

Supplementary Online Content

Silverberg O, Park AL, Cohen E, Fell DB, Ray JG. Premature cardiac disease and death in women whose infant was preterm and small for gestational age: a retrospective cohort study. *JAMA Cardiol*. Published online January 31, 2018. doi:10.1001/jamacardio.2017.5206

eTable. Variables Used to Define Cohort Entry/Exclusion Criteria and Study Exposure, Outcome, and Adjustment Variables

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable. Variables Used to Define Cohort Entry/Exclusion Criteria and Study Exposure, Outcome, and Adjustment Variables

| Assessment | Timing | Disease or procedure | ICD-9 [ICD-10-CA] codes | OHIP ICD-9 codes {or other source if in parentheses} | PubMed link to a related validation study of some codes |
|---|--|--|---|---|--|
| <i>Cohort entry criterion</i> | April 1, 2002 to March 31, 2015 | Any nulliparous woman with a singleton livebirth in hospital at \geq 23 weeks' gestation | Main patient service code indicating "obstetrical delivery" (in MOMBABY). | | |
| <i>Cohort exclusion criteria</i> | \leq 24 months prior to, and including, the first index obstetrical delivery admission | Cardiac dysrhythmia | 427.3 [I48], 427.1 [I47.2], 427.4 [I49.0], 427.2 [I47.2] | 427 | |
| | Same | Heart failure | 428 [I50] | 428 | |
| | Same | Pericardial, endocardial or myocardial disease, cardiomyopathy or peripartum cardiomyopathy or rheumatic or valvular heart disease | 420-425 [I30-I43], 674.5 [O90.3], 390-392 [I00-I02, I05-I09] | 398 | |

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|----------------------------|--|---|--|---|---|
| | Same | Congenital heart disease | 745-746, 7470, 7471, 7472, 7473, 7474 [Q20-Q26] | 745-747 | |
| | Same | Coronary artery disease | 410, 411, 413, 414.0, 429.2, 48* [I20, I21, I24, I25.0, I25.1, I51.3, 1HZ80*, 1IJ50*, 1IJ55*, 1IJ57*, 1IJ76* 1IJ80*, 1IK80*, 1IK87*, 1IL35*, 2IL70*, 3IP10*] | 410, 412, 413, 429 | |
| Main study exposure | At birth | Preterm birth at 23 to 36 weeks' gestation | MOMBABY dataset | | https://www.ncbi.nlm.nih.gov/pubmed/21733347 |
| | Same | Severe SGA birthweight < 5th percentile for sex and gestational age | MOMBABY dataset | | |
| Study outcomes | Starting at 30 days after the index birth date (May 1, 2002 to March 31, 2016) = "t ₀ " | Maternal cardiac arrhythmia <ul style="list-style-type: none"> • Atrial fibrillation or flutter • Ventricular tachycardia or fibrillation | <ul style="list-style-type: none"> • 427.3 [I48.0, I48.1] • 427.1 [I47.2], 427.4 [I49.0], 427.2 [I47.9] | | https://www.ncbi.nlm.nih.gov/pubmed/12177647 |

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|-------------------|--|----------------------------------|--|--|---|
| | Same | Maternal heart failure | 428 [I50] | | https://www.ncbi.nlm.nih.gov/pubmed/12177647 |
| | Same | Maternal coronary artery disease | 410, 411, 413, 414.0, 429.2, 48* [I20, I21, I24, I25.0, I25.1, I51.3, 1HZ80*, 1IJ50*, 1IJ55*, 1IJ57*, 1IJ76* 1IJ80*, 1IK80*, 1IK87*, 1IL35*, 2IL70*, 3IP10*] | | https://www.ncbi.nlm.nih.gov/pubmed/21979370 |
| | Same | Maternal death | {Registered Persons Database, which contains demographic information and encrypted healthcare numbers for all individuals eligible for OHIP} | | |
| Covariates | ≤ 24 months before the index birth date or time-varying thereafter | Diabetes mellitus | 250, 648.8 [E10, E11, E13, E14, O244] | 250 | https://www.ncbi.nlm.nih.gov/pubmed/11874939 |
| | Same | Chronic hypertension | 401, 405, 642.0-642.2, 642.7 [I10, I15, O10, O11] | 401 | https://www.ncbi.nlm.nih.gov/pubmed/19858407 |
| | Same | Obesity | 278.0 [E66] | 278 | |

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|-------------------|--------------------|-------------------------------------|---|---|---|
| | Same | Dyslipidemia | 272.0-272.5 [E78] | 272 | |
| | Same | Drug dependence or smoking | 291, 292, 2940, 303, 304, 305, 648.3, 6490 [F10-F19, F55] | 291, 292, 303, 304, 305 | |
| | Same | Kidney disease | 403, 404, 58, 5937 [N17.x, O08.4, T79.5, O90.4, E10.20, E10.21, E10.23, E11.20, E11.21, E11.23, M10.39, I12, I13, I15.0, I70.1, 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, N18.x, N19.x, N25.0, N25.8, N25.9, N26, R80, R94] | 403, 58 | https://www.ncbi.nlm.nih.gov/pubmed/23560464 |
| | At the index birth | Preeclampsia or eclampsia | 642.4, 642.5, 642.6, 642.7 [O11, O14, O15] | | https://www.ncbi.nlm.nih.gov/pubmed/19527567 |
| | Same | Maternal area-level income quintile | | { Statistics Canada census data} | |

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|------------|--------|--------------------------------|-------------------------|--|---|
| | Same | Maternal World region of birth | | {Immigration, Refugees and Citizenship Canada Permanent Resident database} | |

*Indicates coding by Canadian Classification of Procedures (corresponding to ICD-9 years) or Canadian Classification of Interventions (corresponding to ICD-10-CA years)

ICD-9: International Classification of Diseases, 9th Revision.; ICD-10-CA: International Classification of Diseases, 10th Revision, Canada; OHIP: Ontario Health Insurance Plan.