Volume 14 , Number S-3 December, 2003

NSW Public NSW Health Bulletin Supplement

ISSN 1034 7674 te Health Publication PH 030277

New South Wales Mothers and Babies 2002

NSW DEPARTMENT OF HEALTH

Copyright © NSW Department of Health, December 2003

This work is copyright. It may be reproduced in whole or in part, subject to the inclusion of an acknowledgment of the source and no commercial usage or sale.

State Health Publication No: PH030277 ISSN 1034 7674

suggested citation:

Centre for Epidemiology and Research, NSW Department of Health. New South Wales Mothers and Babies 2002. *N S W Public Health Bull* 2002; 14(S-3).

produced by:

Centre for Epidemiology and Research Population Health Division NSW Department of Health Locked Mail Bag 961 North Sydney NSW 2059 Australia

Tel: 61 2 9391 9223 Fax: 61 2 9391 9232

further copies of this publication can be obtained by contacting:

Centre for Epidemiology and Research Population Health Division NSW Department of Health Locked Mail Bag 961 North Sydney NSW 2059 Australia

Tel: 61 2 9391 9223 Fax: 61 2 9391 9232

or from the Population Health Division website at:

www.health.nsw.gov.au/public-health/phb/phb.html



CONTENTS

1. ACKNOWLEDGEMENTS		10	
2. EXEC	2. EXECUTIVE SUMMARY		11
3. METH	HODS		13
	Data sources	5	13
	Method for e	stimating level of reporting of maternal Aboriginality	14
	Definitions		15
	Explanatory	notes	16
	Map of NSW	health areas	17
4. TREI	NDS IN NEW S	SOUTH WALES	18
	Confinement	ts and births by plurality	18
	Table 1:	Births and confinements by plurality, NSW 1998–2002	18
	Health area	of residence	18
	Table 2:	Confinements by health area of residence, NSW 1998–2002	18
	Maternal age		19
	Figure 1:	Confinements among mothers aged less than 20 years and 35 years and over, NSW 1998–2002	19
	Table 3:	Confinements by maternal age, NSW 1998–2002	19
	Maternal cou	untry of birth	20
	Table 4:	Confinements by maternal country of birth, NSW, 1998–2002	20
	Maternal Abo	originality	21
	Table 5:	Confinements by maternal Aboriginality, NSW 1998–2002	21
	Number of p	revious pregnancies	21
	Table 6:	Confinements by number of previous pregnancies, NSW 1998–2002	21
	Duration of p	pregnancy at first antenatal visit	22
	Table 7:	Confinements by duration of pregnancy at first antenatal visit, NSW 1998–2002	22
	Smoking in p	pregnancy	22
	Table 8:	Mothers who smoked at all during pregnancy by number of cigarettes smoked in the second half of pregnancy, NSW 1998–2002	22
	Place of birtl	h	23
	Table 9:	Confinements by place of birth, NSW 1998–2002	23
	Hypertension	n and Diabetes	23
	Table 10:	Confinements by presence of hypertension or diabetes, NSW 1998–2002	23
	Labour and delivery		
	Confinements by onset and augmentation of labour, NSW 1998–2002	24	
		Confinements by type of delivery, NSW 1998–2002	24
	Table 13:	Confinements by health insurance status and type of delivery, NSW 1997–2001	25

	Pain relief		25
	Table 14:	Confinements by type of pain relief, NSW 1998–2002	25
	Baby Sex		26
	Gestational a	age	26
	Table 15:	Births by gestational age, NSW 1998–2002	26
	Birthweight		26
	Table 16:	Births by birthweight, NSW 1998–2002	26
	Apgar score		27
	Table 17:	Births by Apgar score at five minutes, NSW 1998–2002	27
	Special care	and neonatal intensive care	27
	Table 18:	Births by admission to special care or neonatal intensive care units,	
		NSW 1998–2002	27
	Perinatal out		27
		Births by perinatal outcome, NSW 1998–2002	27
	Maternal dea		28
		Maternal deaths by year, NSW 1990–2001	28
		Maternal deaths by cause, NSW 2000	28
5. ARE	A HEALTH SE		29
	Confinement	es es	29
	Maternal age		29
	Maternal cou	intry of birth	29
	Maternal Abo	originality	29
	Duration of p	pregnancy at first antenatal visit	29
	Smoking in p	pregnancy	29
	Place of birth	า	29
	Labour and o	delivery	29
	Table 22:	Confinements by maternal age and health area of residence, NSW 2002	30
	Table 23:	Confinements by maternal country of birth and health area of residence, NSW 2002	30
	Table 24:	Confinements by maternal Aboriginality and health area of residence, NSW 2002	31
	Table 25:	Confinements by duration of pregnancy at first antenatal check and health area of residence, NSW 2002	31
	Table 26:	Confinements by number of cigarettes smoked in the second half of pregnancy, NSW 2002	32
	Table 27:	Confinements by place of birth and health area of residence, NSW 2002	32
	Table 28:	Confinements by onset and augmentation of labour and health area of residence, NSW 2002	33
	Table 29:	Confinements by type of delivery and health area of residence, NSW 2002	33
	Birthweight		34
	Table 30:	Births by birthweight and health area of residence, NSW 2002	34

	Gestational a	age	34
	Table 31:	Births by gestational age and health area of residence, NSW 2002	34
	Perinatal out	comes	35
	Table 32:	Perinatal outcomes by health area of residence, NSW 2002	35
	Livebirths in	statistical local areas	36
	Table 33:	Livebirths by health area and statistical local area of residence, NSW 2002	36
6.	ABORIGINAL A	ND TORRES STRAIT ISLANDER MOTHERS AND BABIES	38
	Reporting of	Aboriginality	38
	Table 34:	Births to Aboriginal and Torres Strait Islander mothers by source of birth report, year of birth and urban–rural health area of hospital, NSW 1994–2001	38
	Figure 2:	Level of reporting of Aboriginality to the NSW Midwives Data Collection by year of birth and urban-rural health area of hospital, NSW 1994–2001	39
	Table 35:	Birth registrations by maternal and paternal indigenous status, NSW 2001	39
	Trends in bir	ths	40
	Table 36:	Aborginal and Torres Strait Islander mothers and babies by indigenous	
		status, NSW 1998-2002	40
	Plurality		
	Table 37:	Aboriginal and Torres Strait Islander mothers and babies by plurality, NSW 1998–2002	40
	Previous pre	egnancies	41
	Table 38:	Number of previous pregnancies among Aboriginal and Torres Strait Islander mothers, NSW 1998–2002	41
	Maternal age		41
	Table 39:	Age of Aboriginal and Torres Strait Islander mothers, NSW 1998–2002	41
	Health area	of residence	42
	Table 40:	Health area of residence of Aboriginal and Torres Strait Islander mothers, NSW 1998–2002	42
	Table 41:	Health area of residence of Aboriginal and Torres Strait Islander mothers by age, NSW 2002	42
	Booking stat	tus	43
	Duration of p	oregnancy at first antenatal visit	43
	Table 42:	Duration of pregnancy at first antenatal visit among Aboriginal and Torres Strait Islander mothers, NSW 1998-2002	43
	Table 43:	Duration of pregnancy at first antenatal visit among Aboriginal and Torres Strait Islander mothers by health area of residence, NSW 2002	43
	Smoking in	pregnancy	44
	Figure 3:	Smoking in the second half of pregnancy among Aboriginal and Torres Strait Islander mothers by amount smoked and health area of residence, NSW 2002	43
	Medical cond	ditions and obstetric complications	44
	Table 44:	Maternal medical conditions and obstetric complications by Aboriginality, NSW 2002	44

L	Labour and o	delivery	45
	Table 45:	Labour onset for Aboriginal and Torres Strait Islander mothers, NSW 1998–2002	45
	Table 46:	Type of delivery among Aboriginal and Torres Strait Islander mothers, NSW 1998–2002	45
E	Birthweight		46
	Table 47:	Weight of Aboriginal and Torres Strait Islander babies, NSW 1998–2002	46
	Table 48:	Weight of Aboriginal and Torres Strait Islander babies by health area of residence, NSW 2002	46
(Gestational a	age	47
	Table 49:	Gestational age of Aboriginal and Torres Strait Islander babies, NSW 1998–2002	47
	Table 50:	Gestational age of Aboriginal and Torres Strait Islander babies by health area of residence, NSW 2002	47
A	Apgar score		48
	Table 51:	Apgar score of Aboriginal and Torres Strait Islander babies, NSW 1998–2002	48
9	Special care	and neonatal intensive care	48
	Table 52:	Aboriginal and Torres Strait Islander babies admitted to special care and neonatal intensive care units, NSW 1998–2002	48
F	Perinatal mo	rtality	48
	Table 53:	Perinatal deaths among Aboriginal and Torres Strait Islander babies, NSW 1998–2002	48
7. MATE	ERNAL COUN	NTRY OF BIRTH	49
	ERNAL COUN		49 49
	Trends in co		
1	Trends in co	nfinements Confinements and births by country of birth group, NSW 1998–2002	49
1	Trends in co Table 54: Vlaternal age	nfinements Confinements and births by country of birth group, NSW 1998–2002	49
1	Trends in co Table 54: Maternal age Table 55:	nfinements Confinements and births by country of birth group, NSW 1998–2002	49 49 49
ר א	Trends in co Table 54: Maternal age Table 55:	Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002	49 49 49 50
ר א	Table 54: Maternal age Table 55: Figure 4: Health area of	Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002	49 49 49 50 50
T N	Table 54: Maternal age Table 55: Figure 4: Health area of	Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 of residence Health area of residence by maternal country of birth group, NSW 2002	49 49 49 50 50
1 N E	Table 54: Maternal age Table 55: Figure 4: Health area of Table 56: Booking stat	Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 of residence Health area of residence by maternal country of birth group, NSW 2002	49 49 49 50 50 51
1 N E	Trends in con Table 54: Maternal age Table 55: Figure 4: Health area of Table 56: Booking stat	Confinements Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 of residence Health area of residence by maternal country of birth group, NSW 2002	49 49 50 50 51 51
1 N E C	Trends in con Table 54: Maternal age Table 55: Figure 4: Health area of Table 56: Booking stat	Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 of residence Health area of residence by maternal country of birth group, NSW 2002 us pregnancy at first antenatal visit Confinements by country of birth and duration of pregnancy at first antenatal visit, NSW 2002	49 49 50 50 51 51 52
1 N E C	Trends in con Table 54: Maternal age Table 55: Figure 4: Health area of Table 56: Booking stat Duration of p Table 57:	Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 of residence Health area of residence by maternal country of birth group, NSW 2002 us pregnancy at first antenatal visit Confinements by country of birth and duration of pregnancy at first antenatal visit, NSW 2002	49 49 50 50 51 51 52 52
1 N E C	Trends in contable 54: Waternal age Table 55: Figure 4: Health area of Table 56: Booking state Duration of particular and the second state Table 57: Smoking in particular second	Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 of residence Health area of residence by maternal country of birth group, NSW 2002 us oregnancy at first antenatal visit Confinements by country of birth and duration of pregnancy at first antenatal visit, NSW 2002 oregnancy Confinements by country of birth group and smoking in pregnancy,	49 49 50 50 51 51 52 52 52
1 F E	Trends in contract Table 54: Maternal age Table 55: Figure 4: Health area of Table 56: Booking state Duration of particular table 57: Smoking in particular table 58: Table 59:	Confinements and births by country of birth group, NSW 1998–2002 Age of mother by country of birth group, NSW 2002 Age of mother by country of birth group, NSW 2002 Of residence Health area of residence by maternal country of birth group, NSW 2002 us Pregnancy at first antenatal visit Confinements by country of birth and duration of pregnancy at first antenatal visit, NSW 2002 Dregnancy Confinements by country of birth group and smoking in pregnancy, NSW 2002 Mothers who smoked at all during pregnancy by number of cigarettes smoked	49 49 50 50 51 51 52 52 52

	Labour and	delivery	54
	Table 61:	Labour onset by country of birth group, NSW 2002	54
	Table 62:	Type of delivery by country of birth group, NSW 2002	54
	Birthweight		55
	Table 63:	Birthweight by maternal country of birth group, NSW 2002	55
	Gestational a	age	55
	Table 64:	Gestational age by maternal country of birth group, NSW 2002	55
	Apgar score		56
	Table 65:	Births by country of birth group and Apgar score at five minutes, NSW 2002	56
	Perinatal out	comes	56
	Table 66:	Perinatal outcomes by country of birth group, NSW 2002	56
8.	NEONATAL INT	ENSIVE CARE	57
	Registration	rate	57
	Table 67:	NICUS registrations by health area of residence, NSW & ACT 2002	57
	Maternal cha	aracteristics	58
	Table 68:	Mothers of NICUS registrants by health area of residence and Aboriginality, NSW & ACT 2002	58
	Table 69:	Mothers of NICUS registrants by health area of residence and maternal age, NSW & ACT 2002	59
	Table 70:	Mothers of NICUS registrants by antenatal complications and gestational age, NSW & ACT 2002	59
	Figure 5:	Mothers of NICUS registrants by antenatal corticosteroid administration and gestational age, NSW & ACT 1998–2002	60
	Table 71:	Mothers of NICUS registrants by antenatal corticosteroid administration and gestational age, NSW & ACT 1998–2002	60
	Transfer stat	us, labour and delivery	61
	Table 72:	NICUS registrants by booking status, transfer status and gestational age, NSW & ACT 2002	61
	Figure 6:	NICUS registrants by tertiary hospital birth and gestational age, NSW & ACT 2002	62
	Table 73:	NICUS registrants by place of birth (level of obstetric hospital) and gestational age, NSW & ACT 2002	62
	Table 74:	NICUS registrants by booking status, transfer status and birthweight, NSW & ACT 2002	62
	Table 75:	NICUS registrants by place of birth (level of obstetric hospital) and birthweight, NSW & ACT 2002	63
	Table 76:	Mothers of NICUS registrants by onset of labour and gestational age, NSW & ACT 2002	63
	Table 77:	Mothers of NICUS registrants by onset of labour and birthweight, NSW & ACT 2002	63
	Table 78:	NICUS registrants by duration of rupture of membranes and gestational age, NSW & ACT 2002	63
	Table 79:	NICUS registrants by type of delivery and gestational age, NSW & ACT 2002	64
	Table 80:	NICUS registrants by type of delivery and birthweight, NSW & ACT 2002	64

Infant charac	teristics	64
Figure 7:	NICUS registrants by gestational age, NSW & ACT 2002	65
Table 81:	NICUS registrants by gestational age, NSW & ACT 1998–2002	65
Table 82:	Births by NICUS registration and gestational age, NSW & ACT 2002	66
Table 83:	NICUS registrants by birthweight, NSW & ACT 1998–2002	66
Table 84:	Births by NICUS registration and birthweight, NSW & ACT 2002	67
Table 85:	NICUS registrants by gender and gestational age, NSW & ACT 2002	67
Table 86:	NICUS registrants by congenital anomalies and gestational age, NSW & ACT 2002	67
Table 87:	NICUS registrants by plurality and gestational age, NSW & ACT 2002	68
Table 88:	NICUS registrants by Apgar score and gestational age, NSW & ACT 2002	69
Table 89:	NICUS registrants by Apgar score at one and five minutes, NSW & ACT 1998–2002	69
Table 90:	NICUS registrants by assisted ventilation by gestational age, NSW & ACT 1998–2002	69
Figure 8:	NICUS registrants by main indication for assisted ventilation, NSW & ACT 2002	70
Table 91:	NICUS registrants by main indication for assisted ventilation of babies and gestational age, NSW & ACT 2002	70
Table 92:	NICUS registrants by proven systemic infection and gestational age, NSW & ACT 2002	71
Table 93:	NICUS registrants by surfactant administration and gestational age, NSW & ACT 1998–2002	71
Table 94:	NICUS registrants by treated patent ductus arteriosus and gestational age, NSW & ACT 2002	71
Table 95:	NICUS registrants by necrotising enterocolitis and gestational age, NSW & ACT 2002	72
Table 96:	NICUS registrants by major surgery and gestational age, NSW & ACT 2002	72
Table 97:	NICUS registrants by intraventricular haemorrhage and gestational age, NSW & ACT 2002	73
Table 98:	NICUS registrants by retinopathy of prematurity and gestational age, NSW & ACT 2002	73
Service utilis	ation	74
Figure 9:	NICUS registrants by total number of days in hospital and gestational age, NSW & ACT 2002	74
Figure 10:	NICUS registrants by total number of days of assisted ventilation and gestational age, NSW & ACT 2002	75
Figure 11:	NICUS registrants by total number of days of oxygen therapy and gestational age, NSW & ACT 1998–2002	75
Table 99:	NICUS registrants by service utilisation indicators and gestational age, NSW & ACT 2002	76
Table 100:	NICUS registrants by home oxygen administration and gestational age, NSW & ACT 1998–2002	77
Survival		78
Figure 12:	NICUS registrants by 6-months survival and gestational age, NSW & ACT 1998–2002	78
Table 101:	NICUS registrants by duration of survival and gestational age,	70

	Table 102: NICUS registrants by duration of survival and birthweight, NSW & ACT 2002	79
	Table 103: NICUS registrants by duration of survival, place of birth and gestational age, NSW & ACT 2002	80
	Table 104: NICUS registrants by duration of survival, major congenital anomaly and gestational age, NSW & ACT 2002	80
	Figure 13: NICUS registrant deaths by post-mortem examination and gestational age, NSW & ACT 1998–2002	81
	Table 105: NICUS registrants by post-mortem examination and gestational age, NSW & ACT 2002	81
9.	BIRTH DEFECTS	82
	Birth defects among stillborn and liveborn infants	82
	Trends in reported birth defects	82
	Table 106: Birth defect cases, NSW 1996–2002	82
	Birth defects by diagnostic category	82
	Table 107: Birth defects among stillbirths and livebirths by diagnostic category, NSW 1996–2002	82
	Infant characteristics	84
	Table 108: Birth defect cases by gestational age, NSW 1996–2002	84
	Table 109: Birth defect cases by pregnancy outcome, NSW 1996–2002	84
	Maternal characteristics	85
	Table 110: Birth defect cases by maternal age, NSW 1996–2002	85
	Dieth defects and a second templation of an arrangement and arrangement and	
	Birth defects among terminations of pregnancy, spontaneous abortions and unknown outcomes of pregnancy	85
		85
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous	
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and	85
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by	85 86
	 unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 	85 86 86
	 unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects 	85 86 86 87 87
	 unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects by year, NSW 1996–2002 	85 86 86 87 87
	 unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects by year, NSW 1996–2002 Figure 14: Neural tube defects: Cases by year and pregnancy outcome, NSW 1996–2002 	85 86 86 87 87 88
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects by year, NSW 1996–2002 Figure 14: Neural tube defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 15: Cleft palate: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 16: Total cleft lip: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 17: Hypospadias: Cases by year and pregnancy outcome, NSW 1996–2002	85 86 87 87 88 88 89
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects Table 114: Neural tube defects: Cases by year, NSW 1996–2002 Figure 15: Cleft palate: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 16: Total cleft lip: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 17: Hypospadias: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 18: Limb reduction defects: Cases by year and pregnancy outcome, NSW 1996–2002	85 86 87 87 88 88 89
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects by year, NSW 1996–2002 Figure 14: Neural tube defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 15: Cleft palate: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 16: Total cleft lip: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 17: Hypospadias: Cases by year and pregnancy outcome, NSW 1996–2002	85 86 87 87 88 88 89
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects by year, NSW 1996–2002 Figure 14: Neural tube defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 15: Cleft palate: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 16: Total cleft lip: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 17: Hypospadias: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 18: Limb reduction defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 19: Chromosomal abnormalities: Cases by year and pregnancy outcome,	85 86 87 87 88 88 89 89
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects Table 114: Neural tube defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 15: Cleft palate: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 16: Total cleft lip: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 17: Hypospadias: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 18: Limb reduction defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 19: Chromosomal abnormalities: Cases by year and pregnancy outcome, NSW 1996–2002	85 86 87 87 88 88 89 89
	unknown outcomes of pregnancy Table 111: Pregnancies with fetuses affected by birth defects and resulting in spontaneous abortion, termination of pregnancy or unknown outcome, NSW 1996–2002 Table 112: Birth defects among spontaneous abortions, terminations of pregnancy and unknown outcome of pregnancy by diagnostic category, NSW 1996–2002 Table 113: Trends in reported terminations of pregnancy associated with birth defects by maternal age, 1996–2002 Trends in selected birth defects Table 114: Selected birth defects by year, NSW 1996–2002 Figure 14: Neural tube defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 15: Cleft palate: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 16: Total cleft lip: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 17: Hypospadias: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 18: Limb reduction defects: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 19: Chromosomal abnormalities: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 20: Down syndrome: Cases by year and pregnancy outcome, NSW 1996–2002 Figure 21: Renal agenesis and dysgenesis: Cases by year and pregnancy outcome,	85 86 87 87 88 88 89 90 90

10.	NSW HOSPITALS	93
	Onset and augmentation of labour in selected hospitals	93
	Table 116: Confinements by onset and augmentation of labour and hospital, NSW 2002	93
	Type of delivery in selected hospitals	95
	Table 117: Confinements by type of delivery and hospital, NSW 2002	95
	Pain relief in selected hospitals	97
	Table 118: Confinements by type of pain relief and hospital, NSW 2002	97
	Perineal status in selected hospitals	99
	Table 119: Confinements with vaginal deliveries by perineal status and hospital, NSW 2002	99
	Birthweight in selected hospitals	101
	Table 120: Births by birthweight and hospital, NSW 2002	101
	Gestational age in selected hospitals	103
	Table 121: Births by gestational age and hospital, NSW 2002	103
	Admssion to special care and neonatal intensive care units in selected	405
	hospitals	105
	Table 122: Births by admission to special care or neonatal intensive care unit and hospital, NSW 2002	105
	Baby discharge status in selected hospitals	107
	Table 123: Births by baby discharge status and hospital, NSW 2002	107
	Postnatal length of stay in selected hospitals	109
	Table 124: Average maternal postnatal length of stay in hospital of birth, NSW 1997–2001	109
	Indicators of obstetric care	110
	Table 125: Clinical indicators for obstetrics, NSW and Australia, 2002	110
11.	REVIEW OF PERINATAL DEATHS 2002	111
	Introduction	111
	Trends in obstetric antecedents of perinatal death	111
	Obstetric antecedents of perinatal death 2002	111
	Figure 22: Perinatal deaths by obstetric antecedent and year, NSW 2001–2002	112
	Table 126: Perinatal deaths by obstetric antecedent, NSW 2001–2002	112
	Table 127: Perinatal deaths by obstetric antecedent and perinatal outcome, NSW 2002	113
	Obstetric cause of perinatal death by hospital service level 2002	115
	Table 128: Perinatal deaths by obstetric cause and hospital service level, NSW 2002	115
	Time of death 2002	115
	Trends in neonatal causes of death	115
	Neonatal causes of death 2002	115
	Perinatal deaths associated with maternal drug dependency-abuse 2002	115
	Postmortem examination 2002	115
	Table 129: Neonatal deaths by cause and year, NSW 2001–2002	116
	Table 130: Neonatal deaths by cause and gestational age, NSW 2002	117

12.	REPEAT OBSTETRIC INTERVENTIONS AMONG MULTIPAROUS WOMEN GIVING	
	BIRTH IN 2001	118
	Introduction	118
	Methods	118
	Results	118
	Table 131: Epidural anaesthetic in the latest and previous birth by number of previous births	119
	Table 132: Episiotomy in the latest and previous birth by number of previous births	119
	Table 133: Type of delivery in the latest and previous birth by number of previous births	120
	Table 134: Maternal characteristics of included and excluded records	121
	Discussion	120
13.	APPENDICES	
	Appendix 1: Description of selected birth defects	122
	Appendix 2: Birth defect exclusion list	122
	Appendix 3: Maternal countries of birth and country of birth groups	123
	Appendix 4: NSW Midwives Data Collection form	124