

### Appendix 7: Secondary Data Sources, Description, and Usage for the ABC-QI Trial.

Source	Description and Usage
Alberta Health Services Enterprise Data Warehouse Services (EDWS)	The EDWS department is responsible for integrating data from multiple source systems to support measurement and reporting services. Used to capture information about the utilization of healthcare resources within 30 days after discharge home.
Discharge Abstract Database (DAD)	The DAD contains administrative, clinical, and demographic information on hospital discharges (including deaths, sign-outs, and transfers). Used to capture rehospitalization within 30 days of discharge.
National Ambulatory Care Reporting System (NACRS)	The NACRS contains data for all hospital-based and community-based ambulatory care. Used to capture emergency room visits within 30 days of discharge.
Alberta Vital Statistics	Alberta Vital Statistics contains birth and death records. Used to capture infant mortality up to 1 year of age.
Canadian Institute for Health Information Patient Cost Estimator (PCE)	PCE is an interactive tool to estimate the average cost of healthcare services provided in hospitals. Used to calculate the daily cost based on the Case Mix Groups for gestational age and birth weight.

**Data linkage process:** after completion of the study, the PI will submit a request to the above-mentioned data sources through Alberta Health Services Enterprise Data Warehouse Services to obtain post discharge data using patients' Unique Lifetime Identifier (ULI) numbers. Once the data is obtained, the linkage process will be completed at the data coordinating centre at University of Alberta by the study database analyst. Linked data will be available for the PI (AAM) and the study biostatistician (PF) for analysis.