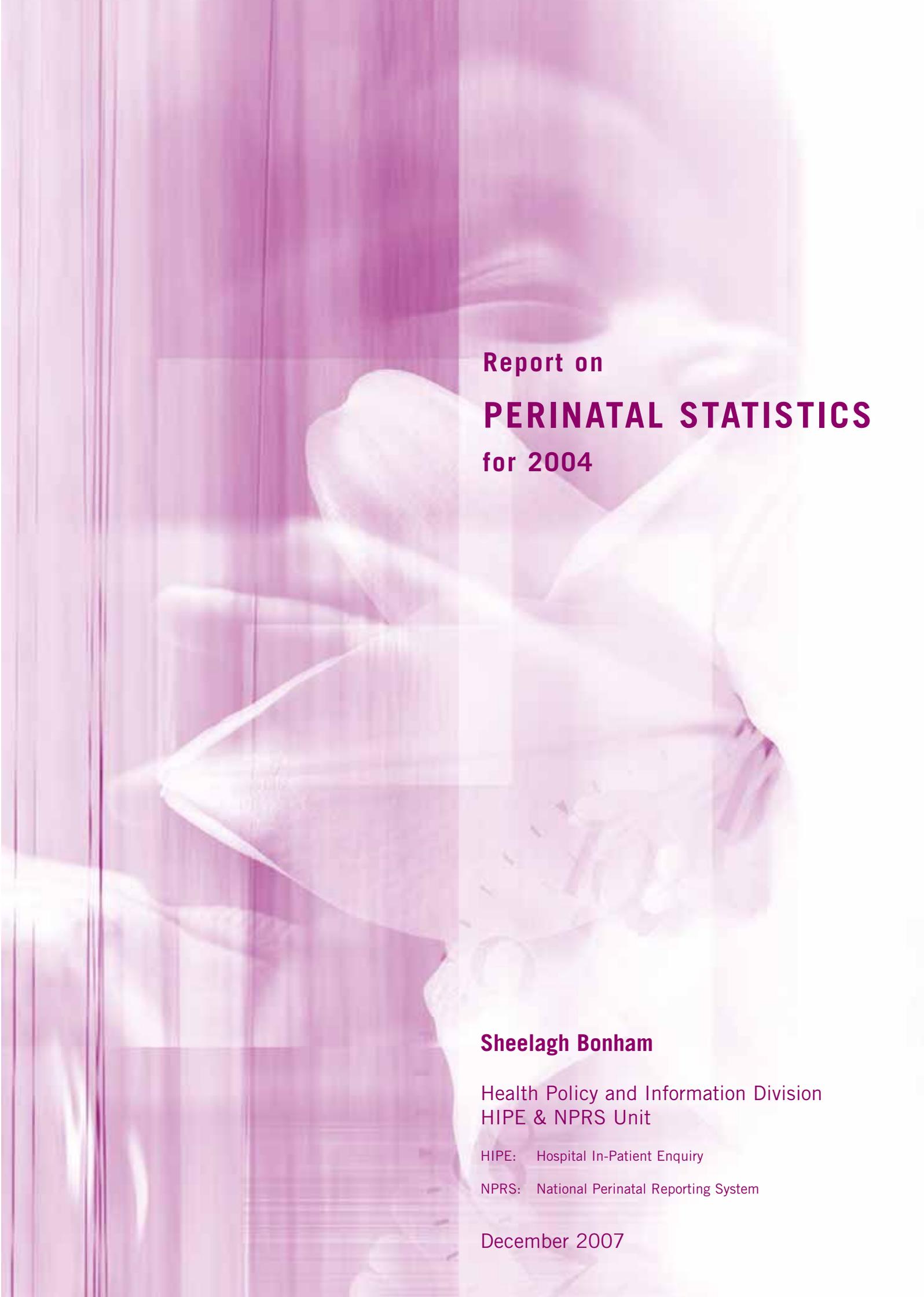


Report on
PERINATAL STATISTICS
for 2004

Health Policy and Information Division

December 2007





Report on
PERINATAL STATISTICS
for 2004

Sheelagh Bonham

Health Policy and Information Division
HIPE & NPRS Unit

HIPE: Hospital In-Patient Enquiry

NPRS: National Perinatal Reporting System

December 2007

Acknowledgements

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Data on 62,406 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 information was compiled and validated by the National Perinatal Reporting System (NPRS) within the Health Policy and Information Division at The Economic and Social Research Institute to create a national database which has been analysed for the production of this report of perinatal events.

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Sheelagh Bonham

National Perinatal Reporting System Manager, ESRI

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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 2004. In addition, descriptive social and biological characteristics of mothers giving birth and babies born in 2004 are recorded. The introduction to this report (Section 1) discusses general trends and international comparisons in relation to fertility and perinatal mortality. Section 2 reports on selected statistics (see Table 2.2) and some of the more significant trends are highlighted below.

In 2004, 62,406 births were notified to the NPRS, an increase of 0.7 per cent since 2003 and 13.1 per cent since 2000. Of these, 339 were stillbirths giving a stillbirth rate of 5.4 per 1,000 live and still births in 2004. The stillbirth rate was slightly higher in previous years: 5.8 per 1,000 live and still births in 2003 and 5.6 per 1,000 live and still births in 2000. There were 168 early neonatal deaths resulting in an early neonatal death rate of 2.7 per 1,000 live births in 2004. This rate represents a decrease of 0.2 per 1,000 live births from 2003 (early neonatal death rate of 2.9 per 1,000 live births), and is 0.5 per 1,000 live births lower from the rate reported in 2000 of 3.2 per 1,000 live births. The perinatal mortality rate was 8.1 per 1,000 live and still births in 2004, a decrease of 0.5 per 1,000 from 2003 (perinatal mortality rate of 8.6 per 1,000 live and still births). The 2004 perinatal mortality rate was also lower than that reported in 2000 (8.8 per 1,000 live and still births).

The average birthweight of babies born in 2004 was estimated at 3,477 grams, virtually no change from 2003. Average gestational age at delivery in 2004 of 39.4 weeks remained fairly constant since 2000. Low birthweight babies (weighing less than 2,500 grams) accounted for 5.0 per cent of all births in 2004, a slight increase from 4.9 per cent in 2000. The twinning rate for 2004 was 15.0 per 1,000 maternities, and comprised 924 twin births, 18 triplet births and 1 quadruplet birth.

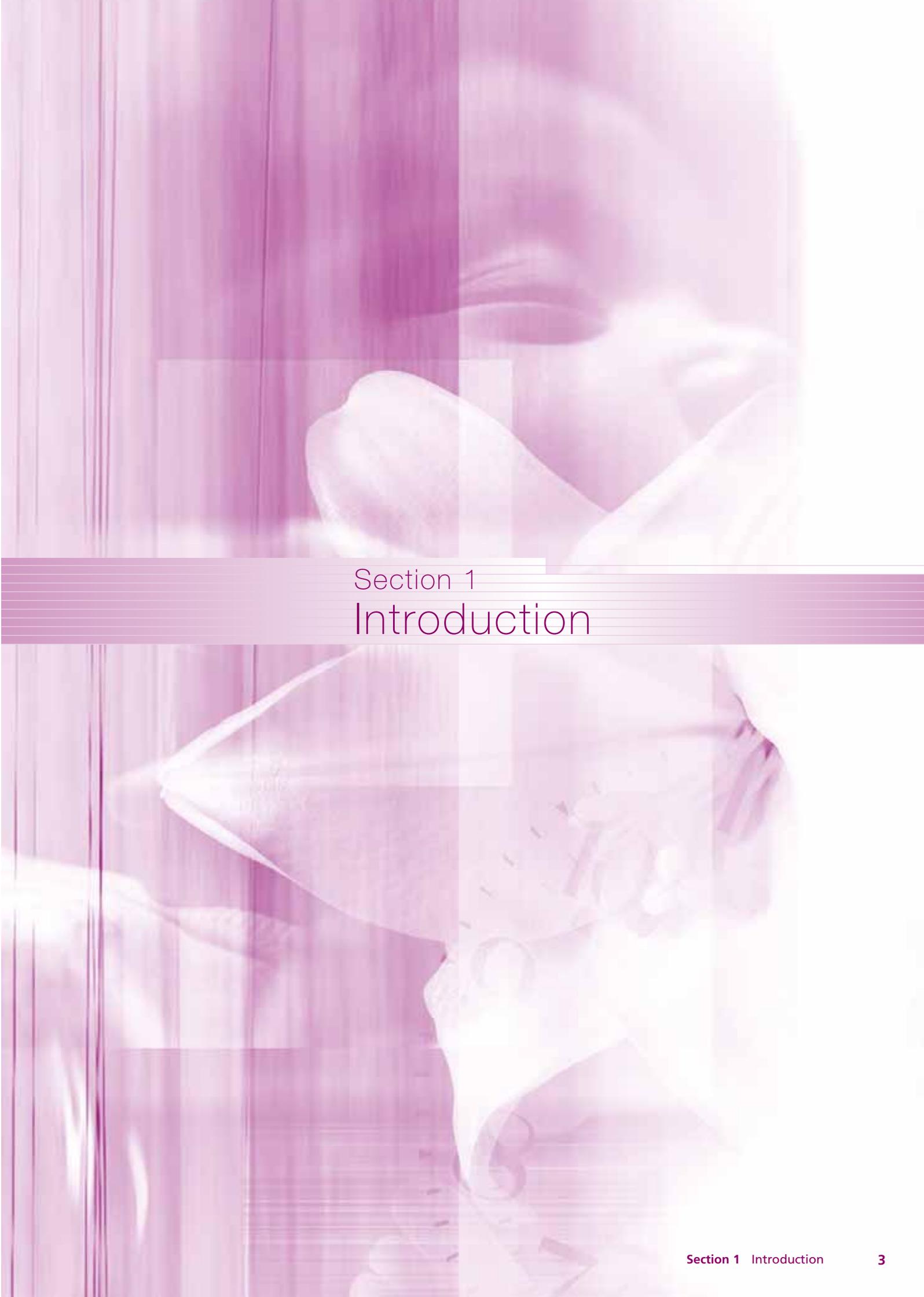
In 2004, single mothers accounted for 30.6 per cent of all women giving birth, which has remained relatively stable over the five-year period since 2000. Mother's average age increased slightly from 30.1 years in 2000 to 30.8 years in 2004. There has also been a small increase in the average age of single mothers, which was just under 25 years in 2000 and just over 26 years in 2004. The average maternal parity fell slightly from 1.09 previous births in 2000 to 1.05 in 2004. The trend in the breastfeeding rate continues to be upward at 42.5 per cent of maternities with live births in 2004, compared with 41.3 per cent in 2003.

The number of home births attended by independent domiciliary midwives decreased in 2004 compared to previous years, (202 in 2004 compared to 236 in 2003 – a decrease of 14.4 per cent in 2004 relative to the previous year). Over the period 2000 to 2004 the number of births attended by independent domiciliary midwives fell by 6.5 per cent (from 216 in 2000 to 202 in 2004).

Delivery by caesarean section was estimated at 25.2 per cent of all live births in 2004, compared with 24.2 per cent in 2003 and 21.3 per cent in 2000. In 2004, 24.2 per cent of singleton births were delivered by caesarean section, an increase of 1.1 percentage points from 2003. The 2004 caesarean section rate for singleton births also exceeded that reported in 2000 (20.6 per cent of all live singleton births). The percentage of multiple births delivered by caesarean section in 2004 was 55.8 per cent, a decrease of 2.5 percentage points from 2003 but over 5 percentage points higher than that reported in 2000. The proportion of all births delivered by caesarean section in 2004 increased by 3.9 percentage points relative to that estimated for 2000.

Average lengths of stay for both mother and infant continued to decline in 2004. Infant's length of stay decreased from an average of 4.3 days in 2000 to 3.8 days in 2004, while mother's average total length of stay fell from 4.5 days in 2000 to 3.9 days in 2004.

The proportion of early neonatal deaths undergoing post-mortem examinations fell from 44.4 per cent in 1999 to 33.6 per cent in 2001. This estimate increased to 42.1 per cent in 2002 but fell to 41.7 per cent for 2003 and 38.2 per cent in 2004.



Section 1
Introduction

Section 1 Introduction

Aims

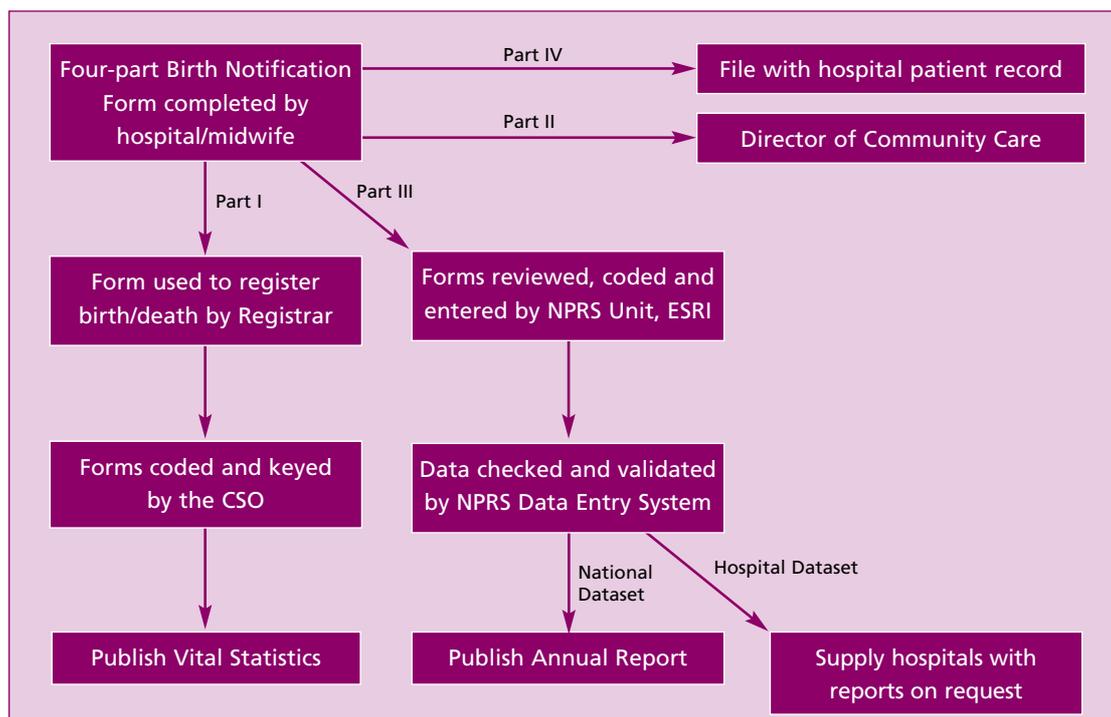
This report of the National Perinatal Reporting System (NPRS) has as its principal aim the provision of national statistics on perinatal events for the year 2004. More specifically, the report aims to describe the fundamental social and biological characteristics of mothers and their babies, to report 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 a minimum national data set and is intended to serve as a foundation for the development of basic time series analyses and to allow for the possible addition of further variables and more extensive analysis in future years. In mid-2003 the birth notification form was revised to facilitate a number of new fields that were required by the General Register Office (part 1) for birth registrations. These changes have resulted in the collection of two new variables, nationality and country of residence for both the mother and father, by the NPRS. These variables appear for the first time in this report for 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. 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).

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 on the care received goes to the Director of Community Care and 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 health boards. The third part of the form has all identifying information deleted and is sent to the NPRS Unit 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 the present 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 logically grouped into demographic, clinical and administrative data. The data collected by the NPRS for 2004 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; mother's obstetric history;
 - 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 or still);
 - 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). Diseases and cause of death are coded using the ninth revision of the International Classification of Diseases (ICD) and according to the guidelines set out by the World Health Organisation (see Appendix D). On completion of data entry, the NPRS Unit in The Health Policy and Information Division at the ESRI undertakes checks for data coverage and validation.

Format and Contents

This report presents a set of national tabulations for perinatal events for 2004 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 1999-2004. Section 3 contains tables relating to the following variables: maternal age; parity; marital status; socio-economic group of mother; socio-economic group of father; distribution of previous stillbirths; birthweight (by sex); twinning rate; gestational age; interval since last birth and month of birth; nationality of mother and father.

Section 4 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 stay; length of mother's 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, 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 National Perinatal Reporting System covers all live births and stillbirths occurring in Ireland. However, there are differences in the vital statistics published by the Central Statistics Office 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. 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.

Two new variables, nationality and country of residence for both the mother and father, were introduced in May 2003. Analysis of father and mother's nationality is included in this report. Father's nationality is missing for 16.7 per cent of all births where mother's marital status is recorded as married.¹ Mother's nationality is missing for 2.9 per cent of all births. Father's date of birth and mother's occupation were included for the first time in the report for 1999. For 2004, father's date of birth is missing for 10.8 per cent of births where mother's marital status is married. Missing values for mother's occupation remain very low as just 1.0 per cent of births in 2004 did not have this information recorded.

The majority of variables are close to complete in the 2004 dataset with 'gestational age at delivery' and 'infant's birthweight' missing for only 26 records. 'Method of delivery' was missing for 20 records while information on 'age at death' for early neonatal deaths has been recorded as 'unknown' for just 5 records. While information on 'time of first visit to doctor or hospital during pregnancy' has also improved, this was not recorded for 4.7 per cent of births in 2004. Infant's length of stay is missing for 0.1 per cent of records. 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.

Where 'antenatal care this pregnancy' is indicated as 'combined care', it is expected that the dates of first visit to each health professional is recorded. While over 77 per cent of all births in 2004 were recorded as receiving combined antenatal care, over 43 per cent of these births recorded 'date of first

¹ It should be noted that where a mother's marital status is 'never married', 'widowed', 'separated' or 'divorced' the General Register Office (GRO) does not require father's details to register the birth. This information, therefore, is generally not provided in these circumstances.

visit to doctor' as 'not known'. The absence of these data regrettably 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 mother's attending antenatal care during the first 12 weeks is, therefore, estimated at around 47 per cent of all births, which is low by European standards.

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 validating this information, mother's area of residence has been analysed at health board² 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. A key issue in addressing the quality of data collected by the NPRS are differences arising between the vital statistics tables compiled by the CSO and the NPRS data. Differences in data reported by these two systems for perinatal events may arise for a variety of reasons. One reason for differences is that information is not always obtained from the same sources. This is particularly evident in the data for cause of death as the CSO and the NPRS have to use different sources for the compilation of these data. The CSO does not obtain information on maternal diseases or conditions affecting the foetus or infant while the NPRS does not have access to coroner's certificates relating to neonatal deaths. The CSO also uses a separate notification form (Form 103) for collecting information on late foetal deaths.

Different data sources are also a factor in explaining why there are differences in the rate of stillbirth reported by the CSO and the NPRS. In 1995, stillbirths were registered in Ireland for the first time under the Stillbirths Registration Act, 1994. The CSO collect these data using Part 1 of the birth notification form sent to the General Register Office (GRO), while the NPRS collect them using Part 3 of the birth notification form. The CSO defines a stillbirth as weighing at or over 500 grams and/or at a gestational age of 24 weeks or more. From 1995 onwards, this definition applies to a late foetal death. In accordance with the World Health Organisation's (WHO) definition of a stillbirth, the NPRS includes all late foetal deaths weighing at least 500 grams, irrespective of gestational age. In 2004, the NPRS recorded a higher number of stillbirths than the CSO. Applying the CSO's definition of a stillbirth, the number of stillbirths recorded by the NPRS would be estimated at 372 stillbirths. The CSO, however, reports 321 stillbirths indicating that in 2004 a number of stillbirths were notified to NPRS but not registered to the GRO. When we apply the WHO definition of a stillbirth to the data collected by the NPRS, the number of stillbirths recorded by the NPRS is estimated at 339. In accordance with WHO guidelines, only these 339 stillbirths are included in the NPRS dataset for this report. Differences in the definitions of stillbirth used by the CSO and the WHO are, therefore, an important factor in understanding differences in the stillbirth numbers and rates and the perinatal mortality rate reported by the CSO and the NPRS.

The gap between the twinning rate calculated by the CSO and the NPRS is very narrow. For 2004 the CSO report a twinning rate of 16.0 per 1,000 maternities and the NPRS report a twinning rate of 15.0 per 1,000 maternities. The NPRS dataset 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 are removed from the national dataset. Any birth/s weighing

² As defined in 2004.

over 500 grams in the multiple birth set are retained in the national dataset as a multiple birth/s. To clarify using an example: 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 dataset and twin 2 remains in the national dataset and is recorded as the second twin of a multiple birth. This may result in incomplete sets of multiple births in the national dataset and a lower number of multiple births recorded for reporting purposes (see also Table 3.16). 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 ensures a more comprehensive estimate of the number of multiple births.

Finally, differences in coding procedures may be reflected in the published statistics. The International Classification of Disease (ICD) coding procedures are recognised as being particularly difficult in the area of causes of perinatal mortality and the current separate coding arrangements between the CSO and the NPRS may, therefore, lead to significant discrepancies.

Ideally, the data sources and coding for reporting on perinatal events should be harmonised between the CSO and the NPRS. Currently, representatives of both systems, together with the Department of Health and Children are in the process of putting procedures in place towards the achievement of this objective. The computerisation of the birth registration system represents an important step in this process, as this will eliminate the duplication of paperwork, coding and validation procedures. The GRO began its national roll-out for the computerisation of birth registration in September 2003. This covers the registration information collected on the top copy of the birth notification form and future phases of the computerisation programme are intended to include all statistical data.

Pending the completion of the full scale programme of computerisation, developments are underway between the CSO and the NPRS to put in place a system of downloading the computerised information that is currently available and linking it electronically with the statistical data captured in Part 3 of the form. Commencing with 2005 data, this will assist in ensuring the correct identification of all births by both the CSO and the NPRS and reduce duplication of effort in keying registered data, thereby improving data quality. Because the data for Part 3 of the form still has to be keyed centrally, the HIPE & NPRS Unit at the Health Policy and Information Division at the ESRI have developed an in-house data entry system whereby notifications of births from January 1, 2004 are coded and entered directly onto the NPRS as they are received. This system validates the information received on each form at the point of data entry.

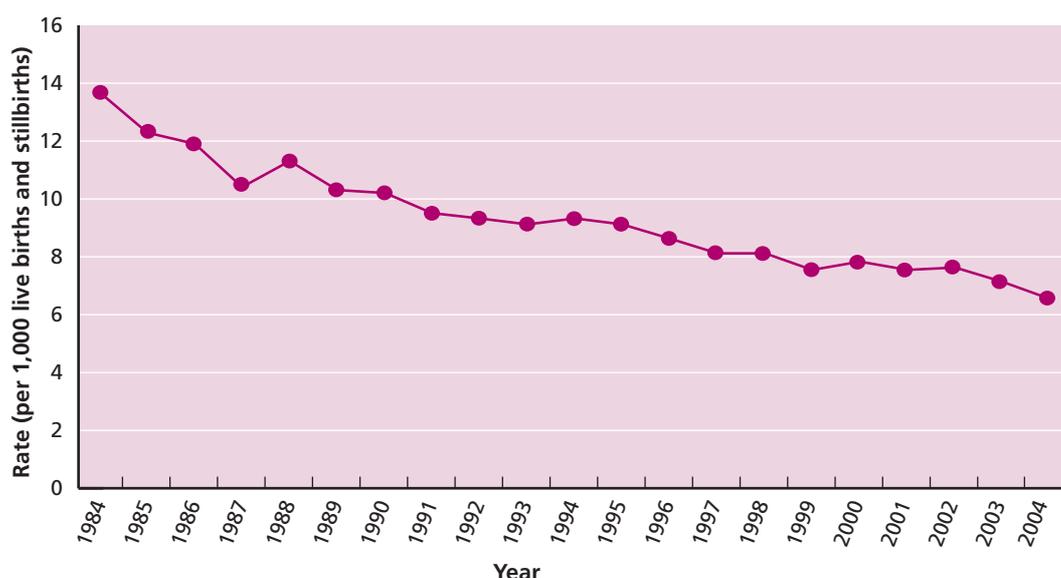
A parallel development aimed at improving the timeliness of data reporting and data quality are initiatives aimed at the electronic transfer of data directly from hospitals. Currently, data in electronic format are being received by the NPRS from the Rotunda, Coombe and National Maternity Hospitals, and it is hoped to expand this development to other hospitals with similar systems capability. Notwithstanding these advancements in the computerisation of data collection and validation, we continue to rely on midwives and hospital staff to provide accurate and up-to-date data to the NPRS. The new instruction manual to facilitate completion of BNF01/2003 which was issued in May 2003 and updated in September 2006, details the requirements for completion of each field and is intended as an additional aid to personnel completing the returns. The continued development of computerised registration and notification and electronic data transfer are, however, an essential prerequisite to the achievement of the NPRS goal of delivering optimum data quality, timeliness and comprehensive coverage.

General Trends and International Comparisons³

Perinatal Mortality

Recent decades have witnessed a substantial decline in infant, neonatal and perinatal mortality in Ireland. Figure 1.2 shows the perinatal mortality rate in Ireland from 1984-2004. These rates are based on the national statistics compiled by the CSO. Between 1965 and 1985 the perinatal mortality rate fell by more than half from 30 deaths per 1,000 live births and stillbirths to 12.3 per 1,000 live births and stillbirths. The rate continued to decline in 1986 and 1987 to 10.4 per 1,000 live births and stillbirths and rose slightly in 1988 to 11.3 per 1,000 live births and stillbirths. From 1989 the rate declined relatively steadily from 10.3 per 1,000 live births and stillbirths to a low of 7.5 per 1,000 live births and stillbirths in 1999.⁴ For 2000, the perinatal mortality rate increased marginally to 7.8 per 1,000 live births and stillbirths, resuming its decline once again in 2001 and 2002 to respectively 7.5 and 7.6 per 1,000 live births and stillbirths. The perinatal mortality rate is reported at 7.1 per 1,000 live births and stillbirths for 2003, declining further again to 6.5 per 1,000 live births and stillbirths in 2004.

Figure 1.2
Perinatal Mortality Rate, Ireland: 1984-2004



Source: Report on *Vital Statistics, 2004*, Central Statistics Office, Dublin.

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 in this report indicate levels of perinatal mortality for the principal variables associated with risk.

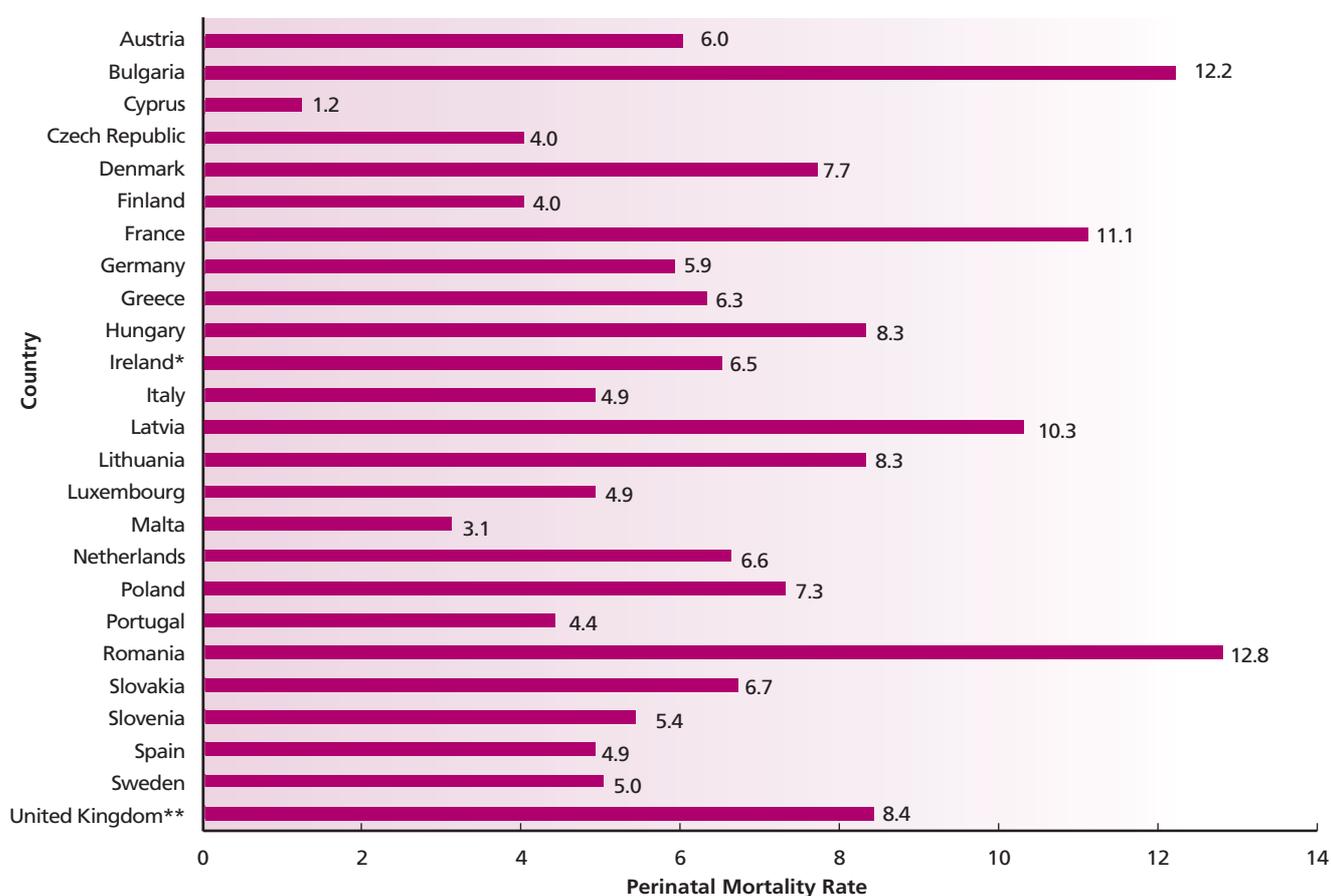
³ National figures presented in this section are based on official registration data as compiled by the Central Statistics Office. These figures may differ somewhat from numbers and rates appearing in the tables of this report for reasons given in the previous section.

Where the data are available, European Union (EU) comparisons are based on EU membership at the time of publication of this report (i.e. twenty-seven countries).

⁴ In 1995 a revised definition of stillbirths was employed by the CSO. This new definition included stillbirths at or over 500 grams or at a gestational age of 24 weeks or more. The data presented here are based on the previous definition of a stillbirth (at or over 28 weeks gestation) to facilitate comparisons over time.

Ireland's standing in relation to other countries in the European Union (EU) is shown in Figure 1.3. For the twenty-five countries for which data for 2004 are available from the Eurostat database the highest perinatal mortality rates are recorded for Bulgaria and Romania in excess of 12.0 per 1,000, while the country with the lowest perinatal mortality rate is Cyprus at 1.2 per 1,000. With a rate of 6.5 per 1,000 Ireland ranks 14th of the 25 countries listed in Figure 1.3. Ireland's ranking contrasts with a ranking of 21 for the United Kingdom, with a perinatal mortality rate of 8.4 per 1,000 and a ranking of 23 for France, with a perinatal mortality rate of 11.1 per 1,000. 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 Rate, 2004 for Selected EU Countries



Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted November 2007.
<http://epp.eurostat.ec.eu.int>

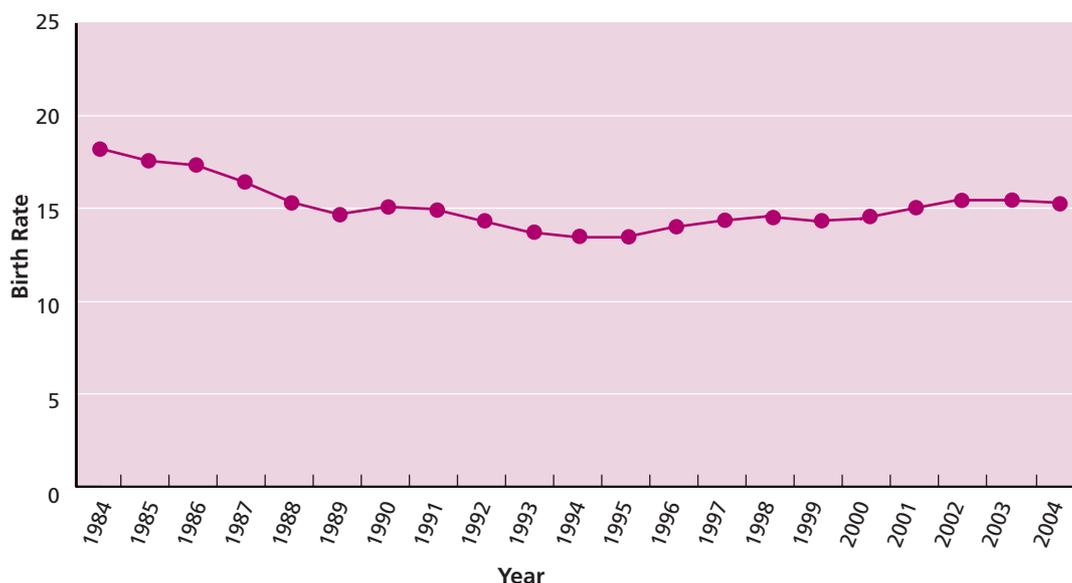
*National Figure compiled by the Central Statistics Office, Report on *Vital Statistics, 2004*

** Source: Office for National Statistics, *Health Statistics Quarterly 36*, Winter 2007

Birth Rate

Data for births per 1,000 population over the past twenty years illustrate an overall reduction in the crude birth rate of 16 per cent since 1984. From 1984, the birth rate steadily declined from 18.2 per 1,000 population to 14.8 per 1,000 population in 1989. It then rose slightly in 1990 to 15.1 per 1,000 population and then resumed the downward trend to reach an all time low of 13.5 per 1,000 population in 1994. Since 1995 the birth rate has gradually increased to 14.6 per 1,000 population in 1998, and then remained stable at 14.5 per 1,000 population until 2000. In 2001, the birth rate increased to 15.0 per 1,000 population and for 2002 and 2003 had further increased to 15.5 per 1,000 population. For 2004 the birth rate has decreased slightly to 15.3 per 1,000 population. This represents a return to the rates experienced in the late 1980s and early 1990s (Figure 1.4).

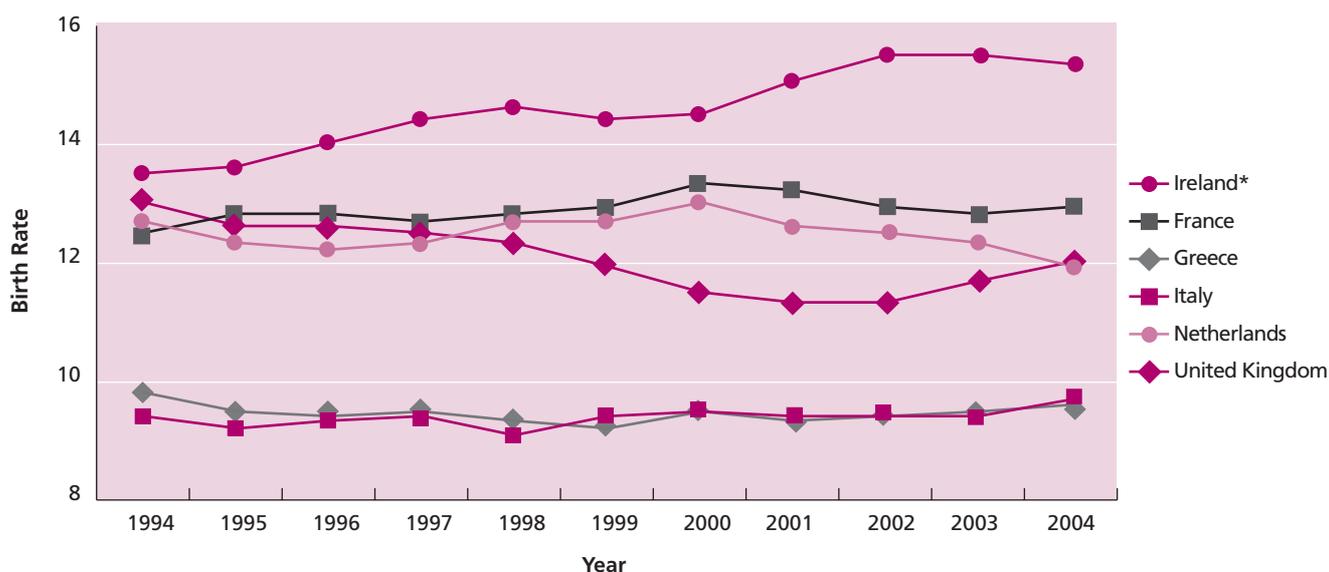
Figure 1.4
Birth Rate per 1,000 Population, Ireland: 1984-2004



Source: Reports on *Vital Statistics, 1984-2004*, Central Statistics Office.

Figure 1.5 shows trends in birth rates for selected EU countries in the last decade. 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 around 1994 and 1995, since 2000 the gap has grown between Ireland and France, the European country closest to Ireland in terms of birth rates. At 15.3 per 1,000 population in 2004, Ireland continues to have the highest birth rate of any of the twenty-seven EU countries.

Figure 1.5
Trends in Birth Rates for Selected EU Countries: 1994-2004



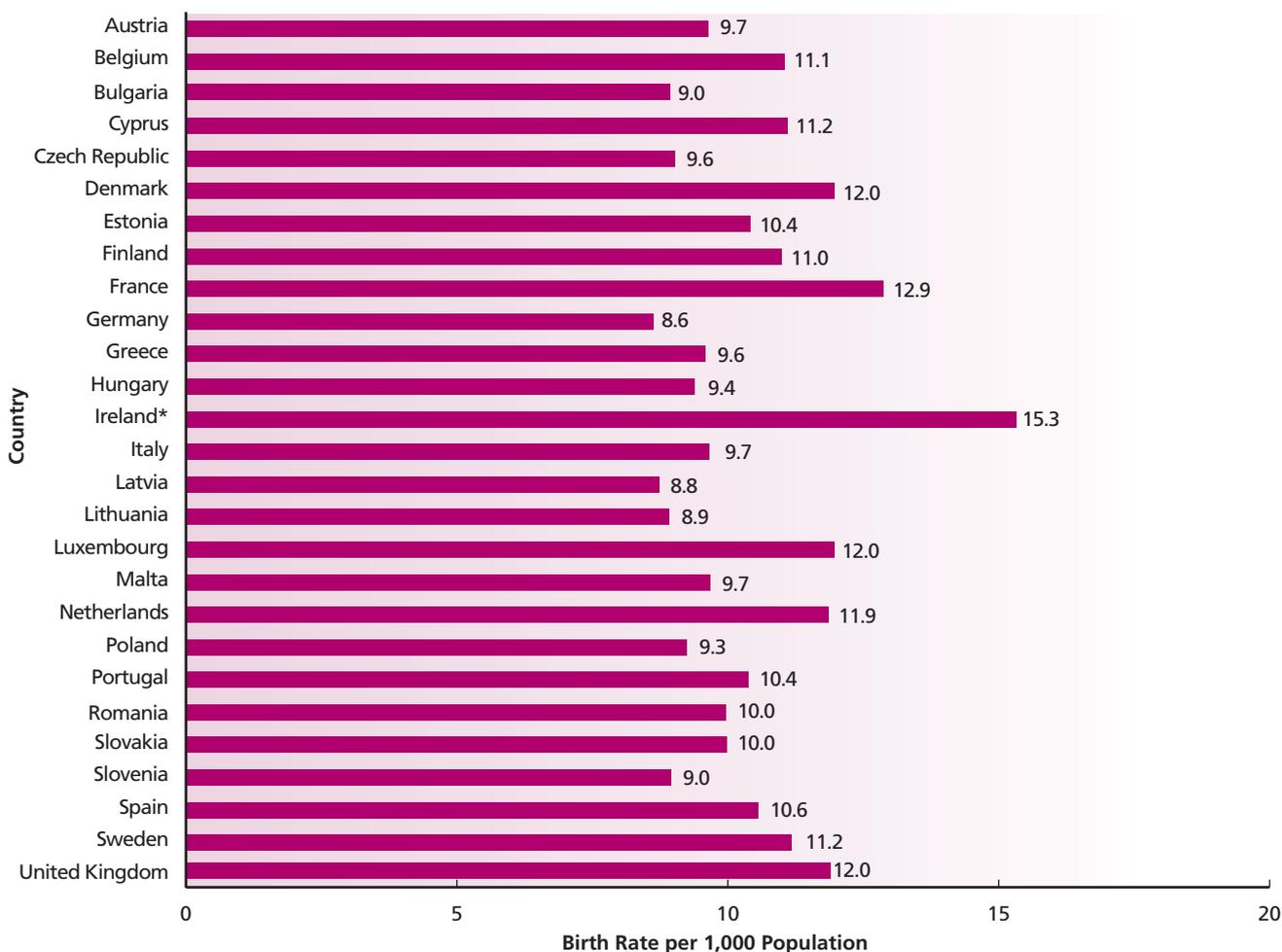
Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted January 2007.

<http://epp.eurostat.ec.europa.eu>

*National figures. Report on *Vital Statistics, 2004* Central Statistics Office.

Figure 1.6 presents the birth rate per 1,000 population for EU countries in 2004. Apart from Ireland (15.3), the country with the next highest birth rate is France (12.9) followed by Denmark, Luxembourg and the United Kingdom (12.0). In 2004 Germany (8.6) and Latvia (8.8) had the lowest birth rate followed by Lithuania (8.9).

Figure 1.6
Birth Rate per 1,000 Population for EU Countries: 2004



Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted January 2007.
<http://epp.eurostat.ec.europa.eu>

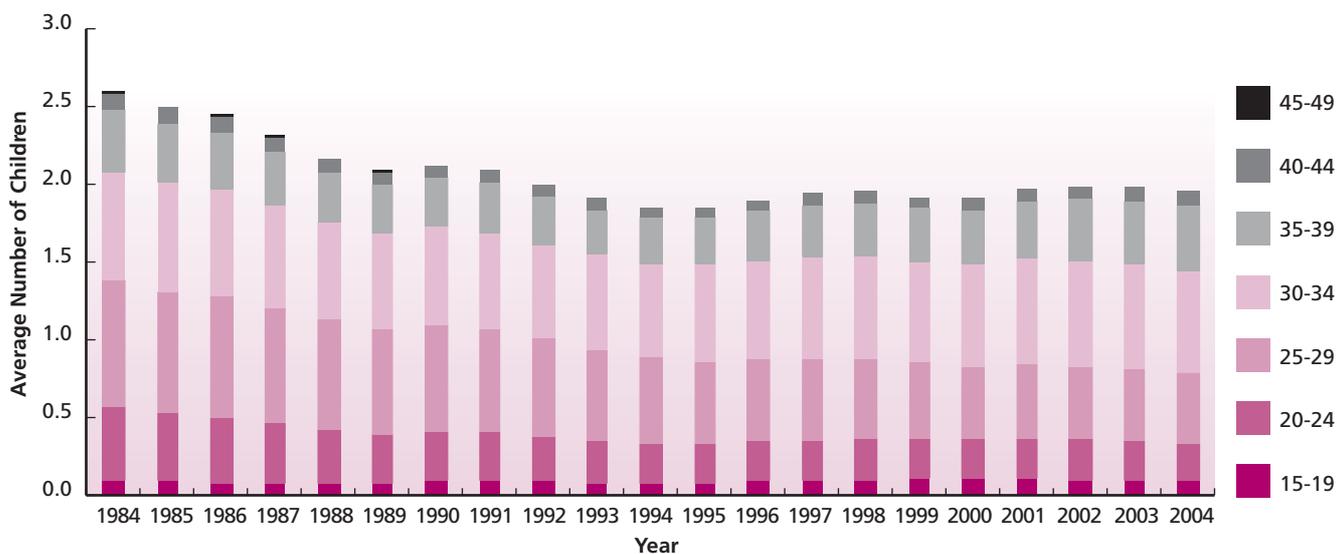
*National figures. Report on *Vital Statistics, 2004*, Central Statistics Office.

It should be noted that the crude birth rate could rise or fall depending on the numbers of women in the age cohorts from 15-49 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

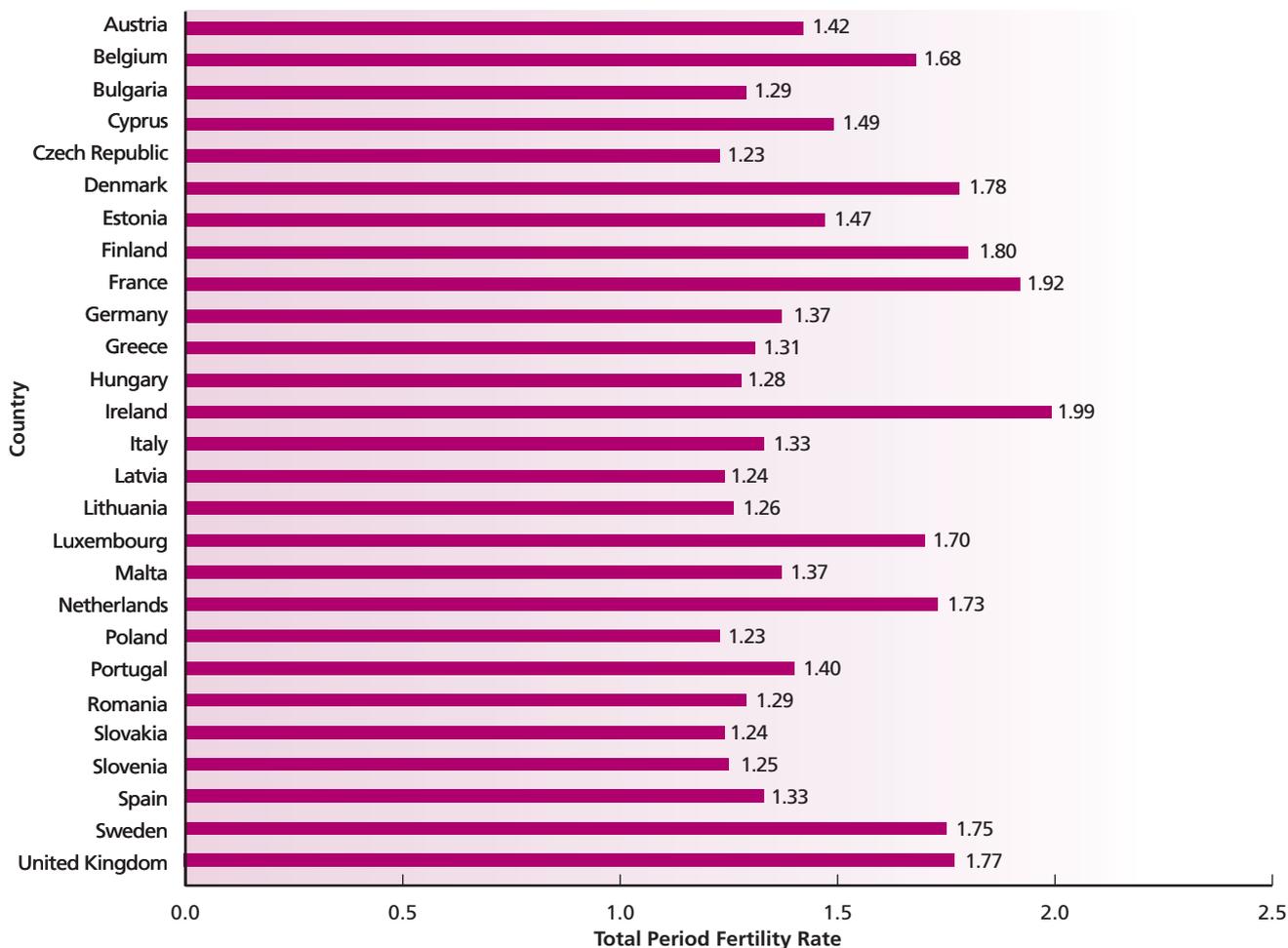
Figure 1.7 shows the trend in the Total Period Fertility Rate (TPFR) in Ireland over the past twenty years. The TPFR for a given year indicates the number of children a woman could expect to have if the age specific fertility rates for that year applied throughout her fertile years. The Irish TPFR has declined from an average of 2.59 in 1984 to 1.95 in 2004, representing a decrease of 25 per cent over the period. By 1994 and 1995 the Irish TPFR reached a low of 1.85 but increased again during the latter half of the 1990s. The rise in the crude birth rate over this period was largely accounted for by the increasing numbers of women in the childbearing age groups. As in all twenty-seven EU countries currently, the TPFR for Ireland remains below the level required for the long-term replacement of the population (TPFR of 2.1 (Central Statistics Office, Report on *Vital Statistics, 2004*)) in the absence of any net inward migration. While Ireland has experienced a fairly rapid fall in TPFR over the past twenty years, the TPFR increased between 2001 and 2003 and in this period reached levels closer to those rates experienced in Ireland in the early 1990s. Figure 1.8 shows that for 2004 Ireland continues to have the highest TPFR in the EU (1.99) followed by France (1.92). For 2004 the Czech Republic and Poland have the lowest total period fertility rates (1.23) of the twenty-seven EU countries.

Figure 1.7
Total Period Fertility Rates Subdivided by Age Groups, Ireland: 1984-2004



Source: Report on *Vital Statistics, 2004*, Central Statistics Office.

Figure 1.8
Total Period Fertility Rate, 2004, for EU Countries



Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted January 2007.
<http://epp.eurostat.ec.europa.eu>

Note: For comparative purposes all rates (including that for Ireland) for Figure 1.8 are from Eurostat, January 2007.



Section 2
Selected Trends

Section 2 Selected Trends

Introduction

A general review of the data reported to the NPRS over the period 1999-2004 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 summarise data for 1999-2004.

Section 2 Selected Trends

Table 2.1
Trends in Vital Events, 1999-2004

Singleton and Multiple Births, Numbers and Rates (per 1,000) for
Live Births, Stillbirths, Early Neonatal Deaths and Perinatal Deaths

Vital Events		1999		2000		Year 2001		2002		2003		2004	
		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	-
	Multiple	1,463	-	1,429	-	1,807	-	1,770	-	1,795	-	1,881	-
	Total	54,019	-	54,858	-	57,922	-	60,522	-	61,632	-	62,067	-
Stillbirths:	Singleton	274	5.2	288	5.4	307	5.4	319	5.4	327	5.4	313	5.2
	Multiple	14	9.5	20	13.8	32	17.4	24	13.4	30	16.4	26	13.6
	Total	288	5.3	308	5.6	339	5.8	343	5.6	357	5.8	339	5.4
Early Neonatal Deaths:	Singleton	130	2.5	153	2.9	136	2.4	149	2.5	156	2.6	140	2.3
	Multiple	27	18.5	23	16.1	24	13.3	21	11.9	21	11.7	28	14.9
	Total	157	2.9	176	3.2	160	2.8	170	2.8	177	2.9	168	2.7
Perinatal Deaths:	Singleton	404	7.6	441	8.2	443	7.9	468	7.9	483	8.0	453	7.5
	Multiple	41	27.8	43	29.7	56	30.5	45	25.1	51	27.9	54	28.3
	Total	445	8.2	484	8.8	499	8.6	513	8.4	534	8.6	507	8.1
Adjusted Perinatal Deaths:	Singleton	301	5.7	317	5.9	311	5.5	353	6.0	336	5.6	336	5.6
	Multiple	37	25.1	31	21.4	45	24.5	43	24.0	48	26.3	46	24.2
	Total	338	6.2	348	6.3	356	6.1	396	6.5	384	6.2	382	6.1

Table 2.2
Trends in Selected Statistics, 1999-2004

Selected Statistics	1999	2000	2001	2002	2003	2004
General Characteristics						
Average Age of Mother in years ¹	30.06	30.18	30.27	30.41	30.58	30.79
Average Maternal Parity ²	1.10	1.09	1.07	1.06	1.05	1.05
Single Mothers (%) ³	29.71	30.09	30.14	30.01	30.20	30.63
Average Age of Single Mothers in years ²	24.74	24.98	25.36	25.72	26.10	26.38
Average Number of Previous Stillbirths per 1,000 maternities ²	14.03	13.06	13.57	12.58	12.61	12.60
Average weight in grams ⁴						
- Singleton Births	3,505.35	3,517.36	3,509.36	3,503.73	3,500.64	3,507.96
- Multiple Births	2,467.24	2,509.85	2,470.41	2,489.72	2,487.13	2,471.20
- Total Births	3,477.19	3,491.13	3,476.96	3,474.07	3,471.11	3,476.56
Low birthweight <2500 grams (%) ⁴						
- Singleton Births ⁵	3.80	3.84	3.84	3.76	3.87	3.71
- Multiple Births	47.71	43.35	46.46	44.18	45.07	45.56
- Total Births	4.99	4.87	5.17	4.94	5.07	4.98
Average Gestational Age at delivery in weeks ²	39.48	39.46	39.47	39.45	39.44	39.38
Average interval since last birth in years ²	3.82	3.84	3.81	3.85	3.78	3.72
Perinatal Care						
Hospital & GP combined antenatal care (%) ³	72.30	72.39	73.25	74.06	75.85	77.19
Mother's average length of stay in days ²	4.71	4.54	4.38	4.09	3.95	3.85
Immunity to Rubella (%) ³	89.63	87.76	86.84	86.49	87.30	90.49
Method of Delivery (%) ⁶						
- <i>Singleton Births</i>						
- Spontaneous	65.35	64.56	64.29	63.27	62.24	60.54
- Caesarean	19.69	20.55	21.05	21.61	23.14	24.23
- Forceps ⁷	4.27	3.78	3.21	3.19	2.89	2.48
- <i>Multiple Births</i>						
- Spontaneous	32.33	33.73	29.83	33.62	26.30	28.23
- Caesarean	47.23	50.31	52.74	49.49	58.33	55.82
- Forceps ⁷	3.08	2.52	2.71	2.99	1.56	2.34
- <i>Total Births</i>						
- Spontaneous	64.46	63.76	63.22	62.41	61.20	59.56
- Caesarean	20.43	21.33	22.04	22.43	24.17	25.19
- Forceps ⁷	4.24	3.74	3.20	3.18	2.85	2.48
Booked Hospital Admissions (%) ³	96.49	96.48	98.17	97.58	97.47	98.08
Mothers breastfeeding (%) ⁸	36.16	38.41	39.13	41.14	41.32	42.47
Perinatal Outcomes						
Wigglesworth Classes (Rate) ⁹						
- Macerated Stillbirths	3.46	4.04	3.67	4.23	3.84	3.49
- Congenital Anomalies	1.94	2.46	2.50	1.87	2.37	2.02
- Immaturity	1.39	1.07	1.27	1.23	1.18	1.28
- Asphyxia	1.93	1.38	1.49	1.43	1.52	1.26
- Specific Conditions	0.49	0.51	0.63	0.64	0.53	0.85
- Total	9.11	9.45	9.57	9.40	9.43	8.90
Infant's average length of stay in days ¹⁰						
- Singleton Births	4.17	4.08	3.89	3.68	3.62	3.55
- Multiple Births	10.68	10.73	11.45	10.16	10.09	10.59
- Total Births	4.34	4.25	4.12	3.87	3.80	3.76
Post-mortems for Early Neonatal Deaths (%) ¹¹	44.37	39.41	33.55	42.07	41.72	38.16

¹ Based on maternities.

² Based on maternities. Unknown/missing values are excluded.

³ Based on maternities. Unknown values included in the calculation of percentages.

⁴ Based on live births. Excludes cases where weight is unknown.

⁵ Percentages are calculated based on the number of singleton births weighing less than 2,500 grams.

⁶ Based on live births. Unknown values were excluded. 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.

⁷ Excludes breech deliveries.

⁸ Based on maternities with live births. Unknown values are excluded in the calculation of percentages. Excludes early neonatal deaths.

⁹ See Appendix G for details of method. Rates were calculated as the ratio of the number of deaths to the total number of births multiplied by 1,000.

¹⁰ Based on live births. Excludes early neonatal deaths.

¹¹ Based on early neonatal deaths. Unknown values are excluded in the calculation of percentages.

Note: 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. Unless otherwise stated, missing values are not included in the calculation of percentages.

Figure 2.1
Percentage of Births to Single Mothers, 1999-2004

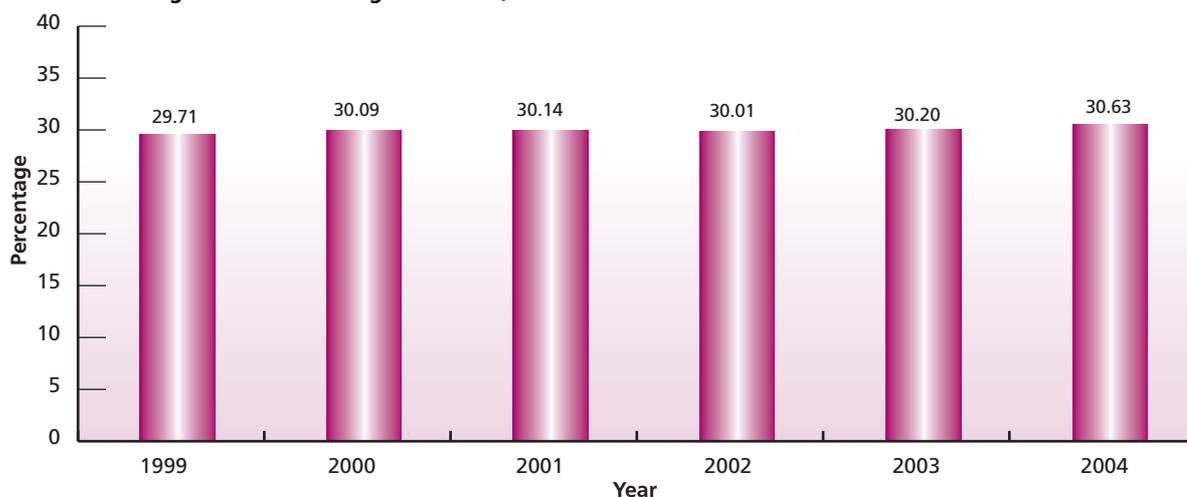
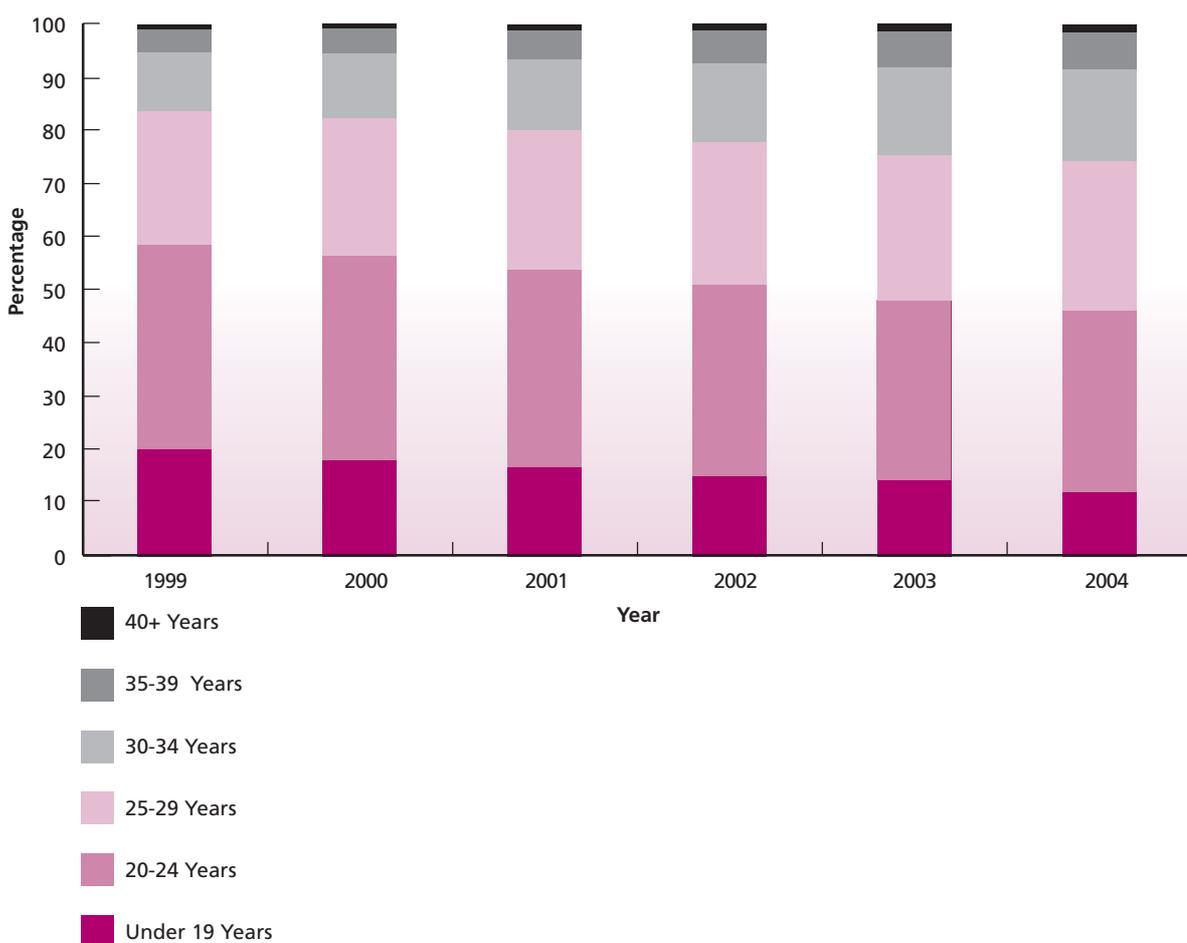


Figure 2.2
Percentage of Births to Single Mothers by Age of Mother, Singleton Births, 1999-2004



Source: Reports on *Perinatal Statistics for 1999-2002*, The Economic & Social Research Institute. Appendix E, Tables E3.
 Report on *Perinatal Statistics for 2003*, The Economic & Social Research Institute. Appendix F Table F3.
 Note: See Appendix F, Table F3 for data on 2004.

Figure 2.3
Percentage of Low Birthweight Babies, 1999-2004

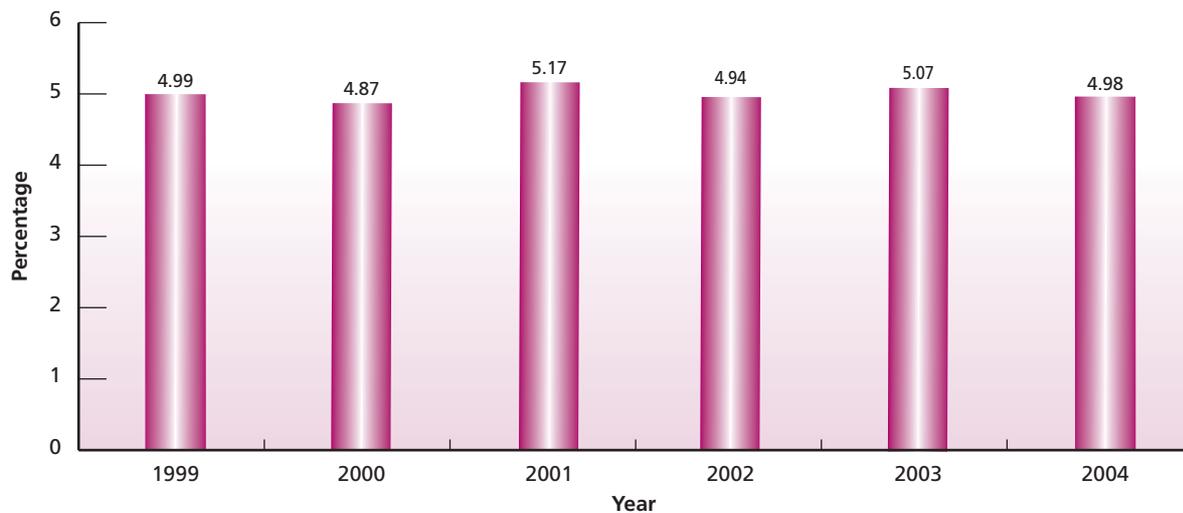


Figure 2.4
Average Length of Stay in Days for Mothers and Infants, 1999-2004

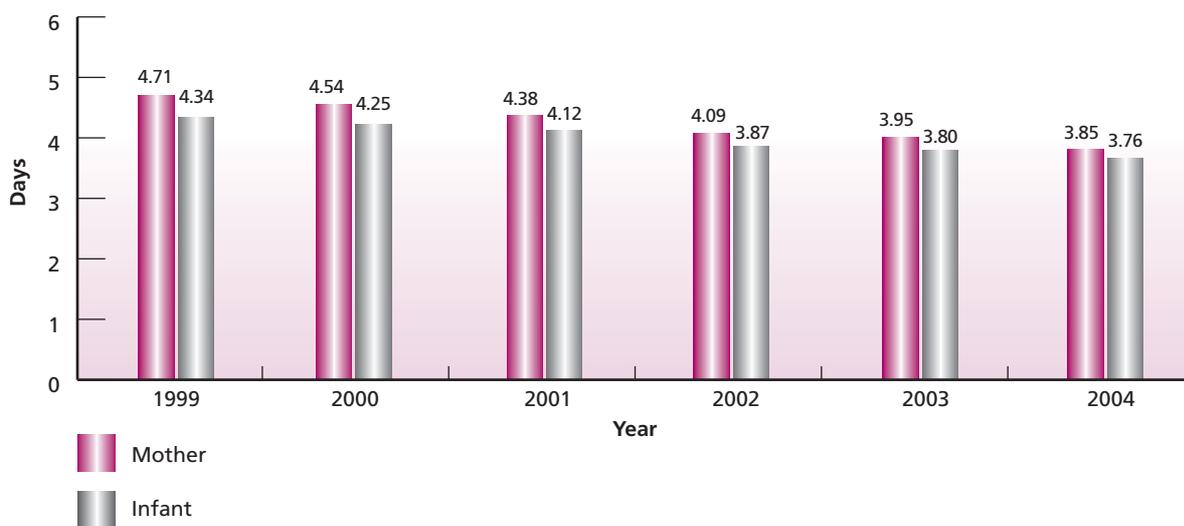


Figure 2.5
Caesarean Births as a Percentage of Total Births, 1999-2004

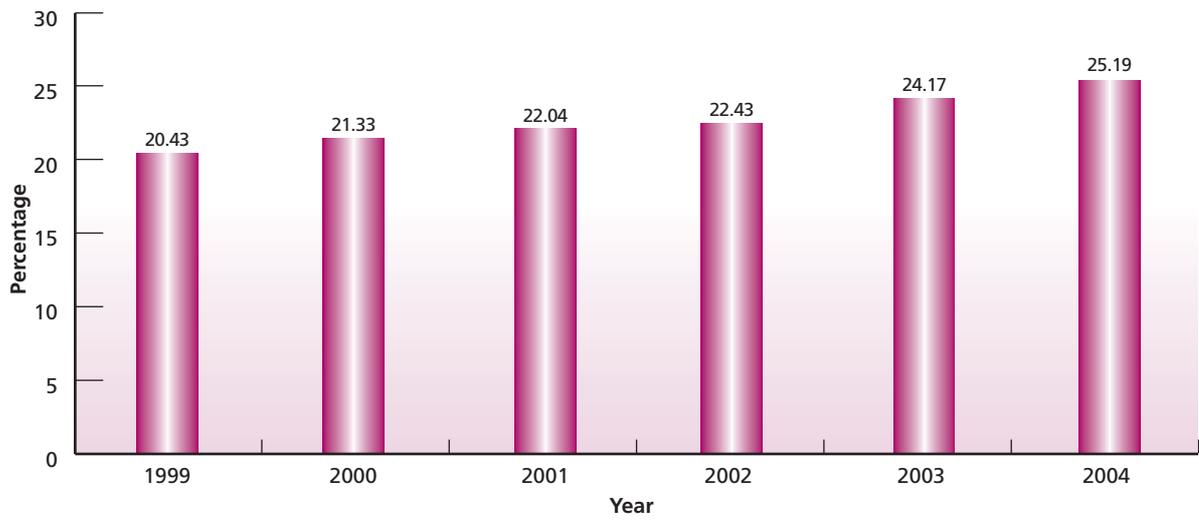
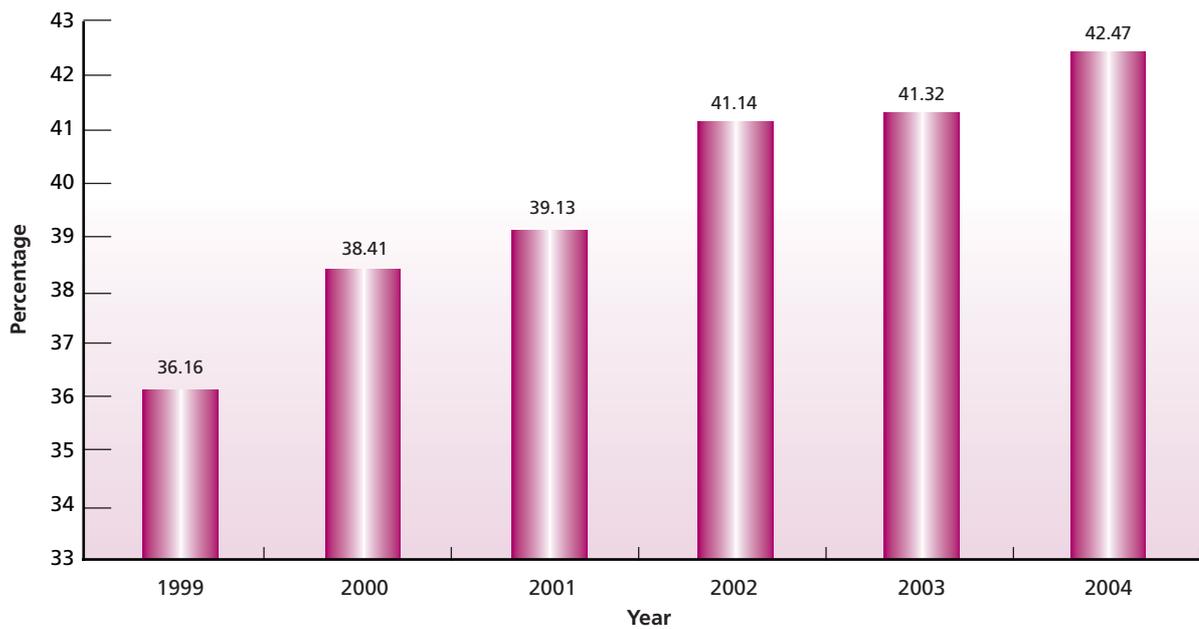
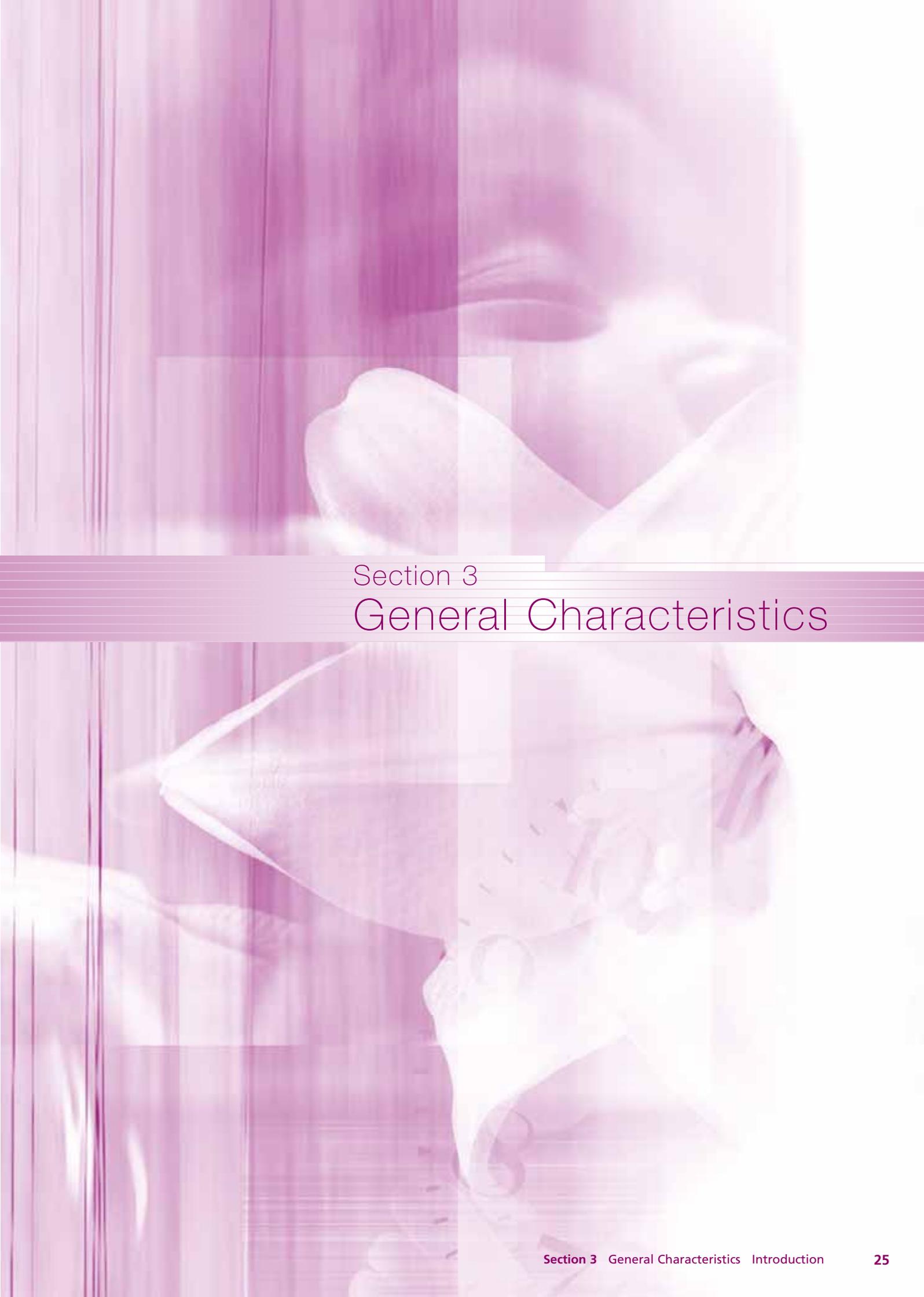


Figure 2.6
Percentage of Mother's Breastfeeding, 1999-2004





Section 3

General Characteristics

This section presents a more detailed analysis of data reported to the NPRS for 2004.

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 occupation and nationality; birthweight and mother's health board of residence.

Section 3 General Characteristics

Part 1 Singleton Births

Section 3 General Characteristics

Part 1 Singleton Births

Table 3.1
Age of Mother

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Age of Mother	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR*
Under 15 Years	5	0.0	1	166.7	0	0.0	166.7	166.7
15-19 Years	2,458	4.1	8	3.2	10	4.1	7.3	5.3
20-24 Years	8,148	13.5	44	5.4	23	2.8	8.2	5.9
25-29 Years	14,126	23.5	64	4.5	29	2.1	6.6	5.1
30-34 Years	20,782	34.5	94	4.5	43	2.1	6.6	4.9
35-39 Years	12,211	20.3	64	5.2	25	2.0	7.3	5.5
40-44 Years	2,278	3.8	26	11.3	10	4.4	15.6	9.2
45 Years & over	58	0.1	1	16.9	0	0.0	16.9	16.9
Not Stated	120	0.2	11	84.0	0	0.0	84.0	69.8
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

*In this and subsequent tables, 'Adjusted PMR' gives a recalculated perinatal mortality rate which excludes all deaths due to congenital anomalies.

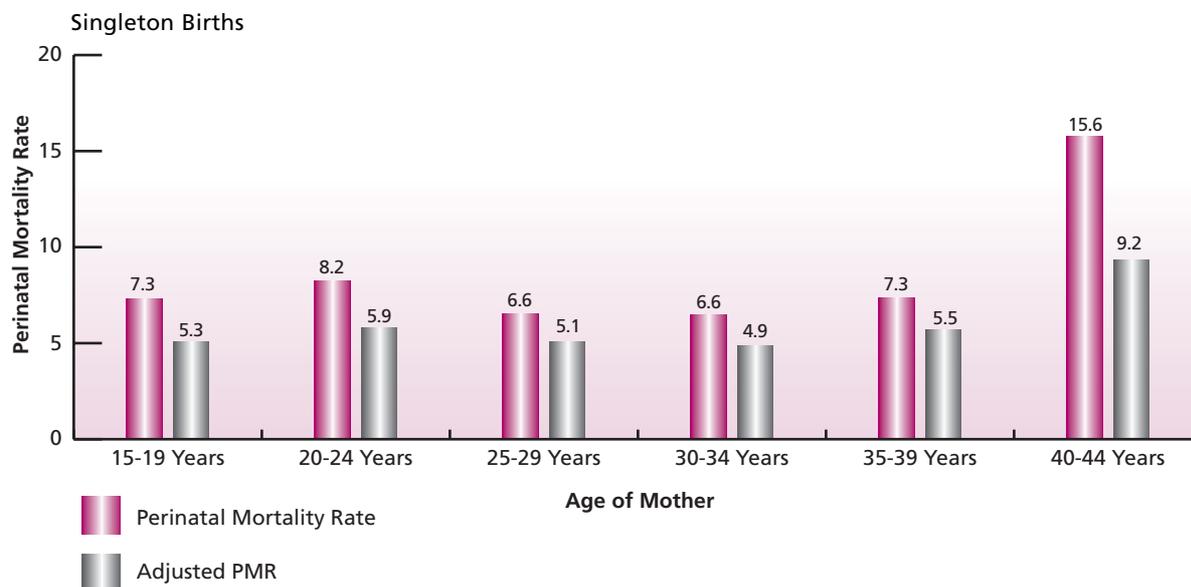
Table 3.2
Maternal Parity

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

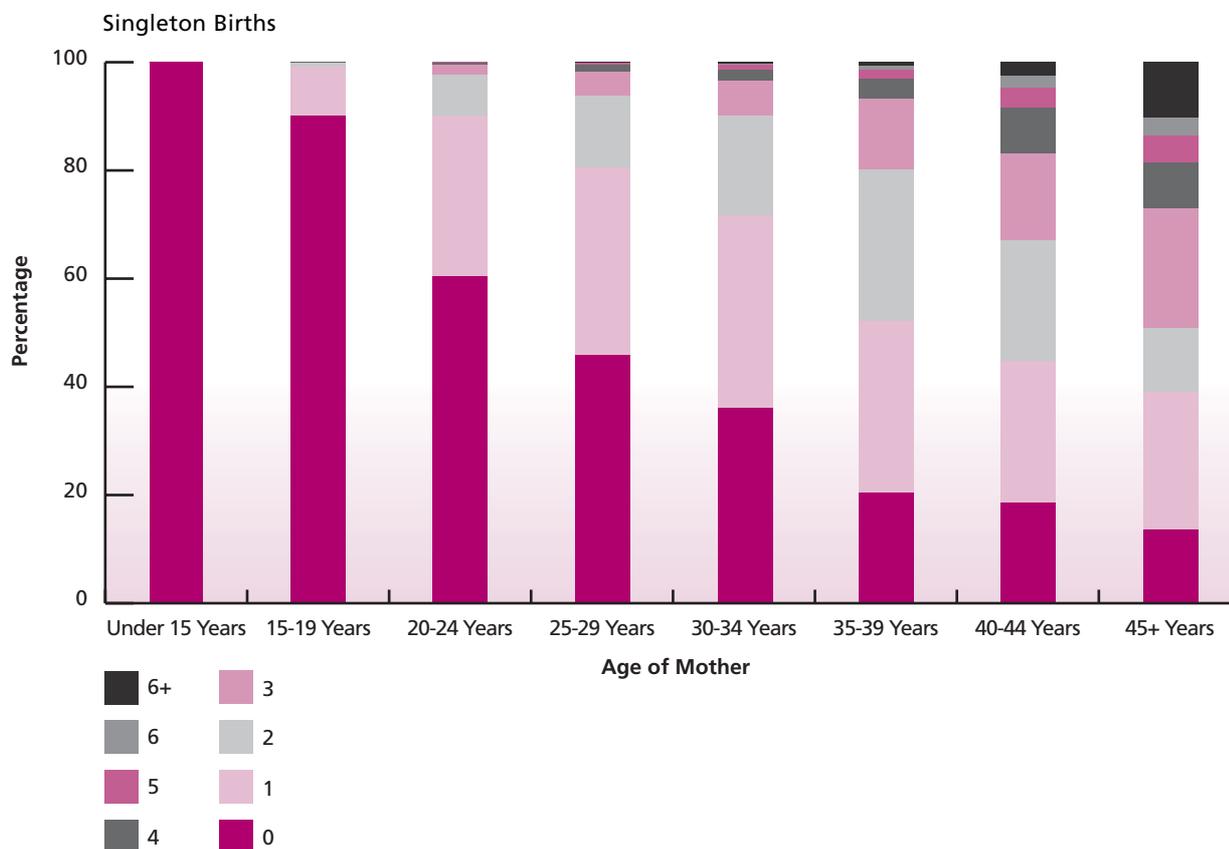
Maternal Parity	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0	24,099	40.0	114	4.7	63	2.6	7.3	5.8
1	19,432	32.3	90	4.6	36	1.9	6.5	4.3
2	10,322	17.2	49	4.7	23	2.2	6.9	4.7
3	4,050	6.7	26	6.4	12	3.0	9.3	7.4
4	1,303	2.2	16	12.1	1	0.8	12.9	12.9
5	521	0.9	7	13.3	2	3.8	17.0	15.2
6	222	0.4	3	13.3	0	0.0	13.3	13.3
More than 6	210	0.3	4	18.7	3	14.3	32.7	14.3
Not Stated	27	0.0	4	129.0	0	0.0	129.0	100.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Figure 3.1
Perinatal Mortality Rates by Age of Mother, 2004



Note: 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, 2004



Note: See Appendix F, Table F1 for data. 'Not Stated' data are not included in the calculation of percentages.

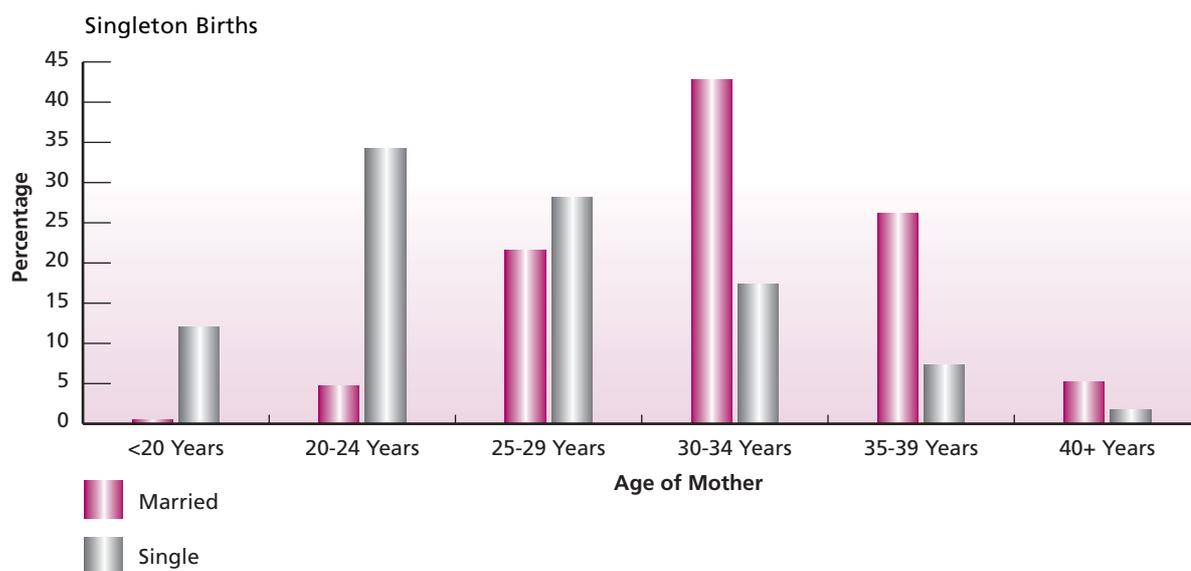
Table 3.3
Mother's Marital Status

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Mother's Marital Status	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Married	40,660	67.6	193	4.7	89	2.2	6.9	5.0
Single	18,480	30.7	112	6.0	48	2.6	8.6	6.8
Widowed	72	0.1	1	13.7	0	0.0	13.7	13.7
Separated	712	1.2	5	7.0	2	2.8	9.8	4.2
Divorced	251	0.4	1	4.0	1	4.0	7.9	4.0
Not Stated	11	0.0	1	83.3	0	0.0	83.3	83.3
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Figure 3.3
Mother's Age: Percentage Distribution of Singleton Births for Married and Single Status, 2004



Note: See Appendix F, Table F3 for data. 'Not Stated' data are not included in the calculation of percentages.

Table 3.4
Father's Occupation

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Father's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	2,336	3.9	17	7.2	8	3.4	10.6	8.1
Other Agricultural Occupations & Fishermen	610	1.0	0	0.0	2	3.3	3.3	0.0
Higher-Professional	3,967	6.6	17	4.3	7	1.8	6.0	4.5
Lower-Professional Managers	2,626	4.4	9	3.4	3	1.1	4.6	3.8
Salaried-Employees	5,232	8.7	11	2.1	6	1.1	3.2	2.1
Non-Manual Workers	1,506	2.5	9	5.9	3	2.0	7.9	5.3
Other Non-Manual Workers	4,774	7.9	18	3.8	4	0.8	4.6	3.6
Skilled Manual Workers	4,721	7.8	30	6.3	13	2.8	9.1	7.0
Semi-skilled Manual Workers	12,180	20.2	58	4.7	28	2.3	7.0	5.4
Unskilled Manual Workers	2,214	3.7	11	4.9	7	3.2	8.1	5.0
Unemployed	593	1.0	1	1.7	1	1.7	3.4	0.0
Not Classifiable	1,931	3.2	12	6.2	7	3.6	9.8	7.2
Not Applicable	1,474	2.4	8	5.4	6	4.1	9.4	6.8
Not Stated	15,190	25.2	101	6.6	41	2.7	9.3	7.1
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Note: In this table 'Not Classifiable' includes 145 Fathers whose occupation was recorded as 'Home Duties'. See Appendix C for a description of the classification system for occupations.

Figure 3.4
Perinatal Mortality Rates by Father's Occupation, 2004

Singleton Births



Note: See Table 3.4 for data. The adjusted rate excludes all deaths due to congenital anomalies.

Table 3.5
Mother's Occupation

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Mother's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	105	0.2	0	0.0	0	0.0	0.0	0.0
Other Agricultural Occupations & Fishermen	94	0.2	0	0.0	1	10.6	10.6	10.6
Higher-Professional	3,018	5.0	9	3.0	2	0.7	3.6	3.3
Lower-Professional Managers	7,477	12.4	33	4.4	16	2.1	6.5	5.1
Salaried-Employees	3,985	6.6	22	5.5	6	1.5	7.0	4.8
Non-Manual Workers	1,058	1.8	0	0.0	1	0.9	0.9	0.9
Other Non-Manual Workers	13,896	23.1	60	4.3	27	1.9	6.2	4.5
Skilled Manual Workers	6,501	10.8	27	4.1	25	3.8	8.0	5.1
Semi-skilled Manual Workers	862	1.4	3	3.5	1	1.2	4.6	3.5
Unskilled Manual Workers	2,228	3.7	9	4.0	4	1.8	5.8	4.0
Unemployed	10	0.0	0	0.0	0	0.0	0.0	0.0
Not Classifiable	2,560	4.3	24	9.3	5	2.0	11.2	8.2
Home Duties	2,377	3.9	9	3.8	11	4.6	8.4	7.6
Not Stated	15,407	25.6	103	6.6	37	2.4	9.0	6.8
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

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, 2004



Note:
 - 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, 2004

Singleton Births

Previous Stillbirths	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0	35,407	98.1	176	4.9	72	2.0	7.0	4.9
1	590	1.6	16	26.4	5	8.5	34.7	26.6
2	48	0.1	3	58.8	0	0.0	58.8	58.8
3 and over	15	0.0	0	0.0	0	0.0	0.0	0.0
Not Stated	27	0.1	4	129.0	0	0.0	129.0	100.0
Total	36,087	100.0	199	5.5	77	2.1	7.6	5.4

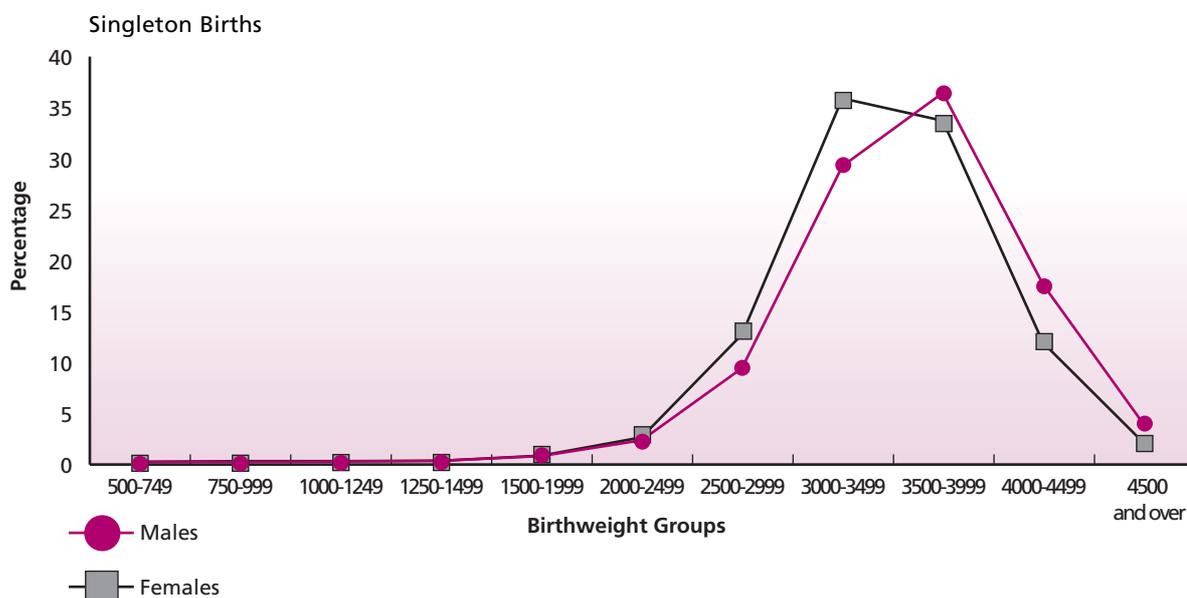
Note: Primiparae (i.e. women with no previous live births or stillbirths) are not included in this table.

Table 3.7**Birthweight – All Singleton Births**

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	62	0.1	62	500.0	34	548.4	774.2	756.5
750-999	90	0.1	28	237.3	13	144.4	347.5	259.6
1000-1249	104	0.2	26	200.0	7	67.3	253.8	184.9
1250-1499	124	0.2	21	144.8	6	48.4	186.2	125.9
1500-1999	422	0.7	44	94.4	17	40.3	130.9	87.8
2000-2499	1,430	2.4	33	22.6	17	11.9	34.2	20.8
2500-2999	6,589	10.9	41	6.2	10	1.5	7.7	5.6
3000-3499	19,548	32.5	35	1.8	19	1.0	2.8	2.2
3500-3999	21,140	35.1	12	0.6	14	0.7	1.2	0.9
4000-4499	8,894	14.8	7	0.8	2	0.2	1.0	1.0
4500 and over	1,761	2.9	3	1.7	0	0.0	1.7	1.7
Not Stated	22	0.0	1	43.5	1	45.5	87.0	87.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Figure 3.6
Percentage Distribution of Live Births across Birthweight Groups, 2004



Note:
 - See Tables 3.8 and 3.9 for data.
 - This figure does not include 33 births for which the sex was recorded as 'indeterminate' or 'unknown'.
 - '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, 2004

Singleton Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	35	0.1	37	513.9	21	600.0	805.6	797.1
750-999	38	0.1	20	344.8	6	157.9	448.3	372.5
1000-1249	49	0.2	15	234.4	3	61.2	281.3	193.0
1250-1499	66	0.2	13	164.6	2	30.3	189.9	123.3
1500-1999	212	0.7	15	66.1	6	28.3	92.5	55.0
2000-2499	700	2.3	23	31.8	9	12.9	44.3	25.4
2500-2999	2,906	9.4	18	6.2	7	2.4	8.5	5.5
3000-3499	9,088	29.3	13	1.4	12	1.3	2.7	1.9
3500-3999	11,324	36.5	6	0.5	9	0.8	1.3	0.8
4000-4499	5,453	17.6	4	0.7	1	0.2	0.9	0.9
4500 and over	1,185	3.8	0	0.0	0	0.0	0.0	0.0
Not Stated	6	0.0	1	142.9	0	0.0	142.9	142.9
Total	31,062	100.0	165	5.3	76	2.4	7.7	5.5

Note: The 2004 dataset includes 33 singleton births for which the sex was recorded as 'indeterminate' or 'unknown'. 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, 2004

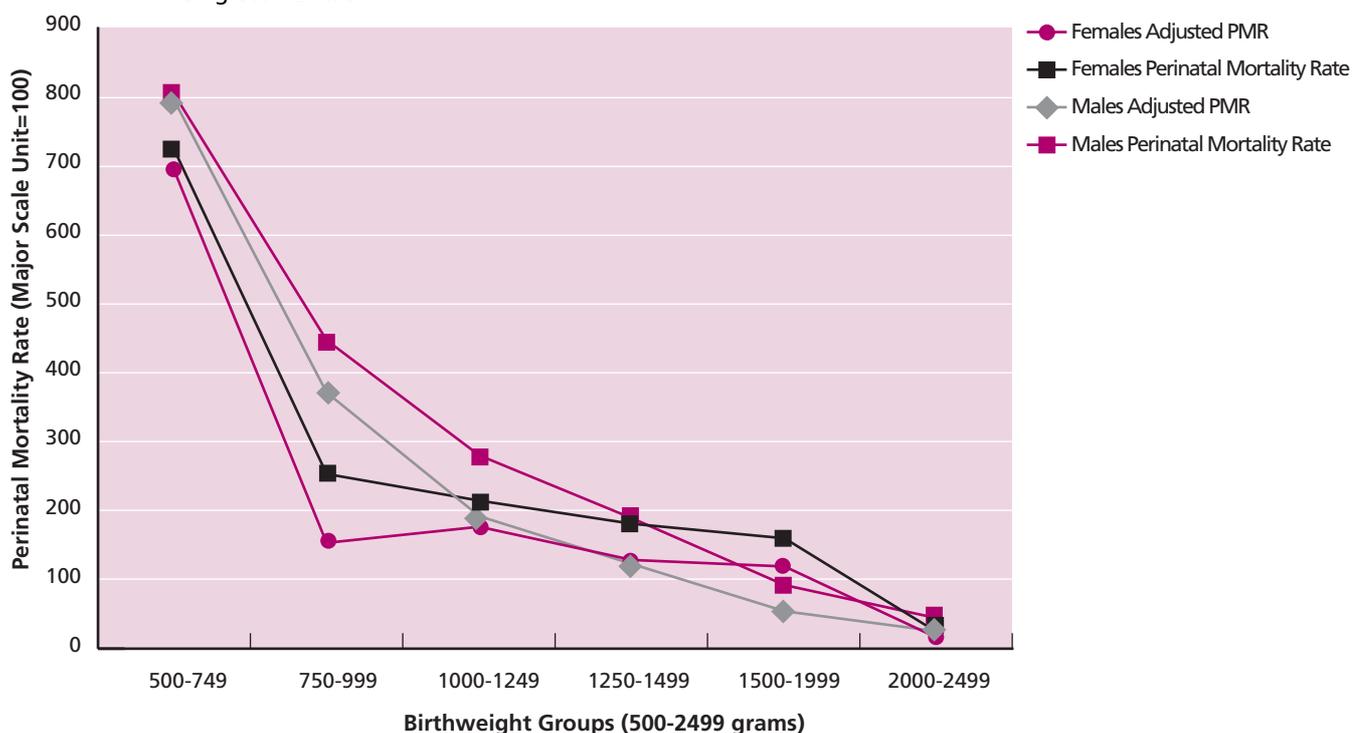
Singleton Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	27	0.1	24	470.6	13	481.5	725.5	695.7
750-999	51	0.2	8	135.6	7	137.3	254.2	153.8
1000-1249	54	0.2	11	169.2	3	55.6	215.4	177.4
1250-1499	58	0.2	8	121.2	4	69.0	181.8	129.0
1500-1999	208	0.7	29	122.4	9	43.3	160.3	119.5
2000-2499	730	2.5	10	13.5	8	11.0	24.3	16.3
2500-2999	3,680	12.6	22	5.9	3	0.8	6.8	5.4
3000-3499	10,453	35.9	22	2.1	6	0.6	2.7	2.5
3500-3999	9,812	33.7	6	0.6	5	0.5	1.1	1.0
4000-4499	3,440	11.8	3	0.9	1	0.3	1.2	1.2
4500 and over	574	2.0	3	5.2	0	0.0	5.2	5.2
Not Stated	6	0.0	0	0.0	1	166.7	166.7	166.7
Total	29,093	100.0	146	5.0	60	2.1	7.0	5.5

Note: The 2004 dataset includes 33 singleton births for which the sex was recorded as 'indeterminate' or 'unknown'. These births are excluded from Tables 3.8 and 3.9.

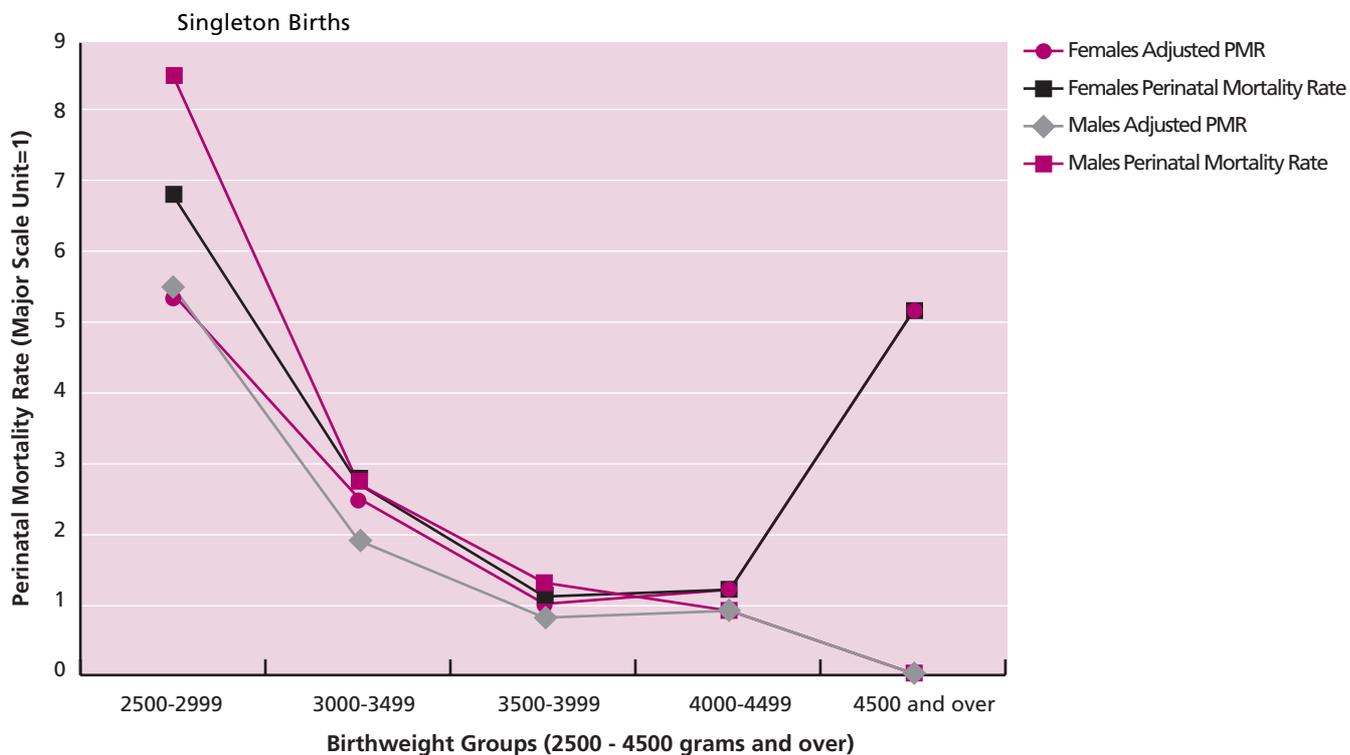
Figure 3.7 (A)
Perinatal Mortality Rates for Males and Females by Birthweight (500g – 2499grams), 2004

Singleton Births



Note:
- See Tables 3.8 and 3.9 for data.
- This figure does not include 33 births for which the sex was recorded as 'indeterminate' or 'unknown'.

Figure 3.7 (B)
Perinatal Mortality Rates for Males and Females by Birthweight (2500 - 4500 grams and over), 2004



Note:
 - See Tables 3.8 and 3.9 for data.
 - This figure does not include 33 births for which the sex was recorded as 'indeterminate' or 'unknown'.

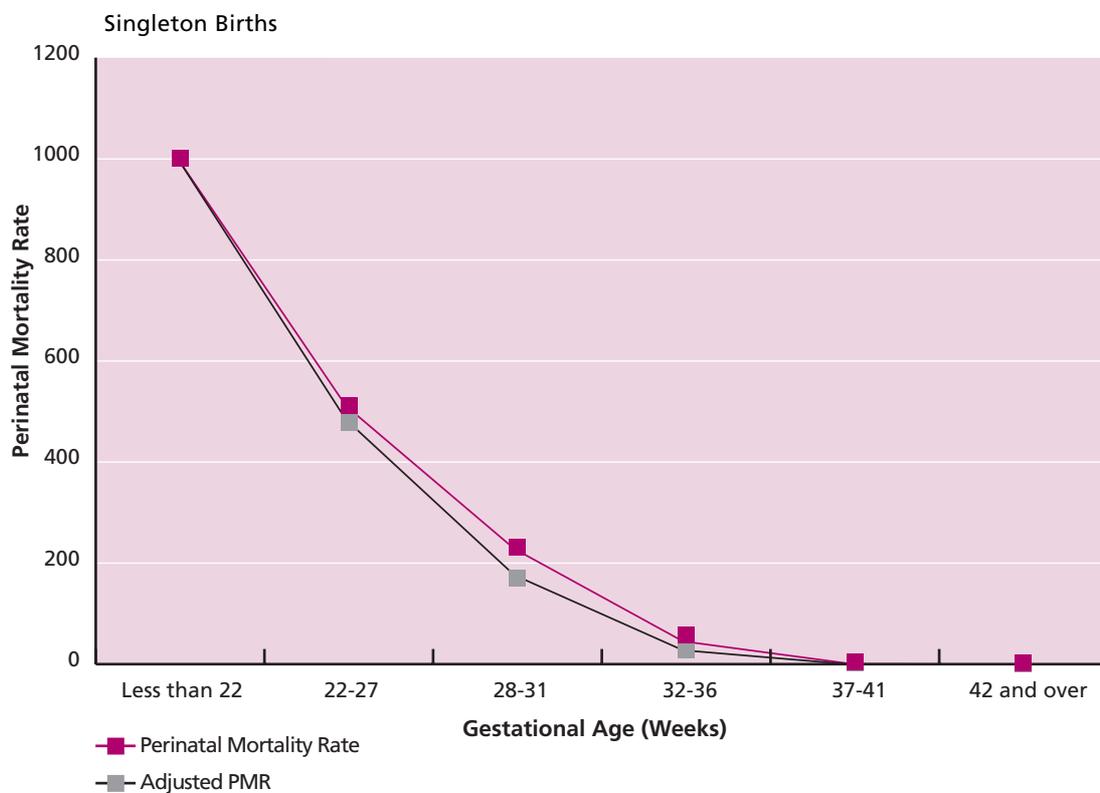
Table 3.10
Gestational Age at Delivery

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Gestational Age (weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Less than 22	1	0.0	5	833.3	1	1000.0	1000.0	1000.0
22-27	150	0.2	61	289.1	47	313.3	511.8	485.0
28-31	283	0.5	60	174.9	19	67.1	230.3	177.6
32-36	2,199	3.7	82	35.9	26	11.8	47.3	30.3
37-41	54,718	90.9	102	1.9	43	0.8	2.6	1.9
42 and over	2,809	4.7	3	1.1	4	1.4	2.5	1.8
Not Stated	26	0.0	0	0.0	0	0.0	0.0	0.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Figure 3.8
Perinatal Mortality Rates by Gestational Age, 2004



Note: See Table 3.10 for data.

Table 3.11
Interval in Years Since Last Birth

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Interval Since Last Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
No Previous Births	24,099	40.0	114	4.7	63	2.6	7.3	5.8
1 year or less	589	1.0	9	15.1	9	15.3	30.1	25.2
>1 year to 2 years	8,927	14.8	47	5.2	13	1.5	6.7	5.0
>2 years to 3 years	9,113	15.1	29	3.2	19	2.1	5.3	3.3
>3 years to 4 years	5,834	9.8	27	4.6	13	2.2	6.8	5.0
>4 years to 5 years	3,667	6.1	25	6.7	5	1.4	8.1	5.7
>5 years to 6 years	2,300	3.8	14	6.1	2	0.9	6.9	4.8
More than 6 years	5,166	8.6	35	6.7	13	2.5	9.2	6.6
Number of Previous Births Unknown	16	0.0	3	157.9	0	0.0	157.9	111.1
Not Stated	475	0.8	10	20.6	3	6.3	26.8	18.7
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Table 3.12
Month of Birth

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Month of Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
January	5,007	8.3	33	6.5	15	3.0	9.5	7.0
February	4,640	7.7	24	5.1	10	2.2	7.3	5.6
March	5,093	8.5	27	5.3	11	2.2	7.4	5.7
April	4,995	8.3	27	5.4	12	2.4	7.8	4.8
May	4,948	8.2	25	5.0	12	2.4	7.4	5.4
June	5,018	8.3	32	6.3	10	2.0	8.3	6.5
July	5,222	8.7	25	4.8	11	2.1	6.9	5.0
August	5,088	8.5	26	5.1	20	3.9	9.0	6.3
September	5,277	8.8	29	5.5	5	0.9	6.4	4.5
October	4,936	8.2	17	3.4	9	1.8	5.2	4.0
November	4,903	8.1	20	4.1	12	2.4	6.5	5.5
December	5,059	8.4	28	5.5	13	2.6	8.1	6.5
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Table 3.13
Mother's Health Board of Residence

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Mother's Health Board of Residence	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Eastern	22,559	37.5	107	4.7	44	2.0	6.7	4.9
Midland	3,750	6.2	31	8.2	9	2.4	10.6	9.8
Mid-Western	4,601	7.6	19	4.1	9	2.0	6.1	5.0
North-Eastern	5,613	9.3	35	6.2	16	2.9	9.0	6.6
North-Western	2,975	4.9	10	3.4	15	5.0	8.4	5.7
South-Eastern	6,851	11.4	31	4.5	9	1.3	5.8	4.2
Southern	8,357	13.9	56	6.7	27	3.2	9.9	7.0
Western	5,439	9.0	23	4.2	11	2.0	6.2	4.0
Other	22	0.0	1	43.5	0	0.0	43.5	43.5
Unknown	19	0.0	0	0.0	0	0.0	0.0	0.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

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

Table 3.14
Mother's Nationality

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Mother's Nationality	Live Births	Per Cent (%) Live Birth	Per Cent (%) Live Births by Mother's Marital Status			Stillbirths	Per Cent (%) Stillbirth	Per Cent (%) Stillbirths by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PWR
			Married	Never Married	Other**			Married	Never Married	Other**					
Ireland	49,352	82.0	54.6	26.1	1.3	244	78.0	47.9	27.8	2.2	4.9	110	2.2	7.1	5.1
UK	1,807	3.0	1.9	1.0	0.1	11	3.5	1.6	1.9	0.0	6.1	6	3.3	9.4	7.7
EU15 (excluding Ireland & the UK)	651	1.1	0.6	0.4	0.0	2	0.6	0.3	0.3	0.0	3.1	0	0.0	3.1	1.5
EU15 to EU25															
Accession States	539	0.9	0.5	0.4	0.0	3	1.0	0.3	0.6	0.0	5.5	0	0.0	5.5	5.5
Rest of Europe	903	1.5	1.2	0.3	0.0	4	1.3	1.0	0.3	0.0	4.4	3	3.3	7.7	7.7
Africa	3,216	5.3	4.2	1.0	0.1	20	6.4	4.5	1.9	0.0	6.2	10	3.1	9.3	7.7
Asia	1,515	2.5	2.1	0.4	0.0	6	1.9	1.6	0.3	0.0	3.9	6	4.0	7.9	6.6
America	361	0.6	0.5	0.1	0.0	3	1.0	1.0	0.0	0.0	8.2	0	0.0	8.2	5.5
Australia	81	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	33	0.1	0.0	0.0	0.0	0		0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Other Nationality	10	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
Multi-nationality	2	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
No 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
Not Stated	1,715	2.8	1.8	1.0	0.1	20	6.4	3.5	2.6	0.3	11.5	5	2.9	14.4	11.6
Total	60,186	100.0	67.6	30.7	1.7	313	100.0	61.7	35.8	2.6	5.2	140	2.3	7.5	5.6

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

Table 3.15
Father's Nationality

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Father's Nationality	Live Births	Per Cent (%) Live Birth	Per Cent (%) Live Births by Mother's Marital Status			Stillbirths	Per Cent (%) Stillbirth	Per Cent (%) Stillbirths by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR	
			Married	Never Married	Other*			Married	Never Married	Other*						
Ireland	32,182	53.5	47.3	5.8	0.4	154	49.2	42.8	5.8	0.6	4.8	66	2.1	6.8	5.0	
UK	1,358	2.3	1.9	0.4	0.0	5	1.6	1.6	0.0	0.0	3.7	4	2.9	6.6	4.4	
EU15 (excluding Ireland & the UK)	341	0.6	0.5	0.1	0.0	1	0.3	0.3	0.0	0.0	2.9	1	2.9	5.8	2.9	
EU15 to EU25																
Accession States	236	0.4	0.3	0.1	0.0	1	0.3	0.3	0.0	0.0	4.2	0	0.0	4.2	4.2	
Rest of Europe	583	1.0	0.9	0.0	0.0	4	1.3	1.3	0.0	0.0	6.8	2	3.4	10.2	10.2	
Africa	2,186	3.6	3.4	0.2	0.0	14	4.5	3.8	0.6	0.0	6.4	9	4.1	10.5	9.1	
Asia	941	1.6	1.5	0.0	0.0	4	1.3	1.3	0.0	0.0	4.2	4	4.3	8.5	7.4	
America	216	0.4	0.3	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	
Australia	81	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	42	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	
Other Nationality	4	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	
Multi-nationality	4	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	
No Nationality	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	
Not Stated	6,779	11.3	11.3	0.0	0.0	33	10.5	10.2	0.0	0.3	4.8	14	2.1	6.9	4.4	
Not Applicable	15,233	25.3	0.0	24.1	1.2	97	31.0	0.0	29.4	1.6	6.3	40	2.6	8.9	6.7	
Total	60,186	100.0	67.6	30.7	1.7	313	100.0	61.7	35.8	2.6	5.2	140	2.3	7.5	5.6	

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

Note: See Appendix J for a description of the classification system for nationalities.

'Not applicable' applies to father's nationality only. Where mother is not married, the General Register Office does not require father's details to register the birth, and as such this information is generally not provided.

Section 3
General Characteristics

Part 2 Multiple Births

Section 3 General Characteristics

Part 2 Multiple Births

Table 3.16
Maternities, Twins, Triplets, Quadruplets and Twinning Rate for 2004

Births*	Maternities	Sets of Twins	Sets of Triplets	Sets of Quadruplets	Twinning Rate
62,406	61,443	924	18	1	15.0

* Includes stillbirths.

Note: In 2004 there were 1,910 multiple births notified to the NPRS. Of these 3 Twin births weighed less than 500 grams. In accordance with the WHO guidelines the National Perinatal Dataset includes only births weighing 500 grams or more. Therefore, for the purposes of this report, the number of *complete* sets of Twins is 924. See also Section 1, Introduction.

Table 3.17
Age of Mother

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Age of Mother	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
15-19 Years	48	2.6	0	0.0	3	62.5	62.5	62.5
20-24 Years	143	7.6	0	0.0	2	14.0	14.0	14.0
25-29 Years	406	21.6	6	14.6	7	17.2	31.6	29.2
30-34 Years	718	38.2	15	20.5	13	18.1	38.2	31.6
35-39 Years	488	25.9	5	10.1	3	6.1	16.2	12.2
40-44 Years	72	3.8	0	0.0	0	0.0	0.0	0.0
45 Years and over	4	0.2	0	0.0	0	0.0	0.0	0.0
Not Stated	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

There were no multiple births to Mothers aged <15 years.

Table 3.18
Maternal Parity

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Maternal Parity	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0	775	41.2	16	20.2	11	14.2	34.1	29.2
1	596	31.7	3	5.0	12	20.1	25.0	21.8
2	312	16.6	4	12.7	2	6.4	19.0	19.0
3	121	6.4	3	24.2	3	24.8	48.4	32.8
4	41	2.2	0	0.0	0	0.0	0.0	0.0
5	11	0.6	0	0.0	0	0.0	0.0	0.0
6	15	0.8	0	0.0	0	0.0	0.0	0.0
More than 6	10	0.5	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 3.19
Mother's Marital Status

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Mother's Marital Status	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Married	1,391	74.0	23	16.3	17	12.2	28.3	22.8
Single	452	24.0	3	6.6	11	24.3	30.8	30.8
Separated	32	1.7	0	0.0	0	0.0	0.0	0.0
Divorced	4	0.2	0	0.0	0	0.0	0.0	0.0
Not Stated	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 3.20
Father's Occupation

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Father's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	81	4.3	1	12.2	0	0.0	12.2	0.0
Other Agricultural Occupations & Fishermen	13	0.7	0	0.0	0	0.0	0.0	0.0
Higher-Professional	142	7.5	2	13.9	1	7.0	20.8	20.8
Lower-Professional Managers	91	4.8	2	21.5	2	22.0	43.0	32.6
Salaried-Employees	176	9.4	1	5.6	4	22.7	28.2	28.2
Non-Manual Workers	45	2.4	0	0.0	2	44.4	44.4	22.7
Other Non-Manual Workers	128	6.8	1	7.8	4	31.3	38.8	38.8
Skilled Manual Workers	145	7.7	4	26.8	3	20.7	47.0	27.4
Semi-skilled Manual Workers	438	23.3	7	15.7	2	4.6	20.2	18.0
Unskilled Manual Workers	69	3.7	4	54.8	0	0.0	54.8	54.8
Unemployed	18	1.0	0	0.0	0	0.0	0.0	0.0
Not Classifiable	46	2.4	0	0.0	2	43.5	43.5	43.5
Not Applicable	61	3.2	1	16.1	1	16.4	32.3	16.4
Not Stated	394	20.9	3	7.6	7	17.8	25.2	25.2
Total	34	1.8	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Note: In this table 'Not Classifiable' includes 9 births for whom father's whose occupation was recorded as 'Home Duties'. See Appendix C for a description of the classification system for occupations.

Table 3.21
Mother's Occupation

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Mother's Occupation	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Farmers & Farm Managers	4	0.2	0	0.0	0	0.0	0.0	0.0
Other Agricultural Occupations & Fishermen	4	0.2	0	0.0	0	0.0	0.0	0.0
Higher-Professional Managers	99	5.3	3	29.4	2	20.2	49.0	39.6
Lower-Professional Managers	264	14.0	1	3.8	6	22.7	26.4	19.0
Salaried-Employees Non-Manual Workers	154	8.2	1	6.5	2	13.0	19.4	19.4
Other Non-Manual Workers	39	2.1	0	0.0	3	76.9	76.9	52.6
Skilled Manual Workers	444	23.6	8	17.7	1	2.3	19.9	19.9
Semi-skilled Manual Workers	157	8.3	3	18.8	4	25.5	43.8	43.8
Unemployed	15	0.8	0	0.0	0	0.0	0.0	0.0
Not Classifiable	64	3.4	2	30.3	2	31.3	60.6	46.2
Home Duties	66	3.5	1	14.9	4	60.6	74.6	60.6
Not Stated	59	3.1	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

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

Table 3.22
Number of Previous Stillbirths
 (for women having second and subsequent births)

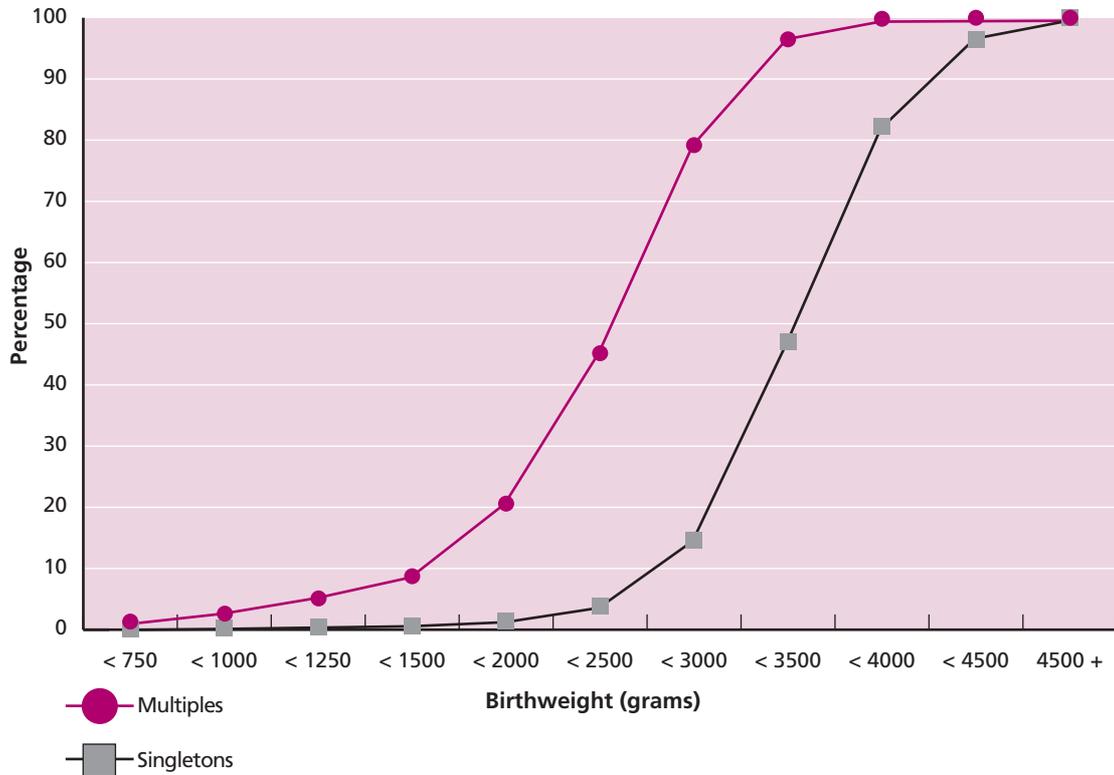
Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Previous Stillbirths	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0	1,082	97.8	10	9.2	17	15.7	24.7	21.1
1	22	2.0	0	0.0	0	0.0	0.0	0.0
2	1	0.1	0	0.0	0	0.0	0.0	0.0
3 and over	1	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,106	100.0	10	9.0	17	15.4	24.2	20.7

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, 2004



Note: Data are compiled from Tables 3.7 and 3.23.

Table 3.23
Birthweight – All Multiple Births

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	20	1.1	7	259.3	13	650.0	740.7	730.8
750-999	31	1.6	2	60.6	7	225.8	272.7	250.0
1000-1249	49	2.6	2	39.2	1	20.4	58.8	58.8
1250-1499	63	3.3	0	0.0	4	63.5	63.5	48.4
1500-1999	227	12.1	2	8.7	1	4.4	13.1	8.8
2000-2499	466	24.8	6	12.7	1	2.1	14.8	10.6
2500-2999	639	34.0	2	3.1	0	0.0	3.1	3.1
3000-3499	327	17.4	4	12.1	1	3.1	15.1	9.1
3500-3999	54	2.9	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
4500 and over	2	0.1	0	0.0	0	0.0	0.0	0.0
Not Stated	2	0.1	1	333.3	0	0.0	333.3	333.3
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 3.24
Birthweight – Males

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	10	1.0	5	333.3	6	600.0	733.3	714.3
750-999	18	1.9	1	52.6	6	333.3	368.4	333.3
1000-1249	21	2.2	1	45.5	1	47.6	90.9	90.9
1250-1499	27	2.8	0	0.0	2	74.1	74.1	38.5
1500-1999	101	10.5	1	9.8	0	0.0	9.8	9.8
2000-2499	244	25.4	4	16.1	1	4.1	20.2	16.2
2500-2999	319	33.2	1	3.1	0	0.0	3.1	3.1
3000-3499	183	19.1	2	10.8	0	0.0	10.8	10.8
3500-3999	35	3.6	0	0.0	0	0.0	0.0	0.0
4500 and over	2	0.2	0	0.0	0	0.0	0.0	0.0
Not Stated	0	0.0	1	1000.0	0	0.0	1000.0	1000.0
Total	960	100.0	16	16.4	16	16.7	32.8	28.8

Note: The 2004 dataset includes 4 multiple births for which the sex was recorded as 'indeterminate' or 'unknown'. These births are excluded from Tables 3.24 and 3.25.

Table 3.25
Birthweight – Females

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	10	1.1	2	166.7	7	700.0	750.0	750.0
750-999	13	1.4	1	71.4	1	76.9	142.9	142.9
1000-1249	28	3.1	1	34.5	0	0.0	34.5	34.5
1250-1499	36	3.9	0	0.0	2	55.6	55.6	55.6
1500-1999	126	13.7	1	7.9	1	7.9	15.7	7.9
2000-2499	221	24.1	2	9.0	0	0.0	9.0	4.5
2500-2999	319	34.8	1	3.1	0	0.0	3.1	3.1
3000-3499	144	15.7	2	13.7	1	6.9	20.5	6.9
3500-3999	19	2.1	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	917	100.0	10	10.8	12	13.1	23.7	19.5

Note: The 2004 dataset includes 4 multiple births for which the sex was recorded as 'indeterminate' or 'unknown'. These births are excluded from Tables 3.24 and 3.25.

Table 3.26
Gestational Age at Delivery

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Gestational Age (weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
22-27	59	3.1	7	106.1	19	322.0	393.9	375.0
28-31	131	7.0	5	36.8	5	38.2	73.5	73.5
32-36	604	32.1	4	6.6	2	3.3	9.9	5.0
37-41	1,085	57.7	10	9.1	2	1.8	11.0	8.2
42 and over	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 3.27
Interval in Years Since Last Birth

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Interval Since Last Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
No Previous Births	775	41.2	16	20.2	11	14.2	34.1	29.2
1 year or less	24	1.3	0	0.0	2	83.3	83.3	83.3
>1 year to 2 years	254	13.5	1	3.9	9	35.4	39.2	39.2
>2 years to 3 years	294	15.6	4	13.4	1	3.4	16.8	13.5
>3 years to 4 years	169	9.0	2	11.7	1	5.9	17.5	11.8
>4 years to 5 years	101	5.4	0	0.0	0	0.0	0.0	0.0
>5 years to 6 years	71	3.8	1	13.9	0	0.0	13.9	0.0
More than 6 years	161	8.6	1	6.2	2	12.4	18.5	12.4
Not Stated	32	1.7	1	30.3	2	62.5	90.9	90.9
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 3.28
Month of Birth

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Month of Birth	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
January	169	9.0	3	17.4	4	23.7	40.7	35.1
February	130	6.9	2	15.2	1	7.7	22.7	15.3
March	163	8.7	3	18.1	3	18.4	36.1	36.1
April	112	6.0	1	8.8	0	0.0	8.8	8.8
May	155	8.2	2	12.7	1	6.5	19.1	6.5
June	156	8.3	2	12.7	0	0.0	12.7	12.7
July	200	10.6	2	9.9	1	5.0	14.9	10.0
August	138	7.3	0	0.0	2	14.5	14.5	14.5
September	171	9.1	1	5.8	1	5.8	11.6	11.6
October	150	8.0	4	26.0	8	53.3	77.9	77.9
November	189	10.0	6	30.8	4	21.2	51.3	41.5
December	148	7.9	0	0.0	3	20.3	20.3	13.6
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 3.29
Mother's Health Board of Residence

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Mother's Health Board of Residence	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Eastern	744	39.6	6	8.0	9	12.1	20.0	13.4
Midland	99	5.3	5	48.1	2	20.2	67.3	67.3
Mid-Western	165	8.8	0	0.0	3	18.2	18.2	18.2
North-Eastern	180	9.6	2	11.0	1	5.6	16.5	16.5
North-Western	50	2.7	0	0.0	0	0.0	0.0	0.0
South-Eastern	219	11.6	4	17.9	3	13.7	31.4	27.0
Southern	251	13.3	6	23.3	3	12.0	35.0	31.3
Western	171	9.1	3	17.2	7	40.9	57.5	52.0
Other	2	0.1	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

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

Table 3.30
Mother's Nationality

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Mother's Nationality	Live Births	Per Cent (%) Live Birth	Per Cent (%) Live Births by Mother's Marital Status			Stillbirths	Per Cent (%) Stillbirth	Per Cent (%) Stillbirths by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
			Married	Never Married	Other**			Married	Never Married	Other**					
Ireland	1,537	81.7	60.8	19.7	1.3	21	80.8	69.2	11.5	0.0	13.5	23	15.0	28.2	23.9
UK	58	3.1	1.9	1.0	0.2	0	0.0	0.0	0.0	0.0	0.0	3	51.7	51.7	51.7
EU15 (excluding Ireland and the UK)	22	1.2	1.0	0.2	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
EU15 to EU25	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
Accession States															
Rest of Europe	31	1.6	1.3	0.4	0.0	1	3.8	3.8	0.0	0.0	31.3	0	0.0	31.3	0.0
Africa	148	7.9	6.2	1.3	0.3	2	7.7	7.7	0.0	0.0	13.3	2	13.5	26.7	26.7
Asia	22	1.2	1.1	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
America	10	0.5	0.2	0.3	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	0.0	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Other Nationality	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
Multi-nationality	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
No Nationality	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
Not Stated	45	2.4	1.3	0.9	0.2	2	7.7	7.7	0.0	0.0	42.6	0	0.0	42.6	42.6
Total	1,881	100.0	74.0	24.0	2.0	26	100.0	88.5	11.5	0.0	13.6	28	14.9	28.3	24.2

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

Note: See Appendix J for a description of the classification system for nationalities.

Table 3.31
Father's Nationality

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

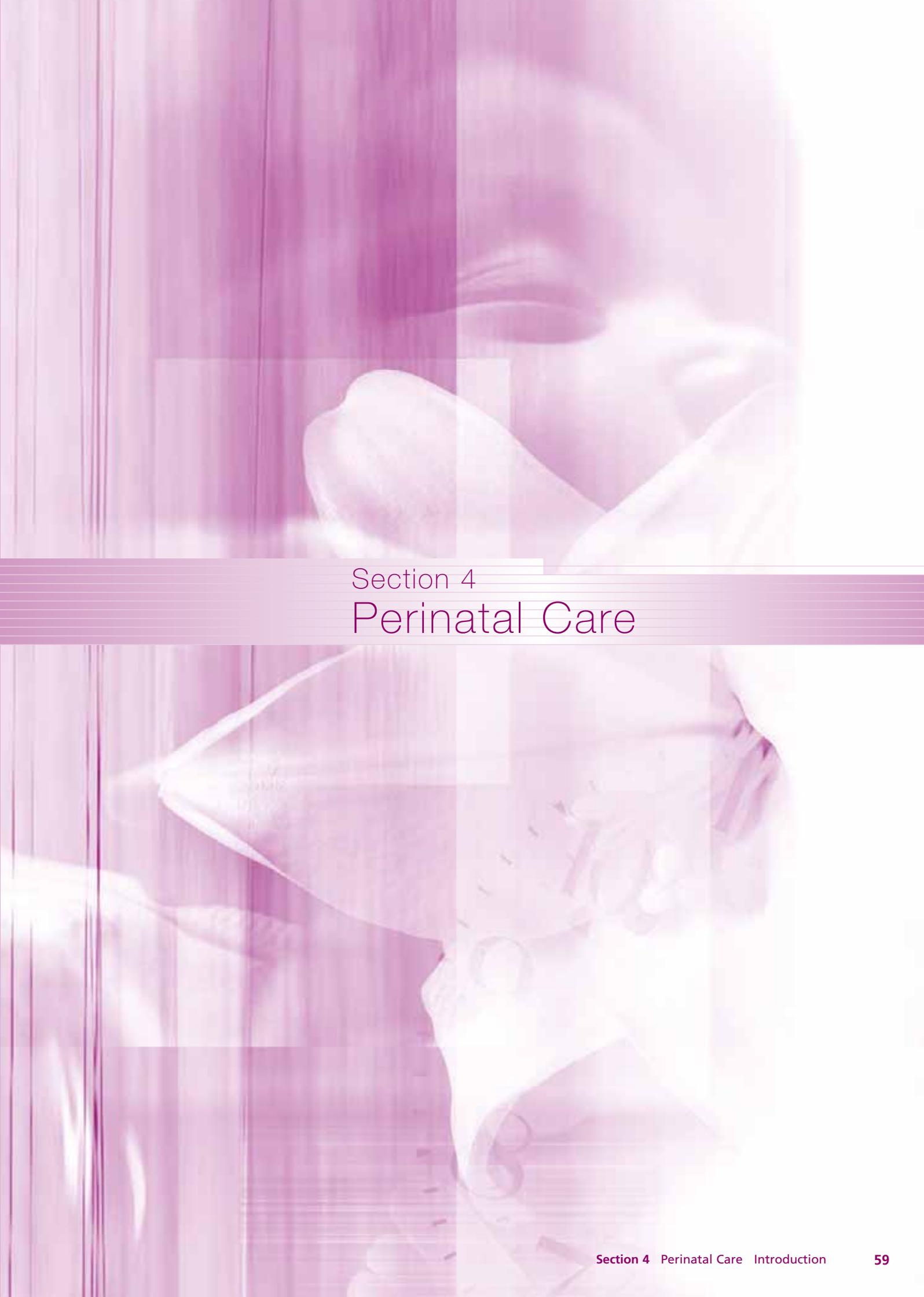
Multiple Births

Father's Nationality	Live Births	Per Cent (%) Live Birth	Per Cent (%) Live Births by Mother's Marital Status			Stillbirths	Per Cent (%) Stillbirth	Per Cent (%) Stillbirths by Mother's Marital Status			Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
			Married	Never Married	Other*			Married	Never Married	Other*					
Ireland	1,088	57.8	53.4	4.0	0.4	18	69.2	69.2	0.0	0.0	16.3	18	16.5	32.5	27.3
UK	21	1.1	0.9	0.1	0.1	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
EU15 (excluding Ireland and the UK)	12	0.6	0.5	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
EU15 to EU25	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
Accession States															
Rest of Europe	9	0.5	0.5	0.0	0.0	1	3.8	3.8	0.0	0.0	100.0	0	0.0	100.0	0.0
Africa	98	5.2	4.9	0.2	0.1	2	7.7	7.7	0.0	0.0	20.0	2	20.4	40.0	40.0
Asia	15	0.8	0.8	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
America	6	0.3	0.2	0.1	0.0	0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0
Australia	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
New Zealand and Other Oceania	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
Other Nationality	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
Multi-nationality	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
No Nationality	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
Not Stated	240	12.8	12.7	0.0	0.1	2	7.7	7.7	7.7	0.0	8.3	1	4.2	12.4	8.3
Not Applicable	390	20.7	0.0	19.5	1.3	3	11.5	11.5	0.0	11.5	7.6	7	17.9	25.4	25.4
Total	1,881	100.0	74.0	24.0	2.0	26	100.0	88.5	11.5	0.0	13.6	28	14.9	28.3	24.2

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

Note: See Appendix J for a description of the classification system for nationalities.

'Not applicable' applies to father's nationality only. Where mother is not married, the General Register Office does not require father's details to register the birth, and as such this information is generally not provided.



Section 4
Perinatal Care

Section 4 Perinatal Care

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.

Section 4 Perinatal Care

Part 1 Singleton Births

Section 4 Perinatal Care

Part 1 Singleton Births

Table 4.1
Type of Antenatal Care

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Type of Antenatal Care	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Hospital/Obstetrician	13,010	21.6	77	5.9	38	2.9	8.8	6.1
General Practitioner Only	162	0.3	4	24.1	0	0.0	24.1	24.1
Hospital and G.P. Combined	46,571	77.4	223	4.8	99	2.1	6.9	5.2
None	273	0.5	8	28.5	3	11.0	39.1	39.1
Midwife Only	88	0.1	1	11.2	0	0.0	11.2	11.2
Unknown	82	0.1	0	0.0	0	0.0	0.0	0.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Table 4.2
Mother's Length of Stay in Hospital Prior to Delivery

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Antenatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0-1 Days	54,075	90.1	260	4.8	104	1.9	6.7	5.1
2 Days	3,099	5.2	22	7.0	9	2.9	9.9	7.1
3-5 Days	1,746	2.9	21	11.9	9	5.2	17.0	12.5
6-8 Days	454	0.8	5	10.9	5	11.0	21.8	8.8
9-11 Days	179	0.3	0	0.0	2	11.2	11.2	11.2
12-14 Days	101	0.2	1	9.8	1	9.9	19.6	19.6
2 weeks or more	240	0.4	2	8.3	6	25.0	33.1	25.0
Not Stated	90	0.2	2	21.7	3	33.3	54.3	33.3
Total	59,984	100.0	313	5.2	139	2.3	7.5	5.6

Notes:

- 'Not Stated' includes;

41 births where place of birth was recorded as domiciliary but birth was registered by a hospital.

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.

8 births where place of birth was recorded as 'born before arrival'. Mother's admission date was after the infant's date of birth, therefore, antenatal length of stay was not applicable.

43 births where mother's admission date was not stated.

- Domiciliary births, of which there were 202, 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, 2004

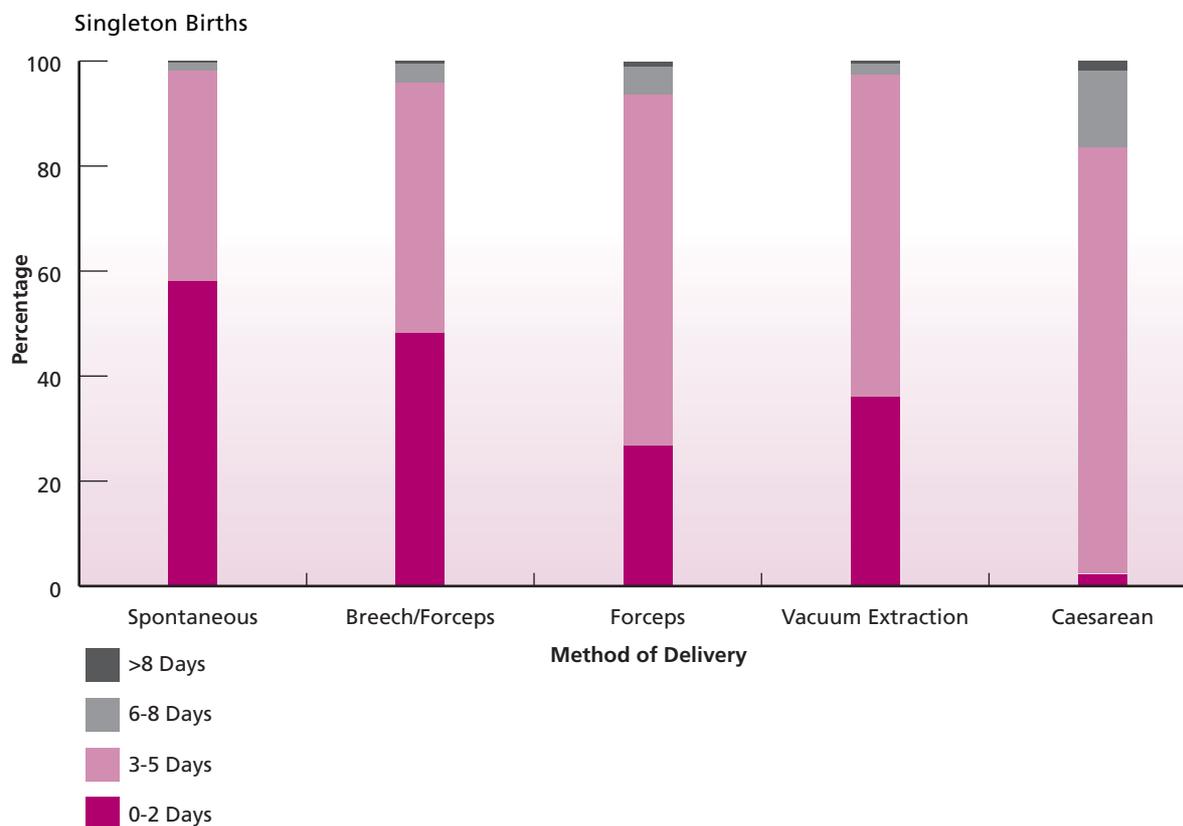
Singleton Births

Postnatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0-1 Days	7,979	13.3	174	21.3	52	6.5	27.7	21.0
2 Days	16,344	27.2	79	4.8	38	2.3	7.1	5.2
3-5 Days	32,303	53.9	48	1.5	42	1.3	2.8	2.0
6-8 Days	2,908	4.8	6	2.1	3	1.0	3.1	2.4
9-11 Days	239	0.4	2	8.3	2	8.4	16.6	16.6
12-14 Days	66	0.1	1	14.9	0	0.0	14.9	14.9
2 weeks or more	63	0.1	2	30.8	1	15.9	46.2	15.9
Not Stated	82	0.1	1	12.0	1	12.2	24.1	24.1
Total	59,984	100.0	313	5.2	139	2.3	7.5	5.6

Note:

- 'Not Stated' includes 40 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.
- Domiciliary births, of which there were 202, are excluded from this table. See Appendix H for detailed analysis.

Figure 4.1
Mother's Postnatal Length of Stay: Cumulative Percentages by Method of Delivery, 2004



Note: Data are compiled from Appendix F, Table F9. '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, 2004

Singleton Births

Method of Delivery	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Spontaneous	36,426	60.5	226	6.2	81	2.2	8.4	6.3
Breech/Forceps	182	0.3	44	194.7	15	82.4	261.1	197.1
Forceps	1,495	2.5	3	2.0	1	0.7	2.7	2.7
Vacuum Extraction	7,288	12.1	3	0.4	6	0.8	1.2	1.0
Caesarean	14,580	24.2	33	2.3	37	2.5	4.8	3.5
Other Specified & Combined	196	0.3	3	15.1	0	0.0	15.1	15.1
Not Stated	19	0.0	1	50.0	0	0.0	50.0	50.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Table 4.5
Advance Hospital Bookings

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Advance Hospital Bookings	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Booked	59,006	98.4	290	4.9	128	2.2	7.0	5.2
Not Booked	906	1.5	23	24.8	11	12.1	36.6	30.3
Not Stated	72	0.1	0	0.0	0	0.0	0.0	0.0
Total	59,984	100.0	313	5.2	139	2.3	7.5	5.6

Note:

- 'Not Stated' includes 35 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, hospital bookings were not applicable.
- Domiciliary births, of which there were 202, are excluded from this table. See Appendix H for detailed analysis.

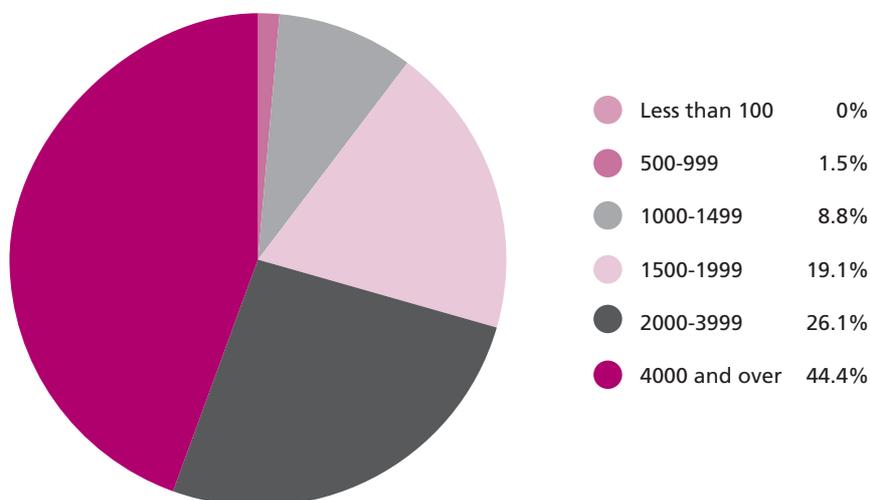
Table 4.6
Size of Maternity Unit (number of live births and stillbirths annually)

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Size of Maternity Unit	Number of Hospitals	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Less than 100	5	9	0.0	0	0.0	0	0.0	0.0	0.0
500-999	1	945	1.5	3	3.2	0	0.0	3.2	3.2
1000-1499	4	5,471	8.8	33	6.0	17	3.1	9.1	7.3
1500-1999	7	11,808	19.1	59	5.0	23	1.9	6.9	5.1
2000-3999	6	16,159	26.1	106	6.5	56	3.5	10.0	7.7
4000 and over	4	27,473	44.4	138	5.0	71	2.6	7.6	5.5
Total	27	61,865	100.0	339	5.4	167	2.7	8.1	6.1

Note: This table includes singleton and multiple births but excludes domiciliary births of which there were 202 in total.

Figure 4.2
Percentage of Live Births by Size of Maternity Unit, 2004



Note: See Table 4.6 for data. The size of unit refers to the number of live births and stillbirths occurring in 2004.

Table 4.7
Inter-Hospital Transfer of Infants

Live Births, Early Neonatal Deaths and Mortality Rate, 2004

Singleton Births

Infant Transfers	Live Births	Per Cent (%) Live Births	Early Neonatal Deaths	Early Neonatal Rate
Transferred	344	0.6	9	26.2
Not Transferred	59,575	99.3	128	2.1
Not Stated	65	0.1	2	30.8
Total	59,984	100.0	139	2.3

Note:

- 'Not Stated' includes 32 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, transfer indicators were not applicable.
- Domiciliary births, of which there were 202, are excluded from this table. See Appendix H for detailed analysis.

Table 4.8
Rubella: Immune Status of Mother
Numbers and Percentages, 2004

Singleton Births

Rubella	Frequency	Per Cent (%)
Immune	54,779	90.6
Not Immune	1,597	2.6
Unknown	4,122	6.8
Not Stated	1	0.0
Total	60,499	100.0

Table 4.9
Age of Mother by Infant's Type of Feeding
Numbers and Percentages, 2004

Singleton Births

Age of Mother	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Frequency					
Row Per Cent					
Col. Per Cent					
Under 15 Years	4	1	0	0	5
	80.0	20.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0
15-19 Years	1,904	490	56	8	2,458
	77.5	19.9	2.3	0.3	100.0
	5.9	1.9	2.9	5.0	4.1
20-24 Years	5,485	2,423	211	29	8,148
	67.3	29.7	2.6	0.4	100.0
	16.9	9.5	11.1	18.2	13.5
25-29 Years	7,770	5,845	479	32	14,126
	55.0	41.4	3.4	0.2	100.0
	23.9	22.8	25.2	20.1	23.5
30-34 Years	10,456	9,583	698	45	20,782
	50.3	46.1	3.4	0.2	100.0
	32.1	37.4	36.7	28.3	34.5
35-39 Years	5,751	6,044	381	35	12,211
	47.1	49.5	3.1	0.3	100.0
	17.7	23.6	20.0	22.0	20.3
40-44 Years	1,056	1,140	74	8	2,278
	46.4	50.0	3.3	0.4	100.0
	3.3	4.5	3.9	5.0	3.8
45 Years and over	22	34	2	0	58
	37.9	58.6	3.5	0.0	100.0
	0.1	0.1	0.1	0.0	0.1
Not Stated	83	34	1	2	120
	69.2	28.3	0.8	1.7	100.0
	0.3	0.1	0.1	1.3	0.2
Total	32,531	25,594	1,902	159	60,186
	54.1	42.5	3.2	0.3	100.0
	100.0	100.0	100.0	100.0	100.0

Note:

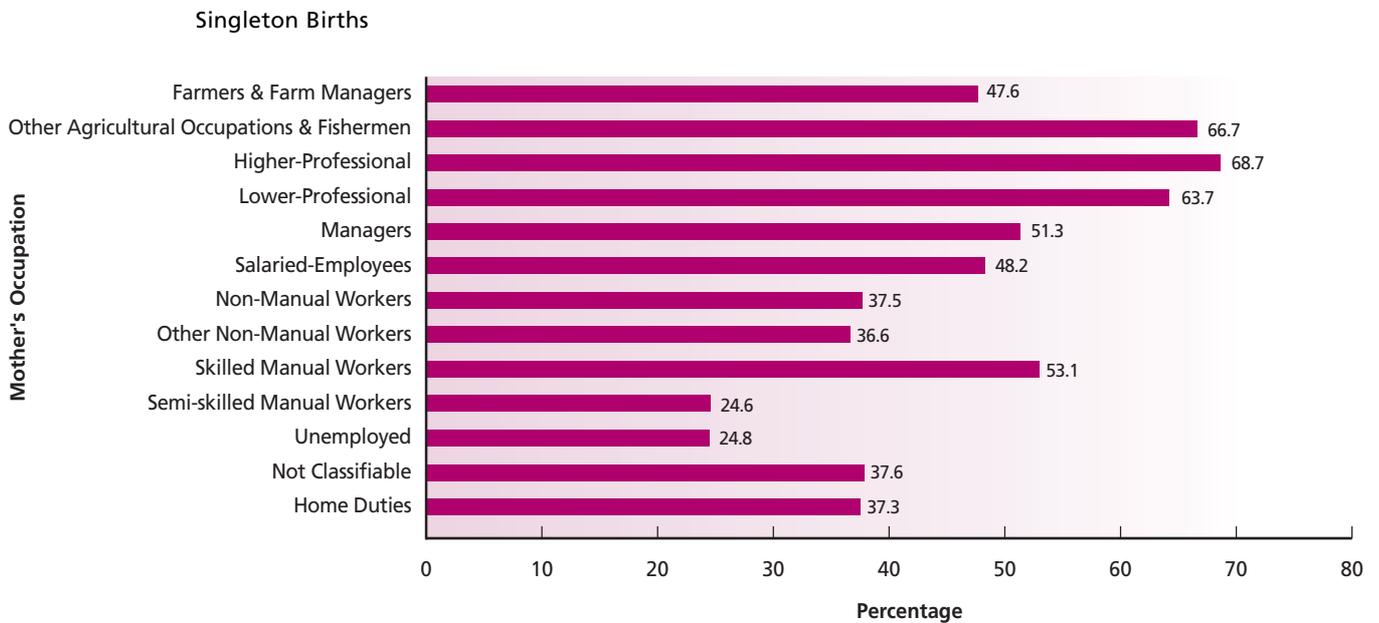
- See Appendix F for an explanation of the table format.
- 'Not Stated' contains 95 Early Neonatal Deaths for which Type of Feeding was not stated.

Figure 4.3
Percentage of Mothers Breastfeeding by Father's Occupation, 2004



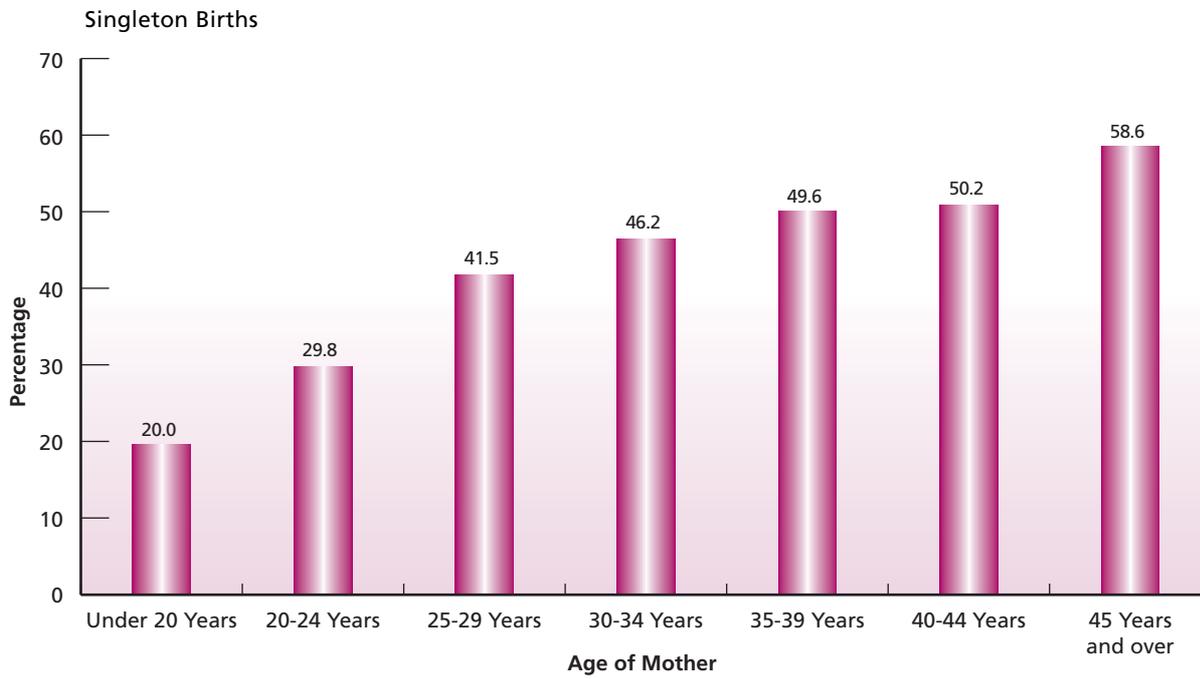
Note: Data are compiled from Appendix F, Table F15. 'Not Stated' data are not included in the calculation of percentages.

Figure 4.4
Percentage of Mothers Breastfeeding by Mother's Occupation, 2004



Note:
 -Data are compiled from Appendix F, Table F16. 'Not Stated' data are not included in the calculation of percentages.
 -Categories where percentages would be based on <50 births are not included in this graph.

Figure 4.5
Percentage of Mothers Breastfeeding by Age of Mother, 2004



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

Section 4
Perinatal Care

Part 2 Multiple Births

Section 4 Perinatal Care

Part 2 Multiple Births

Table 4.10
Type of Antenatal Care

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Type of Antenatal Care	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Hospital/Obstetrician	614	32.6	9	14.4	9	14.7	28.9	24.2
General Practitioner Only	2	0.1	0	0.0	2	1000.0	1000.0	1000.0
Hospital and G.P. Combined	1,253	66.6	16	12.6	17	13.6	26.0	22.2
None	8	0.4	1	111.1	0	0.0	111.1	111.1
Unknown	4	0.2	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 4.11
Mother's Length of Stay in Hospital Prior to Delivery

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Antenatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0-1 Days	1,449	77.0	17	11.6	17	11.7	23.2	19.8
2 Days	101	5.4	2	19.4	2	19.8	38.8	19.8
3-5 Days	158	8.4	6	36.6	6	38.0	73.2	73.2
6-8 Days	64	3.4	0	0.0	0	0.0	0.0	0.0
9-11 Days	33	1.8	1	29.4	0	0.0	29.4	29.4
12-14 Days	14	0.7	0	0.0	0	0.0	0.0	0.0
2 weeks or more	58	3.1	0	0.0	2	34.5	34.5	34.5
Not Stated	4	0.2	0	0.0	1	250.0	250.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Note: There were no domiciliary multiple births.

Table 4.12
Mother's Length of Stay in Hospital After Delivery

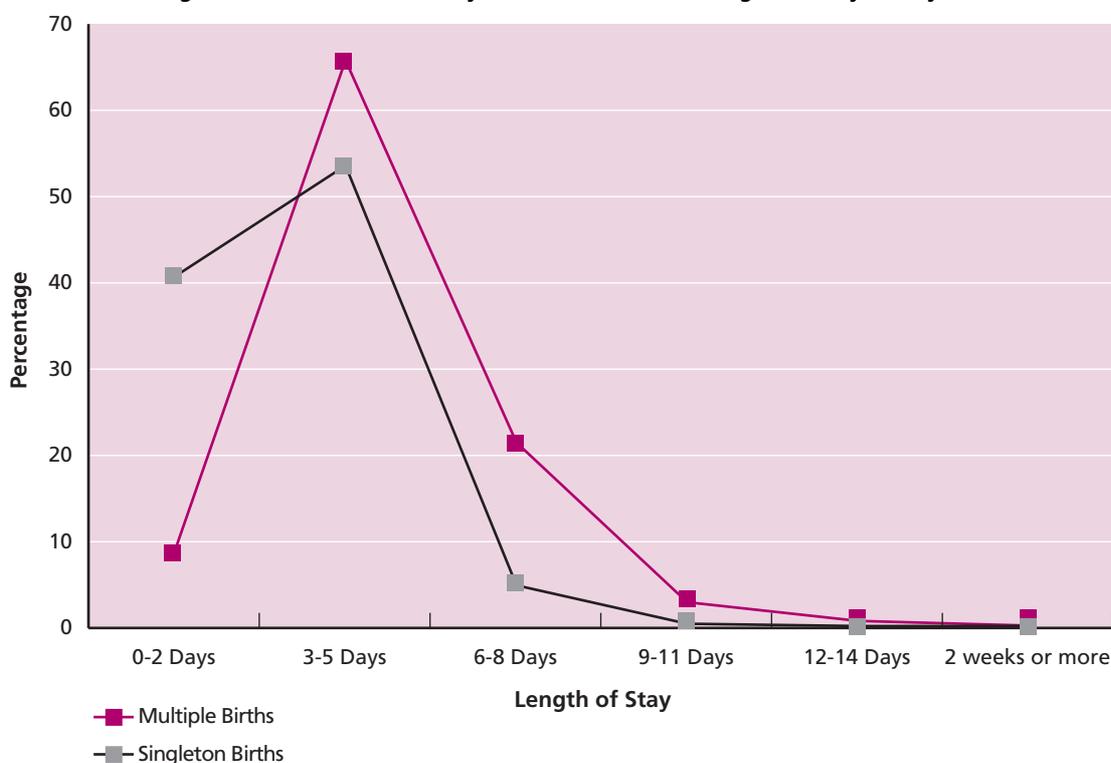
Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Postnatal Length of Stay	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0-1 Days	40	2.1	4	90.9	8	200.0	272.7	255.8
2 Days	118	6.3	7	56.0	6	50.8	104.0	96.8
3-5 Days	1,245	66.2	10	8.0	9	7.2	15.1	12.8
6-8 Days	404	21.5	4	9.8	5	12.4	22.1	17.2
9-11 Days	55	2.9	0	0.0	0	0.0	0.0	0.0
12-14 Days	13	0.7	0	0.0	0	0.0	0.0	0.0
2 weeks or more	2	0.1	1	333.3	0	0.0	333.3	0.0
Not Stated	4	0.2	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Note: There were no domiciliary multiple births.

Figure 4.6
Percentage Distribution of Births by Mother's Postnatal Length of Stay in Days, 2004



Note: 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, 2004

Multiple Births

Method of Delivery	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Spontaneous	531	28.2	9	16.7	15	28.2	44.4	39.1
Breech/Forceps	87	4.6	1	11.4	2	23.0	34.1	34.1
Forceps	44	2.3	0	0.0	0	0.0	0.0	0.0
Vacuum Extraction	162	8.6	0	0.0	1	6.2	6.2	6.2
Caesarean	1,050	55.8	16	15.0	10	9.5	24.4	19.8
Other Specified & Combined	7	0.4	0	0.0	0	0.0	0.0	0.0
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 4.14
Advance Hospital Bookings

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Advance Hospital Bookings	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
Booked	1,813	96.4	25	13.6	26	14.3	27.7	23.5
Not Booked	68	3.6	1	14.5	2	29.4	43.5	43.5
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Note: There were no domiciliary multiple births.

Table 4.15
Inter-Hospital Transfer of Infants

Live Births, Early Neonatal Deaths and Mortality Rate, 2004

Multiple Births

Infant Transfers	Live Births	Per Cent (%) Live Births	Early Neonatal Deaths	Early Neonatal Rate
Transferred	66	3.5	1	15.2
Not Transferred	1,810	96.2	27	14.9
Not Stated	5	0.3	0	0.0
Total	1,881	100.0	28	14.9

Note: There were no domiciliary multiple births.

Table 4.16
Rubella: Immune Status of Mother
Numbers and Percentages, 2004

Multiple Births

Rubella	Frequency	Per Cent (%)
Immune	1,659	87.0
Not Immune	57	3.0
Unknown	191	10.0
Total	1,907	100.0

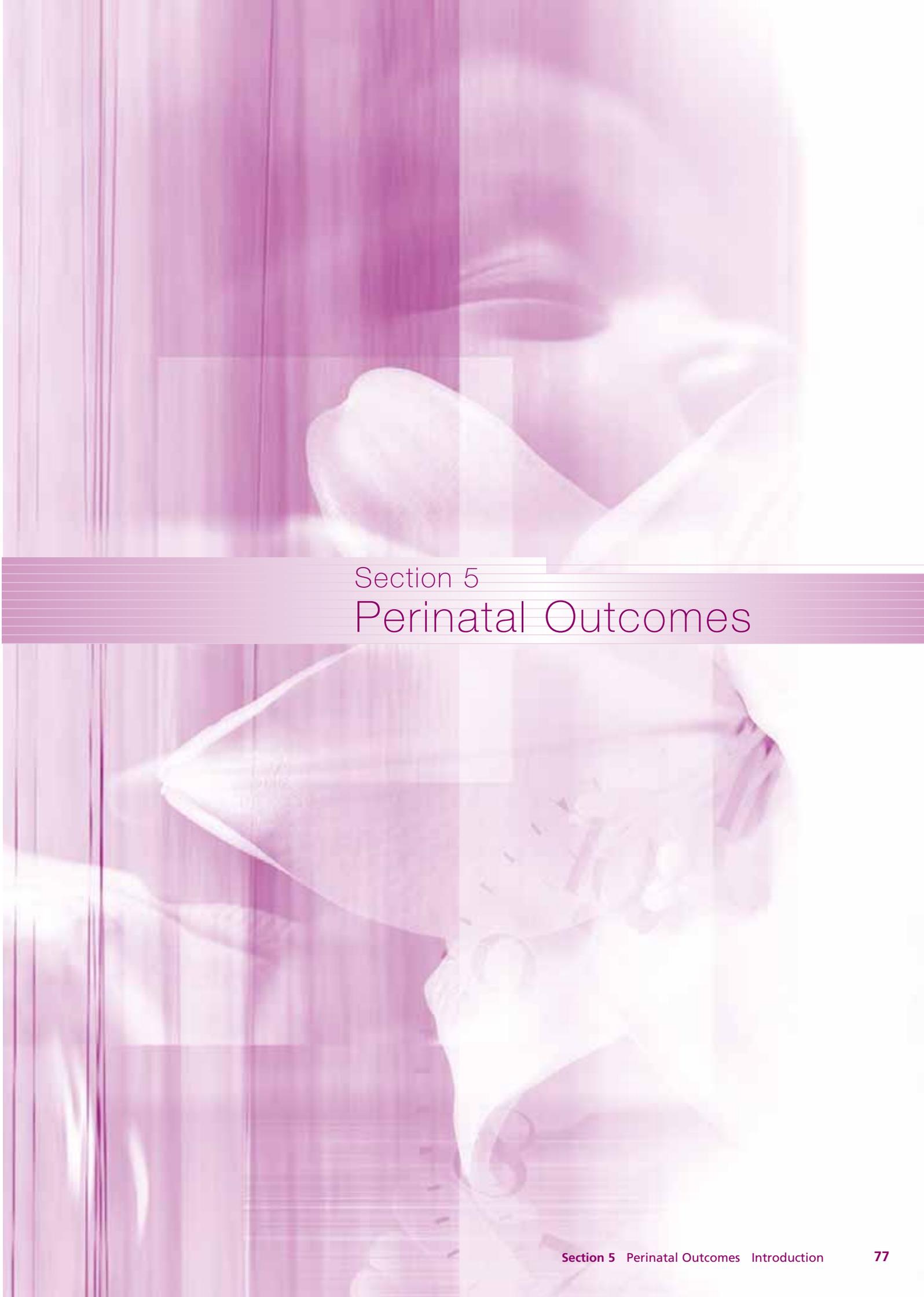
Table 4.17
Age of Mother by Infant's Type of Feeding
Numbers and Percentages, 2004

Multiple Births

Age of Mother	Type of Feeding				
Frequency Row Per Cent Col. Per Cent	Artificial	Breast	Combined	Not Stated	Total
15-19 Years	28	13	4	3	48
	58.3	27.1	8.3	6.3	100.0
	2.4	2.3	2.9	16.7	2.6
20-24 Years	102	39	0	2	143
	71.3	27.3	0.0	1.4	100.0
	8.7	7.0	0.0	11.1	7.6
25-29 Years	244	119	37	6	406
	60.1	29.3	9.1	1.5	100.0
	20.9	21.4	26.8	33.3	21.6
30-34 Years	453	204	54	7	718
	63.1	28.4	7.5	1.0	100.0
	38.8	36.6	39.1	38.9	38.2
35-39 Years	293	158	37	0	488
	60.0	32.4	7.6	0.0	100.0
	25.1	28.4	26.8	0.0	25.9
40-44 Years	43	23	6	0	72
	59.7	31.9	8.3	0.0	100.0
	3.7	4.1	4.4	0.0	3.8
45 Years and over	3	1	0	0	4
	75.0	25.0	0.0	0.0	100.0
	0.3	0.2	0.0	0.0	0.2
Not Stated	2	0	0	0	2
	100.0	0.0	0.0	0.0	100.0
	0.2	0.0	0.0	0.0	0.1
Total	1,168	557	138	18	1,881
	62.1	29.6	7.3	1.0	100.0
	100.0	100.0	100.0	100.0	100.0

Note:

- See Appendix F for an explanation of the table format.
- 'Not Stated' contains 12 Early Neonatal Deaths for which Type of Feeding was not stated.



Section 5
Perinatal Outcomes

Section 5 Perinatal Outcomes

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 World Health Organisation in the ninth revision of the International Classification of Diseases. 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 post-mortem analysis are also outlined.

Section 5
Perinatal Outcomes

Part 1 Singleton Births

Section 5 Perinatal Outcomes

Part 1 Singleton Births

Table 5.1
Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths
and Mortality Rates by Birthweight, 2004

Singleton Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Ante-partum Stillbirths	Intra-partum Stillbirths	Not Stated	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	62	0.1	50	7	5	500.0	34	548.4	774.2	756.5
750-999	90	0.1	20	4	4	237.3	13	144.4	347.5	259.6
1000-1249	104	0.2	19	4	3	200.0	7	67.3	253.8	184.9
1250-1499	124	0.2	17	3	1	144.8	6	48.4	186.2	125.9
1500-1999	422	0.7	32	2	10	94.4	17	40.3	130.9	87.8
2000-2499	1,430	2.4	26	2	5	22.6	17	11.9	34.2	20.8
2500-2999	6,589	10.9	32	4	5	6.2	10	1.5	7.7	5.6
3000-3499	19,548	32.5	29	1	5	1.8	19	1.0	2.8	2.2
3500-3999	21,140	35.1	10	0	2	0.6	14	0.7	1.2	0.9
4000-4499	8,894	14.8	5	0	2	0.8	2	0.2	1.0	1.0
4500 and over	1,761	2.9	3	0	0	1.7	0	0.0	1.7	1.7
Not Stated	22	0.0	0	0	1	43.5	1	45.5	87.0	87.0
Total	60,186	100.0	243	27	43	5.2	140	2.3	7.5	5.6

Table 5.2
Stillbirths, Early Neonatal Deaths and Mortality Rates by Cause of Death, 2004

Singleton Births

ICD Codes	Cause of Death	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Total Deaths	Perinatal Mortality Rate
	Congenital Anomalies						
740	Anencephalus	13	0.2	8	0.1	21	0.4
741	Spina Bifida	1	0.0	0	0.0	1	0.0
742	Other Central Nervous System Anomalies	4	0.1	4	0.1	8	0.1
743	Other Congenital Anomalies	13	0.2	11	0.2	24	0.4
746	Other Congenital Anomalies of the Heart	3	0.1	7	0.1	10	0.2
747	Other Congenital Anomalies of Circulatory System	0	0.0	1	0.0	1	0.0
748	Congenital Anomalies of Respiratory System	0	0.0	12	0.2	12	0.2
749.0-751.9	Cleft Palate & Lip, Other Digestive Anomalies	1	0.0	2	0.0	3	0.1
753	Congenital Anomalies of Urinary System	4	0.1	6	0.1	10	0.2
754.0-756.9	Musculoskeletal System	1	0.0	4	0.1	5	0.1
758	Chromosomal Anomalies including Downs Syndrome	15	0.3	7	0.1	22	0.4
	Maternal Conditions and Complications in Pregnancy						
760	Maternal Hypertensive Disorders	8	0.1	0	0.0	8	0.1
760.1-761.9	Other Maternal Complications	6	0.1	7	0.1	13	0.2
762.1	Other Placental Separation and Haemorrhage	38	0.6	6	0.1	44	0.7
762.2	Other Morphological and Functional Anomalies of Placenta	25	0.4	1	0.0	26	0.4
762.4	Prolapsed Cord	1	0.0	0	0.0	1	0.0
762.5	Other Compression of Umbilical Cord	12	0.2	0	0.0	12	0.2
762.6-762.9	Other Complications of Placenta, Cord & Membrane	10	0.2	3	0.1	13	0.2
763.1	Other Malpresentation or Disproportion	0	0.0	1	0.0	1	0.0
763.2-763.9	Other Complications of Labour/Delivery	5	0.1	0	0.0	5	0.1
	Slow Foetal Growth, Malnutrition & Immaturity						
764	Slow Foetal Growth & Malnutrition	6	0.1	0	0.0	6	0.1
765	Short Gestation and Low Birthweight	14	0.2	22	0.4	36	0.6
	Birth Trauma						
768	Intrauterine Hypoxia/Anoxia	18	0.3	6	0.1	24	0.4
769	Respiratory Distress Syndrome	0	0.0	6	0.1	6	0.1
770	Respiratory Conditions of Foetus/Newborn	2	0.0	11	0.2	13	0.2
	Other Foetal and Neonatal Conditions						
771	Perinatal Infections	9	0.2	4	0.1	13	0.2
772	Neonatal/Foetal Haemorrhage	1	0.0	2	0.0	3	0.1
773	Haemolytic Diseases	1	0.0	0	0.0	1	0.0
775.0-775.9	Metabolic and Endocrine Disorders	3	0.1	0	0.0	3	0.1
778	Integument and Temperature Regulation	13	0.2	2	0.0	15	0.3
	Maceration, Ill-Defined Conditions & All Other Causes						
779.9	Maceration	9	0.2	0	0.0	9	0.2
780-796, 799	Symptoms, Signs, and Ill-Defined Conditions	76	1.3	6	0.1	82	1.4
	All Other Causes	1	0.0	1	0.0	2	0.0
Total		313	5.2	140	2.3	453	7.5

Table 5.3
Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2004

Singleton Births

Birthweight (grams)	Anencephalus		Spina Bifida		Other Central Nervous System Abnormalities		Congenital Anomalies of the Heart		Chromosomal Anomalies		Other Congenital Anomalies	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
500-749	1	8.1	0	0.0	0	0.0	0	0.0	2	16.1	6	48.4
750-999	3	25.4	0	0.0	0	0.0	2	16.9	3	25.4	6	50.8
1000-1249	4	30.8	0	0.0	0	0.0	0	0.0	2	15.4	5	38.5
1250-1499	1	6.9	0	0.0	1	6.9	1	6.9	2	13.8	5	34.5
1500-1999	7	15.0	0	0.0	4	8.6	0	0.0	5	10.7	6	12.9
2000-2499	3	2.1	0	0.0	1	0.7	1	0.7	2	1.4	13	8.9
2500-2999	1	0.2	0	0.0	1	0.2	3	0.5	4	0.6	5	0.8
3000-3499	1	0.1	1	0.1	0	0.0	3	0.2	1	0.1	4	0.2
3500-3999	0	0.0	0	0.0	1	0.0	1	0.0	1	0.0	4	0.2
4000-4499	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4500 and over	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Not Stated	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	21	0.3	1	0.0	8	0.1	11	0.2	22	0.4	54	0.9

Table 5.3 Continued
Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2004

Singleton Births

Birthweight (grams)	Maternal Complications		Placenta, Cord, Membranes		Other Complications of Labour		Slow Foetal Growth		Birth Trauma		Hypoxia/Anoxia	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
500-749	9	72.6	22	177.4	3	24.2	29	233.9	0	0.0	6	48.4
750-999	4	33.9	5	42.4	0	0.0	4	33.9	0	0.0	4	33.9
1000-1249	2	15.4	6	46.2	0	0.0	4	30.8	0	0.0	2	15.4
1250-1499	0	0.0	4	27.6	1	6.9	1	6.9	0	0.0	2	13.8
1500-1999	2	4.3	14	30.0	0	0.0	3	6.4	0	0.0	4	8.6
2000-2499	1	0.7	11	7.5	0	0.0	0	0.0	0	0.0	4	2.7
2500-2999	1	0.2	14	2.1	0	0.0	0	0.0	0	0.0	4	0.6
3000-3499	1	0.1	13	0.7	0	0.0	0	0.0	0	0.0	7	0.4
3500-3999	1	0.0	4	0.2	1	0.0	0	0.0	0	0.0	8	0.4
4000-4499	0	0.0	2	0.2	1	0.1	0	0.0	0	0.0	1	0.1
4500 and over	0	0.0	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0
Not Stated	0	0.0	0	0.0	0	0.0	1	43.5	0	0.0	1	43.5
Total	21	0.3	96	1.6	6	0.1	42	0.7	0	0.0	43	0.7

Table 5.3 Continued

Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2004

Singleton Births

Birthweight (grams)	Perinatal Infections		Foetal/Neonatal Haemorrhage		Haemolytic Disease		Metabolic, Endocrine Disturbances		Integument, Temperature Regulations		Maceration	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
500-749	6	48.4	0	0.0	0	0.0	0	0.0	1	8.1	3	24.2
750-999	5	42.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1000-1249	0	0.0	0	0.0	0	0.0	0	0.0	1	7.7	1	7.7
1250-1499	0	0.0	0	0.0	1	6.9	1	6.9	2	13.8	1	6.9
1500-1999	0	0.0	0	0.0	0	0.0	0	0.0	4	8.6	0	0.0
2000-2499	0	0.0	0	0.0	0	0.0	0	0.0	4	2.7	1	0.7
2500-2999	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	0.3
3000-3499	2	0.1	2	0.1	0	0.0	0	0.0	3	0.2	1	0.1
3500-3999	0	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4000-4499	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4500 and over	0	0.0	0	0.0	0	0.0	2	1.1	0	0.0	0	0.0
Not Stated	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	13	0.2	3	0.0	1	0.0	3	0.0	15	0.2	9	0.1

Table 5.3 Continued

Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2004

Singleton Births

Birthweight (grams)	Symptoms, Signs and Ill-Defined Conditions		All Other Causes		Not Stated		All Causes of Perinatal Mortality	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
500-749	8	64.5	0	0.0	0	0.0	96	774.2
750-999	5	42.4	0	0.0	0	0.0	41	347.5
1000-1249	6	46.2	0	0.0	0	0.0	33	253.8
1250-1499	4	27.6	0	0.0	0	0.0	27	186.2
1500-1999	12	25.8	0	0.0	0	0.0	61	130.9
2000-2499	9	6.2	0	0.0	0	0.0	50	34.2
2500-2999	16	2.4	0	0.0	0	0.0	51	7.7
3000-3499	14	0.7	1	0.1	0	0.0	54	2.8
3500-3999	3	0.1	1	0.0	0	0.0	26	1.2
4000-4499	5	0.6	0	0.0	0	0.0	9	1.0
4500 and over	0	0.0	0	0.0	0	0.0	3	1.7
Not Stated	0	0.0	0	0.0	0	0.0	2	87.0
Total	82	1.4	2	0.0	0	0.0	453	7.5

Note: See Appendix D for a list of the International Classification of Disease codes corresponding to each cause of death.

Table 5.4
Age at Death
Early Neonatal Deaths, 2004

Singleton Births

Time		Frequency	Per Cent
Completed Hours	<1	31	22.1
	1	19	13.6
	2	5	3.6
	3	5	3.6
	4	3	2.1
	5	1	0.7
	6	2	1.4
	7	7	5.0
	8	3	2.1
	9	1	0.7
	10	3	2.1
	11	1	0.7
	12	2	1.4
	13	2	1.4
	16	2	1.4
	19	1	0.7
	22	2	1.4
Total under 1 Day		90	64.3
Days	1	15	10.7
	2	6	4.3
	3	9	6.4
	4	5	3.6
	5	9	6.4
	6	1	0.7
Total under 1 Week		45	32.1
Unknown		5	3.6
Total		140	100.0

Table 5.5
Percentage Distribution of Live Births
by Infant's Length of Stay in Hospital, 2004

Singleton Births

Infant's Length of Stay (Days)	Live Births	Per Cent (%) Live Births
0-2	23,866	39.9
3-5	31,378	52.4
6-10	3,286	5.5
11-28	816	1.4
29 or more	397	0.7
Not Stated	102	0.2
Total	59,845	100.0

Note:

- This table does not include domiciliary births and early neonatal deaths.
- 'Not Stated' includes 40 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother and infant were 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, 2004

Singleton Births

Post-Mortem	Type of Death		
Frequency Row Per Cent Col. Per Cent	Early Neonatal Deaths	Stillbirths	Total
Post-Mortem	50	125	175
	28.6	71.4	100.0
	35.7	39.9	38.6
No Post-Mortem	77	176	253
	30.4	69.6	100.0
	55.0	56.2	55.8
Not Stated	13	12	25
	52.0	48.0	100.0
	9.3	3.8	5.5
Total	140	313	453
	30.9	69.1	100.0
	100.0	100.0	100.0

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

Section 5
Perinatal Outcomes

Part 2 Multiple Births

Section 5 Perinatal Outcomes

Part 2 Multiple Births

Table 5.7
Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths
and Mortality Rates by Birthweight, 2004

Multiple Births

Birthweight (grams)	Live Births	Per Cent (%) Live Births	Ante- partum Stillbirths	Intra- partum Stillbirths	Not Stated	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
500-749	20	1.1	4	2	1	259.3	13	650.0	740.7	730.8
750-999	31	1.6	2	0	0	60.6	7	225.8	272.7	250.0
1000-1249	49	2.6	1	0	1	39.2	1	20.4	58.8	58.8
1250-1499	63	3.3	0	0	0	0.0	4	63.5	63.5	48.4
1500-1999	227	12.1	2	0	0	8.7	1	4.4	13.1	8.8
2000-2499	466	24.8	6	0	0	12.7	1	2.1	14.8	10.6
2500-2999	639	34.0	2	0	0	3.1	0	0.0	3.1	3.1
3000-3499	327	17.4	4	0	0	12.1	1	3.1	15.1	9.1
3500-3999	54	2.9	0	0	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	0.0
4500 & over	2	0.1	0	0	0	0.0	0	0.0	0.0	0.0
Not Stated	2	0.1	1	0	0	333.3	0	0.0	333.3	333.3
Total	1,881	100.0	22	2	2	13.6	28	14.9	28.3	24.2

Table 5.8
Stillbirths, Early Neonatal Deaths, and Mortality Rates by Cause of Death, 2004

Multiple Births

Cause of Death	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Total Deaths	Perinatal Mortality Rate
Anencephalus	0	0.0	2	1.1	2	1.1
Other Central Nervous System Anomalies	1	0.5	0	0.0	1	0.5
Other Congenital Anomalies	0	0.0	2	1.1	2	1.1
Other Congenital Anomalies of Circulatory System	0	0.0	1	0.5	1	0.5
Cleft Palate & Lip, Other Digestive Anomalies	1	0.5	0	0.0	1	0.5
Congenital Anomalies of Urinary System	1	0.5	0	0.0	1	0.5
Other Maternal Complications	1	0.5	1	0.5	2	1.1
Other Placental Separation and Haemorrhage	1	0.5	1	0.5	2	1.1
Other Complications of Placenta, Cord & Membrane	12	6.3	3	1.6	15	7.9
Prolapsed Cord	1	0.5	0	0.0	1	0.5
Other Compression of Umbilical Cord	1	0.5	0	0.0	1	0.5
Short Gestation and Low Birthweight	3	1.6	10	5.3	13	6.8
Intrauterine Hypoxia/Anoxia	2	1.1	0	0.0	2	1.1
Respiratory Distress Syndrome	0	0.0	2	1.1	2	1.1
Respiratory Conditions of Foetus/Newborn	0	0.0	3	1.6	3	1.6
Perinatal Infections	0	0.0	1	0.5	1	0.5
Metabolic and Endocrine Disorders	0	0.0	2	1.1	2	1.1
Symptoms, Signs, and ill-Defined Conditions	2	1.1	0	0.0	2	1.1
Total	26	13.6	28	14.9	54	28.3

Note: See Appendix D for a list of the International Classification of Diseases codes corresponding to each cause of death.

Table 5.9
Number of Perinatal Deaths by Birthweight and Cause of Death, 2004

Multiple Births

Birthweight (grams)	500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	Not stated	Total
Anencephalus	0	0	0	0	1	1	0	0	0	2
Other Central Nervous System Anomalies	0	0	0	0	0	1	0	0	0	1
Other Congenital Anomalies	1	0	0	1	0	0	0	2	0	4
Congenital Anomalies of the Heart	0	1	0	0	0	0	0	0	0	1
Maternal Complications	0	1	0	0	0	1	0	0	0	2
Other Complications of Placenta, Cord & Membrane	7	1	1	1	2	2	1	3	1	19
Slow Foetal Growth	9	2	0	0	0	2	0	0	0	13
Hypoxia/Anoxia	1	4	1	1	0	0	0	0	0	7
Perinatal Infections	0	0	0	1	0	0	0	0	0	1
Metabolic and Endocrine Disorders	2	0	0	0	0	0	0	0	0	2
Symptoms, Signs, and Ill-Defined Conditions	0	0	1	0	0	0	1	0	0	2
Total	20	9	3	4	3	7	2	5	1	54

Note: See Appendix D for a list of the International Classification of Diseases codes corresponding to each cause of death.

Table 5.10
Age at Death
Early Neonatal Deaths, 2004

Multiple Births

Time		Frequency	Per Cent
Completed Hours	<1	3	10.7
	3	1	3.6
	6	2	7.1
	9	1	3.6
	10	1	3.6
	11	2	7.1
	13	1	3.6
	18	1	3.6
	19	1	3.6
	Total under 1 Day		13
Days	1	9	32.1
	2	2	7.1
	3	1	3.6
	4	3	10.7
Total under 1 Week		15	53.6
Total		28	100.0

Table 5.11
Percentage Distribution of Live Births by Infant's Length of Stay in Hospital, 2004

Multiple Births

Length of Stay (Days)	Live Births	Per Cent (%) Live Births
0-2	110	5.9
3-5	916	49.4
6-10	375	20.2
11-28	306	16.5
29 or more	140	7.6
Not Stated	6	0.3
Total	1,853	100.0

Note:

- 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, 2004

Multiple Births

Post-mortem	Type of Death		
	Early Neonatal Deaths	Stillbirths	Total
Frequency			
Row Per Cent			
Col. Per Cent			
Post-Mortem	8	7	15
	53.3	46.7	100.0
	28.6	26.9	27.8
No Post-Mortem	17	16	33
	51.5	48.5	100.0
	60.7	61.5	61.1
Not Stated	3	3	6
	50.0	50.0	100.0
	10.7	11.5	11.1
Total	28	26	54
	51.9	48.1	100.0
	100.0	100.0	100.0

Note: See Appendix F 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 RATES

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 of the population per year.

Live Birth (LB): 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 World Health Organisation (WHO) guidelines, live births weighing less than 500 grams are not included in the national statistics.

Stillbirth (SB) 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:

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

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

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

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.⁵

Twinning Rate: This is given by

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

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

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

⁵ Congenital anomalies are those diseases/conditions categorised in *ICD-9*, Chapter XIV, codes 740.0-759.9.

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 2004 there were 48 births under hospital administered home birth schemes. For the purposes of this report these births are treated as hospital births due to the 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:

- i. Married.
- ii. Never Married.
- iii. Widowed.
- iv. Separated: covers the following categories:
 - Deserted.
 - Legally separated.
 - Church decree of nullity.
 - Otherwise separated.
- v. 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.

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.

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:

- i. Spontaneous cephalic delivery, without any of the following:
- ii. Breech delivery, spontaneous, with or without forceps to after-coming head, breech extraction.
- iii. Forceps delivery.
- iv. Vacuum extraction.⁶
- v. Caesarean section.
- vi. Other specified and Combined (e.g combination of spontaneous delivery followed by a vacuum extraction or caesarean section).

Hospital Admission Booked or Unbooked: 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: 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;

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

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.

⁶ Also known as Ventouse Deliveries (Source: Jane Henderson, Leslie L. Davidson, Jean Chapple, Jo Garcia, Stavros Petrou, "Pregnancy and Childbirth", Health Care Needs Assessment, <http://hcna.radcliffe-oxford.com/pregframe.htm>, date consulted 21st November 2006.)

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, the guidelines recommended by the World Health Organisation have been followed. A summary of these guidelines, together with a list of the International Classification of Disease codes grouped into each category, is provided in Appendix D.

Age at Death: The age of early neonatal deaths is given in completed hours if the infant survived less than 1 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-9 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 3.17 the values for 'under 15' are not included as there are 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 outlines the new form introduced in May 2003 and effective from January 1, 2004.

Notification of Birth - To: National Perinatal Reporting System, The Economic & Social Research Institute, 4 Burlington Rd. Dublin 4

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

HOSPITAL NO. 3 _____ CASE NO. 6 _____ ADDRESS OF _____

HOSPITAL _____

INFANT'S DETAILS

DATE OF BIRTH (DD/MM/YYYY) 14 _____

TIME OF BIRTH _____

IF MULTIPLE BIRTH ORDER OF BIRTH No. 22 of 23

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

BIRTHWEIGHT 25 _____ GRAMMES

PERIOD OF GESTATION 29 _____ WEEKS

FATHER'S DETAILS

COUNTRY _____ 31 _____

COUNTRY _____ 34 _____

NATIONALITY _____ 38 _____

OCCUPATION _____ 42 _____

DATE OF BIRTH (DDMMYYYY) 44 _____

MOTHER'S DETAILS

COUNTRY _____ 52 _____

COUNTRY _____ 55 _____

NATIONALITY _____ 59 _____

OCCUPATION _____ 63 _____

DATE OF BIRTH (DDMMYYYY) 65 _____

MARITAL STATUS (Married = 1, Never Married = 2, Widowed = 3, Married but Separated = 4, Divorced, = 5) 73 _____

DATE OF PRESENT MARRIAGE (DDMMYYYY) 74 _____

DATE OF LAST BIRTH (live or still) (DDMMYYYY) 82 _____

NO. OF PREVIOUS LIVE BIRTHS 90 _____

CHILDREN STILL LIVING 92 _____

STILLBIRTHS 94 _____

SPONTANEOUS ABORTIONS 96 _____

PERINATAL DEATH

TYPE OF DEATH (Early Neonatal = 1, Stillbirth = 2) 98 _____

WAS AUTOPSY PERFORMED (Yes = 1, No = 2) 99 _____

AGE AT DEATH 100 _____ DAYS 101 _____ HOURS

PLACE OF DEATH 103 _____

IF STILLBIRTH, DID DEATH OCCUR BEFORE LABOUR (1) DURING LABOUR (2) NOT KNOWN (3) 106 _____

CAUSE OF DEATH

MAIN DISEASE OR CONDITION IN FOETUS OR INFANT _____ 107 _____

OTHER DISEASES OR CONDITIONS IN FOETUS OR INFANT _____ 112 _____

Signature _____ Date _____

MOTHER'S HEALTH

ANTENATAL CARE THIS PREGNANCY (Hospital / Obstetrician = 1, G.P. Only = 2, Combined = 3, None = 4, Midwife Only=5) 117 _____

DATE OF FIRST VISIT TO DOCTOR DURING PREGNANCY (DDMMYYYY) 118 _____

DATE OF FIRST VISIT TO HOSPITAL DURING PREGNANCY (DDMMYYYY) 126 _____

WAS MOTHER IMMUNE TO RUBELLA (Yes = 1, No = 2, Not Known = 3) 134 _____

METHOD OF DELIVERY (Spontaneous = 1, Breech ± Forceps = 2, Forceps = 3, Vac. Extraction = 4, Caesarean Sec. = 5, Other = 6) 135 _____

MAIN MATERNAL DISEASE OR CONDITION AFFECTING FOETUS OR INFANT _____ 136 _____

OTHER MATERNAL DISEASES OR CONDITIONS AFFECTING FOETUS OR INFANT _____ 141 _____

INFANT'S HEALTH

TYPE OF FEEDING (Artificial = 1, Breast = 2, Combined = 3) 146 _____

WAS BCG ADMINISTERED (Yes = 1, No = 2) 147 _____

MAIN DISEASE OR CONGENITAL MALFORMATION AFFECTING INFANT _____ 148 _____

OTHER DISEASES OR CONGENITAL MALFORMATIONS AFFECTING INFANT _____ 153 _____

HOSPITAL

WAS ADMISSION BOOKED (Yes = 1, No = 2) 158 _____

DATE OF MOTHER'S ADMISSION (DDMMYYYY) 159 _____

DATE OF MOTHER'S DISCHARGE (DDMMYYYY) 167 _____

DATE OF INFANT'S DISCHARGE (DDMMYYYY) 175 _____

WAS INFANT TRANSFERRED TO OTHER HOSPITAL FOR MEDICAL REASONS (Yes = 1, No = 2) 183 _____

IF 'YES', NAME OF HOSPITAL _____ 184 _____

GENERAL PRACTITIONER ATTENDED BY MOTHER

BNF01/2003

Appendix C

Classification of Occupation

Occupations have been coded and classified into a set of socio-economic groups according to a system devised by the Central Statistics Office (CSO). The final CSO Category of 'Unknown' has been differentiated into 5 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 single, 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 given below:

- Farmers and Farm Managers
- Other Agricultural Occupations and Fishermen
- Higher Professional
- Lower Professional
- Employers and 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 World Health Organisation in the ninth revision of the International Classification of Diseases (ICD).⁷ Briefly, the principal coding criteria are as follows:

1. 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.
2. If heart or cardiac failure, asphyxia or anoxia (any condition in 768) or prematurity (any condition in 765) is entered as the main cause and other conditions of the infant or foetus are entered as secondary causes, then the first-mentioned of these other conditions is entered as the main cause of death.
3. If two or more conditions are entered as the main cause of death then the first mentioned condition is coded as if it had been mentioned alone and the second-mentioned cause is coded as the secondary condition.
4. If there is no entry for a main cause, then any secondary condition of the infant is coded as the main cause.
5. If a maternal condition is entered in the section reserved for the infant's conditions or if an infant's condition is entered in the section provided for maternal conditions then the conditions are coded as if they had been entered in the respective correct section.
6. If the foetus died before the onset of labour, then obstetrical complications that could not have affected the outcome are ignored as causes of death.

For the purpose of the cause of death tables included in this report, one further criterion has been applied. This is to the effect that where heart failure, asphyxia or anoxia (any condition in 768) or prematurity (any condition in 765) is coded as the main cause of death or where no infant's condition is given then, where a specific maternal condition is given, the main cause of death is classified under the maternal condition.

⁷ World Health Organisation. 1978. *Manual of the International Classification of Diseases, Injuries and Causes of Death*, 9th Revision. Vol. 1. Geneva: WHO.

In Table 5.2, which contains a detailed classification of cause of death, the corresponding ICD numbers are listed in the left hand column of that table. For the less detailed tables (i.e., Tables 5.3, 5.8, and 5.9), the ICD codes relating to each cause of death category are given below:

ICD Codes	Cause of Death
740	Anencephalus and similar anomalies
741	Spina Bifida
742	Other congenital anomalies of the nervous system
745-747	Congenital anomalies of the heart
758	Chromosomal anomalies (including Down's Syndrome)
743-744, 748-757, 759	Other congenital anomalies
760-761	Maternal conditions and complications
762	Complications of the placenta, cord and membranes
763	Other complications of labour and delivery
764-765	Slow foetal growth, foetal malnutrition, and immaturity
766	Disorders relating to long gestation and high birthweight
767	Birth trauma
768-770	Intrauterine hypoxia and birth asphyxia and other respiratory conditions of foetus or newborn
771	Infections specific to the perinatal period
772	Foetal and neonatal haemorrhage
773	Haemolytic disease of foetus or newborn, due to iso-immunisation
775	Endocrine and metabolic disturbances specific to the foetus and newborn
778	Conditions involving the integument and temperature regulation of foetus and newborn
779.9	Maceration
780-799	Symptoms, signs and ill-defined conditions

All other codes have been classified to the category 'all other causes'. Where no cause has been given, perinatal deaths are categorised as 'cause not stated'.

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. Where county of residence is recorded as Tipperary and North or South Riding is not specified, then the assignment of the code is based on the Health Board in which the birth occurred. For births occurring in the South-Eastern or Southern Health Boards where Tipperary is recorded as county of residence then a code of 62, Tipperary South Riding is applied. For births occurring in other Health Boards 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
11	Dublin County
12	Kildare
13	Wicklow
20	Laois
21	Offaly
22	Longford
23	Westmeath
30	Clare
31	Limerick
32	Tipperary North Riding
40	Meath
41	Cavan
42	Monaghan
43	Louth
50	Donegal
51	Sligo
52	Leitrim
60	Carlow
61	Kilkenny
62	Tipperary South Riding
63	Waterford
64	Wexford
70	Cork
71	Kerry
80	Galway
81	Mayo
82	Roscommon
90	Other – all other places outside Republic of Ireland
99	Not Stated

Appendix F

Cross-Tabulations of Selected Variables: 2004

This appendix contains a range of cross-tabulations relating to singleton live and still births. 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 F1
Age of Mother by Maternal Parity, Live Births and Stillbirths, 2004

Singleton Births

Age of Mother	Maternal Parity									
	0	1	2	3	4	5	6	More than 6	Not Stated	Total
Frequency										
Row Per Cent										
Col. Per Cent										
Under 15 Years	6	0	0	0	0	0	0	0	0	6
	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19 Years	2,221	223	17	4	0	0	0	1	0	2,466
	90.1	9.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	100.0
	9.2	1.1	0.2	0.1	0.0	0.0	0.0	0.5	0.0	4.1
20-24 Years	4,954	2,425	614	151	35	7	1	0	5	8,192
	60.5	29.6	7.5	1.8	0.4	0.1	0.0	0.0	0.1	100.0
	20.5	12.4	5.9	3.7	2.7	1.3	0.4	0.0	16.1	13.5
25-29 Years	6,527	4,875	1,900	621	177	59	12	13	6	14,190
	46.0	34.4	13.4	4.4	1.3	0.4	0.1	0.1	0.0	100.0
	27.0	25.0	18.3	15.2	13.4	11.2	5.3	6.1	19.4	23.5
30-34 Years	7,501	7,468	3,850	1,323	448	157	64	58	7	20,876
	35.9	35.8	18.4	6.3	2.2	0.8	0.3	0.3	0.0	100.0
	31.0	38.3	37.1	32.5	34.0	29.7	28.4	27.1	22.6	34.5
35-39 Years	2,510	3,881	3,449	1,590	455	213	94	77	6	12,275
	20.5	31.6	28.1	13.0	3.7	1.7	0.8	0.6	0.1	100.0
	10.4	19.9	33.3	39.0	34.5	40.3	41.8	36.0	19.4	20.3
40-44 Years	431	598	517	366	194	89	51	57	1	2,304
	18.7	26.0	22.4	15.9	8.4	3.9	2.2	2.5	0.0	100.0
	1.8	3.1	5.0	9.0	14.7	16.9	22.7	26.6	3.2	3.8
45 Years and over	8	15	7	13	5	3	2	6	0	59
	13.6	25.4	11.9	22.0	8.5	5.1	3.4	10.2	0.0	100.0
	0.0	0.1	0.1	0.3	0.4	0.6	0.9	2.8	0.0	0.1
Not Stated	55	37	17	8	5	0	1	2	6	131
	42.0	28.2	13.0	6.1	3.8	0.0	0.8	1.5	4.6	100.0
	0.2	0.2	0.2	0.2	0.4	0.0	0.4	0.9	19.4	0.2
Total	24,213	19,522	10,371	4,076	1,319	528	225	214	31	60,499
	40.0	32.3	17.1	6.7	2.2	0.9	0.4	0.4	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F2
Method of Delivery by Maternal Parity, Live Births and Stillbirths, 2004

Singleton Births

Method of Delivery	Maternal Parity									
	0	1	2	3	4	5	6	More than 6	Not Stated	Total
Spontaneous	11,086	13,254	7,497	3,046	1,025	403	164	160	17	36,652
	30.3	36.2	20.5	8.3	2.8	1.1	0.5	0.4	0.1	100.0
	45.8	67.9	72.3	74.7	77.7	76.3	72.9	74.8	54.8	60.6
Breech/Forceps	116	60	28	7	6	6	0	3	0	226
	51.3	26.6	12.4	3.1	2.7	2.7	0.0	1.3	0.0	100.0
	0.5	0.3	0.3	0.2	0.5	1.1	0.0	1.4	0.0	0.4
Forceps	1,223	213	50	6	3	1	0	2	0	1,498
	81.6	14.2	3.3	0.4	0.2	0.1	0.0	0.1	0.0	100.0
	5.1	1.1	0.5	0.2	0.2	0.2	0.0	0.9	0.0	2.5
Vacuum Extraction	5,156	1,463	446	149	32	21	10	9	5	7,291
	70.7	20.1	6.1	2.0	0.4	0.3	0.1	0.1	0.1	100.0
	21.3	7.5	4.3	3.7	2.4	4.0	4.4	4.2	16.1	12.1
Caesarean	6,579	4,455	2,294	844	248	95	51	38	9	14,613
	45.0	30.5	15.7	5.8	1.7	0.7	0.4	0.3	0.1	100.0
	27.2	22.8	22.1	20.7	18.8	18.0	22.7	17.8	29.0	24.2
Other Specified & Combined	44	73	54	20	4	2	0	2	0	199
	22.1	36.7	27.1	10.1	2.0	1.0	0.0	1.0	0.0	100.0
	0.2	0.4	0.5	0.5	0.3	0.4	0.0	0.9	0.0	0.3
Not Stated	9	4	2	4	1	0	0	0	0	20
	45.0	20.0	10.0	20.0	5.0	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total	24,213	19,522	10,371	4,076	1,319	528	225	214	31	60,499
	40.0	32.3	17.1	6.7	2.2	0.9	0.4	0.4	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F3

Mother's Marital Status by Age of Mother, Live Births and Stillbirths, 2004

Singleton Births

Mother's Marital Status	Age of Mother									
	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	Total
Married	0	213	1,815	8,822	17,374	10,588	1,911	44	86	40,853
	0.0	0.5	4.4	21.6	42.5	25.9	4.7	0.1	0.2	100.0
	0.0	8.6	22.2	62.2	83.2	86.3	82.9	74.6	65.7	67.5
Single	6	2,248	6,329	5,223	3,174	1,300	259	11	42	18,592
	0.0	12.1	34.0	28.1	17.1	7.0	1.4	0.1	0.2	100.0
	100.0	91.2	77.3	36.8	15.2	10.6	11.2	18.6	32.1	30.7
Widowed	0	2	2	7	31	21	9	1	0	73
	0.0	2.7	2.7	9.6	42.5	28.8	12.3	1.4	0.0	100.0
	0.0	0.1	0.0	0.1	0.2	0.2	0.4	1.7	0.0	0.1
Separated	0	3	42	116	214	247	91	3	1	717
	0.0	0.4	5.9	16.2	29.9	34.5	12.7	0.4	0.1	100.0
	0.0	0.1	0.5	0.8	1.0	2.0	4.0	5.1	0.8	1.2
Divorced	0	0	2	17	81	119	33	0	0	252
	0.0	0.0	0.8	6.8	32.1	47.2	13.1	0.0	0.0	100.0
	0.0	0.0	0.0	0.1	0.4	1.0	1.4	0.0	0.0	0.4
Not Stated	0	0	2	5	2	0	1	0	2	12
	0.0	0.0	16.7	41.7	16.7	0.0	8.3	0.0	16.7	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
Total	6	2,466	8,192	14,190	20,876	12,275	2,304	59	131	60,499
	0.0	4.1	13.5	23.5	34.5	20.3	3.8	0.1	0.2	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F4
Mother's Marital Status by Age of Father, Live Births and Stillbirths, 2004

Singleton Births

Mother's Marital Status	Age of Father								
	15-19 Years	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	45 Years and over	Not Stated	Total
Married	57	582	4,329	13,422	11,038	3,923	1,026	6,476	40,853
	0.1	1.4	10.6	32.9	27.0	9.6	2.5	15.9	100.0
	26.4	38.9	79.2	93.8	95.7	94.2	89.4	29.2	67.5
Single	158	893	1,104	810	411	198	87	14,931	18,592
	0.9	4.8	5.9	4.4	2.2	1.1	0.5	80.3	100.0
	73.2	59.6	20.2	5.7	3.6	4.8	7.6	67.4	30.7
Widowed	0	0	1	7	8	3	3	51	73
	0.0	0.0	1.4	9.6	11.0	4.1	4.1	69.9	100.0
	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.2	0.1
Separated	1	17	24	46	44	30	18	537	717
	0.1	2.4	3.4	6.4	6.1	4.2	2.5	74.9	100.0
	0.5	1.1	0.4	0.3	0.4	0.7	1.6	2.4	1.2
Divorced	0	6	8	24	27	12	14	161	252
	0.0	2.4	3.2	9.5	10.7	4.8	5.6	63.9	100.0
	0.0	0.4	0.2	0.2	0.2	0.3	1.2	0.7	0.4
Not Stated	0	0	0	1	1	0	0	10	12
	0.0	0.0	0.0	8.3	8.3	0.0	0.0	83.3	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Total	216	1,498	5,466	14,310	11,529	4,166	1,148	22,166	60,499
	0.4	2.5	9.0	23.7	19.1	6.9	1.9	36.6	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F5
Gestational Age at Delivery by Maternal Parity, Live Births and Stillbirths, 2004

Singleton Births

Gestational Age at Delivery (weeks)	Maternal Parity									
	0	1	2	3	4	5	6	More than 6	Not Stated	Total
Less than 22	5	0	1	0	0	0	0	0	0	6
	83.3	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-27	113	40	25	19	7	4	1	0	2	211
	53.6	19.0	11.9	9.0	3.3	1.9	0.5	0.0	1.0	100.0
	0.5	0.2	0.2	0.5	0.5	0.8	0.4	0.0	6.5	0.3
28-31	172	83	39	28	7	4	5	3	2	343
	50.2	24.2	11.4	8.2	2.0	1.2	1.5	0.9	0.6	100.0
	0.7	0.4	0.4	0.7	0.5	0.8	2.2	1.4	6.5	0.6
32-36	1,037	634	328	160	55	35	16	15	1	2,281
	45.5	27.8	14.4	7.0	2.4	1.5	0.7	0.7	0.0	100.0
	4.3	3.3	3.2	3.9	4.2	6.6	7.1	7.0	3.2	3.8
37-41	21,443	18,003	9,591	3,730	1,191	460	192	184	26	54,820
	39.1	32.8	17.5	6.8	2.2	0.8	0.4	0.3	0.1	100.0
	88.6	92.2	92.5	91.5	90.3	87.1	85.3	86.0	83.9	90.6
42 and over	1,431	752	383	139	59	25	11	12	0	2,812
	50.9	26.7	13.6	4.9	2.1	0.9	0.4	0.4	0.0	100.0
	5.9	3.9	3.7	3.4	4.5	4.7	4.9	5.6	0.0	4.6
Not Stated	12	10	4	0	0	0	0	0	0	26
	46.2	38.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	24,213	19,522	10,371	4,076	1,319	528	225	214	31	60,499
	40.0	32.3	17.1	6.7	2.2	0.9	0.4	0.4	0.1	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F6
Age of Mother by Gestational Age at Delivery, Live Births and Stillbirths, 2004

Singleton Births

Age of Mother Frequency Row Per Cent Col. Per Cent	Gestational Age at Delivery (weeks)							Total
	Less than 22	22-27	28-31	32-36	37-41	42 and over	Not Stated	
Under 15 Years	0 0.0 0.0	1 16.7 0.5	0 0.0 0.0	0 0.0 0.0	5 83.3 0.0	0 0.0 0.0	0 0.0 0.0	6 100.0 0.0
15-19 Years	1 0.0 16.7	16 0.7 7.6	19 0.8 5.5	144 5.8 6.3	2,156 87.4 3.9	128 5.2 4.6	2 0.1 7.7	2,466 100.0 4.1
20-24 Years	1 0.0 16.7	38 0.5 18.0	52 0.6 15.2	343 4.2 15.0	7,298 89.1 13.3	451 5.5 16.0	9 0.1 34.6	8,192 100.0 13.5
25-29 Years	2 0.0 33.3	44 0.3 20.9	76 0.5 22.2	504 3.6 22.1	12,812 90.3 23.4	745 5.3 26.5	7 0.1 26.9	14,190 100.0 23.5
30-34 Years	2 0.0 33.3	59 0.3 28.0	106 0.5 30.9	712 3.4 31.2	19,057 91.3 34.8	937 4.5 33.3	3 0.0 11.5	20,876 100.0 34.5
35-39 Years	0 0.0 0.0	36 0.3 17.1	72 0.6 21.0	445 3.6 19.5	11,244 91.6 20.5	473 3.9 16.8	5 0.0 19.2	12,275 100.0 20.3
40-44 Years	0 0.0 0.0	11 0.5 5.2	15 0.7 4.4	119 5.2 5.2	2,084 90.5 3.8	75 3.3 2.7	0 0.0 0.0	2,304 100.0 3.8
45 Years and over	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	2 3.4 0.1	55 93.2 0.1	2 3.4 0.1	0 0.0 0.0	59 100.0 0.1
Not Stated	0 0.0 0.0	6 4.6 2.8	3 2.3 0.9	12 9.2 0.5	109 83.2 0.2	1 0.8 0.0	0 0.0 0.0	131 100.0 0.2
Total	6 0.0 100.0	211 0.3 100.0	343 0.6 100.0	2,281 3.8 100.0	54,820 90.6 100.0	2,812 4.6 100.0	26 0.0 100.0	60,499 100.0 100.0

Table F7
Method of Delivery by Age of Mother, Live Births and Stillbirths, 2004

Singleton Births

Method of Delivery	Age of Mother									
	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	Total
Spontaneous	3	1,642	5,520	8,769	12,190	7,160	1,247	34	87	36,652
	0.0	4.5	15.1	23.9	33.3	19.5	3.4	0.1	0.2	100.0
	50.0	66.6	67.4	61.8	58.4	58.3	54.1	57.6	66.4	60.6
Breech/Forceps	0	7	35	55	80	39	9	0	1	226
	0.0	3.1	15.5	24.3	35.4	17.3	4.0	0.0	0.4	100.0
	0.0	0.3	0.4	0.4	0.4	0.3	0.4	0.0	0.8	0.4
Forceps	0	68	190	366	573	261	36	0	4	1,498
	0.0	4.5	12.7	24.4	38.3	17.4	2.4	0.0	0.3	100.0
	0.0	2.8	2.3	2.6	2.7	2.1	1.6	0.0	3.1	2.5
Vacuum Extraction	1	370	1,038	1,835	2,623	1,202	207	3	12	7,291
	0.0	5.1	14.2	25.2	36.0	16.5	2.8	0.0	0.2	100.0
	16.7	15.0	12.7	12.9	12.6	9.8	9.0	5.1	9.2	12.1
Caesarean	2	378	1,393	3,121	5,334	3,555	782	22	26	14,613
	0.0	2.6	9.5	21.4	36.5	24.3	5.4	0.2	0.2	100.0
	33.3	15.3	17.0	22.0	25.6	29.0	33.9	37.3	19.9	24.2
Other Specified & Combined	0	1	14	37	69	55	23	0	0	199
	0.0	0.5	7.0	18.6	34.7	27.6	11.6	0.0	0.0	100.0
	0.0	0.0	0.2	0.3	0.3	0.5	1.0	0.0	0.0	0.3
Not Stated	0	0	2	7	7	3	0	0	1	20
	0.0	0.0	10.0	35.0	35.0	15.0	0.0	0.0	5.0	100.0
	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.8	0.0
Total	6	2,466	8,192	14,190	20,876	12,275	2,304	59	131	60,499
	0.0	4.1	13.5	23.5	34.5	20.3	3.8	0.1	0.2	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F8
Birthweight by Gestational Age at Delivery, Live Births and Stillbirths, 2004

Singleton Births

Birthweight (grams)	Gestational Age at Delivery (weeks)							Total
	Less than 22	22-27	28-31	32-36	37-41	42 and over	Not Stated	
500-749	5	87	28	4	0	0	0	124
	4.0	70.2	22.6	3.2	0.0	0.0	0.0	100.0
	83.3	41.2	8.2	0.2	0.0	0.0	0.0	0.2
750-999	0	74	34	10	0	0	0	118
	0.0	62.7	28.8	8.5	0.0	0.0	0.0	100.0
	0.0	35.1	9.9	0.4	0.0	0.0	0.0	0.2
1000-1249	1	35	74	19	1	0	0	130
	0.8	26.9	56.9	14.6	0.8	0.0	0.0	100.0
	16.7	16.6	21.6	0.8	0.0	0.0	0.0	0.2
1250-1499	0	6	71	61	7	0	0	145
	0.0	4.1	49.0	42.1	4.8	0.0	0.0	100.0
	0.0	2.8	20.7	2.7	0.0	0.0	0.0	0.2
1500-1999	0	6	109	285	65	0	1	466
	0.0	1.3	23.4	61.2	14.0	0.0	0.2	100.0
	0.0	2.8	31.8	12.5	0.1	0.0	3.9	0.8
2000-2499	0	0	16	674	764	8	1	1,463
	0.0	0.0	1.1	46.1	52.2	0.6	0.1	100.0
	0.0	0.0	4.7	29.6	1.4	0.3	3.9	2.4
2500-2999	0	0	4	745	5,779	98	4	6,630
	0.0	0.0	0.1	11.2	87.2	1.5	0.1	100.0
	0.0	0.0	1.2	32.7	10.5	3.5	15.4	11.0
3000-3499	0	2	3	353	18,608	612	5	19,583
	0.0	0.0	0.0	1.8	95.0	3.1	0.0	100.0
	0.0	1.0	0.9	15.5	33.9	21.8	19.2	32.4
3500-3999	0	0	2	104	19,912	1,131	3	21,152
	0.0	0.0	0.0	0.5	94.1	5.4	0.0	100.0
	0.0	0.0	0.6	4.6	36.3	40.2	11.5	35.0
4000-4499	0	0	1	17	8,136	746	1	8,901
	0.0	0.0	0.0	0.2	91.4	8.4	0.0	100.0
	0.0	0.0	0.3	0.8	14.8	26.5	3.9	14.7
4500 and over	0	0	0	7	1,540	217	0	1,764
	0.0	0.0	0.0	0.4	87.3	12.3	0.0	100.0
	0.0	0.0	0.0	0.3	2.8	7.7	0.0	2.9
Not Stated	0	1	1	2	8	0	11	23
	0.0	4.4	4.4	8.7	34.8	0.0	47.8	100.0
	0.0	0.5	0.3	0.1	0.0	0.0	42.3	0.0
Total	6	211	343	2,281	54,820	2,812	26	60,499
	0.0	0.3	0.6	3.8	90.6	4.6	0.0	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table F9

Method of Delivery by Mother's Length of Stay in Hospital after Delivery, Live Births and Stillbirths, 2004

Singleton Births

Method of Delivery	Postnatal Length of Stay								
	0-1 Days	2 Days	3-5 Days	6-8 Days	9-11 Days	12-14 Days	2 weeks or more	Not Stated	Total
Spontaneous	7,370	13,777	14,743	432	42	11	22	54	36,451
	20.2	37.8	40.5	1.2	0.1	0.0	0.1	0.2	100.0
	90.4	83.9	45.6	14.8	17.4	16.4	33.9	65.1	60.5
Breech/Forceps	51	57	107	8	1	0	0	1	225
	22.7	25.3	47.6	3.6	0.4	0.0	0.0	0.4	100.0
	0.6	0.4	0.3	0.3	0.4	0.0	0.0	1.2	0.4
Forceps	97	299	1,006	81	12	2	1	0	1,498
	6.5	20.0	67.2	5.4	0.8	0.1	0.1	0.0	100.0
	1.2	1.8	3.1	2.8	5.0	3.0	1.5	0.0	2.5
Vacuum Extraction	572	2,059	4,454	174	15	5	7	5	7,291
	7.9	28.2	61.1	2.4	0.2	0.1	0.1	0.1	100.0
	7.0	12.5	13.8	6.0	6.2	7.5	10.8	6.0	12.1
Caesarean	51	209	11,918	2,167	165	48	35	20	14,613
	0.4	1.4	81.6	14.8	1.1	0.3	0.2	0.1	100.0
	0.6	1.3	36.8	74.4	68.5	71.6	53.9	24.1	24.2
Other Specified & Combined	9	17	115	51	6	1	0	0	199
	4.5	8.5	57.8	25.6	3.0	0.5	0.0	0.0	100.0
	0.1	0.1	0.4	1.8	2.5	1.5	0.0	0.0	0.3
Not Stated	3	5	8	1	0	0	0	3	20
	15.0	25.0	40.0	5.0	0.0	0.0	0.0	15.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0
Total	8,153	16,423	32,351	2,914	241	67	65	83	60,297
	13.5	27.2	53.7	4.8	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

Note:

- 'Not Stated' includes 40 births where place of birth was recorded as domiciliary but birth was registered by hospital. Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.
- Domiciliary births, of which there were 202, are excluded from this table. See Appendix H for detailed analysis.

Table F10

Maternal Parity by Mother's Length of Stay in Hospital after Delivery, Live Births and Stillbirths, 2004

Singleton Births

Maternal Parity	Postnatal Length of Stay								
	0-1 Days	2 Days	3-5 Days	6-8 Days	9-11 Days	12-14 Days	2 weeks or more	Not Stated	Total
0	1,370	4,711	16,280	1,582	135	33	34	24	24,169
	5.7	19.5	67.4	6.6	0.6	0.1	0.1	0.1	100.0
	16.8	28.7	50.3	54.3	56.0	49.3	52.3	28.9	40.1
1	3,314	6,306	9,038	696	49	16	14	29	19,462
	17.0	32.4	46.4	3.6	0.3	0.1	0.1	0.2	100.0
	40.7	38.4	27.9	23.9	20.3	23.9	21.5	34.9	32.3
2	2,022	3,305	4,521	393	31	11	10	21	10,314
	19.6	32.0	43.8	3.8	0.3	0.1	0.1	0.2	100.0
	24.8	20.1	14.0	13.5	12.9	16.4	15.4	25.3	17.1
3	879	1,332	1,650	167	15	2	1	5	4,051
	21.7	32.9	40.7	4.1	0.4	0.1	0.0	0.1	100.0
	10.8	8.1	5.1	5.7	6.2	3.0	1.5	6.0	6.7
4	327	429	501	42	2	3	3	3	1,310
	25.0	32.8	38.2	3.2	0.2	0.2	0.2	0.2	100.0
	4.0	2.6	1.6	1.4	0.8	4.5	4.6	3.6	2.2
5	137	187	176	17	4	0	2	0	523
	26.2	35.8	33.7	3.3	0.8	0.0	0.4	0.0	100.0
	1.7	1.1	0.5	0.6	1.7	0.0	3.1	0.0	0.9
6	52	77	81	8	4	1	1	0	224
	23.2	34.4	36.2	3.6	1.8	0.5	0.5	0.0	100.0
	0.6	0.5	0.3	0.3	1.7	1.5	1.5	0.0	0.4
More than 6	50	71	81	8	1	1	0	1	213
	23.5	33.3	38.0	3.8	0.5	0.5	0.0	0.5	100.0
	0.6	0.4	0.3	0.3	0.4	1.5	0.0	1.2	0.4
Not Stated	2	5	23	1	0	0	0	0	31
	6.5	16.1	74.2	3.2	0.0	0.0	0.0	0.0	100.0
	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
Total	8,153	16,423	32,351	2,914	241	67	65	83	60,297
	13.5	27.2	53.7	4.8	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 40 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.
- Domiciliary births, of which there were 202, are excluded from this table. See Appendix H for detailed analysis.

Table F11
Father's Occupation by Infant's Birthweight, Live Births and Stillbirths, 2004

Singleton Births

Father's Occupation	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 1.6	6 0.3 5.1	4 0.2 3.1	5 0.2 3.5	13 0.6 2.8	44 1.9 3.0	163 6.9 2.5	682 29.0 3.5	890 37.8 4.2	438 18.6 4.9	106 4.5 6.0	0 0.0 0.0	2,353 100.0 3.9
Other Agricultural Occupations & Fishermen	2 0.3 1.6	0 0.0 0.0	2 0.3 1.5	3 0.5 2.1	7 1.2 1.5	11 1.8 0.8	56 9.2 0.8	183 30.0 0.9	237 38.9 1.1	89 14.6 1.0	20 3.3 1.1	0 0.0 0.0	610 100.0 1.0
Higher-Professional	5 0.1 4.0	5 0.1 4.2	8 0.2 6.2	13 0.3 9.0	23 0.6 4.9	81 2.0 5.5	358 9.0 5.4	1,166 29.3 6.0	1,540 38.7 7.3	673 16.9 7.6	112 2.8 6.4	0 0.0 0.0	3,984 100.0 6.6
Lower-Professional	4 0.2 3.2	3 0.1 2.5	5 0.2 3.9	3 0.1 2.1	19 0.7 4.1	56 2.1 3.8	232 8.8 3.5	774 29.4 4.0	1,001 38.0 4.7	457 17.3 5.1	80 3.0 4.5	1 0.0 4.4	2,635 100.0 4.4
Managers	8 0.2 6.5	6 0.1 5.1	6 0.1 4.6	9 0.2 6.2	27 0.5 5.8	86 1.6 5.9	441 8.4 6.7	1,588 30.3 8.1	1,994 38.0 9.4	874 16.7 9.8	203 3.9 11.5	1 0.0 4.4	5,243 100.0 8.7
Salaried-Employees	2 0.1 1.6	3 0.2 2.5	1 0.1 0.8	2 0.1 1.4	8 0.5 1.7	35 2.3 2.4	114 7.5 1.7	495 32.7 2.5	586 38.7 2.8	222 14.7 2.5	47 3.1 2.7	0 0.0 0.0	1,515 100.0 2.5
Non-Manual Workers	6 0.1 4.8	3 0.1 2.5	13 0.3 10.0	12 0.3 8.3	36 0.8 7.7	84 1.8 5.7	504 10.5 7.6	1,486 31.0 7.6	1,745 36.4 8.3	725 15.1 8.2	176 3.7 10.0	2 0.0 8.7	4,792 100.0 7.9
Other Non-Manual Workers	11 0.2 8.9	10 0.2 8.5	8 0.2 6.2	8 0.2 5.5	33 0.7 7.1	104 2.2 7.1	513 10.8 7.7	1,550 32.6 7.9	1,647 34.7 7.8	737 15.5 8.3	129 2.7 7.3	1 0.0 4.4	4,751 100.0 7.9
Skilled Manual Workers	19 0.2 15.3	25 0.2 21.2	20 0.2 15.4	24 0.2 16.6	79 0.7 17.0	262 2.1 17.9	1,161 9.5 17.5	3,833 31.3 19.6	4,421 36.1 20.9	2,001 16.4 22.5	391 3.2 22.2	2 0.0 8.7	12,238 100.0 20.2
Semi-skilled Manual Workers	5 0.2 4.0	5 0.2 4.2	5 0.2 3.9	9 0.4 6.2	24 1.1 5.2	57 2.6 3.9	250 11.2 3.8	726 32.6 3.7	765 34.4 3.6	318 14.3 3.6	60 2.7 3.4	1 0.0 4.4	2,225 100.0 3.7
Unskilled Manual Workers	0 0.0 0.0	0 0.0 0.0	1 0.2 0.8	3 0.5 2.1	7 1.2 1.5	21 3.5 1.4	81 13.6 1.2	195 32.8 1.0	177 29.8 0.8	91 15.3 1.0	18 3.0 1.0	0 0.0 0.0	594 100.0 1.0
Unemployed	7 0.4 5.7	3 0.2 2.5	4 0.2 3.1	3 0.2 2.1	21 1.1 4.5	59 3.0 4.0	282 14.5 4.3	689 35.5 3.5	589 30.3 2.8	237 12.2 2.7	47 2.4 2.7	2 0.1 8.7	1,943 100.0 3.2
Not Classifiable	1 0.1 0.8	5 0.3 4.2	4 0.3 3.1	5 0.3 3.5	5 0.3 1.1	30 2.0 2.1	165 11.1 2.5	518 35.0 2.7	507 34.2 2.4	198 13.4 2.2	43 2.9 2.4	1 0.1 4.4	1,482 100.0 2.4
Not Applicable	46 0.3 37.1	42 0.3 35.6	45 0.3 34.6	43 0.3 29.7	158 1.0 33.9	506 3.3 34.6	2,198 14.4 33.2	5,402 35.3 27.6	4,784 31.3 22.6	1,738 11.4 19.5	318 2.1 18.0	11 0.1 47.8	15,291 100.0 25.3
Not Stated	6 0.7 4.8	2 0.2 1.7	4 0.5 3.1	3 0.4 2.1	6 0.7 1.3	27 3.2 1.9	112 13.3 1.7	296 35.1 1.5	269 31.9 1.3	103 12.2 1.2	14 1.7 0.8	1 0.1 4.4	843 100.0 1.4
Total	124 0.2 100.0	118 0.2 100.0	130 0.2 100.0	145 0.2 100.0	466 0.8 100.0	1,463 2.4 100.0	6,630 11.0 100.0	19,583 32.4 100.0	21,152 35.0 100.0	8,901 14.7 100.0	1,764 2.9 100.0	23 0.0 100.0	60,499 100.0 100.0

Note: In this table 'Not Classifiable' includes 145 Fathers whose occupation was recorded as 'Home Duties'. See Appendix C for a description of the classification system for occupations.

Table F12
Mother's Occupation by Infant's Birthweight, Live Births and Stillbirths, 2004

Singleton Births

Mother's Occupation	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	1	5	6	34	37	17	5	0	105
	0.0	0.0	0.0	0.0	1.0	4.8	5.7	32.4	35.2	16.2	4.8	0.0	100.0
	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.2	0.2	0.2	0.3	0.0	0.2
Other Agricultural Occupations & Fishermen	0	0	0	0	0	3	15	25	33	15	3	0	94
	0.0	0.0	0.0	0.0	0.0	3.2	16.0	26.6	35.1	16.0	3.2	0.0	100.0
	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.2	0.2	0.0	0.2
Higher-Professional	5	3	7	5	11	55	251	890	1,185	516	99	0	3,027
	0.2	0.1	0.2	0.2	0.4	1.8	8.3	29.4	39.2	17.1	3.3	0.0	100.0
	4.0	2.5	5.4	3.5	2.4	3.8	3.8	4.5	5.6	5.8	5.6	0.0	5.0
Lower-Professional	11	13	13	21	38	133	625	2,276	2,844	1,283	253	0	7,510
	0.2	0.2	0.2	0.3	0.5	1.8	8.3	30.3	37.9	17.1	3.4	0.0	100.0
	8.9	11.0	10.0	14.5	8.2	9.1	9.4	11.6	13.5	14.4	14.3	0.0	12.4
Managers	4	9	9	8	32	79	372	1,277	1,436	652	128	1	4,007
	0.1	0.2	0.2	0.2	0.8	2.0	9.3	31.9	35.8	16.3	3.2	0.0	100.0
	3.2	7.6	6.9	5.5	6.9	5.4	5.6	6.5	6.8	7.3	7.3	4.4	6.6
Salaried-Employees	1	2	2	2	7	18	98	336	399	160	32	1	1,058
	0.1	0.2	0.2	0.2	0.7	1.7	9.3	31.8	37.7	15.1	3.0	0.1	100.0
	0.8	1.7	1.5	1.4	1.5	1.2	1.5	1.7	1.9	1.8	1.8	4.4	1.7
Non-Manual Workers	23	28	25	28	110	313	1,402	4,403	5,072	2,164	382	6	13,956
	0.2	0.2	0.2	0.2	0.8	2.2	10.1	31.6	36.3	15.5	2.7	0.0	100.0
	18.6	23.7	19.2	19.3	23.6	21.4	21.2	22.5	24.0	24.3	21.7	26.1	23.1
Other Non-Manual Workers	16	15	15	23	55	167	775	2,243	2,193	863	161	2	6,528
	0.3	0.2	0.2	0.4	0.8	2.6	11.9	34.4	33.6	13.2	2.5	0.0	100.0
	12.9	12.7	11.5	15.9	11.8	11.4	11.7	11.5	10.4	9.7	9.1	8.7	10.8
Skilled Manual Workers	1	0	1	3	4	22	91	241	335	142	25	0	865
	0.1	0.0	0.1	0.4	0.5	2.5	10.5	27.9	38.7	16.4	2.9	0.0	100.0
	0.8	0.0	0.8	2.1	0.9	1.5	1.4	1.2	1.6	1.6	1.4	0.0	1.4
Semi-skilled Manual Workers	5	5	5	9	24	57	248	778	755	287	64	0	2,237
	0.2	0.2	0.2	0.4	1.1	2.6	11.1	34.8	33.8	12.8	2.9	0.0	100.0
	4.0	4.2	3.9	6.2	5.2	3.9	3.7	4.0	3.6	3.2	3.6	0.0	3.7
Unskilled Manual Workers	1	0	0	0	0	1	2	1	4	1	0	0	10
	10.0	0.0	0.0	0.0	0.0	10.0	20.0	10.0	40.0	10.0	0.0	0.0	100.0
	0.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unemployed	11	5	9	7	30	101	454	964	729	221	49	4	2,584
	0.4	0.2	0.4	0.3	1.2	3.9	17.6	37.3	28.2	8.6	1.9	0.2	100.0
	8.9	4.2	6.9	4.8	6.4	6.9	6.9	4.9	3.5	2.5	2.8	17.4	4.3
Not Classifiable	7	8	6	3	12	67	299	856	792	281	54	1	2,386
	0.3	0.3	0.3	0.1	0.5	2.8	12.5	35.9	33.2	11.8	2.3	0.0	100.0
	5.7	6.8	4.6	2.1	2.6	4.6	4.5	4.4	3.7	3.2	3.1	4.4	3.9
Home Duties	35	26	33	31	133	417	1,905	5,031	5,149	2,246	499	5	15,510
	0.2	0.2	0.2	0.2	0.9	2.7	12.3	32.4	33.2	14.5	3.2	0.0	100.0
	28.2	22.0	25.4	21.4	28.5	28.5	28.7	25.7	24.3	25.2	28.3	21.7	25.6
Not Stated	4	4	5	5	9	25	87	228	189	53	10	3	622
	0.6	0.6	0.8	0.8	1.5	4.0	14.0	36.7	30.4	8.5	1.6	0.5	100.0
	3.2	3.4	3.9	3.5	1.9	1.7	1.3	1.2	0.9	0.6	0.6	13.0	1.0
Total	124	118	130	145	466	1,463	6,630	19,583	21,152	8,901	1,764	23	60,499
	0.2	0.2	0.2	0.2	0.8	2.4	11.0	32.4	35.0	14.7	2.9	0.0	100.0
	100.0	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: 'Not Applicable' is not used in the classification of maternal occupation.
 See Appendix C for a description of the classification system for occupations.

Table F13

Father's Occupation by Interval in Years Since Last Birth, Live Births and Stillbirths, 2004

Singleton Births

Father's Occupation	Interval 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	No. of Previous Births Unknown	Not Stated	
Frequency Row Per Cent Col. Per Cent											
Farmers & Farm Managers	666 28.3 2.8	35 1.5 5.9	521 22.1 5.8	468 19.9 5.1	251 10.7 4.3	144 6.1 3.9	90 3.8 3.9	148 6.3 2.9	2 0.1 10.5	28 1.2 5.8	2,353 100.0 3.9
Other Agricultural Occupations & Fishermen	229 37.5 1.0	4 0.7 0.7	90 14.8 1.0	94 15.4 1.0	60 9.8 1.0	47 7.7 1.3	25 4.1 1.1	55 9.0 1.1	0 0.0 0.0	6 1.0 1.2	610 100.0 1.0
Higher-Professional	1,503 37.7 6.2	29 0.7 4.9	729 18.3 8.1	801 20.1 8.8	406 10.2 6.9	223 5.6 6.0	110 2.8 4.8	160 4.0 3.1	6 0.2 31.6	17 0.4 3.5	3,984 100.0 6.6
Lower-Professional	1,050 39.9 4.3	15 0.6 2.5	419 15.9 4.7	496 18.8 5.4	283 10.7 4.8	163 6.2 4.4	65 2.5 2.8	136 5.2 2.6	1 0.0 5.3	7 0.3 1.4	2,635 100.0 4.4
Managers	1,864 35.6 7.7	39 0.7 6.5	835 15.9 9.3	982 18.7 10.7	609 11.6 10.4	342 6.5 9.3	183 3.5 7.9	344 6.6 6.6	1 0.0 5.3	44 0.8 9.1	5,243 100.0 8.7
Salaried-Employees	564 37.2 2.3	10 0.7 1.7	231 15.3 2.6	302 19.9 3.3	153 10.1 2.6	93 6.1 2.5	55 3.6 2.4	92 6.1 1.8	0 0.0 0.0	15 1.0 3.1	1,515 100.0 2.5
Non-Manual Workers	1,801 37.6 7.4	33 0.7 5.5	731 15.3 8.2	825 17.2 9.0	525 11.0 9.0	299 6.2 8.1	198 4.1 8.6	339 7.1 6.5	0 0.0 0.0	41 0.9 8.5	4,792 100.0 7.9
Other Non-Manual Workers	1,684 35.5 7.0	47 1.0 7.9	646 13.6 7.2	708 14.9 7.7	560 11.8 9.6	334 7.0 9.0	250 5.3 10.8	480 10.1 9.2	3 0.1 15.8	39 0.8 8.0	4,751 100.0 7.9
Skilled Manual Workers	4,343 35.5 17.9	103 0.8 17.2	1,853 15.1 20.7	2,045 16.7 22.4	1,312 10.7 22.4	818 6.7 22.1	500 4.1 21.6	1,160 9.5 22.3	5 0.0 26.3	99 0.8 20.4	12,238 100.0 20.2
Semi-skilled Manual Workers	809 36.4 3.3	18 0.8 3.0	304 13.7 3.4	311 14.0 3.4	227 10.2 3.9	163 7.3 4.4	93 4.2 4.0	271 12.2 5.2	0 0.0 0.0	29 1.3 6.0	2,225 100.0 3.7
Unskilled Manual Workers	184 31.0 0.8	7 1.2 1.2	91 15.3 1.0	81 13.6 0.9	72 12.1 1.2	38 6.4 1.0	29 4.9 1.3	87 14.7 1.7	0 0.0 0.0	5 0.8 1.0	594 100.0 1.0
Unemployed	434 22.3 1.8	70 3.6 11.7	575 29.6 6.4	363 18.7 4.0	181 9.3 3.1	103 17.3 2.8	50 2.6 2.2	139 7.2 2.7	0 0.0 0.0	28 1.4 5.8	1,943 112.0 3.2
Not Classifiable	468 31.6 1.9	18 1.2 3.0	339 22.9 3.8	256 17.3 2.8	142 9.6 2.4	83 5.6 2.2	51 3.4 2.2	105 7.1 2.0	0 0.0 0.0	20 1.4 4.1	1,482 100.0 2.4
Not Applicable	8,339 54.5 34.4	157 1.0 26.3	1,426 9.3 15.9	1,246 8.2 13.6	1,006 6.6 17.2	797 5.2 21.6	594 3.9 25.7	1,629 10.7 31.3	1 0.0 5.3	96 0.6 19.8	15,291 100.0 25.3
Not Stated	275 32.6 1.1	13 1.5 2.2	184 21.8 2.1	164 19.5 1.8	74 8.8 1.3	45 5.3 1.2	21 2.5 0.9	56 6.6 1.1	0 0.0 0.0	11 1.3 2.3	843 100.0 1.4
Total	24,213 40.0 100.0	598 1.0 100.0	8,974 14.8 100.0	9,142 15.1 100.0	5,861 9.7 100.0	3,692 6.1 100.0	2,314 3.8 100.0	5,201 8.6 100.0	19 0.0 100.0	485 0.8 100.0	60,499 100.0 100.0

Note: In this table 'Not Classifiable' includes 145 fathers whose occupation was recorded as 'Home Duties'.

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

Table F14

Mother's Occupation by Interval in Years Since Last Birth, Live Births and Stillbirths, 2004

Singleton Births

Mother's Occupation	Interval 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	No. of Previous Births Unknown	Not Stated	
Frequency Row Per Cent Col. Per Cent											
Farmers & Farm Managers	46 43.8 0.2	1 1.0 0.2	18 17.1 0.2	17 16.2 0.2	8 7.6 0.1	4 3.8 0.1	2 1.9 0.1	7 6.7 0.1	0 0.0 0.0	2 1.9 0.4	105 100.0 0.2
Other Agricultural Occupations & Fishermen	53 56.4 0.2	0 0.0 0.0	6 6.4 0.1	13 13.8 0.1	5 5.3 0.1	4 4.3 0.1	2 2.1 0.1	10 10.6 0.2	0 0.0 0.0	1 1.1 0.2	94 100.0 0.2
Higher-Professional	1,358 44.9 5.6	21 0.7 3.5	497 16.4 5.5	587 19.4 6.4	252 8.3 4.3	145 4.8 3.9	52 1.7 2.3	104 3.4 2.0	2 0.1 10.5	9 0.3 1.9	3,027 100.0 5.0
Lower-Professional	3,208 42.7 13.3	49 0.7 8.2	1,218 16.2 13.6	1,300 17.3 14.2	709 9.4 12.1	393 5.2 10.6	199 2.7 8.6	393 5.2 7.6	5 0.1 26.3	36 0.5 7.4	7,510 100.0 12.4
Managers	2,060 51.4 8.5	20 0.5 3.3	534 13.3 6.0	546 13.6 6.0	314 7.8 5.4	170 4.2 4.6	94 2.4 4.1	249 6.2 4.8	0 0.0 0.0	20 0.5 4.1	4,007 100.0 6.6
Salaried-Employees	567 53.6 2.3	5 0.5 0.8	124 11.7 1.4	123 11.6 1.4	84 7.9 1.4	50 4.7 1.4	33 3.1 1.4	67 6.3 1.3	1 0.1 5.3	4 0.4 0.8	1,058 100.0 1.7
Non-Manual Workers	6,665 47.8 27.5	103 0.7 17.2	1,476 10.6 16.5	1,831 13.1 20.0	1,278 9.2 21.8	805 5.8 21.8	500 3.6 21.6	1,217 8.7 23.4	6 0.0 31.6	75 0.5 15.5	13,956 100.0 23.1
Other Non-Manual Workers	3,058 46.8 12.6	52 0.8 8.7	657 10.1 7.3	718 11.0 7.9	518 7.9 8.9	366 5.6 9.9	305 4.7 13.2	808 12.4 15.5	0 0.0 0.0	46 0.7 9.5	6,528 100.0 10.8
Skilled Manual Workers	448 51.8 1.9	1 0.1 0.2	103 11.9 1.2	128 14.8 1.4	62 7.2 1.1	39 4.5 1.1	28 3.2 1.2	50 5.8 1.0	0 0.0 0.0	6 0.7 1.2	865 100.0 1.4
Semi-skilled Manual Workers	1,051 47.0 4.3	16 0.7 2.7	239 10.7 2.7	237 10.6 2.6	183 8.2 3.1	145 6.5 3.9	100 4.5 4.3	249 11.1 4.8	0 0.0 0.0	17 0.8 3.5	2,237 100.0 3.7
Unskilled Manual Workers	4 40.0 0.0	0 0.0 0.0	0 0.0 0.0	1 10.0 0.0	2 20.0 0.0	0 0.0 0.0	2 20.0 0.1	1 10.0 0.0	0 0.0 0.0	0 0.0 0.0	10 100.0 0.0
Unemployed	1,118 43.3 4.6	51 2.0 8.5	432 16.7 4.8	310 12.0 3.4	203 7.9 3.5	132 5.1 3.6	95 3.7 4.1	213 8.2 4.1	0 0.0 0.0	30 1.2 6.2	2,584 100.0 4.3
Not Classifiable	1,662 69.7 6.9	13 0.5 2.2	203 8.5 2.3	167 7.0 1.8	111 4.7 1.9	75 3.1 2.0	36 1.5 1.6	108 4.5 2.1	1 0.0 5.3	10 0.4 2.1	2,386 100.0 3.9
Home Duties	2,609 16.8 10.8	259 1.7 43.3	3,366 21.7 37.5	3,100 20.0 33.9	2,089 13.5 35.6	1,345 8.7 36.4	846 5.5 36.6	1,686 10.9 32.4	1 0.0 5.3	209 1.4 43.1	15,510 100.0 25.6
Not Stated	306 49.2 1.3	7 1.1 1.2	101 16.2 1.1	64 10.3 0.7	43 6.9 0.7	19 3.1 0.5	20 3.2 0.9	39 6.3 0.8	3 0.5 15.8	20 3.2 4.1	622 100.0 1.0
Total	24,213 40.0 100.0	598 1.0 100.0	8,974 14.8 100.0	9,142 15.1 100.0	5,861 9.7 100.0	3,692 6.1 100.0	2,314 3.8 100.0	5,201 8.6 100.0	19 0.0 100.0	485 0.8 100.0	60,499 100.0 100.0

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

Table F15
Father's Occupation by Infant's Type of Feeding, Live Births Only, 2004

Singleton Births

Father's Occupation	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Frequency					
Row Per Cent					
Col. Per Cent					
Farmers & Farm Managers	1,294	986	49	7	2,336
	55.4	42.2	2.1	0.3	100.0
	4.0	3.9	2.6	4.4	3.9
Other Agricultural Occupations & Fishermen	347	242	20	1	610
	56.9	39.7	3.3	0.2	100.0
	1.1	1.0	1.1	0.6	1.0
Higher-Professional	1,197	2,603	159	8	3,967
	30.2	65.6	4.0	0.2	100.0
	3.7	10.2	8.4	5.0	6.6
Lower-Professional	804	1,704	116	2	2,626
	30.6	64.9	4.4	0.1	100.0
	2.5	6.7	6.1	1.3	4.4
Managers	2,326	2,739	162	5	5,232
	44.5	52.4	3.1	0.1	100.0
	7.2	10.7	8.5	3.1	8.7
Salaried-Employees	746	683	73	4	1,506
	49.5	45.4	4.9	0.3	100.0
	2.3	2.7	3.8	2.5	2.5
Non-Manual Workers	2,377	2,226	162	9	4,774
	49.8	46.6	3.4	0.2	100.0
	7.3	8.7	8.5	5.7	7.9
Other Non-Manual Workers	2,634	1,932	143	12	4,721
	55.8	40.9	3.0	0.3	100.0
	8.1	7.6	7.5	7.6	7.8
Skilled Manual Workers	6,711	5,105	329	35	12,180
	55.1	41.9	2.7	0.3	100.0
	20.6	20.0	17.3	22.0	20.2
Semi-skilled Manual Workers	1,424	725	58	7	2,214
	64.3	32.8	2.6	0.3	100.0
	4.4	2.8	3.1	4.4	3.7
Unskilled Manual Workers	443	142	8	0	593
	74.7	24.0	1.4	0.0	100.0
	1.4	0.6	0.4	0.0	1.0
Unemployed	1,140	665	119	7	1,931
	59.0	34.4	6.2	0.4	100.0
	3.5	2.6	6.3	4.4	3.2
Not Classifiable	591	779	102	2	1,474
	40.1	52.9	6.9	0.1	100.0
	1.8	3.0	5.4	1.3	2.4
Not Applicable	10,176	4,654	304	56	15,190
	67.0	30.6	2.0	0.4	100.0
	31.3	18.2	16.0	35.2	25.2
Not Stated	321	409	98	4	832
	38.6	49.2	11.8	0.5	100.0
	1.0	1.6	5.2	2.5	1.4
Total	32,531	25,594	1,902	159	60,186
	54.1	42.5	3.2	0.3	100.0
	100.0	100.0	100.0	100.0	100.0

Notes:

- In this table 'Not Classifiable' includes 145 fathers whose occupation was recorded as 'Home Duties'.
 'See Appendix C for a description of the classification system for occupations.
- 'Not Stated' contains 95 Early Neonatal Deaths for which Type of Feeding was not stated.

Table F16
Mother's Occupation by Infant's Type of Feeding, Live Births Only, 2004

Singleton Births

Mother's Occupation	Type of Feeding				
	Artificial	Breast	Combined	Not Stated	Total
Frequency					
Row Per Cent					
Col. Per Cent					
Farmers & Farm Managers	53	50	2	0	105
	50.5	47.6	1.9	0.0	100.0
	0.2	0.2	0.1	0.0	0.2
Other Agricultural Occupations & Fishermen	28	62	3	1	94
	29.8	66.0	3.2	1.1	100.0
	0.1	0.2	0.2	0.6	0.2
Higher-Professional	837	2,072	108	1	3,018
	27.7	68.7	3.6	0.0	100.0
	2.6	8.1	5.7	0.6	5.0
Lower-Professional	2,454	4,753	249	21	7,477
	32.8	63.6	3.3	0.3	100.0
	7.5	18.6	13.1	13.2	12.4
Managers	1,811	2,041	128	5	3,985
	45.5	51.2	3.2	0.1	100.0
	5.6	8.0	6.7	3.1	6.6
Salaried-Employees	503	508	44	3	1,058
	47.5	48.0	4.2	0.3	100.0
	1.6	2.0	2.3	1.9	1.8
Non-Manual Workers	8,338	5,202	318	38	13,896
	60.0	37.4	2.3	0.3	100.0
	25.6	20.3	16.7	23.9	23.1
Other Non-Manual Workers	3,931	2,373	174	23	6,501
	60.5	36.5	2.7	0.4	100.0
	12.1	9.3	9.2	14.5	10.8
Skilled Manual Workers	376	456	27	3	862
	43.6	52.9	3.1	0.4	100.0
	1.2	1.8	1.4	1.9	1.4
Semi-skilled Manual Workers	1,643	547	32	6	2,228
	73.7	24.6	1.4	0.3	100.0
	5.1	2.1	1.7	3.8	3.7
Unskilled Manual Workers	9	1	0	0	10
	90.0	10.0	0.0	0.0	100.0
	0.0	0.0	0.0	0.0	0.0
Unemployed	1,829	634	90	7	2,560
	71.5	24.8	3.5	0.3	100.0
	5.6	2.5	4.7	4.4	4.3
Not Classifiable	1,382	890	94	11	2,377
	58.1	37.4	4.0	0.5	100.0
	4.3	3.5	4.9	6.9	3.9
Home Duties	9,076	5,736	559	36	15,407
	58.9	37.2	3.6	0.2	100.0
	27.9	22.4	29.4	22.6	25.6
Not Stated	261	269	74	4	608
	42.9	44.2	12.2	0.7	100.0
	0.8	1.1	3.9	2.5	1.0
Total	32,531	25,594	1,902	159	60,186
	54.1	42.5	3.2	0.3	100.0
	100.0	100.0	100.0	100.0	100.0

Note:

- '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 95 Early Neonatal Deaths for which Type of Feeding was not stated.

Table F17
Infant's Type of Feeding by Maternal Parity, Live Births Only, 2004

Singleton Births

Type of Feeding	Maternal Parity									
	0	1	2	3	4	5	6	More than 6	Not Stated	Total
Artificial	12,008	10,811	5,912	2,331	791	353	155	158	12	32,531
	36.9	33.2	18.2	7.2	2.4	1.1	0.5	0.5	0.0	100.0
	49.8	55.6	57.3	57.6	60.7	67.8	69.8	75.2	44.4	54.1
Breast	11,217	7,979	4,095	1,577	454	152	58	47	15	25,594
	43.8	31.2	16.0	6.2	1.8	0.6	0.2	0.2	0.1	100.0
	46.6	41.1	39.7	38.9	34.8	29.2	26.1	22.4	55.6	42.5
Combined	802	595	294	129	56	15	9	2	0	1,902
	42.2	31.3	15.5	6.8	2.9	0.8	0.5	0.1	0.0	100.0
	3.3	3.1	2.9	3.2	4.3	2.9	4.1	1.0	0.0	3.2
Not Stated	72	47	21	13	2	1	0	3	0	159
	45.3	29.6	13.2	8.2	1.3	0.6	0.0	1.9	0.0	100.0
	0.3	0.2	0.2	0.3	0.2	0.2	0.0	1.4	0.0	0.3
Total	24,099	19,432	10,322	4,050	1,303	521	222	210	27	60,186
	40.0	32.3	17.2	6.7	2.2	0.9	0.4	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

Appendix G

Wigglesworth Classification of Cause of Death, 2004

Basis of System

In this section perinatal deaths are classified according to the system devised by Dr. J. S. Wigglesworth. The system is purposely designed to be relatively straightforward and to overcome some of the inherent difficulties of subjectivity and lack of uniformity in the assignment of causes of perinatal death.⁸ With the aim of identifying areas with implications for perinatal care, five mutually exclusive and clinically relevant categories are suggested. Cross-classification of these categories by birthweight can then be used to highlight areas of particular concern.⁹

Method of Classification

The five broad pathological subgroups employed in the Wigglesworth classification are as follows:

1. Normally formed macerated stillbirth.
2. Congenital malformations (stillbirth or early neonatal death).
3. Conditions associated with immaturity (early neonatal death).
4. Asphyxial conditions developing in labour (stillbirth or early neonatal death).
5. Specific conditions other than the above.

The assignment of a unique Wigglesworth class to each perinatal death presents a number of difficulties. The first and most general of these results from the fact that no standard system has yet been devised for the translation of the ICD codes relating to main cause of death into the corresponding categories suggested by Wigglesworth. In most cases the assignment is straightforward, but in certain instances (for example, preterm births where asphyxia is indicated or stillbirths where antepartum haemorrhage is recorded), the appropriate classification is not immediately obvious and additional variables require consideration. For these reasons, gestational age and type of stillbirth (i.e. antepartum or intrapartum) are taken into account in the classification system described below. In adopting this system, note has also been taken of a number of pilot schemes carried out in Britain as well as the guidelines set out by Dr. Wigglesworth.¹⁰

⁸Wigglesworth, J. S., 1980, "Monitoring Perinatal Mortality", *The Lancet*, Vol. 2, pp.684-686.

⁹ The analysis by Wigglesworth's categories, unlike the main report, includes 49 births that weighed less than 500 grams. The outcomes of these births were 33 stillbirths and 16 early neonatal deaths.

¹⁰ a) South East Thames Perinatal Monitoring Group, *Confidential Enquiry into Perinatal Deaths*, 1986.
b) Unpublished report, "Scottish Stillbirth and Neonatal Death Enquiry", based on 1985 data.

Wigglesworth Classes	Assignment Criteria	ICD Codes (where appropriate)
Macerated stillbirth	<ul style="list-style-type: none"> All intrapartum deaths where maceration is indicated as main cause of death. Antepartum deaths not due to antepartum haemorrhage and not assigned to any other category. 	-
Congenital malformations (stillbirth or early neonatal death)	<ul style="list-style-type: none"> All major congenital anomalies (stillbirth or early neonatal deaths). 	740-742, 745-748, 750.3, 750.6, 751.1-751.8, 753, 756.0, 756.6, 756.7, 758-759
Immaturity (early neonatal death)	<ul style="list-style-type: none"> All first week deaths due to structural lung immaturity and Hyaline Membrane Disease. First week deaths of less than 37 weeks gestation period where cause of death is not stated or does not fall into any other category. 	765, 769.0, 770.4, 772.1, 777.5
Asphyxia (stillbirth or early neonatal death)	<ul style="list-style-type: none"> All first week deaths due to birth trauma and birth asphyxia. First week deaths of 37 or more weeks gestation or gestation unknown where cause is not stated or does not fall into any other category. Antepartum deaths due to antepartum haemorrhage. All intrapartum stillbirths except those due to specific conditions or congenital malformations. 	762.0, 762.1, 762.4, 762.5, 767-768
Specific conditions (stillbirth or early neonatal death)	<ul style="list-style-type: none"> Infection, isoimmunisation or other haemorrhage in the newborn. 	760.1-760.5, 762.3, 770.0, 771, 773, 775, 777.0, 778.0

Results

Tabulations based on the Wigglesworth classification are presented in the following pages. Table G1 indicates the percentage of perinatal deaths attributable to each cause for 2004. Table G2 provides a classification of cause of death by birthweight and indicates cause and weight specific perinatal mortality rates for 2004. It is this table that shows the practical clinical implications of the Wigglesworth coding. Figure G1 is derived from the data contained in Table G2 and shows how the percentage contribution to perinatal mortality of each cause changes with birthweight group. Table G3 provides the same cross tabulations as Table G2 but uses a different definition of stillbirth based on 28 weeks gestation period. This is provided to facilitate possible local or international comparisons.

Table G1
Wigglesworth Classification for All Perinatal Deaths, 2004

Class	Frequency	Per Cent	Cumulative Frequency	Cumulative Per Cent
Macerated Stillbirths	218	39.2	218	39.2
Congenital Malformations	126	22.7	344	61.9
Immaturity	80	14.4	424	76.3
Asphyxial Conditions	79	14.2	503	90.5
Specific Conditions	53	9.5	556	100.0

Table G2
Birthweight Specific Perinatal Mortality Rates, 2004

Wigglesworth Classification

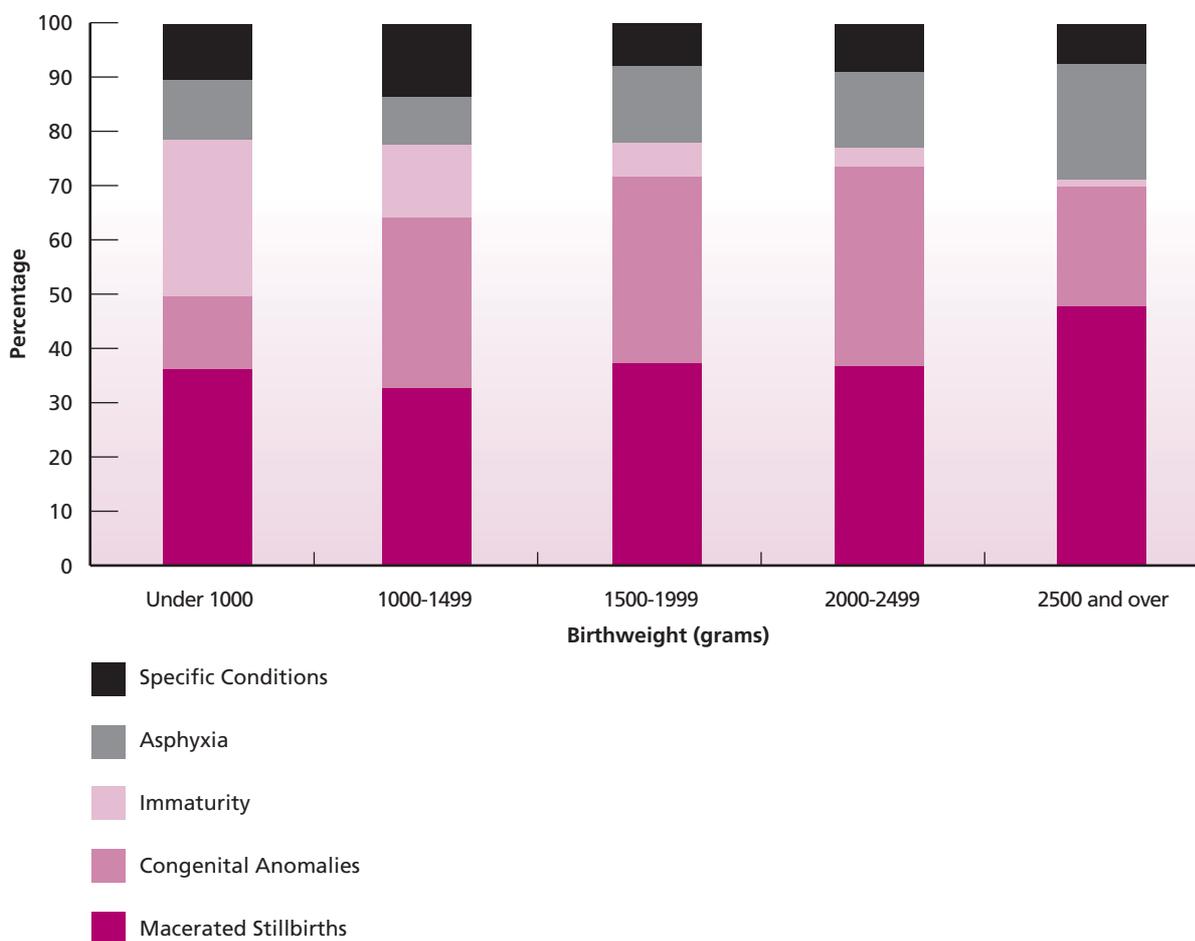
Birthweight (grams)	Macerated Stillbirths		Congenital Anomalies		Immaturity		Asphyxia		Specific Conditions		Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 1000	78	210.2	29	78.2	62	167.1	24	64.7	22	59.3	215	579.5
1000-1499	22	56.6	21	54.0	9	23.1	6	15.4	9	23.1	67	172.2
1500-1999	24	34.5	22	31.7	4	5.8	9	13.0	5	7.2	64	92.1
2000-2499	21	10.9	21	10.9	2	1.0	8	4.1	5	2.6	57	29.5
2500 and over	72	1.2	33	0.6	2	0.0	32	0.5	11	0.2	150	2.5
Not Stated	1	38.5	0	0.0	1	38.5	0	0.0	1	38.5	3	115.4
Total	218	3.5	126	2.0	80	1.3	79	1.3	53	0.8	556	8.9

Table G3
Numbers of Perinatal Deaths and Mortality Rates by Cause of Death and Birthweight, 2004

Wigglesworth Classification
 using the ≥ 28 weeks definition of a Stillbirth

Birthweight (grams)	Macerated Stillbirths		Congenital Anomalies		Immaturity		Asphyxia		Specific Conditions		Total	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
Under 1000	30	103.8	24	83.0	62	214.5	7	24.2	10	34.6	133	460.2
1000-1499	20	52.5	20	52.5	9	23.6	5	13.1	5	13.1	59	154.9
1500-1999	23	33.2	21	30.4	4	5.8	9	13.0	4	5.8	61	88.2
2000-2499	19	9.8	21	10.9	2	1.0	8	4.1	5	2.6	55	28.5
2500 and over	72	1.2	33	0.6	2	0.0	32	0.5	10	0.2	149	2.5
Not Stated	1	38.5	0	0.0	1	38.5	0	0.0	1	38.5	3	115.4
Total	165	2.6	119	1.9	80	1.3	61	1.0	35	0.6	460	7.4

Figure G1
Wigglesworth Classification: Percentage Distribution of Perinatal Cause of Death
by Birthweight Groups, 2004



Note: See Appendix G, Table G2 for data. 'Not Stated' data are not included in the calculation of percentages.

Appendix H

Domiciliary Births: 1999-2004 Cross-Tabulations of Selected Variables: 2004

These births have been included, where appropriate, 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. For 2000 the number of domiciliary births fell to 216 and again reported 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 the number of domiciliary births decreased to 236. Of these, there were no stillbirths and no early neonatal deaths. There were no domiciliary multiple births in 2003. The number of domiciliary births continued to decline in 2004 with 202 planned domiciliary home births recorded for this year. Of these, there were no stillbirths and one early neonatal death. There were no domiciliary multiple births in 2004.

The tables that follow (H1-H8) present selected statistics on domiciliary births for 1999-2004 and contain a range of cross-tabulations relating to all domiciliary births for 2004. 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 - 2004

Selected Statistics	1999	2000	2001	2002	2003	2004
General Characteristics						
Average Age of Mother in years	33.47	33.33	33.18	34.07	34.01	34.31
Average Maternal Parity	1.52	1.62	1.40	2.07	1.63	1.60
Single Mothers (%)	25.20	29.63	31.56	22.57	27.97	29.21
Average weight in grams						
-Total Live Births	3,699.46	3,726.71	3,686.75	3,730.06	3,754.25	3,738.40
Low birthweight <2500 grams (%)						
-Total Live Births	0.43	1.86	0.00	0.35	0.00	0.99
Average Gestational Age at delivery in weeks	40.04	39.92	40.02	40.14	40.05	39.99
Average interval since last birth in years	3.46	3.40	3.82	3.74	3.65	3.54
Perinatal Care						
Midwife and Hospital/GP combined antenatal care (%)*	59.76	57.87	55.33	57.29	66.10	64.36
Immunity to Rubella (%)	92.34	90.70	93.44	91.61	94.07	97.03
Mothers breastfeeding (%) ¹	98.25	96.63	95.02	94.04	94.07	97.51

* This figure applies to the percentage of homebirths where Antenatal Care is stated as 'Combined', rather than Antenatal Care with 'Midwife Only'.

Note:

- There were no domiciliary multiple births in either 1999 or 2000.
- There was 1 set of domiciliary Twin births in 2001.
- There were no domiciliary multiple births in 2002, 2003 or 2004.
- Missing values are not included in the calculation of percentages.
- ¹ Excludes early neonatal deaths.

Table H2
Age of Mother by Maternal Parity, 2004

Domiciliary Births

Age of Mother	Maternal Parity								
	0	1	2	3	4	5	6	More than 6	Total
20-24 Years	6	2	0	0	0	0	0	0	8
	75.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
	13.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	4.0
25-29 Years	12	6	5	0	0	0	0	0	23
	52.2	26.1	21.7	0.0	0.0	0.0	0.0	0.0	100.0
	27.3	10.0	8.8	0.0	0.0	0.0	0.0	0.0	11.4
30-34 Years	19	30	23	4	3	1	0	0	80
	23.8	37.5	28.8	5.0	3.8	1.3	0.0	0.0	100.0
	43.2	50.0	40.4	16.0	33.3	20.0	0.0	0.0	39.6
35-39 Years	6	18	22	17	3	1	0	1	68
	8.8	26.5	32.4	25.0	4.4	1.5	0.0	1.5	100.0
	13.6	30.0	38.6	68.0	33.3	20.0	0.0	100.0	33.7
40-44 Years	1	4	7	4	3	3	1	0	23
	4.4	17.4	30.4	17.4	13.0	13.0	4.4	0.0	100.0
	2.3	6.7	12.3	16.0	33.3	60.0	100.0	0.0	11.4
Total	44	60	57	25	9	5	1	1	202
	21.8	29.7	28.2	12.4	4.5	2.5	0.5	0.5	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table H3
Age of Mother by Gestational Age at Delivery, 2004

Domiciliary Births

Age of Mother Frequency Row Per Cent Col. Per Cent	Gestational Age (weeks)		
	37-41	42 and over	Total
20-24 Years	8 100.0 4.3	0 0.0 0.0	8 100.0 4.0
25-29 Years	21 91.3 11.2	2 8.7 13.3	23 100.0 11.4
30-34 Years	75 93.8 40.1	5 6.3 33.3	80 100.0 39.6
35-39 Years	63 92.7 33.7	5 7.4 33.3	68 100.0 33.7
40-44 Years	20 87.0 10.7	3 13.0 20.0	23 100.0 11.4
Total	187 92.6 100.0	15 7.4 100.0	202 100.0 100.0

Table H4
Birthweight by Gestational Age at Delivery, 2004

Domiciliary Births

Birthweight (grams)	Gestational Age (weeks)		
	37-41	42 and over	Total
Frequency			
Row Per Cent			
Col. Per Cent			
2000-2499	2	0	2
	100.0	0.0	100.0
	1.1	0.0	1.0
2500-2999	8	0	8
	100.0	0.0	100.0
	4.3	0.0	4.0
3000-3499	43	1	44
	97.7	2.3	100.0
	23.0	6.7	21.8
3500-3999	74	8	82
	90.2	9.8	100.0
	39.6	53.3	40.6
4000-4499	49	4	53
	92.5	7.6	100.0
	26.2	26.7	26.2
4500 and over	11	2	13
	84.6	15.4	100.0
	5.9	13.3	6.4
Total	187	15	202
	92.6	7.4	100.0
	100.0	100.0	100.0

Table H5
Mother's Occupation by Birthweight, 2004

Domiciliary Births

Mother's Occupation	Birthweight (grams)						
	2000-2499	2500-2999	3000-3499	3500-3999	4000-4499	4500 and over	Total
Other Agricultural Occupations & Fishermen	0 0.0 0.0	0 0.0 0.0	1 25.0 2.3	2 50.0 2.4	0 0.0 0.0	1 25.0 7.7	4 100.0 2.0
Higher-Professional	0 0.0 0.0	0 0.0 0.0	2 12.5 4.6	9 56.3 11.0	5 31.3 9.4	0 0.0 0.0	16 100.0 7.9
Lower-Professional	1 1.3 50.0	3 3.9 37.5	17 22.1 38.6	27 35.1 32.9	22 28.6 41.5	7 9.1 53.9	77 100.0 38.1
Managers	0 0.0 0.0	1 8.3 12.5	4 33.3 9.1	3 25.0 3.7	3 25.0 5.7	1 8.3 7.7	12 100.0 5.9
Salaried-Employees	0 0.0 0.0	1 33.3 12.5	1 33.3 2.3	0 0.0 0.0	1 33.3 1.9	0 0.0 0.0	3 100.0 1.5
Non-Manual Workers	0 0.0 0.0	0 0.0 0.0	5 33.3 11.4	6 40.0 7.3	2 13.3 3.8	2 13.3 15.4	15 100.0 7.4
Other Non-Manual Workers	0 0.0 0.0	2 20.0 25.0	1 10.0 2.3	6 60.0 7.3	1 10.0 1.9	0 0.0 0.0	10 100.0 5.0
Skilled Manual Workers	1 33.3 50.0	0 0.0 0.0	1 33.3 2.3	1 33.3 1.2	0 0.0 0.0	0 0.0 0.0	3 100.0 1.5
Unemployed	0 0.0 0.0	0 0.0 0.0	1 33.3 2.3	1 33.3 1.2	1 33.3 1.9	0 0.0 0.0	3 100.0 1.5
Not Classifiable	0 0.0 0.0	0 0.0 0.0	1 25.0 2.3	2 50.0 2.4	1 25.0 1.9	0 0.0 0.0	4 100.0 2.0
Home Duties	0 0.0 0.0	1 1.8 12.5	10 18.2 22.7	25 45.5 30.5	17 30.9 32.1	2 3.6 15.4	55 100.0 27.2
Total	2 1.0 100.0	8 4.0 100.0	44 21.8 100.0	82 40.6 100.0	53 26.2 100.0	13 6.4 100.0	202 100.0 100.0

Table H6
Marital Status by Age of Mother, 2004

Domiciliary Births

Mother's Marital Status	Age of Mother					
	20-24 Years	25-29 Years	30-34 Years	35-39 Years	40-44 Years	Total
Frequency						
Row Per Cent						
Col. Per Cent						
Married	1	13	55	52	19	140
	0.7	9.3	39.3	37.1	13.6	100.0
	12.5	56.5	68.8	76.5	82.6	69.3
Single	7	10	24	14	4	59
	11.9	17.0	40.7	23.7	6.8	100.0
	87.5	43.5	30.0	20.6	17.4	29.2
Separated	0	0	0	2	0	2
	0.0	0.0	0.0	100.0	0.0	100.0
	0.0	0.0	0.0	2.9	0.0	1.0
Divorced	0	0	1	0	0	1
	0.0	0.0	100.0	0.0	0.0	100.0
	0.0	0.0	1.3	0.0	0.0	0.5
Total	8	23	80	68	23	202
	4.0	11.4	39.6	33.7	11.4	100.0
	100.0	100.0	100.0	100.0	100.0	100.0

Table H7
Father's Occupation by Infant's Type of Feeding, Live Births Only, 2004

Domiciliary Births

Father's Occupation	Type of Feeding			
	Artificial	Breast	Combined	Total
Frequency				
Row Per Cent				
Col. Per Cent				
Farmers & Farm Managers	0	6	0	6
	0.0	100.0	0.0	100.0
	0.0	3.1	0.0	3.0
Other Agricultural Occupations & Fishermen	0	5	0	5
	0.0	100.0	0.0	100.0
	0.0	2.6	0.0	2.5
Higher-Professional	1	25	0	26
	3.9	96.2	0.0	100.0
	20.0	12.8	0.0	12.9
Lower-Professional	1	28	0	29
	3.5	96.6	0.0	100.0
	20.0	14.3	0.0	14.4
Managers	0	25	0	25
	0.0	100.0	0.0	100.0
	0.0	12.8	0.0	12.4
Salaried-Employees	0	5	0	5
	0.0	100.0	0.0	100.0
	0.0	2.6	0.0	2.5
Non-Manual Workers	0	20	0	20
	0.0	100.0	0.0	100.0
	0.0	10.2	0.0	9.9
Other Non-Manual Workers	1	22	0	23
	4.4	95.7	0.0	100.0
	20.0	11.2	0.0	11.4
Skilled Manual Workers	1	43	1	45
	2.2	95.6	2.2	100.0
	20.0	21.9	100.0	22.3
Unemployed	0	3	0	3
	0.0	100.0	0.0	100.0
	0.0	1.5	0.0	1.5
Not Classifiable	1	9	0	10
	10.0	90.0	0.0	100.0
	20.0	4.6	0.0	5.0
Not Applicable	0	5	0	5
	0.0	100.0	0.0	100.0
	0.0	2.6	0.0	2.5
Total	5	196	1	202
	2.5	97.0	0.5	100.0
	100.0	100.0	100.0	100.0

Note: In this table 'Not Classifiable' includes 1 father whose occupation was recorded as 'Home Duties'. 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 Only, 2004

Domiciliary Births

Mother's Occupation	Type of Feeding			
	Artificial	Breast	Combined	Total
Frequency				
Row Per Cent				
Col. Per Cent				
Other Agricultural Occupations & Fishermen	0 0.0 0.0	4 100.0 2.0	0 0.0 0.0	4 100.0 2.0
Higher-Professional	1 6.3 20.0	15 93.8 7.7	0 0.0 0.0	16 100.0 7.9
Lower-Professional	0 0.0 0.0	77 100.0 39.3	0 0.0 0.0	77 100.0 38.1
Managers	0 0.0 0.0	12 100.0 6.1	0 0.0 0.0	12 100.0 5.9
Salaried-Employees	0 0.0 0.0	3 100.0 1.5	0 0.0 0.0	3 100.0 1.5
Non-Manual Workers	0 0.0 0.0	15 100.0 7.7	0 0.0 0.0	15 100.0 7.4
Other Non-Manual Workers	1 10.0 20.0	8 80.0 4.1	1 10.0 100.0	10 100.0 5.0
Skilled Manual Workers	0 0.0 0.0	3 100.0 1.5	0 0.0 0.0	3 100.0 1.5
Unemployed	0 0.0 0.0	3 100.0 1.5	0 0.0 0.0	3 100.0 1.5
Not Classifiable	0 0.0 0.0	4 100.0 2.0	0 0.0 0.0	4 100.0 2.0
Home Duties	3 5.5 60.0	52 94.6 26.5	0 0.0 0.0	55 100.0 27.2
Total	5 2.5 100.0	196 97.0 100.0	1 0.5 100.0	202 100.0 100.0

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

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 are 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 I1
Time of First Visit to Doctor or Hospital During Pregnancy

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Singleton Births

Time of First Visit (Weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0-12	28,771	47.8	144	5.0	69	2.4	7.4	5.5
13-19	21,166	35.2	89	4.2	35	1.7	5.8	4.3
20 and over	7,492	12.4	51	6.8	21	2.8	9.5	6.6
Not Stated	2,757	4.6	29	10.4	15	5.4	15.8	13.0
Total	60,186	100.0	313	5.2	140	2.3	7.5	5.6

Table I2
Time of First Visit to Doctor or Hospital During Pregnancy

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2004

Multiple Births

Time of First Visit (Weeks)	Live Births	Per Cent (%) Live Births	Stillbirths	Stillbirth Rate	Early Neonatal Deaths	Early Neonatal Rate	Perinatal Mortality Rate	Adjusted PMR
0-12	886	47.1	10	11.2	16	18.1	29.0	22.5
13-19	659	35.0	10	14.9	4	6.1	20.9	20.9
20 and over	218	11.6	2	9.1	3	13.8	22.7	13.8
Not Stated	118	6.3	4	32.8	5	42.4	73.8	73.8
Total	1,881	100.0	26	13.6	28	14.9	28.3	24.2

Table 13

Mother's Marital Status by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy, Live Births and Stillbirths, 2004

Singleton Births

Mother's Marital Status	Gestational Age at First Visit (weeks)				
	0-12	13-19	20 and over	Not Stated	Total
Frequency					
Row Per Cent					
Col. Per Cent					
Married	20,661	13,576	4,253	2,363	40,853
	50.6	33.2	10.4	5.8	100.0
	71.5	63.9	56.4	84.8	67.5
Single	7,774	7,312	3,103	403	18,592
	41.8	39.3	16.7	2.2	100.0
	26.9	34.4	41.1	14.5	30.7
Widowed	29	20	23	1	73
	39.7	27.4	31.5	1.4	100.0
	0.1	0.1	0.3	0.0	0.1
Separated	323	251	131	12	717
	45.1	35.0	18.3	1.7	100.0
	1.1	1.2	1.7	0.4	1.2
Divorced	125	92	30	5	252
	49.6	36.5	11.9	2.0	100.0
	0.4	0.4	0.4	0.2	0.4
Not Stated	3	4	3	2	12
	25.0	33.3	25.0	16.7	100.0
	0.0	0.0	0.0	0.1	0.0
Total	28,915	21,255	7,543	2,786	60,499
	47.8	35.1	12.5	4.6	100.0
	100.0	100.0	100.0	100.0	100.0

Table I4
Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital
During Pregnancy, Live Births and Stillbirths, 2004

Singleton Births

Interval Since Last Birth	Gestational Age at First Visit (weeks)				
	0-12	13-19	20 and over	Not Stated	Total
Frequency					
Row Per Cent					
Col. Per Cent					
No Previous Births	11,873	8,373	2,884	1,083	24,213
	49.0	34.6	11.9	4.5	100.0
	41.1	39.4	38.2	38.9	40.0
1 year or less	222	205	138	33	598
	37.1	34.3	23.1	5.5	100.0
	0.8	1.0	1.8	1.2	1.0
>1 year to 2 years	3,944	3,119	1,483	428	8,974
	44.0	34.8	16.5	4.8	100.0
	13.6	14.7	19.7	15.4	14.8
>2 years to 3 years	4,434	3,127	1,116	465	9,142
	48.5	34.2	12.2	5.1	100.0
	15.3	14.7	14.8	16.7	15.1
>3 years to 4 years	2,883	2,067	628	283	5,861
	49.2	35.3	10.7	4.8	100.0
	10.0	9.7	8.3	10.2	9.7
>4 years to 5 years	1,797	1,337	409	149	3,692
	48.7	36.2	11.1	4.0	100.0
	6.2	6.3	5.4	5.3	6.1
>5 years to 6 years	1,141	865	245	63	2,314
	49.3	37.4	10.6	2.7	100.0
	4.0	4.1	3.3	2.3	3.8
More than 6 years	2,489	2,007	550	155	5,201
	47.9	38.6	10.6	3.0	100.0
	8.6	9.4	7.3	5.6	8.6
Number of Previous Births	9	4	0	6	19
Unknown	47.4	21.1	0.0	31.6	100.0
	0.0	0.0	0.0	0.2	0.0
Not Stated	123	151	90	121	485
	25.4	31.1	18.6	25.0	100.0
	0.4	0.7	1.2	4.3	0.8
Total	28,915	21,255	7,543	2,786	60,499
	47.8	35.1	12.5	4.6	100.0
	100.0	100.0	100.0	100.0	100.0

Appendix J

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.

Country groupings are as follows:

Ireland

includes the following:

Ireland
Irish English
Irish American
Irish European
Irish Other

UK

includes the following:

Great Britain
England
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	Liechtenstein
Andorra	Macedonia, The Former
Armenia	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
Jersey	

Africa

includes the following:

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

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)	Uruguay
French Guiana	Venezuela
Greenland	Virgin Islands, British
Grenada	Virgin Island, US
Guadeloupe	United States
Guatemala	

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



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