Table S1. Variables used to define cohort entry and exclusion criteria, study exposures, outcomes and adjustment variables.

		Disease, procedure or	ICD-9 [ICD-10-CA] diagnostic codes in DAD,	CCP [CCI] procedural codes in DAD, SDS,	Diagnostic	
Assessment	Timing	measure	SDS and NACRS	NACRS	codes in OHIP	Other sources
Inclusion criteria	At the delivery	Any obstetrical hospital livebirth or stillbirth from 20 weeks' gestation onward. Only include women aged 16-50 years, with a valid health insurance number.	MOMBABY (see link at https://datadictionary.ice s.on.ca/Applications/Data Dictionary/Library.aspx?Library=MOMBABY)			
Exclusion criteria (any dxtype, exclude suspect diagnoses)	≤ 3 years before the index birth hospitalization discharge date, or < 42 days after the index birth hospitalization discharge date	Coronary artery disease	410, 411, 413, 414.0, 429.2 [I20, I21, I22 , I24, I25.0, I25.1, I51.3]	48 [1HZ80, 1IJ50, 1IJ54, 1IJ55, 1IJ57, 1IJ76, 1IJ80, 1IK80, 1IK87, 1IL35, 2IL70, 3IP10]	410, 412, 413, 429	
	Same	Heart failure	428 [150]		428	
	Same	Pericardial disease, endocarditis, myocarditis, cardiomyopathy or peripartum cardiomyopathy, valvular heart disease	420-425 [130-143], 674.5 [090.3], 390-392 [100-102, 105-109]		398	
	Same	Coronary angiography				CCN
	< 42 days after the index birth hospitalization discharge date	Death				RPDB

Assessment	Timing	Disease, procedure or measure	ICD-9 [ICD-10-CA] diagnostic codes in DAD, SDS and NACRS	CCP [CCI] procedural codes in DAD, SDS, NACRS	Diagnostic codes in OHIP	Other sources
Main study exposures	One delivery hospitalization was randomly chosen as the index birth for each woman (Main exposure)	Preeclampsia or eclampsia in the randomly selected index birth	642.4-642.7 [O11, O14, O15]			
	First delivery hospitalization in the study period (Additional analysis #2a)	Preeclampsia or eclampsia as a time- varying exposure	Same			
	Any delivery hospitalization in the study period, starting at the first delivery (Additional analysis #2b)	Preeclampsia or eclampsia as a time-varying exposure, assessing the number of times preeclampsia or eclampsia occurred (0, 1 or ≥ 2 times)	Same			
Study outcomes  If multiple sequential coronary angiographies, first was used	≥ 42 days after the index birth (delivery) discharge date ("time zero")	1) Coronary artery stenosis at coronary angiography				CCN - Having <u>any</u> of the following:  a) Left main (LM) ≥ 50% stenosis, or  b) Proximal left anterior descending (LAD) ≥ 70% stenosis, or  c) Mid or distal LAD ≥ 70% stenosis, or  d) Circumflex ≥ 70% stenosis, or  e) Right coronary artery (RCA) ≥ 70% stenosis

Assessment	Timing	Disease, procedure or measure	ICD-9 [ICD-10-CA] diagnostic codes in DAD, SDS and NACRS	CCP [CCI] procedural codes in DAD, SDS, NACRS	Diagnostic codes in OHIP	Other sources
	Same	2) Multi-vessel obstructive coronary artery stenosis at coronary angiography				one of the following:  a) No disease: < 50% stenosis in all coronary artery branches, or b) 1-vessel disease: ≥ 50% stenosis in one coronary artery, or c) 2-vessel disease: ≥ 50% stenosis in two coronary arteries (or ≥ 50% stenosis of the LM), or d) 3-vessel disease: ≥ 50% stenosis in three coronary arteries (or ≥ 50% stenosis in three coronary arteries (or ≥ 50% stenosis in three coronary arteries (or ≥ 50% stenosis in the LM and also ≥ 70% stenosis in the RCA).

Assessment	Timing	Disease, procedure or measure	ICD-9 [ICD-10-CA] diagnostic codes in DAD, SDS and NACRS	CCP [CCI] procedural codes in DAD, SDS, NACRS	Diagnostic codes in OHIP	Other sources
		3) Stenotic coronary artery disease with concomitantly reduced left ventricular function stenosis at coronary angiography				CCN - Having <u>any</u> of the following:  a) Left main (LM) ≥ 50% stenosis, or  b) Proximal left anterior descending (LAD) ≥ 70% stenosis, or  c) Mid or distal LAD ≥ 70% stenosis, or  d) Circumflex ≥ 70% stenosis, or  e) Right coronary artery (RCA) ≥ 70% stenosis <u>and concomitantly</u> left ventricular ejection
	Same	Death				fraction < 50% RPDB
Covariates	At the index birth hospitalization discharge date	Neighbourhood income quintile (1/missing, 2, 3, 4, 5)				RPDB, Statistics Canada census data
	Same	Residence (rural, urban/missing)				RPDB, Statistics Canada census data
	< 365 d before the index birth hospitalization discharge date	Diabetes mellitus	250, 648.8 [E10, E11, E13, E14, O244]		250	
	Same	Chronic hypertension	401, 405, 642.0-642.2, 642.7 [110, 115, O10, O11]		401	
	Same	Dyslipidemia	272.0, 272.1, 272.2, 272.3, 272.4, 272.5 [E78]		272	

		Diagona mucas duma am	ICD-9 [ICD-10-CA]	CCP [CCI] procedural	Diagnostic	
Assessment	Timing	Disease, procedure or measure	diagnostic codes in DAD, SDS and NACRS	codes in DAD, SDS, NACRS	Diagnostic codes in OHIP	Other sources
Assessment	Same	Renal disease	669.3, 958.5 634.3, 635.3,		403, 581, 585	
	Sallie	hellal ulsease	636.3, 637.3, 638.3,		403, 361, 363	
			639.3, 250.4x, 274.1x,			
			403.xx, 404.xx, 405.01,			
			405.11, 405.91, 440.1,			
			446.21, 581.xx, 582.xx,			
			583.xx, 584.5-584.9,			
			585.x, 586, 587.x, 588.0,			
			588.8x, 588.9, 590.0x,			
			593.7x, 791.0, 794.4 [O08.4, T79.5, O90.4,			
			E10.20, E10.21, E10.23, E11.20, E11.21, E11.23,			
			M10.39, I12, I13, I15.0,			
			170.1, M31.0, N01.x,			
			N03.x, N04.x, N05.x,			
			N06.x, N07.x, N08.x,			
			N11.x, N12, N13.7, N13.8,			
			N13.9, N14.x, N15.x,			
			N16.x, N17.x, N18.x,			
			N19.x, N25.0, N25.8,			
			N25.9, N26, R80, R94.4]			
	Same	Drug dependence or	291, 292, 2940, 303, 304,		291, 292, 303,	
	Same	tobacco use	305, 648.3, 649.0, 6555,		304, 305	
		tobacco use	980 [F10-F19, F55, G312,		304, 303	
			O354, O355, T51, T652,			
			Z720, Z721, Z722]			
	At the index birth	Pre-pregnancy body	2120, 2121, 2122]			BORN
	At the muck biltin	mass index				DOMN
		mass much				

Assessment	Timing	Disease, procedure or measure	ICD-9 [ICD-10-CA] diagnostic codes in DAD, SDS and NACRS	CCP [CCI] procedural codes in DAD, SDS, NACRS	Diagnostic codes in OHIP	Other sources
Censoring variables	From 42 days after the index birth hospitalization discharge date	Date of outward migration or loss of OHIP eligibility				RPDB
	December 31, 2020	End of study				
Variables for additional exposures occurring in conjunction with preeclampsia	Any delivery hospitalization	Preterm livebirth < 37 weeks' gestation	Before 2002: 644.2, 765 [O60, P07.2, P07.3] Since 2002: Gestational age < 37 completed weeks			
	Any delivery hospitalization	Stillbirth at 20+ weeks' gestation				MOMBABY: m_stillbirth='T'

BORN Better Outcomes Registry and Network; CCP Canadian Classification of Diagnoses and Procedures; CCI Canadian Classification of Interventions; DAD Discharge Abstract Database; ICD-9 International Classification of Diseases, 9th Revision; ICD-10-CA International Classification of Diseases, 10th Revision, Canada; NACRS National Ambulatory Care Reporting System; OHIP Ontario Health Insurance Plan; RPDB Registered Persons Database; SDS Same Day Surgery Database; CCN Cardiac Care Network of Ontario.

Table S2 (Additional analysis #1). Risk of developing obstructive coronary artery stenosis among women with vs. without a history of preeclampsia, January 2002 to March 2020, further adjusted for pre-pregnancy body mass index (BMI). The time zero index date starts 42 days after the index birth hospitalization discharge date. This analysis is limited to 286,836 women in whom pre-pregnancy BMI was known.

	Number of women with obstructive			
	coronary artery stenosis	Unadjusted	Adjusted	Fully adjusted
	(incidence rate per 10,000	hazard ratio	hazard ratio	hazard ratio
Exposure group	person years, 95% Cl)	(95% CI)	(95% CI) <sup>a</sup>	(95% CI) <sup>b</sup>
Women without preeclampsia (N = 278,841)	127 (0.52, 0.43 to 0.62)	1.00 (Referent)	1.00 (Referent)	1.00 (Referent)
Women with preeclampsia (N = 7995)	19 (2.72, 1.64 to 4.25)	5.28 (3.26 to 8.57)	3.30 (1.90 to 5.72)	1.94 (1.17 to 3.21)

<sup>&</sup>lt;sup>a</sup>Adjusted for maternal age, parity, neighbourhood income quintile (1 or missing, 2, 3, 4, 5), residence (rural, urban or missing) at the time of the index delivery, pre-pregnancy BMI, as well as diabetes mellitus, chronic hypertension, renal disease, illicit drug/tobacco use, and dyslipidemia within 365 days preceding the index date.

<sup>&</sup>lt;sup>b</sup>Further adjusted for time-varying diabetes mellitus, chronic hypertension, renal disease, drug dependence or tobacco use, and dyslipidemia – each arising at time zero onward, up to the day before the coronary angiography.

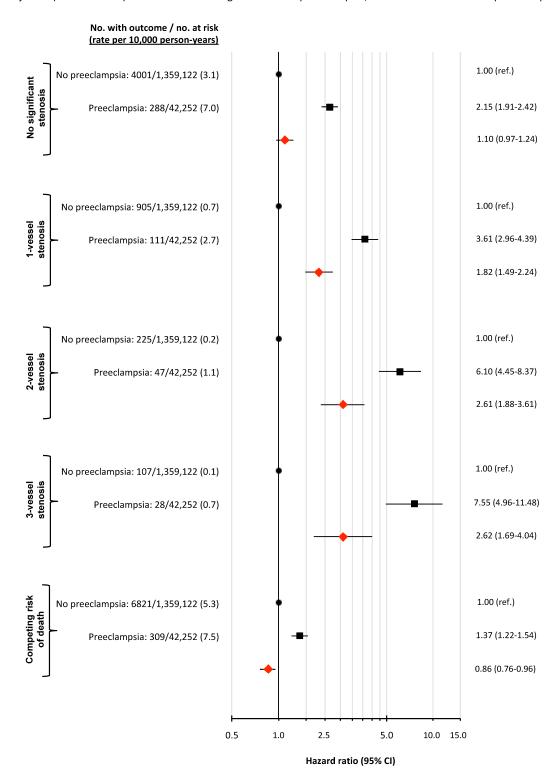
Table S3. Risk of developing obstructive coronary artery stenosis in relation to a history of preeclampsia as a time-varying exposure, starting at each woman's first birth in the study period, January 2002 to March 2020. Preeclampsia is modelled in a time-varying manner as absent or present (Additional analysis #2a [upper]), or as absent, occurring once, or occurring at least twice (Additional analysis 2b [lower]). The time zero index date starts 42 days after the first birth hospitalization discharge date.

	Number of women with obstructive coronary artery stenosis (incidence rate per 10,000	Fully adjusted hazard ratio
Time-varying exposure group (number of person-years of follow-up)	person years, 95% CI)	(95% CI)
Women without a history of preeclampsia (14,198,019 person-years)	1124 (0.79, 0.75 to 0.84)	1.00 (Referent)
Women with a history of preeclampsia (286,879 person-years)	108 (3.76, 3.09 to 4.55)	1.72 (1.40 to 2.11) <sup>a</sup>
Women without preeclampsia (14,198,019 person-years)	1124 (0.79, 0.75, 0.84)	1.00 (Referent)
Women with preeclampsia once (275,802 person-years)	102 (3.70, 3.02 to 4.49)	1.65 (1.34 to 2.04) <sup>b</sup>
Women with preeclampsia at least twice (11,077 person-years)	6 (5.42, 1.99 to 11.79)	1.63 (0.73 to 3.64) <sup>b</sup>

<sup>&</sup>lt;sup>a</sup>Adjusted for maternal age, parity, neighbourhood income quintile (1 or missing, 2, 3, 4, 5), residence (rural, urban or missing) at the time of the first delivery, as well as time-varying diabetes mellitus, chronic hypertension, renal disease, drug dependence or tobacco use, and dyslipidemia – each arising at time zero onward, up to the day before the coronary angiography.

<sup>b</sup>Adjusted for maternal age, neighbourhood income quintile (1 or missing, 2, 3, 4, 5), residence (rural, urban or missing) at the time of the first delivery, as well as time-varying parity, diabetes mellitus, chronic hypertension, renal disease, drug dependence or tobacco use, and dyslipidemia – each arising at time zero onward, up to the day before the coronary angiography.

Figure S1. Risk of multi-vessel obstructive coronary artery stenosis<sup>a</sup> associated with a history of preeclampsia. Shown are unadjusted (*black squares*) and adjusted (*red diamonds*) hazard ratios<sup>b</sup> among women with preeclampsia, relative to those without preeclampsia (*black circles*)



<sup>&</sup>lt;sup>a</sup>a) No stenotic disease: < 50% stenosis in all coronary arteries, b) 1-vessel disease: ≥ 70% stenosis in one coronary artery, excluding left main coronary artery, c) 2-vessel disease: ≥ 70% stenosis in two coronary arteries (or ≥ 50% stenosis of left main coronary artery, or d) 3-vessel disease: ≥ 70% stenosis in three coronary arteries (or ≥ 50% stenosis in left main coronary artery + ≥ 70% stenosis in right coronary artery).

<sup>&</sup>lt;sup>b</sup>Hazard ratios were generated using a competing risk model, and adjusted for maternal age, parity, income quintile, urban/rural residence, diabetes mellitus, chronic hypertension, renal disease, illicit drug/tobacco use, and dyslipidemia – each within 365 days preceding the index date, and further adjusted for time-varying type 1 or type 2 diabetes mellitus, chronic hypertension, renal disease, drug dependence or tobacco use, and dyslipidemia – each arising at 42 days after the index birth up to the day before the coronary angiography.