Supplementary file 1

Diagnostic codes† extracted from the National Neonatal Research Database (NNRD):

Respiratory distress syndrome if any of the following:

'15574'- signs of respiratory distress of newborn
'15572'- Respiratory distress syndrome
'11010179'- respiratory distress-signs of
'15571' Respiratory Distress (ARDS)

Pulmonary hypoplasia if any of the following:

'16143'- Hypoplastic lungs
'16154'- Hypoplasia and dysplasia of lung
'10892'- Pulmonary hypoplasia
'16151'- Agenesis of lung

Persistent pulmonary hypertension of the newborn if any of the following:

'15241'- Primary pulmonary hypertension (not PPHN)
'15242'- Secondary pulmonary hypertension (not PPHN)
'10010891'- Pulmonary hypertension (secondary)
'10891'-Pulmonary hypertension (secondary)
'10890'- Pulmonary hypertension (primary)
'10010890'- Pulmonary hypertension (primary)
'15621'- Pulmonary hypertension (PPHN)
'10829'- Persistent Pulmonary Hypertension of the Newborn (PPHN)
'15630'- Persistent Pulmonary Hypertension (PPHN secondary to other condition)
'15629'- Persistent Pulmonary Hypertension (PPHN: idiopathic)

Meconium Aspiration Syndrome:

'15588'- Meconium aspiration syndrome

Congenital pneumonia if any of the following:

'15577'- Congenital pneumonia due to viral agent
'15581'- Congenital pneumonia due to Streptococcus, group B
'15580'- Congenital pneumonia due to Staphylococcus
'15583'- Congenital pneumonia due to Pseudomonas
'15585'- Congenital pneumonia due to other organisms
'15584'- Congenital pneumonia due to other bacterial agents
'15582'- Congenital pneumonia due to Escherichia coli
'15578'- Congenital pneumonia due to Chlamydia
'15586'- Congenital pneumonia (unknown or unspecified cause)
'15587'- Congenital pneumonia

Congenital diaphragmatic hernia if any of the following:

'16495'- Congenital diaphragic hernia
'16497'- Eventration of diaphragic hernia
'1001925'- Unspecified repair of diaphragmatic hernia
'1006671'- Repair of congenital diaphragmatic hernia
'10905'- Recurrent congenital diaphragmatic hernia
'11660'- Prosthetic repair of congenital diaphragmatic hernia (specify)
'11657'- Primary repair of congenital diaphragmatic hernia
'1001924'- Other specified repair of diaphragmatic hernia
'11597'- Other repair of diaphragmatic hernia (specify)
'10694'- Morgagni diaphragmatic hernia
'1015977'- Diaphragmatic hernia - right
'1015978'- Diaphragmatic hernia - left
'1010217'- Diaphragmatic hernia - left
'10010246'- Diaphragmatic hernia - congenital

Prolonged rupture of membranes >24 hr if any of the following:

'15406'- Prolonged preterm rupture membranes >24hr
'15459'- Prolonged rupture membranes (PROM: Term)
'15407'- Prolonged rupture membranes >24hr
'15462'- Preterm pre-labour rupture of membranes (PROM >24hrs)

† These diagnostic codes are specific to the Badger Net EPR system developed by Clevermed Ltd and from which the NNRD pulls neonatal data.

Supplemental material

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Supplementary file 2

Congenital heart disease diagnoses in order of frequency

Diagnoses	Gestation (Weeks)			
	<29	29 to 33	≥34	N (column percentage)
Ventricular Septal Defect (VSD)	79	85	160	324 (27.9%)
Atrial Septal Defect (ASD)	111	52	96	259 (22.2%)
Pulmonary stenosis	31	23	15	69 (5.9%)
Transposition of the great arteries	4	11	52	67 (5.8%)
Ventricular hypertrophy	11	13	26	50 (4.3%)
Atrioventricular Septal Defect (AVSD)	1	8	25	34 (2.9%)
Coarctation of aorta	4	7	19	30 (2.6%)
Congenital malformations of cardiac chambers and connections	2	4	23	29 (2.5%)
Tetralogy of Fallot	5	6	14	25 (2.2%)
Other congenital heart diagnoses	34	55	186	275 (23.7%)
Total	**282**	**264**	**616**	**1162**