostic codes 303, 304; CIHI-DAD/NACRS: ICD-9 303-305; ICD-10 F10-F19, F55; OMHRS: DSM-IV 291 (excluding 291.82), 292 (excluding 292.85), 303, 304, 305, PROVDX 4
Any history of interpersonal violence	History of interpersonal violence in ≥ 1 emergency department visits or hospitalizations for physical, sexual, or psychological violence any time before conception	CIHI-DAD, NACRS: T73, T74, X85-X99, Y01-Y09, Y87.1, Z04.4, Z04.50, Z04.51, Z04.58, Z61.4-Z61.6, Z62.9, Z70.2, Z70.3
Recent history of interpersonal violence	History of interpersonal violence in ≥ 1 emergency department visits or hospitalizations for physical, sexual, or psychological violence in the two years before conception	CIHI-DAD, NACRS: T73, T74, X85-X99, Y01-Y09, Y87.1, Z04.4, Z04.50, Z04.51, Z04.58, Z61.4-Z61.6, Z62.9, Z70.2, Z70.3

Abbreviations: CIHI-DAD = Canadian Institute for Health Information Discharge Abstract Database, NACRS = National Ambulatory Care Reporting System, OHIP = Ontario Health Insurance Plan, OMHRS = Ontario Mental Health Reporting System, RPDB = Registered Persons Database.

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Appendix 4. Standardized Differences for Table 1

	Physical disability (N=147 414)	Sensory disability (N=47 459)	Intellectual or developmental disability (N=2557)	Multiple disabilities (N=9598)
Age, years				
15-24	0.01	0.13	0.64	0.17
25-34	0.05	0.12	0.44	0.17
35-49	0.06	0.01	0.20	0.04
Multiparous	0.02	0.05	0.03	0.02
Neighborhood income quintile (Q)				
Q1 (lowest)	0.02	0.00	0.36	0.09
Q2	0.01	0.01	0.05	0.02
Q3	0.01	0.00	0.10	0.01
Q4	0.01	0.01	0.25	0.06
Q5 (highest)	0.02	0.01	0.16	0.05
Missing	0.01	0.01	0.05	0.01
Rural region of residence	0.07	0.01	0.07	0.07
Missing	0.02	0.01	0.12	0.02
Stable chronic conditions	0.10	0.07	0.04	0.22
Unstable chronic conditions	0.14	0.10	0.11	0.29
Mental illness	0.19	0.13	0.69	0.37
Substance use disorder	0.09	0.03	0.36	0.19
Any history of interpersonal violence before conception	0.07	0.05	0.35	0.18
Recent history of interpersonal violence < 2 years before conception	0.13	0.10	0.43	0.26

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Appendix 5. Risk of Interpersonal Violence Between Fertilization and Up to 365 Days After Delivery, in Individuals With a Disability, Compared With Those Without Any Recognized Disability, by Timing of Violence

Disability status	N (%) with outcome	Unadjusted RR (95% CI)	Model 1: Adjusted RR (95% CI) *	Model 2: Adjusted RR (95% CI) †
Interpersonal violence in pregnancy				
No disability (N=1 594 441)	3496 (0.2)	[Referent]	[Referent]	[Referent]
Physical disability only (N=147 414)	581 (0.4)	1.83 (1.66-2.01)	1.60 (1.45-1.75)	1.45 (1.32-1.59)
Sensory disability only (N=47 459)	164 (0.3)	1.60 (1.36-1.89)	1.27 (1.08-1.49)	1.18 (1.01-1.39)
Intellectual or developmental disability only (N=2557)	58 (2.3)	10.14 (7.66-13.41)	2.63 (1.99-3.48)	2.01 (1.52-2.65)
Multiple disabilities (N=9598)	79 (0.8)	3.66 (2.86-4.70)	2.18 (1.71-2.77)	1.73 (1.36-2.19)
Interpersonal violence in the postpartum period				
No disability (N=1 594 441)	4221 (0.3)	[Referent]	[Referent]	[Referent]
Physical disability only (N=147 414)	664 (0.5)	1.69 (1.54-1.86)	1.48 (1.36-1.62)	1.34 (1.23-1.46)
Sensory disability only (N=47 459)	167 (0.4)	1.33 (1.12-1.57)	1.06 (0.89-1.25)	0.98 (0.83-1.16)
Intellectual or developmental disability only (N=2557)	82 (3.2)	12.37 (9.78-15.66)	3.12 (2.49-3.92)	2.36 (1.88-2.95)
Multiple disabilities (N=9598)	111 (1.2)	4.72 (3.82-5.83)	2.76 (2.25-3.38)	2.16 (1.77-2.63)

* Model 1 adjusts for age, parity, neighbourhood income quintile, rurality, stable and unstable chronic conditions, mental illness, and substance use disorders.

[†] Model 2 adjusts for Model 1 variables in addition to any history of interpersonal violence.

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Disability status	N (%) with outcome	Unadjusted RR (95% CI)	Model 1: Adjusted RR (95% CI) *	Model 2: Adjusted RR (95% CI) †
Physical violence	with outcome	()3/0(C1)	KK (7570 CI)	KK (9570 CI)
No disability (N=1 594 441)	5903 (0.4)	[Referent]	[Referent]	[Referent]
Physical disability only (N=147 414)	941 (0.6)	1.68 (1.55-1.82)	1.52 (1.40-1.64)	1.39 (1.29-1.50)
Sensory disability only (N=47 459)	239 (0.5)	1.33 (1.16-1.54)	1.10 (0.95-1.26)	1.02 (0.89-1.17)
Intellectual or developmental disability only (N=2557)	92 (3.6)	9.17 (7.19-11.70)	2.59 (2.05-3.26)	2.02 (1.60-2.54)
Multiple disabilities (N=9598)	133 (1.4)	3.73 (3.05-4.56)	2.30 (1.91-2.78)	1.89 (1.57-2.28)
Sexual violence				
No disability (N=1 594 441)	1244 (0.1)	[Referent]	[Referent]	[Referent]
Physical disability only (N=147 414)	211 (0.1)	1.86 (1.58-2.20)	1.59 (1.36-1.87)	1.45 (1.23-1.70)
Sensory disability only (N=47 459)	70 (0.1)	1.94 (1.48-2.54)	1.47 (1.12-1.91)	1.36 (1.04-1.77)
Intellectual or developmental disability only (N=2557)	44 (1.7)	22.82 (16.20-32.14	4.86 (3.51-6.73)	3.76 (2.72-5.21)
Multiple disabilities (N=9598)	49 (0.5)	6.72 (4.91-9.21)	3.70 (2.74-4.99)	2.93 (2.19-3.93)
Psychological violence				
No disability (N=1 594 441)	1357 (0.1)	[Referent]	[Referent]	[Referent]
Physical disability only (N=147 414)	224 (0.2)	1.81 (1.54-2.12)	1.58 (1.34-1.85)	1.47 (1.25-1.72)
Sensory disability only (N=47 459)	39 (0.1)	0.99 (0.71-1.39)	0.81 (0.58-1.13)	0.76 (0.54-1.07)
Intellectual or developmental disability only (N=2557)	11 (0.4)	4.99 (2.60-9.56)	1.34 (0.70-2.58)	1.11 (0.58-2.13)
Multiple disabilities (N=9598)	30 (0.3)	3.87 (2.62-5.72)	2.31 (1.57-3.38)	1.94 (1.32-2.84)

* Model 1 adjusts for age, parity, neighbourhood income quintile, rurality, stable and unstable chronic conditions, mental illness, and substance use disorders.

[†] Model 2 adjusts for Model 1 variables in addition to any history of interpersonal violence.

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Appendix 7. Odds of One and Two or More Health Care Encounters for Interpersonal Violence Between Fertilization and Up to 365 days After Delivery, in Individuals With a Disability, Compared With Those Without Any Recognized Disability

	N (%)	N (%)	Adjusted RR (95% CI)	Adjusted RR (95% CI)
Disability status	with 1 encounter	with ≥ 2 encounters	for 1 encounter *†	for ≥ 2 encounters *†
No disability (N=1 594 441)	6024 (0.4)	1,450 (0.1)	1.00 (Referent)	1.00 (Referent)
Physical disability only (N=147 414)	911 (0.6)	272 (0.2)	2.04 (1.78-2.35)	1.38 (1.29-1.47)
Sensory disability only (N=47 459)	249 (0.5)	62 (0.1)	1.51 (1.16-1.97)	1.05 (0.93-1.18)
Intellectual or developmental disability only (N=2557)	117 (4.6)	18 (0.7)	7.06 (4.16-11.98)	2.60 (2.13-3.17)
Multiple disabilities (N=9598)	123 (1.3)	50 (0.5)	6.48 (4.87-8.62)	1.97 (1.67-2.33)

* Results of multinomial logistic regression with 0 violence-related health care encounters as the referent.

[†] Model adjusts for age, parity, neighbourhood income quintile, rurality, stable and unstable chronic conditions, mental illness, and substance use disorders, and any history of interpersonal violence.

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