

APPENDIX J - PERINATAL MORTALITY CLASSIFICATIONS – QUICK REFERENCE SHEET

PSANZ-PDC			
1 Congenital Anomaly		3.2 Chronic hypertension: secondary, e.g. renal disease	7.43 Alloimmune thrombocytopenia
1.1 Structural anomaly		3.3 Chronic hypertension: unspecified	7.48 Other
1.11 Nervous system		3.4 Gestational hypertension	7.49 Unspecified
1.12 Cardiovascular system		3.5 Pre-eclampsia	7.5 Fetal antenatal intracranial injury
1.13 Genitourinary system		3.6 Pre-eclampsia superimposed on chronic hypertension	7.51 Subdural haematoma
1.14 Gastrointestinal system		3.9 Unspecified hypertension	7.52 Fetal antenatal ischaemic brain injury
1.15 Musculoskeletal			7.53 Fetal antenatal haemorrhagic brain injury
1.151 Congenital diaphragmatic hernia		4 Antepartum Haemorrhage (APH)	7.6 Other specific perinatal conditions
1.152 Gastroschisis/omphalocele		4.1 Placental abruption	7.61 Complications of antenatal, diagnostic or therapeutic procedures:
1.16 Respiratory system (include congenital pulmonary airway malformation (CPAM))		4.2 Placenta praevia	7.611 Complications of prenatal diagnostic procedures (e.g. amniocentesis, chorionic villus sampling,) (e.g. rupture of membranes after amniocentesis)
1.17 Haematological		4.3 Vasa praevia	7.612 Complications of fetal ultrasound guided needle interventions (e.g. FBS/fetal transfusion, thoracocentesis, vesicocentesis, fetal cardiac valvoplasty, division of amniotic bands, fetal skin biopsy, unipolar/bipolar diathermy, RFA procedures)
1.18 Multiple Congenital anomaly (no chromosomal/genetic cause or not tested)		4.9 APH of undetermined origin	7.613 Complications of fetal shunt interventions (e.g. pleuroamniotic shunt, vesicoamniotic shunt)
1.19 Other congenital abnormality		5 Maternal Conditions	7.614 Complications of minimally invasive fetoscopic interventions (e.g. fetoscopic laser surgery for TTTS, FETO for CDH, laser ablation of posterior urethral valves)
1.192 Idiopathic hydrops fetalis		5.1 Termination of pregnancy for maternal psychosocial indications	7.615 Complications of open maternal fetal surgery (e.g. open maternal fetal surgery for spina bifida)
1.193 Fetal tumour (include sacro-coccygeal teratoma)		5.2 Diabetes	7.618 Other
1.198 Other specified		5.21 Gestational diabetes	7.62 Termination of pregnancy for suspected but unconfirmed congenital anomaly.
1.199 Congenital anomaly, unspecified		5.22 Pre-existing diabetes	7.63 Amniotic band
1.2 Chromosomal anomaly		5.3 Maternal injury	7.68 Other
1.21 Down syndrome (trisomy 21)		5.31 Accidental	7.9 Unspecified
1.22 Edward syndrome and Patau syndrome (trisomy 18, trisomy 13)		5.32 Non-accidental	
1.23 Other trisomies and partial trisomies of the autosomes, not elsewhere classified (includes pathogenic duplications, unbalanced translocations and insertions)		5.4 Maternal sepsis	8 Hypoxic peripartum death
1.24 Monosomies and deletions from the autosomes, not elsewhere classified (includes pathogenic deletions e.g. 22q11.2 deletion syndrome (diGeorge syndrome), Wolff-Hirschorn syndrome, Cri-du-chat syndrome)		5.5 Antiphospholipid syndrome	8.1 With intrapartum complications (sentinel events)
1.25 Turner syndrome (monosomy X)		5.6 Obstetric cholestasis	8.11 Uterine rupture
1.26 Other sex chromosome abnormalities (e.g. Klinefelter syndrome)		5.8 Other specified maternal conditions	8.12 Cord prolapse
1.28 Other chromosomal abnormalities, not elsewhere specified (includes Fragile X syndrome, imprinting syndromes, triploidy)		5.31 Maternal suicide	8.13 Shoulder dystocia
1.29 Unspecified		5.32 Other specified maternal medical or surgical conditions	8.14 Complications of breech presentation
1.3 Genetic anomaly			8.15 Birth trauma
1.31 Genetic condition, specified (e.g. Tay-Sachs disease; includes inborn errors of metabolism)		6 Specific Perinatal Conditions	8.16 Intrapartum haemorrhage
1.32 Syndrome/association with demonstrated chromosomal/gene anomaly.		6.1 Monochorionic twins	8.18 Other
1.39 Genetic condition, unspecified		6.11 Twin to twin transfusion syndrome (TTTS)	8.2 Evidence of significant fetal compromise (excluding other complications)
2 Perinatal Infection		6.12 Selective fetal growth restriction (FGR) (i.e. affecting only one twin)	8.3 No intrapartum complications recognised and no evidence of significant fetal compromise identified
2.1 Bacterial		6.13 Monoamniotic twins (including cord entanglement)	8.9 Unspecified hypoxic peripartum death
2.11 Group B Streptococcus		6.18 Other	
2.12 E coli		6.19 Unknown or unspecified	9 Placental dysfunction or causative placental pathology
2.13 Listeria monocytogenes		6.2 Dichorionic twins	9.1 Maternal vascular malperfusion
2.14 Spirochaetal e.g. Syphilis		6.21 Early fetal death in a multiple pregnancy (<20 weeks gestation)	9.2 Fetal vascular malperfusion
2.18 Other bacterial		6.22 Selective fetal growth restriction (FGR)	9.3 High grade villitis of unknown etiology (VUE)
2.19 Unspecified bacterial		6.28 Other	9.4 Massive perivillous fibrin deposition/maternal floor infarction
2.2 Viral		6.29 Unknown or unspecified	9.5 Severe chronic intervillitis (Histiocytic intervillitis)
2.21 Cytomegalovirus		6.3 Complications of higher order multiples (3 or more fetuses)	9.6 Placental hypoplasia
2.22 Parvovirus		6.31 Twin to twin transfusion syndrome (TTTS)	9.7 No causal placental pathology demonstrated, with antenatal evidence of poor placental function identified (such as abnormal fetal umbilical artery Doppler)
2.23 Herpes simplex virus		6.32 Selective fetal growth restriction (FGR)	9.8 Placental pathological examination was not performed, with antenatal evidence of poor placental function identified (such as abnormal fetal umbilical artery Doppler)
2.24 Rubella virus		6.33 Monoamniotic multiples (including cord entanglement)	9.9 Other placental pathology (e.g. multiple pathologies with evidence of loss of placental function leading to death)
2.25 Zika virus		6.34 Early fetal death in a multiple pregnancy (<20 weeks gestation)	
2.28 Other viral		6.38 Other	10 Spontaneous preterm labour or rupture of membranes (<37 weeks gestation)
2.29 Unspecified viral		6.39 Unknown or unspecified	10.1 Spontaneous preterm
2.3 Protozoal e.g. Toxoplasma		6.4 Complications where chorionicity is unknown	10.11 With histological chorioamnionitis
2.5 Fungal		6.8 Other	10.12 Without histological chorioamnionitis
2.8 Other specified organism		6.9 Unspecified	10.13 With clinical evidence of chorioamnionitis, no examination of placenta
2.9 Other unspecified organism		7 Specific perinatal conditions	10.17 No clinical signs of chorioamnionitis, no examination of placenta
3 Hypertension		7.1 Fetomaternal haemorrhage	10.19 Unspecified or not known whether placenta examined
3.1 Chronic hypertension: essential		7.2 Antepartum cord or fetal vessel complications (excludes monochorionic twins or higher order multiples)	
		7.21 Cord vessel haemorrhage	
		7.22 Cord occlusion (True knot with evidence of occlusion or other)	
		7.28 Other cord complications	
		7.29 Unspecified cord complications	
		7.3 Uterine abnormalities	
		7.31 Developmental anatomical abnormalities (e.g. bicornuate uterus)	
		7.38 Other	
		7.39 Unspecified	
		7.4 Alloimmune disease	
		7.41 Rhesus isoimmunisation	
		7.42 Other red cell antibody	

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- 10.2 Spontaneous preterm preceded by premature cervical shortening
- 11 Unexplained antepartum fetal death**
- 11.1 Unexplained antepartum fetal death despite full investigation
- 11.2 Unclassifiable antepartum fetal death with incomplete investigation
- 11.3 Unclassifiable antepartum fetal death due to unknown level of investigation

- 12 Neonatal death without obstetric antecedent**
- 12.1 Neonatal death with no obstetric antecedent factors despite full investigation
- 12.2 Neonatal death unclassifiable as to obstetric antecedent with incomplete investigation
- 12.3 Neonatal death unclassifiable as to obstetric antecedent due to unknown level of investigation

PSANZ-NDC

1 Congenital Anomaly (Please refer to PSANZ PDC)

2 Periviable infants (typically <24 weeks)

- 2.1 Not resuscitated (including infants where there is an antenatal plan for no resuscitation at birth or in the circumstance of re-directed care)
- 2.2 Unsuccessful resuscitation
- 2.9 Unspecified or not known whether resuscitation attempted

3 Cardio-respiratory disorders

- 3.1 Hyaline membrane disease / Respiratory distress syndrome (RDS)
- 3.2 Meconium aspiration syndrome
- 3.3 Primary persistent pulmonary hypertension
- 3.4 Pulmonary hypoplasia
- 3.5 Pulmonary haemorrhage
- 3.6 Air leak syndromes
- 3.61 Pneumothorax
- 3.62 Pulmonary interstitial emphysema
- 3.63 Other
- 3.7 Patent ductus arteriosus
- 3.8 Chronic neonatal lung disease (typically, bronchopulmonary dysplasia)
- 3.9 Other
- 3.91 Neonatal anaemia/hypovolaemia

4 Neonatal infection

- 4.1 Congenital/Perinatal bacterial infection (early onset<48 hrs)
- 4.11 Blood stream infection/septicaemia
- 4.111 Positive culture of a pathogen
- 4.112 Clinical signs of sepsis + ancillary evidence but culture negative
- 4.12 Bacterial meningitis
- 4.13 Bacterial pneumonia
- 4.15 Multiple site bacterial infection
- 4.18 Other congenital bacterial infection e.g. gastroenteritis, osteomyelitis, cerebral abscess
- 4.19 Unspecified congenital infection
- 4.2 Congenital/Perinatal viral infection
- 4.3 Congenital fungal, protozoan, parasitic infection
- 4.4 Acquired bacterial infection (late onset>48hrs).
- 4.41 Blood stream infection/septicaemia
- 4.411 Positive culture of a pathogen
- 4.412 Clinical signs of sepsis + ancillary evidence but culture negative
- 4.42 Bacterial meningitis
- 4.43 Bacterial pneumonia
- 4.48 Other acquired bacterial infection e.g. gastroenteritis, osteomyelitis
- 4.49 Unspecified acquired infection
- 4.5 Acquired viral infection
- 4.6 Acquired fungal, protozoan, parasitic infection

5 Neurological

- 5.1 Hypoxic ischaemic encephalopathy/Perinatal asphyxia
- 5.2 Cranial haemorrhage
- 5.21 Intraventricular Haemorrhage
- 5.22 Subgaleal Haemorrhage
- 5.23 Subarachnoid Haemorrhage
- 5.24 Subdural Haemorrhage
- 5.28 Other intracranial haemorrhage
- 5.3 Post haemorrhagic hydrocephalus
- 5.4 Periventricular leukomalacia
- 5.8 Other

6 Gastrointestinal

- 6.1 Necrotising enterocolitis (NEC)
- 6.2 Short gut syndrome
- 6.3 Gastric or intestinal perforation (excluding NEC)
- 6.4 Gastrointestinal haemorrhage
- 6.8 Other

7 Other

- 7.1 Sudden unexpected death in infancy (SUDI)
- 7.11 Sudden Infant Death Syndrome (SIDS)
- 7.112 SIDS Category IA: Classic features of SIDS present and completely documented.
- 7.113 SIDS Category IB: Classic features of SIDS present but incompletely documented.
- 7.114 SIDS Category II: Infant deaths that meet category I except for one or more features.
- 7.12 Unclassified Sudden Infant Death in the neonatal period
- 7.121 Bed sharing
- 7.122 Not bed sharing
- 7.19 Unknown/Undetermined
- 7.2 Multisystem failure
- 7.21 Secondary to intrauterine growth restriction
- 7.28 Other specified
- 7.29 Unspecified/undetermined primary cause or trigger event
- 7.3 Trauma
- 7.31 Accidental
- 7.32 Non accidental
- 7.39 Unspecified
- 7.4 Treatment complications
- 7.41 Surgical
- 7.42 Medical
- 7.5 Unsuccessful resuscitation in infants of 28 weeks gestation or more without an obvious sentinel event
- 7.8 Other specified

PSANZ ASSOCIATED CONDITIONS

Associated conditions for both stillbirths and neonatal deaths

Categories 1 -11 PSANZ PDC

13 Genetic testing results not diagnostic

- 13.1 Copy number variant of unknown or uncertain significance
- 13.2 No mutation identified matching phenotype
- 13.3 Tested for genetic mutations but failed
- 13.4 Not tested or not known if tested for genetic mutations

14 Associated placental pathology

- 14.1 Delayed villous maturation
- 14.2 Large chorioangioma
- 14.3 Early bleeding often leading to preterm prelabour ROM
- 14.8 Other associated placental pathology

15 Associated cord pathology

- 15.1 True knot (excluding histological evidence of causation)

- 15.2 Hypercoiled cord
- 15.3 Tethered cord
- 15.4 Velamentous insertion
- 15.8 Other cord associated cord pathology

16 Fetal Growth Restriction

- 16.1 Autopsy evidence (brain:liver ratio equal to or greater than 4:1)
- 16.2 Antenatal ultrasound evidence of FGR
- 16.3 Clinical examination of the baby (by paediatrician, pathologist)
- 16.4 Birthweight (less than 10th centile for gestational age)
- 16.41 Customised centiles
- 16.42 Population centiles

17 Maternal risk factors (optional category)

- 17.1 Smoking
- 17.2 Substance use
- 17.3 High BMI
- 17.4 Maternal mental health disorder
- 17.5 Socioeconomic deprivation
- 17.6 Refugee or asylum seeker

Associated conditions for neonatal deaths only

NDC Categories 1- 6

In addition to the above for associated maternal/fetal conditions the NDC Categories 1- 6 can be used to assign associated neonatal conditions