

# Contents

<b>1. Acknowledgments</b>	<b>8</b>
<b>2. Executive summary</b>	<b>9</b>
Trends in NSW	9
Aboriginal and Torres Strait Islander mothers and babies	9
Country of birth	10
Congenital conditions	10
Perinatal deaths	10
<b>3. Methods</b>	<b>11</b>
Data sources	11
Method for estimating level of reporting of maternal Aboriginality	13
Definitions	13
Explanatory notes	14
<b>4. Trends in NSW</b>	<b>16</b>
<b>Confinements and births by plurality</b>	<b>16</b>
Table 1. Plurality, NSW, 2003–2007	16
<b>Health area of residence</b>	<b>16</b>
Table 2. Maternal health area of residence, NSW, 2003–2007	16
<b>Maternal age</b>	<b>17</b>
Figure 1. Mothers aged less than 20 years and 35 years and over, NSW, 2003–2007	17
Table 3. Maternal age, NSW, 2003–2007	17
<b>Maternal country of birth</b>	<b>18</b>
Table 4. Maternal country of birth, NSW, 2003–2007	18
<b>Maternal Aboriginality</b>	<b>19</b>
Table 5. Maternal Aboriginality, NSW, 2003–2007	19
<b>Previous pregnancies</b>	<b>19</b>
Table 6. Previous pregnancies, NSW, 2003–2007	19
<b>Duration of pregnancy at first antenatal visit</b>	<b>19</b>
Table 7. Duration of pregnancy at first antenatal visit, NSW, 2003–2007	19
<b>Smoking in pregnancy</b>	<b>20</b>
Table 8. Mothers who smoked at all during pregnancy by number of cigarettes smoked in the second half of pregnancy, NSW, 2003–2007	20
<b>Place of birth</b>	<b>20</b>
Table 9. Maternal place of birth, NSW, 2003–2007	20
<b>Hypertension and diabetes</b>	<b>21</b>
Table 10. Maternal hypertension or diabetes, NSW, 2003–2007	21
<b>Labour</b>	<b>21</b>
Table 11. Onset and augmentation of labour, NSW, 2003–2007	21
<b>Birth</b>	<b>22</b>
Table 12. Type of birth, NSW, 2003–2007	22
Table 13. Maternal health insurance by type of birth, NSW, 2002–2006	22

<b>Baby sex</b>	<b>23</b>
<b>Gestational age</b>	<b>23</b>
Table 14. Gestational age of babies, NSW, 2003–2007	23
<b>Birth weight</b>	<b>23</b>
Table 15. Birth weight of babies, NSW, 2003–2007	23
<b>Apgar score</b>	<b>24</b>
Table 16. Apgar score at 5 minutes, NSW, 2003–2007	24
<b>Perinatal outcome</b>	<b>24</b>
Table 17. Perinatal outcomes, NSW, 2003–2007	24
<b>Maternal deaths</b>	<b>24</b>
Table 18. Maternal deaths by year, NSW, 1990–2006	25
Table 19. Maternal deaths by cause, NSW, 2005 and 2006	25
<b>5. Area health services</b>	<b>26</b>
<b>Confinements</b>	<b>26</b>
<b>Maternal age</b>	<b>26</b>
Table 20. Maternal age by health area of residence, NSW, 2007	26
<b>Maternal country of birth</b>	<b>27</b>
Table 21. Maternal country of birth by health area of residence, NSW, 2007	27
<b>Maternal Aboriginality</b>	<b>27</b>
Table 22. Maternal Aboriginality by health area of residence, NSW, 2007	27
<b>Duration of pregnancy at first antenatal visit</b>	<b>28</b>
Table 23. Duration of pregnancy at first antenatal visit by health area of residence, NSW, 2007	28
<b>Smoking in pregnancy</b>	<b>28</b>
Table 24. Cigarettes smoked in the second half of pregnancy by health area of residence, NSW, 2007	28
<b>Place of birth</b>	<b>29</b>
Table 25. Place of birth by health area of residence, NSW, 2007	29
<b>Labour</b>	<b>29</b>
Table 26. Onset and augmentation of labour by health area of residence, NSW, 2007	29
<b>Birth</b>	<b>30</b>
Table 27. Type of birth by health area of residence, NSW, 2007	30
<b>Birth weight</b>	<b>30</b>
Table 28. Birth weight and health area of residence, NSW, 2007	30
<b>Gestational age</b>	<b>31</b>
Table 29. Gestational age and health area of residence, NSW, 2007	31
<b>Infant feeding</b>	<b>31</b>
Table 30. Live births by infant feeding on discharge and health area of residence, NSW, 2007	31
<b>Perinatal outcomes</b>	<b>32</b>
Table 31. Perinatal outcomes by health area of residence, NSW, 2007	32
<b>Live births by statistical local areas</b>	<b>33</b>
Table 32. Live births by health area and statistical local area of residence, NSW, 2007	33
<b>6. NSW hospitals</b>	<b>35</b>
<b>Onset and augmentation of labour</b>	<b>35</b>
Table 33. Onset and augmentation of labour by health area of hospital, NSW, 2007	35
Table 34. Onset and augmentations of labour by hospital, NSW, 2007	36

<b>Type of birth</b>	<b>38</b>
Table 35. Type of birth by health area of hospital, NSW, 2007	38
Table 36. Type of birth by hospital and maternity service level, NSW, 2007	38
<b>Pain relief</b>	<b>40</b>
Table 37. Pain relief by health area of hospital, NSW, 2007	40
Table 38. Pain relief by hospital and maternity service level, NSW, 2007	40
<b>Perineal status</b>	<b>42</b>
Table 39. Perineal status among vaginal births by health area of hospital, NSW, 2007	42
Table 40. Perineal status among vaginal births by hospital and maternity service level, NSW, 2007	42
<b>Birth weight</b>	<b>44</b>
Table 41. Births by birth weight and health area of hospital, NSW, 2007	44
Table 42. Births by birth weight, hospital and maternity service level, NSW, 2007	44
<b>Gestational age</b>	<b>46</b>
Table 43. Births by gestational age and health area of hospital, NSW, 2007	46
Table 44. Births by gestational age, hospital and maternity service level, NSW, 2007	46
<b>Neonatal resuscitation</b>	<b>48</b>
Table 45. Births by type of resuscitation and health area of hospital, NSW, 2007	48
Table 46. Births by type of resuscitation, hospital and maternity service level, NSW, 2007	48
<b>Admission to special care or neonatal intensive care</b>	<b>50</b>
Table 47. Live births by admission to special care or neonatal intensive care by health area of hospital, NSW, 2007	50
Table 48. Live births by admission to special care of neonatal intensive care, hospital and maternity service level, NSW, 2007	50
<b>Infant feeding</b>	<b>52</b>
Table 49. Live births by type of infant feeding and health area of hospital, NSW, 2007	52
Table 50. Live births by type of infant feeding, hospital and maternity service level, NSW, 2007	52
<b>Baby discharge status</b>	<b>54</b>
Table 51. Baby discharge status by health area of hospital, NSW, 2007	54
Table 52. Baby discharge status by hospital and maternity service level, NSW, 2007	54
<b>Postnatal length of stay</b>	<b>56</b>
Table 53. Average maternal postnatal length of stay in hospital of birth, NSW, 2002–2006	56
<b>Clinical indicators</b>	<b>58</b>
<b>Outcome of selected primipara, Indicator 1.1</b>	<b>58</b>
Table 54. 1.1 Selected primipara who have a spontaneous vaginal birth by hospital, NSW, 2007	58
<b>Outcome of selected primipara, Indicator 1.2</b>	<b>59</b>
Table 55. 1.2 Selected primipara who undergo induction of labour by hospital, NSW, 2003–2007	59
<b>Outcome of selected primipara, Indicator 1.3</b>	<b>60</b>
Table 56. 1.3 Selected primipara who undergo an instrumental vaginal birth by hospital, NSW, 2007	60
<b>Outcome of selected primipara, Indicator 1.4</b>	<b>61</b>
Table 57. 1.4 Selected primipara undergoing caesarean section by hospital, NSW, 2007	61
<b>Vaginal birth following caesarean section, Indicator 2.1</b>	<b>62</b>
Table 58. 2.1 Vaginal delivery after previous primary caesarean section by hospital, NSW, 2007	62

<b>Major perineal tears and surgical repair of the perineum, Indicator 3.1</b>	<b>63</b>
Table 59. 3.1 Selected primipara delivering vaginally with an intact perineum by hospital, NSW, 2007	63
<b>Major perineal tears and surgical repair of the perineum, Indicator 3.2</b>	<b>64</b>
Table 60. 3.2 Selected primipara undergoing episiotomy and no perineal tear by hospital, NSW, 2007	64
<b>Major perineal tears and surgical repair of the perineum, Indicator 3.3</b>	<b>65</b>
Table 61. 3.3 Selected primipara sustaining a perineal tear and no episiotomy by hospital, NSW, 2007	65
<b>Major perineal tears and surgical repair of the perineum, Indicator 3.4</b>	<b>66</b>
Table 62. 3.4 Selected primipara undergoing episiotomy and sustaining a perineal tear by hospital, NSW, 2007	66
<b>Major perineal tears and surgical repair of the perineum, Indicator 3.5</b>	<b>67</b>
Table 63. 3.5 Selected primipara undergoing surgical repair of the perineum for third-degree tear by hospital, NSW, 2007	67
<b>Major perineal tears and surgical repair of the perineum, Indicator 3.6</b>	<b>68</b>
Table 64. 3.6 Selected primipara undergoing surgical repair of the perineum for fourth-degree tear by hospital, NSW, 2007	68
<b>Intrauterine growth restriction, Indicator 8.1</b>	<b>69</b>
Table 65. 8.1 Intrauterine growth restriction at 40 weeks gestation or more by hospital, NSW, 2007	69
<b>Apgar score, Indicator 9.1</b>	<b>70</b>
Table 66. 9.1 Apgar score of 7 or less in term babies by hospital, NSW, 2007	70
<b>7. Aboriginal and Torres Strait Islander mothers and babies</b>	<b>71</b>
<b>Reporting of Aboriginality</b>	<b>71</b>
Table 67. Births to Aboriginal mothers by source of birth report, year of birth and health area of residence, NSW, 2004–2006	71
Figure 2. Level of reporting of maternal Aboriginality to the NSW Midwives Data Collection by year of birth and health area of residence, NSW, 2003–2006	72
Table 68. Birth registrations by maternal and paternal Aboriginality, NSW, 2007	72
Table 69. Births to Aboriginal mothers and fathers by source of birth report, year of birth and health area of residence, NSW, 2004–2006	73
<b>Trends in births</b>	<b>74</b>
Table 70. Aboriginal and Torres Strait Islander mothers and babies by Aboriginality, NSW, 2003–2007	74
<b>Plurality</b>	<b>74</b>
Table 71. Aboriginal and Torres Strait Islander mothers and babies by plurality, NSW, 2003–2007	74
<b>Previous pregnancies</b>	<b>75</b>
Table 72. Previous pregnancies among Aboriginal and Torres Strait Islander mothers, NSW, 2003–2007	75
<b>Maternal age</b>	<b>75</b>
Table 73. Age of Aboriginal and Torres Strait Islander mothers, NSW, 2003–2007	75
<b>Health area of residence</b>	<b>76</b>
Table 74. Health area of residence of Aboriginal and Torres Strait Islander mothers, NSW, 2003–2007	76
Table 75. Health area of residence of Aboriginal and Torres Strait Islander mothers by age, NSW, 2007	76

<b>Duration of pregnancy at first antenatal visit</b>	<b>77</b>
Table 76. Duration of pregnancy at first antenatal visit among Aboriginal and Torres Strait Islander mothers, NSW, 2003–2007	77
Table 77. Duration of pregnancy at first antenatal visit among Aboriginal and Torres Strait Islander mothers by health area of residence, NSW, 2007	77
<b>Smoking in pregnancy</b>	<b>78</b>
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, 2007	78
<b>Medical conditions and obstetric complications</b>	<b>78</b>
Table 78. Maternal medical conditions and obstetric complications by Aboriginality, NSW, 2007	78
<b>Labour and birth</b>	<b>79</b>
Table 79. Labour onset for Aboriginal and Torres Strait Islander mothers, NSW, 2003–2007	79
Table 80. Type of birth among Aboriginal and Torres Strait Islander mothers, NSW, 2003–2007	79
<b>Birth weight</b>	<b>80</b>
Table 81. Weight of Aboriginal and Torres Strait Islander babies, NSW, 2003–2007	80
Table 82. Weight of Aboriginal and Torres Strait Islander babies by health area of residence, NSW, 2007	80
<b>Gestational age</b>	<b>81</b>
Table 83. Gestational age of Aboriginal and Torres Strait Islander babies, NSW, 2003–2007	81
Table 84. Gestational age of Aboriginal and Torres Strait Islander babies by health area of residence, NSW, 2007	81
<b>Apgar score</b>	<b>82</b>
Table 85. Apgar score of Aboriginal and Torres Strait Islander babies, NSW, 2003–2007	82
<b>Infant feeding</b>	<b>82</b>
Table 86. Infant feeding among Aboriginal and Torres Strait Islander liveborn babies by health area of residence, NSW, 2007	82
<b>Perinatal mortality</b>	<b>83</b>
Table 87. Perinatal deaths among Aboriginal and Torres Strait Islander babies, NSW, 2003–2007	83
<b>8. Maternal country of birth</b>	<b>84</b>
<b>Trends in confinements</b>	<b>84</b>
Table 88. Births and confinements by country-of-birth group, NSW, 2003–2007	84
<b>Maternal age</b>	<b>85</b>
Table 89. Age of mother by country-of-birth group and maternal age, NSW, 2007	85
Figure 4. Maternal age by country-of-birth group, NSW, 2006	85
<b>Health area of residence</b>	<b>86</b>
Table 90. Health area of residence by maternal country-of-birth group, NSW, 2007	86
<b>Duration of pregnancy at first antenatal visit</b>	<b>87</b>
Table 91. Duration of pregnancy at first antenatal visit by country-of-birth group, NSW, 2007	87
<b>Smoking in pregnancy</b>	<b>87</b>
Table 92. Smoking in pregnancy by country-of-birth group, NSW, 2007	87
Table 93. Mothers who smoked at all during pregnancy by number of cigarettes smoked in the second half of pregnancy and country-of-birth group, NSW, 2007	88

<b>Medical conditions and obstetric complications</b>	<b>88</b>
Table 94. Maternal medical conditions and obstetric complications by country-of-birth group, NSW, 2007	88
<b>Labour and birth</b>	<b>89</b>
Table 95. Labour onset by country-of-birth group, NSW, 2007	89
Table 96. Type of birth by country-of-birth group, NSW, 2007	89
<b>Birth weight</b>	<b>90</b>
Table 97. Birth weight by maternal country-of-birth group, NSW, 2007	90
<b>Gestational age</b>	<b>90</b>
Table 98. Gestational age by maternal country-of-birth group, NSW, 2007	90
<b>Apgar score</b>	<b>91</b>
Table 99. Apgar score at 5 min by maternal country-of-birth group, NSW, 2007	91
<b>Infant feeding</b>	<b>91</b>
Table 100. Infant feeding among liveborn babies by country-of-birth group, NSW, 2007	91
<b>Perinatal outcomes</b>	<b>92</b>
Table 101. Perinatal outcomes by country-of-birth group, NSW, 2007	92
<b>9. Congenital conditions</b>	<b>93</b>
<b>Congenital conditions among stillborn and live born infants</b>	<b>93</b>
<b>Trends in reported congenital conditions</b>	<b>93</b>
Table 102. Cases of congenital conditions, NSW, 2001–2007	93
<b>Congenital conditions by diagnostic category</b>	<b>93</b>
Table 103. Congenital conditions among stillbirths and live born infants by diagnostic category, NSW, 2001–2007	93
<b>Infant characteristics</b>	<b>95</b>
Table 104. Cases of congenital conditions by gestational age, NSW, 2001–2007	95
Table 105. Cases of congenital conditions by pregnancy outcome, NSW, 2001–2007	95
<b>Maternal characteristics</b>	<b>96</b>
Table 106. Cases of congenital conditions by maternal age, NSW, 2001–2007	96
<b>Congenital conditions among terminations of pregnancy, spontaneous abortions and unknown outcomes of pregnancy</b>	<b>96</b>
Table 107. Pregnancies with fetuses affected by congenital conditions resulting in termination, spontaneous abortion or unknown outcome, NSW, 2001–2007	96
Table 108. Congenital conditions among terminations, spontaneous abortions and unknown outcomes of pregnancy by diagnostic category, NSW, 2001–2007	97
<b>Trends in selected congenital conditions</b>	<b>98</b>
Table 109. Selected congenital conditions by year, NSW, 2001–2007	98
Figure 5. Neural tube defects: cases by year and pregnancy outcome, NSW, 2001–2007	99
Figure 6. Chromosomal anomalies: cases by year and pregnancy outcome, NSW, 2001–2007	99
Figure 7. Down syndrome: cases by year and pregnancy outcome, NSW, 2001–2007	100
Figure 8. Diaphragmatic hernia: cases by year and pregnancy outcome, NSW, 2001–2007	100
<b>Congenital conditions by NSW health areas</b>	<b>101</b>
Table 110. Cases of congenital conditions by health area, NSW, 2001–2007	101
<b>10. Perinatal deaths</b>	<b>102</b>
<b>Review of perinatal deaths 2007</b>	<b>102</b>
<b>Trends in causes of perinatal death</b>	<b>102</b>
Table 111. Perinatal deaths by PSANZ perinatal death classification, NSW, 2006–2007	102

<b>Causes of perinatal death 2007</b>	<b>102</b>
Table 112. Perinatal deaths by PSANZ perinatal death classification and perinatal outcome, NSW, 2007	103
<b>Obstetric cause of perinatal death by hospital service level</b>	<b>106</b>
Table 113. Perinatal deaths by PSANZ perinatal death classification and hospital service level, NSW, 2007	106
<b>Neonatal causes of death</b>	<b>106</b>
Table 114. Neonatal deaths by PSANZ neonatal death classification, NSW, 2006–2007	107
Table 115. Neonatal deaths by PSANZ neonatal death classification and gestational age, NSW, 2007	108
<b>Perinatal deaths associated with maternal drug dependency and abuse 2007</b>	<b>109</b>
<b>Post-mortem examination 2007</b>	<b>109</b>
<b>11. Appendixes</b>	<b>110</b>
Appendix 1. Description of selected congenital conditions	110
Appendix 2. Congenital conditions exclusion list	110
Appendix 3. Maternal countries of birth and country of birth groups	111
Appendix 4. Midwives data collection form	112