

### Data dictionary for candidate predictors

No.	Variable name	Description	Format	Response options	Note
1.	bmi	Women's BMI (kg/m <sup>2</sup> )	Continuous	99 = Not stated/missing	Weights were collected at different time points in NPDC (record in the first trimester of pregnancy), VPDC (self-reported at conception) and QPDC (self-reported four to six weeks prior to or at conception).
2.	cob_region	Women's country of birth grouped into broad regions	Categorical	1 = Australia (includes External Territories) 2 = Oceania and antarctica (excludes Australia) 3 = Europe 4 = Africa 5 = Asia 6 = America 9 = Not stated/missing	Women's country of birth was categorized based on the Standard Australian Classification of Countries (SACC) used by the Australian Bureau of Statistics (ABS) (1).
3.	gest_diab	Gestational diabetes during current pregnancy	Dichotomous	1 = Yes 0 = No/ not stated/missing	As collected and defined in the NPDC and VPDC.  O244 (ICD-10-AM code) reported in pregnancy complications collected in the QPDC.
4.	gest_hyper	Gestational hypertension during current pregnancy	Dichotomous	1 = Yes 0 = No/ not stated/missing	As collected and defined in the NPDC and VPDC.  O13 (ICD-10-AM code) reported in pregnancy complications in the QPDC.
5.	gest_weeks	Weeks of gestation at birth	Categorical	37 = 37 <sup>+0</sup> - 37 <sup>+6</sup> 38 = 38 <sup>+0</sup> - 38 <sup>+6</sup> 39 = 39 <sup>+0</sup> - 39 <sup>+6</sup>	As collected and defined in the NPDC, VPDC and QPDC.

				$40 = 40^{+0} - 40^{+6}$ $41 = 41^{+0} - 41^{+6}$ 99 = Not stated/missing	
6.	gest_weeks_first_visit	Weeks of gestation at first antenatal visit	Continuous	99 = Not stated/missing	As collected and defined in the NPDC, VPDC and QPDC.
7.	gravidity	Number of previous pregnancies	Continuous	99 = Not stated/missing	As collected and defined in the NPDC, VPDC and QPDC.
8.	mother_age	Women' age at time of giving birth	Continuous	99 = Not stated/missing	As collected and defined in the NPDC, VPDC and QPDC.
9.	num_ant_visit	Number of total antenatal visits	Continuous	99 = Not stated/missing	As collected and defined in the NPDC, VPDC and QPDC.
10.	parity	Whether women gave birth before current pregnancy (live births or stillbirths of at least 20 weeks of gestation and/or at least 400 grams in weight)	Categorical	0 = No (nulliparous) 1 = Yes (parous with prior vaginal birth) 9 = Not stated/missing	As collected and defined in the NPDC, VPDC and QPDC.
11.	pre_diab	Pre-existing diabetes (any type)	Dichotomous	1 = Yes 0 = No/ not stated/missing	As collected and defined in the NPDC and VPDC.  E10-E14 or O24 (ICD-10-AM code) reported in current medical conditions in the QPDC.
12.	pre_hyper	Pre-existing hypertension (any type)	Dichotomous	1 = Yes 0 = No/ not stated/missing	As collected and defined in the NPDC and VPDC.  I11-I15 or O10 or O11 (ICD-10-AM code) reported in current medical conditions in the QPDC.

13.	preeclampsia	Preeclampsia during current pregnancy	Dichotomous	1 = Yes 0 = No/ not stated/missing	As collected and defined in the NPDC and VPDC.  O11, O14 or O15 (ICD-10-AM code) reported in current medical conditions in the QPDC.
14.	private_hospital	Giving birth in private or public hospitals	Categorical	1 = Yes 0 = No 9 = Not stated/missing	As collected and defined in the NPDC, VPDC and QPDC.
15.	rurality	Women's residential area's rurality group	Ordinal	1 = Major cities of Australia 2 = Inner regional Australia 3 = Outer regional Australia 4 = Remote Australia 5 = Very remote Australia 9 = Not stated/missing/migratory-offshore-shipping/no usual address	Rurality was categorized based on the postcode of usual residence using the Accessibility/Remoteness Index of Australia (ARIA+) used by the Australian Bureau of Statistics (ABS) (2).  2011 release was used by the NPDC. 2016 release was used for VPDC and QPDC.
16.	seifa	Women's residential area of socioeconomic disadvantage	Ordinal	1 = Quintile 1 (the most disadvantaged) 2 = Quintile 2 3 = Quintile 3 4 = Quintile 4 5 = Quintile 5 (the least disadvantaged) 9 = Not stated/missing	Socioeconomic status was categorized based on the postcode of usual residence using the Index of Relative Socio-economic Disadvantage (IRSD) in the Socio-Economic Indexes for Areas (SEIFA) - a classification system developed by the Australian Bureau of Statistics (ABS) that ranks geographic areas across Australia according to relative socio-economic advantage and disadvantage (3).

					2011 release was used by the NPDC. 2016 release was used for VPDC and QPDC.
17.	smoke_a20	Smoke after 20 weeks of gestation	Categorical	1 = Yes 0 = No 9 = Not stated/missing	As collected and defined in the NPDC and VPDC.
18.	smoke_b20	Smoke before 20 weeks of gestation	Categorical	1 = Yes 0 = No 9 = Not stated/missing	As collected and defined in the NPDC and VPDC.

Abbreviations: BMI=Body Mass Index; NPDC=New South Wales Perinatal Data Collection; VPDC=Victoria Perinatal Data Collection; QPDC=Queensland Perinatal Data Collection.

## References

1. Australian Bureau of Statistics. Standard Australian Classification of Countries (SACC) Canberra: ABS; 2016 [2024 August 14]. Available from: <https://www.abs.gov.au/statistics/classifications/standard-australian-classification-countries-sacc/latest-release>.
2. Australian Bureau of Statistics. Remoteness Areas Canberra: ABS; Jul2021-Jun2026 [2024 August 14]. Available from: <https://www.abs.gov.au/statistics/standards/australian-statistical-geography-standard-asgs-edition-3/jul2021-jun2026/remoteness-structure/remoteness-areas>.
3. Australian Bureau of Statistics. Socio-Economic Indexes for Areas (SEIFA), Australia: ABS; 2021 [Available from: <https://www.abs.gov.au/statistics/people/people-and-communities/socio-economic-indexes-areas-seifa-australia/2021>].