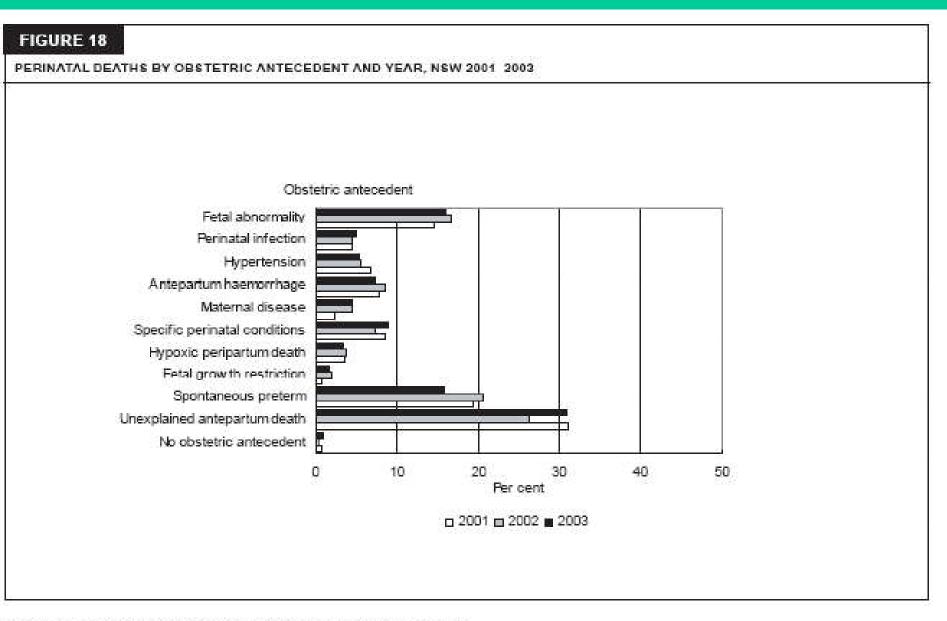
### **Perinatal Mortality**

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#### Perinatal Deaths NSW 2001-03



Source: NSW Maternal and Perinatal Committee, NSW Department of Health.

# Congenital Malformations that Cause Perinatal Death

Obstetric antecedent	Stil	lbirth:		al outcome stal death	TO	TAL	
	No.	%	No.	%	No.	%	
1. Fetal abnormality							
Central nervous system	13	3.2	9	4.7	22	3.7	
Cardiovascular system	4	1.0	11	5.7	15	2.5	
Unnary tract	1	0.2	2	1.0	3	0,5	
Gastrointestinal system	0	0.0	3	1.6	3	0.5	
Chromosomal	20	5.0	7	3.6	27	4.5	
Metabolic	0	0.0	1	0.5	1	0.2	
Multiple	9	2.2	7	3.6	16	2.7	
Other	3	0.7	5	2.6	8	1.3	
Total	50	12.4	45	23.4	95	16.0	

# Prematurity as a Cause of Perinatal Death

Obstetric antecedent	e	birth		al outcome atal death	TO	TAL	
	No.	%	No.	% %	No.	%	
9. Spontaneous preterm							
Intact membranes or membrane rupture							
less than 24 hours:							
with chorioamnionitis	11	2.7	25	13.0	36	6.1	
without chorioamnionitis	4	1.0	12	6.3	18	2.7	
no placental examination	0	0.0	12 2	1.0	2	0.3	
Membrane rupture 24 hours or more:		563		553		983	
with chorioamnionitis	9	2.2	17	8.9	26	4.4	
without chorioamnionitis	1	0.2	1	0.5	2	0.3	
no placental examination	3	0.7	4	2.1	7	1.2	
Membrane rupture unknown duration:		1000		4414			
with chorioamnionitis	1	0.2	- 1	0.5	2 2	0.3	
without chorioamnionitis	1	0.2	1	0.5	2	0.3	
unspecified placental examination	0	0.0	1	0.5	.1	0.2	
Total	30	7.4	64	33.3	94	15.8	

# Infections that Cause Perinatal Death

No.	%	No.	%	No.	TAL %	
4	1,0	4	2.1	8	13	
0	0.0	3	1.6	3	0.5	
0	0.0	2	1.0	2	0.3	
3	0.7	2	1.0	5	0.8	
0	0.0	f	0.5	1	0.2	
2	0.5	0	0.0	2	0.3	
7	1.7	2	1.0	9	1.5	
16	4.0	14	7.3	30	5.0	
	4 0 0 3 0 2 7	0 0.0 0 0.0 3 0.7 0 0.0 2 0.5 7 1.7	0 0.0 3 0 0.0 2 3 0.7 2 0 0.0 1 2 0.5 0 7 1.7 2	0     0.0     3     1.6       0     0.0     2     1.0       3     0.7     2     1.0       0     0.0     1     0.5       2     0.5     0     0.0       7     1.7     2     1.0	0     0.0     3     1.6     3       0     0.0     2     1.0     2       3     0.7     2     1.0     5       0     0.0     1     0.5     1       2     0.5     0     0.0     2       7     1.7     2     1.0     9       16     4.0     14     7.3     30	0     0.0     3     1.6     3     0.5       0     0.0     2     1.0     2     0.3       3     0.7     2     1.0     5     0.8       0     0.0     1     0.5     1     0.2       2     0.5     0     0.0     2     0.3       7     1.7     2     1.0     9     1.5       16     4.0     14     7.3     30     5.0

## Hypertensive Causes of Perinatal Death

3	Obstetric antecedent	Still	lbirth		l outcome tal death	TO	ral .	
_		No.	%	No.	%	No.	%	
3.	Hypertension							
9300	Chronic: Essential	3	0.7	1	0.5	4	0.7	
	Chronic: Secondary eg renal	Ĭ	0.2	0	0.0	1	0.2	
	Chronic: Unspecified	1	0.2	0	0.0	İ	0.2	
	Gestational	6	1.5	0	0.0	8	1.0	
	Pre-eclampsia	9	2.2	8	4.2	17	2.9	
	Pre-eclampsia superimposed on pre-existing	2	0.5	0	0.0	2	0.3	
	Unspecified	1	0.2	.0	0.0	1	0.2	
	Total	23	5.7	9	4.7	32	5.4	

## Obstetric Haemorrhage that Causes Perinatal Death

Obstetric antecedent	Still	birth or		l outcome tal death	то	TAL	
	No.	%	No.	%	No.	IAL %	
4. Antepartum haemorrhage							
Placental abruption	23	5.7	5	28	28	4.7	
Placenta praevia	2	0.5	2	10	4	0.7	
Vasa praevia	2	0.5	Ť	0.5	3	0.5	
Undetermined origin	4	1.0	5	2.6	9	1,5	
Total	31	7.7	13	6.8	44	7,4	

## Maternal Diseases that Cause Perinatal Death

Obstetric antecedent	Still	birth		l outcome tal death	TO:	TAL	
	No.	%	No.	%	No.	%	
5. Maternal disease							
Termination of pregnancy							
other than for fetal abnormality	4	1.0	1	0.5	5	0.8	
Diabetes/gestational diabetes	9	2.2	1	0.5	10	1.7	
Maternal injury: Accidental	5	1.2	1	0.5	в	1.0	
Other	2	0.5	5	2.6	- 7	1.2	
Total	20	5.0	8	4.2	28	4.7	

## Hypoxic Causes of Perinatal Death

Obstetric antecedent	Still	birth		al outcome Ital death	то	TAL	
	No.	%	No.	%	No.	%	
7. Hypoxic peripartum death							
Uterine rupture	2	0.5	0	0.0	2	0.3	
Cord prolapse	3	0.7	1	0.5	4	0.7	
Shoulder dystocia	1	0.2	0	0.0	1	0.2	
Other intrapartum complication	2	0.5	4	2.1	в	1.0	
No intrapartum complication	3	0.7	3	1.6	6	1.0	
Unspecified	. 1	0,2	1	0.5	2	0.3	
Total	12	3.0	9	4.7	6 6 2 21	3,5	
8. Fetal growth restriction							
With evidence of uteroplacental insufficiency	4	1.0	2	1.0	6	1.0	
With chronic villitis	1	0.2	0	0.0	1	0.2	
Without the above placental pathology	1	0.2	3	0.5	2	0.3	
No placental examination	1.	0.2	Ð	0.0	1	0.2	
Total	7	1.7	3	1.6	10	1.7	

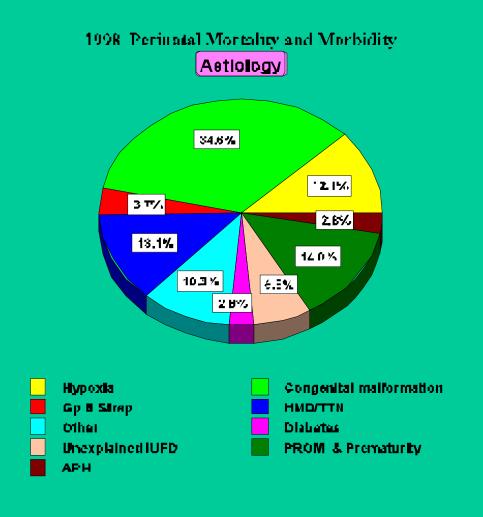
#### **Other Causes of Perinatal Death**

Obstetric antecedent	Stil	lbirth		al outcome atal death	то	TAL	
	No.	%	No.	%	No.	%	
6. Specific perinatal conditions							
Twin-to-twin transfusion	16	4.0	11	5,7	27	4.5	
Fetomaternal haemorrhage	2	0.5	0	0.0	2	0.3	
Antepartum cord complications	ß	1.5	Ŧ	0.5	7	1.2	
Uterine abnormality	2	0.5	4	2.1	6	1.0	
Birth trauma	0	0.0	1	0.5	1	0.2	
Haemolytic disease	1	0.2	0	0,0	1	0.2	
ldiopathic hydrops	1	0.2	1	0.5	2	0.3	
Other	2	0.5	3	1.6	5	0.8	
Total	30	7.4	21	10.9	51	8,6	

#### **Causes of Neonatal Death**

Ne	onatal cause		2001		ear 002	· ·	003	
		No.	2001	No.	,002 %	No.	96 96	
1	Congenital abnormality							
*	Central nervous system	6	3.2	6	3.0	9	4.7	
	Cardiovascular system	8	4.2	2	1.0	11	5.7	
	Urinary tract	5	2.6	2	1.0	3	1.6	
	Gastrointestinal tract	2	1.1	2	1.0	2	1.0	
	Chromosomal	3	1.6	8	4.0	3	1.6	
	Metabolic	ő	0.0	1	0.5	š	0.0	
	Multiple	5	2.6	5	2.5	2	1.0	
	Unspecified	0	0.0	1	0.5	ā	0.0	
	Other	14	7.4	12	5.9	. 7	3.6	
	Total	43	22.8	39	19.3	37	19.3	
	lotal	40	22.0	- 28	18.5		18.0	
1	Extreme prematurity							
	Notresuspitated	34	18.0	39	19.3	45	23.4	
	Unsuccessful resuscitation	34	18.0	31	15.3	22	11.5	
	Resuscitation unspecified or unknown	16	8.5	10	5.0	19	9.9	
	Total	84	44.4	03	39.6	88	44.8	
1.	Cardio-respiratory disorders							
	Hyaline membrane disease /							
	Respiratory distress syndrome	8	4.2	5	2.5	3	3.1	
	Meconium aspiration syndrome	1	0.5	i	0.5	í	0.5	
	Primary persistent pulmonary hypertension	2	1.1	2	1.0	1	0.5	
	Pulmonary hypoplasia	8	3.2	8	4.0	5	2.6	
	Chronic neonatal lung disease	Ö	0.0	Ö	0.0	2	1.0	
	Other	6	3.2	8	4.0	á	3.1	
	Total	23	12.2	24	11.9	21	10.9	
	Infection							
4.	Congenital bacterial	2	1.1	7	3.5	3	1.6	
	Accuired bacterial	4	2.1	8	3.5 4.0	3	3.1	
		0	0.0	1	4.0 0.5	1	0.5	
	Fungal			0				
	Unspecified organism	2	1.1	2.77	0.0	3	0.0	
	Other	0	0.0	1	0.5	.1	0.5	
	Total	8	4.2	17	8.4	11.	5.7	
i.	Neurological							
	Hypoxic ischaemic encephalopathy /							
	perinatal asphyxia	8	4.2	16	7.9	13	6.8	
	Intracranial haemorrhage	10	5.3	11	5,4	10	5.2	
	Other	0	0.0	0	0.0	1	0.5	
	Total	18	9.5	27	13.4	24	12.5	
	Gastrointestinal							
u.		2	1.1	5	2.5	5	2.6	
	Necrotsing enterocolitis Other	1	0.5	1	0.5	1	0.6	
	Total	3	1.6	6	3.0	3	3.1	
-	Other SIDS	0	0.0	0	0.0	1	0.5	
	Trauma	0	0.0	1	0.5	0	0.0	
	Other	7	3.7	3	1.5	5	2.6	
	Undetermined / not stated	3	1.6	5	2.5	1	0.5	
			5.3	9		7		
	Total	10	5.3	9	4.5	1.	3.6	
	TAL	189	100.0	202	100.0	192	100.0	

# Perinatal Mortality & Morbidity at John Hunter Hospital



### John Hunter Hospital Audit

