



Perinatal Statistics **REPORT**

Health Research and
Information Division

December 2008

2006

Acknowledgements

The collection and analysis of national perinatal data is a large undertaking, and the compilation of an accurate and comprehensive database on a timely basis is greatly dependent on the commitment and support of those at the forefront of collecting the data. Principal among these are the staff of the maternity hospitals and units as well as the many independent midwives involved in practice. We would like to express our sincere appreciation to all who contribute to the accurate recording and timely notification of statistical information for all births nationally.

Data on 65,810 births were analysed for this report. For each of these records additional information, apart from that required to register each birth, had to be collected in each hospital and by each independent midwife. This National Perinatal Reporting System (NPRS) within the Health Research and Information Division at the ESRI is responsible for collecting, coding, inputting and validating these data to create a national database which has been analysed for the production of this report of perinatal events for 2006.

In addition to financing the NPRS, the Department of Health and Children and the Health Service Executive continues to provide essential support for the operation and development of this system. We would like to acknowledge, in particular, the advice and assistance provided by Hugh Magee and Alan Cahill for his comments on an earlier draft of this report.

The HIPE and NPRS teams within the Health Research and Information Division work together to produce a report of this type. We would like to acknowledge, specifically, Deirdre Murphy and Jacqueline O'Reilly for reviewing earlier drafts of this report. We would also like to thank Brian McCarthy and Shane McDermott for their work on the development of the NPRS software system for data entry and validation. Preparation of the data and production of this report was undertaken by Sheelagh Bonham, Aoife Brick, Barbara Clyne, Catherine Glennon and Sean Saunders. We wish to express our sincere thanks to these colleagues for their hard work and commitment.

Table of Contents

List of Tables	ii
List of Figures	v
Executive Summary	vi
SECTION 1	
Introduction	1
Introduction	2
Completeness and Reliability	6
Trends and International Comparisons	8
SECTION 2	
Selected Trends	15
Introduction	16
Selected Trends	17
SECTION 3	
General Characteristics	23
Introduction	24
Part 1: Singleton Births	25
Part 2: Multiple Births	39
SECTION 4	
Perinatal Care	51
Introduction	52
Part 1: Singleton Births	53
Part 2: Multiple Births	61
SECTION 5	
Perinatal Outcomes	67
Introduction	68
Part 1: Singleton Births	69
Part 2: Multiple Births	76
APPENDICES	
Appendix A: Definitions	82
Appendix B: Copy of Part 3 of the Birth Notification Form	87
Appendix C: Classification of Occupation	88
Appendix D: Cause of Death Classification	89
Appendix E: Classification of County of Residence	93
Appendix F: Classification of Nationality	94
Appendix G: Cross-Tabulations of Selected Variables: 2006	98
Appendix H: Domiciliary Births: 1999–2006	125
Appendix I: Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy	134

List of Tables

2.1	Trends in Vital Events, 1999–2006	17
2.2	Trends in Selected Statistics, 1999–2006	18

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates for Singleton Births for the year 2006 for the following variables:

3.1	Age of Mother	25
3.2	Maternal Parity	25
3.3	Mother's Marital Status	27
3.4	Father's Occupation	28
3.5	Mother's Occupation	30
3.6	Number of Previous Stillbirths	31
3.7	Birthweight – All Singleton Births	32
3.8	Birthweight – Males	33
3.9	Birthweight – Females	33
3.10	Gestational Age at Delivery	35
3.11	Interval in Years Since Last Birth	36
3.12	Month of Birth	36
3.13	Mother's Nationality	37
3.14	Father's Nationality	38

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates for Multiple Births for the year 2006 for the following variables:

3.15	Maternities, Twins, Triplets, Quadruplets, and Twinning Rate	39
3.16	Age of Mother	39
3.17	Maternal Parity	40
3.18	Mother's Marital Status	40
3.19	Father's Occupation	41
3.20	Mother's Occupation	42
3.21	Number of Previous Stillbirths	42
3.22	Birthweight – All Multiple Births	43
3.23	Birthweight – Males	44
3.24	Birthweight – Females	44
3.25	Gestational Age at Delivery	45
3.26	Interval in Years Since Last Birth	45
3.27	Month of Birth	46
3.28	Mother's Nationality	48
3.29	Father's Nationality	49

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates for Singleton Births for the year 2006 for the following variables:

4.1	Type of Antenatal Care	53
4.2	Mother's Length of Stay in Hospital Prior to Delivery	53
4.3	Mother's Length of Stay in Hospital After Delivery	54
4.4	Method of Delivery	55
4.5	Advance Hospital Bookings	55
4.6	Size of Maternity Unit (number of live births and stillbirths annually)	56
4.7	Inter-Hospital Transfer of Infants	57
4.8	Rubella: Immune Status of Mother, Numbers and Percentages	57
4.9	Age of Mother by Infant's Type of Feeding, Numbers and Percentages	58

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates for Multiple Births for the year 2006 for the following variables:

4.10	Type of Antenatal Care	61
4.11	Mother's Length of Stay in Hospital Prior to Delivery	61
4.12	Mother's Length of Stay in Hospital After Delivery	62
4.13	Method of Delivery	63
4.14	Advance Hospital Bookings	63
4.15	Inter-Hospital Transfer of Infants	63
4.16	Rubella: Immune Status of Mother, Numbers and Percentages	64
4.17	Age of Mother by Infant's Type of Feeding, Numbers and Percentages	64

The following Tables are based on Singleton Births for the year 2006 for the following variables:

5.1	Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and Mortality Rates by Birthweight	69
5.2	Stillbirths, Early Neonatal Deaths and Mortality Rates by Cause of Death	70
5.3	Perinatal Mortality, Numbers and Rates by Birthweight and Cause of Death	72
5.4	Age at Death, Early Neonatal Deaths	74
5.5	Percentage Distribution of Live Births by Infant's Length of Stay in Hospital	74
5.6	Percentage of Stillbirths and Early Neonatal Deaths undergoing Post-Mortem Examinations	75

The following Tables are based on Multiple Births for the year 2006 for the following variables:

5.7	Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and Mortality Rates by Birthweight	76
5.8	Stillbirths, Early Neonatal Deaths and Mortality Rates by Cause of Death	77
5.9	Numbers of Perinatal Deaths by Birthweight and Cause of Death	78
5.10	Age at Death, Early Neonatal Deaths	79
5.11	Percentage Distribution of Live Births by Infant's Length of Stay in Hospital	79
5.12	Percentage of Stillbirths and Early Neonatal Deaths undergoing Post-Mortem Examinations	79

D1	Cause of Death Coding Rules	91
D2	ICD-10, Cause of Death Codes	92

The following Tables are based on selected variables for the year 2006:

G1	Age of Mother by Maternal Parity, Singleton Live Births and Stillbirths	99
G2	Method of Delivery by Maternal Parity, Singleton Live Births and Stillbirths	100
G3	Mother's Marital Status by Age of Mother, Singleton Live Births and Stillbirths	101
G4	Mother's Marital Status by Age of Father, Singleton Live Births and Stillbirths	102
G5	Gestational Age at Delivery by Maternal Parity, Singleton Live Births and Stillbirths	103
G6	Age of Mother by Gestational Age at Delivery, Singleton Live Births and Stillbirths	104
G7	Method of Delivery by Age of Mother, Singleton Live Births and Stillbirths	105
G8	Birthweight by Gestational Age at Delivery, Singleton Live Births and Stillbirths	106
G9	Method of Delivery by Mother's Length of Stay in Hospital After Delivery, Singleton Live Births and Stillbirths	107
G10	Maternal Parity by Mother's Length of Stay in Hospital After Delivery, Singleton Live Births and Stillbirths	108
G11	Father's Occupation by Infant's Birthweight, Singleton Live Births and Stillbirths	109
G12	Mother's Occupation by Infant's Birthweight, Singleton Live Births and Stillbirths	111
G13	Father's Occupation by Interval in Years Since Last Birth, Singleton Live Births and Stillbirths	113
G14	Mother's Occupation by Interval in Years Since Last Birth, Singleton Live Births and Stillbirths	115
G15	Father's Occupation by Infant's Type of Feeding, Singleton Live Births	117
G16	Mother's Occupation by Infant's Type of Feeding, Singleton Live Births	118
G17	Infant's Type of Feeding by Maternal Parity, Singleton Live Births	119
G18	Mother's County of Residence by Mother's Marital Status, Singleton and Multiple Live Births and Stillbirths	120
G19	Mother's County of Residence by Infant's Type of Feeding, Singleton and Multiple Live Births	122
G20	Mother's County of Residence, Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, Singleton and Multiple Births	124

The following Tables are based on Domiciliary Births:

H1	Trends in Selected Statistics, Domiciliary Births, 1999–2006	126
H2	Age of Mother by Maternal Parity, 2006	127
H3	Age of Mother by Gestational Age at Delivery, 2006	128
H4	Birthweight by Gestational Age at Delivery, 2006	129
H5	Mother's Occupation by Birthweight, 2006	130
H6	Mother's Marital Status by Age of Mother, 2006	131
H7	Father's Occupation by Infant's Type of Feeding, Live Births, 2006	132
H8	Mother's Occupation by Infant's Type of Feeding, Live Births, 2006	133

The following Tables are based on the variable Timing of First Antenatal Care Visit for the year 2006:

I1	Time of First Visit to Doctor or Hospital During Pregnancy, Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, Singleton Births	135
I2	Time of First Visit to Doctor or Hospital During Pregnancy, Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, Multiple Births	135
I3	Mother's Marital Status by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy, Singleton Live Births and Stillbirths	136
I4	Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy, Singleton Live Births and Stillbirths	137

List of Figures

1.1	National Perinatal Reporting System, Diagrammatic View	3
1.2	Perinatal Mortality Rate, Ireland: 1999-2006	8
1.3	Perinatal Mortality Rates for Selected EU Countries: 2006	9
1.4	Trends in Birth Rates for Selected EU Countries: 1999-2006	10
1.5	Birth Rates per 1,000 Population for EU Countries: 2006	11
1.6	Age-Specific Fertility Rates (ASFRs) and Total Period Fertility Rates (TPFRs), Ireland: 1999-2006	12
1.7	Total Period Fertility Rates for Selected EU Countries: 2006	13
<hr/>		
2.1	Percentage of Single Mothers, 1999-2006	19
2.2	Percentage of Births to Single Mothers by Age of Mother, Singleton Births, 1999-2006	20
2.3	Low Birthweight Babies as a Percentage of Total Live Births, 1999-2006	20
2.4	Average Length of Stay in Days for Mothers and Infants, 1999-2006	21
2.5	Caesarean Births as a Percentage of Total Live Births, 1999-2006	21
2.6	Percentage of Mothers Breastfeeding, 1999-2006	22
<hr/>		
3.1	Perinatal Mortality Rates by Age of Mother, Singleton Births, 2006	26
3.2	Percentage Distribution of Parity by Age of Mother, Singleton Births, 2006	26
3.3	Mother's Age: Percentage Distribution of Births for Married and Single Status, Singleton Births, 2006	27
3.4	Perinatal Mortality Rates by Father's Occupation, Singleton Births, 2006	29
3.5	Perinatal Mortality Rates by Mother's Occupation, Singleton Births, 2006	31
3.6	Percentage Distribution of Live Births across Birthweight Groups, Singleton Births, 2006	32
3.7(A)	Perinatal Mortality Rates for Males and Females by Birthweight (500-2499 grams), Singleton Births, 2006	34
3.7(B)	Perinatal Mortality Rates for Males and Females by Birthweight (2500-4500 grams and over), Singleton Births, 2006	34
3.8	Perinatal Mortality Rates by Gestational Age, Singleton Births, 2006	35
3.9	Birthweights: Cumulative Percentages of Singleton and Multiple Live Births, 2006	43
3.10	Percentage of Total Births to Single Mothers by Mother's County of Residence, Singleton and Multiple Live Births and Stillbirths, 2006	47
<hr/>		
4.1	Mother's Postnatal Length of Stay: Cumulative Percentages by Method of Delivery, Singleton Births, 2006	54
4.2	Percentage of Live Births by Size of Maternity Unit, 2006	56
4.3	Percentage of Mothers Breastfeeding by Father's Occupation, Singleton Births, 2006	59
4.4	Percentage of Mothers Breastfeeding by Mother's Occupation, Singleton Births, 2006	59
4.5	Percentage of Mothers Breastfeeding by Age of Mother, Singleton Births, 2006	60
4.6	Percentage Distribution of Births by Mother's Postnatal Length of Stay in Days, 2006	62
4.7	Percentage Distribution of Breastfed Infants by Mother's County of Residence, Singleton and Multiple Live Births, 2006	65

Executive Summary

The principal aim of the National Perinatal Reporting System (NPRS) is the provision of national statistics on perinatal events in Ireland. Since 1999, The Economic and Social Research Institute (ESRI) has been contracted by the Department of Health and Children to oversee the collection, processing, management and reporting of data submitted to the NPRS. In this report, data on pregnancy outcomes, with particular reference to perinatal mortality and important aspects of perinatal care, are presented for 2006. In addition, descriptive social and biological characteristics of mothers giving birth and babies born in 2006 are recorded.

In 2006, 65,810 births were notified to the NPRS, an increase of 6.5 per cent since 2005 and 8.1 per cent since 2002. The significant growth in births reflects the increase in singleton live births between 2005 and 2006 (reported at 59,621 and 63,555 respectively). In 2006 there were 308 stillbirths, giving a stillbirth rate of 4.7 per 1,000 live births and stillbirths in 2006. The stillbirth rate was slightly higher in previous years: 5.0 per 1,000 live births and stillbirths in 2005 and 5.6 per 1,000 live births and stillbirths in 2002. There were 152 early neonatal deaths resulting in an early neonatal death rate of 2.3 per 1,000 live births in 2006. This rate is the same as the rate per 1,000 live births in 2005, but lower than that reported in 2002 (2.8 per 1,000 live births) and still lower than that reported in earlier years. The perinatal mortality rate was 7.0 per 1,000 live births and stillbirths in 2006, a decrease of 0.2 per 1,000 from 2005. The 2006 perinatal mortality rate was also lower than that reported in 2002 (8.4 per 1,000 live births and stillbirths), and is at its lowest since this series of reports started in 1999.

The average birthweight of babies born in 2006 was estimated at just over 3,473 grams, marginally higher than that reported in 2005. The average gestational age at delivery in 2006 of 39.4 weeks has remained fairly constant since 2002. Low birthweight babies (weighing less than 2,500 grams) accounted for 5.0 per cent of total births in 2006. The twinning rate for 2006 was 14.8 per 1,000 maternities, and comprised 958 sets of twin births, 17 sets of triplet births, and 1 set of quadruplet births.

In 2006, single mothers accounted for 31.5 per cent of all women giving birth. This represents an increase of almost 1 percentage point since 2005 and an increase of just over 1.5 percentage points since 2002. Mother's average age has increased slightly from 30.4 years in 2002 to 31.0 years in 2006. There has also been a small increase in the average age of single mothers, which was 25.7 years in 2002 and 26.8 years in 2006. The average maternal parity fell slightly from 1.06 previous births in 2002 to 1.02 previous births in 2006. The breastfeeding rate of 44.4 per cent of maternities with live births in 2006 represents a marginal change from 44.1 per cent reported in 2005.

The number of home births attended by independent domiciliary midwives decreased in 2006 compared to previous years (170 in 2006 compared to 183 in 2005 – a decrease of 7.1 per cent). Over the period 2002 to 2006 the number of births attended by independent domiciliary midwives fell by 41.0 per cent.

Delivery by caesarean section was estimated at 25.4 per cent of total live births in 2006 compared with 25.9 per cent in 2005 and 22.4 per cent in 2002. In 2006, 24.3 per cent of singleton births were delivered by caesarean section. While the comparable rate for 2002 was 21.6 per cent. The percentage of multiple births delivered by caesarean section in 2006 was 59.8 per cent, which is over 10 percentage points higher than that reported in 2002.

Average lengths of stay for both mother and infant continued to decline in 2006. Infant's length of stay decreased from an average of 3.9 days in 2002 to 3.7 days in 2006, while mother's average total length of stay fell from 4.1 days in 2002 to 3.7 days in 2006.

The proportion of early neonatal deaths undergoing post-mortem examinations was estimated at 44.4 per cent in 1999. By 2005 this indicator had fallen to 24.4 per cent, while the estimate for 2006 is 26.8 per cent.

Introduction

SECTION

1

Introduction

AIMS

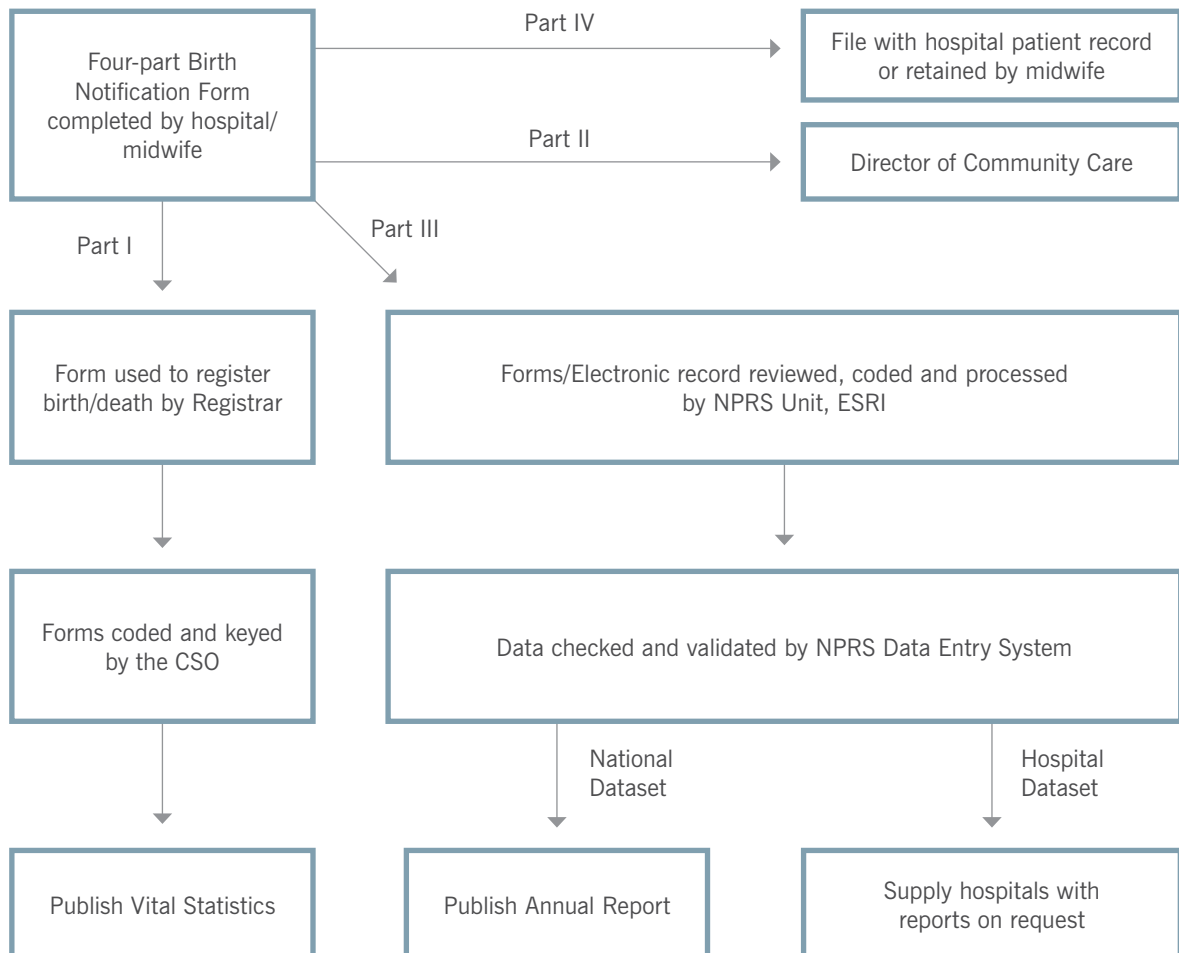
This report of the National Perinatal Reporting System (NPRS) has as its principal aim the provision of national statistics on perinatal events for the year 2006. More specifically, the report aims to describe the fundamental social and biological characteristics of mothers and their babies, to report on pregnancy outcomes with particular reference to perinatal mortality, and to highlight important aspects of perinatal care. Although great strides have been made in reducing infant and perinatal mortality during the past twenty years, the perinatal period continues to be a time of relatively high mortality. Set in this context, the importance of monitoring variables related to perinatal health becomes evident.

This report presents what might be considered as a minimum national data set, and is intended to serve as a foundation for the development of basic time series analyses and allow for the possible addition of further variables and more extensive analysis in future years. In mid-2003 the birth notification form (BNF01/2003) was revised to facilitate a number of new fields that were required by the General Register Office (GRO) for birth registrations (part 1). These changes have resulted in the collection of two new variables by the NPRS: nationality and country of residence for both the mother and father. These variables were reported on for the first time in 2004. It is hoped that the publication of the data reported to the NPRS will stimulate a wider interest in research in the area of perinatal epidemiology and promote a general recognition of the importance of having an accurate and complete perinatal reporting system at a national level. For background information on the development of the perinatal reporting system please see previous reports (HIPE & NPRS Unit, Report on Perinatal Statistics for 2002, The Economic and Social Research Institute, 2005). The definitions for parameters estimated in this report are contained in Appendix A.

DATA COLLECTION AND PROCESSING

Births are registered and notified on a standard four-part form (see Appendix B). The top copy of the form is sent by the hospital to the Registrar of Births and serves as the official document of registration. This copy is subsequently forwarded to the Central Statistics Office (CSO) for use in the production of quarterly and annual reports on vital statistics. The second part of the form, containing additional information on the health of the mother and the infant and the care received, goes to the Director of Community Care and the Medical Officer of Health in the mother's area of residence. It serves the dual purpose of notifying the local medical and nursing services that have responsibility for the postnatal care of the mother and child and of providing the basis for health records used by the HSE regions. The third part of the form has all identifying information deleted and is sent to the Health Research and Information Division at The Economic and Social Research Institute (ESRI). The fourth and final copy is retained by the hospital. For domiciliary births, the same four-part form is used and the first three parts are processed as with hospital births while part 4 is retained by the midwife. Figure 1.1 provides a diagrammatic representation of the information system. All the tables in this report are based on data contained in the third copy of the standard form.

Figure 1.1
National Perinatal Reporting System, Diagrammatic View



The data collected by the NPRS can be grouped logically into demographic, clinical and administrative data. The data collected by the NPRS for 2006 include:

DEMOGRAPHIC DATA

- Date of infant's birth, sex of infant, multiple birth indicator
- Date of father's birth, father's county and country of residence, father's occupation, father's nationality
- Date of mother's birth, mother's county and country of residence, mother's occupation, mother's nationality
- Marital status of mother and date of present marriage

CLINICAL DATA

- Infant's birthweight and period of gestation, and mother's obstetric history (including parity)
- Autopsy indicator – whether stillbirth occurred before or during labour
- Main cause of death and one secondary cause of death for infant
- Maternal immunity to rubella, method of delivery
- Infant's BCG vaccination
- Main maternal disease or condition and one secondary maternal disease or condition affecting the infant or foetus
- Main disease or congenital malformation and one secondary disease or congenital malformation affecting the infant or foetus

ADMINISTRATIVE DATA

- Hospital number, case number (unique to hospital of birth)
- Type of birth indicator, place of birth
- Date of last birth (live birth or stillbirth)
- Type of death indicator, place of death
- Type of antenatal care received, date of first visit to doctor and hospital during pregnancy
- Type of feeding, pre-booked admission indicator, dates of mother's admission and discharge, date of infant's discharge
- Infant transfer indicator, hospital number for hospital to which infant was transferred.

Occupations are coded according to the CSO system of socio-economic group classification (see Appendix C). Since 2005, diseases and cause of death are coded using the Tenth Revision of the International Classification of Diseases (ICD-10)¹ and according to the guidelines set out by the World Health Organisation (WHO) (see *Perinatal Statistics Report 2005* for further details on updating from ICD-9 to ICD-10). On completion of data entry, the NPRS Unit in The Health Research and Information Division at the ESRI undertakes checks for data coverage and feasibility.

The NPRS data set collects morbidity and mortality data on mothers giving birth and their babies. The NPRS coders are trained in ICD-10 coding practices, with particular focus on chapters *Pregnancy, childbirth and the puerperium*, *Certain conditions originating in the perinatal period*, and *Congenital malformation, deformations and chromosomal abnormalities* (Chapters XV–XVII)². The CSO commenced using ICD-10 from 1 January 2007. See Appendix D for a detailed description on cause of death classification and coding rules applied by coders in the NPRS Unit at the ESRI.

1 World Health Organisation, 2005, *International Statistical Classification of Diseases and Related Health Problems*, 10th Revision. Vols. 1–3. Geneva: World Health Organisation.

2 World Health Organisation, 2005, *International Statistical Classification of Diseases and Related Health Problems*, 10th Revision. Vols. 1–3. Geneva: World Health Organisation.

FORMAT AND CONTENTS

This report presents a set of national tabulations for perinatal events for 2006 indicating frequencies, stillbirth rates, early neonatal death rates, and perinatal mortality rates set out for a number of the most important social, biological and health care variables. The data are presented in four main sections covering selected trends, general characteristics, perinatal care, and perinatal outcomes. The definitions for parameters reported in these sections are contained in Appendix A.

Section 2 (Selected Trends) documents significant trends in the principal variables for the years 1999–2006.

Section 3 (General Characteristics) contains tables relating to the following variables: maternal age, parity, marital status, socio-economic group of mother and father (derived from collection of data on occupations), distribution of previous stillbirths, birthweight (by sex), twinning rate, gestational age, interval since last birth, month of birth, and nationality of mother and father.

Section 4 (Perinatal Care) deals with variables which fall more naturally into the category of use of health care facilities and type of antenatal care received, and deals with the following distributions: type of antenatal care received, length of mother's antenatal and postnatal stay, mother's immunity to rubella, method of delivery, whether hospital admission was booked or not, type of feeding, transfer of infants between hospitals, and classification of outcome according to size of maternity unit.

In Section 5 (Perinatal Outcomes), causes of perinatal deaths and other factors closely related to the outcome of pregnancy are considered. In this section tables are presented on the following variables: numbers of antepartum and intrapartum stillbirths by birthweight groups, numbers and rates for cause of death and cause of death by birthweight, age at death for early neonatal deaths, numbers and percentages of stillbirths and early neonatal deaths undergoing post-mortem examinations, and the length of infant's stay in hospital. It should be noted that Sections 3, 4 and 5 are each divided into two parts: Part 1 relates to singleton births and Part 2 relates to multiple births.

Completeness and Reliability

COVERAGE

The NPRS covers all live births and stillbirths occurring in Ireland. However, there are differences in the vital statistics published by the CSO and the data presented in this report. The reasons for these differences are outlined here.

MISSING VALUES

No attempt has been made to assign values to missing data, and they are included as a separate category in each table. In each year, the proportion of cases with the value 'not stated' continues to decline. This is a positive outcome arising from continued effort on the part of the NPRS staff, hospital administrators, and independent midwives to reduce the number of missing values for all variables collected in the data set. This improves the completeness of the reported data, which is a key objective for the NPRS.

The majority of variables were largely complete in the 2006 data set with birthweight and method of delivery missing for only 7 records. Mother's age was missing for only 44 records and type of feeding was missing for 19 records. For 2006, missing data on information on time of first visit to doctor or hospital during pregnancy remains the same as 2005 and was not recorded for 3.9 per cent of births (see also section on Delivery of Antenatal Care below).

Father's nationality was missing for 11.3 per cent and 2.6 per cent of total births where mother's marital status was recorded as married³ in 2004 and 2005 respectively. For 2006 father's nationality was missing for only 1.4 per cent of total births where mother's marital status was recorded as married. Mother's nationality was missing for 2.9 per cent and 0.7 per cent of total births in 2004 and 2005 respectively and was missing for only 0.2 per cent of all births in 2006. For 2006, father's date of birth was missing for 10.2 per cent of births where mother's marital status was married. Missing values for mother's occupation remained very low: only 0.4 per cent of births in 2006 did not have this information recorded. Notwithstanding improvements in the completeness of returns, the elimination of 'missing values' for all variables continues to be an important objective for the development of the NPRS.

DELIVERY OF ANTENATAL CARE

Changing models of antenatal care are being experienced by mothers in Ireland, and it is intended that the data collected by the NPRS should reflect these changes. The data collected with regard to 'Mother's Health' is intended to describe the mother's first contact with the health services. The data currently collected in this section include the following:

- Type of antenatal care this pregnancy (Hospital/Obstetrician=1, G.P. only=2, Combined=3, None=4, Midwife Only=5)
- Date of first visit to doctor
- Date of first visit to hospital.

3 It should be noted that where a mother's marital status is recorded as 'never married', 'widowed', 'separated', or 'divorced' the GRO does not require father's details to register the birth. This information is, therefore, generally not provided in these circumstances.

Where antenatal care in this pregnancy is indicated as ‘combined care’, it is expected that the dates of first visits to each health professional are recorded. While over 79 per cent of all births in 2006 were recorded as receiving combined antenatal care, almost half of these births recorded date of first visit to doctor as ‘not known’. Regrettably, the absence of these data means that the timing of first contact with health professionals within this category may be recorded as the date of the first hospital visit, even though this is likely to have been later than the first visit to the doctor. The proportion of mothers attending antenatal care during the first 12 weeks in 2006 is, therefore, estimated at around 53 per cent of all births, which is low by European standards. Consequently, caution should be exercised in interpreting the data on the timing of the first visit to health services (see also Appendix I).

AREA OF RESIDENCE

In the interests of safeguarding patient confidentiality the copy of the notification form received by the NPRS unit at the ESRI does not contain the mother’s full address, but only the county designation (see Appendix E). As there is no way of verifying this information, mother’s area of residence has been analysed at county level in this report.

DATA QUALITY

The NPRS seeks to compile an accurate, complete and up-to-date database on perinatal events over a specified time period. As some of the indicators collected by the NPRS are also reported by the CSO, comparisons of both data sets provide an option for checking on data quality. In the past, some discrepancies between data reported by NPRS and the CSO have been attributed to differences in data definitions – see previous reports on *Perinatal Statistics 1999–2005*, Health Research and Information Division, The Economic and Social Research Institute. At the time of finalising the preparation of this report, data on stillbirths and perinatal mortality for 2006 were not available from the CSO. For a discussion of comparisons between NPRS and CSO for these indicators in previous years, see Reports on *Perinatal Statistics* for the years 1999–2005 for further details.

For 2006, the CSO report a provisional twinning rate of 15.4 per 1,000 maternities⁴ and the NPRS report a twinning rate of 14.8 per 1,000 maternities. The differences in these rates may be partly attributable to differences in definition applied in each system. The NPRS data set excludes all births where weight is under 500 grams. In the case of a multiple birth where one or more births from the set weighs under 500 grams, the birth/s weighing under 500 grams is/are removed from the national data set. Any birth/s weighing over 500 grams in the multiple birth set is/are retained in the national data set as a multiple birth/s.⁵ This may result in incomplete sets of multiple births in the national data set and a lower number of multiple births recorded for reporting purposes (see also Table 3.15). There is a single field on the birth notification form that identifies a multiple birth. If these data were not recorded then the NPRS has no way of identifying multiple births. It would be assumed, however, that the additional personal identification data available to the CSO would ensure a more comprehensive estimate of the number of multiple births.

4 Provisional data obtained from the Vital Statistics section, CSO, (personal communication, 28 October 2008).

5 The following example may clarify the approach applied: A set of twins are born. Twin 1 weighs less than 500 grams, twin 2 weighs more than 500 grams. Twin 1 is removed from the national data set and twin 2 remains in the national data set and is recorded as the second twin of a multiple birth.

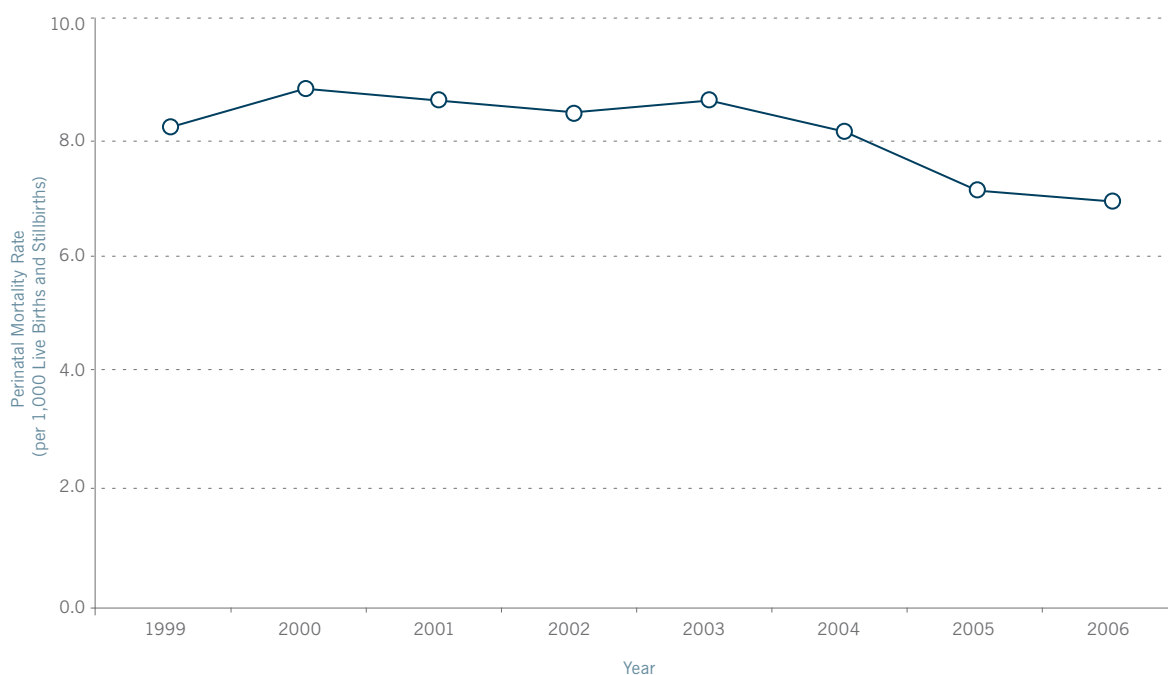
Trends and International Comparisons

This section presents data on three key indicators that are influential in determining the structure of the Irish population. At a national level, the data presented in this section show how these parameters have changed in Ireland over time. International comparisons then allow the most recent statistics for Ireland to be compared with those for other European countries. The indicators for Ireland were estimated using data from the NPRS for the period 1999 to 2006.⁶

PERINATAL MORTALITY

Figure 1.2 shows the perinatal mortality rate in Ireland from 1999 to 2006. The perinatal mortality rate is the ratio of total stillbirths and early neonatal deaths to total live births and stillbirths, and is expressed as the rate per 1,000 live births and stillbirths. In 1999 the perinatal mortality rate was 8.2 per 1,000 live births and stillbirths. This rate peaked at 8.8 per 1,000 live births and stillbirths in 2000 and declined to 8.6 and 8.4 per 1,000 live births and stillbirths in 2001 and 2002 respectively. For 2003, the perinatal mortality rate increased marginally to 8.6 per 1,000 live births and stillbirths, resuming its decline once again to 8.1 and 7.2 per 1,000 live births and stillbirths in 2004 and 2005 respectively. Over the entire period reported in Figure 1.2, the lowest perinatal mortality rate was recorded in 2006 (7.0 per 1,000 live births and stillbirths).

Figure 1.2
Perinatal Mortality Rate, Ireland: 1999–2006



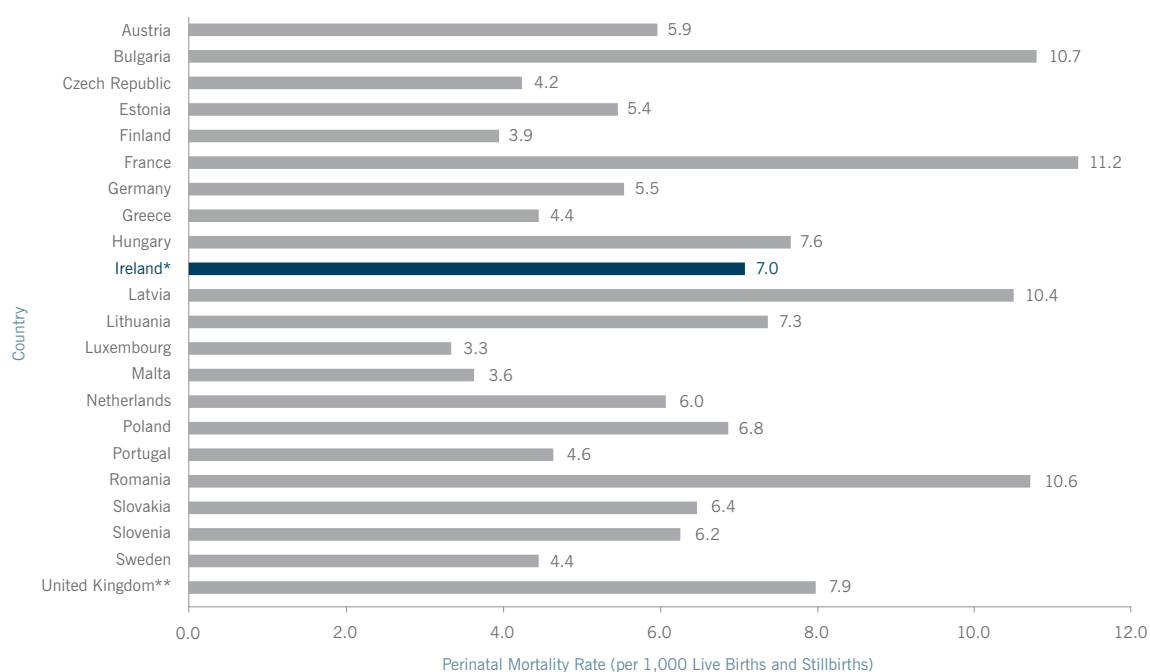
Source: See Table 2.1 for data.

⁶ Data from the NPRS for 1999 to 2005 are contained in previous Reports on *Perinatal Statistics*. In these earlier reports, the data for the years 1999 to 2004 on the three indicators presented in Section 1 were obtained from the CSO.

The factors impacting on the level of perinatal mortality are complex and encompass a wide range of environmental and biological variables. Birthweight, parity, mother's age, social status, and type of antenatal care, as well as many other variables have a bearing on perinatal risk. Data, presented in the subsequent sections of this report, indicate levels of perinatal mortality for the principal variables associated with risk.

Ireland's standing in the European Union (EU) in relation to perinatal mortality is shown in Figure 1.3. For the 22 countries for which 2006 data were available, the highest perinatal mortality rate was recorded in France at 11.2 per 1,000 live births and stillbirths. The country with the lowest perinatal mortality rate was Luxembourg at 3.3 per 1,000 live births and stillbirths. Considering the countries in ascending order of their perinatal mortality rate, Ireland had a comparatively high perinatal mortality rate, ranking 15th out of the 22 countries listed in Figure 1.3. In contrast, the perinatal mortality rates of the United Kingdom (7.9 per 1,000 live births and stillbirths, ranked 18th) and France (11.2 per 1,000 live births and stillbirths, ranked 22nd) were higher still. When countries are compared it should be remembered that rates are affected by national policies on abortion, availability of services related to fertility treatment, differences in the comprehensiveness and accuracy of registration and notification systems, and variations in definitions employed (for example, for stillbirth).

Figure 1.3
Perinatal Mortality Rates for Selected EU Countries: 2006



Source: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted September 2008, <http://epp.eurostat.ec.europa.eu>

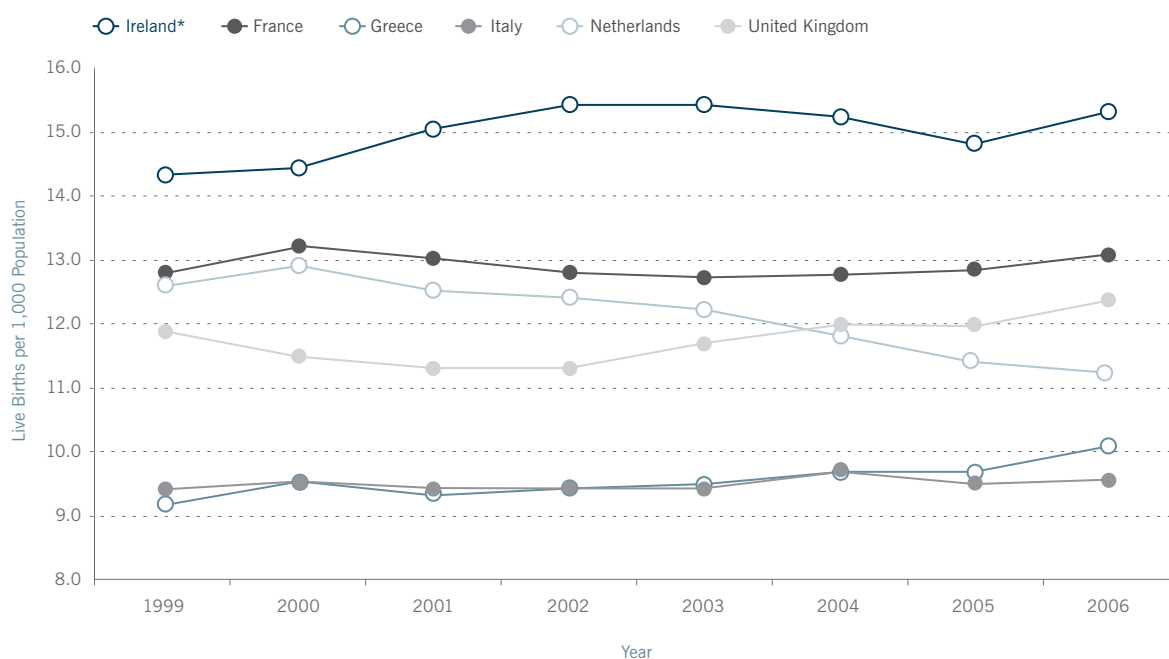
* Data for Ireland are based on NPRS data. See Table 2.1 for data.

** Office for National Statistics, *Health Statistics Quarterly* 39, Autumn 2008

BIRTH RATE

The birth rate is based on the total number of live births per 1,000 population.⁷ Figure 1.4 shows trends in birth rates for selected EU countries since 1999. For the countries reviewed, Ireland has consistently had the highest birth rate over the period. While Ireland's birth rate was closer to that of other European countries in 1999, since 2000 the gap has grown between Ireland and France, the European country closest to Ireland in terms of birth rates. Ireland's birth rate peaked at 15.5 per 1,000 population in 2002 and 2003 declining to 14.9 per 1,000 population in 2005. Returning to 15.4 per 1,000 population in 2006, Ireland continued to have the highest birth rate of any of the 27 EU countries (Figure 1.5).⁸

Figure 1.4
Trends in Birth Rates for Selected EU Countries: 1999–2006



Source: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted September 2008, <http://epp.eurostat.ec.europa.eu>

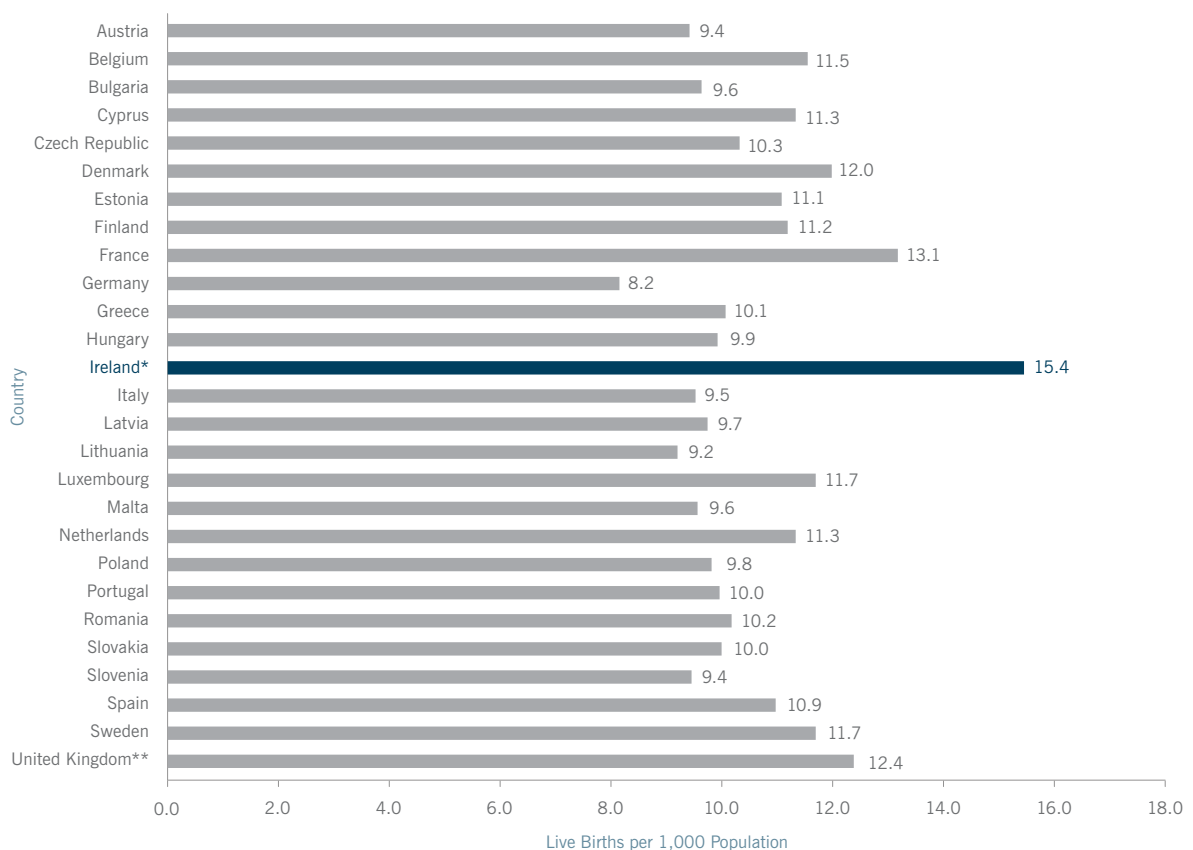
* Data for Ireland are based on NPRS data on live births from 1999 onwards. Population estimates were obtained from Ireland and Northern Ireland's Population Health Observatory (INIsPHO) PHIS (Online) Indicators System, <http://www.inispho.org/phis/indicators>. Population estimates for 2006 were obtained from *Census 2006*.

7 The population estimates used in the denominator of the birth rate were calculated by the Department of Health and Children and obtained from Ireland and Northern Ireland's Population Health Observatory (INIsPHO) PHIS (Online) Indicators System, <http://www.inispho.org/phis/indicators>, date consulted September 2008. For the Census year 2002, population data from PHIS concur with the Census. Population estimates for 2006 were obtained from *Census 2006*.

8 Provisional data obtained from the Vital Statistics section, CSO also estimates the birth rate to be 15.4 for 2006 (personal communication, 28 October 2008).

Figure 1.5 presents the birth rate for EU countries in 2006. Apart from Ireland (15.4), the country with the next highest birth rate is France (13.1) followed by the United Kingdom (12.4). In 2006, Germany (8.2) and Lithuania (9.2) had the lowest birth rate followed by Slovenia and Austria (9.4).

Figure 1.5
Birth Rates per 1,000 Population for EU Countries: 2006



Source: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted September 2008, <http://epp.eurostat.ec.europa.eu>

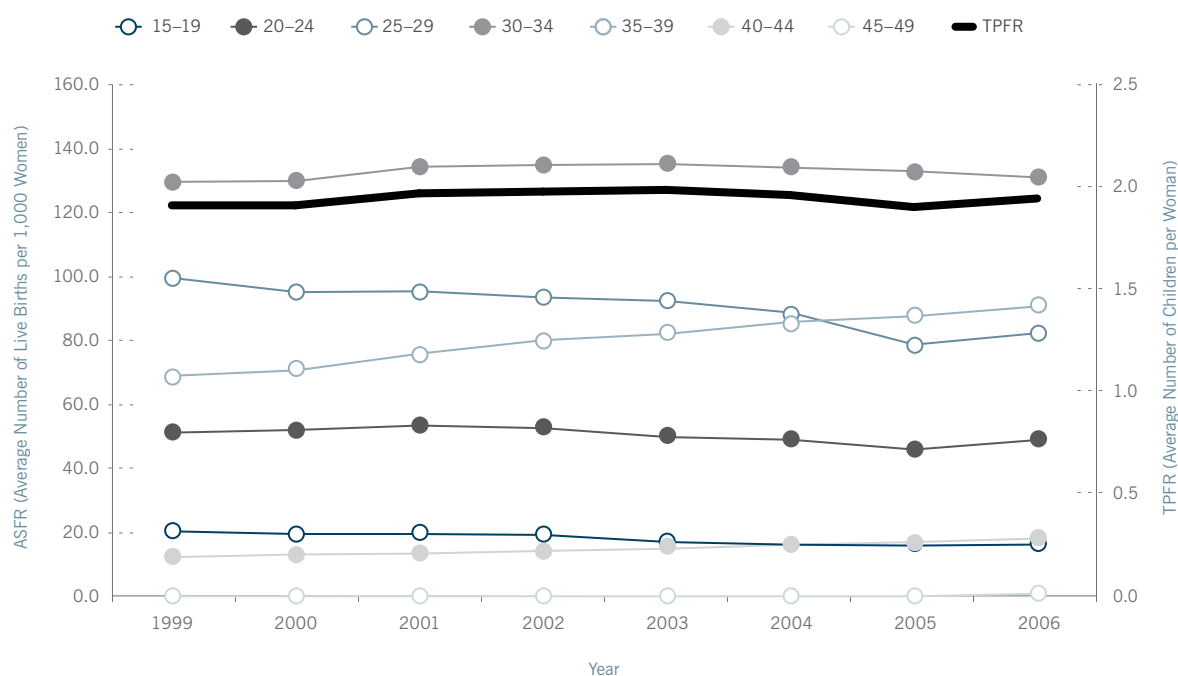
* Data for Ireland are based on NPRS data on live births. Population estimates for 2006 were obtained from *Census 2006*.

It should be noted that the crude birth rate could rise or fall depending on the numbers of women in the age cohorts from 15 to 49 years old. Changes in the crude birth rate often mask underlying trends in fertility. The next section is, therefore, concerned with changes in fertility over time.

FERTILITY

Figure 1.6 shows the trend in the total period fertility rate (TPFR) in Ireland from 1999 to 2006. The TPFR for a given year indicates the number of children a woman could expect to have if the age-specific fertility rates for that year applied throughout her fertile years. The Irish TPFR has increased overall from an average of 1.91 in 1999 to 1.94 in 2006, reaching a high of 1.98 in the intervening years 2002 and 2003.⁹ The age-specific fertility rates (ASFRs), used in the calculation of the TPFR and also shown in Figure 1.6, indicate differences in fertility patterns between younger and older age groups. While the number of live births per 1,000 women aged in the lower age group categories (15 to 19, 20 to 24 and 25 to 29 years) has been declining, women in the higher age group categories (30 to 34, 35 to 39, 40 to 44 and 45 to 49 years) recorded an increasing number of live births over the period 1999–2006. In all years the 30 to 34 year age group recorded the highest ASFR. Both the 35 to 39 and 40 to 44 year age groups have recorded increasing ASFRs each year from 1999, with the ASFR for the 35 to 39 year age group remaining above the 25 to 29 year age group for a second year in 2006. Notably, while the number of live births per 1,000 women in the 20 to 24 and 25 to 29 age groups were declining up to 2005, these have both increased for 2006 but still are lower than levels reported in earlier years. It is interesting also that the ASFR for 40 to 44 year age group is now greater than that reported for the 15 to 19 year age group in 2006.

Figure 1.6
Age-Specific Fertility Rates (ASFRs) and Total Period Fertility Rates (TPFRs), Ireland: 1999–2006

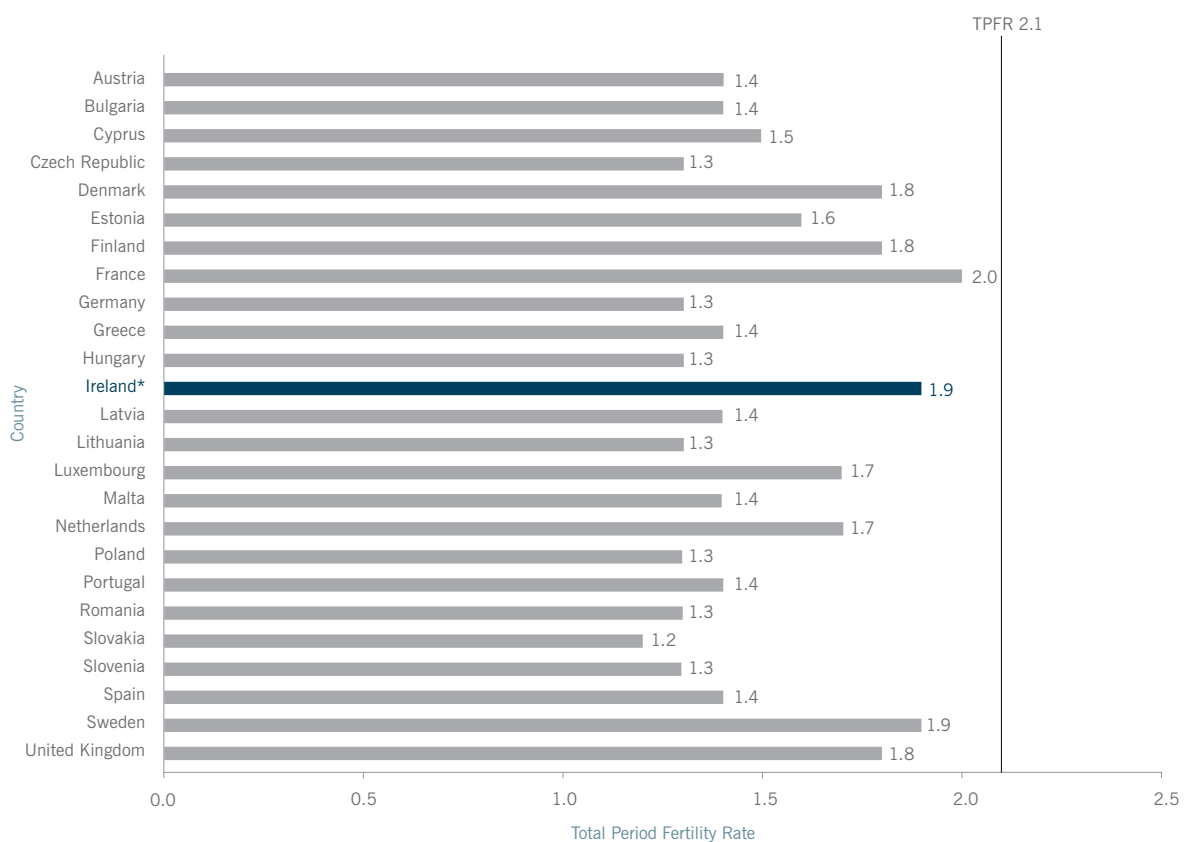


Note: Total period fertility rates (TPFRs) and age-specific fertility rates (ASFRs) are calculated using NPRS data from 1999 onwards. ASFR is the number of live births to women in a particular age group divided by the female population in that age group, multiplied by 1,000. The TPFR is compiled by summing the ASFRs for the relevant five-year age groups, dividing by 1,000 and multiplying by 5. Female population estimates for the years 1999 to 2005 were obtained from Ireland and Northern Ireland's Population Health Observatory (INISPHO) PHIS (Online) Indicators System, <http://www.inispho.org/phis/indicators>, date consulted September 2008. For the Census year 2002, population data from PHIS concur with the Census. Population estimates for 2006 were obtained from *Census 2006*.

⁹ Provisional data obtained from the Vital Statistics section, CSO also estimates the TPFR to be 1.94 for 2006, (personal communication, 28 October 2008).

As in all EU countries for which data are available, the TPF_R for Ireland remains below the level required for the long-term replacement of the population (TPF_R of 2.1) in the absence of any net inward migration. Using data from Eurostat and the NPRS, Figure 1.7 shows that, for 2006, Ireland had the second highest TPF_R in the EU at 1.9, just behind France with a TPF_R of 2.0. For 2006, Slovakia had the lowest TPF_R (1.2) of the EU countries for which data were available.

Figure 1.7
Total Period Fertility Rates for Selected EU Countries: 2006



Source: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted September 2008, <http://epp.eurostat.ec.europa.eu>

* Data for Ireland are based on NPRS data on live births. Population estimates for 2006 were obtained from *Census 2006*.

Selected Trends

SECTION

2

Introduction

A general review of the data reported to the NPRS over the period 1999 to 2006 is presented in this section. Tables 2.1 and 2.2 examine trends in vital and selected statistics for these years. Figures 2.1 to 2.6 present selected data for a number of variables including single mothers, low birthweight babies, caesarean births, mother's breastfeeding, and other aspects of perinatal care. Each of these figures summarises data for 1999 to 2006.

Table 2.1
Trends in Vital Events, 1999–2006
Singleton and Multiple Births, Numbers and Rates (per 1,000) for Live Births, Stillbirths, Early Neonatal Deaths, and Perinatal Deaths

Vital Events	Year																
	1999		2000		2001		2002		2003		2004		2005		2006		
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	
Live Births:	Singleton	52,556	-	53,429	-	56,115	-	58,752	-	59,837	-	60,186	-	59,621	-	63,555	-
	Multiple	1,463	-	1,429	-	1,807	-	1,770	-	1,795	-	1,881	-	1,859	-	1,947	-
	Total	54,019	-	54,858	-	57,922	-	60,522	-	61,632	-	62,067	-	61,480	-	65,502	-
Stillbirths:	Singleton	274	5.2	288	5.4	307	5.4	319	5.4	327	5.4	313	5.2	281	4.7	284	4.4
	Multiple	14	9.5	20	13.8	32	17.4	24	13.4	30	16.4	26	13.6	25	13.3	24	12.2
	Total	288	5.3	308	5.6	339	5.8	343	5.6	357	5.8	339	5.4	306	5.0	308	4.7
Early	Singleton	130	2.5	153	2.9	136	2.4	149	2.5	156	2.6	140	2.3	109	1.8	129	2.0
Neonatal	Multiple	27	18.5	23	16.1	24	13.3	21	11.9	21	11.7	28	14.9	30	16.1	23	11.8
Deaths:	Total	157	2.9	176	3.2	160	2.8	170	2.8	177	2.9	168	2.7	139	2.3	152	2.3
Perinatal	Singleton	404	7.6	441	8.2	443	7.9	468	7.9	483	8.0	453	7.5	390	6.5	413	6.5
Deaths:	Multiple	41	27.8	43	29.7	56	30.5	45	25.1	51	27.9	54	28.3	55	29.2	47	23.8
	Total	445	8.2	484	8.8	499	8.6	513	8.4	534	8.6	507	8.1	445	7.2	460	7.0
Adjusted	Singleton	301	5.7	317	5.9	311	5.5	353	6.0	336	5.6	336	5.6	287	4.8	306	4.8
Perinatal	Multiple	37	25.1	31	21.4	45	24.5	43	24.0	48	26.3	46	24.2	43	23.0	39	19.9
Deaths*:	Total	338	6.2	348	6.3	356	6.1	396	6.5	384	6.2	382	6.1	330	5.4	345	5.3

Note: * In this and subsequent tables, 'Adjusted Perinatal Mortality Rate' gives a perinatal mortality rate which excludes all deaths due to congenital anomalies.

Table 2.2
Trends in Selected Statistics, 1999–2006

Selected Statistics	1999	2000	2001	2002	2003	2004	2005	2006
General Characteristics								
Average Age of Mother in years ¹	30.06	30.18	30.27	30.41	30.58	30.79	31.02	31.04
Average Maternal Parity ¹	1.10	1.09	1.07	1.06	1.05	1.05	1.05	1.02
Single Mothers (%) ^{1,2}	29.73	30.09	30.14	30.01	30.20	30.63	30.71	31.53
Average Age of Single Mothers in years ^{1,2}	24.74	24.98	25.36	25.72	26.10	26.38	26.63	26.82
Average Number of Previous Stillbirths per 1,000 maternities ¹	14.03	13.06	13.57	12.43	12.02	12.60	12.79	10.57
Average Weight in grams ³								
Singleton Births	3,505.35	3,517.27	3,509.36	3,503.73	3,500.64	3,507.96	3,503.23	3,503.93
Multiple Births	2,467.24	2,509.85	2,470.41	2,489.72	2,487.13	2,471.20	2,469.18	2,464.77
Total Births	3,477.19	3,491.05	3,476.96	3,474.07	3,471.11	3,476.56	3,471.97	3,473.04
Low Birthweight <2500 grams (%) ³								
Singleton Births	3.80	3.84	3.84	3.76	3.87	3.71	3.76	3.74
Multiple Births	47.71	43.35	46.46	44.18	45.07	45.56	45.62	46.38
Total Births	4.99	4.87	5.17	4.94	5.07	4.98	5.02	5.01
Average Gestational Age at delivery in weeks ¹	39.48	39.46	39.47	39.45	39.44	39.38	39.42	39.40
Average Interval since last birth in years ¹	3.82	3.84	3.81	3.85	3.78	3.72	3.76	3.84
Perinatal Care								
Hospital & GP combined antenatal care (%) ¹	72.53	72.43	73.29	74.07	75.86	77.29	77.47	79.01
Mother's Average Length of Stay in days ⁴	4.71	4.54	4.38	4.09	3.95	3.85	3.84	3.72
Immunity to Rubella (%) ¹	89.63	87.76	86.84	86.49	87.30	90.49	90.26	92.21
Method of Delivery (%) ⁵								
Singleton Births								
Spontaneous	65.35	64.56	64.29	63.27	62.24	60.54	60.05	59.80
Caesarean	19.69	20.55	21.05	21.61	23.14	24.23	24.86	24.33
Forceps ⁶	4.27	3.78	3.21	3.19	2.89	2.48	2.85	3.04
Multiple Births								
Spontaneous	32.33	33.73	29.83	33.62	26.30	28.23	25.51	25.83
Caesarean	47.23	50.31	52.74	49.49	58.33	55.82	60.44	59.78
Forceps ⁶	3.08	2.52	2.71	2.99	1.56	2.34	1.67	2.47
Total Births								
Spontaneous	64.46	63.76	63.22	62.41	61.20	59.56	59.00	58.79
Caesarean	20.43	21.32	22.04	22.43	24.17	25.19	25.93	25.39
Forceps ⁶	4.24	3.74	3.20	3.18	2.85	2.48	2.82	3.02
Booked Hospital Admissions (%) ¹	96.57	96.49	98.17	97.59	97.47	98.14	98.41	98.96
Mothers Breastfeeding (%) ⁷	36.16	38.41	39.13	41.14	41.32	42.46	44.13	44.45
Infant's Average Length of Stay in days ⁸								
Singleton Births	4.17	4.08	3.89	3.68	3.62	3.55	3.52	3.47
Multiple Births	10.68	10.73	11.45	10.16	10.09	10.59	10.14	9.85
Total Births	4.34	4.25	4.12	3.87	3.80	3.76	3.72	3.66
Post-mortems for Early Neonatal Deaths (%) ⁹	44.37	39.41	33.55	42.07	41.72	38.16	24.43	26.85

Notes: These selected statistics are set out according to the order in which they appear in subsequent sections of this report.

Further details for each statistic, including mortality rates, are given in these sections.

'Not Stated' or 'Not Known' values are not included in the calculation of percentages.

¹ Based on maternities.

² Data recording marital status as 'never married' are classified as 'single' marital status in this report.

³ Based on live births.

⁴ Based on maternities with live births.

⁵ Based on live births. These figures were not based on total maternities but on total births, to give a more accurate picture as each infant in a multiple pregnancy can have a different method of delivery. See Tables 4.4 and 4.13 for data on all Methods of Delivery.

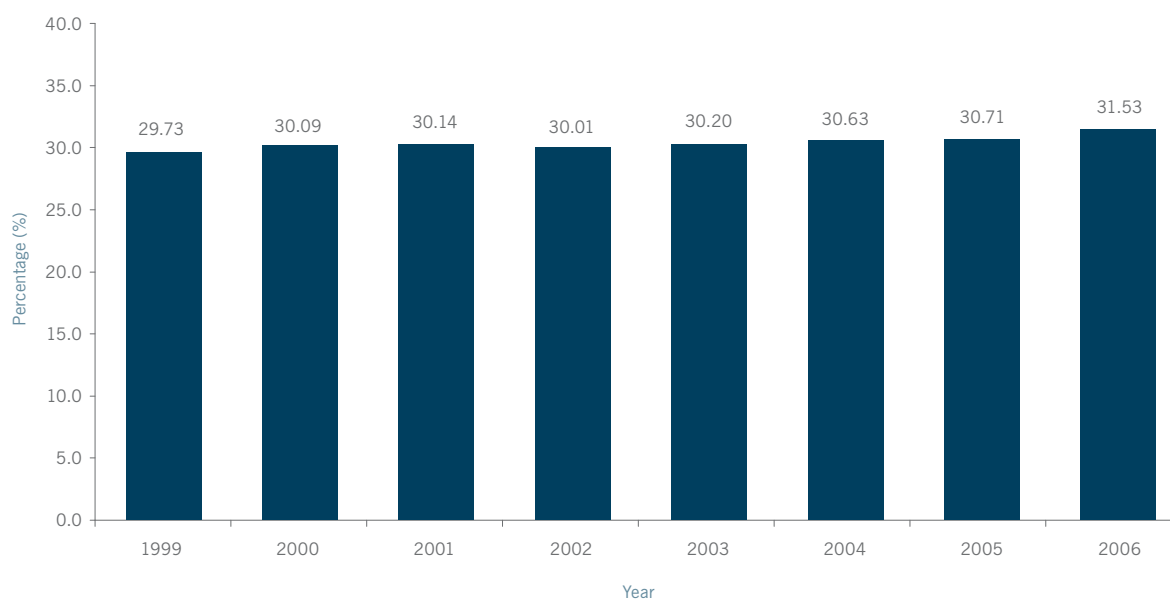
⁶ Excludes breech deliveries.

⁷ Based on maternities with live births. Excludes early neonatal deaths.

⁸ Based on live births. Excludes early neonatal deaths.

⁹ Based on early neonatal deaths.

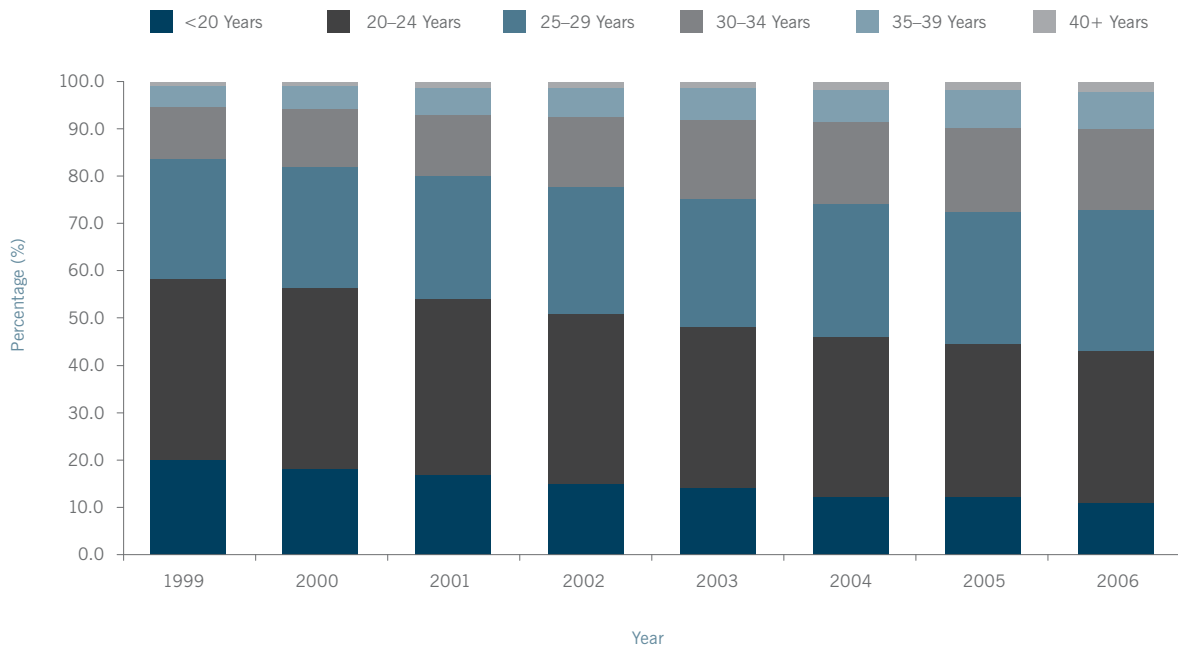
Figure 2.1
Percentage of Single Mothers, 1999–2006



Note: Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Figure 2.2

Percentage of Births to Single Mothers by Age of Mother, Singleton Births, 1999–2006



Source: Reports on *Perinatal Statistics* for 1999–2002, The Economic & Social Research Institute, Appendix E, Tables E3
 Reports on *Perinatal Statistics* for 2003 and 2004, The Economic & Social Research Institute, Appendix F, Table F3
 Report on *Perinatal Statistics* for 2005, The Economic & Social Research Institute, Appendix G, Table G3

Notes: See Appendix G, Table G3 for data on 2006.

Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Figure 2.3

Low Birthweight Babies as Percentage of Total Live Births, 1999–2006

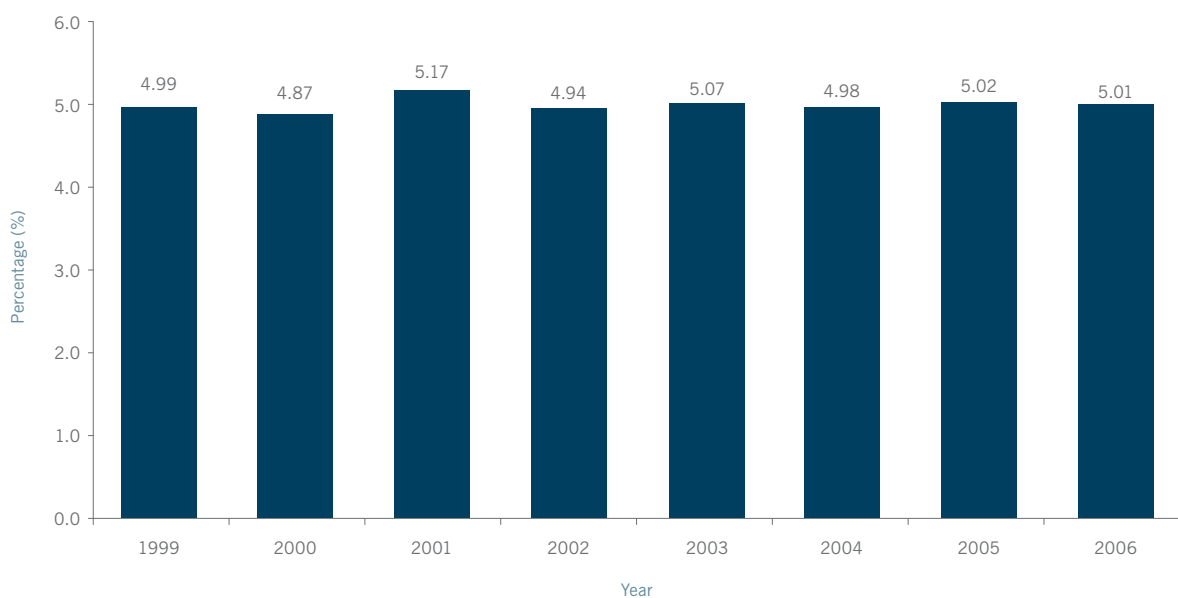
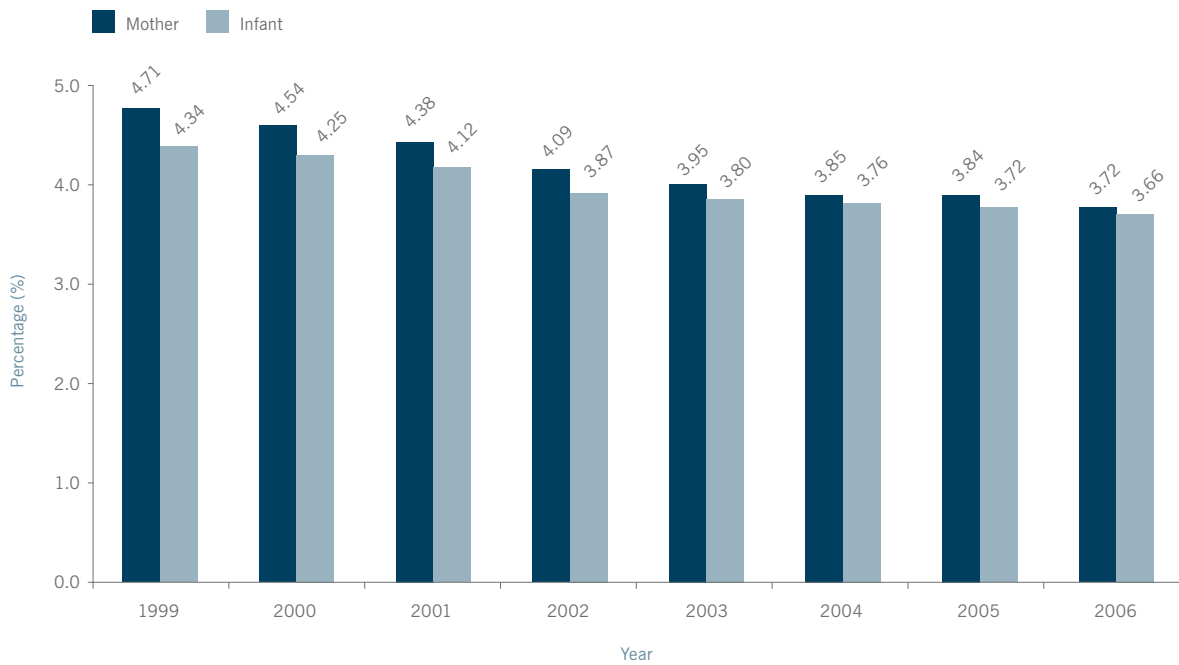


Figure 2.4
Average Length of Stay in Days for Mothers and Infants, 1999–2006



Note: Data on mother’s length of stay are based on maternities with live births only. Data on infant’s length of stay are based on live births, excluding early neonatal deaths.

Figure 2.5
Caesarean Births as a Percentage of Total Live Births, 1999–2006

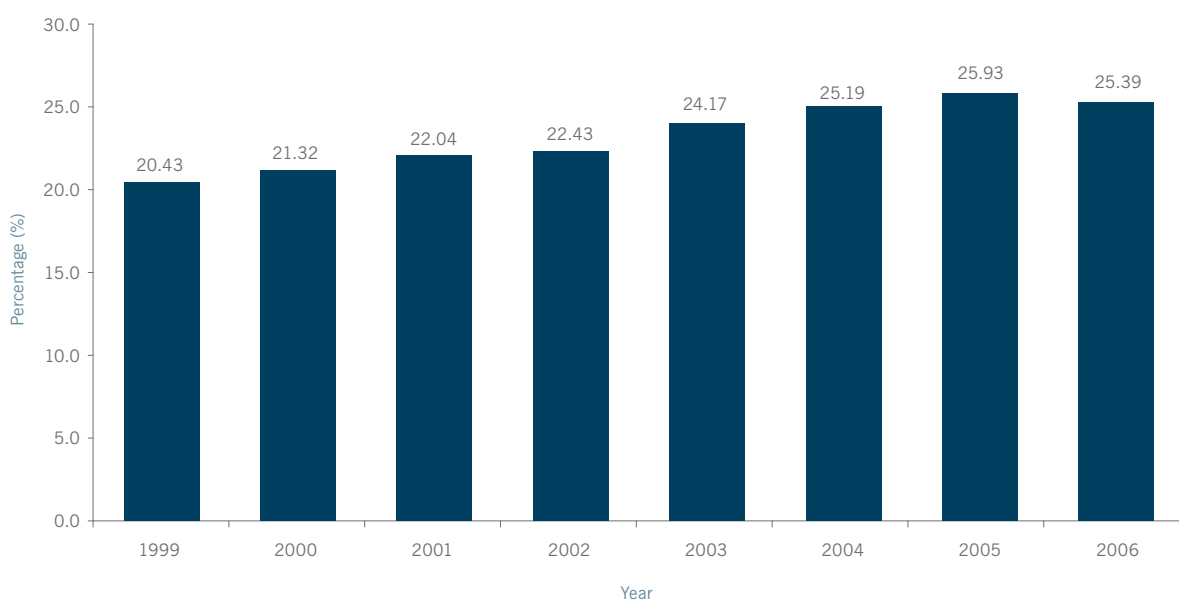
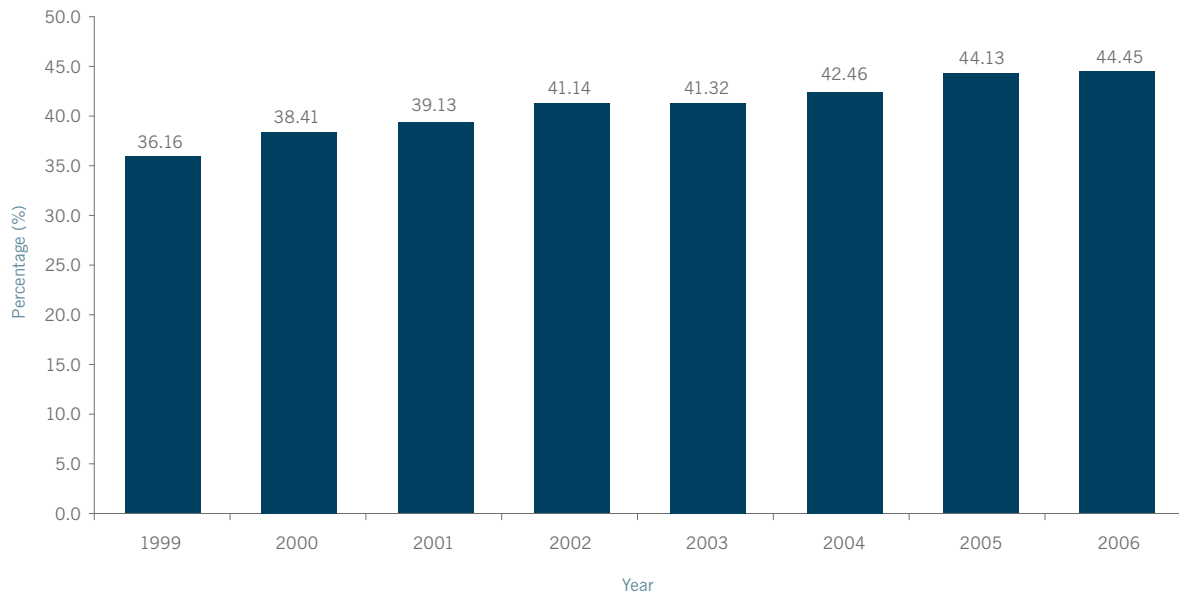


Figure 2.6
Percentage of Mothers Breastfeeding, 1999–2006



Note: Based on maternities with live births, excluding early neonatal deaths.

General Characteristics

SECTION

3

Introduction

This section presents a more detailed analysis of data reported to the NPRS for 2006. Part 1 reports on singleton births and Part 2 on multiple births. The following tables outline data for live births, stillbirths and early neonatal deaths, together with their corresponding rates. The perinatal mortality rate and adjusted perinatal mortality rate are also outlined in each table. Tables and figures are presented in some detail for a number of variables, including mother's age, marital status, father's and mother's occupations and nationalities, and birthweight. See Appendix G, Table G20 for numbers and rates on mother's county of residence.

Part 1: Singleton Births

Table 3.1

Age of Mother

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Singleton Births

Age of Mother	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Under 15 Years	11	0.0	0	0.0	0	0.0	0.0	0.0
15–19 Years	2,297	3.6	18	7.8	6	2.6	10.4	9.1
20–24 Years	8,248	13.0	44	5.3	17	2.1	7.4	5.6
25–29 Years	14,768	23.2	53	3.6	38	2.6	6.1	4.5
30–34 Years	21,661	34.1	78	3.6	40	1.8	5.4	4.3
35–39 Years	13,835	21.8	59	4.2	23	1.7	5.9	3.8
40–44 Years	2,607	4.1	25	9.5	5	1.9	11.4	7.6
45 Years and Over	90	0.1	1	11.0	0	0.0	11.0	11.0
Not Stated	38	0.1	6	136.4	0	0.0	136.4	136.4
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Table 3.2

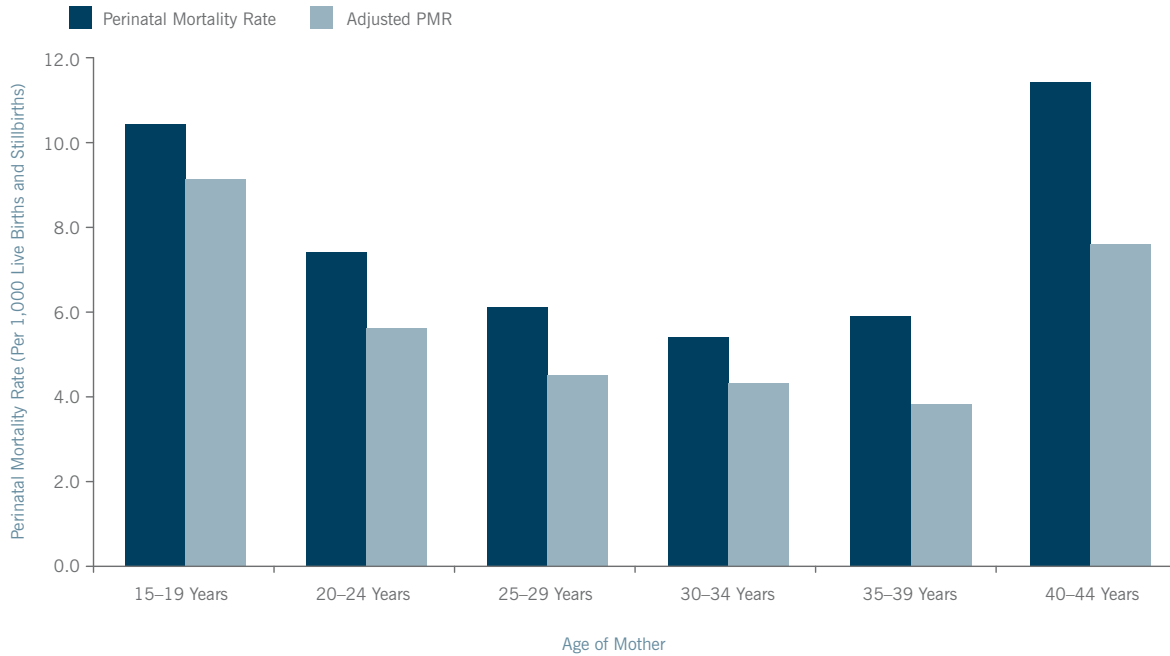
Maternal Parity

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Singleton Births

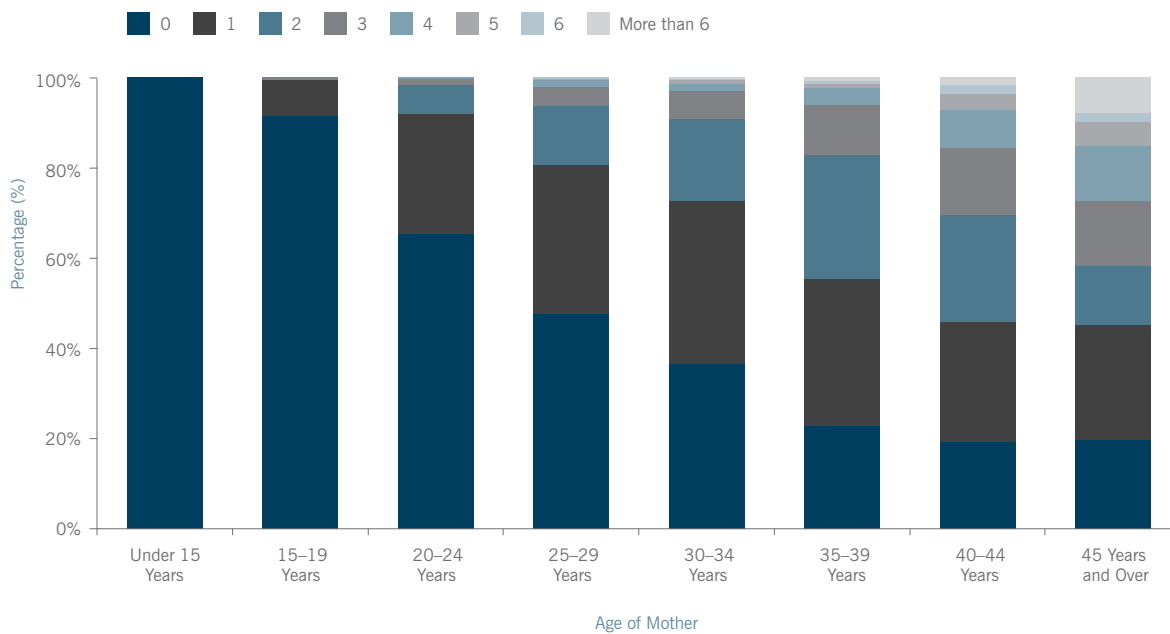
Maternal Parity	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0	26,141	41.1	149	5.7	57	2.2	7.8	6.1
1	20,294	31.9	60	2.9	34	1.7	4.6	2.9
2	10,792	17.0	38	3.5	18	1.7	5.2	3.6
3	4,046	6.4	22	5.4	10	2.5	7.9	6.4
4	1,370	2.2	9	6.5	5	3.6	10.2	8.7
5	489	0.8	4	8.1	3	6.1	14.2	12.2
6	221	0.3	0	0.0	0	0.0	0.0	0.0
More than 6	188	0.3	2	10.5	2	10.6	21.1	15.9
Not Stated	14	0.0	0	0.0	0	0.0	0.0	0.0
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Figure 3.1
Perinatal Mortality Rates by Age of Mother, 2006
Singleton Births



Notes: See Table 3.1 for data. The adjusted rate excludes all deaths due to congenital anomalies. Categories where rates would be based on <100 live births are not included in this graph.

Figure 3.2
Percentage Distribution of Parity by Age of Mother, 2006
Singleton Births



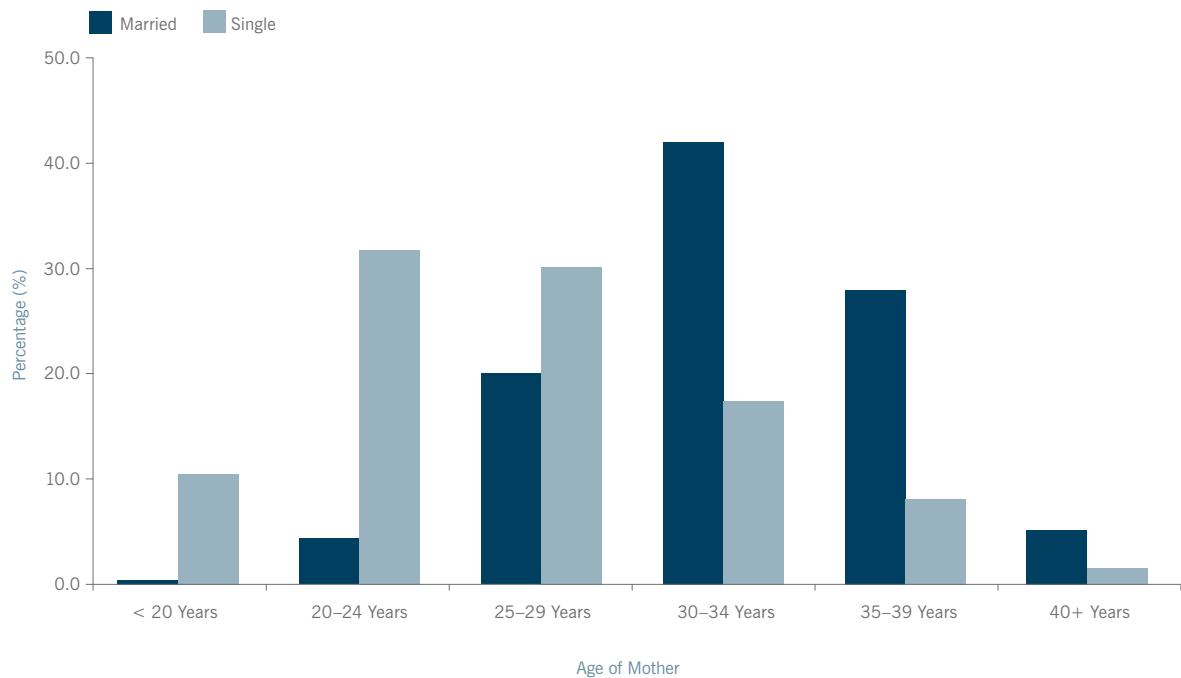
Note: See Appendix G, Table G1 for data. 'Not Stated' data are not included in the calculation of percentages.

Table 3.3
Mother’s Marital Status
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Mother's Marital Status	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Married	42,253	66.5	172	4.1	83	2.0	6.0	4.3
Never Married	20,106	31.6	108	5.3	45	2.2	7.6	5.9
Widowed	102	0.2	1	9.7	0	0.0	9.7	9.7
Separated	693	1.1	3	4.3	1	1.4	5.7	4.3
Divorced	365	0.6	0	0.0	0	0.0	0.0	0.0
Not Stated	36	0.1	0	0.0	0	0.0	0.0	0.0
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Note: Data recording marital status as ‘never married’ are classified as ‘single’ marital status in this report.

Figure 3.3
Mother’s Age: Percentage Distribution of Births for Married and Single Status, 2006
Singleton Births



Notes: See Appendix G, Table G3 for data. ‘Not Stated’ data are not included in the calculation of percentages. Data recording marital status as ‘never married’ are classified as ‘single’ marital status in this report.

Table 3.4

Father's Occupation

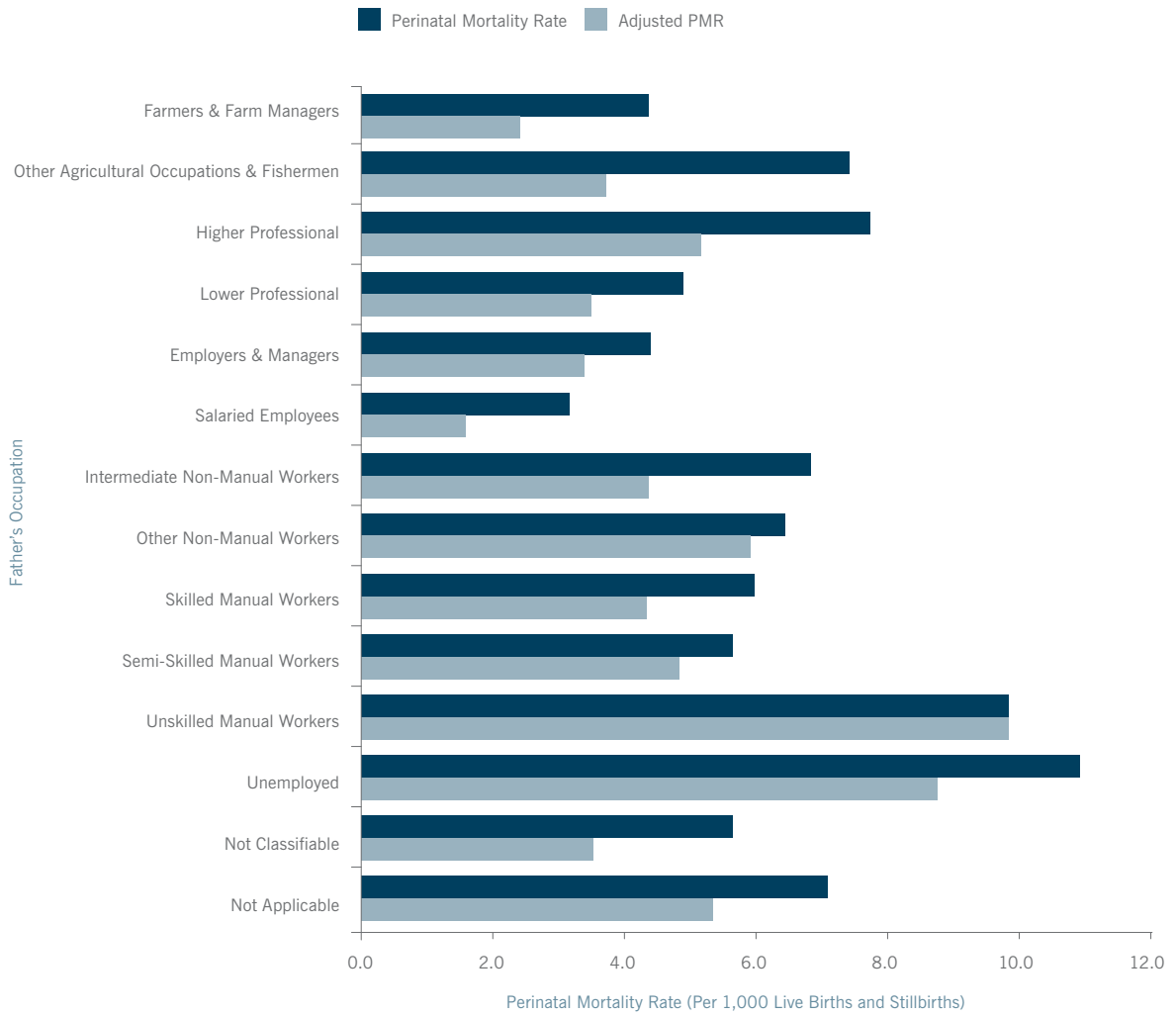
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Singleton Births

Father's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	2,077	3.3	7	3.4	2	1.0	4.3	2.4
Other Agricultural Occupations & Fishermen	813	1.3	3	3.7	3	3.7	7.4	3.7
Higher Professional	4,676	7.4	25	5.3	11	2.4	7.7	5.1
Lower Professional	2,879	4.5	9	3.1	5	1.7	4.8	3.5
Employers & Managers	5,039	7.9	13	2.6	9	1.8	4.4	3.4
Salaried Employees	1,267	2.0	3	2.4	1	0.8	3.1	1.6
Intermediate Non-Manual Workers	4,857	7.6	23	4.7	10	2.1	6.8	4.3
Other Non-Manual Workers	5,444	8.6	26	4.8	9	1.7	6.4	5.9
Skilled Manual Workers	14,155	22.3	54	3.8	30	2.1	5.9	4.3
Semi-Skilled Manual Workers	2,498	3.9	9	3.6	5	2.0	5.6	4.8
Unskilled Manual Workers	609	1.0	6	9.8	0	0.0	9.8	9.8
Unemployed	1,843	2.9	8	4.3	12	6.5	10.8	8.7
Not Classifiable	1,422	2.2	8	5.6	0	0.0	5.6	3.5
Not Applicable	15,283	24.0	80	5.2	28	1.8	7.0	5.3
Home Duties	123	0.2	0	0.0	0	0.0	0.0	0.0
Not Stated	570	0.9	10	17.2	4	7.0	24.1	19.1
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Note: See Appendix C for a description of the classification system for occupations. 'Not Applicable' is used in the classification of father's occupation when the marital status of the mother has been given as never married, widowed, separated or divorced, and where father's occupation has been left blank.

Figure 3.4
Perinatal Mortality Rates by Father's Occupation, 2006
Singleton Births



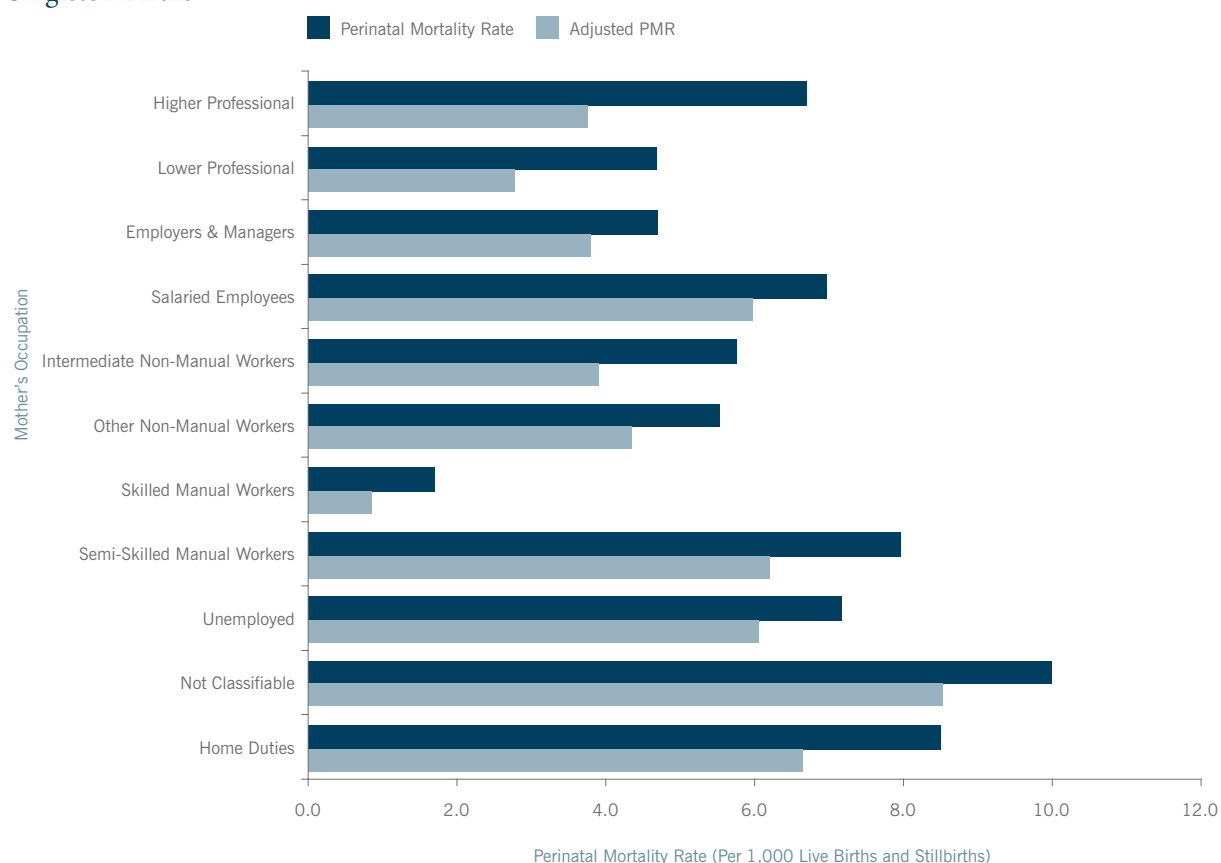
Notes: See Table 3.4 for data. The adjusted rate excludes all deaths due to congenital anomalies. Categories where rates would be based on <100 live births are not included in this graph.

Table 3.5
 Mother's Occupation
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Singleton Births

Mother's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	66	0.1	0	0.0	0	0.0	0.0	0.0
Other Agricultural Occupations & Fishermen	130	0.2	0	0.0	0	0.0	0.0	0.0
Higher Professional	3,726	5.9	20	5.3	5	1.3	6.7	3.7
Lower Professional	8,364	13.2	23	2.7	16	1.9	4.7	2.7
Employers & Managers	4,479	7.0	16	3.6	5	1.1	4.7	3.8
Salaried Employees	1,006	1.6	3	3.0	4	4.0	6.9	6.0
Intermediate Non-Manual Workers	14,579	22.9	54	3.7	30	2.1	5.7	3.9
Other Non-Manual Workers	7,615	12.0	30	3.9	12	1.6	5.5	4.3
Skilled Manual Workers	1,168	1.8	1	0.9	1	0.9	1.7	0.9
Semi-Skilled Manual Workers	2,254	3.5	14	6.2	4	1.8	7.9	6.2
Unskilled Manual Workers	6	0.0	0	0.0	0	0.0	0.0	0.0
Unemployed	2,643	4.2	14	5.3	5	1.9	7.2	6.0
Not Classifiable	2,689	4.2	23	8.5	4	1.5	10.0	8.5
Home Duties	14,600	23.0	81	5.5	43	2.9	8.4	6.6
Not Stated	230	0.4	5	21.3	0	0.0	21.3	21.3
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Note: 'Not Applicable' is not used in the classification of maternal occupation. See Appendix C for a description of the classification system for occupations.

Figure 3.5
Perinatal Mortality Rates by Mother's Occupation, 2006
Singleton Births



Notes: See Table 3.5 for data. The adjusted rate excludes all deaths due to congenital anomalies. Categories where rates would be based on <100 live births are not included in this graph.

Table 3.6
Number of Previous Stillbirths (for women having second and subsequent births)
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Previous Stillbirths	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0	36,814	98.4	129	3.5	70	1.9	5.4	3.7
1	536	1.4	6	11.1	2	3.7	14.8	14.8
2	34	0.1	0	0.0	0	0.0	0.0	0.0
3 and over	17	0.0	0	0.0	0	0.0	0.0	0.0
Not Stated	13	0.0	0	0.0	0	0.0	0.0	0.0
Total	37,414	100	135	3.6	72	1.9	5.5	3.9

Note: Primiparae (i.e. women with no previous live births or stillbirths) are not included in this table.

Table 3.7

Birthweight – All Singleton Births

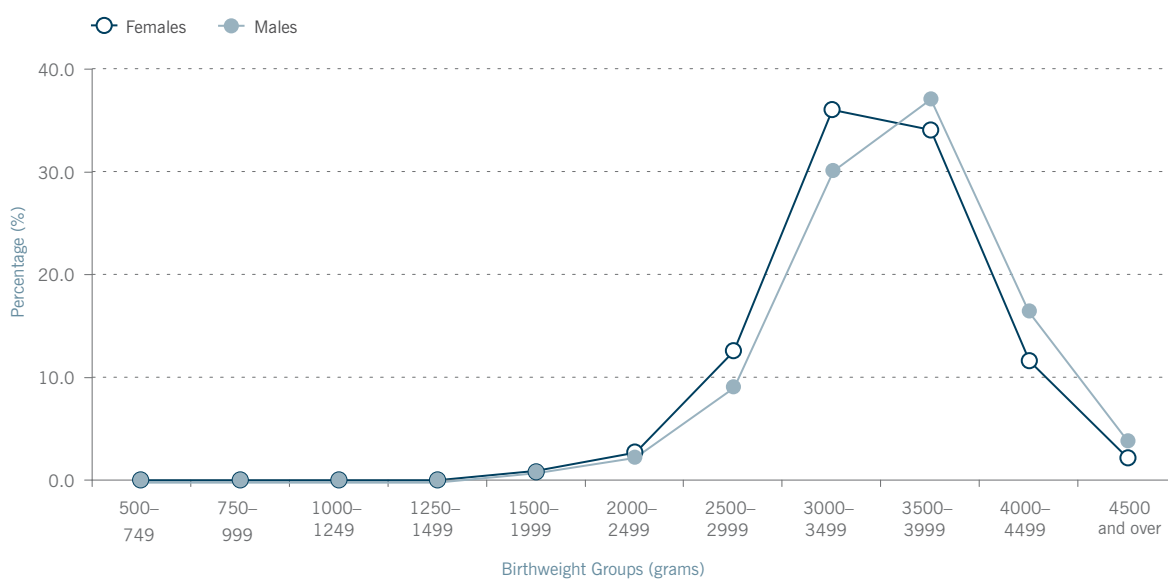
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	69	0.1	39	361.1	30	434.8	638.9	610.0
750–999	95	0.1	33	257.8	12	126.3	351.6	302.5
1000–1249	112	0.2	24	176.5	12	107.1	264.7	200.0
1250–1499	138	0.2	17	109.7	11	79.7	180.6	86.3
1500–1999	458	0.7	38	76.6	18	39.3	112.9	85.2
2000–2499	1,504	2.4	27	17.6	16	10.6	28.1	15.9
2500–2999	6,881	10.8	34	4.9	11	1.6	6.5	4.5
3000–3499	20,777	32.7	39	1.9	8	0.4	2.3	1.8
3500–3999	22,596	35.6	18	0.8	9	0.4	1.2	1.1
4000–4499	9,040	14.2	9	1.0	2	0.2	1.2	1.1
4500 and Over	1,879	3.0	5	2.7	0	0.0	2.7	2.1
Not Stated	6	0.0	1	142.9	0	0.0	142.9	142.9
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Figure 3.6

Percentage Distribution of Live Births across Birthweight Groups, 2006

Singleton Births



Notes: See Tables 3.8 and 3.9 for data.

Figure 3.6 does not include four singleton births for which sex was recorded as 'indeterminate'.

'Not Stated' data are not included in the calculation of percentages.

Table 3.8

Birthweight – Males

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Singleton Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	34	0.1	16	320.0	20	588.2	720.0	681.8
750–999	58	0.2	16	216.2	9	155.2	337.8	279.4
1000–1249	64	0.2	14	179.5	5	78.1	243.6	191.8
1250–1499	68	0.2	10	128.2	8	117.6	230.8	142.9
1500–1999	234	0.7	13	52.6	11	47.0	97.2	59.1
2000–2499	712	2.2	13	17.9	12	16.9	34.5	18.2
2500–2999	2,988	9.1	15	5.0	5	1.7	6.7	4.3
3000–3499	9,679	29.6	20	2.1	5	0.5	2.6	2.1
3500–3999	12,154	37.1	11	0.9	7	0.6	1.5	1.3
4000–4499	5,491	16.8	5	0.9	2	0.4	1.3	1.1
4500 and Over	1,243	3.8	4	3.2	0	0.0	3.2	2.4
Not Stated	4	0.0	1	200.0	0	0.0	200.0	200.0
Total	32,729	100	138	4.2	84	2.6	6.8	4.8

Note: The 2006 data set includes four singleton births for which the sex was recorded as ‘indeterminate’. These births are excluded from Tables 3.8 and 3.9.

Table 3.9

Birthweight – Females

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

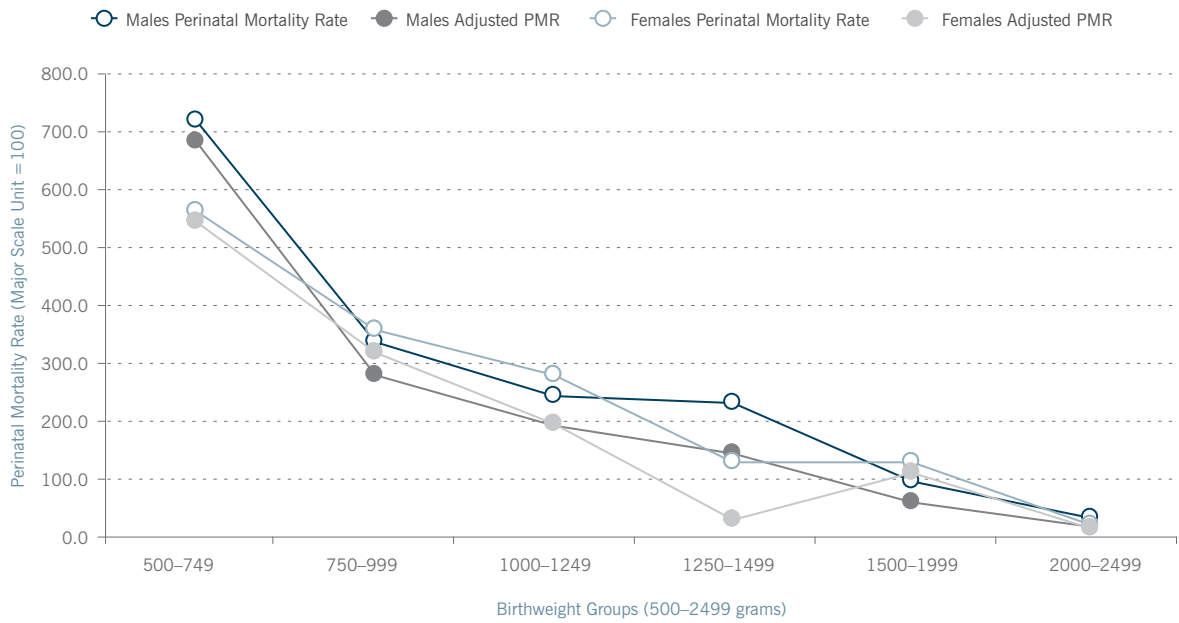
Singleton Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	35	0.1	22	386.0	10	285.7	561.4	545.5
750–999	37	0.1	16	301.9	3	81.1	358.5	320.0
1000–1249	48	0.2	9	157.9	7	145.8	280.7	196.1
1250–1499	70	0.2	7	90.9	3	42.9	129.9	29.0
1500–1999	224	0.7	25	100.4	7	31.3	128.5	110.7
2000–2499	792	2.6	14	17.4	4	5.1	22.3	13.8
2500–2999	3,892	12.6	19	4.9	6	1.5	6.4	4.6
3000–3499	11,098	36.0	19	1.7	3	0.3	2.0	1.5
3500–3999	10,442	33.9	7	0.7	2	0.2	0.9	0.8
4000–4499	3,549	11.5	4	1.1	0	0.0	1.1	1.1
4500 and Over	636	2.1	1	1.6	0	0.0	1.6	1.6
Not Stated	2	0.0	0	0.0	0	0.0	0.0	0.0
Total	30,825	100	143	4.6	45	1.5	6.1	4.7

Note: The 2006 data set includes four singleton births for which the sex was recorded as ‘indeterminate’. These births are excluded from Tables 3.8 and 3.9.

Figure 3.7 (A)

Perinatal Mortality Rate for Males and Females by Birthweight (500–2499 grams), 2006
Singleton Births

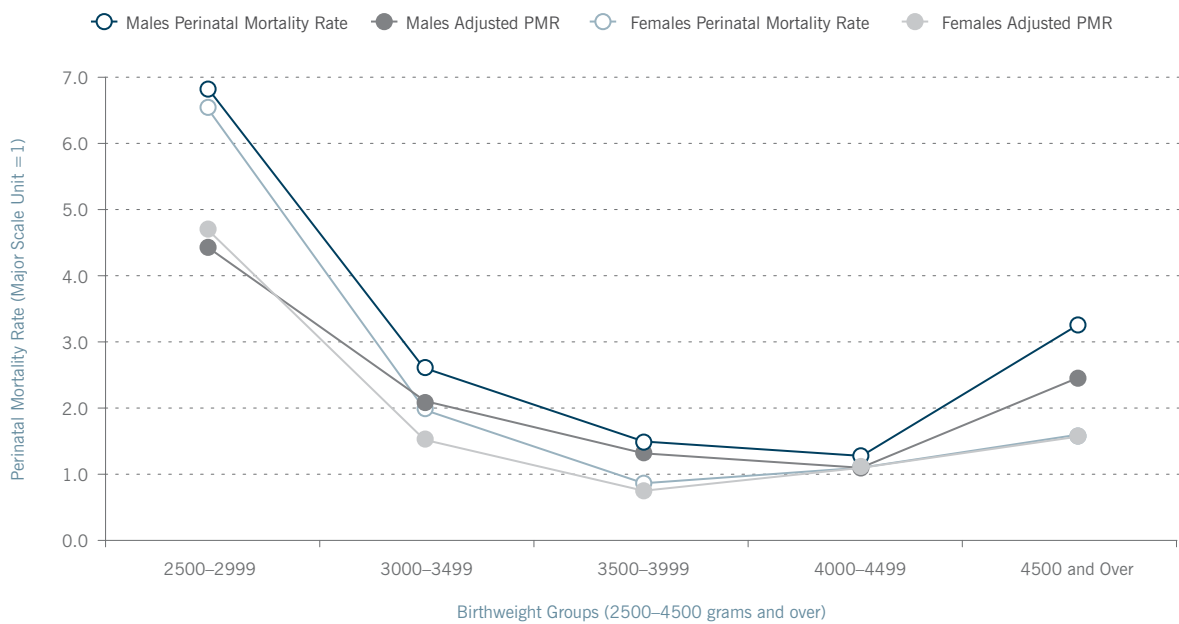


Notes: See Tables 3.8 and 3.9 for data.

Figure 3.7(A) does not include four singleton births for which sex was recorded as 'indeterminate'.

Figure 3.7 (B)

Perinatal Mortality Rate for Males and Females by Birthweight (2500–4500 grams and over), 2006
Singleton Births



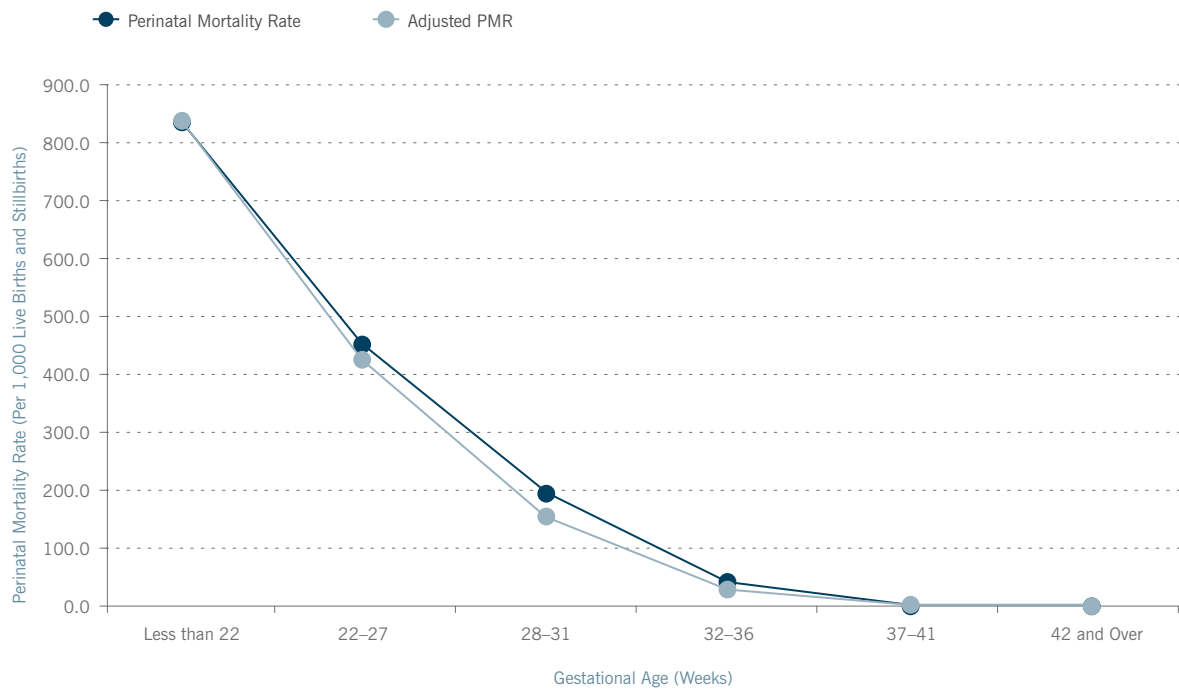
Notes: See Tables 3.8 and 3.9 for data.

Figure 3.7(B) does not include four singleton births for which sex was recorded as 'indeterminate'.

Table 3.10
Gestational Age at Delivery
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Gestational Age (weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Less than 22	4	0.0	2	333.3	3	750.0	833.3	833.3
22–27	151	0.2	43	221.6	44	291.4	448.5	421.6
28–31	317	0.5	56	150.1	17	53.6	195.7	154.9
32–36	2,336	3.7	76	31.5	34	14.6	45.6	27.5
37–41	58,299	91.7	101	1.7	29	0.5	2.2	1.7
42 and Over	2,424	3.8	4	1.6	2	0.8	2.5	1.2
Not Stated	24	0.0	2	76.9	0	0.0	76.9	76.9
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Figure 3.8
Perinatal Mortality Rates by Gestational Age, 2006
Singleton Births



Notes: See Table 3.10 for data. In this table, where rates are based on very small numbers, they should be interpreted with caution.

Table 3.11
Interval in Years Since Last Birth
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Interval Since Last Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
No previous births	26,141	41.1	149	5.7	57	2.2	7.8	6.1
1 year or less	532	0.8	5	9.3	7	13.2	22.3	18.7
>1 year to 2 years	8,899	14.0	23	2.6	15	1.7	4.3	2.6
>2 years to 3 years	9,457	14.9	29	3.1	21	2.2	5.3	3.2
>3 years to 4 years	6,098	9.6	25	4.1	11	1.8	5.9	3.9
>4 years to 5 years	3,624	5.7	12	3.3	4	1.1	4.4	3.3
>5 years to 6 years	2,373	3.7	7	2.9	4	1.7	4.6	3.8
More than 6 years	5,982	9.4	28	4.7	9	1.5	6.2	5.0
Number of previous births unknown	5	0.0	0	0.0	0	0.0	0.0	0.0
Not Stated	444	0.7	6	13.3	1	2.3	15.6	15.6
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Table 3.12
Month of Birth
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Month of Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
January	4,932	7.8	26	5.2	9	1.8	7.1	5.5
February	4,649	7.3	22	4.7	10	2.2	6.9	4.5
March	5,241	8.2	25	4.7	9	1.7	6.5	4.6
April	4,964	7.8	23	4.6	5	1.0	5.6	4.6
May	5,398	8.5	19	3.5	11	2.0	5.5	5.0
June	5,362	8.4	30	5.6	11	2.1	7.6	6.1
July	5,485	8.6	17	3.1	14	2.6	5.6	4.0
August	5,726	9.0	24	4.2	11	1.9	6.1	3.5
September	5,706	9.0	18	3.1	17	3.0	6.1	3.9
October	5,484	8.6	29	5.3	11	2.0	7.3	5.8
November	5,367	8.4	22	4.1	14	2.6	6.7	4.8
December	5,241	8.2	29	5.5	7	1.3	6.8	5.5
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Table 3.13
Mother's Nationality
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Mother's Nationality	Live Births	Per Cent (% Live Births)	Per Cent (% Live Births by Mother's Marital Status)			Stillbirths	Per Cent (% Stillbirths)	Per Cent (% Stillbirth by Mother's Marital Status)			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
			Married	Never Married	Other*			Married	Never Married	Other *					
Ireland	51,728	81.4	54.0	26.1	1.2	223	78.5	48.2	29.6	0.7	4.3	101	2.0	6.2	4.6
UK	2,098	3.3	2.1	1.1	0.1	4	1.4	0.4	1.1	0.0	1.9	5	2.4	4.3	3.8
EU15 (excluding Ireland & UK)	870	1.4	0.8	0.5	0.0	0	0.0	0.0	0.0	0.0	0.0	1	1.1	1.1	0.0
EU15 to EU25 Accession States	2,470	3.9	1.9	1.8	0.2	14	4.9	1.4	3.5	0.0	5.6	5	2.0	7.6	5.6
Rest of Europe	1,094	1.7	1.3	0.4	0.0	5	1.8	0.7	1.1	0.0	4.5	1	0.9	5.5	4.6
Africa	2,502	3.9	2.9	0.9	0.1	20	7.0	4.9	1.8	0.4	7.9	9	3.6	11.5	9.1
Asia	1,958	3.1	2.5	0.5	0.1	13	4.6	3.9	0.7	0.0	6.6	4	2.0	8.6	6.6
America	543	0.9	0.7	0.1	0.0	1	0.4	0.0	0.0	0.4	1.8	3	5.5	7.4	7.4
Australia	122	0.2	0.1	0.0	0.0	1	0.4	0.4	0.0	0.0	8.1	0	0.0	8.1	8.1
New Zealand and Other Oceania	34	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Multi-Nationality	1	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Other Nationality	5	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Not Stated	130	0.2	0.1	0.1	0.0	3	1.1	0.7	0.4	0.0	22.6	0	0.0	22.6	15.2
Total	63,555	100	66.5	31.6	1.9	284	100	60.6	38.0	1.4	4.4	129	2.0	6.5	4.8

Notes: * Including divorced, married but separated, widowed, not stated.
 See Appendix F for a description of the classification system employed for nationalities.

Table 3.14
Father's Nationality
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Father's Nationality	Live Births	Per Cent (%) Live Births			Stillbirths			Per Cent (%) Stillbirths			Per Cent (%) Stillbirth by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
		Per Cent (%) Live Births	Per Cent (%) Live Births by Mother's Marital Status		Stillbirths	Per Cent (%) Stillbirths	Per Cent (%) Stillbirth by Mother's Marital Status		Other *									
			Married	Never Married			Married	Never Married										
Ireland	39,344	61.9	53.6	7.7	0.5	148	52.1	42.6	8.5	1.1	3.7	79	2.0	5.7	4.1			
UK	1,788	2.8	2.3	0.5	0.1	6	2.1	1.8	0.4	0.0	3.3	3	1.7	5.0	3.9			
EU15 (excluding Ireland & UK)	477	0.8	0.7	0.1	0.0	2	0.7	0.7	0.0	0.0	4.2	0	0.0	4.2	4.2			
EU15 to EU25 Accession States	1,358	2.1	1.6	0.5	0.1	8	2.8	1.4	1.4	0.0	5.9	1	0.7	6.6	5.1			
Rest of Europe	770	1.2	1.1	0.1	0.0	4	1.4	1.4	0.0	0.0	5.2	2	2.6	7.8	5.2			
Africa	2,016	3.2	3.0	0.2	0.0	16	5.6	4.9	0.4	0.4	7.9	6	3.0	10.8	9.4			
Asia	1,444	2.3	2.2	0.1	0.0	9	3.2	3.2	0.0	0.0	6.2	2	1.4	7.6	6.9			
America	327	0.5	0.4	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	1	3.1	3.1	3.1			
Australia	102	0.2	0.1	0.0	0.0	1	0.4	0.4	0.0	0.0	9.7	0	0.0	9.7	9.7			
New Zealand and Other Oceania	74	0.1	0.1	0.0	0.0	1	0.4	0.4	0.0	0.0	13.3	0	0.0	13.3	13.3			
Other Nationality	3	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0			
Not Stated	844	1.3	1.3	0.0	0.0	11	3.9	3.9	0.0	0.0	12.9	7	8.3	21.1	15.3			
Not Applicable	15,008	23.6	0.0	22.5	1.1	78	27.5	0.0	27.5	0.0	5.2	28	1.9	7.0	5.4			
Total	63,555	100	66.5	31.6	1.9	284	100	60.6	38.0	1.4	4.4	129	2.0	6.5	4.8			

Notes: * Including divorced, married but separated, widowed, not stated.

See Appendix F for a description of the classification system employed for nationalities.

'Not Applicable' applies to father's nationality only. Where mother's marital status is recorded as 'never married', 'widowed', 'separated' or 'divorced' the GRO does not require father's details to register the birth. This information, therefore, is generally not provided in these circumstances.

Part 2: Multiple Births

Table 3.15
Maternities, Twins, Triplets, Quadruplets, and Twinning Rate for 2006
Multiple Births

Births	Maternities	Sets of Twins	Sets of Triplets	Sets of Quadruplets	Twinning Rate
65,810*	64,815	958	17	1	14.8

Notes: * Includes stillbirths.

In 2006 there were 1,988 multiple births notified to the NPRS, comprising 1,933 twin, 51 triplet and 4 quadruplet births. Of these, 17 twins weighed less than 500 grams. In accordance with the WHO guidelines the National Perinatal data set includes only births weighing 500 grams or more. Therefore, for the purposes of this table the number of complete sets of twins is 958. See also Section 1, Introduction.

Table 3.16
Age of Mother
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Multiple Births

Age of Mother	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
15–19 Years	35	1.8	2	54.1	0	0.0	54.1	54.1
20–24 Years	150	7.7	1	6.6	3	20.0	26.5	26.5
25–29 Years	356	18.3	7	19.3	4	11.2	30.3	24.9
30–34 Years	735	37.8	4	5.4	10	13.6	18.9	13.6
35–39 Years	539	27.7	8	14.6	6	11.1	25.6	22.0
40–44 Years	120	6.2	2	16.4	0	0.0	16.4	16.4
45 Years and Over	12	0.6	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Note: There were no multiple births to mothers aged < 15 years.

Table 3.17

Maternal Parity

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Maternal Parity	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0	881	45.2	13	14.5	10	11.4	25.7	23.5
1	532	27.3	3	5.6	12	22.6	28.0	18.9
2	324	16.6	5	15.2	0	0.0	15.2	15.2
3	131	6.7	3	22.4	0	0.0	22.4	22.4
4	48	2.5	0	0.0	1	20.8	20.8	0.0
5	16	0.8	0	0.0	0	0.0	0.0	0.0
6	8	0.4	0	0.0	0	0.0	0.0	0.0
More than 6	6	0.3	0	0.0	0	0.0	0.0	0.0
Not Stated	1	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table 3.18

Mother's Marital Status

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Mother's Marital Status	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Married	1,492	76.6	17	11.3	18	12.1	23.2	18.6
Never Married	425	21.8	5	11.6	5	11.8	23.3	21.0
Widowed	2	0.1	0	0.0	0	0.0	0.0	0.0
Separated	16	0.8	0	0.0	0	0.0	0.0	0.0
Divorced	12	0.6	2	142.9	0	0.0	142.9	142.9
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Note: Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table 3.19
 Father's Occupation
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Multiple Births

Father's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	68	3.5	0	0.0	0	0.0	0.0	0.0
Other Agricultural Occupations & Fishermen	27	1.4	0	0.0	0	0.0	0.0	0.0
Higher Professional	169	8.7	2	11.7	1	5.9	17.5	17.5
Lower Professional	118	6.1	2	16.7	0	0.0	16.7	16.7
Employers & Managers	186	9.6	3	15.9	4	21.5	37.0	26.7
Salaried Employees	45	2.3	1	21.7	3	66.7	87.0	87.0
Intermediate Non-Manual Workers	141	7.2	0	0.0	2	14.2	14.2	14.2
Other Non-Manual Workers	196	10.1	4	20.0	3	15.3	35.0	30.2
Skilled Manual Workers	428	22.0	3	7.0	4	9.3	16.2	11.7
Semi-Skilled Manual Workers	64	3.3	1	15.4	0	0.0	15.4	0.0
Unskilled Manual Workers	15	0.8	0	0.0	0	0.0	0.0	0.0
Unemployed	76	3.9	1	13.0	1	13.2	26.0	13.2
Not Classifiable	42	2.2	1	23.3	0	0.0	23.3	23.3
Not Applicable	337	17.3	6	17.5	5	14.8	32.1	29.2
Home Duties	4	0.2	0	0.0	0	0.0	0.0	0.0
Not Stated	31	1.6	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Note: See Appendix C for a description of the classification system for occupations. 'Not Applicable' is used in the classification of father's occupation when the marital status of the mother has been given as never married, widowed, separated or divorced, and where father's occupation has been left blank.

Table 3.20

Mother's Occupation

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Mother's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Other Agricultural Occupations & Fishermen	3	0.2	0	0.0	0	0.0	0.0	0.0
Higher Professional	118	6.1	1	8.4	0	0.0	8.4	8.4
Lower Professional	257	13.2	4	15.3	5	19.5	34.5	34.5
Employers & Managers	162	8.3	3	18.2	3	18.5	36.4	30.5
Salaried Employees	31	1.6	2	60.6	0	0.0	60.6	60.6
Intermediate Non-Manual Workers	437	22.4	3	6.8	5	11.4	18.2	15.9
Other Non-Manual Workers	234	12.0	3	12.7	3	12.8	25.3	8.6
Skilled Manual Workers	51	2.6	0	0.0	0	0.0	0.0	0.0
Semi-Skilled Manual Workers	70	3.6	1	14.1	1	14.3	28.2	28.2
Unemployed	50	2.6	3	56.6	0	0.0	56.6	56.6
Not Classifiable	63	3.2	1	15.6	0	0.0	15.6	15.6
Home Duties	463	23.8	3	6.4	6	13.0	19.3	15.1
Not Stated	8	0.4	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Notes: 'Not Applicable' is not used in the classification of maternal occupation.

See Appendix C for a description of the classification system for occupations.

Table 3.21

Number of Previous Stillbirths (for women having second and subsequent births)

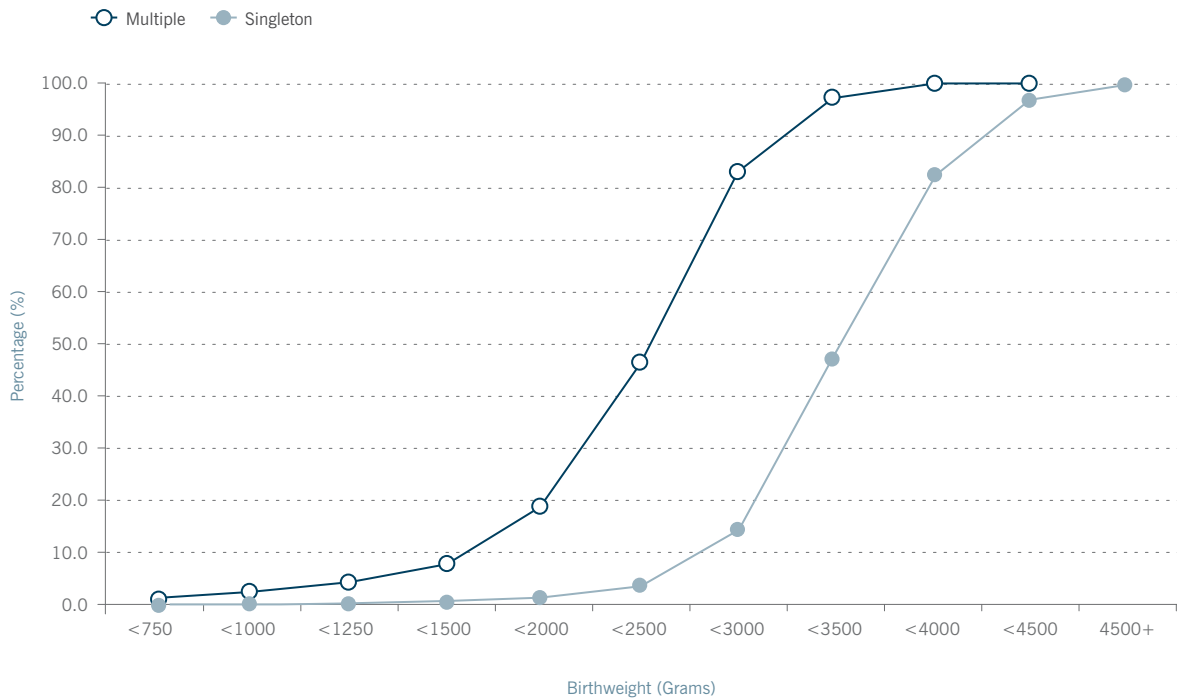
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Previous Stillbirths	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0	1,041	97.7	11	10.5	13	12.5	22.8	17.2
1	24	2.3	0	0.0	0	0.0	0.0	0.0
Not Stated	1	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,066	100	11	10.2	13	12.2	22.3	16.8

Note: Primiparae (i.e. women with no previous live births or stillbirths) are not included in this table.

Figure 3.9
Birthweights: Cumulative Percentages of Singleton and Multiple Live Births, 2006



Notes: See Tables 3.7 and 3.22 for data.

Table 3.22
Birthweight – All Multiple Births
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	20	1.0	5	200.0	8	400.0	520.0	520.0
750–999	29	1.5	1	33.3	4	137.9	166.7	107.1
1000–1249	32	1.6	1	30.3	3	93.8	121.2	121.2
1250–1499	69	3.5	6	80.0	1	14.5	93.3	68.5
1500–1999	216	11.1	5	22.6	1	4.6	27.1	27.1
2000–2499	537	27.6	5	9.2	3	5.6	14.8	11.1
2500–2999	714	36.7	1	1.4	0	0.0	1.4	1.4
3000–3499	279	14.3	0	0.0	3	10.8	10.8	3.6
3500–3999	49	2.5	0	0.0	0	0.0	0.0	0.0
4000–4499	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table 3.23

Birthweight – Males

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	14	1.4	2	125.0	5	357.1	437.5	437.5
750–999	12	1.2	1	76.9	1	83.3	153.8	153.8
1000–1249	10	1.0	1	90.9	2	200.0	272.7	272.7
1250–1499	39	4.0	4	93.0	0	0.0	93.0	71.4
1500–1999	102	10.4	3	28.6	0	0.0	28.6	28.6
2000–2499	259	26.3	2	7.7	1	3.9	11.5	7.7
2500–2999	366	37.2	0	0.0	0	0.0	0.0	0.0
3000–3499	147	14.9	0	0.0	1	6.8	6.8	6.8
3500–3999	34	3.5	0	0.0	0	0.0	0.0	0.0
4000–4499	1	0.1	0	0.0	0	0.0	0.0	0.0
Total	984	100	13	13.0	10	10.2	23.1	21.1

Note: The 2006 data set includes one multiple birth for which sex was recorded as 'indeterminate'. This birth is excluded from Tables 3.23 and 3.24.

Table 3.24

Birthweight – Females

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	6	0.6	3	333.3	3	500.0	666.7	666.7
750–999	17	1.8	0	0.0	3	176.5	176.5	66.7
1000–1249	22	2.3	0	0.0	1	45.5	45.5	45.5
1250–1499	30	3.1	2	62.5	1	33.3	93.8	64.5
1500–1999	114	11.9	2	17.2	1	8.8	25.9	25.9
2000–2499	277	28.8	3	10.7	1	3.6	14.3	14.3
2500–2999	348	36.2	1	2.9	0	0.0	2.9	2.9
3000–3499	132	13.7	0	0.0	2	15.2	15.2	0.0
3500–3999	15	1.6	0	0.0	0	0.0	0.0	0.0
4000–4499	1	0.1	0	0.0	0	0.0	0.0	0.0
Total	962	100	11	11.3	12	12.5	23.6	18.6

Note: The 2006 data set includes one multiple birth for which sex was recorded as 'indeterminate'. This birth is excluded from Tables 3.23 and 3.24.

Table 3.25
 Gestational Age at Delivery
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Multiple Births

Gestational Age (weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
22–27	41	2.1	5	108.7	11	268.3	347.8	333.3
28–31	117	6.0	4	33.1	5	42.7	74.4	58.8
32–36	695	35.7	13	18.4	4	5.8	24.0	18.5
37–41	1,094	56.2	2	1.8	3	2.7	4.6	3.7
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table 3.26
 Interval in Years Since Last Birth
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Multiple Births

Interval Since Last Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
No previous births	881	45.2	13	14.5	10	11.4	25.7	23.5
1 year or less	26	1.3	1	37.0	1	38.5	74.1	74.1
>1 year to 2 years	239	12.3	3	12.4	2	8.4	20.7	16.6
>2 years to 3 years	274	14.1	4	14.4	5	18.2	32.4	25.4
>3 years to 4 years	155	8.0	1	6.4	1	6.5	12.8	12.8
>4 years to 5 years	116	6.0	2	16.9	0	0.0	16.9	16.9
>5 years to 6 years	97	5.0	0	0.0	2	20.6	20.6	0.0
More than 6 years	154	7.9	0	0.0	2	13.0	13.0	6.5
Not Stated	5	0.3	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table 3.27

Month of Birth

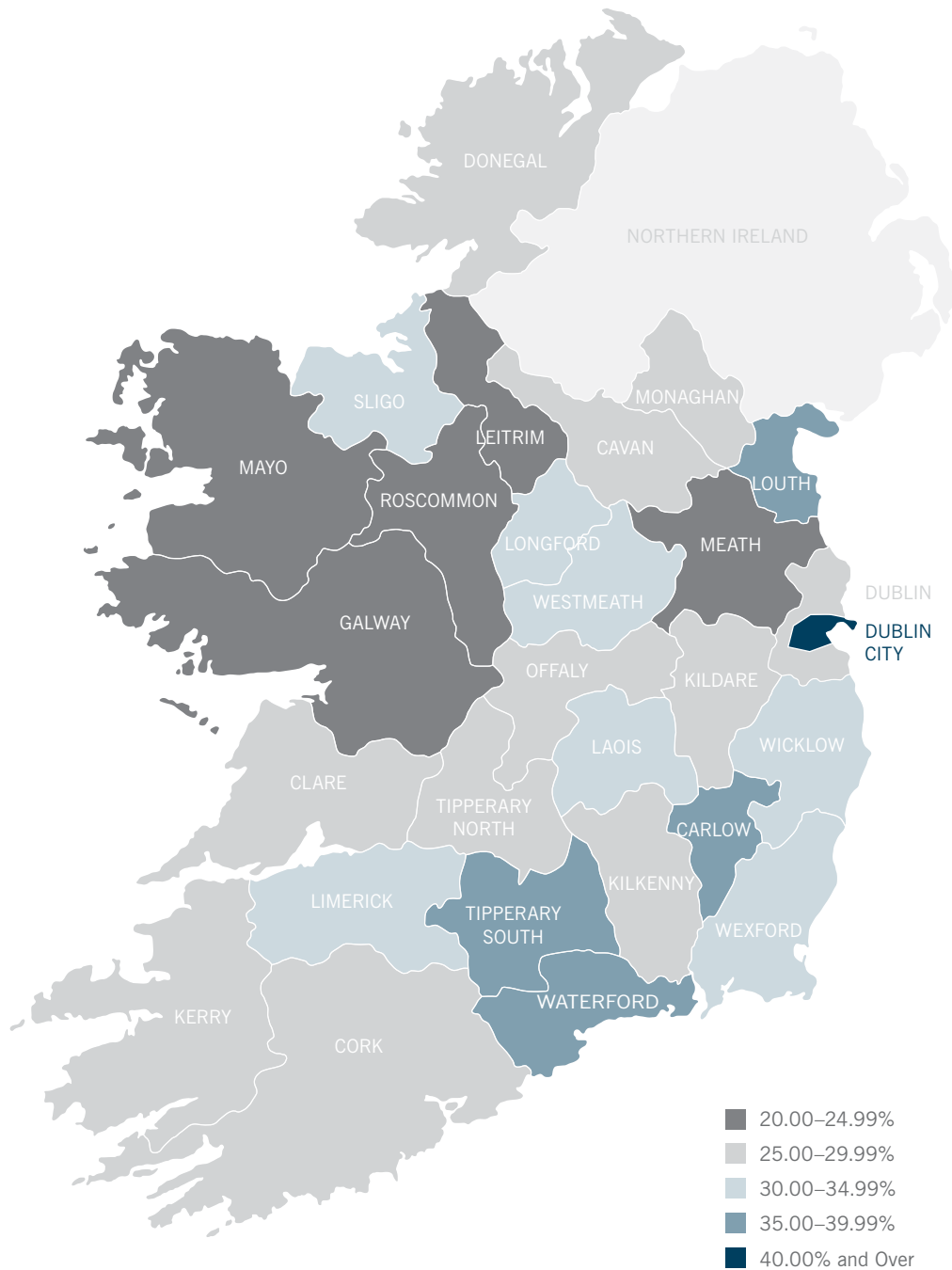
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Month of Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
January	141	7.2	2	14.0	1	7.1	21.0	21.0
February	125	6.4	0	0.0	1	8.0	8.0	8.0
March	189	9.7	2	10.5	1	5.3	15.7	10.5
April	142	7.3	4	27.4	2	14.1	41.1	27.8
May	181	9.3	2	10.9	2	11.0	21.9	21.9
June	195	10.0	4	20.1	0	0.0	20.1	15.2
July	170	8.7	4	23.0	3	17.6	40.2	29.1
August	156	8.0	0	0.0	4	25.6	25.6	13.0
September	148	7.6	1	6.7	3	20.3	26.8	26.8
October	150	7.7	4	26.0	0	0.0	26.0	26.0
November	165	8.5	0	0.0	4	24.2	24.2	24.2
December	185	9.5	1	5.4	2	10.8	16.1	16.1
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Figure 3.10

Percentage of Total Births to Single Mothers by Mother's County of Residence, 2006
 Singleton and Multiple Live Births and Stillbirths



Notes: See Appendix G, Table G18 for data.

Example: Of all births to mothers resident in Carlow, 35.7% were to single mothers.

Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table 3.28
Mother's Nationality
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Multiple Births

Mother's Nationality	Live Births	Per Cent (%) Live Births	Per Cent (%) Live Births by Mother's Marital Status			Stillbirths	Per Cent (%) Stillbirths	Per Cent (%) Stillbirth by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
			Married	Never Married	Other*			Married	Never Married	Other *					
Ireland	1,615	82.9	63.9	18.1	0.9	20	83.3	62.5	20.8	0.0	12.2	20	12.4	24.5	20.9
UK	53	2.7	2.1	0.5	0.2	1	4.2	4.2	0.0	0.0	18.5	0	0.0	18.5	18.5
EU15 (excluding Ireland & UK)	28	1.4	1.0	0.5	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
EU15 to EU25 Accession States	55	2.8	1.2	1.4	0.2	3	12.5	4.2	0.0	8.3	51.7	0	0.0	51.7	35.1
Rest of Europe	21	1.1	1.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Africa	108	5.5	4.3	0.9	0.3	0	0.0	0.0	0.0	0.0	0.0	3	27.8	27.8	18.7
Asia	33	1.7	1.6	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
America	26	1.3	1.1	0.2	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Australia	2	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
New Zealand and Other Oceania	2	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Not Stated	4	0.2	0.1	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Total	1,947	100	76.6	21.8	1.5	24	100	70.8	20.8	8.3	12.2	23	11.8	23.8	19.9

Notes: * Including divorced, married but separated, widowed, not stated.
 See Appendix F for a description of the classification system employed for nationalities.

Table 3.29
Father's Nationality
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Multiple Births

Father's Nationality	Live Births	Per Cent (%) Live Births		Per Cent (%) Live Births by Mother's Marital Status			Stillbirths	Per Cent (%) Stillbirths	Per Cent (%) Stillbirth by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
		Births	Married	Never Married	Other*	Married			Never Married	Other *						
Ireland	1,337	68.7	63.8	4.7	0.2	13	54.2	50.0	4.2	0.0	9.6	13	9.7	19.3	15.6	
UK	50	2.6	2.0	0.4	0.2	0	0.0	0.0	0.0	0.0	0.0	1	20.0	20.0	20.0	
EU15 (excluding Ireland & UK)	20	1.0	1.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
EU15 to EU25 Accession States	25	1.3	0.9	0.4	0.1	1	4.2	4.2	0.0	0.0	38.5	0	0.0	38.5	0.0	
Rest of Europe	18	0.9	0.9	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
Africa	81	4.2	4.1	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	3	37.0	37.0	25.0	
Asia	31	1.6	1.6	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
America	9	0.5	0.5	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
Australia	1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
New Zealand and Other Oceania	1	0.1	0.1	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
Not Stated	35	1.8	1.8	0.0	0.0	4	16.7	16.7	0.0	0.0	102.6	1	28.6	128.2	128.2	
Not Applicable	339	17.4	0.0	16.3	1.1	6	25.0	0.0	16.7	8.3	17.4	5	14.7	31.9	29.1	
Total	1,947	100	76.6	21.8	1.5	24	100	70.8	20.8	8.3	12.2	23	11.8	23.8	19.9	

Notes: * Including divorced, married but separated, widowed, not stated.

See Appendix F for a description of the classification system employed for nationalities.

'Not Applicable' applies to father's nationality only. Where mother's marital status is recorded as 'never married', 'widowed', 'separated' or 'divorced' the GRO does not require father's details to register the birth. This information, therefore, is generally not provided in these circumstances.

Perinatal Care

SECTION

4

Introduction

This section presents a detailed review on aspects of perinatal care for the mother and infant. Part 1 reports on perinatal care for singleton births and Part 2 on multiple births. The following tables outline data for live births, stillbirths and early neonatal deaths, together with their corresponding rates. The perinatal mortality rate and adjusted perinatal mortality rate are also outlined in each table. Tables and figures are presented in some detail for a number of variables, including type of antenatal care, mother's antenatal and postnatal length of stay, method of delivery, mother's immunity to rubella, and type of feeding.

Part 1: Singleton Births

Table 4.1
Type of Antenatal Care
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Type of Antenatal Care	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Hospital/Obstetrician	12,457	19.6	77	6.1	40	3.2	9.3	6.6
General Practitioner Only	197	0.3	2	10.1	1	5.1	15.1	10.1
Hospital and G.P. Combined	50,299	79.1	195	3.9	85	1.7	5.5	4.2
None	139	0.2	8	54.4	2	14.4	68.0	61.6
Midwife Only	378	0.6	0	0.0	0	0.0	0.0	0.0
Unknown	85	0.1	2	23.0	1	11.8	34.5	23.3
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Table 4.2
Mother's Length of Stay in Hospital Prior to Delivery
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Antenatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0–1 Days	57,354	90.5	241	4.2	102	1.8	6.0	4.4
2 Days	3,252	5.1	23	7.0	6	1.8	8.9	5.8
3–5 Days	1,761	2.8	14	7.9	10	5.7	13.5	10.7
6–8 Days	427	0.7	4	9.3	1	2.3	11.6	7.0
9–11 Days	184	0.3	1	5.4	1	5.4	10.8	10.8
12–14 Days	104	0.2	0	0.0	0	0.0	0.0	0.0
More than 2 weeks	269	0.4	0	0.0	8	29.7	29.7	26.1
Not Stated	34	0.1	1	28.6	1	29.4	57.1	57.1
Total	63,385	100	284	4.5	129	2.0	6.5	4.8

Notes: 'Not Stated' includes 28 births where place of birth was recorded as domiciliary but birth was registered by a hospital. For these cases, the mother was not admitted, or was admitted post delivery, under a planned community midwife scheme. Therefore, dates of mother's antenatal length of stay were not applicable. There were 3 births where place of birth was recorded as 'Born Before Arrival'. In these cases, mother's admission date was after the infant's date of birth. Therefore, antenatal length of stay was not applicable. There were 4 births where mother's admission was not stated.

Domiciliary births, of which there were 170 singleton births, are excluded from this table. See Appendix H for detailed analysis.

Table 4.3

Mother's Length of Stay in Hospital After Delivery
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

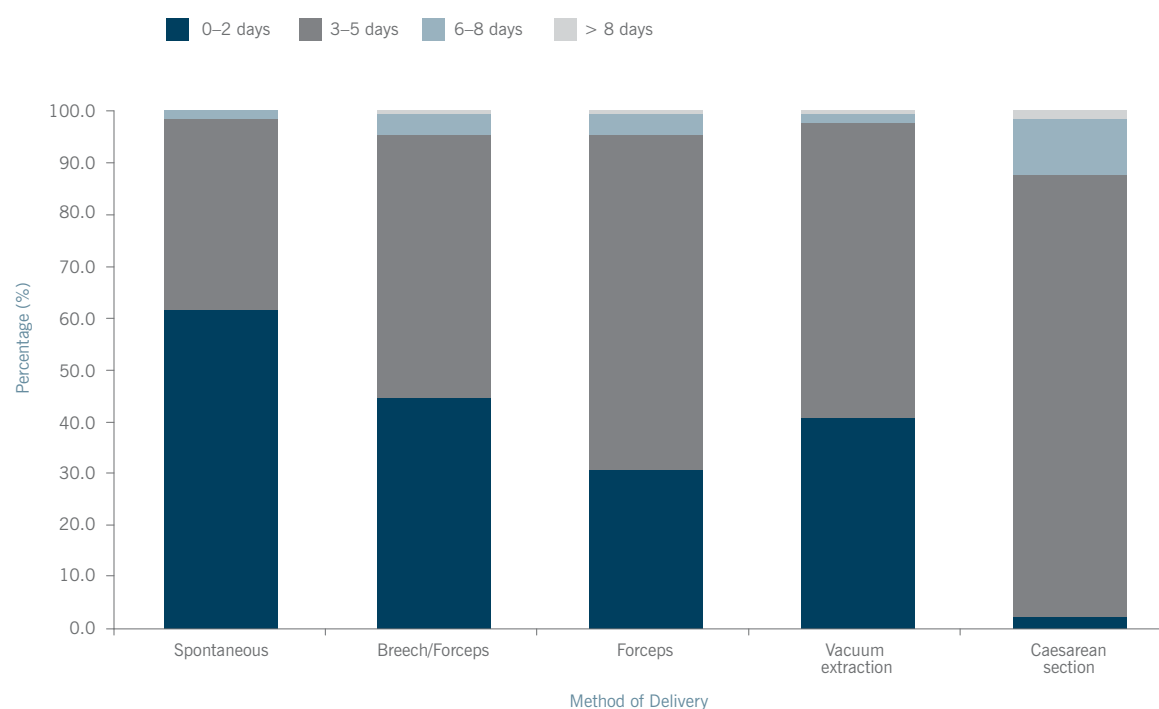
Postnatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0–1 Days	9,695	15.3	181	18.3	48	5.0	23.2	17.6
2 Days	17,808	28.1	62	3.5	28	1.6	5.0	3.5
3–5 Days	33,296	52.5	35	1.1	43	1.3	2.3	1.7
6–8 Days	2,234	3.5	5	2.2	5	2.2	4.5	3.6
9–11 Days	234	0.4	0	0.0	3	12.8	12.8	12.8
12–14 Days	48	0.1	0	0.0	0	0.0	0.0	0.0
More than 2 weeks	35	0.1	0	0.0	0	0.0	0.0	0.0
Not Stated	35	0.1	1	27.8	2	57.1	83.3	83.3
Total	63,385	100	284	4.5	129	2.0	6.5	4.8

Notes: 'Not Stated' includes 29 births where place of birth was recorded as domiciliary but birth was registered by a hospital. For these cases, the mother was not admitted under a planned community midwife scheme. Therefore, dates of mother's length of stay were not applicable. There were 7 births where mother's discharge was not stated.

Domiciliary births, of which there were 170 singleton births, are excluded from this table. See Appendix H for detailed analysis.

Figure 4.1

Mothers Postnatal Length of Stay: Cumulative Percentages by Method of Delivery, 2006
Singleton Births



Note: Data are compiled from Appendix G, Table G9. 'Not Stated' data are not included in the calculation of percentages.

Table 4.4
Method of Delivery
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Method of Delivery	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Spontaneous	38,001	59.8	208	5.4	62	1.6	7.1	5.2
Breech/Forceps	217	0.3	29	117.9	13	59.9	170.7	135.6
Forceps	1,929	3.0	6	3.1	4	2.1	5.2	4.1
Vacuum extraction	7,806	12.3	7	0.9	7	0.9	1.8	0.9
Caesarean section	15,464	24.3	29	1.9	41	2.7	4.5	3.6
Other	131	0.2	5	36.8	2	15.3	51.5	37.3
Not stated	7	0.0	0	0.0	0	0.0	0.0	0.0
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Table 4.5
Advance Hospital Bookings
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Singleton Births

Advance Hospital Bookings	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Booked	62,747	99.0	257	4.1	118	1.9	6.0	4.3
Not Booked	591	0.9	21	34.3	8	13.5	47.4	44.3
Not Stated	47	0.1	6	113.2	3	63.8	169.8	120.0
Total	63,385	100	284	4.5	129	2.0	6.5	4.8

Notes: 'Not Stated' includes 28 births where place of birth was recorded as domiciliary but birth was registered by a hospital. For these cases, mother was not admitted under a planned community midwife scheme. Therefore, hospital bookings were not applicable. Domiciliary births, of which there were 170 singleton births, are excluded from this table. See Appendix H for detailed analysis.

Table 4.6

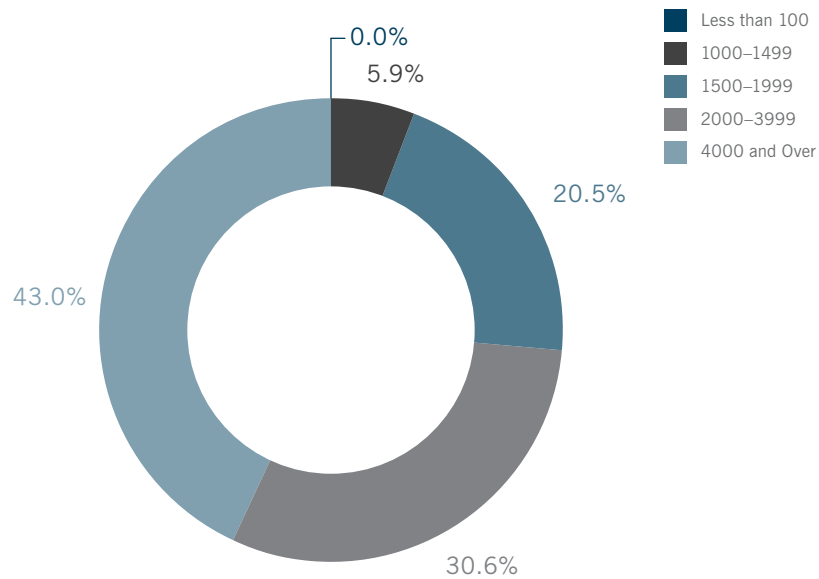
Size of Maternity Unit (number of live births and stillbirths annually)
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Size of Maternity Unit	Number of Hospitals	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Less than 100	3	3	0.0	0	0.0	0	0.0	0.0	0.0
100–499	0	0	0.0	0	0.0	0	0.0	0.0	0.0
500–999	0	0	0.0	0	0.0	0	0.0	0.0	0.0
1000–1499	3	3,866	5.9	19	4.9	10	2.6	7.5	5.9
1500–1999	8	13,419	20.5	65	4.8	22	1.6	6.5	5.0
2000–3999	7	19,980	30.6	91	4.5	38	1.9	6.4	4.9
4000 and Over	4	28,064	43.0	133	4.7	82	2.9	7.6	5.5
Total	25	65,332	100	308	4.7	152	2.3	7.0	5.3

Note: This table includes singleton and multiple births but excludes domiciliary births of which there were 170 singleton births.

Figure 4.2

Percentage of Live Births by Size of Maternity Unit, 2006



Note: See Table 4.6 for data. The size of the unit refers to the number of live births and stillbirths occurring in 2006.

Table 4.7
Inter-Hospital Transfer of Infants
Live Births, Early Neonatal Deaths and Mortality Rate, 2006
Singleton Births

Infant Transfer	Live Births	Per Cent (%) Live Births	Early Neonatal Deaths	Early Neonatal Mortality Rate
Transferred	398	0.6	4	10.1
Not Transferred	62,911	99.3	125	2.0
Not Stated	76	0.1	0	0.0
Total	63,385	100	129	2.0

Notes: 'Not Stated' includes 28 births where place of birth was recorded as domiciliary but birth was registered by a hospital. For these cases, mother was not admitted under a planned community midwife scheme. Therefore, transfer indicators were not applicable. Domiciliary births, of which there were 170 singleton births, are excluded from this table. See Appendix H for detailed analysis.

Table 4.8
Rubella: Immune Status of Mother, Numbers and Percentages, 2006
Singleton Births

Rubella	Number (Live Births and Stillbirths)	Per Cent (%)
Immune	58,895	92.3
Not Immune	1,960	3.1
Unknown	2,984	4.7
Total	63,839	100.0

Table 4.9

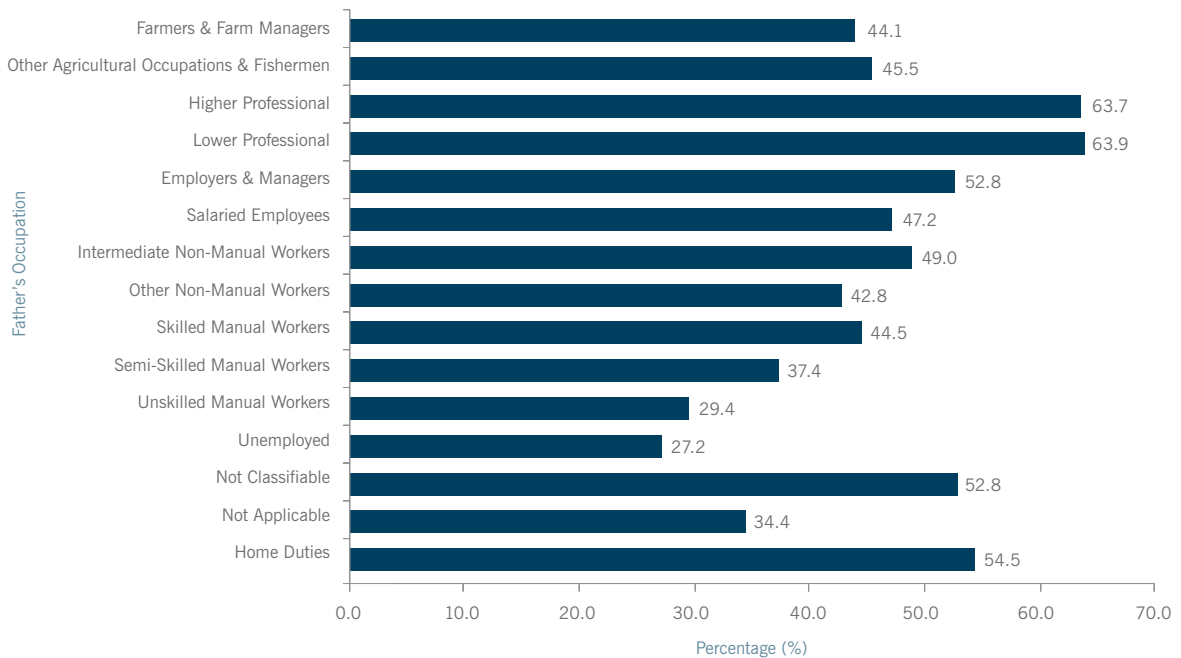
Age of Mother by Infant's Type of Feeding, Numbers and Percentages, 2006
Singleton Births

Age of Mother Frequency Row Per Cent Col. Per Cent	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Under 15 Years	9	2	0	0	11
	81.8	18.2	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0
15–19 Years	1,751	483	59	4	2,297
	76.2	21.0	2.6	0.2	100.0
	5.4	1.7	2.1	3.9	3.6
20–24 Years	4,977	2,976	282	13	8,248
	60.3	36.1	3.4	0.2	100.0
	15.4	10.5	10.2	12.6	13.0
25–29 Years	7,799	6,303	639	27	14,768
	52.8	42.7	4.3	0.2	100.0
	24.1	22.3	23.2	26.2	23.2
30–34 Years	10,258	10,338	1,029	36	21,661
	47.4	47.7	4.8	0.2	100.0
	31.7	36.5	37.3	35.0	34.1
35–39 Years	6,359	6,837	619	20	13,835
	46.0	49.4	4.5	0.1	100.0
	19.6	24.1	22.5	19.4	21.8
40–44 Years	1,164	1,318	123	2	2,607
	44.6	50.6	4.7	0.1	100.0
	3.6	4.7	4.5	1.9	4.1
45 Years and Over	33	52	5	0	90
	36.7	57.8	5.6	0.0	100.0
	0.1	0.2	0.2	0.0	0.1
Not Stated	21	16	0	1	38
	55.3	42.1	0.0	2.6	100.0
	0.1	0.1	0.0	1.0	0.1
Total	32,371	28,325	2,756	103	63,555
	50.9	44.6	4.3	0.2	100.0
	100.0	100.0	100.0	100.0	100.0

Notes: See Appendix G for an explanation of the table format.

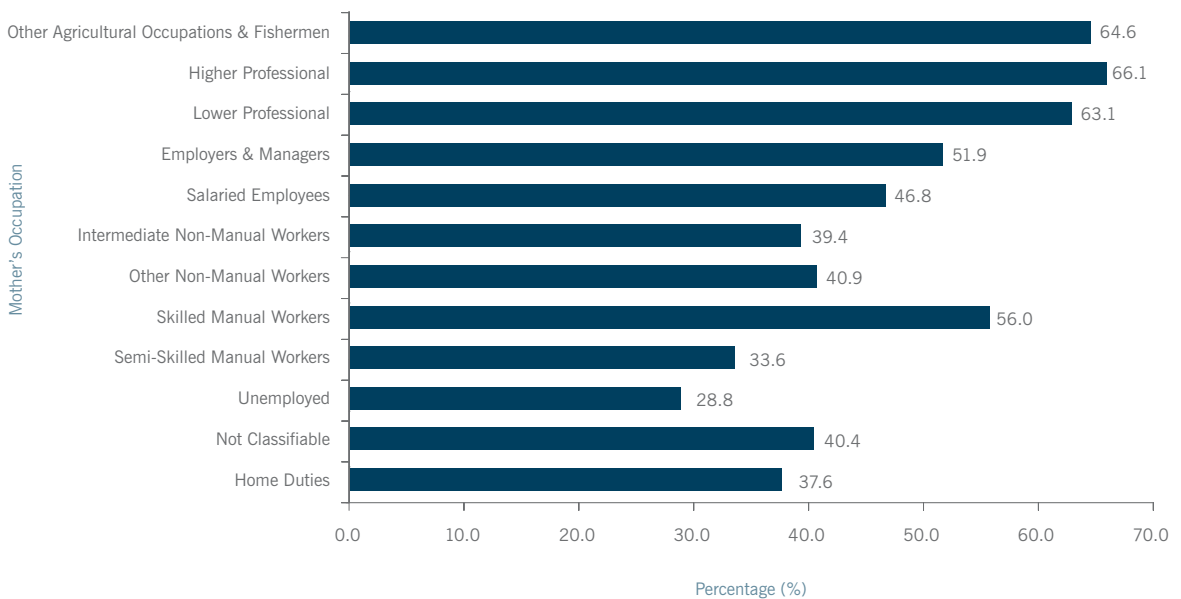
'Not Stated' contains 84 early neonatal deaths for which type of feeding was not stated.

Figure 4.3
Percentage of Mothers Breastfeeding by Father's Occupation, 2006
Singleton Births



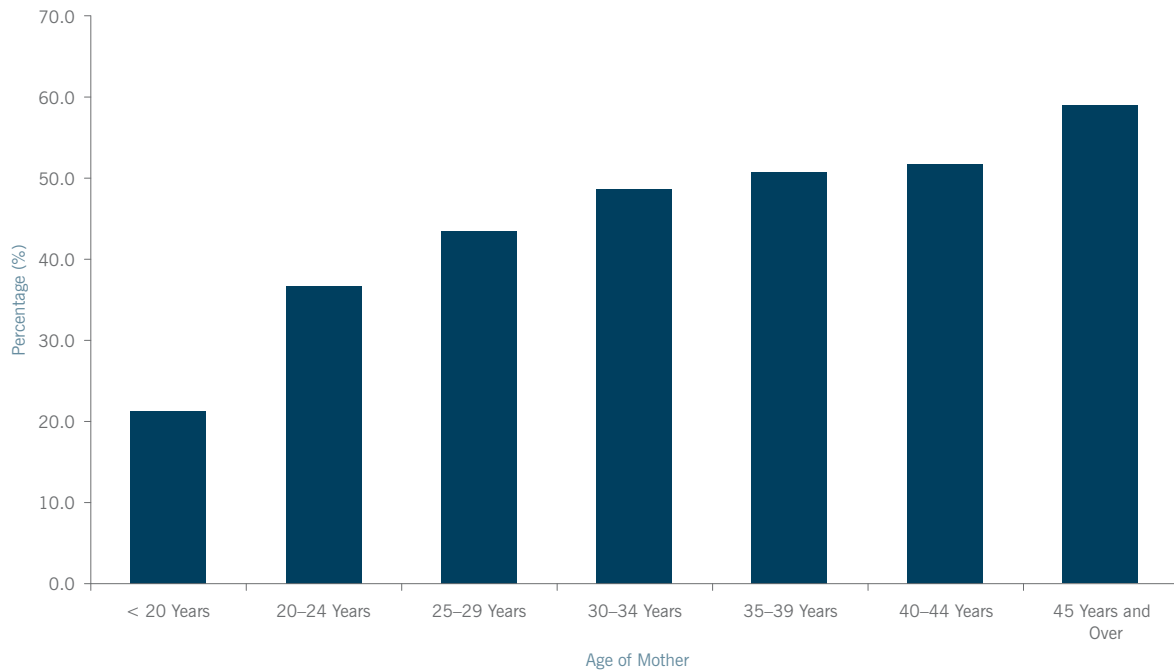
Notes: Data are compiled from Appendix G, Table G15. 'Not Stated' data are not included in the calculation of percentages. Categories where percentages would be based on <100 live births are not included in this graph.

Figure 4.4
Percentage of Mothers Breastfeeding by Mother's Occupation, 2006
Singleton Births



Notes: Data are compiled from Appendix G, Table G16. 'Not Stated' data are not included on the calculation of percentages. Categories where percentages would be based on <100 live births are not included in this graph.

Figure 4.5
Percentage of Mothers Breastfeeding by Age of Mother, 2006
Singleton Births



Note: See Table 4.9 for Data. 'Not Stated' data are not included in the calculation of percentages.

Part 2: Multiple Births

Table 4.10

Type of Antenatal Care

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Type of Antenatal Care	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Hospital/Obstetrician	653	33.5	7	10.6	10	15.3	25.8	19.8
General Practitioner Only	5	0.3	0	0.0	0	0.0	0.0	0.0
Hospital and G.P. Combined	1,277	65.6	17	13.1	13	10.2	23.2	20.2
None	2	0.1	0	0.0	0	0.0	0.0	0.0
Unknown	10	0.5	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table 4.11

Mother's Length of Stay in Hospital Prior to Delivery

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

Multiple Births

Antenatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0-1 Days	1,444	74.2	19	13.0	15	10.4	23.2	19.9
2 Days	145	7.4	2	13.6	4	27.6	40.8	27.6
3-5 Days	153	7.9	2	12.9	2	13.1	25.8	25.8
6-8 Days	88	4.5	0	0.0	0	0.0	0.0	0.0
9-11 Days	44	2.3	0	0.0	1	22.7	22.7	22.7
12-14 Days	12	0.6	1	76.9	0	0.0	76.9	76.9
More than 2 weeks	59	3.0	0	0.0	1	16.9	16.9	0.0
Not Stated	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Note: There were no domiciliary multiple births.

Table 4.12

Mother's Length of Stay in Hospital After Delivery

Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006

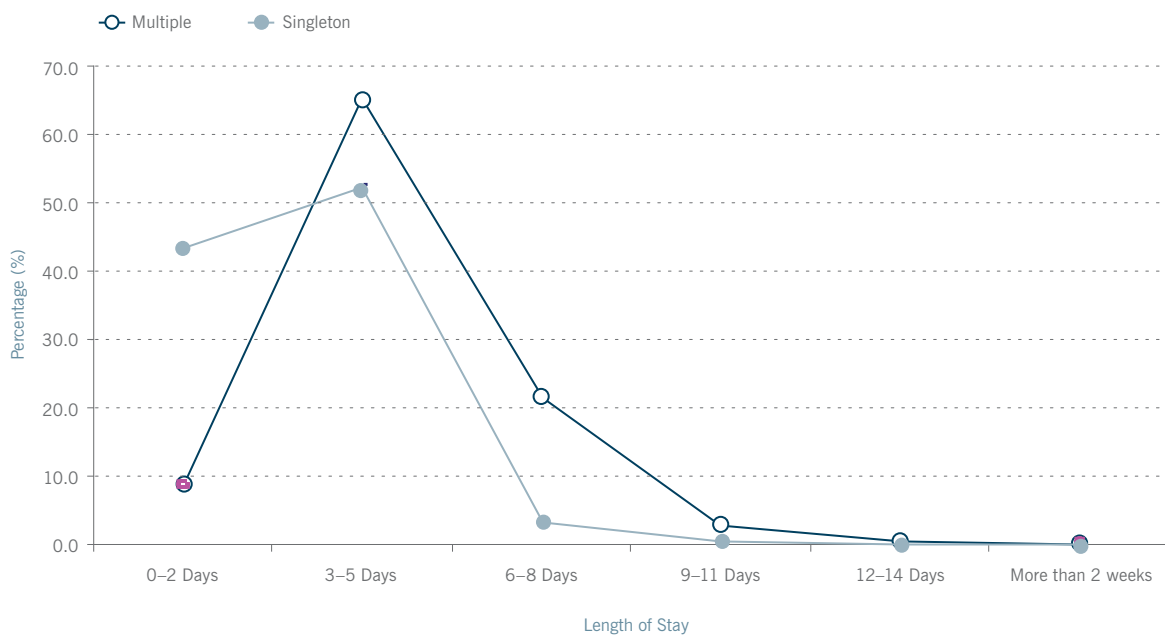
Multiple Births

Postnatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0-1 Days	34	1.7	3	81.1	3	88.2	162.2	162.2
2 Days	131	6.7	6	43.8	7	53.4	94.9	88.2
3-5 Days	1,280	65.7	10	7.8	8	6.3	14.0	10.9
6-8 Days	425	21.8	4	9.3	5	11.8	21.0	14.1
9-11 Days	60	3.1	0	0.0	0	0.0	0.0	0.0
12-14 Days	14	0.7	0	0.0	0	0.0	0.0	0.0
More than 2 weeks	3	0.2	1	250.0	0	0.0	250.0	250.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Note: There were no domiciliary multiple births.

Figure 4.6

Percentage Distribution of Births by Mother's Postnatal Length of Stay in Days, 2006



Notes: Includes stillbirths. See Tables 4.3 and 4.12 for data.

'Not Stated' data are not included in the calculation of percentages.

Table 4.13
Method of Delivery
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Multiple Births

Method of Delivery	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Spontaneous	503	25.8	10	19.5	9	17.9	37.0	33.3
Breech/Forceps	76	3.9	2	25.6	3	39.5	64.1	64.1
Forceps	48	2.5	0	0.0	1	20.8	20.8	20.8
Vacuum extraction	146	7.5	0	0.0	1	6.8	6.8	0.0
Caesarean section	1,164	59.8	12	10.2	8	6.9	17.0	12.8
Other	10	0.5	0	0.0	1	100.0	100.0	100.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table 4.14
Advance Hospital Bookings
Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
Multiple Births

Advance Hospital Bookings	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Booked	1,886	96.9	24	12.6	20	10.6	23.0	18.9
Not Booked	59	3.0	0	0.0	3	50.8	50.8	50.8
Not Stated	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Note: There were no domiciliary multiple births.

Table 4.15
Inter-Hospital Transfer of Infants
Live Births, Early Neonatal Deaths and Mortality Rate, 2006
Multiple Births

Infant Transfer	Live Births	Per Cent (%) Live Births	Early Neonatal Deaths	Early Neonatal Mortality Rate
Transferred	77	4.0	1	13.0
Not Transferred	1,861	95.6	22	11.8
Not Stated	9	0.5	0	0.0
Total	1,947	100	23	11.8

Note: There were no domiciliary multiple births.

Table 4.16

Rubella: Immune Status of Mother, Numbers and Percentages, 2006
Multiple Births

Rubella	Number (Live Births and Stillbirths)	Per Cent (%)
Immune	1,759	89.2
Not Immune	57	2.9
Unknown	155	7.9
Total	1,971	100.0

Table 4.17

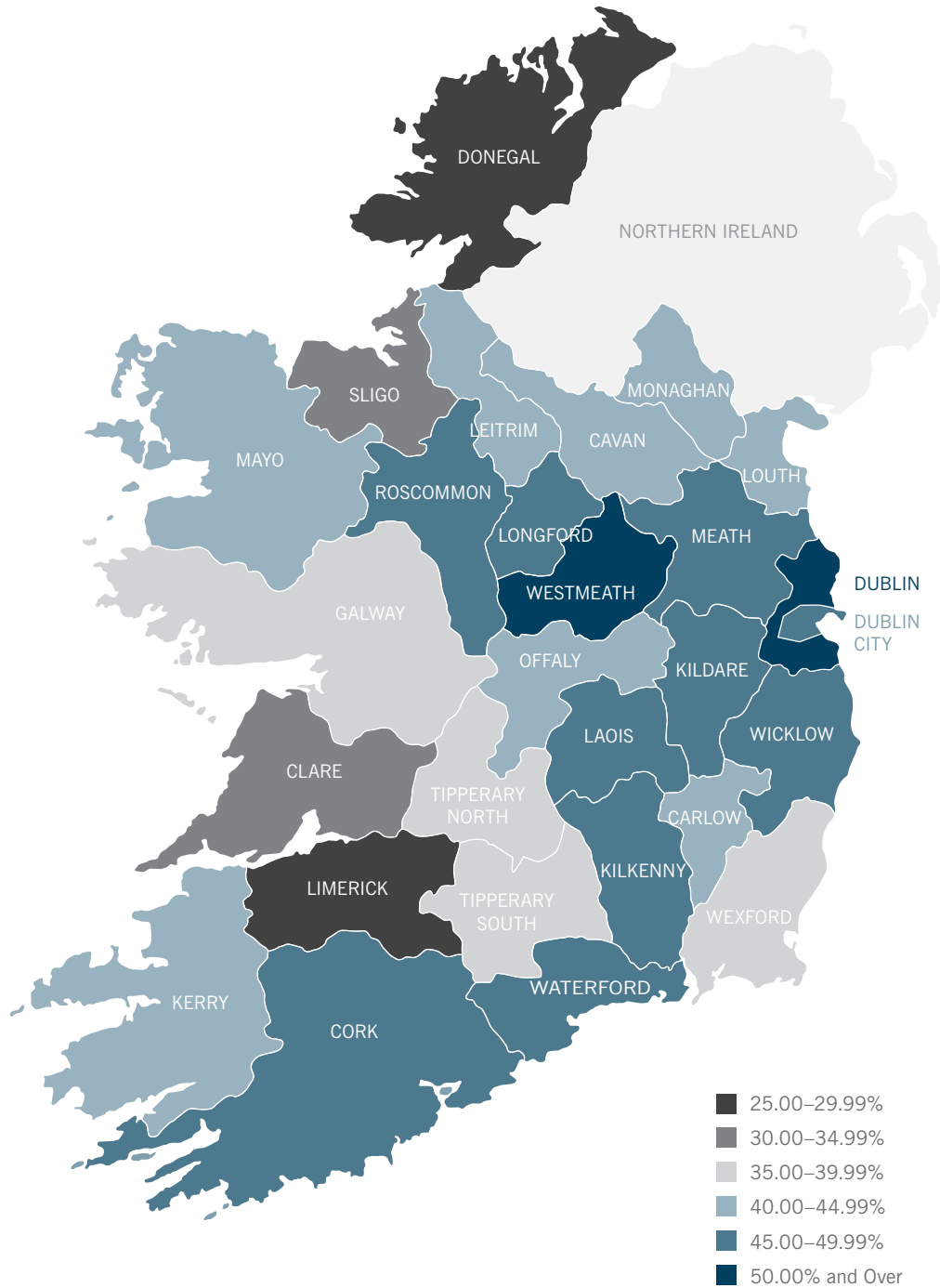
Age of Mother by Infant's Type of Feeding, Numbers and Percentages, 2006
Multiple Births

Age of Mother Frequency Row Per Cent Col. Per Cent	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
15–19 Years	28	5	2	0	35
	80.0	14.3	5.7	0.0	100.0
	2.5	0.9	0.9	0.0	1.8
20–24 Years	84	47	16	3	150
	56.0	31.3	10.7	2.0	100.0
	7.5	8.0	7.0	18.8	7.7
25–29 Years	233	90	31	2	356
	65.4	25.3	8.7	0.6	100.0
	20.8	15.4	13.7	12.5	18.3
30–34 Years	410	227	90	8	735
	55.8	30.9	12.2	1.1	100.0
	36.7	38.7	39.6	50.0	37.8
35–39 Years	298	163	75	3	539
	55.3	30.2	13.9	0.6	100.0
	26.7	27.8	33.0	18.8	27.7
40–44 Years	65	46	9	0	120
	54.2	38.3	7.5	0.0	100.0
	5.8	7.8	4.0	0.0	6.2
45 Years and Over	0	8	4	0	12
	0.0	66.7	33.3	0.0	100.0
	0.0	1.4	1.8	0.0	0.6
Total	1,118	586	227	16	1,947
	57.4	30.1	11.7	0.8	100.0
	100.0	100.0	100.0	100.0	100.0

Notes: See Appendix G for an explanation of the table format.

'Not Stated' contains 16 early neonatal deaths for which type of feeding was not stated.

Figure 4.7
 Percentage Distribution of Breastfed Infants by Mother's County of Residence, 2006
 Singleton and Multiple Live Births



Note: See Appendix G, Table G19 for data.
 Example: Of all live births to mothers resident in Galway, 39.5% were breastfed.

Perinatal Outcomes

SECTION

5

Introduction

This section presents a detailed review on aspects of perinatal outcomes for the infant. Part 1 reports on perinatal outcomes for singleton births and Part 2 on multiple births. Cause of death is examined in greater detail according to the guidelines set out by the WHO in the Tenth Revision of the ICD. The following tables outline data for live births, antepartum and intrapartum stillbirths, and early neonatal deaths, together with their corresponding rates. Mortality numbers and rates are presented by birthweight and cause of death. Age at death for early neonatal deaths and whether a post-mortem examination was undertaken are also outlined.

The NPRS data set collects morbidity and mortality data on mothers giving birth and their babies. The NPRS coders are trained in ICD-10 coding practices, with particular focus on chapters *Pregnancy, childbirth and the puerperium*, *Certain conditions originating in the perinatal period*, and *Congenital malformation, deformations and chromosomal abnormalities* (Chapters XV – XVII). The Tenth Revision of the International Classification of Diseases came into effect for births on 1 January 2005 onwards. See Appendix D for a detailed description on cause of death classification and coding rules applied by coders in the NPRS Unit at the ESRI.

Part 1: Singleton Births

Table 5.1
Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and Mortality Rates by Birthweight, 2006
Singleton Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Antepartum Stillbirths	Intrapartum Stillbirths	Not Stated	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500–749	69	0.1	31	4	4	361.1	30	434.8	638.9	610.0
750–999	95	0.1	30	1	2	257.8	12	126.3	351.6	302.5
1000–1249	112	0.2	20	3	1	176.5	12	107.1	264.7	200.0
1250–1499	138	0.2	15	0	2	109.7	11	79.7	180.6	86.3
1500–1999	458	0.7	32	2	4	76.6	18	39.3	112.9	85.2
2000–2499	1,504	2.4	24	0	3	17.6	16	10.6	28.1	15.9
2500–2999	6,881	10.8	26	5	3	4.9	11	1.6	6.5	4.5
3000–3499	20,777	32.7	34	2	3	1.9	8	0.4	2.3	1.8
3500–3999	22,596	35.6	15	1	2	0.8	9	0.4	1.2	1.1
4000–4499	9,040	14.2	8	1	0	1.0	2	0.2	1.2	1.1
4500 and Over	1,879	3.0	4	1	0	2.7	0	0.0	2.7	2.1
Not Stated	6	0.0	1	0	0	142.9	0	0.0	142.9	142.9
Total	63,555	100	240	20	24	4.4	129	2.0	6.5	4.8

Table 5.2

Stillbirths, Early Neonatal Deaths and Mortality Rates by Cause of Death, 2006
Singleton Births

Cause of Death	ICD-10 Code	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Total Deaths	Perinatal Mortality Rate
Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery	P00-P04	87	1.3	7	0.1	94	1.5
Foetus and newborn affected by maternal conditions that may be unrelated to present pregnancy	P00.0-P00.9	7	0.1	0	0.0	7	0.1
Foetus and newborn affected by complications of placenta, cord and membranes	P02.0-P02.9	77	1.2	3	0.0	80	1.3
Foetus and newborn affected by other complications of labour and delivery	P03.0-P03.9	1	0.0	4	0.1	5	0.1
Disorders related to length of gestation and foetal growth	P05-P08	19	0.3	28	0.4	47	0.7
Slow foetal growth and foetal malnutrition	P05.0-P05.9	7	0.1	0	0.0	7	0.1
Disorders related to short gestation and low birthweight, not elsewhere classified	P07.0-P07.3	12	0.2	28	0.4	40	0.6
Respiratory and cardiovascular disorders specific to the perinatal period	P20-P29	32	0.5	17	0.3	49	0.8
Intrauterine hypoxia	P20.0-P20.9	27	0.4	2	0.0	29	0.5
Respiratory distress of newborn	P22.0-P22.9	0	0.0	4	0.1	4	0.1
Other respiratory conditions originating in the perinatal period	P28.0-P28.9	0	0.0	4	0.1	4	0.1
Cardiovascular disorders originating in the perinatal period	P29.0-P29.9	2	0.0	3	0.0	5	0.1
Infections specific to the perinatal period	P35-P39	6	0.1	0	0.0	6	0.1
Other infections specific to the perinatal period	P39.0-P39.9	5	0.1	0	0.0	5	0.1
Haemorrhagic and haematological disorders of foetus and newborn	P50-P61	2	0.0	4	0.1	6	0.1
Transitory endocrine and metabolic disorders specific to foetus and newborn	P70-P74	5	0.1	0	0.0	5	0.1
Conditions involving the integument and temperature regulation of foetus and newborn	P80-P83	9	0.1	4	0.1	13	0.2
Other disorders originating in the perinatal period	P90-P96	77	1.2	9	0.1	86	1.3
Foetal death of unspecified cause, Condition originating in the perinatal period, unspecified	P95, P96.9	77	1.2	6	0.1	83	1.3

Table 5.2 (continued)

Cause of Death	ICD-10 Code	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Total Deaths	Perinatal Mortality Rate
Congenital malformations of the nervous system	Q00–Q07	11	0.2	18	0.3	29	0.5
Anencephaly and similar malformations	Q00.0–Q00.2	9	0.1	14	0.2	23	0.4
Congenital malformations of the circulatory system	Q20–Q28	6	0.1	3	0.0	9	0.1
Other congenital malformations of heart	Q24.0–Q24.9	4	0.1	1	0.0	5	0.1
Congenital malformations of the respiratory system	Q30–Q34	1	0.0	3	0.0	4	0.1
Other congenital malformations of the digestive system	Q38–Q45	3	0.0	0	0.0	3	0.0
Congenital malformations of the urinary system	Q60–Q64	2	0.0	9	0.1	11	0.2
Renal agenesis and other reduction defects of kidney	Q60.0–Q60.6	2	0.0	5	0.1	7	0.1
Congenital malformations and deformations of the musculoskeletal system	Q65–Q79	4	0.1	6	0.1	10	0.2
Osteochondrodysplasia with defects of growth of tubular bones and spine	Q77.0–Q77.9	1	0.0	3	0.0	4	0.1
Congenital malformations of musculoskeletal system, not elsewhere classified	Q79.0–Q79.9	1	0.0	3	0.0	4	0.1
Other congenital malformations	Q80–Q89	6	0.1	6	0.1	12	0.2
Other congenital malformations, not elsewhere classified	Q89.0–Q89.9	6	0.1	5	0.1	11	0.2
Chromosomal abnormalities, not elsewhere classified	Q90–Q99	14	0.2	15	0.2	29	0.5
Edward's syndrome and Patau's syndrome	Q91.0–Q91.7	8	0.1	13	0.2	21	0.3
Total	–	284	4.4	129	2.0	413	6.5

Table 5.3
Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2006
Singleton Births

Cause of Death	ICD-10 Code	Birthweight (grams)												Total	
		500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and Over	Not Stated		
Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery	P00-P04	Number	11	15	4	5	16	9	12	12	7	2	1	0	94
		Rate	101.9	117.2	29.4	32.3	32.3	5.9	5.9	1.7	0.6	0.2	0.5	0.0	1.5
Disorders related to length of gestation and foetal growth	P05-P08	Number	28	8	6	0	3	1	0	0	0	0	0	1	47
		Rate	259.3	62.5	44.1	0.0	6.0	0.7	0.0	0.0	0.0	0.0	0.0	142.9	0.7
Respiratory and cardiovascular disorders specific to the perinatal period	P20-P29	Number	6	4	6	5	6	6	4	3	5	3	1	0	49
		Rate	55.6	31.3	44.1	32.3	12.1	3.9	0.6	0.6	0.1	0.2	0.3	0.5	0.0
Infections specific to the perinatal period	P35-P39	Number	2	0	0	1	0	0	1	2	0	0	0	0	6
		Rate	18.5	0.0	0.0	6.5	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Haemorrhagic and haematological disorders of foetus and newborn	P50-P61	Number	1	1	0	1	0	0	1	1	1	0	0	0	6
		Rate	9.3	7.8	0.0	6.5	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Transitory endocrine and metabolic disorders specific to foetus and newborn	P70-P74	Number	0	0	0	0	1	0	2	2	0	0	0	0	5
		Rate	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0
Conditions involving the integument and temperature regulation of foetus and newborn	P80-P83	Number	3	0	2	0	5	2	1	0	0	0	0	0	13
		Rate	27.8	0.0	14.7	0.0	10.1	1.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Other disorders originating in the perinatal period	P90.0-P94.9, P96.0-P96.8	Number	0	0	0	0	1	1	0	0	1	0	0	0	3
		Rate	0.0	0.0	0.0	0.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Foetal death of unspecified cause, Condition originating in the perinatal period, unspecified	P95, P96.9	Number	10	8	7	0	9	5	10	17	10	5	2	0	83
		Rate	92.6	62.5	51.5	0.0	18.1	3.3	1.4	1.4	0.8	0.6	1.1	0.0	1.3
Congenital malformations of the nervous system	Q00-Q07	Number	1	0	4	4	3	5	9	2	1	0	0	0	29
		Rate	9.3	0.0	29.4	25.8	6.0	3.3	1.3	1.3	0.1	0.0	0.0	0.0	0.0

Table 5.3 (continued)

Cause of Death	ICD-10 Code	Birthweight (grams)											Total			
		500–749	750–999	1000–1249	1250–1499	1500–1999	2000–2499	2500–2999	3000–3499	3500–3999	4000–4499	4500 and Over		Not Stated		
Congenital malformations of the circulatory system	Q20–Q28	Number	1	1	1	0	1	1	1	1	3	0	0	0	0	9
		Rate	9.3	7.8	7.4	0.0	2.0	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Congenital malformations of the respiratory system	Q30–Q34	Number	1	1	0	0	0	1	0	0	0	1	0	0	0	4
		Rate	9.3	7.8	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other congenital malformations of the digestive system	Q38–Q45	Number	0	0	0	0	1	1	0	0	0	0	0	0	1	3
		Rate	0.0	0.0	0.0	0.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
Congenital malformations of the urinary system	Q60–Q64	Number	1	1	1	1	3	2	1	1	1	0	0	0	0	11
		Rate	9.3	7.8	7.4	6.5	6.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Congenital malformations and deformations of the musculoskeletal system	Q65–Q79	Number	0	1	1	2	1	3	0	0	0	0	0	0	0	10
		Rate	0.0	7.8	7.4	12.9	2.0	2.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Other congenital malformations	Q80–Q89	Number	0	0	2	2	1	2	3	0	0	1	0	0	0	12
		Rate	0.0	0.0	14.7	12.9	2.0	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chromosomal abnormalities, not elsewhere classified	Q90–Q99	Number	4	5	2	7	5	4	0	0	2	0	0	0	0	29
		Rate	37.0	39.1	14.7	45.2	10.1	2.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
All Causes of Perinatal Mortality	–	Number	69	45	36	28	56	43	45	47	27	11	5	1	413	
		Rate	638.9	351.6	264.7	180.6	112.9	28.1	6.5	2.3	1.2	2.7	142.9	6.5		

Table 5.4
Age at Death
Early Neonatal Deaths, 2006
Singleton Births

Time	Frequency	Per Cent (%)
Completed Hours		
<1	32	24.8
1	19	14.7
2	10	7.8
3	5	3.9
4	4	3.1
5	5	3.9
6	2	1.6
7	1	0.8
8	3	2.3
9	2	1.6
10	1	0.8
12	1	0.8
14	3	2.3
20	1	0.8
22	1	0.8
Total under 1 Day	90	69.8
Completed Days		
1	11	8.5
2	11	8.5
3	5	3.9
4	6	4.7
5	3	2.3
6	1	0.8
Total under 1 Week	37	28.7
Unknown	2	1.6
Total	129	100

Table 5.5
Percentage Distribution of Live Births by
Infant's Length of Stay in Hospital, 2006
Singleton Births

Infant's Length of Stay (Days)	Live Births	Per Cent (%) Live Births
0-2	26,958	42.6
3-5	32,158	50.8
6-10	2,724	4.3
11-28	964	1.5
29 or more	414	0.7
Not Stated	38	0.1
Total	63,256	100

Notes: This table does not include domiciliary births and early neonatal deaths.

'Not stated' includes 29 births where place of birth was recorded as domiciliary but birth was registered by a hospital. In these cases, the infant was not admitted under a planned community midwife scheme. Therefore, infant's length of stay was not applicable.

Table 5.6
 Percentage of Stillbirths and Early Neonatal Deaths undergoing Post-Mortem Examinations, 2006
 Singleton Births

Post-Mortem Frequency Row Per Cent Col. Per Cent	Type of Death		
	Early Neonatal Deaths	Stillbirths	Total
Post-Mortem	36	139	175
	20.6	79.4	100.0
	27.9	48.9	42.4
No Post-Mortem	91	143	234
	38.9	61.1	100.0
	70.5	50.4	56.7
Not Stated	2	2	4
	50.0	50.0	100.0
	1.6	0.7	1.0
Total	129	284	413
	31.2	68.8	100.0
	100.0	100.0	100.0

Note: See Appendix G for an explanation of the table format.

Part 2: Multiple Births

Table 5.7

Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and Mortality Rates by Birthweight, 2006
Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Antepartum Stillbirths	Intrapartum Stillbirths	Not Stated	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	20	1.0	4	1	0	200.0	8	400.0	520.0	520.0
750-999	29	1.5	1	0	0	33.3	4	137.9	166.7	107.1
1000-1249	32	1.6	1	0	0	30.3	3	93.8	121.2	121.2
1250-1499	69	3.5	5	1	0	80.0	1	14.5	93.3	68.5
1500-1999	216	11.1	4	1	0	22.6	1	4.6	27.1	27.1
2000-2499	537	27.6	5	0	0	9.2	3	5.6	14.8	11.1
2500-2999	714	36.7	1	0	0	1.4	0	0.0	1.4	1.4
3000-3499	279	14.3	0	0	0	0.0	3	10.8	10.8	3.6
3500-3999	49	2.5	0	0	0	0.0	0	0.0	0.0	0.0
4000-4499	2	0.1	0	0	0	0.0	0	0.0	0.0	0.0
Total	1,947	100	21	3	0	12.2	23	11.8	23.8	19.9

Table 5.8
Stillbirths, Early Neonatal Deaths and Mortality Rates by Cause of Death, 2006
Multiple Births

Cause of Death	ICD-10 Code	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Total Deaths	Perinatal Mortality Rate
Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery	P00-P04	10	5.1	1	0.5	11	5.6
Disorders related to length of gestation and foetal growth	P05-P08	7	3.6	7	3.6	14	7.1
Respiratory and cardiovascular disorders specific to the perinatal period	P20-P29	3	1.5	4	2.1	7	3.6
Haemorrhagic and haematological disorders of foetus and newborn	P50-P61	0	0.0	2	1.0	2	1.0
Other disorders originating in the perinatal period	P90-P96	3	1.5	2	1.0	5	2.5
Congenital malformations of the nervous system	Q00-Q07	0	0.0	1	0.5	1	0.5
Other congenital malformations of the digestive system	Q38-Q45	0	0.0	1	0.5	1	0.5
Other congenital malformations	Q80-Q89	1	0.5	4	2.1	5	2.5
Chromosomal abnormalities, not elsewhere classified	Q90-Q99	0	0.0	1	0.5	1	0.5
Total	–	24	12.2	23	11.8	47	23.8

Table 5.9
Numbers of Perinatal Deaths by Birthweight and Cause of Death, 2006
Multiple Births

Cause of Death	ICD-10 Code	Birthweight (grams)								Total
		500–749	750–999	1000–1249	1250–1499	1500–1999	2000–2499	2500–2999	3000–3499	
Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery	P00–P04	1	1	0	1	3	5	0	0	11
Disorders related to length of gestation and foetal growth	P05–P08	9	2	1	2	0	0	0	0	14
Respiratory and cardiovascular disorders specific to the perinatal period	P20–P29	3	0	0	1	2	0	0	1	7
Haemorrhagic and haematological disorders of foetus and newborn	P50–61	0	0	2	0	0	0	0	0	2
Other disorders originating in the perinatal period	P90–P96	0	0	1	1	1	1	1	0	5
Congenital malformations of the nervous system	Q00–Q07	0	1	0	0	0	0	0	0	1
Other congenital malformations of the digestive system	Q38–Q45	0	1	0	0	0	0	0	0	1
Other congenital malformations	Q80–Q89	0	0	0	1	0	2	0	2	5
Chromosomal abnormalities, not elsewhere classified	Q90–Q99	0	0	0	1	0	0	0	0	1
Total	–	13	5	4	7	6	8	1	3	47

Table 5.10
Age at Death
Early Neonatal Deaths, 2006
Multiple Births

Time	Frequency	Per Cent (%)
Completed Hours		
<1	7	30.4
1	2	8.7
2	1	4.3
5	1	4.3
9	1	4.3
12	1	4.3
16	1	4.3
17	1	4.3
Total under 1 Day	15	65.2
Completed Days		
1	1	4.3
3	4	17.4
4	1	4.3
6	1	4.3
Total under 1 Week	7	30.4
Unknown	1	4.3
Total	23	100

Table 5.11
Percentage Distribution of Live Births by
Infant's Length of Stay in Hospital, 2006
Multiple Births

Infant's Length of Stay (Days)	Live Births	Per Cent (%) Live Births
0-2	105	5.5
3-5	950	49.4
6-10	383	19.9
11-28	365	19.0
29 or more	120	6.2
Not Stated	1	0.1
Total	1,924	100

Notes: There were no domiciliary multiple births.
Early neonatal deaths are not included in this table.

Table 5.12
Percentage of Stillbirths and Early Neonatal Deaths undergoing Post-Mortem Examinations, 2006
Multiple Births

Post-Mortem Frequency Row Per Cent Col. Per Cent	Type of Death		
	Early Neonatal Deaths	Stillbirths	Total
Post-Mortem	4	12	16
	25.0	75.0	100.0
	17.4	50.0	34.0
No Post-Mortem	18	12	30
	60.0	40.0	100.0
	78.3	50.0	63.8
Not Stated	1	0	1
	100.0	0.0	100.0
	4.3	0.0	2.1
Total	23	24	47
	48.9	51.1	100.0
	100.0	100.0	100.0

Note: See Appendix G for an explanation of the table format.



APPENDICES

Appendix A

Definitions

This section collates the definitions of the terms used in the analyses for this report.

OUTCOMES AND RATES¹⁰

Birth Rate: The Birth Rate or Crude Birth Rate is the ratio of total live births to total population over a specified period of time. The birth rate is often expressed as the number of live births per 1,000 members of the population in a particular time period (for example year).

Live Birth: A live birth is defined as the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of pregnancy, which, after such separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. In accordance with WHO guidelines, live births weighing less than 500 grams are not included in the national statistics presented in this report.

Stillbirth and Stillbirth Rate: Foetal death is defined as death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy. A foetal death is indicated by the fact that, after such separation, the foetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Following WHO guidelines, a stillbirth in this report, refers to the death of a foetus weighing at least 500 grams. The **stillbirth rate** is given as follows:

$$\frac{\text{Number of Stillbirths} \times 1,000}{\text{Total Number of Live Births and Stillbirths}}$$

Early Neonatal Death (ENND) and Early Neonatal Mortality Rate: An early neonatal death refers to the death of a live-born infant during the first week of life. The **early neonatal mortality rate** is calculated as follows:

$$\frac{\text{Number of Early Neonatal Deaths} \times 1,000}{\text{Total Number of Live Births}}$$

¹⁰ In this report, where rates are based on very small numbers, they should be interpreted with caution.

Perinatal Death and Perinatal Mortality Rate (PMR): Perinatal deaths include stillbirths and early neonatal deaths. The **perinatal mortality rate (PMR)** is calculated as follows:

$$\frac{\text{Number of Stillbirths and Early Neonatal Deaths} \times 1,000}{\text{Total Number of Live Births and Stillbirths}}$$

In this report a second perinatal mortality rate has been calculated excluding all stillbirths and early neonatal deaths due to congenital anomalies. This **adjusted rate (Adjusted PMR)** to some extent removes those perinatal events where death was unavoidable, but no attempt has been made to exclude only invariably fatal congenital anomalies.

Congenital Anomalies are physiological or structural abnormalities that develop at or before birth and are present at the time of birth. Congenital anomalies are those diseases/conditions categorised in *ICD-10*, Chapter XVII, *Congenital Malformations, Deformities and Chromosomal Abnormalities* (Q00.0-Q99.9).

Twinning Rate: This is given by:

$$\frac{\text{Number of Twin Maternities} \times 1,000}{\text{Total Number of Maternities}}$$

Twin maternities, which resulted in stillbirths, are included in the calculation of the twinning rate.

OTHER ITEMS

The definitions given below relate to the principal classification variables contained in the main section of the report and refer only to those terms where explanation is considered necessary. The definitions are grouped according to the section in which they first appear.

GENERAL CHARACTERISTICS

Born Before Arrival (BBA): Born before arrival indicates that an infant was delivered before arrival at hospital.

Domiciliary Birth: Domiciliary births are *planned* home births. The vast majority of these are attended by an independent midwife and are not associated with a hospital. In 2006, there were 35 births under hospital administered home birth schemes. For the purposes of this report these births are treated as hospital births due to their small numbers.

Parity: Maternal parity indicates a mother's total number of previous live births and stillbirths.

Marital Status: Five categories are recognised as specified below:

1. Married
2. Never Married¹¹
3. Widowed
4. Separated, covering the following categories:
 - Deserted
 - Legally separated
 - Church decree of nullity
 - Otherwise separated
5. Divorced.

Mother's and Father's Nationality: Country of birth for mother and father. This definition is for the sole purpose of giving the necessary directions for the completion of the Birth Notification Form and is not a legal definition.

Mother's and Father's Occupation: Occupations are coded and grouped, with minor modifications, according to the system of socio-economic groupings as used by the Central Statistics Office in the *1991 Census of Population*, Volume 6. Details are given in Appendix C.

Birthweight: Birthweight is given in grams and hospitals are asked to record the weight within the first hour after birth. In accordance with WHO guidelines, infants weighing under 500 grams are not included in the national statistics presented in this report.

Period of Gestation: Gestational age at delivery is recorded in completed weeks, and is measured or estimated according to the best method available in each case.

Time Since Last Birth: This variable gives the time, grouped into yearly intervals, since the mother's last live birth or stillbirth.

PERINATAL CARE

Antenatal Length of Stay: This is computed as the difference, in days, between a mother's date of admission and her date of delivery. Domiciliary births are not included in tables relating to this variable.

Postnatal Length of Stay: This is computed as the difference, in days, between the date of delivery and the date of the mother's discharge from hospital. A return of 'not stated' for this variable may indicate that the completed form was returned before the mother had been discharged. Domiciliary births are not included in tables relating to this variable.

¹¹ Data recording marital status as 'Never Married' are classified as 'Single' marital status in this report.

Immunity to Rubella: An affirmative answer should be recorded only where there is documented evidence of a rubella antibody test. A history of rubella or previous immunisation is not sufficient.

Method of Delivery: Six categories are used:

1. Spontaneous cephalic delivery, without any of the following:
2. Breech delivery, spontaneous, with or without forceps to after-coming head, breech extraction
3. Forceps delivery
4. Vacuum extraction¹²
5. Caesarean section
6. Other Specified and Combined (for example, combination of spontaneous delivery followed by a vacuum extraction or caesarean section).

Hospital Admission Booked or Unbooked: This indicates whether a mother's admission into hospital for delivery was booked or unbooked prior to delivery. Domiciliary births are not included in the tables relating to this variable.

Type of Feeding: This indicates whether artificial feeding, breastfeeding, or a combination of both was being used at the time of discharge. The **Breastfeeding Rate** is based on live births only (excluding ENNDs), and is calculated as follows:

$$\frac{\text{Number of Mothers Breastfeeding} \times 100}{\text{Total Live Births (excluding ENNDs)}}$$

Transfer of Infants: This identifies infants who were transferred to another hospital for medical reasons.

Size of Maternity Unit: Size in this context refers to the number of live births and stillbirths occurring during the year.

PERINATAL OUTCOMES

Antepartum and Intrapartum Stillbirths: These refer to stillbirths occurring prior to and during labour respectively.

Cause of Death: This categorisation indicates the principal underlying pathological cause, which in the opinion of the certifier made the greatest contribution to the death of the infant or foetus. In assigning cause of death in the NPRS, the guidelines recommended by the WHO have been followed. A summary of these guidelines is provided in Appendix D. The Tenth Revision of the ICD came into effect for births from 1 January 2005 onwards.

¹² Also known as Ventouse Deliveries (**Source:** Henderson Jane, et al. 'Pregnancy and Childbirth', Health Care Needs Assessment, <http://hcna.radcliffe-oxford.com/pregframe.htm>, date consulted 21 November 2006.)

Age at Death: The age of early neonatal deaths is given in completed hours if the infant survived less than one day and in completed days otherwise.

Post-mortem: This indicates whether or not a post-mortem examination was performed. In some cases a return of 'not stated' may be due to the notification form being returned prior to post-mortem.

Length of Infant's Stay: This is computed as the difference, in days, between the infant's date of birth and the date of the infant's discharge from hospital. A return of 'not stated' for this variable may indicate that the completed form was returned before the infant had been discharged. Where an infant was transferred to another hospital, the date of the transfer is given as the date of the infant's discharge. Domiciliary births and perinatal deaths are not included in the tables relating to this variable.

Notes: All perinatal statistics and definitions are based on WHO ICD-10 Classifications.

Where a particular value of a variable does not occur in a table, the row corresponding to that value is not included. This arises most frequently in relation to multiple births. For example, in Table 3.16 the values for 'under 15' were not included as there were no occurrences of these multiple births for mother's age 'under 15'.

Appendix B

Copy of Part 3 of the Birth Notification Form

The following format was used for births in 2006

Notification of Birth - To: National Perinatal Reporting System, The Economic & Social Research Institute, Whitaker Square, Sir John Rogerson's Quay, Dublin 2

TYPE OF BIRTH (Live = 1, Still = 2) PLACE OF BIRTH (Hospital = 1, BBA = 2, Domiciliary = 3) NAME AND ADDRESS OF HOSPITAL _____

HOSPITAL NO. CASE NO.

INFANT'S DETAILS

DATE OF BIRTH (DD/MM/YYYY) TIME OF BIRTH _____

IF MULTIPLE BIRTH ORDER OF BIRTH No. of

SEX (Male = 1, Female = 2, Indeterminate = 3) 24

BIRTHWEIGHT GRAMMES

PERIOD OF GESTATION WEEKS

FATHER'S DETAILS

COUNTRY

NATIONALITY

OCCUPATION

DATE OF BIRTH (DDMMYYYY)

MOTHER'S DETAILS

COUNTRY

NATIONALITY

OCCUPATION

DATE OF BIRTH (DDMMYYYY)

MARITAL STATUS (Married = 1, Never Married = 2, Widowed = 3, Married but Separated = 4, Divorced = 5)

DATE OF PRESENT MARRIAGE (DDMMYYYY)

DATE OF LAST BIRTH (live or still) (DDMMYYYY)

NO. OF PREVIOUS LIVE BIRTHS

CHILDREN STILL LIVING

STILLBIRTHS

SPONTANEOUS ABORTIONS

PERINATAL DEATH

TYPE OF DEATH (Early Neonatal = 1, Stillbirth = 2)

WAS AUTOPSY PERFORMED (Yes = 1, No = 2)

AGE AT DEATH DAYS HOURS

PLACE OF DEATH

IF STILLBIRTH, DID DEATH OCCUR BEFORE LABOUR (1) DURING LABOUR (2) NOT KNOWN (3)

CAUSE OF DEATH

MAIN DISEASE OR CONDITION IN FOETUS OR INFANT _____

OTHER DISEASES OR CONDITIONS IN FOETUS OR INFANT _____

MOTHER'S HEALTH

ANTENATAL CARE THIS PREGNANCY (Hospital / Obstetrician = 1, G.P. Only = 2, Combined = 3, None = 4, Midwife Only = 5)

DATE OF FIRST VISIT TO DOCTOR DURING PREGNANCY (DDMMYYYY)

DATE OF FIRST VISIT TO HOSPITAL DURING PREGNANCY (DDMMYYYY)

WAS MOTHER IMMUNE TO RUBELLA (Yes = 1, No = 2, Not Known = 3)

METHOD OF DELIVERY (Spontaneous = 1, Breech ± Forceps = 2, Forceps = 3, Vac. Extraction = 4, Caesarean Sec. = 5, Other = 6)

MAIN MATERNAL DISEASE OR CONDITION AFFECTING FOETUS OR INFANT _____

OTHER MATERNAL DISEASES OR CONDITIONS AFFECTING FOETUS OR INFANT _____

INFANT'S HEALTH

TYPE OF FEEDING (Artificial = 1, Breast = 2, Combined = 3)

WAS BCG ADMINISTERED (Yes = 1, No = 2)

MAIN DISEASE OR CONGENITAL MALFORMATION AFFECTING INFANT _____

OTHER DISEASES OR CONGENITAL MALFORMATIONS AFFECTING INFANT _____

HOSPITAL

WAS ADMISSION BOOKED (Yes = 1, No = 2)

DATE OF MOTHER'S ADMISSION (DDMMYYYY)

DATE OF MOTHER'S DISCHARGE (DDMMYYYY)

DATE OF INFANT'S DISCHARGE (DDMMYYYY)

WAS INFANT TRANSFERRED TO OTHER HOSPITAL FOR MEDICAL REASONS (Yes = 1, No = 2)

IF 'YES', NAME OF HOSPITAL _____

GENERAL PRACTITIONER ATTENDED BY MOTHER

Signature _____ Date _____

BNF01/2003

Appendix C

Classification of Occupation

Occupations have been coded and classified in a set of socio-economic groups according to a system devised by the CSO. The final CSO Category of 'Unknown' has been differentiated into five distinct groups for the purposes of the Perinatal Reporting System. These are 'Unemployed', 'Not Classifiable', 'Not Applicable', 'Home Duties', and 'Not Stated'. Occupation is coded as unemployed when occupation is given as unemployed and where no previous occupation is stated. If a previous occupation is stated then occupation is coded to the relevant category. 'Not Classifiable' has been used to categorise indecipherable, unclear, or unlisted occupations where efforts to clarify the information have failed. 'Home Duties' is entered where occupation has been entered as 'full-time mother/father/parent', 'stay at home mother/father/parent', 'housewife', 'home duties', etc. 'Not Stated' applies to those cases where either the mother's or father's occupation has been left blank or has been recorded as 'unknown'.

Under Father's occupation, the following applies:

'Not Applicable' is entered when the marital status of the mother has been given as never married, widowed, separated or divorced, and where father's occupation has been left blank. 'Not Stated' applies to those cases where the marital status of the mother is recorded as either married or not stated, and where father's occupation has been left blank or has been recorded as 'unknown'. In either case, if an occupation is given for the father then the appropriate occupational code has been used.

The full list of socio-economic groups used in this report is as follows:

- Farmers & Farm Managers
- Other Agricultural Occupations & Fishermen
- Higher Professional
- Lower Professional
- Employers & Managers
- Salaried Employees
- Intermediate Non-Manual Workers
- Other Non-Manual Workers
- Skilled Manual Workers
- Semi-Skilled Manual Workers
- Unskilled Manual Workers
- Unemployed
- Not Classifiable
- Not Applicable (Father's Occupation Only)
- Home Duties
- Not Stated.

Appendix D

Cause of Death Classification

The main cause of death has been determined according to the guidelines set out by the WHO in the Tenth Revision of the ICD.¹³ Briefly, the principal coding criteria are as follows:

The main cause of death as far as possible should indicate the pathological condition of the infant or foetus, which in the opinion of the certifier made the greatest contribution towards the death.

The following rules are extracted from *ICD-10, Second Edition, 2005, 4. Rules and guidelines for mortality and morbidity coding*. These rules have been applied to cause of death coding in the NPRS data set as follows:

Section (A) – main disease or condition in foetus or infant

Section (B) – other diseases or conditions in foetus or infant

Section (C) – main maternal disease or condition affecting foetus or infant

Section (D) – other maternal disease or condition affecting foetus or infant.

Rule P1. Mode of death or prematurity entered in section (a)

If heart or cardiac failure, asphyxia or anoxia (any condition in P20.-, P21.-) or prematurity (any condition in P07.-) is entered in section (a) and other conditions of the infant or foetus are entered in either section (a) or section (b), code the first-mentioned of these other conditions as if it had been entered alone in section (a) and code the condition actually entered in section (a) as if it had been entered in section (b).

Rule P2. Two or more conditions entered in sections (a) or (c)

If two or more conditions are entered in section (a) or section (c), code the first-mentioned of these as if it had been entered alone in section (a) or (c) and code the others as if they had been entered in sections (b) or (d).

¹³ World Health Organisation, 2005, *International Statistical Classification of Diseases and Related Health Problems*, 10th Revision, Vols. 1–3. Geneva: World Health Organisation.

Rule P3. No entry in sections (a) or (c).

If there is no entry in section (a) but there are conditions of the infant or foetus entered in section (b), code the first-mentioned of these as if it had been entered in section (a); if there are no entries in either section (a) or section (b), either code **P95** (Foetal death of unspecified cause) for stillbirths or code **P96.9** (Condition originating in the perinatal period, unspecified) for early neonatal deaths should be used for section (a).

Similarly, if there is no entry in section (c) but there are maternal conditions entered in section (d), code the first-mentioned of these as if it had been entered in section (c); if there are no entries in either section (c) or section (d) use some artificial code, e.g. xxx.x for section (c) to indicate that no maternal condition was reported.

Rule P4. Conditions entered in wrong section.

If a maternal condition (i.e. conditions in **P00-P04**) is entered in section (a) or section (b), or if a condition of the infant or foetus is entered in section (c) or section (d), code the conditions as if they had been entered in the respective correct section.

For the purpose of the cause of death tables included in this report, one further criterion has been applied. Where no infant's condition is given then, where a specific maternal condition is given (any condition in **P00-P04**), the main cause of death is classified under the maternal condition.

Table D1 illustrates these rules.

Table D1
Cause of Death Coding Rules

ICD-10 Rule	Cause of Death as recorded on the Birth Notification Form				Action
	Section A	Section B	Section C	Section D	
	Main disease or condition in foetus or infant	Other disease or condition in foetus or infant	Main maternal disease or condition affecting foetus or infant	Other maternal disease or condition affecting foetus or infant	
Rule 1	Heart or cardiac failure, asphyxia, anoxia, prematurity (P20.-, P21.- or P07.-)	Other condition	No entry	No entry	Code the stated 'other condition' in section A and move condition entered in section A to section B.
Rule 2	Two or more conditions listed	No entry	Two or more conditions listed	No entry	Code the first mentioned condition in sections A and C respectively and code the second mentioned conditions in sections B and D respectively.
Rule 3	No entry	Condition entered	No entry	Condition entered	Code the first mentioned condition in section B to section A and the first mentioned condition in section D to section C.
	No entry	No entry	No entry	No entry	Code 'Foetal death of unspecified cause' (P95) for stillbirths or 'Conditions originating in the perinatal period, unspecified' (P96.9) for early neonatal deaths in section A.
Rule 4	Maternal condition entered (P00-P04)	Maternal condition entered (P00-P04)	Infant condition entered	Infant condition entered	Code maternal conditions in sections C and D respectively. Code infant conditions in sections A and B respectively.
Additional Rule	No entry	No entry	Maternal condition (P00-P04)	No entry	Code maternal condition to section A.

Table D2 illustrates the main chapter blocks relating to cause of death categories in this report.

Table D2
ICD-10, Cause of Death Codes

ICD-10 Code	Cause of Death
P00–P04	Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery
P05–P08	Disorders related to length of gestation and foetal growth
P10–P15	Birth trauma
P20–P29	Respiratory and cardiovascular disorders specific to the perinatal period
P35–P39	Infections specific to the perinatal period
P50–P61	Haemorrhagic and haematological disorders of foetus and newborn
P70–P74	Transitory endocrine and metabolic disorders specific to foetus and newborn
P75–P78	Digestive system disorders of foetus and newborn
P80–P83	Conditions involving the integument and temperature regulation of foetus and newborn
P90–P96	Other disorders originating in the perinatal period
Q00–Q07	Congenital malformations of the nervous system
Q10–Q18	Congenital malformations of eye, ear, face and neck
Q20–Q28	Congenital malformations of the circulatory system
Q30–Q34	Congenital malformations of the respiratory system
Q35–Q37	Cleft lip and cleft palate
Q38–Q45	Other congenital malformations of the digestive system
Q50–Q56	Congenital malformations of genital organs
Q60–Q64	Congenital malformations of the urinary system
Q65–Q79	Congenital malformations and deformations of the musculoskeletal system
Q80–Q89	Other congenital malformations
Q90–Q99	Chromosomal abnormalities, not elsewhere classified

All other codes (A00–O99, R00–Z99) have been classified to the category ‘all other causes’.

Appendix E

Classification of County of Residence

The following codes are applied to mother's and father's county of residence. Where a Dublin postal code, such as Dublin 13, is entered then a code of 10 is applied for Dublin City. Where there is no postal code and Dublin is recorded then a code of 11 is applied for Dublin County. For births occurring in the HSE South region where Tipperary is recorded as county of residence then a code of 62, Tipperary South Riding, is applied. For births occurring in other HSE regions where Tipperary is recorded as county of residence then a code of 32, Tipperary North Riding, is applied. Where a mother's or father's county of residence is unknown the code 99 is applied. The code 90 is applied where the address given is outside the Republic of Ireland.

10 Dublin City	51 Sligo
11 Dublin County	52 Leitrim
12 Kildare	60 Carlow
13 Wicklow	61 Kilkenny
20 Laois	62 Tipperary South Riding
21 Offaly	63 Waterford
22 Longford	64 Wexford
23 Westmeath	70 Cork
30 Clare	71 Kerry
31 Limerick	80 Galway
32 Tipperary North Riding	81 Mayo
40 Meath	82 Roscommon
41 Cavan	90 Other – all other places outside Republic of Ireland
42 Monaghan	
43 Louth	99 Not Stated
50 Donegal	

Appendix F

Classification of Nationality

Nationality for mother and father is defined by the country of their birth. This definition is for the sole purpose of giving the necessary directions for the completion of the Birth Notification Form and is not a legal definition.

Nationalities have been coded and classified into a set of groups according to a system devised by the CSO.

Country groupings are as follows:

Ireland includes the following:

Ireland
Irish American
Irish English
Irish European
Irish Other

UK includes the following:

England
Great Britain
Northern Ireland
Scotland
Wales

EU 15 (excluding Ireland and the UK) includes the following:

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Portugal
France	Spain
Germany	Sweden
Greece	

EU 15 to EU 25 accession states Includes the following:

Cyprus	Lithuania
Czech Republic	Malta
Estonia	Poland
Hungary	Slovakia
Latvia	Slovenia

Rest of Europe includes the following:

Albania	Jersey
Andorra	Liechtenstein
Armenia	Macedonia, The Former Yugoslav Republic of
Azerbaijan	Moldova, Republic of
Belarus	Monaco
Bosnia and Herzegovina	Norway
Bulgaria	Romania
Croatia	Russian Federation
Faroe Islands	San Marino
Georgia	Switzerland
Gibraltar	Turkey
Guernsey	Ukraine
Iceland	Vatican City
Isle of Man	Yugoslavia, Federal Republic of

Africa includes the following:

Algeria	Malawi
Angola	Mali
Benin	Mauritania
Botswana	Mauritius
Burkina Faso	Mayotte
Burundi	Morocco
Cameroon	Mozambique
Cape Verde	Namibia
Central African Republic	Niger
Chad	Nigeria
Comoros	Reunion
Congo	Rwanda
Congo, The Democratic Republic of the	Saint Helena
Cote d'Ivoire	Sao Tome and Principe
Djibouti	Senegal
Egypt	Seychelles
Equatorial Guinea	Sierra Leone
Eritrea	Somalia
Ethiopia	South Africa
Gabon	Sudan
Gambia	Swaziland
Ghana	Tanzania, United Republic of
Guinea	Togo
Guinea-Bissau	Tunisia
Kenya	Uganda
Lesotho	Western Sahara
Liberia	Zambia
Libyan Arab Jamahiriya	Zimbabwe
Madagascar	

Asia includes the following:

Afghanistan	Macao
Bahrain	Malaysia
Bangladesh	Maldives
Bhutan	Mongolia
British Indian Ocean Territory	Myanmar
Brunei Darussalam	Nepal
Cambodia	Oman
China	Pakistan
East Timor	Palestinian Territory, Occupied
Hong Kong	Philippines
India	Qatar
Indonesia	Saudi Arabia
Iran, Islamic Republic of	Singapore
Iraq	Sri Lanka
Israel	Syrian Arab Republic
Japan	Taiwan, Province of China
Jordan	Tajikistan
Kazakhstan	Thailand
Korea, Democratic People's Republic of	Turkmenistan
Korea, Republic of	United Arab Emirates
Kuwait	Uzbekistan
Kyrgyzstan	Vietnam
Lao People's Democratic Republic	Yemen
Lebanon	

America includes the following:

Anguilla	Guyana
Antigua and Barbuda	Haiti
Argentina	Honduras
Aruba	Jamaica
Bahamas	Martinique
Barbados	Mexico
Belize	Montserrat
Bermuda	Netherlands Antilles
Bolivia	Nicaragua
Brazil	Panama
Canada	Paraguay
Cayman Islands	Peru
Chile	Puerto Rico
Colombia	Saint Kitts and Nevis
Costa Rica	Saint Lucia
Cuba	Saint Pierre and Miquelon
Dominica	Saint Vincent and the Grenadines
Dominican Republic	Suriname
Ecuador	Trinidad and Tobago
El Salvador	Turks and Caicos Islands
Falkland Islands (Malvinas)	United States
French Guiana	Uruguay
Greenland	Venezuela
Grenada	Virgin Islands, British
Guadeloupe	Virgin Island, US
Guatemala	

Australia Includes the following:

Australia

New Zealand and Other Oceania includes the following:

American Samoa	Niue
Antarctica	Norfolk Island
Bouvet Island	Northern Mariana Islands
Christmas Island	Palau
Cocos (Keeling) Islands	Papua New Guinea
Cook Islands	Pitcairn
Fiji	Samoa
French Polynesia	Solomon Islands
French Southern Territories	South Georgia and the South Sandwich Islands
Guam	Svalbard and Jan Mayen
Heard Island and McDonald Islands	Tokelau
Kiribati	Tonga
Marshall Islands	Tuvalu
Micronesia, Federated States of	United States Minor Outlying Islands
Nauru	Islands
New Caledonia	Vanuatu
New Zealand	Wallis and Futuna

Multi-Nationality includes the following:

Mixed/Multi-Nationality (stated as so)

No Nationality

Stated as so

Not Stated

Where nationality is not provided

Not Applicable

This applies to father's nationality only. Where mother's marital status is stated as 'never married', 'widowed', 'separated' or 'divorced' the General Register Office does not require father's details to register the birth, and as such this information is generally not provided.

All Other Nationalities

Where nationality is not recorded to any category listed above

Appendix G

Cross-Tabulations of Selected Variables: 2006

This appendix contains a range of cross-tabulations relating to singleton and multiple live births and stillbirths. A full list of these tables is given in the Table of Contents. The format of each cross-tabulation is identical. The values of the two variables are given along the top rows and left hand side column. The top number in each cell indicates the number of observations relating to that combination of variable values. The second number indicates the percentage contribution of that cell to the total for the whole row. The last number indicates the percentage contribution of that cell to the total for the whole column. The figures at the end of each row or column give the overall total for that row or column, and the associated percentages express each of these figures as a percentage of the grand total.

Table G3

 Mother's Marital Status by Age of Mother, Live Births and Stillbirths, 2006
 Singleton Births

Mother's Marital Status Frequency Row Per Cent Col. Per Cent	Age of Mother									Total
	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 Years and Over	Not Stated	
Married	0	186	1,815	8,519	17,825	11,852	2,116	82	30	42,425
	0.0	0.4	4.3	20.1	42.0	27.9	5.0	0.2	0.1	100.0
	0.0	8.0	21.9	57.5	82.0	85.3	80.4	90.1	68.2	66.5
Never Married	11	2,123	6,422	6,105	3,547	1,655	334	4	13	20,214
	0.1	10.5	31.8	30.2	17.5	8.2	1.7	0.0	0.1	100.0
	100.0	91.7	77.4	41.2	16.3	11.9	12.7	4.4	29.5	31.7
Widowed	0	1	0	15	35	38	14	0	0	103
	0.0	1.0	0.0	14.6	34.0	36.9	13.6	0.0	0.0	100.0
	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.0	0.0	0.2
Separated	0	3	44	120	215	212	99	2	1	696
	0.0	0.4	6.3	17.2	30.9	30.5	14.2	0.3	0.1	100.0
	0.0	0.1	0.5	0.8	1.0	1.5	3.8	2.2	2.3	1.1
Divorced	0	0	6	53	104	131	68	3	0	365
	0.0	0.0	1.6	14.5	28.5	35.9	18.6	0.8	0.0	100.0
	0.0	0.0	0.1	0.4	0.5	0.9	2.6	3.3	0.0	0.6
Not Stated	0	2	5	9	13	6	1	0	0	36
	0.0	5.6	13.9	25.0	36.1	16.7	2.8	0.0	0.0	100.0
	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1
Total	11	2,315	8,292	14,821	21,739	13,894	2,632	91	44	63,839
	0.0	3.6	13.0	23.2	34.1	21.8	4.1	0.1	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Note: Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table G4

Mother's Marital Status by Age of Father, Live Births and Stillbirths, 2006
Singleton Births

Mother's Marital Status Frequency Row Per Cent Col. Per Cent	Age of Father									Total
	Under 15 Years	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 Years and Over	Not Stated	
Married	0	51	695	4,282	13,298	12,046	4,388	1,218	6,447	42,425
	0.0	0.1	1.6	10.1	31.3	28.4	10.3	2.9	15.2	100.0
	0.0	22.0	37.7	70.6	90.4	93.9	92.3	85.6	29.3	66.5
Never Married	2	180	1,121	1,696	1,292	666	297	156	14,804	20,214
	0.0	0.9	5.5	8.4	6.4	3.3	1.5	0.8	73.2	100.0
	100.0	77.6	60.8	28.0	8.8	5.2	6.2	11.0	67.3	31.7
Widowed	0	1	3	10	13	9	4	4	59	103
	0.0	1.0	2.9	9.7	12.6	8.7	3.9	3.9	57.3	100.0
	0.0	0.4	0.2	0.2	0.1	0.1	0.1	0.3	0.3	0.2
Separated	0	0	19	48	59	61	40	25	444	696
	0.0	0.0	2.7	6.9	8.5	8.8	5.7	3.6	63.8	100.0
	0.0	0.0	1.0	0.8	0.4	0.5	0.8	1.8	2.0	1.1
Divorced	0	0	4	26	42	36	26	20	211	365
	0.0	0.0	1.1	7.1	11.5	9.9	7.1	5.5	57.8	100.0
	0.0	0.0	0.2	0.4	0.3	0.3	0.5	1.4	1.0	0.6
Not Stated	0	0	1	2	3	6	1	0	23	36
	0.0	0.0	2.8	5.6	8.3	16.7	2.8	0.0	63.9	100.0
	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Total	2	232	1,843	6,064	14,707	12,824	4,756	1,423	21,988	63,839
	0.0	0.4	2.9	9.5	23.0	20.1	7.4	2.2	34.4	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Note: Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table G9

Method of Delivery by Mother's Length of Stay in Hospital After Delivery, Live Births and Stillbirths, 2006
Singleton Births

Method of Delivery Frequency Row Per Cent Col. Per Cent	Postnatal Length of Stay								Total
	0–1 Days	2 Days	3–5 Days	6–8 Days	9–11 Days	12–14 Days	More than 2 Weeks	Not Stated	
Spontaneous	8,873	14,661	14,066	348	46	4	7	34	38,039
	23.3	38.5	37.0	0.9	0.1	0.0	0.0	0.1	100.0
	89.8	82.0	42.2	15.5	19.7	8.3	20.0	94.4	59.7
Breech/Forceps	45	65	125	10	0	1	0	0	246
	18.3	26.4	50.8	4.1	0.0	0.4	0.0	0.0	100.0
	0.5	0.4	0.4	0.4	0.0	2.1	0.0	0.0	0.4
Forceps	134	465	1,253	74	8	0	1	0	1,935
	6.9	24.0	64.8	3.8	0.4	0.0	0.1	0.0	100.0
	1.4	2.6	3.8	3.3	3.4	0.0	2.9	0.0	3.0
Vacuum extraction	763	2,431	4,437	156	18	5	3	0	7,813
	9.8	31.1	56.8	2.0	0.2	0.1	0.0	0.0	100.0
	7.7	13.6	13.3	7.0	7.7	10.4	8.6	0.0	12.3
Caesarean section	45	236	13,356	1,631	161	38	24	2	15,493
	0.3	1.5	86.2	10.5	1.0	0.2	0.2	0.0	100.0
	0.5	1.3	40.1	72.8	68.8	79.2	68.6	5.6	24.3
Other specified & combined	13	11	92	19	1	0	0	0	136
	9.6	8.1	67.6	14.0	0.7	0.0	0.0	0.0	100.0
	0.1	0.1	0.3	0.8	0.4	0.0	0.0	0.0	0.2
Not Stated	3	1	2	1	0	0	0	0	7
	42.9	14.3	28.6	14.3	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9,876	17,870	33,331	2,239	234	48	35	36	63,669
	15.5	28.1	52.4	3.5	0.4	0.1	0.1	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes: 'Not Stated' for postnatal length of stay includes 29 births where place of birth was recorded as domiciliary but birth was registered by a hospital. In these cases, mother was not admitted under a planned community midwife scheme. Therefore, dates of mother's length of stay were not applicable. There were 7 births where mother's discharge was not stated. Domiciliary births, of which there were 170 singleton births, are excluded from this table. See Appendix H for detailed analysis.

Table G10

Maternal Parity by Mother's Length of Stay in Hospital After Delivery, Live Births and Stillbirths, 2006
Singleton Births

Maternal Parity Frequency Row Per Cent Col. Per Cent	Postnatal Length of Stay								Total
	0-1 Days	2 Days	3-5 Days	6-8 Days	9-11 Days	12-14 Days	More than 2 Weeks	Not Stated	
0	1,910	6,056	16,922	1,192	126	32	17	9	26,264
	7.3	23.1	64.4	4.5	0.5	0.1	0.1	0.0	100.0
	19.3	33.9	50.8	53.2	53.8	66.7	48.6	25.0	41.3
1	3,915	6,449	9,290	564	54	6	7	14	20,299
	19.3	31.8	45.8	2.8	0.3	0.0	0.0	0.1	100.0
	39.6	36.1	27.9	25.2	23.1	12.5	20.0	38.9	31.9
2	2,421	3,332	4,672	306	30	5	8	11	10,785
	22.4	30.9	43.3	2.8	0.3	0.0	0.1	0.1	100.0
	24.5	18.6	14.0	13.7	12.8	10.4	22.9	30.6	16.9
3	1,027	1,252	1,613	117	16	4	1	2	4,032
	25.5	31.1	40.0	2.9	0.4	0.1	0.0	0.0	100.0
	10.4	7.0	4.8	5.2	6.8	8.3	2.9	5.6	6.3
4	351	453	534	32	3	0	2	0	1,375
	25.5	32.9	38.8	2.3	0.2	0.0	0.1	0.0	100.0
	3.6	2.5	1.6	1.4	1.3	0.0	5.7	0.0	2.2
5	138	186	153	10	3	1	0	0	491
	28.1	37.9	31.2	2.0	0.6	0.2	0.0	0.0	100.0
	1.4	1.0	0.5	0.4	1.3	2.1	0.0	0.0	0.8
6	59	83	70	7	1	0	0	0	220
	26.8	37.7	31.8	3.2	0.5	0.0	0.0	0.0	100.0
	0.6	0.5	0.2	0.3	0.4	0.0	0.0	0.0	0.3
More than 6	51	56	71	10	1	0	0	0	189
	27.0	29.6	37.6	5.3	0.5	0.0	0.0	0.0	100.0
	0.5	0.3	0.2	0.4	0.4	0.0	0.0	0.0	0.3
Not Stated	4	3	6	1	0	0	0	0	14
	28.6	21.4	42.9	7.1	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	9,876	17,870	33,331	2,239	234	48	35	36	63,669
	15.5	28.1	52.4	3.5	0.4	0.1	0.1	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes: 'Not Stated' includes 29 births where place of birth was recorded as domiciliary but birth was registered by a hospital. In these cases, mother was not admitted under a planned community midwife scheme. Therefore, dates of mother's length of stay were not applicable. There were 7 births where mother's discharge was not stated.

Domiciliary births, of which there were 170 singleton births, are excluded from this table. See Appendix H for detailed analysis.

Table G11
Father's Occupation by Infant's Birthweight, Live Births and Stillbirths, 2006
Singleton Births

Father's Occupation Frequency Row Per Cent Col. Per Cent	Birthweight (grams)												Total
	500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and Over	Not Stated	
Farmers & Farm Managers	2 0.1 1.9	1 0.0 0.8	1 0.0 0.7	2 0.1 1.3	13 0.6 2.6	40 1.9 2.6	180 8.6 2.6	574 27.5 2.8	765 36.7 3.4	410 19.7 4.5	96 4.6 5.1	0 0.0 0.0	2,084 100.0 3.3
Other Agricultural Occupations & Fishermen	1 0.1 0.9	0 0.0 0.0	1 0.1 0.7	1 0.1 0.6	5 0.6 1.0	24 2.9 1.6	87 10.7 1.3	247 30.3 1.2	286 35.0 1.3	137 16.8 1.5	27 3.3 1.4	0 0.0 0.0	816 100.0 1.3
Higher Professional	11 0.2 10.2	11 0.2 8.6	7 0.1 5.1	10 0.2 6.5	29 0.6 5.8	83 1.8 5.4	395 8.4 5.7	1,507 32.1 7.2	1,727 36.7 7.6	754 16.0 8.3	166 3.5 8.8	1 0.0 14.3	4,701 100.0 7.4
Lower Professional	3 0.1 2.8	6 0.2 4.7	6 0.2 4.4	3 0.1 1.9	19 0.7 3.8	58 2.0 3.8	263 9.1 3.8	892 30.9 4.3	1,064 36.8 4.7	479 16.6 5.3	95 3.3 5.0	0 0.0 0.0	2,888 100.0 4.5
Employers & Managers	5 0.1 4.6	9 0.2 7.0	7 0.1 5.1	10 0.2 6.5	25 0.5 5.0	97 1.9 6.3	446 8.8 6.4	1,563 30.9 7.5	1,922 38.0 8.5	774 15.3 8.6	194 3.8 10.3	0 0.0 0.0	5,052 100.0 7.9
Salaried Employees	1 0.1 0.9	0 0.0 0.0	2 0.2 1.5	5 0.4 3.2	5 0.4 1.0	26 2.0 1.7	105 8.3 1.5	377 29.7 1.8	507 39.9 2.2	208 16.4 2.3	34 2.7 1.8	0 0.0 0.0	1,270 100.0 2.0
Intermediate Non-Manual Workers	7 0.1 6.5	9 0.2 7.0	6 0.1 4.4	11 0.2 7.1	37 0.8 7.5	81 1.7 5.3	438 9.0 6.3	1,537 31.5 7.4	1,845 37.8 8.2	737 15.1 8.1	170 3.5 9.0	2 0.0 28.6	4,880 100.0 7.6
Other Non-Manual Workers	9 0.2 8.3	10 0.2 7.8	10 0.2 7.4	8 0.1 5.2	41 0.7 8.3	134 2.4 8.8	594 10.9 8.6	1,813 33.1 8.7	1,938 35.4 8.6	768 14.0 8.5	145 2.7 7.7	0 0.0 0.0	5,470 100.0 8.6

Table G11 (continued)

Father's Occupation Frequency Row Per Cent Col. Per Cent	Birthweight (grams)												Total
	500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and Over	Not Stated	
Skilled Manual Workers	21 0.1 19.4	23 0.2 18.0	28 0.2 20.6	28 0.1 18.1	88 0.6 17.7	287 2.0 18.7	1,419 10.0 20.5	4,466 31.4 21.5	5,232 36.8 23.1	2,175 15.3 24.0	439 3.1 23.3	3 0.0 42.9	14,209 100.0 22.3
Semi-Skilled Manual Workers	5 0.2 4.6	2 0.1 1.6	7 0.3 5.1	3 0.1 1.9	13 0.5 2.6	57 2.3 3.7	261 10.4 3.8	849 33.9 4.1	897 35.8 4.0	350 14.0 3.9	63 2.5 3.3	0 0.0 0.0	2,507 100.0 3.9
Unskilled Manual Workers	1 0.2 0.9	2 0.3 1.6	0 0.0 0.0	6 1.0 3.9	11 1.8 2.2	22 3.6 1.4	77 12.5 1.1	182 29.6 0.9	213 34.6 0.9	84 13.7 0.9	17 2.8 0.9	0 0.0 0.0	615 100.0 1.0
Unemployed	5 0.3 4.6	6 0.3 4.7	7 0.4 5.1	6 0.3 3.9	28 1.5 5.6	81 4.4 5.3	259 14.0 3.7	628 33.9 3.0	560 30.3 2.5	212 11.5 2.3	59 3.2 3.1	0 0.0 0.0	1,851 100.0 2.9
Not Classifiable	1 0.1 0.9	2 0.1 1.6	0 0.0 0.0	4 0.3 2.6	6 0.4 1.2	21 1.5 1.4	156 10.9 2.3	484 33.8 2.3	504 35.2 2.2	204 14.3 2.3	48 3.4 2.5	0 0.0 0.0	1,430 100.0 2.2
Not Applicable	34 0.2 31.5	40 0.3 31.3	49 0.3 36.0	53 0.3 34.2	170 1.1 34.3	492 3.2 32.1	2,146 14.0 31.0	5,475 35.6 26.3	4,916 32.0 21.7	1,669 10.9 18.4	318 2.1 16.9	1 0.0 14.3	15,363 100.0 24.1
Home Duties	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	4 3.3 0.3	14 11.4 0.2	38 30.9 0.2	44 35.8 0.2	20 16.3 0.2	3 2.4 0.2	0 0.0 0.0	123 100.0 0.2
Not Stated	2 0.3 1.9	7 1.2 5.5	5 0.9 3.7	5 0.9 3.2	6 1.0 1.2	24 4.1 1.6	75 12.9 1.1	184 31.7 0.9	194 33.4 0.9	68 11.7 0.8	10 1.7 0.5	0 0.0 0.0	580 100.0 0.9
Total	108 0.2 100.0	128 0.2 100.0	136 0.2 100.0	155 0.2 100.0	496 0.8 100.0	1,531 2.4 100.0	6,915 10.8 100.0	20,816 32.6 100.0	22,614 35.4 100.0	9,049 14.2 100.0	1,884 3.0 100.0	7 0.0 100.0	63,839 100.0 100.0

Note: See Appendix C for a description of the classification system for occupations.

Table G12
Mother's Occupation by Infant's Birthweight, Live Births and Stillbirths, 2006
Singleton Births

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Birthweight (grams)											Total	
	500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and Over		Not Stated
Farmers & Farm Managers	0	0	0	0	0	0	4	25	25	10	2	0	66
	0.0	0.0	0.0	0.0	0.0	0.0	6.1	37.9	37.9	15.2	3.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1
Other Agricultural Occupations & Fishermen	0	0	0	0	0	7	18	40	48	14	3	0	130
	0.0	0.0	0.0	0.0	0.0	5.4	13.8	30.8	36.9	10.8	2.3	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.2	0.2	0.2	0.2	0.0	0.2
Higher Professional	8	4	4	8	18	74	303	1,187	1,389	624	127	0	3,746
	0.2	0.1	0.1	0.2	0.5	2.0	8.1	31.7	37.1	16.7	3.4	0.0	100.0
	7.4	3.1	2.9	5.2	3.6	4.8	4.4	5.7	6.1	6.9	6.7	0.0	5.9
Lower Professional	12	9	18	19	50	141	707	2,615	3,158	1,374	283	1	8,387
	0.1	0.1	0.2	0.2	0.6	1.7	8.4	31.2	37.7	16.4	3.4	0.0	100.0
	11.1	7.0	13.2	12.3	10.1	9.2	10.2	12.6	14.0	15.2	15.0	14.3	13.1
Employers & Managers	4	8	8	8	27	76	431	1,422	1,712	651	148	0	4,495
	0.1	0.2	0.2	0.2	0.6	1.7	9.6	31.6	38.1	14.5	3.3	0.0	100.0
	3.7	6.3	5.9	5.2	5.4	5.0	6.2	6.8	7.6	7.2	7.9	0.0	7.0
Salaried Employees	2	3	2	3	5	30	104	314	375	147	24	0	1,009
	0.2	0.3	0.2	0.3	0.5	3.0	10.3	31.1	37.2	14.6	2.4	0.0	100.0
	1.9	2.3	1.5	1.9	1.0	2.0	1.5	1.5	1.7	1.6	1.3	0.0	1.6
Intermediate Non-Manual Workers	17	24	35	36	100	313	1,500	4,746	5,355	2,090	415	2	14,633
	0.1	0.2	0.2	0.2	0.7	2.1	10.3	32.4	36.6	14.3	2.8	0.0	100.0
	15.7	18.8	25.7	23.2	20.2	20.4	21.7	22.8	23.7	23.1	22.0	28.6	22.9
Other Non-Manual Workers	16	17	18	19	63	188	888	2,607	2,660	992	176	1	7,645
	0.2	0.2	0.2	0.2	0.8	2.5	11.6	34.1	34.8	13.0	2.3	0.0	100.0
	14.8	13.3	13.2	12.3	12.7	12.3	12.8	12.5	11.8	11.0	9.3	14.3	12.0

Table G12 (continued)

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Birthweight (grams)													Total
	500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and Over	Not Stated		
Skilled Manual Workers	1 0.1 0.9	3 0.3 2.3	2 0.2 1.5	4 0.3 2.6	12 1.0 2.4	28 2.4 1.8	111 9.5 1.6	342 29.3 1.6	426 36.4 1.9	205 17.5 2.3	35 3.0 1.9	0 0.0 0.0	1,169 100.0 1.8	
Semi-Skilled Manual Workers	6 0.3 5.6	4 0.2 3.1	4 0.2 2.9	5 0.2 3.2	22 1.0 4.4	56 2.5 3.7	273 12.0 3.9	756 33.3 3.6	775 34.2 3.4	312 13.8 3.4	55 2.4 2.9	0 0.0 0.0	2,268 100.0 3.6	
Unskilled Manual Workers	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 50.0 0.0	1 16.7 0.0	2 33.3 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	6 100.0 0.0	
Unemployed	6 0.2 5.6	11 0.4 8.6	5 0.2 3.7	10 0.4 6.5	41 1.5 8.3	106 4.0 6.9	407 15.3 5.9	958 36.1 4.6	830 31.2 3.7	240 9.0 2.7	43 1.6 2.3	0 0.0 0.0	2,657 100.0 4.2	
Not Classifiable	9 0.3 8.3	9 0.3 7.0	13 0.5 9.6	8 0.3 5.2	34 1.3 6.9	93 3.4 6.1	347 12.8 5.0	902 33.3 4.3	890 32.8 3.9	339 12.5 3.7	67 2.5 3.6	1 0.0 14.3	2,712 100.0 4.2	
Home Duties	26 0.2 24.1	35 0.2 27.3	26 0.2 19.1	33 0.2 21.3	122 0.8 24.6	408 2.8 26.6	1,783 12.1 25.8	4,830 32.9 23.2	4,890 33.3 21.6	2,025 13.8 22.4	501 3.4 26.6	2 0.0 28.6	14,681 100.0 23.0	
Not Stated	1 0.4 0.9	1 0.4 0.8	1 0.4 0.7	2 0.9 1.3	2 0.9 0.4	11 4.7 0.7	36 15.3 0.5	71 30.2 0.3	79 33.6 0.3	26 11.1 0.3	5 2.1 0.3	0 0.0 0.0	235 100.0 0.4	
Total	108 0.2 100.0	128 0.2 100.0	136 0.2 100.0	155 0.2 100.0	496 0.8 100.0	1,531 2.4 100.0	6,915 10.8 100.0	20,816 32.6 100.0	22,614 35.4 100.0	9,049 14.2 100.0	1,884 3.0 100.0	7 0.0 100.0	63,839 100.0 100.0	

Notes: 'Not Applicable' is not used in the classification of maternal occupation.

See Appendix C for a description of the classification system for occupations.

Table G13
Father's Occupation by Interval in Years Since Last Birth, Live Births and Stillbirths, 2006
Singleton Births

Father's Occupation Frequency Row Per Cent Col. Per Cent	Interval in Years Since Last Birth										Total
	No Previous Births	1 year or less	>1 year to 2 years	>2 years to 3 years	>3 years to 4 years	>4 years to 5 years	>5 years to 6 years	More than 6 years	Number of previous births unknown	Not Stated	
Farmers & Farm Managers	618 29.7 2.4	27 1.3 5.0	417 20.0 4.7	450 21.6 4.7	210 10.1 3.4	123 5.9 3.4	71 3.4 3.0	147 7.1 2.4	0 0.0 0.0	21 1.0 4.7	2,084 100.0 3.3
Other Agricultural Occupations & Fishermen	308 37.7 1.2	4 0.5 0.7	121 14.8 1.4	147 18.0 1.5	80 9.8 1.3	39 4.8 1.1	25 3.1 1.1	85 10.4 1.4	0 0.0 0.0	7 0.9 1.6	816 100.0 1.3
Higher Professional	1,742 37.1 6.6	40 0.9 7.4	902 19.2 10.1	990 21.1 10.4	486 10.3 7.9	222 4.7 6.1	122 2.6 5.1	177 3.8 2.9	1 0.0 20.0	19 0.4 4.2	4,701 100.0 7.4
Lower Professional	1,195 41.4 4.5	19 0.7 3.5	470 16.3 5.3	492 17.0 5.2	309 10.7 5.0	126 4.4 3.5	86 3.0 3.6	177 6.1 2.9	0 0.0 0.0	14 0.5 3.1	2,888 100.0 4.5
Employers & Managers	1,914 37.9 7.3	31 0.6 5.8	798 15.8 8.9	957 18.9 10.1	551 10.9 9.0	257 5.1 7.1	168 3.3 7.1	354 7.0 5.9	0 0.0 0.0	22 0.4 4.9	5,052 100.0 7.9
Salaried Employees	469 36.9 1.8	5 0.4 0.9	203 16.0 2.3	230 18.1 2.4	144 11.3 2.4	79 6.2 2.2	41 3.2 1.7	85 6.7 1.4	0 0.0 0.0	14 1.1 3.1	1,270 100.0 2.0
Intermediate Non-Manual Workers	1,851 37.9 7.0	33 0.7 6.1	743 15.2 8.3	832 17.0 8.8	515 10.6 8.4	266 5.5 7.3	193 4.0 8.1	401 8.2 6.7	0 0.0 0.0	46 0.9 10.2	4,880 100.0 7.6
Other Non-Manual Workers	1,961 35.9 7.5	36 0.7 6.7	733 13.4 8.2	795 14.5 8.4	611 11.2 10.0	391 7.1 10.8	229 4.2 9.6	671 12.3 11.2	0 0.0 0.0	43 0.8 9.6	5,470 100.0 8.6

Table G13 (continued)

Father's Occupation Frequency Row Per Cent Col. Per Cent	Interval in Years Since Last Birth										Not Stated	Total
	No Previous Births	1 year or less	>1 year to 2 years	>2 years to 3 years	>3 years to 4 years	>4 years to 5 years	>5 years to 6 years	More than 6 years	Number of previous births unknown			
Skilled Manual Workers	5,401	114	2,019	2,274	1,452	913	568	1,347	0	121	14,209	
	38.0	0.8	14.2	16.0	10.2	6.4	4.0	9.5	0.0	0.9	100.0	
	20.5	21.2	22.6	24.0	23.7	25.1	23.9	22.4	0.0	26.9	22.3	
Semi-Skilled Manual Workers	933	17	328	378	266	164	114	288	1	18	2,507	
	37.2	0.7	13.1	15.1	10.6	6.5	4.5	11.5	0.0	0.7	100.0	
	3.5	3.2	3.7	4.0	4.3	4.5	4.8	4.8	20.0	4.0	3.9	
Unskilled Manual Workers	197	9	103	83	71	42	37	70	0	3	615	
	32.0	1.5	16.7	13.5	11.5	6.8	6.0	11.4	0.0	0.5	100.0	
	0.7	1.7	1.2	0.9	1.2	1.2	1.6	1.2	0.0	0.7	1.0	
Unemployed	500	46	400	316	221	125	57	160	0	26	1,851	
	27.0	2.5	21.6	17.1	11.9	6.8	3.1	8.6	0.0	1.4	100.0	
	1.9	8.6	4.5	3.3	3.6	3.4	2.4	2.7	0.0	5.8	2.9	
Not Classifiable	512	11	229	245	155	97	45	123	0	13	1,430	
	35.8	0.8	16.0	17.1	10.8	6.8	3.1	8.6	0.0	0.9	100.0	
	1.9	2.0	2.6	2.6	2.5	2.7	1.9	2.0	0.0	2.9	2.2	
Not Applicable	8,420	139	1,340	1,190	989	756	596	1,862	2	69	15,363	
	54.8	0.9	8.7	7.7	6.4	4.9	3.9	12.1	0.0	0.4	100.0	
	32.0	25.9	15.0	12.5	16.2	20.8	25.0	31.0	40.0	15.3	24.1	
Home Duties	10	1	33	27	15	13	5	18	0	1	123	
	8.1	0.8	26.8	22.0	12.2	10.6	4.1	14.6	0.0	0.8	100.0	
	0.0	0.2	0.4	0.3	0.2	0.4	0.2	0.3	0.0	0.2	0.2	
Not Stated	259	5	83	80	48	23	23	45	1	13	580	
	44.7	0.9	14.3	13.8	8.3	4.0	4.0	7.8	0.2	2.2	100.0	
	1.0	0.9	0.9	0.8	0.8	0.6	1.0	0.7	20.0	2.9	0.9	
Total	26,290	537	8,922	9,486	6,123	3,636	2,380	6,010	5	450	63,839	
	41.2	0.8	14.0	14.9	9.6	5.7	3.7	9.4	0.0	0.7	100.0	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

Note: See Appendix C for a description of the classification system for occupations.

Table G14
Mother's Occupation by Interval in Years Since Last Birth, Live Births and Stillbirths, 2006
Singleton Births

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Interval in Years Since Last Birth										Total
	No Previous Births	1 year or less	>1 year to 2 years	>2 years to 3 years	>3 years to 4 years	>4 years to 5 years	>5 years to 6 years	More than 6 years	Number of previous births unknown	Not Stated	
Farmers & Farm Managers	19	3	17	15	4	3	2	2	0	1	66
	28.8	4.5	25.8	22.7	6.1	4.5	3.0	3.0	0.0	1.5	100.0
	0.1	0.6	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.1
Other Agricultural Occupations & Fishermen	66	0	14	16	10	1	3	20	0	0	130
	50.8	0.0	10.8	12.3	7.7	0.8	2.3	15.4	0.0	0.0	100.0
	0.3	0.0	0.2	0.2	0.2	0.0	0.1	0.3	0.0	0.0	0.2
Higher Professional	1,705	20	635	680	319	132	85	153	0	17	3,746
	45.5	0.5	17.0	18.2	8.5	3.5	2.3	4.1	0.0	0.5	100.0
	6.5	3.7	7.1	7.2	5.2	3.6	3.6	2.5	0.0	3.8	5.9
Lower Professional	3,627	59	1,404	1,492	723	344	229	465	1	43	8,387
	43.2	0.7	16.7	17.8	8.6	4.1	2.7	5.5	0.0	0.5	100.0
	13.8	11.0	15.7	15.7	11.8	9.5	9.6	7.7	20.0	9.6	13.1
Employers & Managers	2,301	30	548	651	333	197	128	294	1	12	4,495
	51.2	0.7	12.2	14.5	7.4	4.4	2.8	6.5	0.0	0.3	100.0
	8.8	5.6	6.1	6.9	5.4	5.4	5.4	4.9	20.0	2.7	7.0
Salaried Employees	577	5	125	97	78	31	29	61	0	6	1,009
	57.2	0.5	12.4	9.6	7.7	3.1	2.9	6.0	0.0	0.6	100.0
	2.2	0.9	1.4	1.0	1.3	0.9	1.2	1.0	0.0	1.3	1.6
Intermediate Non-Manual Workers	6,936	75	1,567	1,848	1,352	840	551	1,391	0	73	14,633
	47.4	0.5	10.7	12.6	9.2	5.7	3.8	9.5	0.0	0.5	100.0
	26.4	14.0	17.6	19.5	22.1	23.1	23.2	23.1	0.0	16.2	22.9
Other Non-Manual Workers	3,599	43	720	833	641	397	317	1,048	0	47	7,645
	47.1	0.6	9.4	10.9	8.4	5.2	4.1	13.7	0.0	0.6	100.0
	13.7	8.0	8.1	8.8	10.5	10.9	13.3	17.4	0.0	10.4	12.0

Table G14 (continued)

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Interval in Years Since Last Birth											Total
	No Previous Births	1 year or less	>1 year to 2 years	>2 years to 3 years	>3 years to 4 years	>4 years to 5 years	>5 years to 6 years	More than 6 years	Number of previous births unknown	Not Stated	Total	
Skilled Manual Workers	593	6	155	166	77	58	27	78	0	9	1,169	
	50.7	0.5	13.3	14.2	6.6	5.0	2.3	6.7	0.0	0.8	100.0	
	2.3	1.1	1.7	1.7	1.3	1.6	1.1	1.3	0.0	2.0	1.8	
Semi-Skilled Manual Workers	1,149	18	184	230	154	116	88	315	0	14	2,268	
	50.7	0.8	8.1	10.1	6.8	5.1	3.9	13.9	0.0	0.6	100.0	
	4.4	3.4	2.1	2.4	2.5	3.2	3.7	5.2	0.0	3.1	3.6	
Unskilled Manual Workers	4	0	0	0	1	0	1	0	0	0	6	
	66.7	0.0	0.0	0.0	16.7	0.0	16.7	0.0	0.0	0.0	100.0	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Unemployed	1,259	47	344	283	234	143	101	222	1	23	2,657	
	47.4	1.8	12.9	10.7	8.8	5.4	3.8	8.4	0.0	0.9	100.0	
	4.8	8.8	3.9	3.0	3.8	3.9	4.2	3.7	20.0	5.1	4.2	
Not Classifiable	1,774	15	221	225	155	83	59	165	1	14	2,712	
	65.4	0.6	8.1	8.3	5.7	3.1	2.2	6.1	0.0	0.5	100.0	
	6.7	2.8	2.5	2.4	2.5	2.3	2.5	2.7	20.0	3.1	4.2	
Home Duties	2,558	214	2,960	2,927	2,025	1,281	746	1,789	1	180	14,681	
	17.4	1.5	20.2	19.9	13.8	8.7	5.1	12.2	0.0	1.2	100.0	
	9.7	39.9	33.2	30.9	33.1	35.2	31.3	29.8	20.0	40.0	23.0	
Not Stated	123	2	28	23	17	10	14	7	0	11	235	
	52.3	0.9	11.9	9.8	7.2	4.3	6.0	3.0	0.0	4.7	100.0	
	0.5	0.4	0.3	0.2	0.3	0.3	0.6	0.1	0.0	2.4	0.4	
Total	26,290	537	8,922	9,486	6,123	3,636	2,380	6,010	5	450	63,839	
	41.2	0.8	14.0	14.9	9.6	5.7	3.7	9.4	0.0	0.7	100.0	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

Notes: 'Not Applicable' is not used in the classification of maternal occupation.
See Appendix C for a description of the classification system for occupations.

Table G15
 Father's Occupation by Infant's Type of Feeding, Live Births, 2006
 Singleton Births

Father's Occupation Frequency Row Per Cent Col. Per Cent	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Farmers & Farm Managers	1,110 53.4 3.4	914 44.0 3.2	50 2.4 1.8	3 0.1 2.9	2,077 100.0 3.3
Other Agricultural Occupations & Fishermen	414 50.9 1.3	369 45.4 1.3	28 3.4 1.0	2 0.2 1.9	813 100.0 1.3
Higher Professional	1,420 30.4 4.4	2,970 63.5 10.5	276 5.9 10.0	10 0.2 9.7	4,676 100.0 7.4
Lower Professional	885 30.7 2.7	1,835 63.7 6.5	153 5.3 5.6	6 0.2 5.8	2,879 100.0 4.5
Employers & Managers	2,153 42.7 6.7	2,655 52.7 9.4	225 4.5 8.2	6 0.1 5.8	5,039 100.0 7.9
Salaried Employees	629 49.6 1.9	597 47.1 2.1	39 3.1 1.4	2 0.2 1.9	1,267 100.0 2.0
Intermediate Non-Manual Workers	2,279 46.9 7.0	2,376 48.9 8.4	197 4.1 7.1	5 0.1 4.9	4,857 100.0 7.6
Other Non-Manual Workers	2,798 51.4 8.6	2,329 42.8 8.2	310 5.7 11.2	7 0.1 6.8	5,444 100.0 8.6
Skilled Manual Workers	7,284 51.5 22.5	6,282 44.4 22.2	560 4.0 20.3	29 0.2 28.2	14,155 100.0 22.3
Semi-Skilled Manual Workers	1,430 57.2 4.4	933 37.3 3.3	129 5.2 4.7	6 0.2 5.8	2,498 100.0 3.9
Unskilled Manual Workers	409 67.2 1.3	179 29.4 0.6	21 3.4 0.8	0 0.0 0.0	609 100.0 1.0
Unemployed	1,195 64.8 3.7	500 27.1 1.8	142 7.7 5.2	6 0.3 5.8	1,843 100.0 2.9
Not Classifiable	541 38.0 1.7	751 52.8 2.7	130 9.1 4.7	0 0.0 0.0	1,422 100.0 2.2
Not Applicable	9,560 62.6 29.5	5,257 34.4 18.6	448 2.9 16.3	18 0.1 17.5	15,283 100.0 24.0
Home Duties	45 36.6 0.1	67 54.5 0.2	11 8.9 0.4	0 0.0 0.0	123 100.0 0.2
Not Stated	219 38.4 0.7	311 54.6 1.1	37 6.5 1.3	3 0.5 2.9	570 100.0 0.9
Total	32,371 50.9 100.0	28,325 44.6 100.0	2,756 4.3 100.0	103 0.2 100.0	63,555 100.0 100.0

Notes: See Appendix C for a description of the classification system for occupations.

'Not Stated' contains 84 early neonatal deaths for which type of feeding was not stated.

Table G16
 Mother's Occupation by Infant's Type of Feeding, Live Births, 2006
 Singleton Births

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Farmers & Farm Managers	36 54.5 0.1	28 42.4 0.1	2 3.0 0.1	0 0.0 0.0	66 100.0 0.1
Other Agricultural Occupations & Fishermen	44 33.8 0.1	84 64.6 0.3	2 1.5 0.1	0 0.0 0.0	130 100.0 0.2
Higher Professional	1,055 28.3 3.3	2,462 66.1 8.7	206 5.5 7.5	3 0.1 2.9	3,726 100.0 5.9
Lower Professional	2,683 32.1 8.3	5,267 63.0 18.6	398 4.8 14.4	16 0.2 15.5	8,364 100.0 13.2
Employers & Managers	1,961 43.8 6.1	2,323 51.9 8.2	194 4.3 7.0	1 0.0 1.0	4,479 100.0 7.0
Salaried Employees	502 49.9 1.6	470 46.7 1.7	32 3.2 1.2	2 0.2 1.9	1,006 100.0 1.6
Intermediate Non-Manual Workers	8,373 57.4 25.9	5,740 39.4 20.3	442 3.0 16.0	24 0.2 23.3	14,579 100.0 22.9
Other Non-Manual Workers	4,164 54.7 12.9	3,108 40.8 11.0	334 4.4 12.1	9 0.1 8.7	7,615 100.0 12.0
Skilled Manual Workers	458 39.2 1.4	653 55.9 2.3	56 4.8 2.0	1 0.1 1.0	1,168 100.0 1.8
Semi-Skilled Manual Workers	1,419 63.0 4.4	756 33.5 2.7	76 3.4 2.8	3 0.1 2.9	2,254 100.0 3.5
Unskilled Manual Workers	2 33.3 0.0	4 66.7 0.0	0 0.0 0.0	0 0.0 0.0	6 100.0 0.0
Unemployed	1,770 67.0 5.5	760 28.8 2.7	107 4.0 3.9	6 0.2 5.8	2,643 100.0 4.2
Not Classifiable	1,448 53.8 4.5	1,086 40.4 3.8	152 5.7 5.5	3 0.1 2.9	2,689 100.0 4.2
Home Duties	8,345 57.2 25.8	5,480 37.5 19.3	740 5.1 26.9	35 0.2 34.0	14,600 100.0 23.0
Not Stated	111 48.3 0.3	104 45.2 0.4	15 6.5 0.5	0 0.0 0.0	230 100.0 0.4
Total	32,371 50.9 100.0	28,325 44.6 100.0	2,756 4.3 100.0	103 0.2 100.0	63,555 100.0 100.0

Notes: 'Not Applicable' is not used in the classification of maternal occupation.

See Appendix C for a description of the classification system for occupations.

'Not Stated' contains 84 early neonatal deaths for which type of feeding was not stated.

Table G17
 Infant's Type of Feeding by Maternal Parity, Live Births, 2006
 Singleton Births

Type of Feeding Frequency Row Per Cent Col. Per Cent	Maternal Parity									Total
	0	1	2	3	4	5	6	More than 6	Not Stated	
Artificial	11,745	10,862	6,077	2,265	818	307	159	133	5	32,371
	36.3	33.6	18.8	7.0	2.5	0.9	0.5	0.4	0.0	100.0
	44.9	53.5	56.3	56.0	59.7	62.8	71.9	70.7	35.7	50.9
Breast	13,196	8,596	4,259	1,560	462	152	53	40	7	28,325
	46.6	30.3	15.0	5.5	1.6	0.5	0.2	0.1	0.0	100.0
	50.5	42.4	39.5	38.6	33.7	31.1	24.0	21.3	50.0	44.6
Combined	1,160	808	442	213	85	26	9	13	0	2,756
	42.1	29.3	16.0	7.7	3.1	0.9	0.3	0.5	0.0	100.0
	4.4	4.0	4.1	5.3	6.2	5.3	4.1	6.9	0.0	4.3
Not Stated	40	28	14	8	5	4	0	2	2	103
	38.8	27.2	13.6	7.8	4.9	3.9	0.0	1.9	1.9	100.0
	0.2	0.1	0.1	0.2	0.4	0.8	0.0	1.1	14.3	0.2
Total	26,141	20,294	10,792	4,046	1,370	489	221	188	14	63,555
	41.1	31.9	17.0	6.4	2.2	0.8	0.3	0.3	0.0	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Note: 'Not Stated' contains 84 early neonatal deaths for which type of feeding was not stated.

Table G18

Mother's County of Residence by Mother's Marital Status, Live Births and Stillbirths, 2006
 Singleton and Multiple Births

Mother's County of Residence Frequency Row Per Cent Col. Per Cent	Mother's Marital Status						Total
	Married	Never Married	Widowed	Separated	Divorced	Not Stated	
Carlow	546	310	1	7	4	1	869
	62.8	35.7	0.1	0.8	0.5	0.1	100.0
	1.2	1.5	1.0	1.0	1.1	2.8	1.3
Cavan	732	266	1	7	14	1	1,021
	71.7	26.1	0.1	0.7	1.4	0.1	100.0
	1.7	1.3	1.0	1.0	3.7	2.8	1.6
Clare	1,258	443	4	6	3	0	1,714
	73.4	25.8	0.2	0.4	0.2	0.0	100.0
	2.9	2.1	3.8	0.8	0.8	0.0	2.6
Cork	5,173	2,083	21	85	49	1	7,412
	69.8	28.1	0.3	1.1	0.7	0.0	100.0
	11.8	10.1	20.0	11.9	12.9	2.8	11.3
Donegal	1,388	602	8	29	12	0	2,039
	68.1	29.5	0.4	1.4	0.6	0.0	100.0
	3.2	2.9	7.6	4.1	3.2	0.0	3.1
Dublin City	7,669	5,394	16	165	83	8	13,335
	57.5	40.4	0.1	1.2	0.6	0.1	100.0
	17.5	26.1	15.2	23.2	21.9	22.2	20.3
Dublin County	3,595	1,344	3	43	22	3	5,010
	71.8	26.8	0.1	0.9	0.4	0.1	100.0
	8.2	6.5	2.9	6.0	5.8	8.3	7.6
Galway	2,603	818	3	34	23	1	3,482
	74.8	23.5	0.1	1.0	0.7	0.0	100.0
	5.9	4.0	2.9	4.8	6.1	2.8	5.3
Kerry	1,297	504	1	25	10	0	1,837
	70.6	27.4	0.1	1.4	0.5	0.0	100.0
	3.0	2.4	1.0	3.5	2.6	0.0	2.8
Kildare	2,434	985	5	24	17	2	3,467
	70.2	28.4	0.1	0.7	0.5	0.1	100.0
	5.5	4.8	4.8	3.4	4.5	5.6	5.3
Kilkenny	823	339	4	10	5	0	1,181
	69.7	28.7	0.3	0.8	0.4	0.0	100.0
	1.9	1.6	3.8	1.4	1.3	0.0	1.8
Laois	739	331	1	6	2	0	1,079
	68.5	30.7	0.1	0.6	0.2	0.0	100.0
	1.7	1.6	1.0	0.8	0.5	0.0	1.6
Leitrim	312	92	0	8	1	0	413
	75.5	22.3	0.0	1.9	0.2	0.0	100.0
	0.7	0.4	0.0	1.1	0.3	0.0	0.6
Limerick	1,812	955	3	19	4	0	2,793
	64.9	34.2	0.1	0.7	0.1	0.0	100.0
	4.1	4.6	2.9	2.7	1.1	0.0	4.2
Longford	382	170	1	9	1	2	565
	67.6	30.1	0.2	1.6	0.2	0.4	100.0
	0.9	0.8	1.0	1.3	0.3	5.6	0.9
Louth	1,082	663	3	32	16	0	1,796
	60.2	36.9	0.2	1.8	0.9	0.0	100.0
	2.5	3.2	2.9	4.5	4.2	0.0	2.7

Table G18 (continued)

Mother's County of Residence Frequency Row Per Cent Col. Per Cent	Mother's Marital Status						Total
	Married	Never Married	Widowed	Separated	Divorced	Not Stated	
Mayo	1,277	411	0	31	10	0	1,729
	73.9	23.8	0.0	1.8	0.6	0.0	100.0
	2.9	2.0	0.0	4.4	2.6	0.0	2.6
Meath	2,227	738	4	29	16	0	3,014
	73.9	24.5	0.1	1.0	0.5	0.0	100.0
	5.1	3.6	3.8	4.1	4.2	0.0	4.6
Monaghan	509	189	2	11	9	0	720
	70.7	26.3	0.3	1.5	1.3	0.0	100.0
	1.2	0.9	1.9	1.5	2.4	0.0	1.1
Offaly	740	319	3	12	8	4	1,086
	68.1	29.4	0.3	1.1	0.7	0.4	100.0
	1.7	1.5	2.9	1.7	2.1	11.1	1.7
Roscommon	524	159	2	6	5	0	696
	75.3	22.8	0.3	0.9	0.7	0.0	100.0
	1.2	0.8	1.9	0.8	1.3	0.0	1.1
Sligo	569	256	0	7	7	0	839
	67.8	30.5	0.0	0.8	0.8	0.0	100.0
	1.3	1.2	0.0	1.0	1.8	0.0	1.3
Tipperary North	448	182	1	3	3	1	638
	70.2	28.5	0.2	0.5	0.5	0.2	100.0
	1.0	0.9	1.0	0.4	0.8	2.8	1.0
Tipperary South	935	532	4	16	5	0	1,492
	62.7	35.7	0.3	1.1	0.3	0.0	100.0
	2.1	2.6	3.8	2.2	1.3	0.0	2.3
Waterford	1,053	673	5	23	8	0	1,762
	59.8	38.2	0.3	1.3	0.5	0.0	100.0
	2.4	3.3	4.8	3.2	2.1	0.0	2.7
Westmeath	942	418	3	14	10	5	1,392
	67.7	30.0	0.2	1.0	0.7	0.4	100.0
	2.1	2.0	2.9	2.0	2.6	13.9	2.1
Wexford	1,385	767	2	30	16	0	2,200
	63.0	34.9	0.1	1.4	0.7	0.0	100.0
	3.2	3.7	1.9	4.2	4.2	0.0	3.3
Wicklow	1,467	694	3	20	15	6	2,205
	66.5	31.5	0.1	0.9	0.7	0.3	100.0
	3.3	3.4	2.9	2.8	4.0	16.7	3.4
Other	12	6	1	1	1	1	22
	54.5	27.3	4.5	4.5	4.5	4.5	100.0
	0.0	0.0	1.0	0.1	0.3	2.8	0.0
Not Stated	1	1	0	0	0	0	2
	50.0	50.0	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	43,934	20,644	105	712	379	36	65,810
	66.8	31.4	0.2	1.1	0.6	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes: See Appendix E for the classification system employed for county of residence.

Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table G19

Mother's County of Residence by Infant's Type of Feeding, Live Births Only, 2006
 Singleton and Multiple Births

Mother's County of Residence Frequency Row Per Cent Col. Per Cent	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Carlow	481	368	16	2	867
	55.5	42.4	1.8	0.2	100.0
	1.4	1.3	0.5	1.7	1.3
Cavan	560	429	20	4	1,013
	55.3	42.3	2.0	0.4	100.0
	1.7	1.5	0.7	3.4	1.5
Clare	1,076	576	53	5	1,710
	62.9	33.7	3.1	0.3	100.0
	3.2	2.0	1.8	4.2	2.6
Cork	3,637	3,536	197	10	7,380
	49.3	47.9	2.7	0.1	100.0
	10.9	12.2	6.6	8.4	11.3
Donegal	1,311	519	189	5	2,024
	64.8	25.6	9.3	0.2	100.0
	3.9	1.8	6.3	4.2	3.1
Dublin City	6,287	6,266	682	21	13,256
	47.4	47.3	5.1	0.2	100.0
	18.8	21.7	22.9	17.6	20.2
Dublin County	2,059	2,627	300	4	4,990
	41.3	52.6	6.0	0.1	100.0
	6.1	9.1	10.1	3.4	7.6
Galway	1,557	1,368	540	2	3,467
	44.9	39.5	15.6	0.1	100.0
	4.6	4.7	18.1	1.7	5.3
Kerry	963	798	67	2	1,830
	52.6	43.6	3.7	0.1	100.0
	2.9	2.8	2.2	1.7	2.8
Kildare	1,684	1,615	152	5	3,456
	48.7	46.7	4.4	0.1	100.0
	5.0	5.6	5.1	4.2	5.3
Kilkenny	616	554	8	0	1,178
	52.3	47.0	0.7	0.0	100.0
	1.8	1.9	0.3	0.0	1.8
Laois	540	497	33	3	1,073
	50.3	46.3	3.1	0.3	100.0
	1.6	1.7	1.1	2.5	1.6
Leitrim	209	180	22	0	411
	50.9	43.8	5.4	0.0	100.0
	0.6	0.6	0.7	0.0	0.6
Limerick	1,976	752	47	9	2,784
	71.0	27.0	1.7	0.3	100.0
	5.9	2.6	1.6	7.6	4.3
Longford	283	263	16	2	564
	50.2	46.6	2.8	0.4	100.0
	0.8	0.9	0.5	1.7	0.9
Louth	949	762	74	6	1,791
	53.0	42.5	4.1	0.3	100.0
	2.8	2.6	2.5	5.0	2.7

Table G19 (continued)

Mother's County of Residence Frequency Row Per Cent Col. Per Cent	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Mayo	905	738	76	2	1,721
	52.6	42.9	4.4	0.1	100.0
	2.7	2.6	2.5	1.7	2.6
Meath	1,422	1,468	102	8	3,000
	47.4	48.9	3.4	0.3	100.0
	4.2	5.1	3.4	6.7	4.6
Monaghan	393	309	10	1	713
	55.1	43.3	1.4	0.1	100.0
	1.2	1.1	0.3	0.8	1.1
Offaly	621	446	9	3	1,079
	57.6	41.3	0.8	0.3	100.0
	1.9	1.5	0.3	2.5	1.6
Roscommon	346	322	25	1	694
	49.9	46.4	3.6	0.1	100.0
	1.0	1.1	0.8	0.8	1.1
Sligo	478	284	66	4	832
	57.5	34.1	7.9	0.5	100.0
	1.4	1.0	2.2	3.4	1.3
Tipperary North	394	237	3	1	635
	62.0	37.3	0.5	0.2	100.0
	1.2	0.8	0.1	0.8	1.0
Tipperary South	897	571	13	8	1,489
	60.2	38.3	0.9	0.5	100.0
	2.7	2.0	0.4	6.7	2.3
Waterford	901	816	32	1	1,750
	51.5	46.6	1.8	0.1	100.0
	2.7	2.8	1.1	0.8	2.7
Westmeath	650	703	32	2	1,387
	46.9	50.7	2.3	0.1	100.0
	1.9	2.4	1.1	1.7	2.1
Wexford	1,245	861	80	5	2,191
	56.8	39.3	3.7	0.2	100.0
	3.7	3.0	2.7	4.2	3.3
Wicklow	1,039	1,036	117	1	2,193
	47.4	47.2	5.3	0.0	100.0
	3.1	3.6	3.9	0.8	3.3
Other	10	8	2	2	22
	45.5	36.4	9.1	9.1	100.0
	0.0	0.0	0.1	1.7	0.0
Not Stated	0	2	0	0	2
	0.0	100.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0
Total	33,489	28,911	2,983	119	65,502
	51.1	44.1	4.6	0.2	100.0
	100.0	100.0	100.0	100.0	100.0

Notes: 'Not Stated' contains 100 early neonatal deaths for which type of feeding was not stated.

See Appendix E for the classification system employed for county of residence.

Table G20
 Mother's County of Residence
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Singleton and Multiple Births

Mother's County of Residence	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
Carlow	867	1.3	2	2.3	3	3.5	5.8	4.6
Cavan	1,013	1.5	8	7.8	3	3.0	10.8	7.9
Clare	1,710	2.6	4	2.3	3	1.8	4.1	3.5
Cork	7,380	11.3	32	4.3	14	1.9	6.2	4.5
Donegal	2,024	3.1	15	7.4	7	3.5	10.8	6.9
Dublin City	13,256	20.2	79	5.9	29	2.2	8.1	6.3
Dublin County	4,990	7.6	20	4.0	8	1.6	5.6	4.8
Galway	3,467	5.3	15	4.3	8	2.3	6.6	4.9
Kerry	1,830	2.8	7	3.8	3	1.6	5.4	5.4
Kildare	3,456	5.3	11	3.2	7	2.0	5.2	3.5
Kilkenny	1,178	1.8	3	2.5	1	0.8	3.4	3.4
Laois	1,073	1.6	6	5.6	4	3.7	9.3	6.5
Leitrim	411	0.6	2	4.8	0	0.0	4.8	4.8
Limerick	2,784	4.3	9	3.2	11	4.0	7.2	4.7
Longford	564	0.9	1	1.8	2	3.5	5.3	1.8
Louth	1,791	2.7	5	2.8	6	3.4	6.1	5.6
Mayo	1,721	2.6	8	4.6	3	1.7	6.4	3.5
Meath	3,000	4.6	14	4.6	9	3.0	7.6	5.7
Monaghan	713	1.1	7	9.7	1	1.4	11.1	9.7
Offaly	1,079	1.6	7	6.4	1	0.9	7.4	4.6
Roscommon	694	1.1	2	2.9	1	1.4	4.3	4.3
Sligo	832	1.3	7	8.3	3	3.6	11.9	10.7
Tipperary NR	635	1.0	3	4.7	1	1.6	6.3	3.1
Tipperary SR	1,489	2.3	3	2.0	7	4.7	6.7	5.4
Waterford	1,750	2.7	12	6.8	4	2.3	9.1	6.3
Westmeath	1,387	2.1	5	3.6	3	2.2	5.7	3.6
Wexford	2,191	3.3	9	4.1	7	3.2	7.3	5.0
Wicklow	2,193	3.3	12	5.4	1	0.5	5.9	4.5
Other	22	0.0	0	0.0	2	90.9	90.9	90.9
Not Stated	2	0.0	0	0.0	0	0.0	0.0	0.0
Total	65,502	100	308	4.7	152	2.3	7.0	5.3

Note: See Appendix E for the classification system employed for county of residence.

Appendix H

Domiciliary Births: 1999–2006

CROSS-TABULATIONS OF SELECTED VARIABLES: 2006

Domiciliary births have been included, unless otherwise stated, in the analysis presented in previous sections.

In 1999 there were 246 domiciliary births. Of these, there was one early neonatal death and no stillbirths. In 2000 the number of domiciliary births fell to 216 with, again, one early neonatal death and no stillbirths. There were no domiciliary multiple births in 1999 or 2000.

In 2001 the number of domiciliary births increased to 245. Of these, there was one stillbirth and no early neonatal deaths. There was one set of domiciliary twin births in 2001.

The trend in the number of domiciliary births continued to be upwards, increasing to 288 in 2002. Of these, there were no stillbirths and one early neonatal death. There were no domiciliary multiple births in 2002.

In 2003 and 2004 the number of domiciliary births decreased to 236 and 202 respectively. Of these, there were no stillbirths and one early neonatal death in 2004. There were no domiciliary multiple births in 2003 or 2004. In 2005 there were 183 planned domiciliary births reported to NPRS. There were no stillbirths, early neonatal deaths or multiple births among domiciliary births in 2005.

For 2006 there were 170 domiciliary births. Again there were no stillbirths, early neonatal deaths or multiple births among domiciliary births in 2006.

The tables that follow present selected statistics on domiciliary births for 1999–2006 (H1) and contain a range of cross-tabulations relating to all domiciliary births for 2006 (H2-H8). A full list of these tables is included in the Table of Contents. The format of each cross-tabulation is identical. The values of the two variables are given along the top row and left-hand side column. The top number in each cell indicates the number of observations relating to that combination of variable values. The second number indicates the percentage contribution of that cell to the total for the whole row. The last number indicates the percentage contribution of that cell to the total for the whole column. The figures at the end of each row or column give the overall total for that row or column, and the associated percentages express each of these figures as a percentage of the grand total.

Table H1
Trends in Selected Statistics, Domiciliary Births, 1999–2006

Selected Statistics	1999	2000	2001	2002	2003	2004	2005	2006
General Characteristics								
Average Age of Mother in years ¹	33.47	33.33	33.18	34.07	34.01	34.31	33.37	34.34
Average Maternal Parity ¹	1.52	1.62	1.40	2.07	1.63	1.60	1.70	1.72
Single Mothers (%) ^{1,2}	25.20	29.63	31.56	22.57	27.97	29.21	23.50	20.00
Average weight in grams ³ Total Live Births	3,699.46	3,726.71	3,686.75	3,730.06	3,754.25	3,738.40	3,760.09	3,742.20
Low birthweight <2500 grams (%) ³ Total Live Births	0.43	1.86	0.00	0.35	0.00	0.99	0.55	0.59
Average Gestational Age at delivery in weeks	40.04	39.92	40.02	40.14	40.05	39.99	40.03	40.08
Average interval since last birth in years	3.46	3.40	3.82	3.74	3.65	3.54	3.30	3.44
Perinatal Care								
Combined Antenatal Care – Midwife and GP/Hospital (%) ⁴	59.76	57.87	55.33	57.29	66.10	64.36	71.58	76.47
Immunity to Rubella (%) ¹	92.34	90.70	93.44	91.61	94.07	97.03	95.08	96.47
Mothers breastfeeding (%) ⁵	98.25	96.63	95.02	94.04	94.07	97.51	93.99	97.06

Notes: There were no domiciliary multiple births in 1999, 2000 or in the years 2002–2006.

There was one set of domiciliary twin births in 2001.

Missing values are not included in the calculation of percentages.

¹ Based on maternities.

² Data recording marital status as 'never married' are classified as 'single' marital status in this report.

³ Based on live births.

⁴ Based on maternities. This figure applies to the percentage of home births where antenatal care is stated as 'Combined', rather than 'Midwife Only'.

⁵ Based on maternities with live births. Excludes early neonatal deaths.

Table H3

Age of Mother by Gestational Age at Delivery, 2006

Domiciliary Births

Age of Mother Frequency Row Per Cent Col. Per Cent	Gestational Age (weeks)			
	32–36	37–41	42 and Over	Total
20–24 Years	0	3	0	3
	0.0	100.0	0.0	100.0
	0.0	1.9	0.0	1.8
25–29 Years	0	23	2	25
	0.0	92.0	8.0	100.0
	0.0	14.6	16.7	14.7
30–34 Years	1	57	4	62
	1.6	91.9	6.5	100.0
	100.0	36.3	33.3	36.5
35–39 Years	0	64	4	68
	0.0	94.1	5.9	100.0
	0.0	40.8	33.3	40.0
40–44 Years	0	8	2	10
	0.0	80.0	20.0	100.0
	0.0	5.1	16.7	5.9
45 Years and Over	0	1	0	1
	0.0	100.0	0.0	100.0
	0.0	0.6	0.0	0.6
Not Stated	0	1	0	1
	0.0	100.0	0.0	100.0
	0.0	0.6	0.0	0.6
Total	1	157	12	170
	0.6	92.4	7.1	100.0
	100.0	100.0	100.0	100.0

Table H4
 Birthweight by Gestational Age at Delivery, 2006
 Domiciliary Births

Birthweight (grams) Frequency Row Per Cent Col. Per Cent	Gestational Age (weeks)			
	32–36	37–41	42 and Over	Total
2000–2499	0	1	0	1
	0.0	100.0	0.0	100.0
	0.0	0.6	0.0	0.6
2500–2999	0	7	0	7
	0.0	100.0	0.0	100.0
	0.0	4.5	0.0	4.1
3000–3499	1	39	2	42
	2.4	92.9	4.8	100.0
	100.0	24.8	16.7	24.7
3500–3999	0	60	4	64
	0.0	93.8	6.3	100.0
	0.0	38.2	33.3	37.6
4000–4499	0	38	3	41
	0.0	92.7	7.3	100.0
	0.0	24.2	25.0	24.1
4500 and Over	0	12	3	15
	0.0	80.0	20.0	100.0
	0.0	7.6	25.0	8.8
Total	1	157	12	170
	0.6	92.4	7.1	100.0
	100.0	100.0	100.0	100.0

Table H5
 Mother's Occupation by Birthweight, 2006
 Domiciliary Births

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Birthweight (grams)						Total
	2000–2499	2500–2999	3000–3499	3500–3999	4000–4499	4500 and Over	
Other Agricultural Occupations & Fishermen	0	0	0	2	0	0	2
	0.0	0.0	0.0	100.0	0.0	0.0	100.0
	0.0	0.0	0.0	3.1	0.0	0.0	1.2
Higher Professional	0	0	1	7	1	1	10
	0.0	0.0	10.0	70.0	10.0	10.0	100.0
	0.0	0.0	2.4	10.9	2.4	6.7	5.9
Lower Professional	1	2	15	21	15	6	60
	1.7	3.3	25.0	35.0	25.0	10.0	100.0
	100.0	28.6	35.7	32.8	36.6	40.0	35.3
Employers & Managers	0	1	0	3	0	1	5
	0.0	20.0	0.0	60.0	0.0	20.0	100.0
	0.0	14.3	0.0	4.7	0.0	6.7	2.9
Salaried Employees	0	0	0	2	1	0	3
	0.0	0.0	0.0	66.7	33.3	0.0	100.0
	0.0	0.0	0.0	3.1	2.4	0.0	1.8
Intermediate Non-Manual Workers	0	1	4	5	2	2	14
	0.0	7.1	28.6	35.7	14.3	14.3	100.0
	0.0	14.3	9.5	7.8	4.9	13.3	8.2
Other Non-Manual Workers	0	0	3	6	2	2	13
	0.0	0.0	23.1	46.2	15.4	15.4	100.0
	0.0	0.0	7.1	9.4	4.9	13.3	7.6
Skilled Manual Workers	0	1	3	1	1	0	6
	0.0	16.7	50.0	16.7	16.7	0.0	100.0
	0.0	14.3	7.1	1.6	2.4	0.0	3.5
Unemployed	0	0	1	0	0	0	1
	0.0	0.0	100.0	0.0	0.0	0.0	100.0
	0.0	0.0	2.4	0.0	0.0	0.0	0.6
Not Classifiable	0	0	2	3	3	0	8
	0.0	0.0	25.0	37.5	37.5	0.0	100.0
	0.0	0.0	4.8	4.7	7.3	0.0	4.7
Home Duties	0	2	12	14	16	3	47
	0.0	4.3	25.5	29.8	34.0	6.4	100.0
	0.0	28.6	28.6	21.9	39.0	20.0	27.6
Not Stated	0	0	1	0	0	0	1
	0.0	0.0	100.0	0.0	0.0	0.0	100.0
	0.0	0.0	2.4	0.0	0.0	0.0	0.6
Total	1	7	42	64	41	15	170
	0.6	4.1	24.7	37.6	24.1	8.8	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Notes: 'Not Applicable' is not used in the classification of maternal occupations.

See Appendix C for a description of the classification system for occupations.

Table H6
 Mother's Marital Status by Age of Mother, 2006
 Domiciliary Births

Mother's Marital Status Frequency Row Per Cent Col. Per Cent	Age of Mother							Total
	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 Years and Over	Not Stated	
Married	2	15	52	53	4	1	1	128
	1.6	11.7	40.6	41.4	3.1	0.8	0.8	100.0
	66.7	60.0	83.9	77.9	40.0	100.0	100.0	75.3
Never Married	1	10	10	10	3	0	0	34
	2.9	29.4	29.4	29.4	8.8	0.0	0.0	100.0
	33.3	40.0	16.1	14.7	30.0	0.0	0.0	20.0
Separated	0	0	0	1	1	0	0	2
	0.0	0.0	0.0	50.0	50.0	0.0	0.0	100.0
	0.0	0.0	0.0	1.5	10.0	0.0	0.0	1.2
Divorced	0	0	0	4	2	0	0	6
	0.0	0.0	0.0	66.7	33.3	0.0	0.0	100.0
	0.0	0.0	0.0	5.9	20.0	0.0	0.0	3.5
Total	3	25	62	68	10	1	1	170
	1.8	14.7	36.5	40.0	5.9	0.6	0.6	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Note: Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table H7

Father's Occupation by Infant's Type of Feeding, Live Births, 2006
Domiciliary Births

Father's Occupation Frequency Row Per Cent Col. Per Cent	Type of Feeding			
	Artificial	Breast	Combined	Total
Farmers & Farm Managers	0 0.0 0.0	4 100.0 2.4	0 0.0 0.0	4 100.0 2.4
Other Agricultural Occupations & Fishermen	0 0.0 0.0	4 100.0 2.4	0 0.0 0.0	4 100.0 2.4
Higher Professional	0 0.0 0.0	27 100.0 16.4	0 0.0 0.0	27 100.0 15.9
Lower Professional	1 3.3 33.3	28 93.3 17.0	1 3.3 50.0	30 100.0 17.6
Employers & Managers	0 0.0 0.0	16 100.0 9.7	0 0.0 0.0	16 100.0 9.4
Salaried Employees	0 0.0 0.0	5 100.0 3.0	0 0.0 0.0	5 100.0 2.9
Intermediate Non-Manual Workers	1 7.1 33.3	13 92.9 7.9	0 0.0 0.0	14 100.0 8.2
Other Non-Manual Workers	0 0.0 0.0	13 100.0 7.9	0 0.0 0.0	13 100.0 7.6
Skilled Manual Workers	1 2.3 33.3	42 97.7 25.5	0 0.0 0.0	43 100.0 25.3
Semi-Skilled Manual Workers	0 0.0 0.0	2 66.7 1.2	1 33.3 50.0	3 100.0 1.8
Unemployed	0 0.0 0.0	1 100.0 0.6	0 0.0 0.0	1 100.0 0.6
Not Classifiable	0 0.0 0.0	5 100.0 3.0	0 0.0 0.0	5 100.0 2.9
Not Applicable	0 0.0 0.0	2 100.0 1.2	0 0.0 0.0	2 100.0 1.2
Home Duties	0 0.0 0.0	3 100.0 1.8	0 0.0 0.0	3 100.0 1.8
Total	3 1.8 100.0	165 97.1 100.0	2 1.2 100.0	170 100.0 100.0

Note: See Appendix C for a description of the classification system for occupations.

Table H8
 Mother's Occupation by Infant's Type of Feeding, Live Births, 2006
 Domiciliary Births

Mother's Occupation Frequency Row Per Cent Col. Per Cent	Type of Feeding			
	Artificial	Breast	Combined	Total
Other Agricultural Occupations & Fishermen	0	2	0	2
	0.0	100.0	0.0	100.0
	0.0	1.2	0.0	1.2
Higher Professional	0	10	0	10
	0.0	100.0	0.0	100.0
	0.0	6.1	0.0	5.9
Lower Professional	1	59	0	60
	1.7	98.3	0.0	100.0
	33.3	35.8	0.0	35.3
Employers & Managers	1	3	1	5
	20.0	60.0	20.0	100.0
	33.3	1.8	50.0	2.9
Salaried Employees	0	3	0	3
	0.0	100.0	0.0	100.0
	0.0	1.8	0.0	1.8
Intermediate Non- Manual Workers	0	13	1	14
	0.0	92.9	7.1	100.0
	0.0	7.9	50.0	8.2
Other Non-Manual Workers	0	13	0	13
	0.0	100.0	0.0	100.0
	0.0	7.9	0.0	7.6
Skilled Manual Workers	0	6	0	6
	0.0	100.0	0.0	100.0
	0.0	3.6	0.0	3.5
Unemployed	0	1	0	1
	0.0	100.0	0.0	100.0
	0.0	0.6	0.0	0.6
Not Classifiable	0	8	0	8
	0.0	100.0	0.0	100.0
	0.0	4.8	0.0	4.7
Home Duties	1	46	0	47
	2.1	97.9	0.0	100.0
	33.3	27.9	0.0	27.6
Not Stated	0	1	0	1
	0.0	100.0	0.0	100.0
	0.0	0.6	0.0	0.6
Total	3	165	2	170
	1.8	97.1	1.2	100.0
	100.0	100.0	100.0	100.0

Notes: 'Not Applicable' is not used in the classification of maternal occupations.

See Appendix C for a description of the classification system for occupations.

Appendix I

Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy

Gestational age at time of first visit to doctor or hospital during pregnancy is calculated using the following formula:

$$\text{GestVis} = \text{HospDoc} - (\text{InfDOB} - (\text{Gestat} * 7))$$

GestVis = gestational age at date of the first visit to doctor or hospital during pregnancy.

HospDoc = first antenatal visit date (either doctor or hospital, whichever is sooner).

InfDOB = infant's date of birth.

Gestat*7 = gestation at delivery in days.

The initial calculation produces a period measured in days, which is then converted into weeks for reporting.

The format of each cross-tabulation is identical. The values of the two variables are given along the top row and left-hand side column. The top number in each cell indicates the number of observations relating to that combination of variable values. The second number indicates the percentage contribution of that cell to the total for the whole row. The last number indicates the percentage contribution of that cell to the total for the whole column. The figures at the end of each row or column give the overall total for that row or column, and the associated percentages express each of these figures as a percentage of the grand total.

Caution should be exercised in interpreting the data on timing of first visit to health services because this may reflect date of the first hospital visit, even though this is likely to have been later than the first visit to the health services. This is due to a high proportion of cases recording date of first visit to the doctor as 'not known'. See also Section 1, Completeness and Reliability.

Table 11
 Time of First Visit to Doctor or Hospital During Pregnancy
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Singleton Births

Time of First Visit (weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0–12	33,558	52.8	122	3.6	57	1.7	5.3	4.0
13–19	20,873	32.8	97	4.6	31	1.5	6.1	4.5
20 and over	6,656	10.5	47	7.0	29	4.4	11.3	8.1
Not Stated	2,468	3.9	18	7.2	12	4.9	12.1	8.9
Total	63,555	100	284	4.4	129	2.0	6.5	4.8

Table 12
 Time of First Visit to Doctor or Hospital During Pregnancy
 Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates, 2006
 Multiple Births

Time of First Visit (weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Mortality Rate	Perinatal Mortality Rate	Adjusted PMR
0–12	1,039	53.4	11	10.5	14	13.5	23.8	20.1
13–19	597	30.7	11	18.1	4	6.7	24.7	21.5
20 and over	218	11.2	2	9.1	3	13.8	22.7	18.3
Not Stated	93	4.8	0	0.0	2	21.5	21.5	10.9
Total	1,947	100	24	12.2	23	11.8	23.8	19.9

Table I3

Mother's Marital Status by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy, Live Births and Stillbirths, 2006
Singleton Births

Mother's Marital Status Frequency Row Per Cent Col. Per Cent	Gestational Age at First Visit (weeks)				
	0-12	13-19	20 and over	Not Stated	Total
Married	23,325	13,401	3,619	2,080	42,425
	55.0	31.6	8.5	4.9	100.0
	69.3	63.9	54.0	83.7	66.5
Never Married	9,803	7,171	2,866	374	20,214
	48.5	35.5	14.2	1.9	100.0
	29.1	34.2	42.8	15.0	31.7
Widowed	58	23	21	1	103
	56.3	22.3	20.4	1.0	100.0
	0.2	0.1	0.3	0.0	0.2
Separated	308	240	124	24	696
	44.3	34.5	17.8	3.5	100.0
	0.9	1.1	1.9	1.0	1.1
Divorced	170	123	67	5	365
	46.6	33.7	18.4	1.4	100.0
	0.5	0.6	1.0	0.2	0.6
Not Stated	16	12	6	2	36
	44.4	33.3	16.7	5.6	100.0
	0.0	0.1	0.1	0.1	0.1
Total	33,680	20,970	6,703	2,486	63,839
	52.8	32.8	10.5	3.9	100.0
	100.0	100.0	100.0	100.0	100.0

Note: Data recording marital status as 'never married' are classified as 'single' marital status in this report.

Table 14

Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy, Live Births and Stillbirths, 2006
Singleton Births

Interval Since Last Birth Frequency Row Per Cent Col. Per Cent	Gestational Age at First Visit (weeks)				
	0-12	13-19	20 and over	Not Stated	Total
No previous births	14,095	8,499	2,722	974	26,290
	53.6	32.3	10.4	3.7	100.0
	41.8	40.5	40.6	39.2	41.2
1 year or less	225	168	123	21	537
	41.9	31.3	22.9	3.9	100.0
	0.7	0.8	1.8	0.8	0.8
>1 year to 2 years	4,447	2,929	1,175	371	8,922
	49.8	32.8	13.2	4.2	100.0
	13.2	14.0	17.5	14.9	14.0
>2 years to 3 years	5,062	3,092	941	391	9,486
	53.4	32.6	9.9	4.1	100.0
	15.0	14.7	14.0	15.7	14.9
>3 years to 4 years	3,303	2,072	506	242	6,123
	53.9	33.8	8.3	4.0	100.0
	9.8	9.9	7.6	9.7	9.6
>4 years to 5 years	1,957	1,220	329	130	3,636
	53.8	33.6	9.1	3.6	100.0
	5.8	5.8	4.9	5.2	5.7
>5 years to 6 years	1,245	842	224	69	2,380
	52.3	35.4	9.4	2.9	100.0
	3.7	4.0	3.3	2.8	3.7
More than 6 years	3,146	2,063	632	169	6,010
	52.3	34.3	10.5	2.8	100.0
	9.3	9.8	9.4	6.8	9.4
Number of previous births unknown	0	4	0	1	5
	0.0	80.0	0.0	20.0	100.0
	0.0	0.0	0.0	0.0	0.0
Not Stated	200	81	51	118	450
	44.4	18.0	11.3	26.2	100.0
	0.6	0.4	0.8	4.8	0.7
Total	33,680	20,970	6,703	2,486	63,839
	52.8	32.8	10.5	3.9	100.0
	100.0	100.0	100.0	100.0	100.0



www.esri.ie

Health Research and Information Division

Whitaker Square
Sir John Rogerson's Quay
Dublin 2

Telephone +353 1 8632000
Fax +353 1 8632100
email: admin@esri.ie

December 2008

ISBN: 978 0 7070 0275 3