

Appendix 3. BORN Information system (BIS), international classification of diseases (tenth revision, Canada), and Canadian classification of health interventions variables used to code the AOI. BORN Information system (BIS), international classification of diseases (tenth revision, Canada), and Canadian classification of health interventions variables used to code the AOI.

Adverse outcome indicator (AOI)	Source	Variable	Coding	Coding Description
Maternal death	BIS	maternal_outcome_id	1016480, 1016470	Maternal Death (<i>one of any code listed</i>)
	ICD-10-CA		O95, O97	
	DAD	discharge_disposition	07	
Uterine rupture during labour	BIS	indication_for_CS_id	1023900	Maternal\Uterine rupture <i>OR</i>
		lbr_and_birth_complication_id	1014600	Uterine rupture <i>OR</i>
	ICD-10-CA		O7118	Uterine rupture during labour
Maternal ICU admission	DAD	scu_code_1- scu_code_6	10 20 25 30 35 40 45 60 70 90 93 95	Any ICU Unit or Step-down Medical or Surgical Unit <i>OR</i>
	CCI		1GJ50CANG, 1GJ50CATS	Insertion of endotracheal tube or intubation with other tube <i>OR</i>
			1GZ31CBND	Positive pressure ventilation, non-invasive <i>OR</i>
			1GZ31CAND, 1GZ31CRND, 1GZ31GPN D	Positive pressure ventilation, via invasive route <i>OR</i>
			1GZ38JAND, 1GZ38JANE	Management (adjustment, initiation, weening) of positive pressure ventilator or positive end expiratory pressure ventilator (PEEP) <i>OR</i>
			1GZ30CJ, 1GZ30JH	Resuscitation <i>OR</i>
	BIS	maternal_outcome_id	1016500	Transfer to ICU/CCU
Unanticipated operative procedure	CCI		5MD60KE, 5MD60RC, 5MD60CB, 5MD60RD	Caesarean hysterectomy <i>OR</i>
			1RM.89LA (exclude if 1PL74, 1RS74 or 1RS80 also present)	Total hysterectomy, open approach <i>OR</i>
			1RM87LA-GX	Subtotal hysterectomy, open approach <i>OR</i>
			1.PZ.21^^	Dialysis, urinary system NEC

				<i>OR</i>
			5PC73JS	Evacuation of incisional hematoma <i>OR</i>
			5PC80JM	Reclosure of caesarean wound <i>OR</i>
			5PC80JR, 1NK80^^, 1NM80^^	Repair of bladder, urethra or intestine <i>OR</i>
			(1RM13^^ or 1KT51 or 5PC91LA) + O72	Embolization or ligation of pelvic vessels or suturing of uterus (e.g., B-Lynch suture) & postpartum hemorrhage <i>OR</i>
			5PC91GA	Dilation and curettage, following delivery <i>OR</i>
			5PC91GC	Aspiration and curettage, following delivery <i>OR</i>
			5PC91HT	Uterine (and vaginal) packing, following delivery
Maternal blood transfusion	CCI		1LZ19HHU, 1LZ19HHU9, 1LZ19HMU1, 1LZ19HMU9	Transfusion of blood or blood products <i>OR</i>
	ICD-10-CA		Z513	Blood transfusion (without reported diagnosis) <i>OR</i>
	DAD	Mom_BLOOD_TRANSFUSION_IND	Y	Blood transfusion/blood products received during hospitalization
3rd or 4th degree perineal tear	BIS	perineal_laceration_id	1019960, 1019970	3 rd degree, 4 th degree
Intrapartum or in- hospital newborn death with birth weight ≥2,500g with no congenital anomalies	BIS	b_birth_weight_gramms	≥2500	Greater than or equal to 2500 grams <i>AND</i>
		neonatal_death_id	1018200	Neonatal Death <i>OR</i>
		pregnancy_outcome_id	1021090	Intrapartum stillbirth <i>OR</i>
	DAD	b_rectype	1	Stillbirth <i>OR</i>
		baby_b_rectype AND baby_discharge_disposition	2, 3 07	(Live birth <i>AND</i> Death) <i>OR</i>
		baby_nnd	1	Neonatal death
	ICD-10-CA		Q00-Q99	<i>EXCLUDE</i> Congenital anomalies

Birth trauma	BIS	newborn_condition_cmplctn_id	1018421 1018422 1018423 1018340 1018341 1018380 1018381 1018424 1018425	<i>One of:</i> Intracranial hemorrhage, Subarachnoid hemorrhage, Subdural hemorrhage, Brachial plexus injury, Facial nerve injury, unspecified birth injury, other birth injury <i>OR</i>
		neonatal_health_problem_id	1026340	Birth Trauma <i>OR</i>
	ICD-10-CA		P10.1, P10.2, P10.3, P12.2, P13 (excluding P13.4), P11.5, P11.3, P14.0, P14.1, P14.3, P11.4, P14.2, P14.8, P14.9	<i>One of:</i> Hemorrhage (cerebral, intraventricular or subarachnoid, epicranial subaponeurotic) due to birth injury, birth injury to skeleton (excluding fracture of clavicle), birth injury to spine and spinal cord or facial nerve, paralysis (Erb's, Klumpke's, phrenic nerve) due to birth injury, other brachial plexus injuries, birth injury to other cranial nerves, birth injury to other perph nervous system
NICU admission for 2 days or more, or transfer within 24 hours of birth, for infants with birthweight greater or equal to 2500 grams, without congenital anomalies	BIS	birth_weight_gramms	≥2500	Greater than or equal to 2500 grams <i>AND</i>
	DAD	scu_code_1- scu_code_6 <i>AND</i> total_scu_los_hours	50 51 52 53 >48	NICU Unit <i>AND</i> NICU length of stay greater than 48 hours <i>OR</i>
		xfer_scu1-xfer_scu24 <i>AND</i> xfer_admission_date_1 minus birthdate	1 ≤ 1	Transfer to SCU unit <i>AND</i> Date of transfer within 1 day of birth
	ICD-10-CA		Q00-Q99	<i>EXCLUDE</i> Congenital anomalies
5-min Apgar score < 7	BIS	apgar05_id	<7	Apgar Score less than 7