

APPENDIX J - PERINATAL MORTALITY CLASSIFICATIONS – QUICK REFERENCE SHEET

PSANZ-PDC		
<p>1 Congenital Anomaly</p> <p>1.1 Structural anomaly</p> <p>1.11 Nervous system</p> <p>1.12 Cardiovascular system</p> <p>1.13 Genitourinary system</p> <p>1.14 Gastrointestinal system</p> <p>1.15 Musculoskeletal</p> <p>1.151 Congenital diaphragmatic hernia</p> <p>1.152 Gastroschisis/omphalocele</p> <p>1.16 Respiratory system (include congenital pulmonary airway malformation (CPAM))</p> <p>1.17 Haematological</p> <p>1.18 Multiple Congenital anomaly (no chromosomal/genetic cause or not tested)</p> <p>1.19 Other congenital abnormality</p> <p>1.192 Idiopathic hydrops fetalis</p> <p>1.193 Fetal tumour (include sacro-coccygeal teratoma)</p> <p>1.198 Other specified</p> <p>1.199 Congenital anomaly, unspecified</p> <p>1.2 Chromosomal anomaly</p> <p>1.21 Down syndrome (trisomy 21)</p> <p>1.22 Edward syndrome and Patau syndrome (trisomy 18, trisomy 13)</p> <p>1.23 Other trisomies and partial trisomies of the autosomes, not elsewhere classified (includes pathogenic duplications, unbalanced translocations and insertions)</p> <p>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)</p> <p>1.25 Turner syndrome (monosomy X)</p> <p>1.26 Other sex chromosome abnormalities (e.g. Klinefelter syndrome)</p> <p>1.28 Other chromosomal abnormalities, not elsewhere specified (includes Fragile X syndrome, imprinting syndromes, triploidy)</p> <p>1.29 Unspecified</p> <p>1.3 Genetic anomaly</p> <p>1.31 Genetic condition, specified (e.g. Tay-Sachs disease; includes inborn errors of metabolism)</p> <p>1.32 Syndrome/association with demonstrated chromosomal/gene anomaly.</p> <p>1.39 Genetic condition, unspecified</p> <p>2 Perinatal Infection</p> <p>2.1 Bacterial</p> <p>2.11 Group B Streptococcus</p> <p>2.12 E coli</p> <p>2.13 Listeria monocytogenes</p> <p>2.14 Spirochaetal e.g. Syphilis</p> <p>2.18 Other bacterial</p> <p>2.19 Unspecified bacterial</p> <p>2.2 Viral</p> <p>2.21 Cytomegalovirus</p> <p>2.22 Parvovirus</p> <p>2.23 Herpes simplex virus</p> <p>2.24 Rubella virus</p> <p>2.25 Zika virus</p> <p>2.28 Other viral</p> <p>2.29 Unspecified viral</p> <p>2.3 Protozoal e.g. Toxoplasma</p> <p>2.5 Fungal</p> <p>2.8 Other specified organism</p> <p>2.9 Other unspecified organism</p> <p>3 Hypertension</p> <p>3.1 Chronic hypertension: essential</p>	<p>3.2 Chronic hypertension: secondary, e.g. renal disease</p> <p>3.3 Chronic hypertension: unspecified</p> <p>3.4 Gestational hypertension</p> <p>3.5 Pre-eclampsia</p> <p>3.6 Pre-eclampsia superimposed on chronic hypertension</p> <p>3.9 Unspecified hypertension</p> <p>4 Antepartum Haemorrhage (APH)</p> <p>4.1 Placental abruption</p> <p>4.2 Placenta praevia</p> <p>4.3 Vasa praevia</p> <p>4.9 APH of undetermined origin</p> <p>5 Maternal Conditions</p> <p>5.1 Termination of pregnancy for maternal psychosocial indications</p> <p>5.2 Diabetes</p> <p>5.21 Gestational diabetes</p> <p>5.22 Pre-existing diabetes</p> <p>5.3 Maternal injury</p> <p>5.31 Accidental</p> <p>5.32 Non-accidental</p> <p>5.4 Maternal sepsis</p> <p>5.5 Antiphospholipid syndrome</p> <p>5.6 Obstetric cholestasis</p> <p>5.8 Other specified maternal conditions</p> <p>5.81 Maternal suicide</p> <p>5.82 Other specified maternal medical or surgical conditions</p> <p>6 Complications of multiple pregnancy</p> <p>6.1 Monochorionic twins</p> <p>6.11 Twin to twin transfusion syndrome (TTTS)</p> <p>6.12 Selective fetal growth restriction (FGR) (i.e. affecting only one twin)</p> <p>6.13 Monoamniotic twins (including cord entanglement)</p> <p>6.18 Other</p> <p>6.19 Unknown or unspecified</p> <p>6.2 Dichorionic twins</p> <p>6.21 Early fetal death in a multiple pregnancy (<20 weeks gestation)</p> <p>6.22 Selective fetal growth restriction (FGR)</p> <p>6.28 Other</p> <p>6.29 Unknown or unspecified</p> <p>6.3 Complications of higher order multiples (3 or more fetuses)</p> <p>6.31 Twin to twin transfusion syndrome (TTTS)</p> <p>6.32 Selective fetal growth restriction (FGR)</p> <p>6.33 Monoamniotic multiples (including cord entanglement)</p> <p>6.34 Early fetal death in a multiple pregnancy (<20 weeks gestation)</p> <p>6.38 Other</p> <p>6.39 Unknown or unspecified</p> <p>6.4 Complications where chorionicity is unknown</p> <p>6.8 Other</p> <p>6.9 Unspecified</p> <p>7 Specific perinatal conditions</p> <p>7.1 Fetomaternal haemorrhage</p> <p>7.2 Antepartum cord or fetal vessel complications (excludes monochorionic twins or higher order multiples)</p> <p>7.21 Cord vessel haemorrhage</p> <p>7.22 Cord occlusion (True knot with evidence of occlusion or other)</p> <p>7.28 Other cord complications</p> <p>7.29 Unspecified cord complications</p> <p>7.3 Uterine abnormalities</p> <p>7.31 Developmental anatomical abnormalities (e.g. bicornuate uterus)</p> <p>7.38 Other</p> <p>7.39 Unspecified</p> <p>7.4 Alloimmune disease</p> <p>7.41 Rhesus isoimmunisation</p> <p>7.42 Other red cell antibody</p>	<p>7.43 Alloimmune thrombocytopenia</p> <p>7.48 Other</p> <p>7.49 Unspecified</p> <p>7.5 Fetal antenatal intracranial injury</p> <p>7.51 Subdural haematoma</p> <p>7.52 Fetal antenatal ischaemic brain injury</p> <p>7.53 Fetal antenatal haemorrhagic brain injury</p> <p>7.6 Other specific perinatal conditions</p> <p>7.61 Complications of antenatal, diagnostic or therapeutic procedures:</p> <p>7.611 Complications of prenatal diagnostic procedures (e.g. amniocentesis, chorionic villus sampling,) (e.g. rupture of membranes after amniocentesis)</p> <p>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)</p> <p>7.613 Complications of fetal shunt interventions (e.g. pleuroamniotic shunt, vesicoamniotic shunt)</p> <p>7.614 Complications of minimally invasive fetoscopic interventions (e.g. fetoscopic laser surgery for TTTS, FETO for CDH, laser ablation of posterior urethral valves)</p> <p>7.615 Complications of open maternal fetal surgery (e.g. open maternal fetal surgery for spina bifida)</p> <p>7.618 Other</p> <p>7.62 Termination of pregnancy for suspected but unconfirmed congenital anomaly.</p> <p>7.63 Amniotic band</p> <p>7.68 Other</p> <p>7.9 Unspecified</p> <p>8 Hypoxic peripartum death</p> <p>8.1 With intrapartum complications (sentinel events)</p> <p>8.11 Uterine rupture</p> <p>8.12 Cord prolapse</p> <p>8.13 Shoulder dystocia</p> <p>8.14 Complications of breech presentation</p> <p>8.15 Birth trauma</p> <p>8.16 Intrapartum haemorrhage</p> <p>8.18 Other</p> <p>8.2 Evidence of significant fetal compromise (excluding other complications)</p> <p>8.3 No intrapartum complications recognised and no evidence of significant fetal compromise identified</p> <p>8.9 Unspecified hypoxic peripartum death</p> <p>9 Placental dysfunction or causative placental pathology</p> <p>9.1 Maternal vascular malperfusion</p> <p>9.2 Fetal vascular malperfusion</p> <p>9.3 High grade villitis of unknown etiology (VUE)</p> <p>9.4 Massive perivillous fibrin deposition/maternal floor infarction</p> <p>9.5 Severe chronic intervillitis (Histiocytic intervillitis)</p> <p>9.6 Placental hypoplasia</p> <p>9.7 No causal placental pathology demonstrated, with antenatal evidence of poor placental function identified (such as abnormal fetal umbilical artery Doppler)</p> <p>9.8 Placental pathological examination was not performed, with antenatal evidence of poor placental function identified (such as abnormal fetal umbilical artery Doppler)</p> <p>9.9 Other placental pathology (e.g. multiple pathologies with evidence of loss of placental function leading to death)</p> <p>10 Spontaneous preterm labour or rupture of membranes (<37 weeks gestation)</p> <p>10.1 Spontaneous preterm</p> <p>10.11 With histological chorioamnionitis</p> <p>10.12 Without histological chorioamnionitis</p> <p>10.13 With clinical evidence of chorioamnionitis, no examination of placenta</p> <p>10.17 No clinical signs of chorioamnionitis, no examination of placenta</p> <p>10.19 Unspecified or not known whether placenta examined</p>

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<p>10.2 Spontaneous preterm preceded by premature cervical shortening</p> <p>11 Unexplained antepartum fetal death</p> <p>11.1 Unexplained antepartum fetal death despite full investigation</p> <p>11.2 Unclassifiable antepartum fetal death with incomplete investigation</p> <p>11.3 Unclassifiable antepartum fetal death due to unknown level of investigation</p> <p>12 Neonatal death without obstetric antecedent</p> <p>12.1 Neonatal death with no obstetric antecedent factors despite full investigation</p> <p>12.2 Neonatal death unclassifiable as to obstetric antecedent with incomplete investigation</p> <p>12.3 Neonatal death unclassifiable as to obstetric antecedent due to unknown level of investigation</p> <p style="text-align: center;">PSANZ-NDC</p> <p>1 Congenital Anomaly (Please refer to PSANZ PDC)</p> <p>2 Periviable infants (typically <24 weeks)</p> <p>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)</p> <p>2.2 Unsuccessful resuscitation</p> <p>2.9 Unspecified or not known whether resuscitation attempted</p> <p>3 Cardio-respiratory disorders</p> <p>3.1 Hyaline membrane disease / Respiratory distress syndrome (RDS)</p> <p>3.2 Meconium aspiration syndrome</p> <p>3.3 Primary persistent pulmonary hypertension</p> <p>3.4 Pulmonary hypoplasia</p> <p>3.5 Pulmonary haemorrhage</p> <p>3.6 Air leak syndromes</p> <p>3.61 Pneumothorax</p> <p>3.62 Pulmonary interstitial emphysema</p> <p>3.68 Other</p> <p>3.7 Patent ductus arteriosus</p> <p>3.8 Chronic neonatal lung disease (typically, bronchopulmonary dysplasia)</p> <p>3.9 Other</p> <p>3.91 Neonatal anaemia/hypovolaemia</p> <p>4 Neonatal infection</p> <p>4.1 Congenital/Perinatal bacterial infection (early onset<48 hrs)</p> <p>4.11 Blood stream infection/septicaemia</p> <p>4.111 Positive culture of a pathogen</p> <p>4.112 Clinical signs of sepsis + ancillary evidence but culture negative</p> <p>4.12 Bacterial meningitis</p> <p>4.13 Bacterial pneumonia</p> <p>4.15 Multiple site bacterial infection</p> <p>4.18 Other congenital bacterial infection e.g. gastroenteritis, osteomyelitis, cerebral abscess</p> <p>4.19 Unspecified congenital infection</p> <p>4.2 Congenital/Perinatal viral infection</p> <p>4.3 Congenital fungal, protozoan, parasitic infection</p> <p>4.4 Acquired bacterial infection (late onset>48hrs).</p> <p>4.41 Blood stream infection/septicaemia</p> <p>4.411 Positive culture of a pathogen</p> <p>4.412 Clinical signs of sepsis + ancillary evidence but culture negative</p> <p>4.42 Bacterial meningitis</p> <p>4.43 Bacterial pneumonia</p> <p>4.48 Other acquired bacterial infection e.g. gastroenteritis, osteomyelitis</p> <p>4.49 Unspecified acquired infection</p> <p>4.5 Acquired viral infection</p> <p>4.6 Acquired fungal, protozoan, parasitic infection</p>	<p>5 Neurological</p> <p>5.1 Hypoxic ischaemic encephalopathy/Perinatal asphyxia</p> <p>5.2 Cranial haemorrhage</p> <p>5.21 Intraventricular Haemorrhage</p> <p>5.22 Subgaleal Haemorrhage</p> <p>5.23 Subarachnoid Haemorrhage</p> <p>5.24 Subdural Haemorrhage</p> <p>5.28 Other intracranial haemorrhage</p> <p>5.3 Post haemorrhagic hydrocephalus</p> <p>5.4 Periventricular leukomalacia</p> <p>5.8 Other</p> <p>6 Gastrointestinal</p> <p>6.1 Necrotising enterocolitis (NEC)</p> <p>6.2 Short gut syndrome</p> <p>6.3 Gastric or intestinal perforation (excluding NEC)</p> <p>6.4 Gastrointestinal haemorrhage</p> <p>6.8 Other</p> <p>7 Other</p> <p>7.1 Sudden unexpected death in infancy (SUDI)</p> <p>7.11 Sudden Infant Death Syndrome (SIDS)</p> <p>7.112 SIDS Category IA: Classic features of SIDS present and completely documented.</p> <p>7.113 SIDS Category IB: Classic features of SIDS present but incompletely documented.</p> <p>7.114 SIDS Category II: Infant deaths that meet category I except for one or more features.</p> <p>7.12 Unclassified Sudden Infant Death in the neonatal period</p> <p>7.121 Bed sharing</p> <p>7.122 Not bed sharing</p> <p>7.19 Unknown/Undetermined</p> <p>7.2 Multisystem failure</p> <p>7.21 Secondary to intrauterine growth restriction</p> <p>7.28 Other specified</p> <p>7.29 Unspecified/undetermined primary cause or trigger event</p> <p>7.3 Trauma</p> <p>7.31 Accidental</p> <p>7.32 Non accidental</p> <p>7.39 Unspecified</p> <p>7.4 Treatment complications</p> <p>7.41 Surgical</p> <p>7.42 Medical</p> <p>7.5 Unsuccessful resuscitation in infants of 28 weeks gestation or more without an obvious sentinel event</p> <p>7.8 Other specified</p> <p style="text-align: center;">PSANZ ASSOCIATED CONDITIONS Associated conditions for both stillbirths and neonatal deaths</p> <p>Categories 1 -11 PSANZ PDC</p> <p>13 Genetic testing results not diagnostic</p> <p>13.1 Copy number variant of unknown or uncertain significance</p> <p>13.2 No mutation identified matching phenotype</p> <p>13.3 Tested for genetic mutations but failed</p> <p>13.4 Not tested or not known if tested for genetic mutations</p> <p>14 Associated placental pathology</p> <p>14.1 Delayed villous maturation</p> <p>14.2 Large chorioangioma</p> <p>14.3 Early bleeding often leading to preterm prelabour ROM</p> <p>14.8 Other associated placental pathology</p> <p>15 Associated cord pathology</p> <p>15.1 True knot (excluding histological evidence of causation)</p>	<p>15.2 Hypercoiled cord</p> <p>15.3 Tethered cord</p> <p>15.4 Velamentous insertion</p> <p>15.8 Other cord associated cord pathology</p> <p>16 Fetal Growth Restriction</p> <p>16.1 Autopsy evidence (brain:liver ratio equal to or greater than 4:1)</p> <p>16.2 Antenatal ultrasound evidence of FGR</p> <p>16.3 Clinical examination of the baby (by paediatrician, pathologist)</p> <p>16.4 Birthweight (less than 10th centile for gestational age)</p> <p>16.41 Customised centiles</p> <p>16.42 Population centiles</p> <p>17 Maternal risk factors (optional category)</p> <p>17.1 Smoking</p> <p>17.2 Substance use</p> <p>17.3 High BMI</p> <p>17.4 Maternal mental health disorder</p> <p>17.5 Socioeconomic deprivation</p> <p>17.6 Refugee or asylum seeker</p> <p style="text-align: center;">Associated conditions for neonatal deaths only</p> <p>NDC Categories 1- 7 In addition to the above for associated maternal/fetal conditions the NDC Categories 1- 7 can be used to assign associated neonatal conditions</p>
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