

Supplementary Appendices

Supplementary Appendix 1: Information on how the source records that feed into the national datasets used to compile SLiPBD are generated and returned to PHS

Dataset	Generation of source records	Timeliness
NRS statutory live and stillbirth registrations	Parents are legally required to register live and stillbirths through their local registration office	Live and stillbirths must be registered within 21 days of birth. NRS submits completed registration records to PHS on a weekly basis
Termination of pregnancy notifications (Abortion Act Scotland [AAS] statutory records to April 2022, Termination of Pregnancy Submissions Scotland [ToPSS] non-statutory records from May 2022)	Doctors providing a termination are legally required to notify the event to the Chief Medical Officer. Previously, these notifications were then submitted by the CMO to PHS for entry into the AAS database. More recently, the NHS service providing a termination is also responsible for entering a record of the event directly into the ToPSS database which is managed by PHS	Terminations must be notified to the CMO within 7 days of occurrence. Previously, notifications were then submitted to PHS and entered into the AAS database by data management staff within 6 weeks. More recently, clinical or administrative staff within local services record terminations in ToPSS within 30 days of occurrence
Scottish Morbidity Record (SMR) 01 general, and SMR02 maternity, hospital discharge records	The NHS service providing a patient's hospital care is responsible for submitting an SMR record of the event to PHS. SMR records are partially extracted from local electronic patient record systems and completed with input from administrative and clinical coding staff	SMR records are returned to PHS within 6 weeks of the end of the month in which the patient was discharged
Antenatal Booking Collection (ABC) records	The NHS service providing a patient's booking care is responsible for submitting an ABC record of the event to PHS. ABC records are extracted from local maternity electronic patient record systems	ABC records are returned to PHS on a weekly basis

See <https://publichealthscotland.scot/services/national-data-catalogue/> for information on the various source national datasets held by Public Health Scotland.

In general, PHS runs extracted or submitted source records through automated validation and CHI seeding processes on a monthly basis, and uploads validated records into the relevant national datasets for analysis. The monthly updates of SLiPBD are timed to closely follow the monthly updates of source national datasets to maximise timeliness.



Supplementary Appendix 2: Information on the variables and codes used to identify specific end of pregnancy events in relevant national datasets

Dataset	End of pregnancy event	Notes
NRS statutory live birth registrations	Live birth	All records indicate specified event
NRS statutory stillbirth registrations	Stillbirth Termination of pregnancy	All records indicate a stillbirth The subset with ICD-10 code P96.4 recorded also indicate termination of pregnancy
Termination of pregnancy notifications (AAS and ToPSS)	Termination of pregnancy	All records indicate specified event
Scottish Morbidity Record (SMR) 01 general hospital discharge records	Spontaneous early pregnancy loss	ICD-10 codes: Ectopic Pregnancy: O00 Molar Pregnancy: O01 Miscarriage: O02.0–O02.9; O03.5–O03.9; O05.5–O05.9; O065–O06.9
Scottish Morbidity Record (SMR) 02 maternity hospital discharge records	Spontaneous early pregnancy loss Termination of pregnancy	SMR02 hard coded variables Ectopic Pregnancy: Condition on Discharge = 2, Type of abortion = 6 Molar Pregnancy: Condition on Discharge = 2, Type of abortion = 3 Miscarriage: Condition on Discharge = 2, Type of abortion = 1, 2, 8, or 9 Termination: Condition on Discharge = 2, Type of abortion = 4
Scottish Morbidity Record (SMR) 02 maternity hospital discharge records	Live or stillbirth (to provide additional clinical information to supplement NRS statutory registration records)	SMR02 hard coded variables Live Birth: Condition on Discharge = 3, Outcome of pregnancy = 1, 3, 4, or 5 Stillbirth: Condition on Discharge = 3, Outcome of pregnancy = 2

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