Perinatal Statistics Report

Health Research and Information Division

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2011



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The production of this annual report requires commitment and hard work from many individuals. Responsibility for the collection of perinatal data for the National Perinatal Reporting System (NPRS) rests with colleagues in maternity hospitals and units throughout Ireland together with independent midwives. We gratefully acknowledge the input of medical records staff, IT personnel, and administrative departments, together with hospital managers. We are indebted to these individuals for their support and efforts.

In addition to financing the NPRS, the Department of Health and the Health Service Executive continue to provide essential support for the operation and development of this system. In particular, we would like to express our gratitude to Professor Michael Turner (Director of the HSE Obstetrics and Gynaecology programme), Alan Cahill and Gráinne Cosgrove (DoH) for their valuable contributions and comments on an early draft of this report.

The NPRS team within the Economic and Social Research Institute's Health Research and Information Division (HRID) oversees a wide range of tasks related to the management of this system, including personnel training, data quality and audit, data management and analysis, and information dissemination. We acknowledge gratefully the dedication, skill and expertise that all the members of this team bring to their work on this system. Collection and preparation of the data are undertaken by Malgorzata Chance, Catherine Glennon, Anna Lewandowska, and Izabela Sikora. The IT Department of the HRID supports the development of the NPRS software system for data entry and validation and this is gratefully acknowledged. We would also like to thank specifically Léan McMahon and Deirdre Murphy for reviewing and commenting on earlier drafts of this report.

Inevitably, a number of individuals have to carry most of the responsibility for producing a report of this type. In this case Sheelagh Bonham, Aisling Mulligan, and Sinead O'Hara, were to the fore in the preparation of the report for publication with assistance from Nathan Cunningham, Karen Kearns, Shane Leavy and Laura Metcalfe. We wish to express our sincere thanks to these colleagues for all of their hard work on the report. Their commitment, enthusiasm and professionalism are gratefully acknowledged and sincerely appreciated.

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KEY FINDINGS

The Perinatal Statistics Report 2011 presents national statistics on perinatal events in Ireland. This report is based on data collected for the National Perinatal Reporting System (NPRS) and provides information on mothers giving birth and babies born in 2011.

SUMMARY STATISTICS, 2011

Live Births, Stillbirths, Early Neonatal Deaths, Perinatal Deaths, and Adjusted Perinatal Deaths

| | Total Births | Live Births | Stillbirths | | Early Neonatal Deaths | | Perina Death | | Adjusted Perinatal Deaths [#] | |
|-----------|--------------|-------------|-------------|-------|--------------------------|-------|-----------------|-------|---|-------|
| | Number | Number | Number | Rate* | Number | Rate* | Number | Rate* | Number | Rate* |
| Singleton | 71,651 | 71,375 | 276 | 3.9 | 126 | 1.8 | 402 | 5.6 | 275 | 3.8 |
| Multiple | 2,726 | 2,705 | 21 | 7.7 | 27 | 10.0 | 48 | 17.6 | 33 | 12.2 |
| Total | 74,377 | 74,080 | 297 | 4.0 | 153 | 2.1 | 450 | 6.1 | 308 | 4.1 |

Notes:

- * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. See Appendix A for further details on calculation of rates.
- # In this and subsequent tables, 'Adjusted Perinatal Rate' excludes all deaths due to congenital anomalies.

BABIES, 2011

- 74,377 births were reported to NPRS in 2011, representing a 1.6 per cent decrease between 2010 and 2011
- 6% of total births were preterm (less than 37 weeks gestation)
- 5% of live births were low birthweight (less than 2,500 grams)
- 3% of live births were high birthweight (4,500 grams or more)
- 55% of babies recorded any breastfeeding in 2011, compared to 51% in 2007 and 44% in 2002
- 47% of babies were exclusively breastfed, compared to 45% in 2007 and 41% in 2002
- 28% of total live births were delivered by caesarean section, with 27% of singleton and 66% of multiple live births
 delivered by this method. In 2002, 22% of total live births were delivered by caesarean section
- 96% of singleton births and 66% of multiple births were discharged from hospital within 5 days of birth
- The perinatal mortality rate was 6.1 per 1,000 live births and stillbirths (5.6 per 1,000 singleton births and 17.6 per 1,000 multiple births). This rate has fallen by 28% since 2002, when it was 8.4 per 1,000 live births and stillbirths
- At 10.7 per 1,000 live births and stillbirths, the perinatal mortality rate was highest for babies born to mothers aged 40 to 44 years. The lowest perinatal mortality rate of 5.3 per 1,000 live births and stillbirths was for babies born to mothers aged between the 25 to 29 and 35 to 39 year age groups.

MOTHERS, 2011

- The average age of mothers has increased from 30.4 years in 2002 to 31.7 years in 2011
- 29% of mothers were aged 35 years or older, up from 23% in 2002
- 17% of first births were to women aged 35 years or older compared to 11% in 2002
- 2% of total mothers giving birth were aged 19 years or younger, compared to 5% in 2002
- 40% gave birth for the first time, with an average age for first time mothers of 29.8 years
- 33% of births were to single mothers, who had an average age of 28.3 years
- 2% had a multiple pregnancy
- 55% of mothers recorded any breastfeeding, compared to 51% in 2007 and 44% in 2002
- 47% of mothers exclusively breastfed, compared to 45% in 2007 and 41% in 2002
- 57% of women having a singleton live birth delivered spontaneously, while deliveries using forceps accounted for 4%, vacuum extractions for 12%, and 27% by caesarean section
- For women having a singleton birth 55% had a postnatal length of stay of 2 days or less and 43% had a postnatal length of stay of 3-5 days
- For women having a multiple birth 13% had a postnatal length of stay of 2 days or less and 74% had a postnatal length of stay of 3-5 days
- 24% of births in 2011 were to mothers born outside Ireland compared to 21% in 2007.

SECTION ONE

INTRODUCTION

INTRODUCTION

The National Perinatal Reporting System (NPRS) within the Health Research and Information Division (HRID) at the Economic and Social Research Institute (ESRI) is responsible for the collection, processing, management and reporting of data on all births nationally. As the only complete national reporting system on births, it is a valuable resource for informing policy and service planning. The analysis presented in this report is based on data collected from Part 3 of the Birth Notification Form (BNF01/2003) which is used to notify local registrars of all live births and stillbirths occurring in Ireland (see Appendix B). Since 1999 the ESRI has managed the NPRS on behalf of the Department of Health and the Health Service Executive.

PURPOSE OF THIS REPORT

The principal aim of this report is to present national statistics on perinatal events for the year 2011. In so doing, the report aims to

- describe the fundamental social and biological characteristics of mothers and their babies
- report on pregnancy outcomes with particular reference to perinatal mortality
- highlight important aspects of perinatal care
- stimulate a wider interest in research in the area of perinatal epidemiology
- promote a general recognition of the importance of having an accurate and complete perinatal reporting system at a national level.

STRUCTURE OF THIS REPORT

SECTION ONE provides background information relating to the NPRS system, explains conventions used in the report, and provides details relating to the data elements collected in the system.

SECTION TWO contains summary data on selected variables since 2002 and trends in international comparisons.

SECTION THREE contains tables relating to the following variables: maternal age, marital status, socioeconomic group of mother and father (derived from collection of data on occupation), nationality of mother and father, maternal parity, distribution of previous stillbirths, interval since last birth, birthweight, gestational age, and month of birth.

SECTION FOUR presents tables relating to variables which fall more naturally into the category of the use of health care facilities, and deals in particular with the following: type of antenatal care received, timing of first antenatal visit, length of mother's antenatal and postnatal stay, whether hospital admission was

Previous reports in this series can be downloaded from www.esri.ie/health information/nprs/nprs reports/

booked or not, mother's immunity to rubella, method of delivery, classification of outcome according to size of maternity unit, transfer of infants between hospitals, length of infant's hospital stay, and type of feeding.

SECTION FIVE deals with perinatal outcomes in detail, examining perinatal deaths by birthweight and gestational age, with particular focus on cause of death. In this section, tables are presented on the following variables: numbers of antepartum and intrapartum stillbirths and early neonatal deaths by birthweight groups and gestational age, numbers and rates for cause of death, age at death for early neonatal deaths, and numbers and percentages of stillbirths and early neonatal deaths undergoing postmortem examinations.

APPENDICES include definitions, source data tables for figures, and other relevant information for use when reading the report. Appendix H deals with domiciliary births, including trends since 2002 and tables on selected variables for 2011.

CONVENTIONS USED IN THIS REPORT

- In accordance with the World Health Organization (WHO) guidelines, only births weighing 500 grams or more are included in any analysis of NPRS data. (See www.who.int/classifications/icd/ICD-10_2nd_ed_volume2.pdf; pg 96, 5.7.2. Reporting Criteria)
- The majority of tables report total, singleton and multiple births alongside the number of maternities, where applicable. Other tables report total maternities by primiparous and multiparous women for selected variables (see Appendix A for definitions).
- Unless otherwise stated, discussion on total births in this report includes live births and stillbirths for singleton and multiple births.
- Caution should be exercised when interpreting rates based on small numbers. Rates based on 20 observations or fewer are distinguished by italic type as a warning to the user that their reliability as a measure may be affected by the small number of observations. For further information on calculation of rates see Appendix A.
- Throughout this report 'Not Stated' values are not included in the calculation of percentages used in discussion or in compilation of figures. 'Not Stated' values are presented in data tables. 'Not Stated' values are reported by hospitals when information is not available.
- Deliveries under hospital schemes (including domino, early transfer home, planned community midwives, and midwifery-led units) are treated as hospital births.
- Fathers' details are only required for registration purposes where mother's marital status is recorded as 'married'. As a result, the proportion of records for which information is available is not complete and a category of 'not applicable' is required, this category is combined with 'not stated' for the purposes of presenting data on father's occupation and father's nationality in this report.

NATIONAL MINIMUM DATA SET

The NPRS data set provides a national minimum data set, which is intended to serve as a basis for the analyses of key indicators over time. Births are registered and notified on a standard four-part Birth Notification Form (BNF01/2003) used to notify local registrars of all live births and stillbirths occurring in Ireland. The third part of the form has all identifying information removed and is sent to the HRID at the ESRI (see Appendix B). Figure 1.1 provides a diagrammatic representation of the information system around the registration of births. All the tables in this report are based on data contained in the third part of the standard form.

The data collected by the NPRS can be grouped logically into demographic, clinical and administrative data as follows:

DEMOGRAPHIC DATA

- Date of infant's birth, sex of infant
- Date of father's birth, father's county and country of residence, father's occupation, father's nationality (from 2004)
- Date of mother's birth, mother's county and country of residence, mother's occupation, mother's nationality (from 2004)
- Marital status of mother and date of present marriage

CLINICAL DATA

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

ADMINISTRATIVE DATA

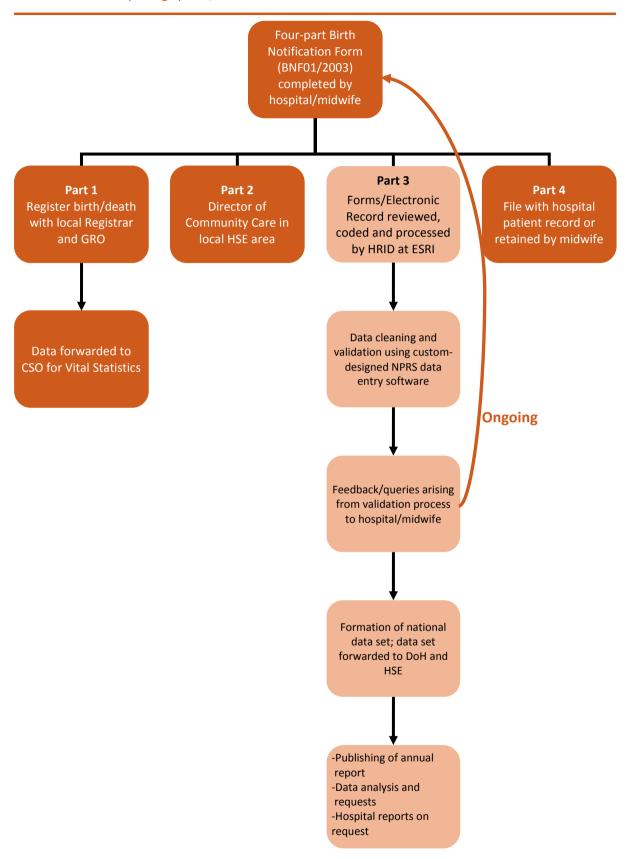
- Hospital number, case number (unique to hospital of birth)
- Type of birth indicator, place of birth
- Date of last birth (live birth or stillbirth)
- Type of death indicator, place of death
- Type of antenatal care received, dates of first visits to doctor and hospital during pregnancy
- Type of feeding,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

DATA COLLECTION AND QUALITY

The link between the Birth Notification Form and the birth registration process for the General Register Office (GRO) ensures complete coverage of all births for the NPRS (see Figure 1.1). With the objective of preserving confidentiality, each birth is recorded using case reference numbers unique to each hospital/maternity unit. Missing records can be identified using this unique case reference number system. Where a record is found to be missing, a request is made to the hospital/maternity unit to provide the birth notification form for any missing records. Similarly, independent midwives are requested to submit an annual summary of all births attended for a specified year, which is crosschecked against the birth notification forms received.

The Information Technology and Support team at the HRID has developed a custom-designed data entry and validation software system for NPRS data. Data are received, either in electronic or paper format, from the hospitals/independent midwives and entered in the NPRS data system. Quality checks include the application of a comprehensive series of edits, which are built into this software system to check for completeness, validity, logic, and coding errors. If problems are identified, clarification can be sought from the hospital or midwife and corrections can be made at the point of data entry. This data validation process is continually reviewed and new checks are incorporated based on data quality activities and research. The completeness of each record is dependent on the commitment of those persons responsible for notification and registration of the births in each hospital/maternity unit throughout the country and each independent midwife working in the community.

FIGURE 1.1National Perinatal Reporting System, Data Collection



SECTION TWO

TIME TRENDS AND INTERNATIONAL COMPARISONS

INTRODUCTION

This section presents selected statistics, together with data on the following three key indicators:

- 1) perinatal mortality
- 2) birth rate
- 3) fertility.

At a national level, data presented here show how these parameters have changed over time. International comparisons then allow the most recent statistics for Ireland to be compared with those for other European countries. The indicators for Ireland were calculated using data from the NPRS for the period 2002 to 2011.² Analysis on single and multiple births and method of delivery for the period 2002 to 2011 are also presented.

TRENDS IN SELECTED STATISTICS

Table 2.1 presents trends in selected statistics and shows that;

- Total births increased from 60,865 births in 2002 to 74,377 births in 2011, a 22.2 per cent increase over the decade. The number of total births reported has decreased between 2010 and 2011 by 1.6 per cent.
- Mothers giving birth in Ireland in 2011 (31.7 years) were on average 1.3 years older than those who gave birth in 2002 (30.4 years) and just slightly older than those giving birth in 2010 (31.5 years).
- The percentage of total births to single mothers has increased from 30.0 to 33.3 per cent, representing an 11.0 per cent increase over the decade 2002 to 2011. Total births to single mothers increased by 0.9 per cent between 2010 and 2011.
- The average age of single mothers has increased from 25.7 years in 2002 to 28.3 years in 2011, a rate of increase of 10.1 per cent over the decade. There was a 1.1 per cent increase between 2010 and 2011.
- Average parity (number of previous live births and stillbirths) has decreased slightly from 1.1 to 1.0 over the period and is unchanged from 2010. Interval in years since last delivery has remained relatively stable and was 3.8 years in 2011, compared with 3.9 years in 2010.
- Immunity to rubella for mothers increased from 86.5 per cent in 2002 to 92.3 per cent in 2010 and was recorded at 94.3 per cent in 2011.
- The percentage of women recording any breastfeeding was 43.9 per cent in 2002. This rate has increased to 55.3 per cent in 2011 which represents an increase of 26.0 per cent in the proportion of women recording any breastfeeding over the decade. An increase of just 2.2 per cent is estimated for the period 2010 to 2011.
- The percentage of women exclusively breastfeeding has increased from 41.1 per cent in 2002 to 47.0 per cent in 2011. This represents an increase of 14.4 per cent in the proportion of women recording exclusive breastfeeding over the decade. This rate increased by 1.7 per cent between 2010 and 2011.

Previous reports in this series can be downloaded from www.esri.ie/health_information/nprs/nprs_reports/

Additional data relating to the birth episode show that:

- Mother's average length of stay was recorded at 4.1 days in 2002 and has decreased to 3.3 days in 2011 representing a decrease of 19.5 per cent over the decade. The decline since 2010 is estimated at 2.9 per cent.
- The number of women choosing combined antenatal care has increased by 4.3 per cent over the decade 2002 to 2011. There was, however, a slight decrease to 77.3 per cent in 2011 compared with 80.9 per cent in 2010.
- Booked admissions for 2011 are estimated at 99.3 per cent which is unchanged from 2010.

Method of delivery is reported by total live births and by total maternities.

- For total live births the percentage of spontaneous deliveries fell from 62.4 per cent in 2002 to 55.8 per cent in 2011. The upward trend in delivery by Caesarean section continues with a rate of 22.4 per cent reported in 2002 compared with 28.1 per cent for 2011. This represents an increase of 25.4 per cent in the proportion of Caesarean section deliveries for live births over the decade, and a 3.7 per cent increase between 2010 and 2011.
- For total maternities, the percentage of spontaneous deliveries fell from 63.0 per cent in 2002 to 56.6 per cent in 2011. The trend in delivery by Caesarean section has increased from 21.9 per cent in 2002 to 27.3 per cent in 2011, which represents an increase of 24.7 per cent in the proportion of Caesarean section deliveries for maternities over the decade, and a 3.8 per cent increase between 2010 and 2011.

Regarding infant's characteristics, trends have been largely consistent over the decade 2002 to 2011.

- The average birthweight for total live births was 3,467.0 grams in 2011 which is broadly consistent with the preceding decade and almost unchanged since 2010 (3,468.4 grams).
- While the average birthweight for singleton births of 3505.0 grams has remained consistent over the decade, slightly more variation is observed for multiple births, ranging from a high of 2,489.7 grams in 2002 to a low of 2,421.4 grams in 2007 and 2,464.6 grams in 2011.
- The percentage of total births recording low birthweight (<2,500 grams) was 4.9 per cent in 2002 compared with 5.2 per cent for 2011. This represents a 6.1 per cent increase in the proportion of low birthweight babies over the decade and a 2.0 per cent increase between 2010 and 2011.
- The percentage of total births classified as high birthweight (4,500 grams or more) has decreased from 2.9 per cent in 2002 to 2.6 per cent in 2011. In 2010, 2.7 per cent of total births classified as high birthweight.
- For total births, the infant's average length of stay declined from 3.9 days in 2002 to 3.2 days in 2011. This represents a 17.9 per cent decrease over the decade, with no change from 2010 reported.

TABLE 2.1Trends in Selected Statistics, 2002–2011

| | | | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | % Change | |
|--|-----------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-----------|
| | | | | | | | | | | | | | 2002-2011 | 2010-2011 |
| Total Births | | N | 60,865 | 61,989 | 62,406 | 61,786 | 65,810 | 71,963 | 75,587 | 76,023 | 75,600 | 74,377 | 22.2 | -1.6 |
| Birth Rate ¹ | Per 1,000 | population | 15.5 | 15.5 | 15.3 | 14.9 | 15.5 | 16.4 | 16.8 | 16.7 | 16.5 | 16.2 | 4.5 | -1.8 |
| Maternal Characteristics | | | | | | | | | | | | | | |
| Age of mother (years) ² | | Avg | 30.4 | 30.6 | 30.8 | 31.0 | 31.0 | 31.1 | 31.1 | 31.3 | 31.5 | 31.7 | 4.3 | 0.6 |
| Age of single mother (years) ^{2,3} | | Avg | 25.7 | 26.1 | 26.4 | 26.6 | 26.8 | 27.1 | 27.3 | 27.5 | 28.0 | 28.3 | 10.1 | 1.1 |
| Single mothers ^{2,3} | | % | 30.0 | 30.2 | 30.6 | 30.7 | 31.5 | 31.8 | 32.4 | 32.4 | 33.0 | 33.3 | 11.0 | 0.9 |
| Maternal parity ² | | Avg | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | -9.1 | 0.0 |
| Number of previous stillbirths per 1,00 | 00 maternities ² | Avg | 12.6 | 12.6 | 12.6 | 12.8 | 10.6 | 10.8 | 10.9 | 11.7 | 11.5 | 11.9 | -5.6 | 3.5 |
| Gestational age at delivery (weeks) ² | | Avg | 39.5 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.3 | -0.5 | -0.3 |
| Interval since last birth (years) ⁴ | | Avg | 3.9 | 3.8 | 3.7 | 3.8 | 3.8 | 3.9 | 3.9 | 3.8 | 3.9 | 3.8 | -2.6 | -2.6 |
| Immunity to rubella ² | | % | 86.5 | 87.3 | 90.5 | 90.3 | 92.2 | 92.4 | 90.0 | 90.5 | 92.3 | 94.3 | 9.0 | 2.2 |
| Any breastfeeding ^{1,2,5,6} | | % | 43.9 | 44.8 | 45.7 | 47.7 | 48.9 | 50.7 | 51.2 | 52.8 | 54.1 | 55.3 | 26.0 | 2.2 |
| Exclusive breastfeeding 1,2,5 | | % | 41.1 | 41.3 | 42.5 | 44.1 | 44.5 | 45.2 | 44.7 | 45.5 | 46.2 | 47.0 | 14.4 | 1.7 |
| Mother's length of stay (days) ^{1,2,7} | | Avg | 4.1 | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.5 | 3.4 | 3.3 | -19.5 | -2.9 |
| Perinatal Care | | J | | | | | | | | | | | | |
| Hospital & G.P. combined antenatal ca | are ² | % | 74.1 | 75.9 | 77.3 | 77.5 | 79.0 | 77.5 | 79.4 | 80.8 | 80.9 | 77.3 | 4.3 | -4.4 |
| Booked hospital admissions ^{2,7} | | % | 97.7 | 97.6 | 98.4 | 98.5 | 99.0 | 99.1 | 98.9 | 99.0 | 99.3 | 99.3 | 1.6 | 0.0 |
| | Spontaneous | % | 62.4 | 61.2 | 59.6 | 59.0 | 58.8 | 57.3 | 56.6 | 56.4 | 56.5 | 55.8 | -10.6 | -1.2 |
| Method of delivery ⁸ | Caesarean section | % | 22.4 | 24.2 | 25.2 | 25.9 | 25.4 | 26.2 | 26.7 | 26.9 | 27.1 | 28.1 | 25.4 | 3.7 |
| Total live births ⁹ | Forceps ¹⁰ | % | 3.2 | 2.9 | 2.5 | 2.8 | 3.0 | 3.7 | 3.7 | 4.1 | 4.0 | 4.1 | 28.1 | 2.5 |
| | Spontaneous | % | 63.0 | 61.9 | 60.2 | 59.7 | 59.4 | 58.0 | 57.4 | 57.0 | 57.2 | 56.6 | -10.2 | -1.0 |
| Method of delivery ⁸ | Caesarean section | % | 21.9 | 23.6 | 24.6 | 25.3 | 24.8 | 25.5 | 25.9 | 26.2 | 26.3 | 27.3 | 24.7 | 3.8 |
| Total maternities | Forceps ¹⁰ | % | 3.2 | 2.9 | 2.5 | 2.8 | 3.0 | 3.7 | 3.7 | 4.1 | 4.0 | 4.1 | 28.1 | 2.5 |
| Infant Characteristics | | | | | | | | | | | | | | |
| Dirthuraight (grams) ¹ | Total births | Avg | 3474.1 | 3471.1 | 3476.6 | 3472.0 | 3473.0 | 3465.4 | 3464.0 | 3466.1 | 3468.4 | 3467.0 | -0.2 | 0.0 |
| Birthweight (grams) ¹ | Singleton births | Avg | 3503.7 | 3500.6 | 3508.0 | 3503.2 | 3503.9 | 3499.3 | 3501.9 | 3498.9 | 3504.0 | 3505.0 | 0.0 | 0.0 |
| | Multiple births | Avg | 2489.7 | 2487.1 | 2471.2 | 2469.2 | 2464.8 | 2421.4 | 2424.5 | 2465.2 | 2447.2 | 2464.6 | -1.0 | 0.7 |
| | Total births | % | 4.9 | 5.1 | 5.0 | 5.0 | 5.0 | 5.3 | 5.3 | 5.0 | 5.1 | 5.2 | 6.1 | 2.0 |
| Low birthweight | Singleton births | % | 3.8 | 3.9 | 3.7 | 3.8 | 3.7 | 3.8 | 3.8 | 3.7 | 3.6 | 3.6 | -5.3 | 0.0 |
| (<2500 grams) ¹ | Multiple births | % | 44.2 | 45.1 | 45.6 | 45.6 | 46.4 | 50.4 | 48.4 | 45.4 | 47.6 | 46.0 | 4.1 | -3.4 |
| High birthweight (≥4500 grams)¹ | Total births | % | 2.9 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 | 2.7 | 2.7 | 2.7 | 2.6 | -10.3 | -3.7 |
| | Total births | Avg | 3.9 | 3.8 | 3.8 | 3.7 | 3.7 | 3.5 | 3.4 | 3.3 | 3.2 | 3.2 | -17.9 | 0.0 |
| Infant's length of stay (days) ^{1,5,7} | Singleton births | Avg | 3.7 | 3.6 | 3.6 | 3.5 | 3.5 | 3.3 | 3.1 | 3.1 | 3.0 | 3.0 | -18.9 | 0.0 |
| 2 | Multiple births | Avg | 10.2 | 10.1 | 10.6 | 10.1 | 9.9 | 10.0 | 9.9 | 9.0 | 9.5 | 8.6 | -15.7 | -9.5 |
| Post-mortems for early neonatal deat | • | % | 42.1 | 41.7 | 38.2 | 24.4 | 26.9 | 30.8 | 29.7 | 34.0 | 34.4 | 25.9 | -38.5 | -24.7 |

Notes:

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

¹ Based on live births. ² Based on maternities. ³ Data recording marital status as 'never married' are classified as 'single' in this report. ⁴ Based on multiparous maternities. ⁵ Excludes early neonatal deaths. ⁶ Any breastfeeding includes type of feeding recorded as either breast or combined. ⁷ Excludes domiciliary births. ⁸ See also Section 4 'Method of Delivery for Primiparous and Multiparous Women'. ⁹ These figures were based on total live births, as each infant in a multiple pregnancy can have a different method of delivery. ¹⁰ Excludes breech deliveries.

PERINATAL MORTALITY

Despite improvements in reducing perinatal mortality in recent decades, the perinatal period continues to be a time of relatively high risk.³ Stillbirths account for 66.0 per cent of perinatal deaths in 2011.^{4,5} Table 2.2 presents the numbers and rates for total births and perinatal deaths for Ireland from 2002 to 2011.

- In 2011 approximately 1 in every 250 births was stillborn and 1 in every 484 live births died in the first week of life.
- The perinatal mortality rate has fallen from 8.4 per 1,000 live births and stillbirths in 2002 to 6.1 per 1,000 in 2011. This represents a 27.4 per cent decrease over the decade, and a 10.3 per cent decrease since 2010 (see Figure 2.1).

TABLE 2.2 Live Births, Stillbirths, Early Neonatal Deaths, and Perinatal Deaths, 2002–2011

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | % Cha | ange |
|---------------------------------|--------|---------------------------------------|--------|--------|--------------|-------------|--------|--------|--------|--------|-------|---------------|
| | | Number of Births and Perinatal Deaths | | | | | | | | | | 2010- 2011 |
| Total Births | 60,865 | 61,989 | 62,406 | 61,786 | 65,810 | 71,963 | 75,587 | 76,023 | 75,600 | 74,377 | 22.2 | -1.6 |
| Live Births | 60,522 | 61,632 | 62,067 | 61,480 | 65,502 | 71,570 | 75,229 | 75,651 | 75,245 | 74,080 | 22.4 | -1.5 |
| Stillbirths | 343 | 357 | 339 | 306 | 308 | 393 | 358 | 372 | 355 | 297 | -13.4 | -16.3 |
| Early Neonatal Deaths | 170 | 177 | 168 | 139 | 152 | 132 | 159 | 155 | 161 | 153 | -10.0 | -5.0 |
| Perinatal Deaths | 513 | 534 | 507 | 445 | 460 | 525 | 517 | 527 | 516 | 450 | -12.3 | -12.8 |
| Adjusted Perinatal Deaths | 396 | 384 | 382 | 330 | 345 | 383 | 384 | 381 | 368 | 308 | -22.2 | -16.3 |
| | | | | Rate | es (per 1,00 | 00 births)* | | | | | | |
| Stillbirth | 5.6 | 5.8 | 5.4 | 5.0 | 4.7 | 5.5 | 4.7 | 4.9 | 4.7 | 4.0 | -28.6 | -14.9 |
| Early Neonatal Death | 2.8 | 2.9 | 2.7 | 2.3 | 2.3 | 1.8 | 2.1 | 2.0 | 2.1 | 2.1 | -25.0 | 0.0 |
| Perinatal Mortality | 8.4 | 8.6 | 8.1 | 7.2 | 7.0 | 7.3 | 6.8 | 6.9 | 6.8 | 6.1 | -27.4 | -10.3 |
| Adjusted Perinatal Mortality | 6.5 | 6.2 | 6.1 | 5.4 | 5.3 | 5.3 | 5.1 | 5.0 | 4.9 | 4.1 | -36.9 | -16.3 |

Notes:

For numbers and rates by singleton and multiple births see Section Two 'Singleton and Multiple Births'.

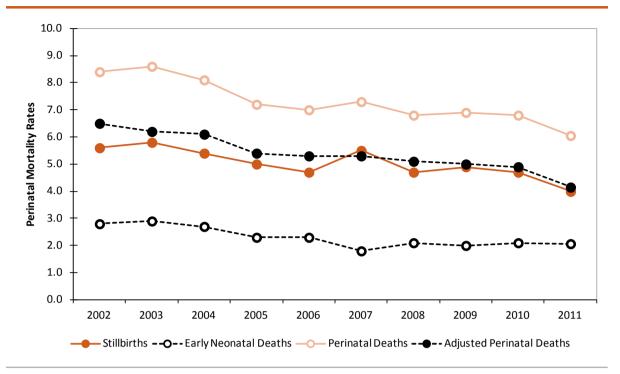
For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

EURO-PERISTAT Project, with SCPE, EUROCAT, EURONEOSTAT. European Perinatal Health Report, 2008. www.europeristat.com

Details on rate calculations are in Appendix A.

Section 5 of this report focuses on perinatal outcomes in more detail, examining perinatal deaths by birthweight and gestational age, with particular focus on cause of death.

FIGURE 2.1
Stillbirth, Early Neonatal and Perinatal Mortality Rates, Ireland, 2002–2011



Note: See Table 2.2 for data.

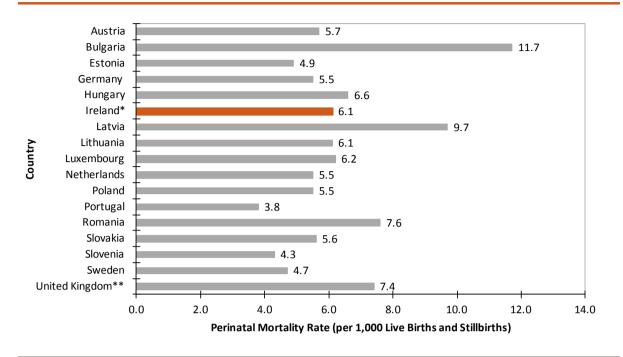
Using available data, a European comparison⁶ of perinatal mortality rates in Figure 2.2 shows that for the countries included;

- Bulgaria recorded the highest perinatal mortality rate for 2011, at 11.7 per 1,000 live births and stillbirths.
- Portugal had the lowest perinatal mortality rate recording 3.8 per 1,000 live births and stillbirths.
- At 6.1 per 1,000 live births and stillbirths, the perinatal mortality rate for Ireland ranked 10th lowest out of the 16 EU27 countries for which 2011 data were available.

⁶ 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted December 2012. http://epp.eurostat.ec.europa.eu

When countries are compared, it should be remembered that rates are affected by many factors, such as national policies on abortion, screening for congenital anomalies, availability of services related to fertility treatment, differences in the comprehensiveness and accuracy of registration and notification systems, and variations in definitions employed (in particular, for stillbirth).

FIGURE 2.2 Perinatal Mortality Rates for Selected EU Countries, 2011



'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted December 2012. Sources: http://epp.eurostat.ec.europa.eu

BIRTH RATES⁷

The birth rate is based on the total number of live births per 1,000 population.⁸ Figure 2.3 presents trends in birth rates for selected EU countries and total live births for Ireland over the decade 2002 to 2011. Figure 2.4 presents birth rates in the 27 EU countries in 2011.

- Of the countries reviewed, Ireland has consistently had the highest birth rate over the period, increasing from 15.5 per 1000 population in 2002 to 16.2 per 1,000 population in 2011.9
- The birth rate for Ireland has declined from a high of 16.8 per 1,000 population in 2008 to 16.5 per 1,000 in 2010 and 16.2 per 1,000 in 2011.
- After Ireland, the countries with the next highest birth rates are the United Kingdom and France (12.9 and 12.7 respectively) followed by Belgium and Sweden (11.9 and 11.8 respectively). In 2011, Germany (8.1) had the lowest birth rate with Hungary (8.8) next in line (see Figure 2.4).

Yearly Summary 2011, July 2012. CSO 2011 data are provisional and are based on the number of births registered within the year as opposed to births occurring in the year.

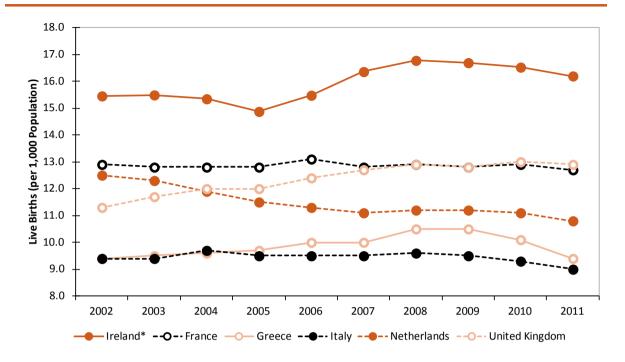
^{*} National Figure compiled by NPRS. See Table 2.2 for data.

^{**} Perinatal Mortality Rate for UK is based on 2010 data.

It should be noted that the crude birth rate could rise or fall depending on the numbers of women in the age cohorts from 15 to 49 years old. Changes in the crude birth rate often mask underlying trends in fertility.

The population estimates used in the denominator of the birth rate were calculated by the CSO Statistical Databases, date consulted December 2012. www.cso.ie/px/pxeirestat/Statire/SelectVarVal/Define.asp?maintable=PEA01&PLanguage=0 The CSO estimates the Irish birth rate at 16.3 per 1,000 of the population for 2011. See Vital Statistics, Fourth Quarter and

FIGURE 2.3
Trends in Birth Rates for Selected EU Countries, 2002–2011

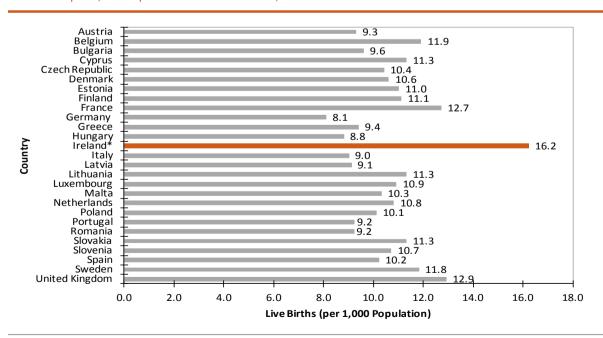


Sources: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted December 2012. http://epp.eurostat.ec.europa.eu

*Data for Ireland are based on NPRS data on live births from 2002 onwards. Population estimates were obtained from the CSO Statistical Databases, date consulted December 2012.Population estimates for 2011 were obtained from *Census 2011*. www.cso.ie/px/pxeirestat/Statire/SelectVarVal/Define.asp?maintable=PEA01&PLanguage=0

As these estimates are based on the revised population estimates published by the Central Statistics Office, based on *Census 2011* results, the birth rates for the period 2007-2010 previously reported have been adjusted accordingly.

FIGURE 2.4
Birth Rates per 1,000 Population for EU Countries, 2011



Sources: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted December 2012. http://epp.eurostat.ec.europa.eu

^{*} Data for Ireland are based on NPRS data on live births. Population estimates for 2011 were obtained from *Census 2011*. CSO Statistical Databases, date consulted December 2012.

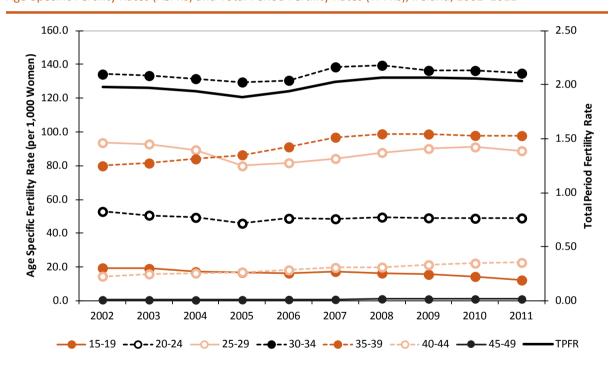
www.cso.ie/px/pxeirestat/Statire/SelectVarVal/Define.asp?maintable=PEA01&PLanguage=0

FERTILITY

The Total Period Fertility Rate (TPFR) for a given year indicates the number of children a woman could expect to have if the Age-Specific Fertility Rates (ASFR) for that year applied throughout her fertile vears.¹⁰ The ASFR refers to the number of live births to women in a particular age group per 1,000 women. Figure 2.5 displays the trend in the TPFR in Ireland from 2002 to 2011.

- The Irish TPFR has increased overall from an average of 1.98 in 2002 to 2.03 in 2011. 11
- The ASFRs show women aged 35 to 39 recorded an annual increase in fertility between 2002 and 2008 and reported a slight decrease between 2009 and 2011.
- Whilst women in the younger age groups (20 to 24 years) recorded decreasing rates up to 2005, these rates have shown a more consistent trend in recent years.
- In all years the 30 to 34 year age group recorded the highest ASFR.
- The ASFR for the 40 to 44 year age group was higher than that reported for the 15 to 19 year age group in 2011, a trend observed in greater proportions since 2005.

FIGURE 2.5 Age-Specific Fertility Rates (ASFRs) and Total Period Fertility Rates (TPFRs), Ireland, 2002-2011



Total period fertility rates (TPFRs) and age-specific fertility rates (ASFRs) are calculated using NPRS data from 2002 onwards. Sources: Female population estimates from 2002 onwards were obtained from the CSO Statistical Databases, date consulted December 2012. Female population estimates for 2011 were obtained from Census 2011. www.cso.ie/px/pxeirestat/Statire/SelectVarVal/Define.asp?maintable=PEA01&PLanguage=0 As these estimates are based on the revised population estimates published by the Central Statistics Office, based on Census 2011 results, the TPFRs and ASFRs for the period 2007-2010 previously reported have been adjusted accordingly.

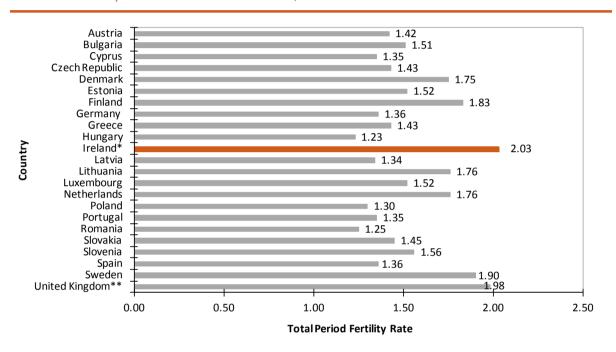
See Appendix A, definitions for calculation of TPFR and ASFR.

The CSO estimates the TPFR at 2.04 for 2011. See Vital Statistics, Fourth Quarter and Yearly Summary 2011, July 2012. CSO 2011 data are provisional and are based on the number of births registered within the year as opposed to births occurring in the year.

The TPFR for Ireland is based on population data for 2011¹², and at 2.03 is below the level required for the long-term replacement of the population in the absence of any net inward migration (2.10). Figure 2.6 presents data on TPFRs for 2011 using data from Eurostat and the NPRS.

- Ireland had the highest TPFR in the 22 EU countries for which 2011 data were available.
- Sweden and Finland were just behind Ireland with a TPFR of 1.90 and 1.83 respectively, while Hungary (1.23) and Romania (1.25) recorded the lowest TPFR in 2011.

FIGURE 2.6
Total Period Fertility Rates for Selected EU Countries, 2011



Sources: 'Population and Social Conditions', Eurostat, Data Navigation Tree, date consulted December 2012. http://epp.eurostat.ec.europa.eu

www.cso.ie/px/pxeirestat/Statire/SelectVarVal/Define.asp?maintable=PEA01&PLanguage=0

SINGLETON AND MULTIPLE BIRTHS

Table 2.3 shows the numbers of singleton and multiple births each year for the period 2002 to 2011.

- There were 71,651 singleton births, 2,638 twin births, 84 triplet births and 4 quadruplet births in 2011.¹³
- The twinning rate was 18.1 per 1,000 maternities in 2011, this represents an increase of 25.7 per cent over the decade.

^{*} Data for Ireland are based on NPRS data on live births. Female population estimates for 2011 were obtained from *Census 2011*. CSO Statistical Databases, date consulted December 2012.

^{**} Total Period Fertility Rate for UK is based on 2010 data.

Census 2011. Central Statistics Office, date consulted December 2012. www.cso.ie/px/pxeirestat/Statire/SelectVarVal/Define.asp?maintable=PEA01&PLanguage=0

In accordance with the World Health Organization (WHO) guidelines, only births weighing 500 grams or more are included in any analysis of NPRS data. In 2011, there were 71,703 singleton births, 2,655 twin births, 87 triplets and 4 quadruplets reported to the NPRS; of these 72 births weighed less than 500 grams (including 52 singleton births and 20 multiple births) and so were excluded from the analysis.

TABLE 2.3 Singleton and Multiple Births, 2002-2011

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | % Ch | ange |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|---------------|
| | | | | | | | | | | | 2002- 2011 | 2010- 2011 |
| Singleton births | 59,071 | 60,164 | 60,499 | 59,902 | 63,839 | 69,692 | 72,916 | 73,603 | 73,046 | 71,651 | 21.3 | -1.9 |
| Twin births | 1,728 | 1,747 | 1,849 | 1,833 | 1,916 | 2,185 | 2,575 | 2,377 | 2,480 | 2,638 | 52.7 | 6.4 |
| Triplet births | 54 | 78 | 54 | 47 | 51 | 83 | 92 | 39 | 74 | 84 | 55.6 | 13.5 |
| Quadruplet births | 12 | 0 | 4 | 4 | 4 | 3 | 4 | 4 | 0 | 4 | -66.7 | - |
| Twinning rate (per 1,000 maternities) | 14.4 | 14.3 | 15.0 | 15.1 | 14.8 | 15.4 | 17.3 | 15.9 | 16.7 | 18.1 | 25.7 | 8.4 |

Notes: See Appendix A for details on calculation of twinning rate.

This table includes live births and stillbirths.

Note:

The numbers and rates of stillbirths and early neonatal deaths for singleton and multiple births between 2002 and 2011 is presented in Table 2.4.

- Higher mortality rates were observed for multiple births when compared to singleton births.
- The stillbirth mortality rate for singleton births has decreased over the decade from 5.4 in 2002 to 4.4 in 2006, to the 2011 rate of 3.9 per 1,000 live births and stillbirths.
- The early neonatal mortality rate for singleton births decreased to 1.8 per 1,000 live births in 2011 compared to a rate of 2.5 per 1,000 live births in 2002.

TABLE 2.4 Live Births, Stillbirths and Early Neonatal Deaths, Numbers and Rates, Singleton and Multiple Births, 2002–2011

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | % Cha | nge |
|--------------------------|--------|--------|--------|--------|-------------|-------------|------------|--------|--------|--------|---------------|---------------|
| | | | | Number | of Births a | and Perina | tal Deaths | | | | 2002- 2011 | 2010- 2011 |
| Total Births | 60,865 | 61,989 | 62,406 | 61,786 | 65,810 | 71,963 | 75,587 | 76,023 | 75,600 | 74,377 | 22.2 | -1.6 |
| Singleton | 59,071 | 60,164 | 60,499 | 59,902 | 63,839 | 69,692 | 72,916 | 73,603 | 73,046 | 71,651 | 21.3 | -1.9 |
| Multiple | 1,794 | 1,825 | 1,907 | 1,884 | 1,971 | 2,271 | 2,671 | 2,420 | 2,554 | 2,726 | 52.0 | 6.7 |
| Live Births | 60,522 | 61,632 | 62,067 | 61,480 | 65,502 | 71,570 | 75,229 | 75,651 | 75,245 | 74,080 | 22.4 | -1.5 |
| Singleton | 58,752 | 59,837 | 60,186 | 59,621 | 63,555 | 69,318 | 72,582 | 75,247 | 72,709 | 71,375 | 21.5 | -1.8 |
| Multiple | 1,770 | 1,795 | 1,881 | 1,859 | 1,947 | 2,252 | 2,647 | 2,404 | 2,536 | 2,705 | 52.8 | 6.7 |
| Stillbirths | 343 | 357 | 339 | 306 | 308 | 393 | 358 | 372 | 355 | 297 | -13.4 | -16.3 |
| Singleton | 319 | 327 | 313 | 281 | 284 | 374 | 334 | 356 | 337 | 276 | -13.5 | -18.1 |
| Multiple | 24 | 30 | 26 | 25 | 24 | 19 | 24 | 16 | 18 | 21 | -12.5 | 16.7 |
| Early Neonatal Deaths | 170 | 177 | 168 | 139 | 152 | 132 | 159 | 155 | 161 | 153 | -10.0 | -5.0 |
| Singleton | 149 | 156 | 140 | 109 | 129 | 118 | 138 | 142 | 135 | 126 | -15.4 | -6.7 |
| Multiple | 21 | 21 | 28 | 30 | 23 | 14 | 21 | 13 | 26 | 27 | 28.6 | 3.8 |
| | | | | | Rates (| per 1,000 l | oirths)* | | | | | |
| Stillbirths | 5.6 | 5.8 | 5.4 | 5.0 | 4.7 | 5.5 | 4.7 | 4.9 | 4.7 | 4.0 | -28.6 | -14.9 |
| Singleton | 5.4 | 5.4 | 5.2 | 4.7 | 4.4 | 5.4 | 4.6 | 4.8 | 4.6 | 3.9 | -27.8 | -15.2 |
| Multiple | 13.4 | 16.4 | 13.6 | 13.3 | 12.2 | 8.4 | 9.0 | 6.6 | 7.0 | 7.7 | -42.5 | 10.0 |
| Early Neonatal Deaths | 2.8 | 2.9 | 2.7 | 2.3 | 2.3 | 1.8 | 2.1 | 2.0 | 2.1 | 2.1 | -25.0 | 0.0 |
| Singleton | 2.5 | 2.6 | 2.3 | 1.8 | 2.0 | 1.7 | 1.9 | 1.9 | 1.9 | 1.8 | -28.0 | -5.3 |
| Multiple | 11.9 | 11.7 | 14.9 | 16.1 | 11.8 | 6.2 | 7.9 | 5.4 | 10.3 | 10.0 | -16.0 | -2.9 |

For stillbirths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

METHOD OF DELIVERY FOR PRIMIPAROUS¹⁴ AND MULTIPAROUS¹⁵ WOMEN

Table 2.5 outlines trends in the method of delivery for primiparous and multiparous women over the decade 2002 to 2011.

- Delivery by Caesarean section has increased for total maternities from 21.9 per cent in 2002 to 27.3 per cent in 2011.
- 28.6 per cent of primiparous women delivered by Caesarean section in 2011 compared to 23.8 per cent in 2002, with the rate of increase for Caesarean section delivery higher for multiparous women, increasing from 20.6 per cent in 2002 to 26.4 per cent in 2011 (see Figure 2.7).
- Spontaneous deliveries have fallen for total maternities from 63.0 per cent in 2002 to 56.6 per cent in 2011 with the rate of decrease higher for primiparous than multiparous women.

TABLE 2.5Percentage Distribution of Maternities by Method of Delivery, Primiparous and Multiparous Women, 2002–2011

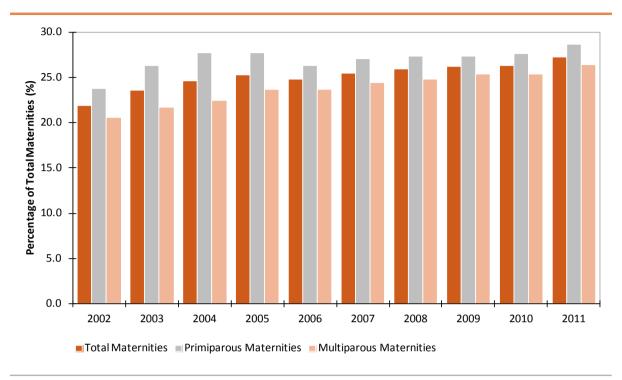
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | % Ch | ange |
|----------------------------|------|------|------|------|------|------|------|------|------|------|---------------|---------------|
| | | | | | | | | | | | 2002– 2011 | 2010- 2011 |
| Total Maternities | | | | | | | | | | | | |
| Spontaneous | 63.0 | 61.9 | 60.2 | 59.7 | 59.4 | 58.0 | 57.4 | 57.0 | 57.2 | 56.6 | -10.2 | -1.0 |
| Breech/forceps | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.0 | -20.0 |
| Forceps | 3.2 | 2.9 | 2.5 | 2.8 | 3.0 | 3.7 | 3.7 | 4.1 | 4.0 | 4.1 | 28.1 | 2.5 |
| Vacuum extraction | 11.2 | 11.0 | 12.0 | 11.7 | 12.2 | 12.2 | 12.6 | 12.2 | 11.9 | 11.5 | 2.7 | -3.4 |
| Caesarean section | 21.9 | 23.6 | 24.6 | 25.3 | 24.8 | 25.5 | 25.9 | 26.2 | 26.3 | 27.3 | 24.7 | 3.8 |
| Other specified & combined | 0.3 | 0.2 | 0.3 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.0 | 0.0 | -100.0 | 0.0 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| Primiparous | | | | | | | | | | | | |
| Spontaneous | 49.6 | 47.8 | 45.4 | 45.0 | 45.6 | 44.1 | 43.5 | 42.7 | 42.7 | 41.2 | -16.9 | -3.5 |
| Breech/forceps | 0.5 | 0.6 | 0.5 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.7 | 0.6 | 20.0 | -14.3 |
| Forceps | 6.2 | 5.7 | 5.1 | 5.6 | 5.8 | 7.2 | 7.2 | 8.2 | 8.0 | 8.6 | 38.7 | 7.5 |
| Vacuum extraction | 19.5 | 19.4 | 21.2 | 21.0 | 21.5 | 21.0 | 21.4 | 21.2 | 21.0 | 21.0 | 7.7 | 0.0 |
| Caesarean section | 23.8 | 26.3 | 27.7 | 27.7 | 26.3 | 27.1 | 27.3 | 27.3 | 27.6 | 28.6 | 20.2 | 3.6 |
| Other specified & combined | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -100.0 | 0.0 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| Multiparous | | | | | | | | | | | | |
| Spontaneous | 72.2 | 71.5 | 70.1 | 69.5 | 69.1 | 68.0 | 67.6 | 67.4 | 67.5 | 66.8 | -7.5 | -1.0 |
| Breech/forceps | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.0 | -25.0 |
| Forceps | 1.1 | 1.0 | 0.8 | 0.9 | 1.0 | 1.2 | 1.1 | 1.1 | 1.2 | 1.1 | 0.0 | -8.3 |
| Vacuum extraction | 5.5 | 5.3 | 5.9 | 5.5 | 5.7 | 5.8 | 6.0 | 5.7 | 5.4 | 5.2 | -5.5 | -3.7 |
| Caesarean section | 20.6 | 21.7 | 22.5 | 23.7 | 23.7 | 24.4 | 24.8 | 25.4 | 25.4 | 26.4 | 28.2 | 3.9 |
| Other specified & combined | 0.3 | 0.2 | 0.4 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | -66.7 | 0.0 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |

Note: Maternities with 'not stated' parity were excluded from the table.

Women who have had no previous pregnancy resulting in a live birth or stillbirth.

Women who have had at least one previous pregnancy resulting in a live birth or stillbirth.

FIGURE 2.7 Percentage Distribution of Maternities Delivering by Caesarean Section for Total, Primiparous and Multiparous Women, 2002-2011



Note: See Table 2.5 for data

SECTION THREE

GENERAL CHARACTERISTICS

INTRODUCTION

This section presents more detailed analyses of data reported to the NPRS for 2011 and some longitudinal comparisons. ¹⁶ Unless otherwise stated the data presented in tables and figures in Section Three are based on data reported to the NPRS for 2011.

Data for a selection of variables are presented including:

- mother's age, marital status, occupation, nationality, parity, number of previous stillbirths, and interval since last birth;
- father's occupation and nationality; and
- infant's birthweight, gestational age, and month of birth.

For selected variables, the tables outline data for live births, stillbirths and early neonatal deaths, together with their corresponding rates, as well as presenting the number of maternities.

MATERNAL AGE

Table 3.1 presents data on maternal age. 17

• In 2011, over 36 per cent of total births were to mothers aged 30 to 34 years, representing just over one third of all mothers having either a singleton or multiple birth.

TABLE 3.1 Age of Mother: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

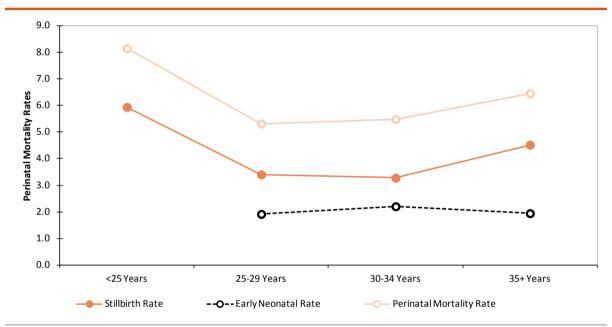
| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|---------------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Under 15 Years | 8 | 0.0 | 8 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 8 |
| 15-19 Years | 1,692 | 2.3 | 1,684 | 8 | 4.7 | 5 | 3.0 | 7.7 | 5.3 | 1,681 |
| 20-24 Years | 7,393 | 9.9 | 7,347 | 46 | 6.2 | 15 | 2.0 | 8.3 | 5.8 | 7,346 |
| 25-29 Years | 16,747 | 22.5 | 16,690 | 57 | 3.4 | 32 | 1.9 | 5.3 | 3.9 | 16,522 |
| 30-34 Years | 26,846 | 36.1 | 26,758 | 88 | 3.3 | 59 | 2.2 | 5.5 | 3.7 | 26,346 |
| 35-39 Years | 17,795 | 23.9 | 17,725 | 70 | 3.9 | 25 | 1.4 | 5.3 | 3.7 | 17,352 |
| 40-44 Years | 3,728 | 5.0 | 3,703 | 25 | 6.7 | 15 | 4.1 | 10.7 | 6.2 | 3,606 |
| 45 Years and Over | 167 | 0.2 | 164 | 3 | 18.0 | 2 | 12.2 | 29.9 | 18.2 | 146 |
| Not Stated | 1 | 0.0 | 1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births Under 15 Years | 8 | 0.0 | 8 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 8 |
| | | | | | | - | | | | |
| 15-19 Years | 1,670 | 2.3 | 1,662 | 8 | 4.8 | 5 | 3.0 | 7.8 | 5.4 | 1,670 |
| 20-24 Years | 7,296 | 10.2 | 7,251 | 45 | 6.2 | 14 | 1.9 | 8.1 | 5.6 | 7,296 |
| 25-29 Years | 16,296 | 22.7 | 16,247 | 49 | 3.0 | 28 | 1.7 | 4.7 | 3.4 | 16,296 |
| 30-34 Years | 25,850 | 36.1 | 25,765 | 85 | 3.3 | 43 | 1.7 | 5.0 | 3.4 | 25,850 |
| 35-39 Years | 16,918 | 23.6 | 16,855 | 63 | 3.7 | 20 | 1.2 | 4.9 | 3.4 | 16,918 |
| 40-44 Years | 3,486 | 4.9 | 3,463 | 23 | 6.6 | 15 | 4.3 | 10.9 | 6.3 | 3,486 |
| 45 Years and Over | 126 | 0.2 | 123 | 3 | 23.8 | 1 | 8.1 | 31.7 | 16.1 | 126 |
| Not Stated | 1 | 0.0 | 1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | | | | | | | | | |
| Under 15 Years | 0 | 0.0 | 0 | 0 | 0.0. | 0 | 0.0 | 0.0 | 0.0 | 0 |
| 15-19 Years | 22 | 0.8 | 22 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 11 |
| 20-24 Years | 97 | 3.6 | 96 | 1 | 10.3 | 1 | 10.4 | 20.6 | 20.6 | 50 |
| 25-29 Years | 451 | 16.5 | 443 | 8 | 17.7 | 4 | 9.0 | 26.6 | 22.3 | 226 |
| 30-34 Years | 996 | 36.5 | 993 | 3 | 3.0 | 16 | 16.1 | 19.1 | 10.1 | 496 |
| 35-39 Years | 877 | 32.2 | 870 | 7 | 8.0 | 5 | 5.7 | 13.7 | 10.3 | 434 |
| 40-44 Years | 242 | 8.9 | 240 | 2 | 8.3 | 0 | 0.0 | 8.3 | 4.1 | 120 |
| 45 Years and Over | 41 | 1.5 | 41 | 0 | 0.0 | 1 | 24.4 | 24.4 | 24.4 | 20 |
| Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and Note: stillbirths. For early neonatal deaths, rates are calculated on total live births.

Figure 3.1 presents perinatal mortality rates.

- The perinatal mortality rate is highest for mothers aged less than 25 years, with a rate of 8.1 per 1,000 live births and stillbirths, whilst the lowest perinatal mortality rate was recorded for the 25 to 29 year age group (5.3 per 1,000 live births and stillbirths).
- At 5.9 per 1,000 live births and stillbirths the highest stillbirth rate was recorded for mothers aged less than 25 years, whilst the lowest stillbirth rate was recorded for the 30 to 34 year age group (3.3 per 1,000 live births and stillbirths).
- At 2.2 per 1,000 live births the highest early neonatal rate was recorded for mothers aged 30 to 34 years.

FIGURE 3.1Age-Specific Stillbirth, Early Neonatal and Perinatal Mortality Rates, Total Births



Note: See Table 3.1 for data. Rates based on 20 or fewer observations are not included in this Figure.

MOTHER'S MARITAL STATUS

Table 3.2 presents data on mother's marital status.

- Close to two-thirds of births were to married women, and under one-third to single women. 18
- Approximately 72 per cent of multiple births were to married women.

TABLE 3.2 Mother's Marital Status: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|---------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Married | 48,492 | 65.2 | 48,319 | 173 | 3.6 | 100 | 2.1 | 5.6 | 3.6 | 47,510 |
| Single | 24,667 | 33.2 | 24,553 | 114 | 4.6 | 51 | 2.1 | 6.7 | 5.0 | 24,306 |
| Widowed | 91 | 0.1 | 91 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 90 |
| Separated | 656 | 0.9 | 650 | 6 | 9.1 | 0 | 0.0 | 9.1 | 9.1 | 647 |
| Divorced | 407 | 0.5 | 403 | 4 | 9.8 | 0 | 0.0 | 9.8 | 7.4 | 396 |
| Not Stated | 64 | 0.1 | 64 | 0 | 0.0 | 2 | 31.3 | 31.3 | 0.0 | 59 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Bir | ths | | | | | | | | | |
| Married | 46,538 | 65.0 | 46,379 | 159 | 3.4 | 78 | 1.7 | 5.1 | 3.3 | 46,538 |
| Single | 23,943 | 33.4 | 23,835 | 108 | 4.5 | 46 | 1.9 | 6.4 | 4.8 | 23,943 |
| Widowed | 89 | 0.1 | 89 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 89 |
| Separated | 641 | 0.9 | 635 | 6 | 9.4 | 0 | 0.0 | 9.4 | 9.4 | 641 |
| Divorced | 386 | 0.5 | 383 | 3 | 7.8 | 0 | 0.0 | 7.8 | 7.8 | 386 |
| Not Stated | 54 | 0.1 | 54 | 0 | 0.0 | 2 | 37.0 | 37.0 | 0.0 | 54 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Birt | hs | | | | | | | | | |
| Married | 1,954 | 71.7 | 1,940 | 14 | 7.2 | 22 | 11.3 | 18.4 | 12.9 | 972 |
| Single | 724 | 26.6 | 718 | 6 | 8.3 | 5 | 7.0 | 15.2 | 11.1 | 363 |
| Widowed | 2 | 0.1 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Separated | 15 | 0.6 | 15 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 6 |
| Divorced | 21 | 0.8 | 20 | 1 | 47.6 | 0 | 0.0 | 47.6 | 0.0 | 10 |
| Not Stated | 10 | 0.4 | 10 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 5 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

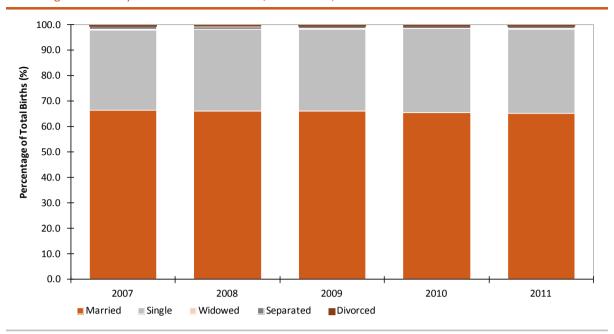
Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and Note: stillbirths. For early neonatal deaths, rates are calculated on total live births.

Figures 3.2 and 3.3 present data on mother's marital status.

- The distribution of total births by mother's marital status has remained fairly consistent between 2007 and 2011 (see Figure 3.2).
- Figure 3.3 presents the distribution of births to single mothers by county of residence. In Dublin City over 40.3 per cent of births were to single mothers, compared to 27.0 per cent in Mayo (See Appendix E for details of county of residence classification).

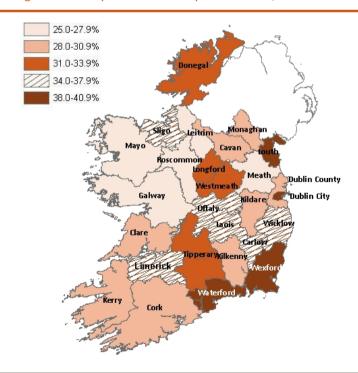
Data recording marital status as 'never married' are classified as 'single' in discussion in this report.

FIGURE 3.2
Percentage of Births by Mother's Marital Status, Total Births, 2007–2011



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

FIGURE 3.3Percentage of Births to Single Mothers by Mother's County of Residence, Total Births



Notes: See Appendix G, Table G2 for data. 'Not Stated' values are not included in the calculation of percentages. Example: Of all births to mothers resident in Carlow, 36.0 per cent were to single mothers.

OCCUPATION

MOTHER'S OCCUPATION

Table 3.3 presents data on mother's occupation.

- The highest proportions of total births were to mothers whose occupation was recorded as either 'intermediate non-manual workers' (20.9 per cent) or 'home duties' (20.7 per cent).
- Mothers classified as 'lower professional' accounted for 16.3 per cent of total births, while mothers in the 'other non-manual workers' category accounted for a further 13.6 per cent of total births.
- Where rates are calculated on more than 20 observations, the highest perinatal mortality rate of 10.9 per 1,000 live births and stillbirths was reported for 'unemployed' mothers.
- The lowest perinatal mortality rate was recorded for mothers with an occupation in the 'intermediate non-manual workers' category (4.4 per 1,000 live births and stillbirths), while a perinatal mortality rate of 5.0 per 1,000 live births and stillbirths was recorded for mothers in the 'lower professional' category (see Figure 3.4). 19

For further discussion and analysis on this issue see Layte, R., and Clyne, B., Did the Celtic Tiger Decrease Socio-Economic Differentials in Perinatal Mortality in Ireland?, The Economic and Social Review, Vol 41, No.2, June 2010.

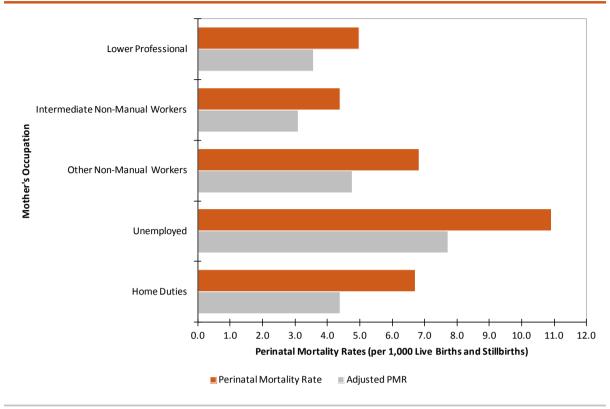
TABLE 3.3Mother's Occupation: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternitie |
|---|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|--------------|
| Total Births | | | | | | | nate | | | |
| Farmers & Farm | 62 | 0.1 | 62 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 6 |
| Managers | | | | | | | | | | |
| Other Agricultural | 69 | 0.1 | 69 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 6 |
| Occupations & Fishermen | | | | | | | | | | |
| Higher Professional | 5,018 | 6.7 | 5,000 | 18 | 3.6 | 10 | 2.0 | 5.6 | 3.2 | 4,90 |
| Lower Professional | 12,078 | 16.2 | 12,039 | 39 | 3.2 | 21 | 1.7 | 5.0 | 3.6 | 11,83 |
| Employers & Managers | 5,437 | 7.3 | 5,421 | 16 | 2.9 | 15 | 2.8 | 5.7 | 3.3 | 5,30 |
| Salaried Employees | 1,006 | 1.4 | 1,006 | 0 | 0.0 | 3 | 3.0 | 3.0 | 3.0 | 98 |
| Intermediate Non- | 15,481 | 20.8 | 15,435 | 46 | 3.0 | 22 | 1.4 | 4.4 | 3.1 | 15,18 |
| Manual Workers | | | | | | | | | | |
| Other Non-Manual | 10,107 | 13.6 | 10,056 | 51 | 5.0 | 18 | 1.8 | 6.8 | 4.8 | 9,95 |
| Workers | , | | , | | | | | | | -, |
| Skilled Manual Workers | 1,152 | 1.5 | 1,145 | 7 | 6.1 | 0 | 0.0 | 6.1 | 5.2 | 1,13 |
| Semi-Skilled Manual | 2,318 | 3.1 | 2,309 | 9 | 3.9 | 5 | 2.2 | 6.0 | 4.3 | 2,27 |
| Workers | 2,310 | 3.1 | 2,309 | 9 | 3.9 | 3 | 2.2 | 0.0 | 4.5 | 2,27 |
| Unskilled Manual | 9 | 0.0 | 9 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Workers | 2.440 | 4.0 | 2.000 | 20 | 0.0 | _ | 4.6 | 40.0 | | 2.00 |
| Unemployed | 3,118 | 4.2 | 3,089 | 29 | 9.3 | 5 | 1.6 | 10.9 | 7.7 | 3,08 |
| Not Classifiable | 2,890 | 3.9 | 2,870 | 20 | 6.9 | 8 | 2.8 | 9.7 | 7.3 | 2,85 |
| Home Duties | 15,316 | 20.6 | 15,258 | 58 | 3.8 | 45 | 2.9 | 6.7 | 4.4 | 15,05 |
| Not Stated | 316 | 0.4 | 312 | 4 | 12.7 | 1 | 3.2 | 15.8 | 12.7 | 31 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,00 |
| Singleton Births | | | | | | | | | | |
| Farmers & Farm Managers | 58 | 0.1 | 58 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 5 |
| Other Agricultural Occupations & Fishermen | 69 | 0.1 | 69 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 6 |
| Higher Professional | 4,784 | 6.7 | 4,769 | 15 | 3.1 | 7 | 1.5 | 4.6 | 2.7 | 4,78 |
| ower Professional | 11,593 | 16.2 | 11,557 | 36 | 3.1 | 16 | 1.4 | 4.5 | 3.1 | 11,59 |
| Employers & Managers | 5,167 | 7.2 | 5,153 | 14 | 2.7 | 11 | 2.1 | 4.8 | 2.9 | 5,16 |
| Salaried Employees | 965 | 1.3 | 965 | 0 | 0.0 | 3 | 3.1 | 3.1 | 3.1 | 96 |
| Intermediate Non- Manual Workers | 14,892 | 20.8 | 14,852 | 40 | 2.7 | 18 | 1.2 | 3.9 | 2.8 | 14,89 |
| Other Non-Manual | 9,796 | 13.7 | 9,748 | 48 | 4.9 | 16 | 1.6 | 6.5 | 4.8 | 9,79 |
| Workers | | | | _ | | | | | | |
| Skilled Manual Workers Semi-Skilled Manual | 1,106 2,237 | 1.5 3.1 | 1,099 2,228 | 7 9 | 6.3 4.0 | 0 4 | 0.0 1.8 | 6.3 5.8 | 5.4 4.0 | 1,10 2,23 |
| Workers Unskilled Manual | 9 | 0.0 | 9 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Workers | | | | | | | | | | |
| Unemployed | 3,047 | 4.3 | 3,020 | 27 | 8.9 | 5 | 1.7 | 10.5 | 7.2 | 3,04 |
| Not Classifiable | 2,817 | 3.9 | 2,797 | 20 | 7.1 | 8 | 2.9 | 9.9 | 7.5 | 2,81 |
| Home Duties | 14,801 | 20.7 | 14,745 | 56 | 3.8 | 37 | 2.5 | 6.3 | 3.9 | 14,80 |
| Not Stated | 310 | 0.4 | 306 | 4 | 12.9 | 1 | 3.3 | 16.1 | 12.9 | 3: |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,65 |
| Multiple Births | | | | | | | | | | |
| Farmers & Farm | 4 | 0.1 | 4 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Managers Other Agricultural | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Occupations & Fishermen | | | | | | | | | | 1. |
| Higher Professional | 234 | 8.6 | 231 | 3 | 12.8 | 3 | 13.0 | 25.6 | 13.0 | 11 |
| Lower Professional | 485 | 17.8 | 482 | 3 | 6.2 | 5 | 10.4 | 16.5 | 14.5 | 24 |
| Employers & Managers | 270 | 9.9 | 268 | 2 | 7.4 | 4 | 14.9 | 22.2 | 11.2 | 13 |
| Salaried Employees | 41 | 1.5 | 41 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | - 2 |
| ntermediate Non- Manual Workers | 589 | 21.6 | 583 | 6 | 10.2 | 4 | 6.9 | 17.0 | 11.9 | 2: |
| Other Non-Manual Workers | 311 | 11.4 | 308 | 3 | 9.6 | 2 | 6.5 | 16.1 | 3.3 | 1 |
| Skilled Manual Workers | 46 | 1.7 | 46 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| iemi-Skilled Manual Vorkers | 81 | 3.0 | 81 | 0 | 0.0 | 1 | 12.3 | 12.3 | 12.3 | • |
| Jnskilled Manual Workers | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Jnemployed | 71 | 2.6 | 69 | 2 | 28.2 | 0 | 0.0 | 28.2 | 28.2 | |
| DITETTIDIOVEU | | 2.6 | 73 | 0 | 0.0 | 0 | | | | 3 |
| | | | /3 | () | 0.0 | () | 0.0 | 0.0 | 0.0 | 3 |
| Not Classifiable | 73 | | | | | | | | | |
| | 515 6 | 18.9 0.2 | 513 6 | 2 | 3.9 0.0 | 8 | 15.6 0.0 | 19.4 0.0 | 17.5 0.0 | 2 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

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

FIGURE 3.4 Perinatal Mortality Rates by Mother's Occupation, Total Births



Note: See Table 3.3 for data. Rates based on 20 or fewer observations are not included in this Figure.

FATHER'S OCCUPATION

Father's details are only required for registration purposes where mother's marital status is recorded as 'married'. As a result, the proportion of records for which information is available is not complete and a category of 'not applicable' is required. This category is combined with 'not stated' for the purposes of presenting data on father's occupation in this report. With respect to availability and access to father's details, data quality measures are ongoing with hospital staff in an effort to improve completeness of returns for the details of all fathers.

Table 3.4 presents data on father's occupation.

- Excluding 'not stated/not applicable', over 25 per cent of all births were to fathers whose occupation was recorded as 'skilled manual workers'.
- Fathers recorded as 'other non-manual workers' accounted for 12.6 per cent of total births.
- Where rates are calculated on more than 20 observations, the occupations recording the highest perinatal mortality rates were 'unemployed' which recorded a perinatal mortality rate of 8.2 per 1,000 live births and stillbirths, and 'other non-manual workers' which recorded a perinatal mortality rate of 7.8 per 1,000 live births and stillbirths (see Figure 3.5).
- The lowest perinatal mortality rates were recorded for 'employers and managers' at 3.9 per 1,000 live births and stillbirths and 'higher professional' at 4.7 per 1,000 live births and stillbirths.

TABLE 3.4Father's Occupation: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality | Perinatal Mortality Rate* | Adjusted PMR* | Maternitie |
|---|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|--------------------------------|---------------------------------|------------------|------------|
| Total Births | | | | | | | Rate* | | | |
| Farmers & Farm Managers | 2,130 | 2.9 | 2,121 | 9 | 4.2 | 6 | 2.8 | 7.0 | 2.8 | 2,083 |
| Other Agricultural | 616 | 0.8 | 614 | 2 | 3.2 | 1 | 1.6 | 4.9 | 4.9 | 60 |
| Occupations & Fishermen | 010 | 0.8 | 014 | 2 | 3.2 | 1 | 1.0 | 4.3 | 4.9 | 00. |
| Higher Professional | 5,288 | 7.1 | 5,270 | 18 | 3.4 | 7 | 1.3 | 4.7 | 3.2 | 5,16 |
| Lower Professional | 4,266 | 5.7 | 4,252 | 14 | 3.4 | 12 | 2.8 | 6.1 | 4.2 | 4,189 |
| Employers & Managers | 5,412 | 7.3 | 5,401 | 11 | 2.0 | 10 | 1.9 | 3.9 | 2.8 | 5,29 |
| | 1,300 | 1.7 | 1,297 | 3 | 2.0 | 5 | 3.9 | 6.2 | 3.9 | 1,27 |
| Salaried Employees Intermediate Non-Manual | 6,354 | 8.5 | | 24 | 3.8 | 11 | 3.9 1.7 | 5.5 | 3.9 | |
| Workers | 0,334 | 8.5 | 6,330 | 24 | 3.8 | 11 | 1.7 | 5.5 | 3.2 | 6,21 |
| Other Non-Manual Workers | 7,168 | 9.6 | 7,133 | 35 | 4.9 | 21 | 2.9 | 7.8 | 5.6 | 7,03 |
| Skilled Manual Workers | 14,464 | 19.4 | 14,421 | 43 | 3.0 | 30 | 2.1 | 5.0 | 3.5 | 14,21 |
| Semi-Skilled Manual | 3,507 | 4.7 | 3,497 | 10 | 2.9 | 3 | 0.9 | 3.7 | 2.9 | 3,46 |
| Workers | | | | | | | | | | |
| Unskilled Manual Workers | 434 | 0.6 | 433 | 1 | 2.3 | 1 | 2.3 | 4.6 | 2.3 | 43 |
| Unemployed | 3,801 | 5.1 | 3,776 | 25 | 6.6 | 6 | 1.6 | 8.2 | 4.5 | 3,73 |
| Not Classifiable | 1,843 | 2.5 | 1,834 | 9 | 4.9 | 2 | 1.1 | 6.0 | 4.9 | 1,80 |
| Home Duties | 126 | 0.2 | 126 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 12 |
| Not Stated/Not Applicable | 17,668 | 23.8 | 17,575 | 93 | 5.3 | 38 | 2.2 | 7.4 | 5.4 | 17,37 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,00 |
| Singleton Births | | | | | | | | | | |
| Farmers & Farm Managers | 2,032 | 2.8 | 2,023 | 9 | 4.4 | 4 | 2.0 | 6.4 | 3.0 | 2,03 |
| Other Agricultural Occupations & Fishermen | 592 | 0.8 | 590 | 2 | 3.4 | 0 | 0.0 | 3.4 | 3.4 | 59 |
| Higher Professional | 5,043 | 7.0 | 5,029 | 14 | 2.8 | 7 | 1.4 | 4.2 | 3.2 | 5,04 |
| Lower Professional | 4,113 | 5.7 | 4,099 | 14 | 3.4 | 7 | 1.7 | 5.1 | 3.4 | 4,11 |
| Employers & Managers | 5,172 | 7.2 | 5,163 | 9 | 1.7 | 9 | 1.7 | 3.5 | 2.5 | 5,17 |
| Salaried Employees | 1,256 | 1.8 | 1,253 | 3 | 2.4 | 3 | 2.4 | 4.8 | 2.4 | 1,25 |
| Intermediate Non-Manual | 6,089 | 8.5 | 6,068 | 21 | 3.4 | 11 | 1.8 | 5.3 | 3.0 | 6,08 |
| Workers | | | | | | | | | | |
| Other Non-Manual Workers | 6,911 | 9.6 | 6,881 | 30 | 4.3 | 19 | 2.8 | 7.1 | 4.9 | 6,91 |
| Skilled Manual Workers | 13,960 | 19.5 | 13,918 | 42 | 3.0 | 23 | 1.7 | 4.7 | 3.3 | 13,96 |
| Semi-Skilled Manual | 3,419 | 4.8 | 3,409 | 10 | 2.9 | 2 | 0.6 | 3.5 | 2.6 | 3,41 |
| Workers | | | | | | | | | | |
| Unskilled Manual Workers | 426 | 0.6 | 425 | 1 | 2.3 | 0 | 0.0 | 2.3 | 2.3 | 42 |
| Unemployed | 3,674 | 5.1 | 3,650 | 24 | 6.5 | 6 | 1.6 | 8.2 | 4.4 | 3,67 |
| Not Classifiable | 1,763 | 2.5 | 1,754 | 9 | 5.1 | 2 | 1.1 | 6.2 | 5.1 | 1,76 |
| Home Duties | 124 | 0.2 | 124 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 12 |
| Not Stated/Not Applicable | 17,077 | 23.8 | 16,989 | 88 | 5.2 | 33 | 1.9 | 7.1 | 5.2 | 17,07 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,65 |
| Multiple Births | | | | | | | | | | |
| Farmers & Farm Managers | 98 | 3.6 | 98 | 0 | 0.0 | 2 | 20.4 | 20.4 | 0.0 | 4 |
| Other Agricultural | 24 | 0.9 | 24 | 0 | 0.0 | 1 | 41.7 | 41.7 | 41.7 | 1 |
| Occupations & Fishermen | 2-7 | 0.5 | | 3 | 0.0 | _ | 71.7 | 71./ | 71.7 | 1 |
| Higher Professional | 245 | 9.0 | 241 | 4 | 16.3 | 0 | 0.0 | 16.3 | 4.1 | 12 |
| Lower Professional | 153 | 5.6 | 153 | 0 | 0.0 | 5 | 32.7 | 32.7 | 26.3 | 7 |
| Employers & Managers | 240 | 8.8 | 238 | 2 | 8.3 | 1 | 4.2 | 12.5 | 8.4 | 11 |
| Salaried Employees | 44 | 1.6 | 44 | 0 | 0.0 | 2 | 45.5 | 45.5 | 45.5 | 2 |
| Intermediate Non-Manual | 265 | 9.7 | 262 | 3 | 11.3 | 0 | 0.0 | 11.3 | 7.6 | 13 |
| Workers | | | | | | | | | | |
| Other Non-Manual Workers | 257 | 9.4 | 252 | 5 | 19.5 | 2 | 7.9 | 27.2 | 23.4 | 12 |
| Skilled Manual Workers | 504 | 18.5 | 503 | 1 | 2.0 | 7 | 13.9 | 15.9 | 10.0 | 25 |
| Semi -Skilled Manual Workers | 88 | 3.2 | 88 | 0 | 0.0 | 1 | 11.4 | 11.4 | 11.4 | 4 |
| Unskilled Manual Workers | 8 | 0.3 | 8 | 0 | 0.0 | 1 | 125.0 | 125.0 | 0.0 | |
| Unemployed | 127 | 4.7 | 126 | 1 | 7.9 | 0 | 0.0 | 7.9 | 7.9 | 6 |
| Not Classifiable | 80 | 2.9 | 80 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 4 |
| Home Duties | 2 | 0.1 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 7 |
| Not Stated/Not Applicable | 591 | 21.7 | 586 | 5 | 8.5 | 5 | 8.5 | 16.9 | 13.6 | 29 |
| | | | | | | | | | | |

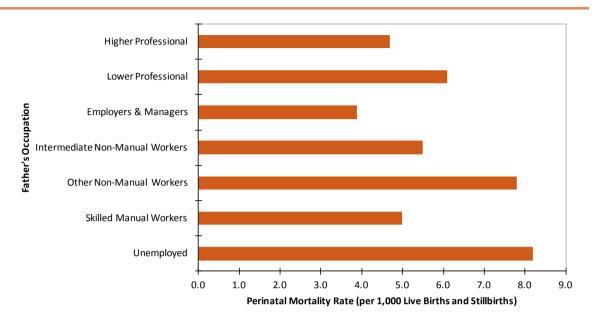
Notes:

^{*} Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

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

From 2010 the categories 'Not Stated' and 'Not Applicable' have been combined into the category 'Not Stated/ Not Applicable'. In previous Perinatal Statistics Reports these were reported as individual categories.

FIGURE 3.5 Perinatal Mortality Rate by Father's Occupation, Total Births



Notes: See Table 3.4 for data. Rates based on 20 or fewer observations are not included in this Figure. Adjusted Perinatal Mortality Rates are not presented due to small numbers associated with the majority of categories.

NATIONALITY

MOTHER'S NATIONALITY

Mother's nationality relates to 'place of birth' of the mother. Table 3.5 presents data on mother's nationality.

- After births to mothers from Ireland, the next highest proportion of total births were to mothers from the EU15 to EU27 at 11.6 per cent, followed by mothers from Asia at 4.0 per cent.
- Where rates are calculated on more than 20 observations, the highest perinatal mortality rate was recorded for babies born to mothers from Africa (13.9 per 1,000 live births and stillbirths) and the lowest perinatal mortality rates were reported for babies born to mothers from EU15 to EU27 at 4.9 per 1,000 live births and stillbirths.

Over the period 2007 to 2011 the proportion of births to Irish mothers fell from 79.3 per cent to 76.2 per cent. Figure 3.6 presents the distribution of births by nationality for non-Irish born mothers between 2007 and 2011.

 The proportion of total births to mothers from Africa decreased from 3.6 per cent in 2007 to 2.6 per cent in 2011.

Figure 3.7 presents the average age of mother by mother's nationality for 2011.

- The average age of all mothers giving birth was 31.7 years and the average age of mothers from Ireland was slightly higher at 32.1 years.
- Mothers giving birth from the EU15 to EU27 were on average younger at 29.1 years, whilst mothers
 from Australia and the EU15 (excluding Ireland and United Kingdom) recorded the highest average
 maternal age at 34.3 years and 33.3 years respectively.

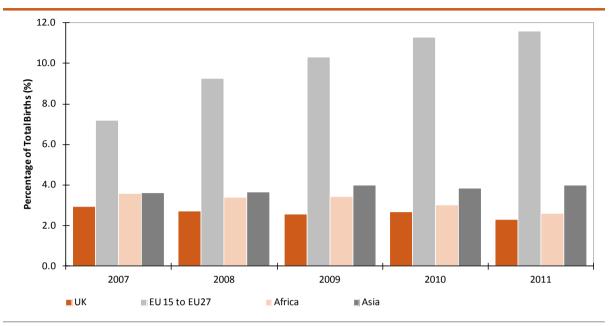
TABLE 3.5Mother's Nationality: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|----------------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|--------------------------------|---------------------------------|------------------|-------------|
| | | | | | | | Rate* | | | |
| Total Births | | | | | | | | | | |
| Ireland | 56,605 | 76.1 | 56,377 | 228 | 4.0 | 118 | 2.1 | 6.1 | 4.1 | 55,515 |
| UK | 1,695 | 2.3 | 1,689 | 6 | 3.5 | 5 | 3.0 | 6.5 | 5.3 | 1,665 |
| EU15 (excluding Ireland & UK) | 1,078 | 1.4 | 1,077 | 1 | 0.9 | 0 | 0.0 | 0.9 | 0.9 | 1,060 |
| EU15 to EU27 | 8,609 | 11.6 | 8,578 | 31 | 3.6 | 11 | 1.3 | 4.9 | 3.4 | 8,483 |
| Rest of Europe | 603 | 0.8 | 603 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 590 |
| Africa | 1,938 | 2.6 | 1,921 | 17 | 8.8 | 10 | 5.2 | 13.9 | 10.4 | 1,895 |
| Asia | 2,956 | 4.0 | 2,947 | 9 | 3.0 | 5 | 1.7 | 4.7 | 3.7 | 2,925 |
| America | 617 | 0.8 | 616 | 1 | 1.6 | 3 | 4.9 | 6.5 | 6.5 | 604 |
| Australia | 105 | 0.1 | 104 | 1 | 9.5 | 0 | 0.0 | 9.5 | 9.5 | 104 |
| New Zealand and Other Oceania | 43 | 0.1 | 43 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 43 |
| Multi Nationality | 2 | 0.0 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Other Nationality | 2 | 0.0 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | : |
| Not Stated | 124 | 0.2 | 121 | 3 | 24.2 | 1 | 8.3 | 32.3 | 24.4 | 12: |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,00 |
| Singleton Births | | | | | | | | | | |
| Ireland | 54,438 | 76.0 | 54,226 | 212 | 3.9 | 95 | 1.8 | 5.6 | 3.8 | 54,43 |
| UK | 1,634 | 2.3 | 1,628 | 6 | 3.7 | 5 | 3.1 | 6.7 | 5.5 | 1,63 |
| EU15 (excluding Ireland & UK) | 1,042 | 1.5 | 1,042 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1,04 |
| EU15 to EU27 | 8,356 | 11.7 | 8,327 | 29 | 3.5 | 8 | 1.0 | 4.4 | 3.0 | 8,35 |
| Rest of Europe | 577 | 0.8 | 577 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 57 |
| Africa | 1,855 | 2.6 | 1,838 | 17 | 9.2 | 9 | 4.9 | 14.0 | 10.3 | 1,85 |
| Asia | 2,892 | 4.0 | 2,885 | 7 | 2.4 | 5 | 1.7 | 4.1 | 3.1 | 2,89 |
| America | 591 | 0.8 | 590 | 1 | 1.7 | 3 | 5.1 | 6.8 | 6.8 | 59 |
| Australia | 103 | 0.1 | 102 | 1 | 9.7 | 0 | 0.0 | 9.7 | 9.7 | 10 |
| New Zealand and Other Oceania | 43 | 0.1 | 43 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 4 |
| Multi Nationality | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Other Nationality | 2 | 0.0 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |
| Not Stated | 118 | 0.2 | 115 | 3 | 25.4 | 1 | 8.7 | 33.9 | 25.6 | 11 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,65 |
| Multiple Births | | | | | | | | | | |
| Ireland | 2,167 | 79.5 | 2,151 | 16 | 7.4 | 23 | 10.7 | 18.0 | 11.6 | 1,07 |
| UK | 61 | 2.2 | 61 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 3 |
| EU15 (excluding Ireland & UK) | 36 | 1.3 | 35 | 1 | 27.8 | 0 | 0.0 | 27.8 | 27.8 | 1 |
| EU15 to EU27 | 253 | 9.3 | 251 | 2 | 7.9 | 3 | 12.0 | 19.8 | 15.9 | 12 |
| Rest of Europe | 26 | 1.0 | 26 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Africa | 83 | 3.0 | 83 | 0 | 0.0 | 1 | 12.0 | 12.0 | 12.0 | 4 |
| Asia | 64 | 2.3 | 62 | 2 | 31.3 | 0 | 0.0 | 31.3 | 31.3 | 3 |
| America | 26 | 1.0 | 26 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Australia | 2 | 0.1 | 2 | 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 | |
| Multi Nationality | 2 | 0.1 | 2 | 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 | |
| Not Stated | 6 | 0.2 | 6 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

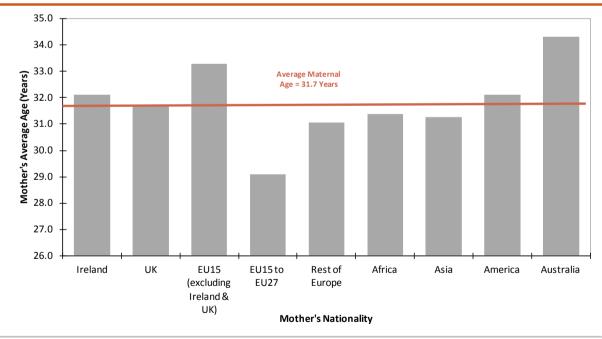
See Appendix F for a description of the classification system for nationality.

FIGURE 3.6
Percentage Distribution of Births by Nationality for Non-Irish Born Mothers, Total Births, 2007–2011*



Notes: See Appendix G, Table G3 for data. 'Not Stated' values are not included in the calculation of percentages. Percentages calculated for the four most frequent nationalities for Non-Irish born mothers in 2011.

FIGURE 3.7Average Age of Mother by Mother's Nationality, Total Maternities



Notes: See Appendix G, Table G4 for data.

Average ages calculated for nationalities with greater than 100 births.

^{*}Mothers from the United Kingdom, EU 15-27, Africa, and Asia accounted for 20.5 per cent of total births in 2011.

FATHER'S NATIONALITY

Father's nationality relates to 'place of birth' of the father. Father's details are only required for registration purposes where mother's marital status is recorded as 'married'. As a result, the proportion of records for which information is available is not complete and a category of 'not applicable' is required. This category is combined with 'not stated' for the purposes of presenting data on father's nationality in this report.

Table 3.6 presents information on father's nationality

- Births are excluded where father's details are not available and are, therefore, classified as 'not stated/not applicable'. Irish fathers accounted for 77.0 per cent of total births.
- Births to fathers from the EU15 to EU27 accounted for 10.1 per cent of total births.

Between 2007 and 2011

- The proportion of total births to fathers from Asia was 4.2 per cent in 2011 compared to 3.7 per cent in 2007.
- Births to fathers from Africa were 2.7 per cent of total births in 2011 compared to 3.9 per cent of total births in 2007.

TABLE 3.6Father's Nationality: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|----------------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Ireland | 44,181 | 59.4 | 44,019 | 162 | 3.7 | 90 | 2.0 | 5.7 | 3.7 | 43,301 |
| UK | 1,647 | 2.2 | 1,639 | 8 | 4.9 | 1 | 0.6 | 5.5 | 4.3 | 1,616 |
| EU15 (excluding | 698 | 0.9 | 694 | 4 | 5.7 | 1 | 1.4 | 7.2 | 7.2 | 692 |
| Ireland & UK) | | | | | | | | | | |
| EU15 to EU27 | 5,818 | 7.8 | 5,799 | 19 | 3.3 | 6 | 1.0 | 4.3 | 2.8 | 5,745 |
| Rest of Europe | 476 | 0.6 | 476 | 0 | 0.0 | 1 | 2.1 | 2.1 | 0.0 | 463 |
| Africa | 1,549 | 2.1 | 1,543 | 6 | 3.9 | 6 | 3.9 | 7.7 | 5.8 | 1,517 |
| Asia | 2,420 | 3.3 | 2,412 | 8 | 3.3 | 4 | 1.7 | 5.0 | 4.1 | 2,395 |
| America | 399 | 0.5 | 398 | 1 | 2.5 | 1 | 2.5 | 5.0 | 5.0 | 393 |
| Australia | 107 | 0.1 | 107 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 106 |
| New Zealand and Other Oceania | 69 | 0.1 | 69 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 69 |
| Other Nationality | 2 | 0.0 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 2 |
| Not Stated/ Not Applicable | 17,011 | 22.9 | 16,922 | 89 | 5.2 | 43 | 2.5 | 7.8 | 5.8 | 16,709 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births | | | | | | | | | | |
| Ireland | 42,433 | 59.2 | 42,286 | 147 | 3.5 | 71 | 1.7 | 5.1 | 3.3 | 42,433 |
| UK | 1,584 | 2.2 | 1,576 | 8 | 5.1 | 1 | 0.6 | 5.7 | 4.4 | 1,584 |
| EU15 (excluding Ireland & UK) | 685 | 1.0 | 681 | 4 | 5.8 | 1 | 1.5 | 7.3 | 7.3 | 685 |
| EU15 to EU27 | 5,670 | 7.9 | 5,652 | 18 | 3.2 | 5 | 0.9 | 4.1 | 2.6 | 5,670 |
| Rest of Europe | 451 | 0.6 | 451 | 0 | 0.0 | 1 | 2.2 | 2.2 | 0.0 | 451 |
| Africa | 1,485 | 2.1 | 1,479 | 6 | 4.0 | 6 | 4.1 | 8.1 | 6.1 | 1,485 |
| Asia | 2,368 | 3.3 | 2,362 | 6 | 2.5 | 4 | 1.7 | 4.2 | 3.4 | 2,368 |
| America | 387 | 0.5 | 386 | 1 | 2.6 | 1 | 2.6 | 5.2 | 5.2 | 387 |
| Australia | 105 | 0.1 | 105 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 105 |
| New Zealand and Other Oceania | 69 | 0.1 | 69 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 69 |
| Other Nationality | 2 | 0.0 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 2 |
| Not Stated/ Not Applicable | 16,412 | 22.9 | 16,326 | 86 | 5.2 | 36 | 2.2 | 7.4 | 5.5 | 16,412 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | | | | | | | | | |
| Ireland | 1,748 | 64.1 | 1,733 | 15 | 8.6 | 19 | 11.0 | 19.5 | 12.7 | 868 |
| UK | 63 | 2.3 | 63 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 32 |
| EU15 (excluding Ireland & UK) | 13 | 0.5 | 13 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 7 |
| EU15 to EU27 | 148 | 5.4 | 147 | 1 | 6.8 | 1 | 6.8 | 13.5 | 6.8 | 75 |
| Rest of Europe | 25 | 0.9 | 25 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 12 |
| Africa | 64 | 2.3 | 64 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 32 |
| Asia | 52 | 1.9 | 50 | 2 | 38.5 | 0 | 0.0 | 38.5 | 38.5 | 27 |
| America | 12 | 0.4 | 12 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 6 |
| Australia | 2 | 0.1 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| New Zealand and Other Oceania | 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 | C |
| Not Stated/ Not Applicable | 599 | 22.0 | 596 | 3 | 5.0 | 7 | 11.7 | 16.7 | 13.4 | 297 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

See Appendix F for a description of the classification system for nationality.

From 2010 the categories 'Not Stated' and 'Not Applicable' have been combined into the category 'Not Stated/ Not Applicable'. In previous Perinatal Statistics Reports these were reported as individual categories.

MATERNAL PARITY

Maternal parity is a mother's total number of previous live births and stillbirths. Table 3.7 presents data on maternal parity.

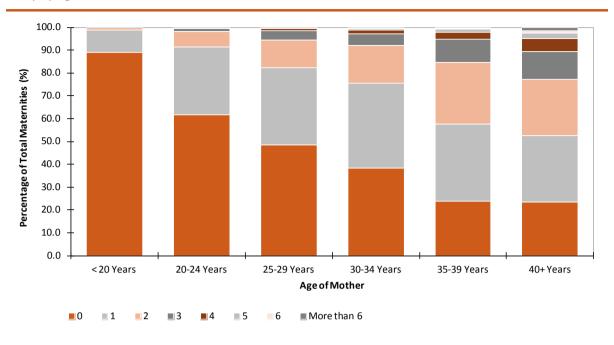
- Primiparous mothers accounted for 39.9 per cent of all maternities, with 60.1 per cent of maternities having one or more previous live births or stillbirths.
- Of mothers aged less than 20 years, 89.2 per cent gave birth for the first time, with only 9.6 per cent delivering for the second time and 1.2 per cent delivering a third time or more (see Figure 3.8).
- For women aged 30 to 34 years, 38.4 per cent gave birth for the first time and 37.2 per cent delivered for the second time.

TABLE 3.7 Maternal Parity: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| Death Deat | | | 1 | 1 | | | | | | | |
|--|------------------|-----------------|------|----------------|-------------|---------------------|-----|-----------|-------|------------------|-------------|
| 0 29,774 40.0 29,632 142 4.8 64 2.2 6.9 5.1 29,11 1 25,174 33.8 25,103 71 2.8 45 1.8 4.6 3.1 24,7 2 12,636 17.0 12,591 45 3.6 27 2.1 5.7 3.3 12,4 3 4,411 5.9 4,384 27 6.1 14 3.2 9.3 5.7 4,3 4 1,446 1.9 1,441 5 3.5 1 0.7 4.1 4.1 1.4 5 534 0.7 532 2 3.7 0 0.0 3.7 3.7 5 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 250.0 1 33.3 500.0 333.3 Total 74,377 | | Total Births | | Live Births | Stillbirths | Stillbirth Rate* | | Mortality | • | Adjusted PMR* | Maternities |
| 1 25,174 33.8 25,103 71 2.8 45 1.8 4.6 3.1 24,7 2 12,636 17.0 12,591 45 3.6 27 2.1 5.7 3.3 12,4 3 4,411 5.9 4,384 27 6.1 14 3.2 9.3 5.7 4,3 4 1,446 1.9 1,441 5 3.5 1 0.7 4.1 4.1 1,4 5 534 0.7 532 2 3.7 0 0.0 3.7 3.7 5 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 250.0 1 33.3 500.0 333.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.6 28.5 1 2 2,319 | Total Births | | | | | | | | | | |
| 2 12,636 17.0 12,591 45 3.6 27 2.1 5.7 3.3 12,4 3 4,411 5.9 4,384 27 6.1 14 3.2 9.3 5.7 4,3 4 1,446 1.9 1,441 5 3.5 1 0.7 4.1 4.1 1,4 5 534 0.7 532 2 3.7 0 0.0 3.7 3.7 5 6 199 0.3 196 3 15.1 0 0.0 15.1 15.1 1 More than 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 250.0 1 33.3 500.0 333.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73,0 Signet Bush | 0 | • | 40.0 | | | | | | 6.9 | 5.1 | 29,135 |
| 3 4,411 5.9 4,384 27 6.1 14 3.2 9.3 5.7 4,3 4 1,446 1.9 1,441 5 3.5 1 0.7 4.1 4.1 1,4 5 534 0.7 532 2 3.7 0 0.0 3.7 3.7 5 6 199 0.3 196 3 15.1 0 0.0 15.1 15.1 1 More than 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 250.0 1 33.3 500.0 333.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.0 23.3 3.3 3.2 1 250.0 1 333.3 500.0 333.3 2 1 24.0 1.0 4.4 4.4 3.0 | 1 | 25,174 | 33.8 | 25,103 | | | 45 | | | 3.1 | 24,745 |
| 4 1,446 1.9 1,441 5 3.5 1 0.7 4.1 4.1 1,45 5 534 0.7 532 2 3.7 0 0.0 3.7 3.7 5 6 199 0.3 198 1 5.0 1 5.1 10.0 0 1 More than 6 199 0.3 198 1 5.0 1 33.3 500.0 33.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73.0 Singleton Births 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28.5 1 24,319 33.9 24,252 67 2.8 40 1.6 4.4 3.0 24,3 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 <td>2</td> <td>12,636</td> <td>17.0</td> <td>12,591</td> <td>45</td> <td>3.6</td> <td>27</td> <td>2.1</td> <td>5.7</td> <td>3.3</td> <td>12,446</td> | 2 | 12,636 | 17.0 | 12,591 | 45 | 3.6 | 27 | 2.1 | 5.7 | 3.3 | 12,446 |
| 5 534 0.7 532 2 3.7 0 0.0 3.7 3.7 5 6 199 0.3 196 3 15.1 0 0.0 15.1 15.1 1 More than 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 25.0 1 5.1 10.1 0.0 1 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73,0 Singleton Births 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28,5 1 24,319 33.9 24,252 67 2.8 40 1.6 4.4 3.0 24,3 2 12,255 17.1 13.89 5 3.6 1 0.7 4.3 | 3 | 4,411 | | 4,384 | 27 | | 14 | | 9.3 | | 4,345 |
| 6 199 0.3 196 3 15.1 0 0.0 15.1 15.1 1 More than 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73.0 Singleton Births 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28,5 1 24,319 33.9 24,252 67 2.8 40 1.6 4.4 3.0 24,3 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 19.2 3 4.2 4.9 19.2 3 4.2 4.9 19.2 4.2 4.9 19.2 | 4 | 1,446 | 1.9 | 1,441 | 5 | 3.5 | 1 | 0.7 | 4.1 | 4.1 | 1,419 |
| More than 6 199 0.3 198 1 5.0 1 5.1 10.1 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73,0 Singleton Births 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28,5 1 24,319 33.9 24,252 67 2.8 40 1.6 6.1 4.6 28,5 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 | 5 | 534 | 0.7 | 532 | 2 | 3.7 | 0 | 0.0 | 3.7 | 3.7 | 525 |
| Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73.0 Singleton Births 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28,5 1 24,319 33.9 24,252 67 2.8 40 1.6 6.4 3.0 24,3 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.63 16.3 | 6 | 199 | 0.3 | 196 | 3 | 15.1 | 0 | 0.0 | 15.1 | 15.1 | 191 |
| Total 74,377 100 74,080 297 4.0 153 2.1 6.1 4.1 73,00 Singleton Births 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28,5 1 24,319 33.9 24,252 67 2.8 40 1.6 4.4 3.0 24,3 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0. | More than 6 | 199 | 0.3 | 198 | 1 | 5.0 | 1 | 5.1 | 10.1 | 0.0 | 198 |
| Singleton Births Singleton B | Not Stated | 4 | 0.0 | 3 | 1 | 250.0 | 1 | 333.3 | 500.0 | 333.3 | 4 |
| 0 28,501 39.8 28,371 130 4.6 45 1.6 6.1 4.6 28,5 1 24,319 33.9 24,252 67 2.8 40 1.6 4.4 3.0 24,3 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated | Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| 1 24,319 33.9 24,252 67 2.8 40 1.6 4.4 3.0 24,3 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,6 | Singleton Births | | | | | | | | | | |
| 2 12,255 17.1 12,215 40 3.3 26 2.1 5.4 2.9 12,2 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,6 Multiple Births 0 </td <td>0</td> <td>28,501</td> <td>39.8</td> <td>28,371</td> <td>130</td> <td>4.6</td> <td>45</td> <td>1.6</td> <td>6.1</td> <td>4.6</td> <td>28,501</td> | 0 | 28,501 | 39.8 | 28,371 | 130 | 4.6 | 45 | 1.6 | 6.1 | 4.6 | 28,501 |
| 3 4,281 6.0 4,254 27 6.3 12 2.8 9.1 5.6 4,2 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,6 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 <td>1</td> <td>24,319</td> <td>33.9</td> <td>24,252</td> <td>67</td> <td>2.8</td> <td>40</td> <td>1.6</td> <td>4.4</td> <td>3.0</td> <td>24,319</td> | 1 | 24,319 | 33.9 | 24,252 | 67 | 2.8 | 40 | 1.6 | 4.4 | 3.0 | 24,319 |
| 4 1,394 1.9 1,389 5 3.6 1 0.7 4.3 4.3 1,3 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,66 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 | 2 | 12,255 | 17.1 | 12,215 | 40 | 3.3 | 26 | 2.1 | 5.4 | 2.9 | 12,255 |
| 5 516 0.7 514 2 3.9 0 0.0 3.9 3.9 5 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,66 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 3 | 3 | 4,281 | 6.0 | 4,254 | 27 | 6.3 | 12 | 2.8 | 9.1 | 5.6 | 4,281 |
| 6 184 0.3 181 3 16.3 0 0.0 16.3 16.3 1 More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,66 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 3 130 4.8 130 0 0.0 0 0.0 0.0 0 4< | 4 | 1,394 | 1.9 | 1,389 | 5 | 3.6 | 1 | 0.7 | 4.3 | 4.3 | 1,394 |
| More than 6 197 0.3 196 1 5.1 1 5.1 10.2 0.0 1 Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,66 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 5 | 5 | 516 | 0.7 | 514 | 2 | 3.9 | 0 | 0.0 | 3.9 | 3.9 | 516 |
| Not Stated 4 0.0 3 1 250.0 1 333.3 500.0 333.3 Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,6 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 5 18 0.7 18 0 0.0 0 0.0 0.0 0.0 More than 6 2 0.1 2 <t< td=""><td>6</td><td>184</td><td>0.3</td><td>181</td><td>3</td><td>16.3</td><td>0</td><td>0.0</td><td>16.3</td><td>16.3</td><td>184</td></t<> | 6 | 184 | 0.3 | 181 | 3 | 16.3 | 0 | 0.0 | 16.3 | 16.3 | 184 |
| Total 71,651 100 71,375 276 3.9 126 1.8 5.6 3.8 71,6 Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 1 3 4 15.4 7.8 1 3 1 15.4 7.8 1 3 1 15.4 7.8 1 3 1 1 2.7 15.7 15.7 1 1 2.7 15.4 15.4 7.8 1 3 1 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | More than 6 | 197 | 0.3 | 196 | 1 | 5.1 | 1 | 5.1 | 10.2 | 0.0 | 197 |
| Multiple Births 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 4 52 1.9 52 0 0.0 0 0.0 | Not Stated | 4 | 0.0 | 3 | 1 | 250.0 | 1 | 333.3 | 500.0 | 333.3 | 4 |
| 0 1,273 46.7 1,261 12 9.4 19 15.1 24.4 16.6 6 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 1 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 1 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0 0.0 0 0.0 0 0.0 0 0 0.0 0 0.0 0 0.0 0 <td< td=""><td>Total</td><td>71,651</td><td>100</td><td>71,375</td><td>276</td><td>3.9</td><td>126</td><td>1.8</td><td>5.6</td><td>3.8</td><td>71,651</td></td<> | Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| 1 855 31.4 851 4 4.7 5 5.9 10.5 5.9 4 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 15.7 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 5 18 0.7 18 0 0.0 0 0.0 0.0 0.0 0.0 6 15 0.6 15 0 0.0 0 0.0 0.0 0.0 0.0 More than 6 2 0.1 2 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 | Multiple Births | | | | | | | | | | |
| 2 381 14.0 376 5 13.1 1 2.7 15.7 15.7 15.7 1 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 5 18 0.7 18 0 0.0 0 0.0 0.0 0.0 0.0 6 15 0.6 15 0 0.0 0 0.0 0.0 0.0 0.0 More than 6 2 0.1 2 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 | 1,273 | 46.7 | 1,261 | 12 | 9.4 | 19 | 15.1 | 24.4 | 16.6 | 634 |
| 3 130 4.8 130 0 0.0 2 15.4 15.4 7.8 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 5 18 0.7 18 0 0.0 0 0.0 0.0 0.0 6 15 0.6 15 0 0.0 0 0.0 0.0 0.0 More than 6 2 0.1 2 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 | 1 | 855 | 31.4 | 851 | 4 | 4.7 | 5 | 5.9 | 10.5 | 5.9 | 426 |
| 4 52 1.9 52 0 0.0 0 0.0 0.0 0.0 5 18 0.7 18 0 0.0 0 0.0 0.0 0.0 6 15 0.6 15 0 0.0 0 0.0 0.0 0.0 More than 6 2 0.1 2 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 | 2 | 381 | 14.0 | 376 | 5 | 13.1 | 1 | 2.7 | 15.7 | 15.7 | 191 |
| 5 18 0.7 18 0 0.0 0 0.0 0.0 0.0 6 15 0.6 15 0 0.0 0 0.0 0.0 0.0 More than 6 2 0.1 2 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 | 3 | 130 | 4.8 | 130 | 0 | 0.0 | 2 | 15.4 | 15.4 | 7.8 | 64 |
| 6 15 0.6 15 0 0.0 0 0.0 0.0 0.0 More than 6 2 0.1 2 0 0.0 0 0 0.0 0.0 0.0 Not Stated 0 0.0 0 0 0 0 0 0 0 | 4 | 52 | 1.9 | 52 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 25 |
| More than 6 2 0.1 2 0 0.0 0 0.0 0.0 0.0 Not Stated 0 0.0 0 0.0 0 0.0 | 5 | 18 | 0.7 | 18 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 9 |
| Not Stated 0 0.0 0 0 0.0 0 0.0 0.0 0.0 | 6 | 15 | 0.6 | 15 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 7 |
| | More than 6 | 2 | 0.1 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Total 2.726 100 2.705 21 7.7 27 10.0 17.6 12.2 1.3 | Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| | Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and Note: stillbirths. For early neonatal deaths, rates are calculated on total live births.

FIGURE 3.8Parity by Age of Mother, Total Maternities

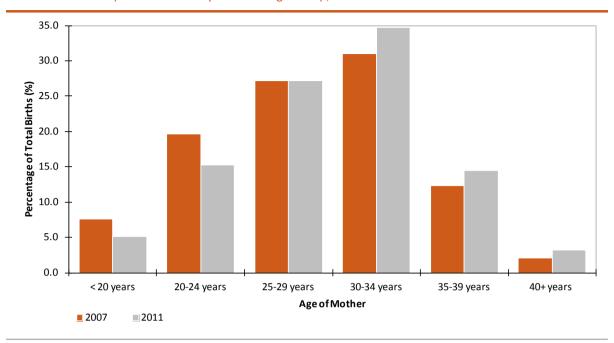


Note: See Appendix G, Table G5 for data. 'Not Stated' values are not included in the calculation of percentages.

Figures 3.9 to 3.10 present data on maternal parity for 2007 and 2011.

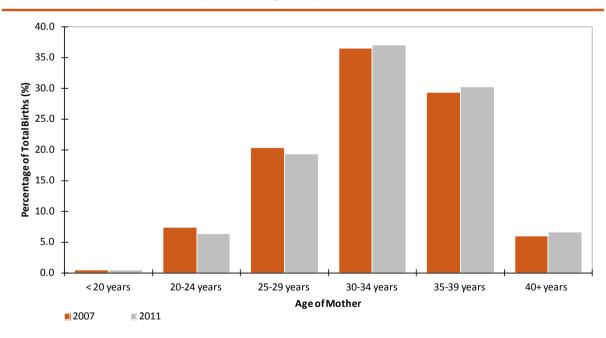
- The proportion of mothers giving birth for the first time and aged less than 25 years fell between 2007 and 2011; births to primiparous women aged less than 20 years accounted for 7.6 per cent of births in 2007 compared to 5.1 per cent in 2011. Births to primiparous women aged 20 to 24 years accounted for 19.7 per cent of births in 2007 and 15.3 per cent of births in 2011.
- The proportion of mothers giving birth for a second time or more fell for all mothers aged between 20 and 29 years, with a slight increase recorded for mothers aged 30 years or more.

FIGURE 3.9Total Births to Primiparous Women by Mother's Age Group, 2007 and 2011



Note: See Appendix G, Table G6 for data. 'Not Stated' values are not included in the calculation of percentages.

FIGURE 3.10
Total Births to Multiparous Women by Mother's Age Group, 2007 and 2011



Note: See Appendix G, Table G7 for data. 'Not Stated' values are not included in the calculation of percentages.

NUMBER OF PREVIOUS STILLBIRTHS

In 2011, 98.2 per cent of multiparous women giving birth recorded no previous stillbirths while 1.8 per cent recorded 1 or more previous stillbirths (see Table 3.8).

TABLE 3.8 Previous Stillbirths: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|---------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| 0 | 43,802 | 98.2 | 43,654 | 148 | 3.4 | 86 | 2.0 | 5.3 | 3.4 | 43,094 |
| 1 | 728 | 1.6 | 722 | 6 | 8.2 | 2 | 2.8 | 11.0 | 8.3 | 706 |
| 2 | 52 | 0.1 | 52 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 52 |
| 3 and over | 17 | 0.0 | 17 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 17 |
| Total | 44,599 | 100.0 | 44,445 | 154 | 3.5 | 88 | 2.0 | 5.4 | 3.5 | 43,869 |
| Singleton Bi | rths | | | | | | | | | |
| 0 | 42,393 | 98.3 | 42,254 | 139 | 3.3 | 78 | 1.8 | 5.1 | 3.2 | 42,393 |
| 1 | 684 | 1.6 | 678 | 6 | 8.8 | 2 | 2.9 | 11.7 | 8.8 | 684 |
| 2 | 52 | 0.1 | 52 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 52 |
| 3 and over | 17 | 0.0 | 17 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 17 |
| Total | 43,146 | 100.0 | 43,001 | 145 | 3.4 | 80 | 1.9 | 5.2 | 3.3 | 43,146 |
| Multiple Birt | ths | | | | | | | | | |
| 0 | 1,409 | 97.0 | 1,400 | 9 | 6.4 | 8 | 5.7 | 12.1 | 8.5 | 701 |
| 1 | 44 | 3.0 | 44 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 22 |
| 2 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| 3 and over | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 1,453 | 100.0 | 1,444 | 9 | 6.2 | 8 | 5.5 | 11.7 | 8.3 | 723 |

Notes:

stillbirths. For early neonatal deaths, rates are calculated on total live births.

This table only includes women having second and subsequent births. Primiparous women (i.e. women who have had no previous pregnancy resulting in a live birth or stillbirth) are not included in this table.

There were 4 maternities with unknown parity; these were excluded from this table.

INTERVAL SINCE LAST BIRTH

Table 3.9 shows the interval since the last birth for multiparous women.

- Almost 53 per cent of all multiparous mothers had their previous birth within the last three years.
- Approximately 16 per cent had their previous birth more than six years earlier.

TABLE 3.9 Interval in Years since Last Birth: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|---------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| 1 year or less | 575 | 1.3 | 573 | 2 | 3.5 | 5 | 8.7 | 12.2 | 7.0 | 556 |
| >1 year to 2 years | 11,099 | 24.9 | 11,057 | 42 | 3.8 | 22 | 2.0 | 5.8 | 3.9 | 10,935 |
| >2 years to 3 years | 11,718 | 26.3 | 11,692 | 26 | 2.2 | 21 | 1.8 | 4.0 | 2.1 | 11,538 |
| >3 years to 4 years | 7,136 | 16.0 | 7,117 | 19 | 2.7 | 13 | 1.8 | 4.5 | 2.7 | 7,022 |
| >4 years to 5 years | 4,196 | 9.4 | 4,177 | 19 | 4.5 | 9 | 2.2 | 6.7 | 4.3 | 4,127 |
| >5 years to 6 years | 2,607 | 5.8 | 2,600 | 7 | 2.7 | 3 | 1.2 | 3.8 | 1.9 | 2,564 |
| More than 6 years | 6,903 | 15.5 | 6,869 | 34 | 4.9 | 12 | 1.7 | 6.7 | 5.1 | 6,770 |
| Not Stated | 365 | 0.8 | 360 | 5 | 13.7 | 3 | 8.3 | 21.9 | 19.2 | 357 |
| Total | 44,599 | 100.0 | 44,445 | 154 | 3.5 | 88 | 2.0 | 5.4 | 3.5 | 43,869 |
| Singleton Births | | | | | | | | | | |
| 1 year or less | 536 | 1.2 | 534 | 2 | 3.7 | 3 | 5.6 | 9.3 | 5.6 | 536 |
| >1 year to 2 years | 10,772 | 25.0 | 10,732 | 40 | 3.7 | 21 | 2.0 | 5.7 | 3.9 | 10,772 |
| >2 years to 3 years | 11,357 | 26.3 | 11,332 | 25 | 2.2 | 19 | 1.7 | 3.9 | 2.0 | 11,357 |
| >3 years to 4 years | 6,911 | 16.0 | 6,896 | 15 | 2.2 | 12 | 1.7 | 3.9 | 2.0 | 6,911 |
| >4 years to 5 years | 4,061 | 9.4 | 4,044 | 17 | 4.2 | 9 | 2.2 | 6.4 | 3.9 | 4,061 |
| >5 years to 6 years | 2,521 | 5.8 | 2,514 | 7 | 2.8 | 3 | 1.2 | 4.0 | 2.0 | 2,521 |
| More than 6 years | 6,639 | 15.4 | 6,605 | 34 | 5.1 | 12 | 1.8 | 6.9 | 5.3 | 6,639 |
| Not Stated | 349 | 0.8 | 344 | 5 | 14.3 | 1 | 2.9 | 17.2 | 14.4 | 349 |
| Total | 43,146 | 100.0 | 43,001 | 145 | 3.4 | 80 | 1.9 | 5.2 | 3.3 | 43,146 |
| Multiple Births | | | | | | | | | | |
| 1 year or less | 39 | 2.7 | 39 | 0 | 0.0 | 2 | 51.3 | 51.3 | 26.3 | 20 |
| >1 year to 2 years | 327 | 22.5 | 325 | 2 | 6.1 | 1 | 3.1 | 9.2 | 3.1 | 163 |
| >2 years to 3 years | 361 | 24.8 | 360 | 1 | 2.8 | 2 | 5.6 | 8.3 | 2.8 | 181 |
| >3 years to 4 years | 225 | 15.5 | 221 | 4 | 17.8 | 1 | 4.5 | 22.2 | 22.2 | 111 |
| >4 years to 5 years | 135 | 9.3 | 133 | 2 | 14.8 | 0 | 0.0 | 14.8 | 14.8 | 66 |
| >5 years to 6 years | 86 | 5.9 | 86 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 43 |
| More than 6 years | 264 | 18.2 | 264 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 131 |
| Not Stated | 16 | 1.1 | 16 | 0 | 0.0 | 2 | 125.0 | 125.0 | 125.0 | 8 |
| Total | 1,453 | 100.0 | 1,444 | 9 | 6.2 | 8 | 5.5 | 11.7 | 8.3 | 723 |

Notes:

^{*} Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

This table only includes women having second and subsequent births. Primiparous women (i.e. women who have had no previous pregnancy resulting in a live birth or stillbirth) are not included in this table.

There were 4 maternities with unknown parity; these were excluded from this table.

BIRTHWEIGHT

The birthweight of a baby is widely used as a key indicator of health status. According to the World Health Organization (WHO), low birthweight babies are defined as weighing less than 2,500 grams. This is further divided into very low birthweight (weighing less than 1,500 grams) and extremely low birthweight (weighing less than 1,000 grams). Low birthweight babies are more likely to have poor perinatal outcomes with consequences for later life experience.²⁰

- The average birthweight for live births was 3,505.0 grams for singletons, 2,464.6 grams for multiples and 3,467.0 grams for total live births.
- The average birthweight of live births was 3,525.6 grams for males compared to 3,405.3 grams for females.
- 70.4 per cent of stillbirths were classified as low birthweight, with the average birthweight for total stillbirths at 1,872.3 grams.

Table 3.10 presents data on baby birthweight.

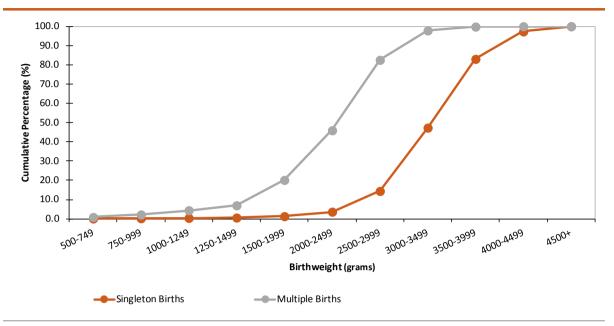
- The percentage of total live births classified as low birthweight was 5.2 per cent (3.6 per cent of singletons and 46.0 per cent of multiples).
- There was considerable variation in very low birthweight rates between singleton and multiple births with 0.6 per cent of singleton live births weighing less than 1,500 grams compared to 7.0 per cent for multiple births (see Figure 3.11).
- 92.2 per cent of total live births were in the healthy birthweight category weighing between 2,500 and 4,499 grams (see Figure 3.12).
- A marginally smaller proportion of male live births were low birthweight (4.8 per cent) compared with female live births (5.6 per cent) (see Figure 3.13).

TABLE 3.10 Birthweight (grams): Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | rate | | | |
| 500-749 | 148 | 0.2 | 98 | 50 | 337.8 | 43 | 438.8 | 628.4 | 601.4 | 135 |
| 750-999 | 163 | 0.2 | 135 | 28 | 171.8 | 19 | 140.7 | 288.3 | 226.7 | 144 |
| 1000-1249 | 210 | 0.3 | 181 | 29 | 138.1 | 10 | 55.2 | 185.7 | 118.6 | 176 |
| 1250-1499 | 219 | 0.3 | 194 | 25 | 114.2 | 6 | 30.9 | 141.6 | 91.8 | 181 |
| 1500-1999 | 913 | 1.2 | 870 | 43 | 47.1 | 15 | 17.2 | 63.5 | 31.7 | 716 |
| 2000-2499 | 2,398 | 3.2 | 2,364 | 34 | 14.2 | 16 | 6.8 | 20.9 | 12.6 | 2,043 |
| 2500-2999 | 8,709 | 11.7 | 8,675 | 34 | 3.9 | 10 | 1.2 | 5.1 | 3.6 | 8,220 |
| 3000-3499 | 23,931 | 32.2 | 23,904 | 27 | 1.1 | 16 | 0.7 | 1.8 | 1.2 | 23,737 |
| 3500-3999 | 25,569 | 34.4 | 25,551 | 18 | 0.7 | 15 | 0.6 | 1.3 | 0.8 | 25,541 |
| 4000-4499 | 10,197 | 13.7 | 10,188 | 9 | 0.9 | 2 | 0.2 | 1.1 | 1.0 | 10,195 |
| 4500 and Over | 1,919 | 2.6 | 1,919 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1,919 |
| Not Stated | 1 | 0.0 | 1 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 | 1 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births | | | | | | | | | | |
| 500-749 | 119 | 0.2 | 74 | 45 | 378.2 | 33 | 445.9 | 655.5 | 627.3 | 119 |
| 750-999 | 125 | 0.2 | 100 | 25 | 200.0 | 13 | 130.0 | 304.0 | 230.1 | 125 |
| 1000-1249 | 146 | 0.2 | 121 | 25 | 171.2 | 6 | 49.6 | 212.3 | 154.4 | 146 |
| 1250-1499 | 146 | 0.2 | 125 | 21 | 143.8 | 5 | 40.0 | 178.1 | 111.1 | 146 |
| 1500-1999 | 551 | 0.8 | 513 | 38 | 69.0 | 14 | 27.3 | 94.4 | 45.9 | 551 |
| 2000-2499 | 1,700 | 2.4 | 1,666 | 34 | 20.0 | 15 | 9.0 | 28.8 | 17.8 | 1,700 |
| 2500-2999 | 7,719 | 10.8 | 7,685 | 34 | 4.4 | 9 | 1.2 | 5.6 | 4.0 | 7,719 |
| 3000-3499 | 23,518 | 32.8 | 23,491 | 27 | 1.1 | 15 | 0.6 | 1.8 | 1.2 | 23,518 |
| 3500-3999 | 25,515 | 35.6 | 25,497 | 18 | 0.7 | 13 | 0.5 | 1.2 | 0.8 | 25,515 |
| 4000-4499 | 10,192 | 14.2 | 10,183 | 9 | 0.9 | 2 | 0.2 | 1.1 | 1.0 | 10,192 |
| 4500 and Over | 1,919 | 2.7 | 1,919 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1,919 |
| Not Stated | 1 | 0.0 | 1 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 | 1 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | | | | | | | | | |
| 500-749 | 29 | 1.1 | 24 | 5 | 172.4 | 10 | 416.7 | 517.2 | 500.0 | 16 |
| 750-999 | 38 | 1.4 | 35 | 3 | 78.9 | 6 | 171.4 | 236.8 | 216.2 | 19 |
| 1000-1249 | 64 | 2.3 | 60 | 4 | 62.5 | 4 | 66.7 | 125.0 | 34.5 | 30 |
| 1250-1499 | 73 | 2.7 | 69 | 4 | 54.8 | 1 | 14.5 | 68.5 | 55.6 | 35 |
| 1500-1999 | 362 | 13.3 | 357 | 5 | 13.8 | 1 | 2.8 | 16.6 | 11.1 | 165 |
| 2000-2499 | 698 | 25.6 | 698 | 0 | 0.0 | 1 | 1.4 | 1.4 | 0.0 | 343 |
| 2500-2999 | 990 | 36.3 | 990 | 0 | 0.0 | 1 | 1.0 | 1.0 | 0.0 | 501 |
| 3000-3499 | 413 | 15.2 | 413 | 0 | 0.0 | 1 | 2.4 | 2.4 | 2.4 | 219 |
| 3500-3999 | 54 | 2.0 | 54 | 0 | 0.0 | 2 | 37.0 | 37.0 | 0.0 | 26 |
| 4000-4499 | 5 | 0.2 | 5 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 3 |
| 4500 and Over | 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 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

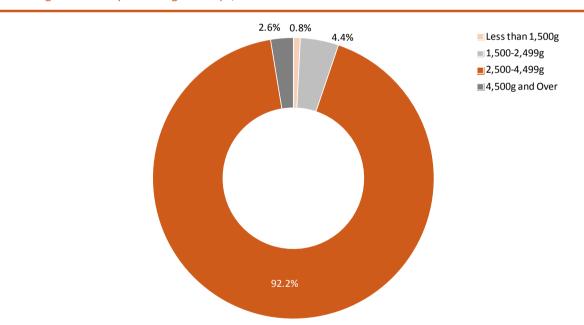
Notes: Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. Birthweight tables by primiparous and multiparous women are provided in Appendix G, Tables G8 and G9.

FIGURE 3.11Birthweight: Cumulative Percentages of Total Live Births



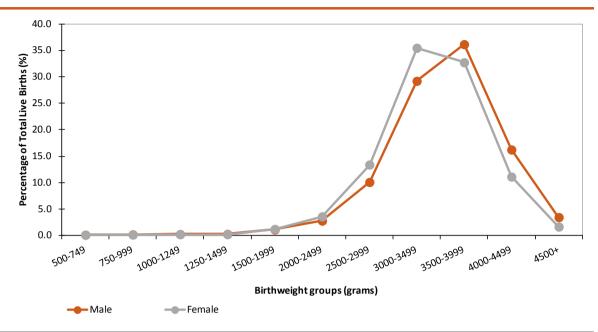
Note: See Table 3.10 for data. 'Not Stated' values are not included in the calculation of percentages.

FIGURE 3.12Percentage of Births by Birthweight Groups, Total Live Births



Note: See Appendix G, Table G10 for data. 'Not Stated' values are not included in the calculation of percentages.

FIGURE 3.13 Percentage Distribution for Males and Females across Birthweight Groups, Total Live Births



Note: See Appendix G, Table G11 for data. 'Not Stated' values are not included in the calculation of percentages.

GESTATIONAL AGE

Based on maternities, the average gestational age for total births was 39.3 weeks. Live births reported an average gestational age of 39.4 weeks and stillbirths reported an average gestational age of 32.9 weeks. The average gestational age for singleton live births was 39.4 weeks compared with 35.9 weeks for live twin births and 31.7 weeks for higher-order multiple live births.

Table 3.11 presents data on mother's gestational age.

- 90.8 per cent of all babies were born at term (37 to 41 weeks).
- Preterm birth (born before 37 weeks) occurred in 66.7 per cent of stillbirths and 5.8 per cent of live births.
- Preterm births were associated with higher risk of perinatal death and comprised 6.1 per cent of total births (see also Figure 3.14).

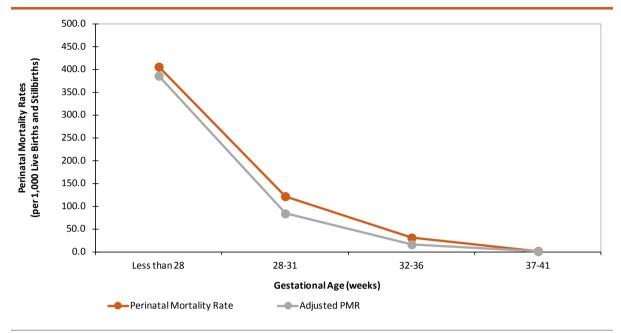
TABLE 3.11Gestational Age (weeks) at Delivery: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal | Early Neonatal | Perinatal Mortality | Adjusted PMR* | Maternities |
|------------------|-----------------|-----------------|----------------|-------------|---------------------|-------------------|-------------------|------------------------|------------------|-------------|
| | Direits | % | Dirtiis | | nate | Deaths | Mortality | Rate* | | |
| | | | | | | | Rate* | | | |
| Total Births | | | | | | | | | | |
| Less than 28 | 308 | 0.4 | 242 | 66 | 214.3 | 59 | 243.8 | 405.8 | 385.9 | 276 |
| 28-31 | 533 | 0.7 | 481 | 52 | 97.6 | 13 | 27.0 | 122.0 | 84.1 | 443 |
| 32-36 | 3,680 | 4.9 | 3,602 | 78 | 21.2 | 37 | 10.3 | 31.3 | 16.6 | 3,141 |
| 37-41 | 67,524 | 90.8 | 67,430 | 94 | 1.4 | 39 | 0.6 | 2.0 | 1.2 | 66,816 |
| 42 and Over | 2,324 | 3.1 | 2,320 | 4 | 1.7 | 5 | 2.2 | 3.9 | 2.6 | 2,324 |
| Not Stated | 8 | 0.0 | 5 | 3 | 375.0 | 0 | 0.0 | 375.0 | 375.0 | 8 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births | | | | | | | | | | |
| Less than 28 | 238 | 0.3 | 179 | 59 | 247.9 | 45 | 251.4 | 437.0 | 412.3 | 238 |
| 28-31 | 363 | 0.5 | 318 | 45 | 124.0 | 9 | 28.3 | 148.8 | 112.1 | 363 |
| 32-36 | 2,611 | 3.6 | 2,539 | 72 | 27.6 | 31 | 12.2 | 39.4 | 20.7 | 2,611 |
| 37-41 | 66,107 | 92.3 | 66,014 | 93 | 1.4 | 36 | 0.5 | 2.0 | 1.2 | 66,107 |
| 42 and Over | 2,324 | 3.2 | 2,320 | 4 | 1.7 | 5 | 2.2 | 3.9 | 2.6 | 2,324 |
| Not Stated | 8 | 0.0 | 5 | 3 | 375.0 | 0 | 0.0 | 375.0 | 375.0 | 8 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | | | | | | | | | |
| Less than 28 | 70 | 2.6 | 63 | 7 | 100.0 | 14 | 222.2 | 300.0 | 300.0 | 38 |
| 28-31 | 170 | 6.2 | 163 | 7 | 41.2 | 4 | 24.5 | 64.7 | 24.5 | 80 |
| 32-36 | 1,069 | 39.2 | 1,063 | 6 | 5.6 | 6 | 5.6 | 11.2 | 6.6 | 530 |
| 37-41 | 1,417 | 52.0 | 1,416 | 1 | 0.7 | 3 | 2.1 | 2.8 | 0.7 | 709 |
| 42 and Over | 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 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

Gestational age tables by primiparous and multiparous women are provided in Appendix G, Tables G12 and G13.

FIGURE 3.14 Perinatal Mortality Rates by Gestational Age (weeks) at Delivery, Total Births



Note: See Table 3.11 for data.

MONTH OF BIRTH

Table 3.12 presents data on the month of birth.

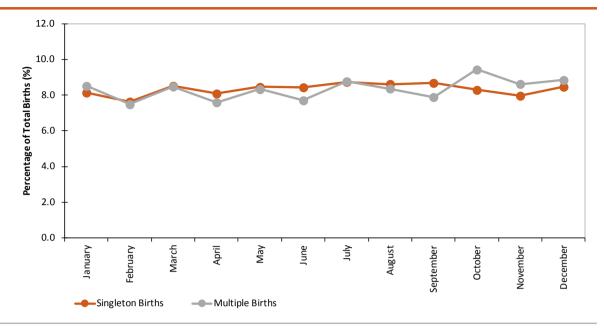
- Total births were fairly evenly spread throughout the year, with the lowest number of births occurring in February (7.6 per cent) and the highest occurring in July (8.7 per cent).
- The highest number of singleton births occurred in July (8.7 per cent) and the highest number of multiple births in October (9.4 per cent) (see Figure 3.15).

TABLE 3.12Month of Birth: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| January | 6,063 | 8.2 | 6,040 | 23 | 3.8 | 8 | 1.3 | 5.1 | 2.5 | 5,947 |
| February | 5,672 | 7.6 | 5,651 | 21 | 3.7 | 13 | 2.3 | 6.0 | 4.4 | 5,571 |
| March | 6,330 | 8.5 | 6,301 | 29 | 4.6 | 16 | 2.5 | 7.1 | 4.4 | 6,214 |
| April | 6,000 | 8.1 | 5,977 | 23 | 3.8 | 11 | 1.8 | 5.7 | 3.5 | 5,895 |
| May | 6,284 | 8.4 | 6,258 | 26 | 4.1 | 9 | 1.4 | 5.6 | 3.7 | 6,168 |
| June | 6,252 | 8.4 | 6,229 | 23 | 3.7 | 13 | 2.1 | 5.8 | 4.0 | 6,147 |
| July | 6,498 | 8.7 | 6,471 | 27 | 4.2 | 11 | 1.7 | 5.8 | 4.2 | 6,380 |
| August | 6,404 | 8.6 | 6,381 | 23 | 3.6 | 21 | 3.3 | 6.9 | 5.2 | 6,290 |
| September | 6,434 | 8.7 | 6,415 | 19 | 3.0 | 18 | 2.8 | 5.8 | 4.2 | 6,324 |
| October | 6,195 | 8.3 | 6,179 | 16 | 2.6 | 13 | 2.1 | 4.7 | 3.2 | 6,066 |
| November | 5,939 | 8.0 | 5,910 | 29 | 4.9 | 10 | 1.7 | 6.6 | 5.2 | 5,821 |
| December | 6,306 | 8.5 | 6,268 | 38 | 6.0 | 10 | 1.6 | 7.6 | 5.2 | 6,185 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births | | | | | | | | | | |
| January | 5,831 | 8.1 | 5,811 | 20 | 3.4 | 8 | 1.4 | 4.8 | 2.4 | 5,831 |
| February | 5,468 | 7.6 | 5,448 | 20 | 3.7 | 11 | 2.0 | 5.7 | 4.2 | 5,468 |
| March | 6,099 | 8.5 | 6,074 | 25 | 4.1 | 16 | 2.6 | 6.7 | 3.9 | 6,099 |
| April | 5,793 | 8.1 | 5,770 | 23 | 4.0 | 11 | 1.9 | 5.9 | 3.6 | 5,793 |
| May | 6,057 | 8.5 | 6,035 | 22 | 3.6 | 8 | 1.3 | 5.0 | 3.1 | 6,057 |
| June | 6,042 | 8.4 | 6,019 | 23 | 3.8 | 9 | 1.5 | 5.3 | 3.8 | 6,042 |
| July | 6,259 | 8.7 | 6,236 | 23 | 3.7 | 10 | 1.6 | 5.3 | 3.7 | 6,259 |
| August | 6,176 | 8.6 | 6,155 | 21 | 3.4 | 14 | 2.3 | 5.7 | 3.9 | 6,176 |
| September | 6,219 | 8.7 | 6,201 | 18 | 2.9 | 12 | 1.9 | 4.8 | 4.0 | 6,219 |
| October | 5,938 | 8.3 | 5,922 | 16 | 2.7 | 11 | 1.9 | 4.5 | 3.2 | 5,938 |
| November | 5,704 | 8.0 | 5,675 | 29 | 5.1 | 8 | 1.4 | 6.5 | 5.1 | 5,704 |
| December | 6,065 | 8.5 | 6,029 | 36 | 5.9 | 8 | 1.3 | 7.3 | 5.1 | 6,065 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | | | | | | | | | |
| January | 232 | 8.5 | 229 | 3 | 12.9 | 0 | 0.0 | 12.9 | 4.3 | 116 |
| February | 204 | 7.5 | 203 | 1 | 4.9 | 2 | 9.9 | 14.7 | 9.9 | 103 |
| March | 231 | 8.5 | 227 | 4 | 17.3 | 0 | 0.0 | 17.3 | 17.3 | 115 |
| April | 207 | 7.6 | 207 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 102 |
| May | 227 | 8.3 | 223 | 4 | 17.6 | 1 | 4.5 | 22.0 | 17.7 | 111 |
| June | 210 | 7.7 | 210 | 0 | 0.0 | 4 | 19.0 | 19.0 | 9.6 | 105 |
| July | 239 | 8.8 | 235 | 4 | 16.7 | 1 | 4.3 | 20.9 | 16.8 | 121 |
| August | 228 | 8.4 | 226 | 2 | 8.8 | 7 | 31.0 | 39.5 | 39.5 | 114 |
| September | 215 | 7.9 | 214 | 1 | 4.7 | 6 | 28.0 | 32.6 | 9.5 | 105 |
| October | 257 | 9.4 | 257 | 0 | 0.0 | 2 | 7.8 | 7.8 | 3.9 | 128 |
| November | 235 | 8.6 | 235 | 0 | 0.0 | 2 | 8.5 | 8.5 | 8.5 | 117 |
| December | 241 | 8.8 | 239 | 2 | 8.3 | 2 | 8.4 | 16.6 | 8.4 | 120 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Note: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

FIGURE 3.15 Percentage of Births by Month of Birth, Total Births



Note: See Table 3.12 for data.

SECTION FOUR

PERINATAL CARE

INTRODUCTION

This section presents a detailed review of aspects of perinatal care for the mother and baby. Tables and figures are presented in some detail for a number of variables, including

- type of antenatal care
- timing of first antenatal visit
- mother's antenatal and postnatal length of stay
- method of delivery
- mother's immunity to rubella
- infant's length of stay
- type of feeding.

TYPE OF ANTENATAL CARE

Table 4.1 presents type of antenatal care.

- The preferred choice was combined hospital and G.P. which accounted for 77.3 per cent of total maternities.21
- Hospital/Obstetrician care was higher for maternities delivering multiple births (36.3 per cent) than those delivering singleton births (22.0 per cent).

TABLE 4.1 Type of Antenatal Care: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|------------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Hospital/ Obstetrician | 16,780 | 22.6 | 16,710 | 70 | 4.2 | 68 | 4.1 | 8.2 | 5.1 | 16,279 |
| General Practitioner only | 175 | 0.2 | 174 | 1 | 5.7 | 1 | 5.7 | 11.4 | 5.7 | 174 |
| Hospital & G.P. combined | 57,298 | 77.0 | 57,088 | 210 | 3.7 | 81 | 1.4 | 5.1 | 3.5 | 56,437 |
| None | 114 | 0.2 | 101 | 13 | 114.0 | 3 | 29.7 | 140.4 | 140.4 | 109 |
| Not Stated | 10 | 0.0 | 7 | 3 | 300.0 | 0 | 0.0 | 300.0 | 300.0 | 9 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births | | | | | | | | | | |
| Hospital/ Obstetrician | 15,787 | 22.0 | 15,723 | 64 | 4.1 | 56 | 3.6 | 7.6 | 4.8 | 15,787 |
| General Practitioner only | 173 | 0.2 | 172 | 1 | 5.8 | 1 | 5.8 | 11.6 | 5.8 | 173 |
| Hospital & G.P. combined | 55,579 | 77.6 | 55,380 | 199 | 3.6 | 69 | 1.2 | 4.8 | 3.4 | 55,579 |
| None | 104 | 0.1 | 93 | 11 | 105.8 | 0 | 0.0 | 105.8 | 105.8 | 104 |
| Not Stated | 8 | 0.0 | 7 | 1 | 125.0 | 0 | 0.0 | 125.0 | 125.0 | 8 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | 1 | | 1 | | | 1 | 1 | | |
| Hospital/ Obstetrician | 993 | 36.4 | 987 | 6 | 6.0 | 12 | 12.2 | 18.1 | 9.1 | 492 |
| General Practitioner only | 2 | 0.1 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Hospital & G.P. combined | 1,719 | 63.1 | 1,708 | 11 | 6.4 | 12 | 7.0 | 13.4 | 9.9 | 858 |
| None | 10 | 0.4 | 8 | 2 | 200.0 | 3 | 375.0 | 500.0 | 500.0 | 5 |
| Not Stated | 2 | 0.1 | 0 | 2 | 1000.0 | 0 | 0.0 | 1000.0 | 1000.0 | 1 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Notes: Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. Deliveries under hospital schemes (including domino, early transfer home, planned community midwives, and midwifery-led units) and domiciliary births were included in hospital and G.P. combined care.

Throughout this section, 'Not Stated' values are not included in the calculation of percentages for discussion.

DURATION OF PREGNANCY AT FIRST ANTENATAL VISIT

Table 4.2 presents the time of first antenatal visit.

Two thirds of total maternities recorded their first antenatal visit within the first 12 weeks of pregnancy.

TABLE 4.2 Time of First Visit (weeks) to Doctor or Hospital during Pregnancy: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|-----------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| 0-12 | 48,912 | 65.8 | 48,741 | 171 | 3.5 | 78 | 1.6 | 5.1 | 3.5 | 47,974 |
| 13-19 | 19,688 | 26.5 | 19,609 | 79 | 4.0 | 40 | 2.0 | 6.0 | 4.0 | 19,371 |
| 20 and over | 4,874 | 6.6 | 4,839 | 35 | 7.2 | 27 | 5.6 | 12.7 | 8.7 | 4,783 |
| Not Stated | 903 | 1.2 | 891 | 12 | 13.3 | 8 | 9.0 | 22.1 | 18.9 | 880 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Birth | IS | | | | | | | | | |
| 0-12 | 47,047 | 65.7 | 46,882 | 165 | 3.5 | 63 | 1.3 | 4.8 | 3.4 | 47,047 |
| 13-19 | 19,056 | 26.6 | 18,986 | 70 | 3.7 | 34 | 1.8 | 5.5 | 3.6 | 19,056 |
| 20 and over | 4,690 | 6.5 | 4,658 | 32 | 6.8 | 23 | 4.9 | 11.7 | 7.7 | 4,690 |
| Not Stated | 858 | 1.2 | 849 | 9 | 10.5 | 6 | 7.1 | 17.5 | 14.0 | 858 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Birth | 5 | | | | | | | | | |
| 0-12 | 1,865 | 68.4 | 1,859 | 6 | 3.2 | 15 | 8.1 | 11.3 | 5.9 | 927 |
| 13-19 | 632 | 23.2 | 623 | 9 | 14.2 | 6 | 9.6 | 23.7 | 17.5 | 315 |
| 20 and over | 184 | 6.7 | 181 | 3 | 16.3 | 4 | 22.1 | 38.0 | 32.8 | 93 |
| Not Stated | 45 | 1.7 | 42 | 3 | 66.7 | 2 | 47.6 | 111.1 | 111.1 | 22 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Notes: Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

Although 77.0 per cent of total births were recorded as receiving combined antenatal care, the date of the first visit to the doctor was recorded as 'not known' for 33.9 per cent of these births. As a result of the absence of these data, the timing of first contact with health professionals within this category will reflect the date of the first hospital visit, even though this is likely to have been later than the first doctor visit. Consequently, caution should be exercised in interpreting the data presented here on the timing of the first visit to health services.

ADVANCE HOSPITAL BOOKINGS

• Over 99 per cent of total births were booked at time of admission to hospital (see Table 4.3).

TABLE 4.3 Advance Hospital Bookings: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|-----------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Booked | 73,705 | 99.3 | 73,438 | 267 | 3.6 | 142 | 1.9 | 5.5 | 3.7 | 72,353 |
| Not Booked | 500 | 0.7 | 470 | 30 | 60.0 | 11 | 23.4 | 82.0 | 76.5 | 483 |
| Not Stated | 4 | 0.0 | 4 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 4 |
| Total | 74,209 | 100 | 73,912 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.2 | 72,840 |
| Singleton Birth | S | | | | | | | | | |
| Booked | 71,017 | 99.3 | 70,766 | 251 | 3.5 | 120 | 1.7 | 5.2 | 3.5 | 71,017 |
| Not Booked | 462 | 0.6 | 437 | 25 | 54.1 | 6 | 13.7 | 67.1 | 61.0 | 462 |
| Not Stated | 4 | 0.0 | 4 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 4 |
| Total | 71,483 | 100 | 71,207 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.9 | 71,483 |
| Multiple Births | | | | | | | | | | |
| Booked | 2,688 | 98.6 | 2,672 | 16 | 6.0 | 22 | 8.2 | 14.1 | 8.6 | 1,336 |
| Not Booked | 38 | 1.4 | 33 | 5 | 131.6 | 5 | 151.5 | 263.2 | 263.2 | 21 |
| Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Notes: Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. Domiciliary births, of which there were 168, are excluded from this table. See Appendix H for detailed analysis.

MOTHER'S ANTENATAL LENGTH OF STAY

The average antenatal length of stay was less than one day (0.7 days) for singleton births and 2.2 days for multiple births.

Table 4.4 presents data on mother's antenatal length of stay.

- Just over 90 per cent of singleton births and 76.8 per cent of multiple births were delivered within a day of mother's admission to hospital.
- For total births, 1.8 per cent were delivered more than 5 days after mother's admission to hospital.

TABLE 4.4 Mother's Antenatal Length of Stay: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|----------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| 0-1 Days | 66,493 | 89.6 | 66,261 | 232 | 3.5 | 127 | 1.9 | 5.4 | 3.7 | 65,446 |
| 2 Days | 4,296 | 5.8 | 4,269 | 27 | 6.3 | 8 | 1.9 | 8.1 | 6.3 | 4,214 |
| 3-5 Days | 2,006 | 2.7 | 1,976 | 30 | 15.0 | 6 | 3.0 | 17.9 | 11.5 | 1,904 |
| 6-8 Days | 537 | 0.7 | 534 | 3 | 5.6 | 4 | 7.5 | 13.0 | 7.5 | 493 |
| 9-11 Days | 226 | 0.3 | 224 | 2 | 8.8 | 0 | 0.0 | 8.8 | 8.8 | 206 |
| 12-14 Days | 167 | 0.2 | 166 | 1 | 6.0 | 1 | 6.0 | 12.0 | 12.0 | 150 |
| More than 2 Weeks | 419 | 0.6 | 418 | 1 | 2.4 | 7 | 16.7 | 19.1 | 12.0 | 362 |
| Not Stated | 65 | 0.1 | 64 | 1 | 15.4 | 0 | 0.0 | 15.4 | 15.4 | 65 |
| Total | 74,209 | 100 | 73,912 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.2 | 72,840 |
| Singleton Births | C4 200 | 00.1 | C4 102 | 21.0 | 2.4 | 105 | 1.0 | F 0 | 2.4 | C4 200 |
| 0-1 Days | 64,399 | 90.1 | 64,183 | 216 | 3.4 | 105 | 1.6 | 5.0 | 3.4 | 64,399 |
| 2 Days | 4,136 | 5.8 | 4,110 | 26 | 6.3 | 7 | 1.7 | 8.0 | 6.3 | 4,136 |
| 3-5 Days | 1,803 | 2.5 | 1,776 | 27 | 15.0 | 5 | 2.8 | 17.7 | 11.2 | 1,803 |
| 6-8 Days | 452 | 0.6 | 450 | 2 | 4.4 | 3 | 6.7 | 11.1 | 6.7 | 452 |
| 9-11 Days | 186 | 0.3 | 184 | 2 | 10.8 | 0 | 0.0 | 10.8 | 10.8 | 186 |
| 12-14 Days | 134 | 0.2 | 133 | 1 | 7.5 | 1 | 7.5 | 14.9 | 14.9 | 134 |
| More than 2 Weeks | 308 | 0.4 | 307 | 1 | 3.2 | 5 | 16.3 | 19.5 | 16.3 | 308 |
| Not Stated | 65 | 0.1 | 64 | 1 | 15.4 | 0 | 0.0 | 15.4 | 15.4 | 65 |
| Total | 71,483 | 100 | 71,207 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.9 | 71,483 |
| Multiple Births | | | | | | | | | | |
| 0-1 Days | 2,094 | 76.8 | 2,078 | 16 | 7.6 | 22 | 10.6 | 18.1 | 13.4 | 1,047 |
| 2 Days | 160 | 5.9 | 159 | 1 | 6.3 | 1 | 6.3 | 12.5 | 6.3 | 78 |
| 3-5 Days | 203 | 7.4 | 200 | 3 | 14.8 | 1 | 5.0 | 19.7 | 14.9 | 101 |
| 6-8 Days | 85 | 3.1 | 84 | 1 | 11.8 | 1 | 11.9 | 23.5 | 11.9 | 41 |
| 9-11 Days | 40 | 1.5 | 40 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 20 |
| 12-14 Days | 33 | 1.2 | 33 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 16 |
| More than 2 Weeks | 111 | 4.1 | 111 | 0 | 0.0 | 2 | 18.0 | 18.0 | 0.0 | 54 |
| Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Notes: Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. Domiciliary births, of which there were 168, are excluded from this table. See Appendix H for detailed analysis.

MOTHER'S POSTNATAL LENGTH OF STAY

Notes:

Maternal postnatal length of stay can be influenced by factors such as method of delivery, post-delivery complications, neonatal mortality, and hospital discharge policies. Average maternal postnatal lengths of stay for singleton and multiple births were 2.5 and 4.1 days respectively.

Table 4.5 presents data on mother's postnatal length of stay.

- Over 55 per cent of maternities delivering singleton births remained in hospital for up to 2 days following delivery, compared to 13.1 per cent of maternities delivering multiple births.
- For total maternities 42.8 per cent of singleton births and 74.4 per cent of multiple births were discharged 3 to 5 days post delivery.
- For singleton births, 97.9 per cent of mothers were discharged home within 5 days of delivery compared to 87.5 per cent of multiple births.

TABLE 4.5 Mother's Postnatal Length of Stay: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|---------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| 0-1 Days | 16,920 | 22.8 | 16,754 | 166 | 9.8 | 60 | 3.6 | 13.4 | 9.1 | 16,882 |
| 2 Days | 22,822 | 30.8 | 22,753 | 69 | 3.0 | 33 | 1.5 | 4.5 | 3.2 | 22,684 |
| 3-5 Days | 32,639 | 44.0 | 32,590 | 49 | 1.5 | 52 | 1.6 | 3.1 | 2.0 | 31,622 |
| 6-8 Days | 1,516 | 2.0 | 1,507 | 9 | 5.9 | 7 | 4.6 | 10.6 | 7.9 | 1,368 |
| 9-11 Days | 208 | 0.3 | 208 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 185 |
| 12-14 Days | 54 | 0.1 | 54 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 51 |
| More than 2 Weeks | 35 | 0.0 | 33 | 2 | 57.1 | 1 | 30.3 | 85.7 | 85.7 | 34 |
| Not Stated | 15 | 0.0 | 13 | 2 | 133.3 | 0 | 0.0 | 133.3 | 133.3 | 14 |
| Total | 74,209 | 100 | 73,912 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.2 | 72,840 |
| Singleton Bir | ths | | | | | | | | | |
| 0-1 Days | 16,842 | 23.6 | 16,682 | 160 | 9.5 | 53 | 3.2 | 12.6 | 8.4 | 16,842 |
| 2 Days | 22,547 | 31.5 | 22,480 | 67 | 3.0 | 29 | 1.3 | 4.3 | 3.1 | 22,547 |
| 3-5 Days | 30,613 | 42.8 | 30,572 | 41 | 1.3 | 39 | 1.3 | 2.6 | 1.8 | 30,613 |
| 6-8 Days | 1,224 | 1.7 | 1,218 | 6 | 4.9 | 4 | 3.3 | 8.2 | 6.5 | 1,224 |
| 9-11 Days | 163 | 0.2 | 163 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 163 |
| 12-14 Days | 48 | 0.1 | 48 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 48 |
| More than 2 Weeks | 33 | 0.0 | 31 | 2 | 60.6 | 1 | 32.3 | 90.9 | 90.9 | 33 |
| Not Stated | 13 | 0.0 | 13 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 13 |
| Total | 71,483 | 100 | 71,207 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.9 | 71,483 |
| Multiple Birt | | | | | | | | | | |
| 0-1 Days | 78 | 2.9 | 72 | 6 | 76.9 | 7 | 97.2 | 166.7 | 155.8 | 40 |
| 2 Days | 275 | 10.1 | 273 | 2 | 7.3 | 4 | 14.7 | 21.8 | 14.7 | 137 |
| 3-5 Days | 2,026 | 74.3 | 2,018 | 8 | 3.9 | 13 | 6.4 | 10.4 | 5.5 | 1,009 |
| 6-8 Days | 292 | 10.7 | 289 | 3 | 10.3 | 3 | 10.4 | 20.5 | 13.8 | 144 |
| 9-11 Days | 45 | 1.7 | 45 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 22 |
| 12-14 Days | 6 | 0.2 | 6 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 3 |
| More than 2 Weeks | 2 | 0.1 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| Not Stated | 2 | 0.1 | 0 | 2 | 1000.0 | 0 | 0.0 | 1000.0 | 1000.0 | 1 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. Domiciliary births, of which there were 168, are excluded from this table. See Appendix H for detailed analysis.

Figures 4.1 and 4.2 present data on mother's postnatal length of stay for singleton and multiple births.

- The postnatal length of stay for mothers differed by method of delivery and plurality.
- Mother's postnatal length of stay was 2 days or less for over 77 per cent of singleton spontaneous deliveries compared to 37.3 per cent of multiple spontaneous deliveries.
- For Caesarean section deliveries, mother's postnatal length of stay was 3 to 5 days for 89.8 per cent of singleton deliveries compared to 81.3 per cent for multiple deliveries.

FIGURE 4.1Mother's Postnatal Length of Stay by Method of Delivery, Singleton Births

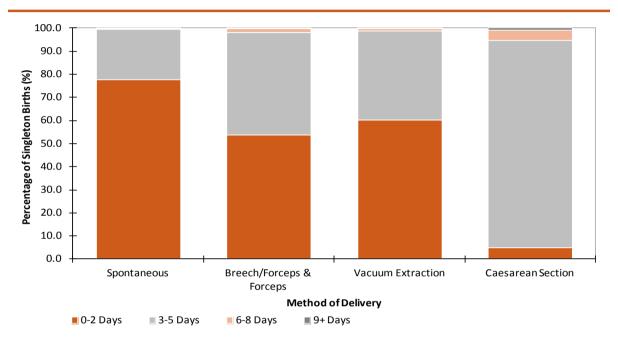
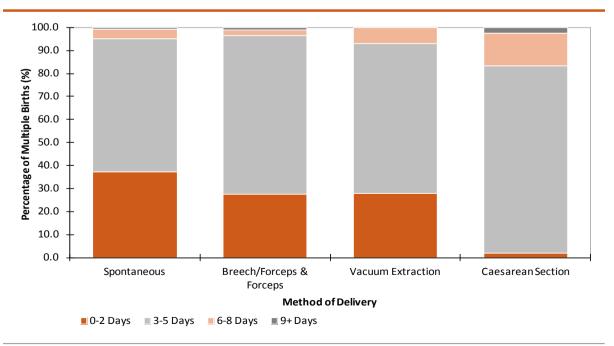


FIGURE 4.2 Mother's Postnatal Length of Stay by Method of Delivery, Multiple Births



The rubella immune status of the mother is presented in Table 4.6. Of total maternities, over 94 per cent were rubella immune.

TABLE 4.6Rubella: Immune Status of Mother, Numbers and Percentages

| Rubella Immunity | Number of Maternities | Per Cent |
|------------------|-----------------------|----------|
| Total Births | | |
| Immune | 68,868 | 94.3 |
| Not Immune | 2,729 | 3.7 |
| Not known | 1,411 | 1.9 |
| Total | 73,008 | 100 |
| Singleton Births | | |
| Immune | 67,580 | 94.3 |
| Not Immune | 2,684 | 3.7 |
| Not known | 1,387 | 1.9 |
| Total | 71,651 | 100 |
| Multiple Births | | |
| Immune | 1,288 | 94.9 |
| Not Immune | 45 | 3.3 |
| Not known | 24 | 1.8 |
| Total | 1,357 | 100 |

METHOD OF DELIVERY²²

METHOD OF DELIVERY BY MATERNITIES AND PARITY

Table 4.7a presents data on method of delivery for total maternities by parity.

- 56.6 per cent delivered spontaneously (41.2 per cent of primiparous and 66.8 per cent of multiparous women).
- When method of delivery is analysed by plurality, almost two thirds of mothers (64.2 per cent) having a multiple birth delivered by Caesarean section, compared with just over one quarter (26.6 per cent) of maternities delivering singleton births.
- As well as recording a higher proportion of Caesarean sections (28.6 per cent), primiparous women also recorded a higher proportion of births by instrumental delivery (either breech/forceps, forceps or vacuum extraction) at 30.2 per cent compared to multiparous women (6.6 per cent) (see Figure 4.3).

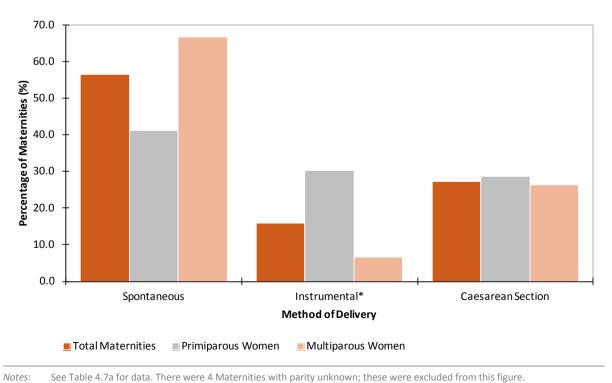
Throughout this section, method of delivery recorded as 'other specified & combined' are not included in figures presenting data on method of delivery

TABLE 4.7aMethod of Delivery for Total Maternities by Parity

| | Total Ma | ternities | Materr Primiparou | 1.77 | Maternities - Multiparous Women | | |
|----------------------------|----------|-----------|----------------------|----------|------------------------------------|----------|--|
| | Number | Per Cent | Number | Per Cent | Number | Per Cent | |
| Total Births | | | | | | | |
| Spontaneous | 41,330 | 56.6 | 12,005 | 41.2 | 29,325 | 66.8 | |
| Breech/Forceps | 326 | 0.4 | 173 | 0.6 | 153 | 0.3 | |
| Forceps | 3,006 | 4.1 | 2,505 | 8.6 | 501 | 1.1 | |
| Vacuum extraction | 8,400 | 11.5 | 6,108 | 21.0 | 2,292 | 5.2 | |
| Caesarean section | 19,917 | 27.3 | 8,344 | 28.6 | 11,573 | 26.4 | |
| Other specified & combined | 25 | 0.0 | 0 | 0.0 | 25 | 0.1 | |
| Total | 73,004 | 100 | 29,135 | 100 | 43,869 | 100 | |
| Singleton Births | | | | | · | | |
| Spontaneous | 40,978 | 57.2 | 11,922 | 41.8 | 29,056 | 67.3 | |
| Breech/Forceps | 310 | 0.4 | 162 | 0.6 | 148 | 0.3 | |
| Forceps | 2,964 | 4.1 | 2,473 | 8.7 | 491 | 1.1 | |
| Vacuum extraction | 8,324 | 11.6 | 6,053 | 21.2 | 2,271 | 5.3 | |
| Caesarean section | 19,046 | 26.6 | 7,891 | 27.7 | 11,155 | 25.9 | |
| Other specified & combined | 25 | 0.0 | 0 | 0.0 | 25 | 0.1 | |
| Total | 71,647 | 100 | 28,501 | 100 | 43,146 | 100 | |
| Multiple Births | | | | | | | |
| Spontaneous | 352 | 25.9 | 83 | 13.1 | 269 | 37.2 | |
| Breech/Forceps | 16 | 1.2 | 11 | 1.7 | 5 | 0.7 | |
| Forceps | 42 | 3.1 | 32 | 5.0 | 10 | 1.4 | |
| Vacuum extraction | 76 | 5.6 | 55 | 8.7 | 21 | 2.9 | |
| Caesarean section | 871 | 64.2 | 453 | 71.5 | 418 | 57.8 | |
| Other specified & combined | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Total | 1,357 | 100 | 634 | 100 | 723 | 100 | |

Note: There were 4 Maternities with parity unknown; these were excluded from this table.

FIGURE 4.3Percentage Distribution of Maternities by Method of Delivery



See Table 4.7a for data. There were 4 Maternities with parity unknown; these were excluded from this figure. *Instrumental delivery includes breech/forceps, forceps or vacuum extraction.

METHOD OF DELIVERY BY BIRTHS AND PARITY

Table 4.7b presents births by method of delivery and parity.

• Spontaneous births accounted for the majority of births to both primiparous and multiparous women at 40.6 per cent and 66.1 percent respectively.

TABLE 4.7b Method of Delivery by Parity: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, and Mortality Rates

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* |
|-----------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|
| Total Births | | | | | | | | | |
| Spontaneous | 41,568 | 55.9 | 41,369 | 199 | 4.8 | 62 | 1.5 | 6.3 | 4.7 |
| Breech/Forceps | 425 | 0.6 | 380 | 45 | 105.9 | 16 | 42.1 | 143.5 | 90.0 |
| Forceps | 3,026 | 4.1 | 3,020 | 6 | 2.0 | 5 | 1.7 | 3.6 | 2.3 |
| Vacuum extraction | 8,492 | 11.4 | 8,488 | 4 | 0.5 | 10 | 1.2 | 1.6 | 0.9 |
| Caesarean section | 20,837 | 28.0 | 20,795 | 42 | 2.0 | 58 | 2.8 | 4.8 | 2.9 |
| Other specified & combined | 25 | 0.0 | 25 | 0 | 0.0 | 1 | 40.0 | 40.0 | 40.0 |
| Total | 74,373 | 100 | 74,077 | 296 | 4.0 | 152 | 2.1 | 6.0 | 4.1 |
| Births to Primiparous Women | | | | | | | | | |
| Spontaneous | 12,078 | 40.6 | 11,979 | 99 | 8.2 | 29 | 2.4 | 10.6 | 8.5 |
| Breech/Forceps | 210 | 0.7 | 191 | 19 | 90.5 | 7 | 36.6 | 123.8 | 93.6 |
| Forceps | 2,517 | 8.5 | 2,513 | 4 | 1.6 | 4 | 1.6 | 3.2 | 2.0 |
| Vacuum extraction | 6,157 | 20.7 | 6,154 | 3 | 0.5 | 6 | 1.0 | 1.5 | 1.0 |
| Caesarean section | 8,812 | 29.6 | 8,795 | 17 | 1.9 | 18 | 2.0 | 4.0 | 2.3 |
| Other specified & combined | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 29,774 | 100 | 29,632 | 142 | 4.8 | 64 | 2.2 | 6.9 | 5.1 |
| Births to Multiparous Women | | | | | | | | | |
| Spontaneous | 29,490 | 66.1 | 29,390 | 100 | 3.4 | 33 | 1.1 | 4.5 | 3.1 |
| Breech/Forceps | 215 | 0.5 | 189 | 26 | 120.9 | 9 | 47.6 | 162.8 | 86.3 |
| Forceps | 509 | 1.1 | 507 | 2 | 3.9 | 1 | 2.0 | 5.9 | 3.9 |
| Vacuum extraction | 2,335 | 5.2 | 2,334 | 1 | 0.4 | 4 | 1.7 | 2.1 | 0.9 |
| Caesarean section | 12,025 | 27.0 | 12,000 | 25 | 2.1 | 40 | 3.3 | 5.4 | 3.4 |
| Other specified & combined | 25 | 0.1 | 25 | 0 | 0.0 | 1 | 40.0 | 40.0 | 40.0 |
| Total | 44,599 | 100 | 44,445 | 154 | 3.5 | 88 | 2.0 | 5.4 | 3.5 |

Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births Notes: and stillbirths. For early neonatal deaths, rates are calculated on total live births. There were 4 Maternities with parity unknown; these were excluded from this table. See Appendix G, Table G15 for a breakdown of Method of Delivery by Parity for Total, Singleton and Multiple Births.

METHOD OF DELIVERY BY BIRTHS AND PLURALITY

Table 4.8a presents data on method of delivery for total births.

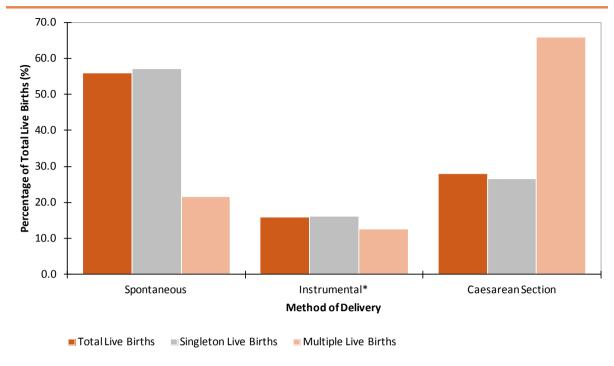
- There were 20,796 live births delivered by Caesarean section, representing 28.1 per cent of total live births, 26.6 per cent of live singleton births and 65.8 per cent of live multiple births.
- Almost 56 per cent of total live births delivered spontaneously (57.1 per cent of live singleton births and 21.5 per cent of live multiple births) (see Figure 4.4).
- Just over 16 per cent of total live births were born by instrumental delivery (either breech/forceps, forceps or vacuum extraction) with higher percentages for live singleton births (16.2 per cent) compared with live multiple births (12.7 per cent).

TABLE 4.8aMethod of Delivery: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|----------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Spontaneous | 41,570 | 55.9 | 41,371 | 199 | 4.8 | 63 | 1.5 | 6.3 | 4.7 | 41,332 |
| Breech / Forceps | 426 | 0.6 | 380 | 46 | 108.0 | 16 | 42.1 | 145.5 | 92.3 | 327 |
| Forceps | 3,026 | 4.1 | 3,020 | 6 | 2.0 | 5 | 1.7 | 3.6 | 2.3 | 3,006 |
| Vacuum extraction | 8,492 | 11.4 | 8,488 | 4 | 0.5 | 10 | 1.2 | 1.6 | 0.9 | 8,400 |
| Caesarean section | 20,838 | 28.0 | 20,796 | 42 | 2.0 | 58 | 2.8 | 4.8 | 2.9 | 19,918 |
| Other specified & combined | 25 | 0.0 | 25 | 0 | 0.0 | 1 | 40.0 | 40.0 | 40.0 | 25 |
| Total | 74,377 | 100 | 74,080 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.1 | 73,008 |
| Singleton Births | | | | | | | | | | |
| Spontaneous | 40,980 | 57.2 | 40,789 | 191 | 4.7 | 52 | 1.3 | 5.9 | 4.4 | 40,980 |
| Breech / Forceps | 311 | 0.4 | 267 | 44 | 141.5 | 12 | 44.9 | 180.1 | 111.5 | 311 |
| Forceps | 2,964 | 4.1 | 2,958 | 6 | 2.0 | 3 | 1.0 | 3.0 | 2.0 | 2,964 |
| Vacuum extraction | 8,324 | 11.6 | 8,320 | 4 | 0.5 | 10 | 1.2 | 1.7 | 1.0 | 8,324 |
| Caesarean section | 19,047 | 26.6 | 19,016 | 31 | 1.6 | 48 | 2.5 | 4.1 | 2.6 | 19,047 |
| Other specified & combined | 25 | 0.0 | 25 | 0 | 0.0 | 1 | 40.0 | 40.0 | 40.0 | 25 |
| Total | 71,651 | 100 | 71,375 | 276 | 3.9 | 126 | 1.8 | 5.6 | 3.8 | 71,651 |
| Multiple Births | | | | | | | | | | |
| Spontaneous | 590 | 21.6 | 582 | 8 | 13.6 | 11 | 18.9 | 32.2 | 25.6 | 352 |
| Breech / Forceps | 115 | 4.2 | 113 | 2 | 17.4 | 4 | 35.4 | 52.2 | 43.9 | 16 |
| Forceps | 62 | 2.3 | 62 | 0 | 0.0 | 2 | 32.3 | 32.3 | 16.4 | 42 |
| Vacuum extraction | 168 | 6.2 | 168 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 76 |
| Caesarean section | 1,791 | 65.7 | 1,780 | 11 | 6.1 | 10 | 5.6 | 11.7 | 6.7 | 871 |
| Other specified & combined | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 2,726 | 100 | 2,705 | 21 | 7.7 | 27 | 10.0 | 17.6 | 12.2 | 1,357 |

Note: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

FIGURE 4.4 Percentage Distribution of Total Live Births by Method of Delivery



Notes:

See Table 4.8a for data.

*Instrumental delivery includes breech/forceps, forceps or vacuum extraction.

METHOD OF DELIVERY BY MATERNAL AGE

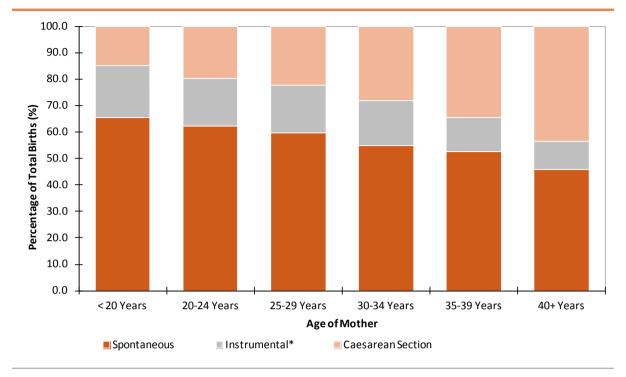
Table 4.8b presents method of delivery by maternal age.

- Caesarean section rates ranged from 15.1 per cent for mothers aged less than 20 years to 43.6 per cent for mothers aged 40 years and over.
- The percentage of babies delivered by spontaneous delivery declined with age and was reported at 65.5 per cent for mothers aged less than 20 years compared to 45.9 per cent to mothers aged 40 years and older (see Figure 4.5).

TABLE 4.8b Method of Delivery by Maternal Age

| | | | | Age of I | Mother | | | |
|----------------------------|-------------------|----------------|----------------|----------------|----------------|----------------------|---------------|--------|
| Frequency Col. Per Cent | Under 20 Years | 20-24 Years | 25-29 Years | 30-34 Years | 35-39 Years | 40 Years and Over | Not Stated | Total |
| Spontaneous | 1,114 | 4,607 | 9,996 | 14,700 | 9,364 | 1,789 | 0 | 41,570 |
| | 65.5 | 62.3 | 59.7 | 54.8 | 52.6 | 45.9 | 0.0 | 55.9 |
| Breech/Forceps | 7 | 49 | 105 | 144 | 101 | 20 | 0 | 426 |
| | 0.4 | 0.7 | 0.6 | 0.5 | 0.6 | 0.5 | 0.0 | 0.6 |
| Forceps | 76 | 315 | 779 | 1,222 | 536 | 98 | 0 | 3,026 |
| | 4.5 | 4.3 | 4.7 | 4.6 | 3.0 | 2.5 | 0.0 | 4.1 |
| Vacuum extraction | 247 | 968 | 2,139 | 3,203 | 1,644 | 290 | 1 | 8,492 |
| | 14.5 | 13.1 | 12.8 | 11.9 | 9.2 | 7.4 | 100.0 | 11.4 |
| Caesarean section | 256 | 1,452 | 3,721 | 7,565 | 6,147 | 1,697 | 0 | 20,838 |
| | 15.1 | 19.6 | 22.2 | 28.2 | 34.5 | 43.6 | 0.0 | 28.0 |
| Other specified & | 0 | 2 | 7 | 12 | 3 | 1 | 0 | 25 |
| combined | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 1,700 | 7,393 | 16,747 | 26,846 | 17,795 | 3,895 | 1 | 74,377 |
| | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

FIGURE 4.5Percentage of Total Births by Method of Delivery and Age of Mother



Notes:

See Table 4.8b for data.

* Instrumental delivery includes breech/forceps, forceps or vacuum extraction.

DISTRIBUTION OF BIRTHS BY SIZE OF MATERNITY UNIT

Analysis of births by size of maternity unit is based on births registered by either maternity hospitals or hospitals with dedicated maternity units. Table 4.9 presents data on the size of maternity units.

- Just over 44 per cent of total births took place in 15 maternity units accommodating between 1,000 and 3,999 births each annually.
- Four maternity units each accommodated 8,000 or more births accounting for almost 49 per cent of total births (see Figure 4.6).

TABLE 4.9Size of Maternity Unit (Number of Live Births and Stillbirths Annually) by Number of Units: Total Births, Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates

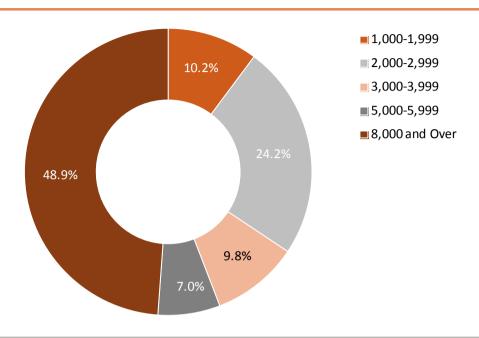
| | Number of Units | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* |
|---------------|--------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|
| 1000-1999 | 5 | 7,586 | 10.2 | 7,556 | 30 | 4.0 | 14 | 1.9 | 5.8 | 4.1 |
| 2000-2999 | 8 | 17,956 | 24.2 | 17,880 | 76 | 4.2 | 22 | 1.2 | 5.5 | 3.9 |
| 3000-3999 | 2 | 7,238 | 9.8 | 7,213 | 25 | 3.5 | 17 | 2.4 | 5.8 | 4.3 |
| 5000-5999 | 1 | 5,164 | 7.0 | 5,133 | 31 | 6.0 | 15 | 2.9 | 8.9 | 5.8 |
| 8000 and Over | 4 | 36,265 | 48.9 | 36,130 | 135 | 3.7 | 85 | 2.4 | 6.1 | 4.0 |
| Total | 20 | 74,209 | 100 | 73,912 | 297 | 4.0 | 153 | 2.1 | 6.1 | 4.2 |

Notes:

^{*} Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

There were 20 maternity units in Ireland in 2011, each of which delivered over 1,000 births per annum. No unit delivered between 4,000 and 4,999 or 6,000 and 7,999 births.

FIGURE 4.6 Percentage Distribution of Births by Size of Maternity Unit, Total Births



Notes: See Table 4.9 for data. Percentages are subject to rounding

The size of the unit refers to the number of live births and stillbirths occurring in 2011..

INTER-HOSPITAL TRANSFER OF INFANTS

Table 4.10 presents data on inter-hospital transfer of infants.

- Over 99 per cent of infants remained in the hospital in which they were born, just under 1 per cent of live births were transferred to another hospital for medical reasons.
- Less than 1 per cent of singleton births were transferred compared to 2.6 per cent of multiple births being transferred for medical reasons.

TABLE 4.10 Inter-Hospital Transfer of Infants

Notes:

| | Live Births | Per Cent Live Births | Early Neonatal Deaths | Early Neonatal Mortality Rate* |
|------------------|-------------|----------------------|-----------------------|--------------------------------|
| Total Births | | | | |
| Transferred | 499 | 0.7 | 26 | 52.1 |
| Not Transferred | 73,408 | 99.3 | 127 | 1.7 |
| Not Stated | 5 | 0.0 | 0 | 0.0 |
| Total | 73,912 | 100 | 153 | 2.1 |
| Singleton Births | | | | |
| Transferred | 428 | 0.6 | 24 | 56.1 |
| Not Transferred | 70,774 | 99.4 | 102 | 1.4 |
| Not Stated | 5 | 0.0 | 0 | 0.0 |
| Total | 71,207 | 100 | 126 | 1.8 |
| Multiple Births | | | | |
| Transferred | 71 | 2.6 | 2 | 28.2 |
| Not Transferred | 2,634 | 97.4 | 25 | 9.5 |
| Not Stated | 0 | 0.0 | 0 | 0.0 |
| Total | 2,705 | 100 | 27 | 10.0 |

Rate per 1,000 births. For early neonatal deaths, rates are calculated on total live births. Domiciliary births, of which there were 168 live births, are excluded from this table. See Appendix H for detailed analysis.

INFANT'S LENGTH OF STAY

Table 4.11 presents data relating to infant's length of stay in hospital.

- Over 54 per cent of singleton live births were discharged from hospital within 2 days, compared to just 9.9 per cent of multiple births (see Figure 4.7).
- Over 95 per cent of singleton live births were discharged from hospital within 5 days of birth, compared to 66.3 per cent of multiple live births.
- 5.3 per cent of total live births had a length of stay of 6 or more days.

TABLE 4.11Infant's Length of Stay (days) in Hospital, Live Births

| | Live Births | Per Cent Live Births |
|------------------|---------------|-----------------------|
| Total Births | Live bil tils | rei Cent Live diffiis |
| 0-2 | 38,940 | 52.8 |
| 3-5 | 30,800 | 41.8 |
| 6-10 | 2,144 | 2.9 |
| 11-28 | 1,282 | 1.7 |
| 29 or more | 509 | 0.7 |
| Not Stated | 84 | 0.1 |
| Total | 73,759 | 100 |
| Singleton Births | | |
| 0-2 | 38,677 | 54.4 |
| 3-5 | 29,305 | 41.2 |
| 6-10 | 1,802 | 2.5 |
| 11-28 | 881 | 1.2 |
| 29 or more | 359 | 0.5 |
| Not Stated | 57 | 0.1 |
| Total | 71,081 | 100 |
| Multiple Births | | |
| 0-2 | 263 | 9.8 |
| 3-5 | 1,495 | 55.8 |
| 6-10 | 342 | 12.8 |
| 11-28 | 401 | 15.0 |
| 29 or more | 150 | 5.6 |
| Not Stated | 27 | 1.0 |
| Total | 2,678 | 100 |

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

60.0 50.0 Percentage of Total Live Births (%) 40.0 30.0 20.0 10.0 0.0 0-2 3-5 6-10 11-28 29 or more

FIGURE 4.7 Percentage Distribution of Total Live Births by Infant's Length of Stay

Note: See Table 4.11 for data. 'Not Stated' values are not included in the calculation of percentages.

■ Singleton Births

INFANT'S TYPE OF FEEDING

■ Total Births

Type of feeding is recorded at the time of discharge from hospital or by midwife attending a domiciliary birth. The presentation of type of feeding in this report is based on live births only and excludes early neonatal deaths.

Multiple Births

Infant's Length of Stay (Days)

Table 4.12 presents type of feeding by age of mother.

- At 46.6 per cent, a slightly higher proportion of total births were breastfed²³ compared to 44.8 per cent reporting artificial feeding.
- Artificial feeding is more common for multiple births (52.6 per cent for multiple births compared to 44.6 per cent for singleton births) while breastfeeding is more common for singleton births (47.3 per cent for singleton births compared to 27.4 per cent for multiple births).
- Breastfeeding was more common than artificial feeding amongst mothers aged between 25 years or more, with the highest proportion in the 30–34 year age group for whom 50.2 percent reported breastfeeding (see Figure 4.8).
- One-fifth (20.6 per cent) of infants born to mothers under 20 were exclusively breastfed.

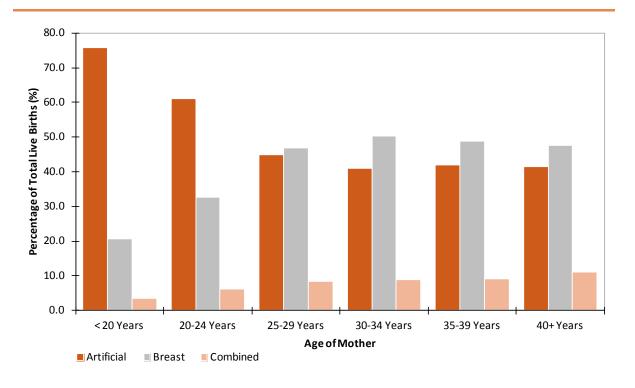
Throughout this section, discussion of breastfeeding refers to exclusive breastfeeding only.

TABLE 4.12Age of Mother by Infant's Type of Feeding, Numbers and Percentages, Total Live Births

| | | | | | | | Ту | pe of Feeding | | | | | | | |
|--|------------|--------|--------------|---------------|--------|------------|--------|-----------------|---------------|--------|------------|--------|-----------------|---------------|-------|
| | | | Total Births | | | | S | ingleton Births | | | | N | Iultiple Births | | |
| Frequency Row Per Cent Col. Per Cent | Artificial | Breast | Combined | Not Stated | Total | Artificial | Breast | Combined | Not Stated | Total | Artificial | Breast | Combined | Not Stated | Total |
| Under 15 | 4 | 4 | 0 | 0 | 8 | 4 | 4 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 |
| Years | 50.0 | 50.0 | 0.0 | 0.0 | 100.0 | 50.0 | 50.0 | 0.0 | 0.0 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15-19 Years | 1,276 | 344 | 59 | 0 | 1,679 | 1,256 | 342 | 59 | 0 | 1,657 | 20 | 2 | 0 | 0 | 22 |
| | 76.0 | 20.5 | 3.5 | 0.0 | 100.0 | 75.8 | 20.6 | 3.6 | 0.0 | 100.0 | 90.9 | 9.1 | 0.0 | 0.0 | 100 |
| | 3.8 | 1.0 | 0.9 | 0.0 | 2.3 | 4.0 | 1.0 | 1.0 | 0.0 | 2.3 | 1.4 | 0.3 | 0.0 | 0.0 | 0.8 |
| 20-24 Years | 4,486 | 2,386 | 459 | 1 | 7,332 | 4,433 | 2,361 | 442 | 1 | 7,237 | 53 | 25 | 17 | 0 | 95 |
| | 61.2 | 32.5 | 6.3 | 0.0 | 100.0 | 61.3 | 32.6 | 6.1 | 0.0 | 100.0 | 55.8 | 26.3 | 17.9 | 0.0 | 100 |
| | 13.5 | 6.9 | 7.2 | 33.3 | 9.9 | 14.0 | 7.0 | 7.6 | 33.3 | 10.2 | 3.8 | 3.4 | 3.2 | 0.0 | 3.5 |
| 25-29 Years | 7,463 | 7,820 | 1,375 | 0 | 16,658 | 7,235 | 7,689 | 1,295 | 0 | 16,219 | 228 | 131 | 80 | 0 | 439 |
| | 44.8 | 46.9 | 8.3 | 0.0 | 100.0 | 44.6 | 47.4 | 8.0 | 0.0 | 100.0 | 51.9 | 29.8 | 18.2 | 0.0 | 100 |
| | 22.5 | 22.7 | 21.7 | 0.0 | 22.5 | 22.8 | 22.8 | 22.3 | 0.0 | 22.8 | 16.2 | 17.8 | 15.0 | 0.0 | 16.4 |
| 30-34 Years | 10,915 | 13,394 | 2,389 | 1 | 26,699 | 10,415 | 13,117 | 2,189 | 1 | 25,722 | 500 | 277 | 200 | 0 | 977 |
| | 40.9 | 50.2 | 8.9 | 0.0 | 100.0 | 40.5 | 51.0 | 8.5 | 0.0 | 100.0 | 51.2 | 28.4 | 20.5 | 0.0 | 100 |
| | 32.9 | 38.9 | 37.7 | 33.3 | 36.1 | 32.8 | 38.9 | 37.7 | 33.3 | 36.1 | 35.5 | 37.7 | 37.4 | 0.0 | 36.5 |
| 35-39 Years | 7,413 | 8,658 | 1,629 | 0 | 17,700 | 6,955 | 8,426 | 1,454 | 0 | 16,835 | 458 | 232 | 175 | 0 | 865 |
| | 41.9 | 48.9 | 9.2 | 0.0 | 100.0 | 41.3 | 50.1 | 8.6 | 0.0 | 100.0 | 52.9 | 26.8 | 20.2 | 0.0 | 100 |
| | 22.4 | 25.1 | 25.7 | 0.0 | 23.9 | 21.9 | 25.0 | 25.1 | 0.0 | 23.6 | 32.5 | 31.6 | 32.7 | 0.0 | 32.3 |
| 40-44 Years | 1,532 | 1,754 | 401 | 1 | 3,688 | 1,408 | 1,694 | 345 | 1 | 3,448 | 124 | 60 | 56 | 0 | 240 |
| | 41.5 | 47.6 | 10.9 | 0.0 | 100.0 | 40.8 | 49.1 | 10.0 | 0.0 | 100.0 | 51.7 | 25.0 | 23.3 | 0.0 | 100 |
| | 4.6 | 5.1 | 6.3 | 33.3 | 5.0 | 4.4 | 5.0 | 5.9 | 33.3 | 4.8 | 8.8 | 8.2 | 10.5 | 0.0 | 9.0 |
| 45 Years and | 60 | 80 | 22 | 0 | 162 | 35 | 72 | 15 | 0 | 122 | 25 | 8 | 7 | 0 | 40 |
| Over | 37.0 | 49.4 | 13.6 | 0.0 | 100.0 | 28.7 | 59.0 | 12.3 | 0.0 | 100.0 | 62.5 | 20.0 | 17.5 | 0.0 | 100 |
| | 0.2 | 0.2 | 0.3 | 0.0 | 0.2 | 0.1 | 0.2 | 0.3 | 0.0 | 0.2 | 1.8 | 1.1 | 1.3 | 0.0 | 1.5 |
| Not Stated | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 100.0 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 33,150 | 34,440 | 6,334 | 3 | 73,927 | 31,742 | 33,705 | 5,799 | 3 | 71,249 | 1,408 | 735 | 535 | 0 | 2,678 |
| | 44.8 | 46.6 | 8.6 | 0.0 | 100.0 | 44.6 | 47.3 | 8.1 | 0.0 | 100.0 | 52.6 | 27.4 | 20.0 | 0.0 | 100 |
| | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 0.0 | 100 |

Note: This table excludes Early Neonatal Deaths.

FIGURE 4.8 Percentage Distribution of Infant's Type of Feeding by Age of Mother, Total Live Births

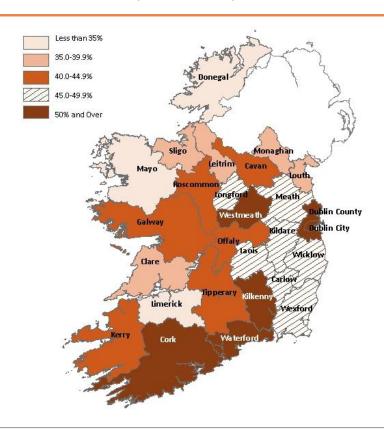


See Table 4.12 for data. 'Not Stated' values are not included in the calculation of percentages. Note:

Figure 4.9 presents the prevalence of exclusive breastfeeding by geographic location.

- Infants born to mothers resident in Waterford recorded the highest rate of breastfeeding at 56.3 per cent, closely followed by Dublin County and Cork (53.9 per cent and 52.9 per cent respectively).
- Other counties reporting exclusive breastfeeding rates of over 50 per cent include Kilkenny,
 Westmeath and Dublin City.
- Eastern and South-Eastern counties recorded exclusive breastfeeding rates in line with or above the national breastfeeding rate of 46.6 per cent.

FIGURE 4.9Percentage Distribution of Breastfed Infants by Mother's County of Residence, Total Live Births



See Appendix G, Table G16 for data. 'Not Stated' values are not included in the calculation of percentages. Example: Of all live births to mothers resident in Dublin City 50.3 per cent were breastfed.

Notes:

Table 4.13 presents data on type of feeding by mother's occupation.

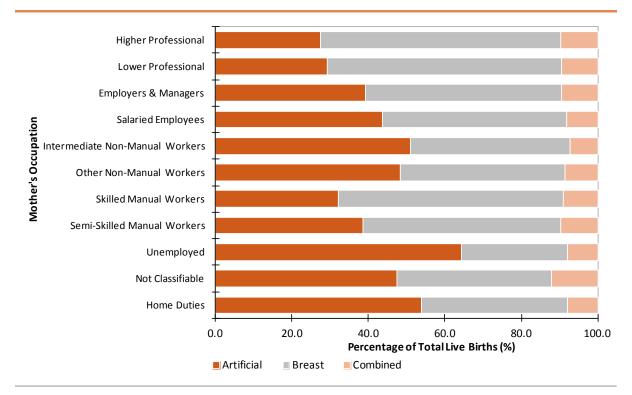
- Breastfeeding was most common among mothers in 'higher professional' occupations (63.0 per cent) and least common among 'unemployed' mothers (27.8 per cent).
- Artificial feeding was most common amongst the 'unemployed' mothers with a rate of 64.3 per cent and those whose occupation was recorded as 'home duties' (53.9 per cent).
- Lower rates of artificial feeding were found amongst 'higher professionals' (27.4 per cent) and 'lower professionals' (29.3 per cent) (see Figure 4.10).

TABLE 4.13 Mother's Occupation by Infant's Type of Feeding, Total Live Births

| | | 1 | Type of Feeding | | |
|--|---------------|-------------|-----------------|------------|--------------|
| Frequency | Artificial | Breast | Combined | Not Stated | Total |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Farmers & Farm Managers | 25 | 31 | 6 | 0 | 62 |
| Turriers & Turri Mundgers | 40.3 | 50.0 | 9.7 | 0.0 | 100 |
| | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| Other Agricultural Occupations & Fishermen | 14 | 46 | 9 | 0 | 69 |
| | 20.3 | 66.7 | 13.0 | 0.0 | 100 |
| | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |
| Higher Professional | 1,368 | 3,143 | 479 | 0 | 4,990 |
| | 27.4 | 63.0 | 9.6 | 0.0 | 100 |
| | 4.1 | 9.1 | 7.6 | 0.0 | 6.7 |
| Lower Professional | 3,525 | 7,366 | 1,127 | 0 | 12,018 |
| | 29.3 | 61.3 | 9.4 | 0.0 | 100 |
| Formlesson Q Managemen | 10.6 | 21.4 | 17.8 | 0.0 | 16.3 |
| Employers & Managers | 2,117 | 2,779 | 510 | 0 | 5,406 |
| | 39.2 6.4 | 51.4 8.1 | 9.4 8.1 | 0.0 0.0 | 100 7.3 |
| Salaried Employees | 439 | 482 | 82 | 0.0 | 1.003 |
| Salarieu Employees | 43.8 | 48.1 | 8.2 | 0.0 | 1,003 |
| | 1.3 | 1.4 | 1.3 | 0.0 | 1.4 |
| Intermediate Non-Manual Workers | 7,872 | 6.424 | 1,117 | 0.0 | 15.413 |
| intermediate Non Mandai Workers | 51.1 | 41.7 | 7.2 | 0.0 | 100 |
| | 23.7 | 18.7 | 17.6 | 0.0 | 20.8 |
| Other Non-Manual Workers | 4,848 | 4,340 | 849 | 1 | 10,038 |
| | 48.3 | 43.2 | 8.5 | 0.0 | 100 |
| | 14.6 | 12.6 | 13.4 | 33.3 | 13.6 |
| Skilled Manual Workers | 368 | 674 | 103 | 0 | 1,145 |
| | 32.1 | 58.9 | 9.0 | 0.0 | 100 |
| | 1.1 | 2.0 | 1.6 | 0.0 | 1.5 |
| Semi-Skilled Manual Workers | 889 | 1,193 | 222 | 0 | 2,304 |
| | 38.6 | 51.8 | 9.6 | 0.0 | 100 |
| | 2.7 | 3.5 | 3.5 | 0.0 | 3.1 |
| Unskilled Manual Workers | 3 | 6 | 0 | 0 | 9 |
| | 33.3 | 66.7 | 0.0 | 0.0 | 100 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Unemployed | 1,982 64.3 | 858 27.8 | 243 7.9 | 1 0.0 | 3,084 100 |
| | 6.0 | 27.8 | 7.9 3.8 | 33.3 | 4.2 |
| Not Classifiable | 1,358 | 1,155 | 348 | 33.3 | 2,862 |
| NOT Classifiable | 47.4 | 40.4 | 12.2 | 0.0 | 100 |
| | 4.1 | 3.4 | 5.5 | 33.3 | 3.9 |
| Home Duties | 8,204 | 5,816 | 1,193 | 0 | 15,213 |
| | 53.9 | 38.2 | 7.8 | 0.0 | 100 |
| | 24.7 | 16.9 | 18.8 | 0.0 | 20.6 |
| Not Stated | 138 | 127 | 46 | 0 | 311 |
| | 44.4 | 40.8 | 14.8 | 0.0 | 100 |
| | 0.4 | 0.4 | 0.7 | 0.0 | 0.4 |
| Total | 33,150 | 34,440 | 6,334 | 3 | 73,927 |
| | 44.8 | 46.6 | 8.6 | 0.0 | 100 |
| | 100 | 100 | 100 | 100 | 100 |

See Appendix C for a description of the classification system for occupation. Notes: This table excludes Early Neonatal Deaths.

FIGURE 4.10Percentage Distribution of Infant's Type of Feeding by Mother's Occupation, Total Live Births

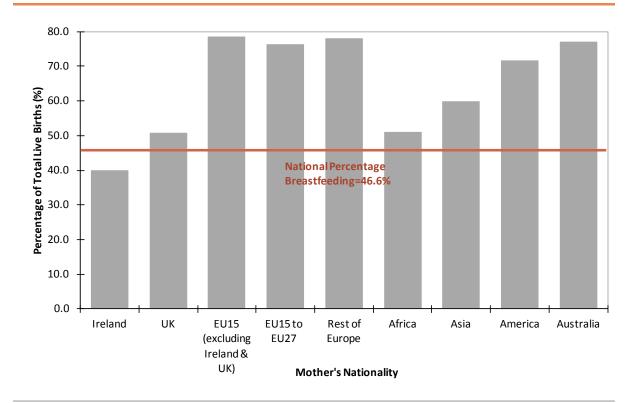


Notes: See Table 4.13 for data. 'Not Stated' values are not included in the calculation of percentages. Categories where percentages would be based on <100 births are not included.

Figure 4.11 presents the prevalence of exclusive breastfeeding by mother's nationality.

- At 39.8 per cent, births to mothers from Ireland record the lowest proportion of breastfeeding, whilst births to mothers from the EU15 (excluding Ireland & UK) report the highest proportion of breastfeeding at 78.4 per cent.
- Births to mothers from the Rest of Europe, Australia and the EU15 to EU27 each record breastfeeding percentages of over 75 per cent.
- Similar breastfeeding rates are reported for mothers from Africa and the UK at just over 50 per cent.

FIGURE 4.11 Percentage Distribution of Breastfed Infants by Mother's Nationality, Total Live Births



See Appendix G, Table G17 for data. 'Not Stated' values are not included in the calculation of percentages. Notes: Categories where percentages would be based on <100 live births are not included.

SECTION FIVE

PERINATAL OUTCOMES

INTRODUCTION

This section presents a detailed review of aspects of perinatal outcomes for the infant. Cause of death is examined according to the guidelines set out by the WHO in the International Classification of Diseases (ICD-10). ²⁴ A detailed description of cause of death classification and coding rules applied is available in Appendix D.

Of the 74,377 births recorded by the NPRS in 2011, 297 were stillbirths and 153 were early neonatal deaths, giving a total of 450 perinatal deaths and a perinatal mortality rate of 6.1 per 1,000 live births and stillbirths.

The number of perinatal deaths are broken down by type of death (antepartum and intrapartum stillbirths and early neonatal deaths), with tables presenting data in relation to

- birthweight distribution by parity and cause of death
- gestational age at delivery and cause of death
- cause of death categorised by ICD-10 codes
- age at death for early neonatal deaths
- post-mortem examinations.

MORTALITY BY BIRTHWEIGHT AND PARITY

Table 5.1 presents mortality rates by birthweight and parity. ^{25,26}

- Approximately 71 per cent of total perinatal deaths weighed less than 2,500 grams (72.3 per cent for primiparous women and 69.7 per cent for multiparous women) (see Figure 5.1).
- The perinatal mortality rate for low birthweight babies (weighing less than 2,500 grams) was 78.3
 per 1,000 live births and stillbirths (71.3 per 1,000 for primiparous women and 85.7 per 1,000 for
 multiparous women).
- For births weighing 2,500 grams or more the perinatal mortality rate was 1.8 per 1,000 live births and stillbirths (2.1 for primiparous women and 1.7 for multiparous women).
- The highest perinatal mortality rate for all births was recorded for births weighing between 500–749 grams at 628.4 per 1,000 live births (see Figure 5.2).

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

²⁵ Throughout this section, 'Not Stated' values are not included in the calculation of percentages for discussion.

For details of birthweight by plurality for total births, antepartum and intrapartum stillbirths, early neonatal deaths and associated rates see Appendix G, Table G18

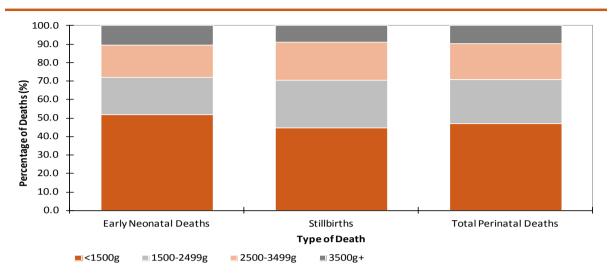
| | 148 163 210 219 912 2,398 8,709 23,930 25,567 | 0.2 0.2 0.3 0.3 1.2 3.2 11.7 | 38 25 24 21 38 28 | 9 3 4 3 | 3 0 1 | 337.8 171.8 138.1 | 43 19 | 438.8 140.7 | 628.4 | 601.4 |
|---|---|--|----------------------------------|------------------|-------------|-------------------------|----------|----------------|--------|--------|
| 750-999 1000-1249 1250-1499 1500-1999 2000-2499 2500-2999 3000-3499 | 163 210 219 912 2,398 8,709 23,930 | 0.2 0.3 0.3 1.2 3.2 11.7 | 25 24 21 38 28 | 3 4 3 | 0 1 | 171.8 | | | | 601.4 |
| 1000-1249 1250-1499 1500-1999 2000-2499 2500-2999 3000-3499 | 210 219 912 2,398 8,709 23,930 | 0.3 0.3 1.2 3.2 11.7 | 24 21 38 28 | 4 | 1 | | 19 | 1/10 7 | | |
| 1250-1499 1500-1999 2000-2499 2500-2999 3000-3499 | 219 912 2,398 8,709 23,930 | 0.3 1.2 3.2 11.7 | 21 38 28 | 3 | | 138 1 | | | 288.3 | 226.7 |
| 1500-1999 2000-2499 2500-2999 3000-3499 | 912 2,398 8,709 23,930 | 1.2 3.2 11.7 | 38 28 | | 1 | | 10 | 55.2 | 185.7 | 118.6 |
| 2000-2499 2500-2999 3000-3499 | 2,398 8,709 23,930 | 3.2 11.7 | 28 | 4 | | 114.2 | 6 | 30.9 | 141.6 | 91.8 |
| 2500-2999 3000-3499 | 8,709 23,930 | 11.7 | | | 0 | 46.1 | 15 | 17.2 | 62.5 | 30.6 |
| 3000-3499 | 23,930 | | | 6 | 0 | 14.2 | 16 | 6.8 | 20.9 | 12.6 |
| | | 32.2 | 31 | 2 | 1 | 3.9 | 10 | 1.2 | 5.1 | 3.6 |
| 3500-3999 | 25,567 | | 24 | 2 | 1 | 1.1 | 16 | 0.7 | 1.8 | 1.2 |
| 2200 2222 2 | | 34.4 | 15 | 3 | 0 | 0.7 | 14 | 0.5 | 1.3 | 0.7 |
| 4000-4499 1 | 10,197 | 13.7 | 8 | 0 | 1 | 0.9 | 2 | 0.2 | 1.1 | 1.0 |
| 4500 and Over | 1,919 | 2.6 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 1 | 0 | 0 | 0 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 |
| Total 7 | 74,373 | 100 | 252 | 36 | 8 | 4.0 | 152 | 2.1 | 6.0 | 4.1 |
| Births to Primipar | | | | | | | | | | |
| 500-749 | 86 | 0.3 | 21 | 5 | 1 | 314.0 | 25 | 423.7 | 604.7 | 580.2 |
| 750-999 | 93 | 0.3 | 12 | 1 | 0 | 139.8 | 7 | 87.5 | 215.1 | 188.9 |
| 1000-1249 | 123 | 0.4 | 14 | 0 | 0 | 113.8 | 5 | 45.9 | 154.5 | 95.7 |
| 1250-1499 | 120 | 0.4 | 8 | 2 | 1 | 91.7 | 2 | 18.3 | 108.3 | 69.6 |
| 1500-1999 | 458 | 1.5 | 13 | 2 | 0 | 32.8 | 5 | 11.3 | 43.7 | 22.3 |
| 2000-2499 | 1,209 | 4.1 | 18 | 3 | 0 | 17.4 | 4 | 3.4 | 20.7 | 15.0 |
| 2500-2999 | 4,087 | 13.7 | 14 | 1 | 0 | 3.7 | 5 | 1.2 | 4.9 | 3.7 |
| 3000-3499 1 | 10,296 | 34.6 | 14 | 0 | 0 | 1.4 | 5 | 0.5 | 1.8 | 1.3 |
| 3500-3999 | 9,564 | 32.1 | 7 | 2 | 0 | 0.9 | 5 | 0.5 | 1.5 | 1.0 |
| 4000-4499 | 3,179 | 10.7 | 2 | 0 | 1 | 0.9 | 1 | 0.3 | 1.3 | 0.9 |
| 4500 and | | | | | | | | | | |
| Over | 559 | 1.9 | 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 |
| | 29,774 | 100 | 123 | 16 | 3 | 4.8 | 64 | 2.2 | 6.9 | 5.1 |
| Births to Multipar | | | 47 | | | 274.0 | 10 | 464.5 | 664.2 | 524.5 |
| 500-749 | 62 | 0.1 | 17 | 4 | 2 | 371.0 | 18 | 461.5 | 661.3 | 631.6 |
| 750-999 | 70 | 0.2 | 13 | 2 | 0 | 214.3 | 12 | 218.2 | 385.7 | 283.3 |
| 1000-1249 | 87 | 0.2 | 10 | 4 | 1 | 172.4 | 5 | 69.4 | 229.9 | 151.9 |
| 1250-1499 | 99 | 0.2 | 13 | 1 | 0 | 141.4 | 4 | 47.1 | 181.8 | 119.6 |
| 1500-1999 | 454 | 1 | 25 | 2 | 0 | 59.5 | 10 | 23.4 | 81.5 | 39.2 |
| 2000-2499 | 1,189 | 2.7 | 10 | 3 | 0 | 10.9 | 12 | 10.2 | 21.0 | 10.2 |
| 2500-2999 | 4,622 | 10.4 | 17 | 1 | 1 | 4.1 | 5 | 1.1 | 5.2 | 3.5 |
| | 13,634 | 30.6 | 10 | 2 | 1 | 1.0 | 11 | 0.8 | 1.8 | 1.2 |
| | 16,003 | 35.9 | 8 | 1 | 0 | 0.6 | 9 | 0.6 | 1.1 | 0.6 |
| 4000-4499 | 7,018 | 15.7 | 6 | 0 | 0 | 0.9 | 1 | 0.1 | 1.0 | 1.0 |
| 4500 and | 1,360 | 3 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Over Not Stated | 1,300 | 0 | 0 | 0 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 |
| | 44,599 | 100 | 129 | 20 | 5 | 3.5 | 88 | 2.0 | 5.4 | 3.5 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

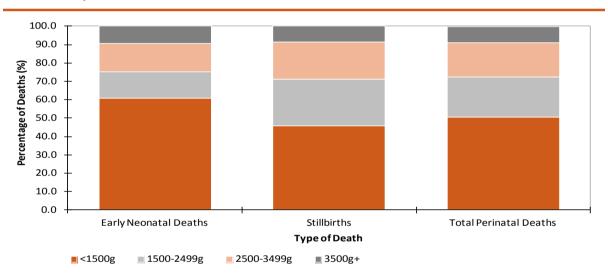
There were 4 maternities for which parity was unknown; these were excluded from the table.

FIGURE 5.1 Deaths by Birthweight Groups and Parity

Total Births



Births to Primiparous Women



Births to Multiparous Women

Note:

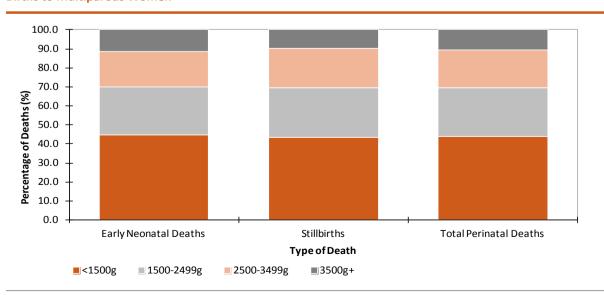
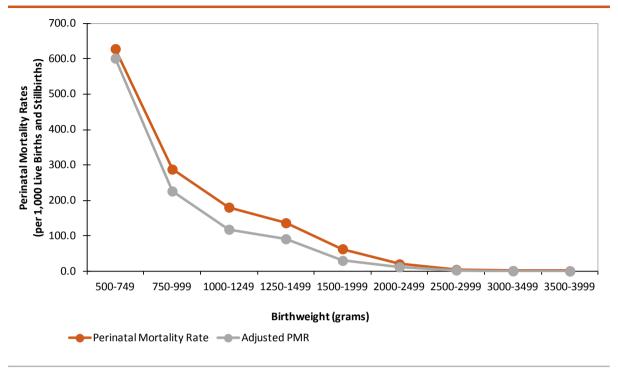


FIGURE 5.2Perinatal Mortality Rates by Birthweight, Total Births



Note: See Table 5.1 for data. Rates based on 20 or fewer observations are not included in this Figure.

CAUSE OF DEATH BY BIRTHWEIGHT

Cause of death data are recorded using the WHO ICD-10 classification.²⁷ Under this system, the main cause of death is defined as the pathological condition of the infant or foetus which, in the opinion of the certifier, made the greatest contribution towards the death.²⁸

Table 5.2 presents cause of death by birthweight for total, singleton and multiple births.

- Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery (P00-P04) accounted for the largest proportion of total perinatal deaths (21.6 per cent).
- Over 70 per cent of total perinatal deaths weighed <2,500 grams, and of these 31.8 per cent were
 due to congenital malformations (Q00-Q99), followed by immaturity (P05-P08) and maternal factors
 (P00-P04), each accounting for almost 20 per cent (see Figure 5.3).
- Almost three in ten perinatal deaths weighed ≥2,500 grams, and of these 31.3 per cent recorded cause of death due to congenital malformations (Q00-Q99), and 26.7 per cent were due to maternal factors (P00-P04) (see Figure 5.4).

World Health Organisation, op. cit.

See Appendix D for more detail.

TABLE 5.2Total Births: Cause of Death by ICD-10 Chapter by Birthweight, Numbers and Perinatal Mortality Rate

| | | | | | | | Bir | thweight (g | rams) | | | | | |
|---|--------------|-----------|-------|--------|-----------------|----------|--------|-----------------|--------|--------|--------|----------|----------|--------------|
| Number | ICD-10 Code | 500 - | 750 - | 1000 - | 1250 - | 1500 - | 2000 - | 2500 - | 3000 - | 3500 - | 4000 - | 4500 and | Not | Total |
| Rate per 1,000 Live Births and Stillbirths | | 749 | 999 | 1249 | 1499 | 1999 | 2499 | 2999 | 3499 | 3999 | 4499 | Over | Stated | |
| Foetus and newborn affected by maternal factors and by | P00-P04 | 16 | 8 | 8 | 9 | 9 | 12 | 12 | 13 | 8 | 2 | 0 | 0 | 97 |
| complications of pregnancy, labour and delivery | | 108.1 | 49.1 | 38.1 | 41.1 | 9.9 | 5.0 | 1.4 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 1.3 |
| Disorders related to length of gestation and foetal growth | P05-P08 | 40 | 9 | 5 | 3 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 66 |
| | | 270.3 | 55.2 | 23.8 | 13.7 | 3.3 | 1.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 | 0.9 |
| Respiratory and cardiovascular disorders specific to the | P20-P29 | 6 | 7 | 4 | 2 | 5 | 6 | 4 | 7 | 6 | 0 | 0 | 0 | 47 |
| perinatal period | | 40.5 | 42.9 | 19.0 | 9.1 | 5.5 | 2.5 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.6 |
| Infections specific to the perinatal period | P35-P39 | 2 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 9 |
| | DE0 DC4 | 13.5 | 12.3 | 4.8 | 4.6 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Haemorrhagic and haematological disorders of foetus and newborn | P50-P61 | 3 20.3 | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 9 |
| Transitory endocrine and metabolic disorders specific to | P70-P74 | 20.3 | 0.0 | 0.0 | <i>4.6</i> 0 | 1.1 0 | 0.0 | <i>0.5</i> 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.1</i> 5 |
| foetus and newborn | F70-F74 | 6.8 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 |
| Digestive system disorders of foetus and newborn | P75-P78 | 1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 1 |
| Digestive system disorders of foctus and flewborn | 173176 | 6.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Conditions involving the integument and temperature | P80-P83 | 2 | 3 | 0.0 | 0.0 | 2 | 0.0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0.0 | 9 |
| regulation of foetus and newborn | | 13.5 | 18.4 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Other disorders originating in the perinatal period | P90.0-P94.9, | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 3 |
| | P96.0-P96.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Foetal death of unspecified cause, Condition originating in | P95, P96.9 | 12 | 4 | 5 | 3 | 8 | 8 | 8 | 7 | 4 | 3 | 0 | 0 | 62 |
| the perinatal period, unspecified | | 81.1 | 24.5 | 23.8 | 13.7 | 8.8 | 3.3 | 0.9 | 0.3 | 0.2 | 0.3 | 0.0 | 0.0 | 0.8 |
| Congenital malformations of the nervous system | Q00-Q07 | 2 | 3 | 6 | 2 | 2 | 5 | 4 | 2 | 4 | 0 | 0 | 0 | 30 |
| | | 13.5 | 18.4 | 28.6 | 9.1 | 2.2 | 2.1 | 0.5 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.4 |
| Congenital malformations of the circulatory system | Q20-Q28 | 1 | 0 | 0 | 0 | 6 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 18 |
| | | 6.8 | 0.0 | 0.0 | 0.0 | 6.6 | 1.3 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Congenital malformations of the respiratory system | Q30-Q34 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cleft lip and cleft palate | Q35-Q37 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Other consental malformations of the diseasing quature | 030 045 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 6 |
| Other congenital malformations of the digestive system | Q38-Q45 | 0 0.0 | 6.1 | 0.0 | 2 9.1 | 1 1.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0 0.0 | 0.1 |
| Congenital malformations of genital organs | Q50-Q56 | 0.0 | 0.1 | 0.0 | 9.1 | 0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2 |
| Congenital manormations of genital organs | Q30-Q30 | 6.8 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Congenital malformations of the urinary system | Q60-Q64 | 0.0 | 0.0 | 0 | 0.0 | 1 | 2 | 3 | 1 | 1 | 0.0 | 0.0 | 0.0 | 8 |
| congenital manormations of the armary system | Q00 Q04 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Congenital malformations and deformations of the | Q65-Q79 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 8 |
| musculoskeletal system | • • | 6.8 | 6.1 | 9.5 | 0.0 | 1.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Other congenital malformations | Q80-Q89 | 3 | 2 | 1 | 2 | 5 | 1 | 1 | 0 | 3 | 1 | 0 | 0 | 19 |
| | | 20.3 | 12.3 | 4.8 | 9.1 | 5.5 | 0.4 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.3 |
| Chromosomal abnormalities, not elsewhere classified | Q90-Q99 | 2 | 6 | 5 | 6 | 14 | 6 | 3 | 3 | 2 | 0 | 0 | 0 | 47 |
| | | 13.5 | 36.8 | 23.8 | 27.4 | 15.3 | 2.5 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 |
| Total | | 93 | 47 | 39 | 31 | 58 | 50 | 44 | 43 | 33 | 11 | 0 | 1 | 450 |
| | | 628.4 | 288.3 | 185.7 | 141.6 | 63.5 | 20.9 | 5.1 | 1.8 | 1.3 | 1.1 | 0.0 | 1000.0 | 6.1 |

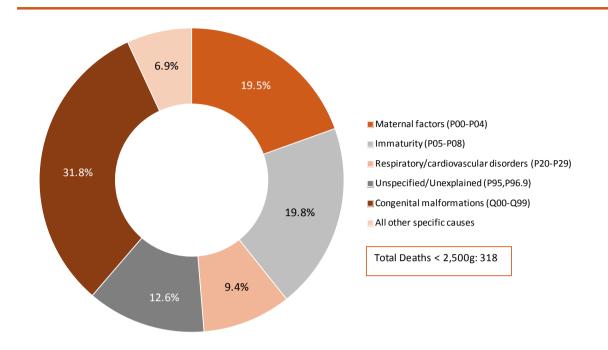
TABLE 5.2Singleton Births: Cause of Death by ICD-10 Chapter by Birthweight, Numbers and Perinatal Mortality Rate

| | | Birthweight (grams) | | | | | | | | | | | | |
|---|--------------|---------------------|-----------|---------------|---------------|-----------|--------------|-----------------|-----------------|----------|------------|----------|--------|-----------|
| Number | ICD-10 Code | 500 - | 750 - | 1000 - | 1250 - | 1500 - | 2000 - | 2500 - | 3000 - | 3500 - | 4000 - | 4500 and | Not | Total |
| Rate per 1,000 Live Births and Stillbirths | | 749 | 999 | 1249 | 1499 | 1999 | 2499 | 2999 | 3499 | 3999 | 4499 | Over | Stated | |
| Foetus and newborn affected by maternal factors and by | P00-P04 | 14 | 7 | 8 | 8 | 5 | 12 | 12 | 13 | 8 | 2 | 0 | 0 | 89 |
| complications of pregnancy, labour and delivery | | 117.6 | 56.0 | 54.8 | 54.8 | 9.1 | 7.1 | 1.6 | 0.6 | 0.3 | 0.2 | 0.0 | 0.0 | 1.2 |
| Disorders related to length of gestation and foetal | P05-P08 | 32 | 6 | 4 | 2 | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 53 |
| growth | | 268.9 | 48.0 | 27.4 | 13.7 | 5.4 | 1.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 | 0.7 |
| Respiratory and cardiovascular disorders specific to the perinatal period | P20-P29 | 5 | 5 | 3 | 2 | 5 | 6 | 4 | 7 | 6 | 0 | 0 | 0 | 43 |
| Infections specific to the perinatal period | P35-P39 | 42.0 2 | 40.0 2 | 20.5 1 | 13.7 0 | 9.1 0 | 3.5 1 | <i>0.5</i> 0 | <i>0.3</i> 0 | 0.2 1 | 0.0 | 0.0 | 0.0 | 0.6 8 |
| infections specific to the permatal period | P35-P39 | 16.8 | 16.0 | 6.8 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Haemorrhagic and haematological disorders of foetus | P50-P61 | 3 | 0 | 0.0 | 0.0 | 1 | 0.0 | 4 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 8 |
| and newborn | 130101 | 25.2 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Transitory endocrine and metabolic disorders specific to | P70-P74 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 5 |
| foetus and newborn | | 8.4 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.1 |
| Digestive system disorders of foetus and newborn | P75-P78 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Conditions involving the integument and temperature | P80-P83 | 2 | 3 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 9 |
| regulation of foetus and newborn | | 16.8 | 24.0 | 0.0 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 |
| Other disorders originating in the perinatal period | P90.0-P94.9, | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| | P96.0-P96.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Foetal death of unspecified cause, Condition originating | P95, P96.9 | 9 | 2 | 5 | 3 | 8 | 8 | 8 | 7 | 4 | 3 | 0 | 0 | 57 |
| in the perinatal period, unspecified | 000 007 | <i>75.6</i> 2 | 16.0 2 | <i>34.2</i> 3 | <i>20.5</i> 2 | 14.5 2 | <i>4.7</i> 5 | 1.0 3 | 0.3 2 | 0.2 4 | <i>0.3</i> | 0.0 | 0.0 | 0.8 25 |
| Congenital malformations of the nervous system | Q00-Q07 | 16.8 | 16.0 | 20.5 | 13.7 | 3.6 | 2.9 | 0.4 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.3 |
| Congenital malformations of the circulatory system | Q20-Q28 | 10.0 | 0 | 0 | 0 | 5.0 | 2.3 | 0.4 | 7 | 1 | 0.0 | 0.0 | 0.0 | 16 |
| congenital manormations of the encadatory system | QEU QEU | 8.4 | 0.0 | 0.0 | 0.0 | 9.1 | 1.2 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| Congenital malformations of the respiratory system | Q30-Q34 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| , , , , , , , , , , , , , , , , , , , | | 0.0 | 0.0 | 6.8 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cleft lip and cleft palate | Q35-Q37 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other congenital malformations of the digestive system | Q38-Q45 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 5 |
| | | 0.0 | 8.0 | 0.0 | 6.8 | 1.8 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Congenital malformations of genital organs | Q50-Q56 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Congenital malformations of the urinary system | Q60-Q64 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 1 | 0 | 0 | 0 | 8 |
| Committee and defermentions of the | 065 070 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Congenital malformations and deformations of the | Q65-Q79 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 8 |
| musculoskeletal system Other congenital malformations | Q80-Q89 | 8.4 2 | 8.0 2 | 13.7 0 | 0.0 | 1.8 4 | 0.0 | 0.1 1 | 0.0 0 | 0.0 1 | 0.0 | 0.0 | 0.0 | 0.1 14 |
| Other congenital manormations | Q00-Q09 | 16.8 | 16.0 | 0.0 | 13.7 | 7.3 | 0.6 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.2 |
| Chromosomal abnormalities, not elsewhere classified | Q90-Q99 | 2 | 6 | 4 | 6 | 14 | 6 | 3 | 3 | 2 | 0.1 | 0.0 | 0.0 | 46 |
| s s sssai abnormantes, not elsewhere diasilieu | 430 433 | 16.8 | 48.0 | 27.4 | 41.1 | 25.4 | 3.5 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 |
| Total | | 78 | 38 | 31 | 26 | 52 | 49 | 43 | 42 | 31 | 11 | 0 | 1 | 402 |
| | | 655.5 | 304.0 | 212.3 | 178.1 | 94.4 | 28.8 | 5.6 | 1.8 | 1.2 | 1.1 | 0.0 | 1000.0 | 5.6 |

TABLE 5.2Multiple Births: Cause of Death by ICD-10 Chapter by Birthweight, Numbers and Perinatal Mortality Rate

| | | Birthweight (grams) | | | | | | | | | | | | |
|---|--------------|---------------------|-------------------|------------|------------------|-----------|----------|----------|----------|------------------|----------|----------|----------|------------|
| Number | ICD-10 Code | 500 - | 750 - | 1000 - | 1250 - | 1500 - | 2000 - | 2500 - | 3000 - | 3500 - | 4000 - | 4500 and | Not | Total |
| Rate per 1,000 Live Births and Stillbirths | | 749 | 999 | 1249 | 1499 | 1999 | 2499 | 2999 | 3499 | 3999 | 4499 | Over | Stated | |
| Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and | P00-P04 | 2 | 1 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| delivery | | 69.0 | 26.3 | 0.0 | 13.7 | 11.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 |
| Disorders related to length of gestation and | P05-P08 | 8 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| foetal growth | | 275.9 | 78.9 | 15.6 | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 |
| Respiratory and cardiovascular disorders specific | P20-P29 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| to the perinatal period | | 34.5 | 52.6 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 |
| Infections specific to the perinatal period | P35-P39 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Haamannharia and baamatalariaal disandan of | P50-P61 | 0.0 | 0.0 | 0.0 | 13.7 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 1 |
| Haemorrhagic and haematological disorders of foetus and newborn | P50-P61 | 0.0 | 0.0 | 0.0 | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| Other disorders originating in the perinatal period | P90.0-P94.9. | 0.0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| other disorders or give the permutui period | P96.0-P96.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| Foetal death of unspecified cause, Condition | P95, P96.9 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| originating in the perinatal period, unspecified | | 103.4 | 52.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| Congenital malformations of the nervous system | Q00-Q07 | 0 | 1 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | 0.0 | 26.3 | 46.9 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| Congenital malformations of the circulatory | Q20-Q28 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| system | | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 |
| Other congenital malformations of the digestive | Q38-Q45 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| system | | 0.0 | 0.0 | 0.0 | 13.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| Congenital malformations of genital organs | Q50-Q56 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 0.0 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| Other congenital malformations | Q80-Q89 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 |
| - | | 34.5 | 0.0 | 15.6 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 37.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| Chromosomal abnormalities, not elsewhere | Q90-Q99 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| classified | 75.5 75.5 | 0.0 | 0.0 | 15.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| Total | | 15 <i>517.2</i> | 9 <i>236.8</i> | 8 125.0 | 5 <i>68.5</i> | 6 16.6 | 1 1.4 | 1 1.0 | 1 2.4 | 2 <i>37.0</i> | 0 0.0 | 0 0.0 | 0 0.0 | 48 17.6 |

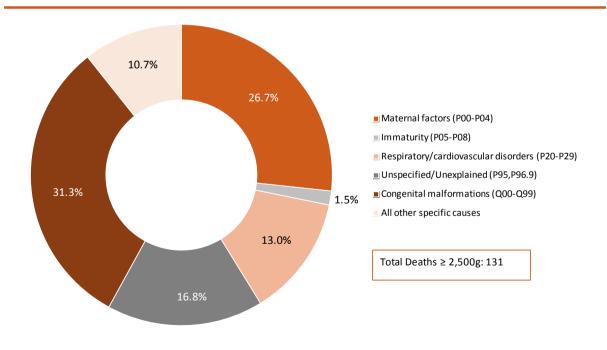
FIGURE 5.3
Total Deaths with Birthweight < 2,500 grams by Cause of Death



Note: See Table 5.2 for data. 'Not Stated' values are not included in the calculation of percentages.

FIGURE 5.4

Total Deaths with Birthweight ≥ 2,500 grams by Cause of Death



Note: See note to Figure 5.3.

MORTALITY BY GESTATIONAL AGE

Table 5.3 presents data on mortality by gestational age.

- Prematurity²⁹ has a significant impact on stillbirth and early neonatal mortality rates with just over two-thirds of total perinatal deaths born preterm.³⁰
- 65.4 per cent of singleton perinatal deaths and 91.7 per cent of multiple perinatal deaths were preterm (see Figure 5.5).
- The perinatal mortality rate for babies born before 37 completed weeks of gestation was 67.5 per 1,000 live births and stillbirths (81.3 per 1,000 singleton births and 33.6 per 1,000 multiple births).
- For babies born at 37 or more completed weeks of gestation, perinatal mortality rate was 2.0 per 1,000 live births and stillbirths (2.0 for singleton births and 2.8 per 1,000 multiple births).

TABLE 5.3Gestational Age (weeks): Total Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and Mortality Rates

| | Total Births | Total Births % | Ante- Partum Stillbirths | Intra- Partum Stillbirths | Not Stated | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* |
|------------------|-----------------|----------------------|--------------------------------|---------------------------------|---------------|---------------------|-----------------------------|---|---------------------------------|------------------|
| Total Births | | | | | | | | | | |
| Less than 28 | 308 | 0.4 | 51 | 12 | 3 | 214.3 | 59 | 243.8 | 405.8 | 385.9 |
| 28-31 | 533 | 0.7 | 47 | 3 | 2 | 97.6 | 13 | 27.0 | 122.0 | 84.1 |
| 32-36 | 3,680 | 4.9 | 68 | 10 | 0 | 21.2 | 37 | 10.3 | 31.3 | 16.6 |
| 37-41 | 67,524 | 90.8 | 83 | 9 | 2 | 1.4 | 39 | 0.6 | 2.0 | 1.2 |
| 42 and Over | 2,324 | 3.1 | 2 | 1 | 1 | 1.7 | 5 | 2.2 | 3.9 | 2.6 |
| Not Stated | 8 | 0 | 2 | 1 | 0 | 375.0 | 0 | 0.0 | 375.0 | 375.0 |
| Total | 74,377 | 100 | 253 | 36 | 8 | 4.0 | 153 | 2.1 | 6.1 | 4.1 |
| Singleton Births | | | | | | | | | | |
| Less than 28 | 238 | 0.3 | 45 | 11 | 3 | 247.9 | 45 | 251.4 | 437.0 | 412.3 |
| 28-31 | 363 | 0.5 | 40 | 3 | 2 | 124.0 | 9 | 28.3 | 148.8 | 112.1 |
| 32-36 | 2,611 | 3.6 | 62 | 10 | 0 | 27.6 | 31 | 12.2 | 39.4 | 20.7 |
| 37-41 | 66,107 | 92.3 | 82 | 9 | 2 | 1.4 | 36 | 0.5 | 2.0 | 1.2 |
| 42 and Over | 2,324 | 3.2 | 2 | 1 | 1 | 1.7 | 5 | 2.2 | 3.9 | 2.6 |
| Not Stated | 8 | 0 | 2 | 1 | 0 | 375.0 | 0 | 0.0 | 375.0 | 375.0 |
| Total | 71,651 | 100 | 233 | 35 | 8 | 3.9 | 126 | 1.8 | 5.6 | 3.8 |
| Multiple Births | | | | | | | | | | |
| Less than 28 | 70 | 2.6 | 6 | 1 | 0 | 100.0 | 14 | 222.2 | 300.0 | 300.0 |
| 28-31 | 170 | 6.2 | 7 | 0 | 0 | 41.2 | 4 | 24.5 | 64.7 | 24.5 |
| 32-36 | 1,069 | 39.2 | 6 | 0 | 0 | 5.6 | 6 | 5.6 | 11.2 | 6.6 |
| 37-41 | 1,417 | 52 | 1 | 0 | 0 | 0.7 | 3 | 2.1 | 2.8 | 0.7 |
| 42 and Over | 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 |
| Total | 2,726 | 100 | 20 | 1 | 0 | 7.7 | 27 | 10.0 | 17.6 | 12.2 |

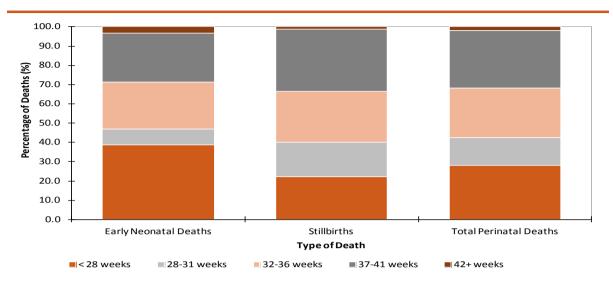
Note: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

Defined as less than 37 completed weeks of gestation.

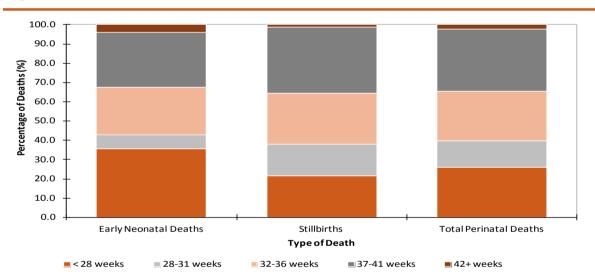
In 2011, 6.1 per cent of total births were pre-term.

FIGURE 5.5Deaths by Gestational Age (weeks), Total, Singleton and Multiple Births

Total Births



Singleton Births



Multiple Births

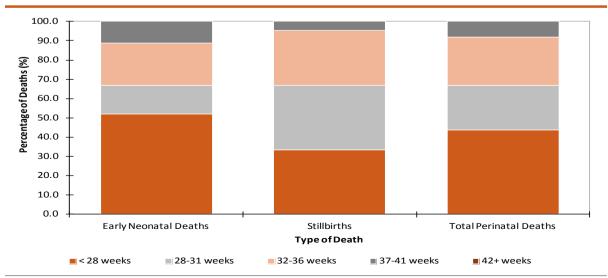
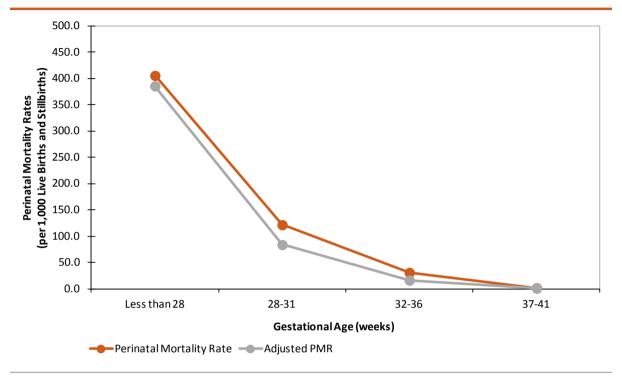


Figure 5.6 shows the perinatal mortality rates by gestational age at delivery for total births, illustrating the higher rates associated with lower gestational age.

FIGURE 5.6Perinatal Mortality Rates by Gestational Age (weeks) at Delivery, Total Births



Note:

See Table 5.3 for data. Rates based on 20 or fewer observations are not included in this Figure.

CAUSE OF DEATH

Cause of death data for stillbirths, early neonatal deaths and total perinatal deaths are presented in Table 5.4. In 2011, 13.8 per cent of total perinatal deaths were classified as 'unspecified/unexplained'. The fact that almost 60 per cent of all perinatal deaths in Ireland do not undergo post-mortem may be a contributing factor to the numbers assigned to this category (see Table 5.6). This finding is not unique to Ireland, however, as many countries report high percentages of unexplained deaths in the perinatal period.

TABLE 5.4Cause of Death by ICD-10 Chapter and Subcategories, Numbers and Mortality Rates

| Foetus and newborn affected by maternal factors and by complications of pregnancy, labour and delivery Foetus and newborn affected by maternal conditions that may be unrelated to present pregnancy Foetus and newborn affected by maternal complications of pregnancy Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by other complications of labour and delivery Disorders related to length of gestation and foetal growth Slow foetal growth and foetal malnutrition Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia Birth asphyxia Respiratory distress of newborn Interstitial emphysema and related conditions originating in the perinatal period Other respiratory conditions originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal period Cardiovascular disorders originating in the perinatal period P290 - P299 P290 - P299 P290 - P299 P290 - P299 | N 92 3 12 73 4 31 10 21 24 | Rate 1.2 0.0 0.2 1.0 0.1 0.3 0.3 | Nec | early populate seaths Rate 0.1 0.0 0.0 0.1 0.0 0.5 0.0 0.5 | N 97 3 13 17 4 66 10 56 | Rate 1.3 0.0 0.2 1.0 0.1 0.9 0.1 0.8 | N 84 3 5 72 4 29 10 19 | Rate 1.2 0.0 0.1 1.0 0.1 0.4 | Early No Dea N 5 0 1 4 0 24 | | N 89 3 6 76 4 53 10 | | Stillb N 8 0 7 1 0 2 | Rate 2.9 0.0 2.6 0.4 0.0 0.7 0.0 | 0 0 0 0 0 | Rate 0.0 0.0 0.0 0.0 4.1 | N 8 0 7 1 0 13 | |
|--|--|--|-------------------------------------|--|--------------------------------------|---|----------------------------|---|------------------------------|--|-------------------------------|--|-----------------------|--|-----------------------|--|--------------------------|---------------------------------|
| by complications of pregnancy, labour and delivery Foetus and newborn affected by maternal conditions that may be unrelated to present pregnancy Foetus and newborn affected by maternal complications of pregnancy Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by complications of placental period Respiratory and delivery P030 - P039 P05-P08 P05-P08 P05-P08 P05-P08 P070 - P079 P070 - P073 P070 - P079 P070 - | 92 3 12 73 4 31 10 21 | 1.2 0.0 0.2 1.0 0.1 0.4 0.1 0.3 | 5 0 1 4 0 35 | 0.1 0.0 0.0 0.1 0.0 0.5 | 97 3 13 77 4 66 10 56 | 1.3 0.0 0.2 1.0 0.1 0.9 | 84 3 5 72 4 29 | 1.2 0.0 0.1 1.0 0.1 0.4 0.1 | 5 0 1 4 0 | 0.1 0.0 0.0 0.1 0.0 0.3 | 89 3 6 76 4 53 | 1.2 0.0 0.1 1.1 0.1 0.7 | 8 0 7 1 0 | 2.9 0.0 2.6 0.4 0.0 0.7 | 0 0 0 0 | 0.0 0.0 0.0 0.0 0.0 4.1 | 8 0 7 1 0 | 2.9 0.0 2.6 0.4 0.0 |
| Foetus and newborn affected by maternal conditions that may be unrelated to present pregnancy Foetus and newborn affected by maternal complications of pregnancy Foetus and newborn affected by maternal complications of pregnancy Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by other complications of placenta, cord and membranes Foetus and newborn affected by other complications of possible provided placenta, cord and membranes Foetus and newborn affected by other complications of possible provided provide | 3 12 73 4 31 10 21 | 0.0 0.2 1.0 0.1 0.4 0.1 0.3 | 0 1 4 0 35 0 35 | 0.0 0.0 0.1 0.0 0.5 0.0 0.5 | 3 13 77 4 66 10 56 | 0.0 0.2 1.0 0.1 0.9 | 3 5 72 4 29 | 0.0 0.1 1.0 0.1 0.4 | 0 1 4 0 24 | 0.0 0.0 0.1 0.0 0.3 | 3 6 76 4 53 | 0.0 0.1 1.1 0.1 | 0 7 1 0 | 0.0 2.6 0.4 0.0 0.7 | 0 0 0 0 | 0.0 0.0 0.0 0.0 4.1 | 0 7 1 0 | 0.0 2.6 0.4 0.0 |
| Foetus and newborn affected by maternal conditions that may be unrelated to present pregnancy Foetus and newborn affected by maternal complications of pregnancy Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by other complications of labour and delivery Disorders related to length of gestation and foetal growth Slow foetal growth and foetal malnutrition Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia Birth asphyxia Respiratory distress of newborn Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 12 73 4 31 10 21 | 0.2 1.0 0.1 0.4 0.1 0.3 | 1 4 0 35 0 35 | 0.0 0.1 0.0 0.5 0.0 0.5 | 13 77 4 66 10 56 | 0.2 1.0 0.1 0.9 | 5 72 4 29 | 0.1 1.0 0.1 0.4 0.1 | 1 4 0 24 | 0.0 0.1 0.0 0.3 | 6 76 4 53 | 0.1 1.1 0.1 0.7 | 7 1 0 | 2.6 0.4 0.0 0.7 | 0 0 0 | 0.0 0.0 0.0 4.1 | 7 1 0 13 | 2.6 0.4 0.0 |
| that may be unrelated to present pregnancy Foetus and newborn affected by maternal complications of pregnancy Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by other complications of labour and delivery Disorders related to length of gestation and foetal growth Slow foetal growth and foetal malnutrition Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia Birth asphyxia Respiratory distress of newborn Interstitial emphysema and related conditions originating in the perinatal period Other respiratory conditions originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 12 73 4 31 10 21 | 0.2 1.0 0.1 0.4 0.1 0.3 | 1 4 0 35 0 35 | 0.0 0.1 0.0 0.5 0.0 0.5 | 13 77 4 66 10 56 | 0.2 1.0 0.1 0.9 | 5 72 4 29 | 0.1 1.0 0.1 0.4 0.1 | 1 4 0 24 | 0.0 0.1 0.0 0.3 | 6 76 4 53 | 0.1 1.1 0.1 0.7 | 7 1 0 | 2.6 0.4 0.0 0.7 | 0 0 0 | 0.0 0.0 0.0 4.1 | 7 1 0 13 | 2.6 0.4 0.0 |
| Foetus and newborn affected by complications of placenta, cord and membranes Foetus and newborn affected by other complications of labour and delivery Disorders related to length of gestation and foetal growth Slow foetal growth and foetal malnutrition P050 - P059 Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 73 4 31 10 21 | 1.0 0.1 0.4 0.1 0.3 | 4 0 35 0 35 | 0.1 0.0 0.5 0.0 0.5 | 77 4 66 10 56 | 1.0 0.1 0.9 | 72 4 29 10 | 1.0 0.1 0.4 0.1 | 4 0 24 | 0.1 0.0 0.3 | 76 4 53 | 1.1 0.1 0.7 | 1 0 | 0.4 0.0 0.7 | 0 0 | 0.0 0.0 4.1 | 1 0 13 | 0.4 |
| Placenta, cord and membranes Foetus and newborn affected by other complications of labour and delivery Disorders related to length of gestation and foetal growth Slow foetal growth and foetal malnutrition P050 - P059 Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 4 31 10 21 | 0.1 0.4 0.1 0.3 | 0 35 0 35 | 0.0 0.5 0.0 0.5 | 4 66 10 56 | 0.1 0.9 | 4 29 10 | 0.1 0.4 0.1 | 0 | 0.0 | 4 53 | 0.1 0.7 | 0 | 0.0 0.7 | 0 | 0.0 4.1 | 0 13 | 0.0 |
| labour and delivery Disorders related to length of gestation and foetal growth Slow foetal growth and foetal malnutrition P050 - P059 Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 31 10 21 | 0.4 0.1 0.3 | 35 0 35 | 0.5 0.0 0.5 | 66 10 56 | 0.9 <i>0.1</i> | 29 | 0.4 <i>0.1</i> | 24 | 0.3 | 53 | 0.7 | 2 | 0.7 | 11 | 4.1 | 13 | |
| Slow foetal growth and foetal malnutrition P050 - P059 Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 10 21 | <i>0.1</i> 0.3 | 0 35 | 0.0 0.5 | 10 56 | 0.1 | 10 | 0.1 | | | | | | | | | | 4.8 |
| Disorders related to short gestation and low birth weight, not elsewhere classified Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 21 | 0.3 | 35 | 0.5 | 56 | | | | 0 | 0.0 | 10 | 0.1 | 0 | 0.0 | 0 | | | |
| Respiratory and cardiovascular disorders specific to the perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | | | | | | 0.8 | 19 | | | | 10 | 0.1 | _ | 0.0 | 0 | 0.0 | 0 | 0.0 |
| perinatal period Intrauterine hypoxia P200 - P209 Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 24 | 0.3 | 23 | 0.2 | | | | 0.3 | 24 | 0.3 | 43 | 0.6 | 2 | 0.7 | 11 | 4.1 | 13 | 4.8 |
| Birth asphyxia P210 - P219 Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | | | | 0.3 | 47 | 0.6 | 23 | 0.3 | 20 | 0.3 | 43 | 0.6 | 1 | 0.4 | 3 | 1.1 | 4 | 1.5 |
| Respiratory distress of newborn P220 - P229 Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 23 | 0.3 | 2 | 0.0 | 25 | 0.3 | 22 | 0.3 | 2 | 0.0 | 24 | 0.3 | 1 | 0.4 | 0 | 0.0 | 1 | 0.4 |
| Interstitial emphysema and related conditions originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| originating in the perinatal period Pulmonary haemorrhage originating in the perinatal period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 1 | 0.4 | 1 | 0.4 |
| period Other respiratory conditions originating in the perinatal period Cardiovascular disorders originating in the perinatal P290 - P299 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| period Cardiovascular disorders originating in the perinatal P290 - P299 | 0 | 0.0 | 6 | 0.1 | 6 | 0.1 | 0 | 0.0 | 4 | 0.1 | 4 | 0.1 | 0 | 0.0 | 2 | 0.7 | 2 | 0.7 |
| | 0 | 0.0 | 6 | 0.1 | 6 | 0.1 | 0 | 0.0 | 6 | 0.1 | 6 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| | 1 | 0.0 | 3 | 0.0 | 4 | 0.1 | 1 | 0.0 | 3 | 0.0 | 4 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Infections specific to the perinatal period P35-P39 | 6 | 0.1 | 3 | 0.0 | 9 | 0.1 | 6 | 0.1 | 2 | 0.0 | 8 | 0.1 | 0 | 0.0 | 1 | 0.4 | 1 | 0.4 |
| Bacterial sepsis of newborn P360 - P369 | 3 | 0.0 | 2 | 0.0 | 5 | 0.1 | 3 | 0.0 | 1 | 0.0 | 4 | 0.1 | 0 | 0.0 | 1 | 0.4 | 1 | 0.4 |
| Other congenital infectious and parasitic diseases P370 - P379 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Other infections specific to the perinatal period P390 - P399 | 2 | 0.0 | 1 | 0.0 | 3 | 0.0 | 2 | 0.0 | 1 | 0.0 | 3 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Haemorrhagic and haematological disorders of foetus P50-P61 and newborn | 6 | 0.1 | 3 | 0.0 | 9 | 0.1 | 5 | 0.1 | 3 | 0.0 | 8 | 0.1 | 1 | 0.4 | 0 | 0.0 | 1 | 0.4 |
| Foetal blood loss P500 - P509 | 4 | 0.1 | 0 | 0.0 | 4 | 0.1 | 3 | 0.0 | 0 | 0.0 | 3 | 0.0 | 1 | 0.4 | 0 | 0.0 | 1 | 0.4 |
| Intracranial nontraumatic haemorrhage of foetus and P520 - P529 newborn | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Other perinatal haematological disorders P610 - P619 | | | | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |

Table 5.4: Cause of Death by ICD-10 Chapter and Subcategories, Numbers and Mortality Rates (cont.)

| | ICD-10 Code | Total Deaths | | | | | | Singleton Deaths | | | | | | | Multiple Deaths | | | | | |
|---|-------------|--------------|--------|---------|---------|----------|----------|------------------|--------|----------|---------|---------|----------|--------|-----------------|---------|---------|----------|---------|--|
| | | Still | births | Early N | eonatal | Total Pe | erinatal | Still | births | Early No | eonatal | Total P | erinatal | Stillb | irths | Early N | eonatal | Total Pe | erinata | |
| | | | | Dea | aths | Dea | iths | | | Dea | iths | Dea | aths | | | Dea | iths | Dea | ths | |
| | | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | |
| Transitory endocrine and metabolic disorders specific to foetus and newborn | P70-P74 | 4 | 0.1 | 1 | 0.0 | 5 | 0.1 | 4 | 0.1 | 1 | 0.0 | 5 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Transitory disorders of carbohydrate metabolism specific to foetus and newborn | P700 - P709 | 4 | 0.1 | 1 | 0.0 | 5 | 0.1 | 4 | 0.1 | 1 | 0.0 | 5 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Digestive system disorders of foetus and newborn | P75 - P78 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Necrotizing enterocolitis of foetus and newborn | P77 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Conditions involving the integument and temperature regulation of foetus and newborn | P80-P83 | 8 | 0.1 | 1 | 0.0 | 9 | 0.1 | 8 | 0.1 | 1 | 0.0 | 9 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Other conditions of integument specific to foetus and newborn | P830 - P839 | 8 | 0.1 | 1 | 0.0 | 9 | 0.1 | 8 | 0.1 | 1 | 0.0 | 9 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Other disorders originating in the perinatal period | P90-P96 | 54 | 0.7 | 11 | 0.1 | 65 | 0.9 | 51 | 0.7 | 8 | 0.1 | 59 | 0.8 | 3 | 1.1 | 3 | 1.1 | 6 | 2.2 | |
| Other disturbances of cerebral status of newborn | P910 - P919 | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 1 | 0.4 | 1 | 0.4 | |
| Foetal death of unspecified cause, Condition origination in the perinatal period, unspecified | P95, P969 | 54 | 0.7 | 8 | 0.1 | 62 | 0.8 | 51 | 0.7 | 6 | 0.1 | 57 | 0.8 | 3 | 1.1 | 2 | 0.7 | 5 | 1. | |
| Congenital malformations of the nervous system | Q00-Q07 | 10 | 0.1 | 20 | 0.3 | 30 | 0.4 | 9 | 0.1 | 16 | 0.2 | 25 | 0.3 | 1 | 0.4 | 4 | 1.5 | 5 | 1. | |
| Anencephaly and similar malformations | Q000 - Q002 | 5 | 0.1 | 9 | 0.1 | 14 | 0.2 | 5 | 0.1 | 5 | 0.1 | 10 | 0.1 | 0 | 0.0 | 4 | 1.5 | 4 | 1 | |
| Congenital hydrocephalus | Q030 - Q039 | 1 | 0.0 | 6 | 0.1 | 7 | 0.1 | 1 | 0.0 | 6 | 0.1 | 7 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Other congenital malformations of the brain | Q040 - Q049 | 1 | 0.0 | 3 | 0.0 | 4 | 0.1 | 1 | 0.0 | 3 | 0.0 | 4 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Spina bifida | Q050 - Q059 | 3 | 0.0 | 2 | 0.0 | 5 | 0.1 | 2 | 0.0 | 2 | 0.0 | 4 | 0.1 | 1 | 0.4 | 0 | 0.0 | 1 | 0. | |
| Congenital malformations of the circulatory system | Q20-Q28 | 9 | 0.1 | 9 | 0.1 | 18 | 0.2 | 9 | 0.1 | 7 | 0.1 | 16 | 0.2 | 0 | 0.0 | 2 | 0.7 | 2 | 0. | |
| Congenital malformations of cardiac chambers and connections | Q200 - Q209 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Congenital malformations of cardiac septa | Q210 - Q219 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Congenital malformations of pulmonary and tricuspid valves | Q220 - Q229 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Congenital malformations of aortic and mitral valves | Q230 - Q239 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Other congenital malformations of heart | Q240 - Q249 | 4 | 0.1 | 6 | 0.1 | 10 | 0.1 | 4 | 0.1 | 5 | 0.1 | 9 | 0.1 | 0 | 0.0 | 1 | 0.4 | 1 | 0.4 | |
| Congenital malformations of great veins | Q260 - Q269 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.4 | 1 | 0.4 | |
| Other congenital malformations of peripheral vascular system | Q270 - Q279 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Other congenital malformations of circulatory system | Q280 - Q289 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Congenital malformations of the respiratory system | Q30-Q34 | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 0 | 0.0 | 3 | 0.0 | 3 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Congenital malformations of trachea and bronchus | Q320 - Q324 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Congenital malformations of lung | Q330 - Q339 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Other congenital malformations of respiratory system | Q340 - Q349 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Cleft lip and cleft palate | Q35-Q37 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |
| Cleft palate with cleft lip | Q370 - Q379 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | |

Table 5.4: Cause of Death by ICD-10 Chapter and Subcategories, Numbers and Mortality Rates (cont.)

| | ICD-10 Code | | | Total Deaths | | | | | Singleton Deaths | | | | | | | Multipl | Multiple Deaths | | ; | |
|--|-------------|-------|--------|--------------|---------|----------|----------|--------|------------------|-----|---------|-----|----------|-------|--------|----------|-----------------|---------|--------|--|
| | | Still | oirths | Early No | eonatal | Total Pe | erinatal | Stillb | irths | | eonatal | | erinatal | Still | births | Early No | | Total P | erinat | |
| | | | | Dea | ths | Dea | ths | | | Dea | aths | Dea | aths | | | Dea | ths | Dea | aths | |
| | | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | |
| Other congenital malformations of the digestive system | Q38-Q45 | 3 | 0.0 | 3 | 0.0 | 6 | 0.1 | 2 | 0.0 | 3 | 0.0 | 5 | 0.1 | 1 | 0.4 | 0 | 0.0 | 1 | 0. | |
| Congenital malformations of oesophagus | Q390 - Q399 | 1 | 0.0 | 1 | 0.0 | 2 | 0.0 | 1 | 0.0 | 1 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Congenital absence, atresia and stenosis of small intestine | Q410 - Q419 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Other congenital malformations of intestine | Q430 - Q439 | 1 | 0.0 | 1 | 0.0 | 2 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.4 | 0 | 0.0 | 1 | 0. | |
| Other congenital malformations of digestive system | Q450 - Q459 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Congenital malformations of genital organs | Q50-Q56 | 1 | 0.0 | 1 | 0.0 | 2 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 1 | 0.4 | 0 | 0.0 | 1 | 0. | |
| Congenital malformations of uterus and cervix | Q510 - Q519 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.4 | 0 | 0.0 | 1 | 0. | |
| Indeterminate sex and pseudohermaphroditism | Q560 - Q564 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Congenital malformations of the urinary system | Q60-Q64 | 3 | 0.0 | 5 | 0.1 | 8 | 0.1 | 3 | 0.0 | 5 | 0.1 | 8 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Renal agenesis and other reduction defects of kidney | Q600 - Q606 | 1 | 0.0 | 3 | 0.0 | 4 | 0.1 | 1 | 0.0 | 3 | 0.0 | 4 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Cystic kidney disease | Q610 - Q619 | 1 | 0.0 | 2 | 0.0 | 3 | 0.0 | 1 | 0.0 | 2 | 0.0 | 3 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Other congenital malformations of kidney | Q630 - Q639 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Congenital malformations and deformations of the musculoskeletal system | Q65-Q79 | 6 | 0.1 | 2 | 0.0 | 8 | 0.1 | 6 | 0.1 | 2 | 0.0 | 8 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Osteochondrodysplasia with defects of growth of tubular bones and spine | Q770 - Q779 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 | 0 | 0.0 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Other osteochondrodysplasias | Q780 - Q789 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Congenital malformations of musculoskeletal system, not elsewhere classified | Q790 - Q799 | 3 | 0.0 | 2 | 0.0 | 5 | 0.1 | 3 | 0.0 | 2 | 0.0 | 5 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | O | |
| Other congenital malformations | Q80-Q89 | 11 | 0.1 | 8 | 0.1 | 19 | 0.3 | 9 | 0.1 | 5 | 0.1 | 14 | 0.2 | 2 | 0.7 | 3 | 1.1 | 5 | 1 | |
| Other specified congenital malformation syndromes affecting multiple systems | Q870 - Q878 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | C | |
| Other congenital malformations, not elsewhere classified | Q890 - Q899 | 9 | 0.1 | 8 | 0.1 | 17 | 0.2 | 7 | 0.1 | 5 | 0.1 | 12 | 0.2 | 2 | 0.7 | 3 | 1.1 | 5 | 1 | |
| Chromosomal abnormalities, not elsewhere classified | Q90-Q99 | 29 | 0.4 | 18 | 0.2 | 47 | 0.6 | 28 | 0.4 | 18 | 0.3 | 46 | 0.6 | 1 | 0.4 | 0 | 0.0 | 1 | 0 | |
| Downs syndrome | Q900 - Q909 | 8 | 0.1 | 0 | 0.0 | 8 | 0.1 | 7 | 0.1 | 0 | 0.0 | 7 | 0.1 | 1 | 0.4 | 0 | 0.0 | 1 | 0. | |
| Edwards syndrome and Pataus syndrome | Q910 - Q917 | 15 | 0.2 | 14 | 0.2 | 29 | 0.4 | 15 | 0.2 | 14 | 0.2 | 29 | 0.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Other trisomies and partial trisomies of the autosomes, not elsewhere classified | Q920 - Q929 | 2 | 0.0 | 2 | 0.0 | 4 | 0.1 | 2 | 0.0 | 2 | 0.0 | 4 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Turners syndrome | Q960 - Q969 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0 | |
| Other chromosome abnormalities, not elsewhere classified | Q990 - Q999 | 2 | 0.0 | 2 | 0.0 | 4 | 0.1 | 2 | 0.0 | 2 | 0.0 | 4 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0. | |
| Total | | 297 | 4.0 | 153 | 2.1 | 450 | 6.1 | 276 | 3.8 | 126 | 1.8 | 402 | 5.6 | 21 | 7.7 | 27 | 10.0 | 48 | 17 | |

Notes: N equals number of deaths.

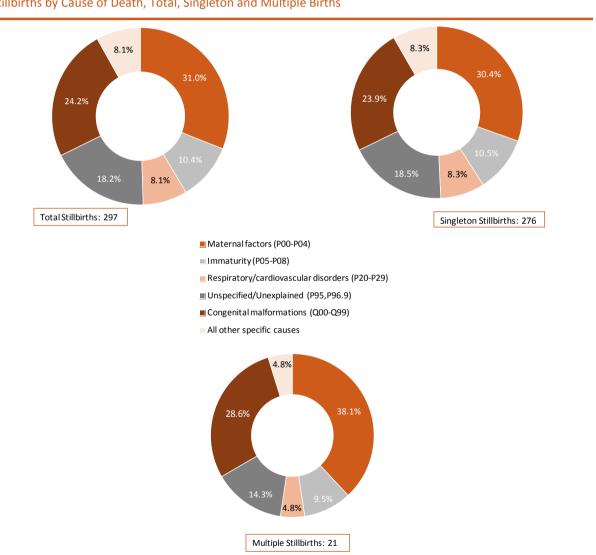
Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

STILLBIRTHS

Figure 5.7 presents the main cause of death for stillbirths.

- Maternal factors (P00-P04) were the leading cause of death for total stillbirths (31.0 per cent).
- While maternal factors accounted for 38.1 per cent of multiple stillbirths, the second leading cause of death was congenital malformations, accounting for 28.6 per cent of multiple stillbirths.
- Congenital malformations (Q00-Q99) contributed to almost one in 4 deaths for total stillbirths (24.2 per cent) and singleton stillbirths (23.9 per cent).
- The cause of death was unspecified/unexplained (P95, P96.9) for 18.2 per cent of total stillbirths.

FIGURE 5.7Stillbirths by Cause of Death, Total, Singleton and Multiple Births



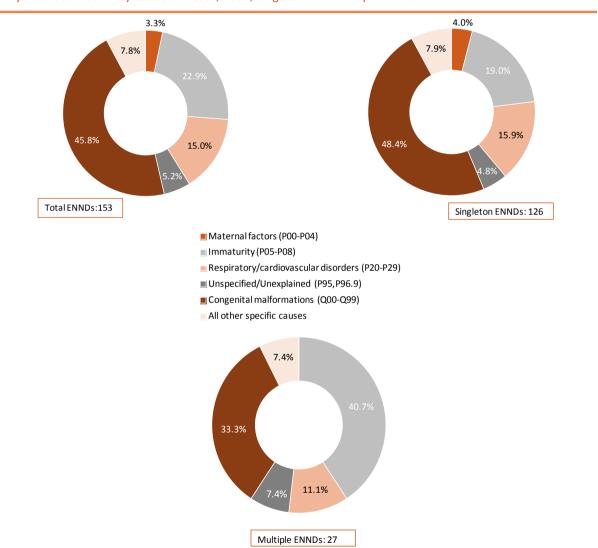
Note: See Table 5.4 for data. Percentages are subject to rounding.

EARLY NEONATAL DEATHS (ENNDs)

Figure 5.8 presents the main cause of death for early neonatal deaths.

- Over 45 per cent of total early neonatal deaths and 48.4 per cent of singleton early neonatal deaths were due to congenital malformations (Q00-Q99).
- Immaturity (P05-P08) was the second leading cause of death, contributing to 22.9 per cent of total early neonatal deaths and 19.0 per cent of singleton early neonatal deaths.
- Immaturity (P05-P08) accounted for 40.7 per cent of multiple early neonatal deaths.

FIGURE 5.8 Early Neonatal Deaths by Cause of Death, Total, Singleton and Multiple Births



See Table 5.4 for data. Percentages are subject to rounding.

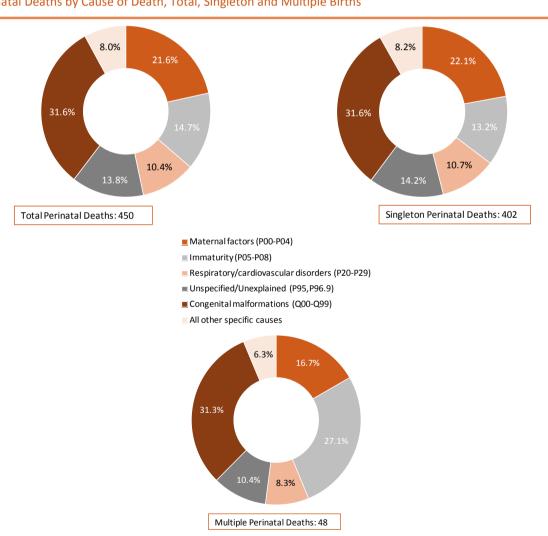
Note:

TOTAL PERINATAL DEATHS

Figure 5.9 presents data on all perinatal deaths.

- Congenital malformations (Q00-Q99) accounted for almost 1 in 3 total perinatal deaths (31.6 per cent) and were the leading cause of death for total singleton perinatal deaths (31.6 per cent) and total multiple perinatal deaths (31.3 per cent).
- Maternal factors were the second most frequently reported cause of death for total singleton perinatal deaths (22.1 per cent).
- Immaturity (P05-P08) was the second most frequent cause of death for total multiple perinatal deaths accounting for 27.1 per cent of deaths.

FIGURE 5.9Perinatal Deaths by Cause of Death, Total, Singleton and Multiple Births



Note:

AGE AT DEATH

Table 5.5 presents age at death for early neonatal deaths.

- 1 in 5 early neonatal deaths occurred within the first hour of life.
- Almost 60 per cent of total early neonatal deaths died within the first day of life.

TABLE 5.5 Age at Death, Early Neonatal Deaths

| | Total B | Births | Singleto | n Births | Multiple | Births |
|--------------------|---------|----------|----------|----------|----------|----------|
| | Number | Per Cent | Number | Per Cent | Number | Per Cent |
| Completed Hours | | | | | | |
| <1 | 30 | 19.6 | 28 | 22.2 | 2 | 7.4 |
| 1 | 16 | 10.5 | 10 | 7.9 | 6 | 22.2 |
| 2 | 10 | 6.5 | 8 | 6.3 | 2 | 7.4 |
| 3 | 11 | 7.2 | 9 | 7.1 | 2 | 7.4 |
| 4 | 2 | 1.3 | 2 | 1.6 | 0 | 0.0 |
| 5 | 4 | 2.6 | 4 | 3.2 | 0 | 0.0 |
| 6 | 1 | 0.7 | 1 | 0.8 | 0 | 0.0 |
| 7-10 | 2 | 1.3 | 1 | 0.8 | 1 | 3.7 |
| 11-15 | 7 | 4.6 | 6 | 4.8 | 1 | 3.7 |
| 16-23 | 4 | 2.6 | 4 | 3.2 | 0 | 0.0 |
| Total under 1 day | 87 | 56.9 | 73 | 57.9 | 14 | 51.9 |
| Completed Days | | | | | | |
| 1 | 14 | 9.2 | 11 | 8.7 | 3 | 11.1 |
| 2 | 17 | 11.1 | 14 | 11.1 | 3 | 11.1 |
| 3 | 14 | 9.2 | 10 | 7.9 | 4 | 14.8 |
| 4 | 5 | 3.3 | 5 | 4.0 | 0 | 0.0 |
| 5 | 5 | 3.3 | 4 | 3.2 | 1 | 3.7 |
| 6 | 8 | 5.2 | 6 | 4.8 | 2 | 7.4 |
| Total under 1 Week | 63 | 41.2 | 50 | 39.7 | 13 | 48.1 |
| Unknown | 3 | 2.0 | 3 | 2.4 | 0 | 0.0 |
| Total | 153 | 100 | 126 | 100 | 27 | 100 |

POST-MORTEM EXAMINATIONS

Post-mortem examinations were less likely in the case of early neonatal deaths compared to stillbirths and this trend is consistent over recent years. ³¹ Table 5.6 presents data on post-mortem examinations.

- The percentage of early neonatal deaths undergoing post-mortem examinations was 25.9 per cent compared to 48.1 per cent for stillbirths.
- A post-mortem examination was undertaken for 40.8 per cent of total perinatal deaths in 2011.

TABLE 5.6Post-Mortem Examinations, Total Deaths

| | | Type of Death | |
|---------------------|-----------------------|---------------|------------|
| Frequency | | | |
| Row Per Cent | Early Neonatal Deaths | Stillbirths | Total |
| Col. Per Cent | | | |
| Total Births | | | |
| Post-Mortem | 38 | 143 | 181 |
| | 21.0 | 79.0 | 100 |
| | 24.8 | 48.1 | 40.2 |
| No Post-Mortem | 109 | 154 | 263 |
| | 41.4 | 58.6 | 100 |
| | 71.2 | 51.9 | 58.4 |
| Not Stated | 6 | 0 | 6 |
| | 100 | 0.0 | 100 |
| | 3.9 | 0.0 | 1.3 |
| Total | 153 | 297 | 450 |
| | 34.0 | 66.0 | 100 |
| Charles a Phala | 100 | 100 | 100 |
| Singleton Births | 24 | 125 | 460 |
| Post-Mortem | 34 | 135 | 169 |
| | 20.1 | 79.9 | 100 |
| No Doot Montons | 27.0 | 48.9 | 42.0 |
| No Post-Mortem | 86 | 141 | 227 |
| | 37.9 | 62.1 | 100 |
| Not Chatail | 68.3 | 51.1 | 56.5 |
| Not Stated | 6 100 | 0 0.0 | 6 |
| | | | 100 |
| Tetal | 4.8 | 0.0 | 1.5 |
| Total | 126 | 276 | 402 |
| | 31.3 100 | 68.7 100 | 100 100 |
| Multiple Births | 100 | 100 | 100 |
| Post-Mortem | 4 | 8 | 12 |
| rost-iviolitem | 33.3 | 66.7 | 100 |
| | 14.8 | 38.1 | 25.0 |
| No Post-Mortem | 23 | 13 | 36 |
| NO I OSCINIOI (CIII | 63.9 | 36.1 | 100 |
| | 85.2 | 61.9 | 75.0 |
| Not Stated | 0 | 0 | 75.0 |
| NOI Stateu | 0.0 | 0.0 | 0.0 |
| | | | |
| Total | 0.0 27 | 0.0 | 0.0 |
| Total | 56.3 | 43.8 | 100 |
| | 100 | 100 | 100 |

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APPENDICES

APPENDIX A

DEFINITIONS

This section collates the definitions of the terms used in the analyses for this report. All perinatal statistics and definitions are based on WHO ICD-10 Classifications.

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

Age-Specific Fertility Rate (ASFR): refers to the number of live births to women in a particular age group divided by the female population in that age group, multiplied by 1,000 (see also definition for Total Period Fertility Rate (TPFR)).

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.

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

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

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, only births weighing 500 grams or more are included in any analysis of NPRS data.

Born Before Arrival (BBA): Where BBA is recorded as place of birth this indicates that an infant was delivered before arrival at hospital.

Cause of Death: This categorisation indicates the principal underlying pathological cause, which in the opinion of the certifier made the greatest contribution to the death of the infant or foetus. In assigning cause of death in the NPRS, the guidelines recommended by the WHO have been followed. A summary of these guidelines is provided in Appendix D. Since 2005 the *International Statistical Classification of Diseases and Related Health Problems,* 10th Revision, Vols. 1-3. Geneva: World Health Organisation is used to code Irish births.

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

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 2011, there were 58 births under hospital administered home birth schemes. For the purposes of this report these births are treated as hospital births due to their small numbers.

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:

Number of Early Neonatal Deaths x 1,000 Total Number of Live Births

Hospital Admission Booked or Unbooked: This indicates whether a mother's admission to hospital for delivery was booked or unbooked prior to delivery. Domiciliary births are not included in the 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 to indicate immunity to rubella.

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.

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

Marital Status: Five categories are used:

- Married
- 2. Never Married (classified as 'Single' in discussion in this report)
- 3. Widowed
- 4. Separated (including deserted, legally separated, Church decree of nullity and otherwise separated)
- 5. Divorced.

Maternity: refers to a woman who has delivered a baby irrespective of outcome. In accordance with WHO guidelines, only births weighing 500 grams or more are included in any analysis of NPRS data.

Method of Delivery: Six categories are used:³²

- 1. Spontaneous cephalic delivery
- 2. Breech delivery, spontaneous, with or without forceps to after-coming head, breech extraction
- 3. Forceps delivery
- 4. Vacuum extraction³³
- 5. Caesarean section
- 6. Other Specified and Combined (for example, combination of spontaneous delivery followed by a vacuum extraction or caesarean section).

Mother's and Father's Nationality: This indicates place 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. Details are given in Appendix F.

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

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

Primiparous: Women who have had no previous pregnancy resulting in a live birth or stillbirth.

Multiparous: Women who have had at least one previous pregnancy resulting in a live birth or stillbirth.

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

Number of Stillbirths and Early Neonatal Deaths x 1,000
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.

Perinatal Period: For the purposes of NPRS the perinatal period covers pregnancy, delivery and ends at seven completed days after birth.

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.

For the purpose of presenting data in this report 'instrumental delivery' includes breech/forceps, forceps or vacuum extraction

Also known as Ventouse Deliveries (*Source*: World Health Organization, 2005, *International Statistical Classification of Diseases and Related Health Problems*, 10th Revision, Vol. 1. Geneva: World Health Organization).

Plurality: This indicates the number of births resulting from a single pregnancy.

Singleton birth: Results when one baby is born from a single pregnancy.

Multiple births: Results when more than one baby is born from a single pregnancy.

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.

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.

Size of Maternity Unit: Size in this context refers to the number of live births and stillbirths occurring during the year in a dedicated maternity hospital/unit.

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

Number of Stillbirths x 1,000
Total Number of Live Births and Stillbirths

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

Total Period Fertility Rate (TPFR): is compiled by summing the Age-Specific Fertility Rate (ASFR) for the relevant five-year age groups, dividing by 1,000 and multiplying by 5. It gives the theoretical average number of children who would be born alive to a woman during her lifetime if she were to pass through her childbearing years conforming to the age-specific fertility rates of a given year. See also definition for ASFR.

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

Twinning Rate: This is given by:

Number of Twin Births / 2

Total Number of Maternities x 1,000

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

Type of Feeding: This indicates whether artificial feeding, breastfeeding, or a combination of both was being used at the time of discharge. Type of feeding is based on live births only (excluding early neonatal deaths). Any breastfeeding includes type of feeding recorded as either breast or combined at discharge from hospital.

APPENDIX B

COPY OF PART 3 OF THE BIRTH NOTIFICATION FORM USED BY NPRS

The following format was used for births in 2011.

| Notification of Birth - To: National Perinatal Reporting System, The Economic & | Social Research Institute, Whitaker Square, Sir John Rogerson's Quay, Dublin 2 |
|---|--|
| TYPE OF BIRTH 1 PLACE OF BIRTH (Hospital = 1, BBA = 2, Domicillary = 3) (Live = 1, Sall = 2) | |
| HOSPITAL CASE | ADDRESS OF |
| NO. 3 NO. 6 Y | Y Y Y HOSPITAL. |
| DATE OF BIRTH (DD/MM/YYYY) 14 | MOTHER'S HEALTH ANTENATAL CARE THIS PREGNANCY |
| TIME OF BIRTH | (Hospital / Obstetrician = 1, G.P. Only = 2, Combined = 3, None = 4, Midwife Only=5) |
| IF MULTIPLE BIRTH ORDER OF BIRTH No. 22 of 23 | DATE OF FIRST VISIT TO DOCTOR |
| | DURING PREGNANCY (DDMMYYYY) 118 |
| SEX (Male = 1, Female = 2, Indeterminate = 3) | DATE OF FIRST VISIT TO HOSPITAL DURING PREGNANCY (DDMMYYYY) 126 |
| BIRTHWEIGHT 25 GRAMMES | WAS MOTHER IMMUNE TO RUBELLA |
| PERIOD OF GESTATION 29 WEEKS FATHER'S DETAILS | (Yes = 1, No = 2, Not Known = 3) |
| FATHER'S DETAILS | METHOD OF DELIVERY (Spontaneous = 1, Breech ± Forceps = 2, |
| | Forceps = 3, Vac. Extraction = 4, Caesarean Sec. = 5, Other = 6) |
| | MAIN MATERNAL DISEASE OR CONDITION AFFECTING FOETUS OR INFANT |
| | |
| | 136 |
| | OTHER MATERNAL DISEASES OR CONDITIONS AFFECTING FOETUS OR INFANT |
| COUNTY 31 | |
| COUNTRY 34 LLL | 141 |
| NATIONALITY | INFANT'S HEALTH |
| OCCUPATION 42 | TYPE OF FEEDING (Artificial = 1, Breast = 2, Combined = 3) |
| DATE OF BIRTH (DDMMYYYY) 44 | WAS BCG ADMINISTERED (Yes = 1, No = 2) 147 |
| MOTHER'S DETAILS | MAIN DISEASE OR CONGENITAL MALFORMATION AFFECTING INFANT |
| | |
| | 148 |
| | OTHER DISEASES OR CONGENITAL MALFORMATIONS AFFECTING INFANT |
| | |
| | 153 |
| | HOSPITAL |
| COUNTY 52 1 | WAS ADMISSION BOOKED (Yes = 1, No = 2) 158 |
| COUNTRY 55 1 1 | DATE OF MOTHER'S ADMISSION (DDMMYYYY) 159 |
| NATIONALITY 59 59 | |
| OCCUPATION 63 | DATE OF MOTHER'S DISCHARGE (DDMMYYYY) 167 |
| DATE OF BIRTH (DDMMYYYY) 65 | DATE OF INFANT'S DISCHARGE (DDMMYYYY) 175 |
| | WAS INFANT TRANSFERRED TO OTHER HOSPITAL |
| MARITALS TATUS (Married = 1, Never Married = 2, Widowed = 3, Married but Separated = 4, Divorced, = 5) 73 | FOR MEDICAL REASONS (Yes = 1, No = 2) |
| DATE OF PRESENT MARRIAGE (DDMMYYYY) 74 74 | IF 'YES', NAME OF HOSPITAL |
| DATE OF LAST BIRTH (live or still) (DDMMYYYY) 82 | |
| NO. OF PREVIOUS LIVE BIRTHS 90 | 184 |
| CHILDREN STILL LIVING 92 | GENERAL PRACTITIONER ATTENDED BY MOTHER |
| STILLBIRTHS 94 | GENERAL FRACTITIONER ATTEMPED BY MOTHER |
| PERINATAL DEATH 96 PERINATAL DEATH | |
| TYPE OF DEATH (Early Neonatal = 1, Stillbirth = 2) WAS AUTOPSY PERFORMED (Yes = 1, No = 2) 98 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 1 1 1 | |

APPENDIX C

CLASSIFICATION OF OCCUPATION

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

Under Father's occupation, the following applies:

'Not Applicable' is entered when the marital status of the mother has been given as never married, widowed, separated or divorced, and where father's occupation has been left blank. 'Not Stated' applies to those cases where the marital status of the mother is recorded as either married or not stated, and where father's occupation has been left blank or has been recorded as 'Unknown'. In either case, if an occupation is given for the father then the appropriate occupational code has been used. For the purposes of presenting data on father's occupation in this report, the categories 'Not Applicable' and 'Not Stated' are combined.

The full list of socioeconomic groups used in this report is as follows:

- Farmers & Farm Managers
- Other Agricultural Occupations & Fishermen
- Higher Professional
- Lower Professional
- Employers & Managers
- Salaried Employees
- Intermediate Non-Manual Workers
- Other Non-Manual Workers

- Skilled Manual Workers
- Semi-Skilled Manual Workers
- Unskilled Manual Workers
- Unemployed
- Not Classifiable
- Not Applicable (Father's Occupation Only)
- Home Duties
- Not Stated.

APPENDIX D

CAUSE OF DEATH CLASSIFICATION

The main cause of death has been determined according to the guidelines set out by the WHO in the Tenth Revision of the ICD.³⁴ The principal coding criteria are summarised here.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Rule P4. Conditions entered in wrong section

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

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

Table D1 summarises these rules.

TABLE D1Cause of Death Coding Rules

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

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

TABLE D2ICD 10, Cause of Death Codes

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

All other codes (A00–O99, R00–Z99) have been classified in the category 'all other causes'.

APPENDIX E

Note:

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

For the purposes of this report Tipperary North Riding and Tipperary South Riding have been combined for County Tipperary.

APPENDIX F

CLASSIFICATION OF NATIONALITY

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

Nationalities have been coded and classified into groupings according to a system devised by the CSO, see below:

Ireland includes the following: UK includes the following:

IrelandEnglandIrish AmericanGreat BritainIrish EnglishNorthern Ireland

Irish EuropeanScotlandIrish Other.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 27 includes the following:

Bulgaria Lithuania
Cyprus Malta
Czech Republic Poland
Estonia Slovakia
Hungary Slovenia
Latvia Romania.

Rest of Europe includes the following:

Andorra Jersey

Armenia Liechtenstein

Azerbaijan Macedonia, The Former Yugoslav Republic of,

Belarus Moldova, Republic of

Bosnia and Herzegovina Monaco Croatia Norway

Faroe Islands Russian Federation

Georgia San Marino
Gibraltar Switzerland

Guernsey Turkey
Iceland Ukraine
Isle of Man Vatican City

Yugoslavia, Federal Republic of.

Africa includes the following:

Algeria Malawi Angola Mali

Benin Mauritania Botswana Mauritius Burkina Faso Mayotte Burundi Morocco Cameroon Mozambique Cape Verde Namibia Central African Republic Niger Chad Nigeria Comoros Reunion Congo Rwanda Congo, The Democratic Republic of the Saint Helena

Cote d'Ivoire Sao Tome and Principe

Djibouti Senegal
Egypt Seychelles
Equatorial Guinea Sierra Leone
Eritrea Somalia
Ethiopia South Africa
Gabon Sudan
Gambia Swaziland

Ghana Tanzania, United Republic of

Guinea Togo Guinea-Bissau Tunisia Kenya Uganda

Lesotho Western Sahara

Liberia Zambia
Libyan Arab Jamahiriya Zimbabwe.

Madagascar

Asia includes the following:

Afghanistan Macao Bahrain Malaysia Bangladesh Maldives **Bhutan** Mongolia **British Indian Ocean Territory** Myanmar Brunei Darussalam Nepal Cambodia Oman China Pakistan

East Timor Palestinian Territory, Occupied

Hong Kong Philippines India Qatar

IndonesiaSaudi ArabiaIran, Islamic Republic ofSingaporeIraqSri 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

KuwaitUzbekistanKyrgyzstanVietnamLao People's Democratic RepublicYemen.

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)

French Guiana

Greenland

United States

Uruguay

Venezuela

Grenada Virgin Islands, British Guadeloupe Virgin Island, US.

Guatemala

Australia includes the following:

Australia.

New Zealand and Other Oceania includes the following:

American Samoa Niue

Antarctica Norfolk Island

Bouvet Island Northern Mariana Islands

Christmas Island Palau

Cocos (Keeling) Islands Papua New Guinea

Cook Islands Pitcairn
Fiji Samoa

French Polynesia Solomon Islands

French Southern Territories South Georgia and the South Sandwich Islands

Guam Svalbard and Jan Mayen

Heard Island and McDonald Islands Tokelau
Kiribati Tonga
Marshall Islands Tuvalu

Micronesia, Federated States of United States Minor Outlying Islands

Nauru Vanuatu

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:

This applies to father's nationality only. Where mother's marital status is stated as 'never married', 'widowed', 'separated' or 'divorced' the General Register Office does not require father's details to register the birth, and as such this information is generally not provided. If a nationality is given for the father then the appropriate nationality code has been used. For the purposes of presenting data on father's nationality in this report, the categories 'Not Applicable' and 'Not Stated' are combined.

All Other Nationalities:

Where nationality is not recorded to any category listed above.

APPENDIX G

SOURCE DATA FOR FIGURES

Mortality Rates

| G1 | Percentage Distribution of Total Births by Mother's Marital Status, 2007–2011 |
|------------|--|
| G2 | Mother's County of Residence by Mother's Marital Status, Total Births |
| G3 | Percentage Distribution of Total Births by Mother's Nationality, 2007–2011 |
| G4 | Mother's Average Age by Mother's Nationality, Total Maternities |
| G5 | Age of Mother by Maternal Parity, Total Maternities |
| G6 | Percentage Distribution of Total Births to Primiparous Women by Maternal Age, 2007 and 2011 |
| G7 | Percentage Distribution of Total Births to Multiparous Women by Maternal Age, 2007 and 2011 |
| G8 | Birthweight (grams) for Primiparous Women |
| G 9 | Birthweight (grams) for Multiparous Women |
| G10 | Birthweight (grams), Numbers and Percentages, Total Live Births |
| G11 | Birthweight (grams) by Sex, Total Live Births |
| G12 | Gestational Age (weeks) at Delivery for Primiparous Women |
| G13 | Gestational Age (weeks) at Delivery for Multiparous Women |
| G14 | Method of Delivery by Mother's Postnatal Length of Stay, Singleton and Multiple Births |
| G15 | Method of Delivery by Parity, Total, Singleton and Multiple Births |
| G16 | Mother's County of Residence by Infant's Type of Feeding, Total Live Births |
| G17 | Mother's Nationality by Infant's Type of Feeding, Total Live Births |
| G18 | Birthweight (grams) Total Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and |

TABLE G1Percentage Distribution of Total Births by Mother's Marital Status, 2007–2011

| Marital Status | 2007 | 2008 | 2009 | 2010 | 2011 |
|----------------|------|------|------|------|------|
| Married | 66.4 | 66.1 | 66.1 | 65.6 | 65.3 |
| Single | 31.7 | 32.3 | 32.2 | 32.9 | 33.2 |
| Widowed | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Separated | 1.1 | 0.9 | 0.9 | 0.8 | 0.9 |
| Divorced | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 |

Note: 'Not Stated' values are not included in the calculation of percentages.

TABLE G2Mother's County of Residence by Mother's Marital Status, Total Births

| | Mother's Marital Status | | | | | | | | |
|--------------------------------------|-------------------------|--------|---------|-----------|----------|------------|--------|--|--|
| Frequency Row Per Cent Col. Per Cent | Married | Single | Widowed | Separated | Divorced | Not Stated | Total | | |
| Carlow | 633 | 362 | 0 | 7 | 4 | 1 | 1,007 | | |
| | 62.9 | 35.9 | 0.0 | 0.7 | 0.4 | 0.1 | 100 | | |
| | 1.3 | 1.5 | 0.0 | 1.1 | 1.0 | 1.6 | 1.4 | | |
| Cavan | 889 | 355 | 3 | 12 | 10 | 2 | 1,271 | | |
| | 69.9 | 27.9 | 0.2 | 0.9 | 0.8 | 0.2 | 100 | | |
| | 1.8 | 1.4 | 3.3 | 1.8 | 2.5 | 3.1 | 1.7 | | |
| Clare | 1,186 | 507 | 0 | 5 | 3 | 0 | 1,701 | | |
| | 69.7 | 29.8 | 0.0 | 0.3 | 0.2 | 0.0 | 100 | | |
| | 2.4 | 2.1 | 0.0 | 0.8 | 0.7 | 0.0 | 2.3 | | |
| Cork | 5,806 | 2,460 | 13 | 58 | 36 | 0 | 8,373 | | |
| | 69.3 | 29.4 | 0.2 | 0.7 | 0.4 | 0.0 | 100 | | |
| | 12.0 | 10.0 | 14.3 | 8.8 | 8.8 | 0.0 | 11.3 | | |
| Donegal | 1,458 | 701 | 2 | 24 | 4 | 1 | 2,190 | | |
| - | 66.6 | 32.0 | 0.1 | 1.1 | 0.2 | 0.0 | 100 | | |
| | 3.0 | 2.8 | 2.2 | 3.7 | 1.0 | 1.6 | 2.9 | | |
| Dublin City | 9,069 | 6,311 | 16 | 154 | 99 | 13 | 15,662 | | |
| • | 57.9 | 40.3 | 0.1 | 1.0 | 0.6 | 0.1 | 100 | | |
| | 18.7 | 25.6 | 17.6 | 23.5 | 24.3 | 20.3 | 21.1 | | |
| Dublin County | 4,163 | 1,718 | 9 | 64 | 40 | 9 | 6,003 | | |
| , | 69.3 | 28.6 | 0.1 | 1.1 | 0.7 | 0.1 | 100 | | |
| | 8.6 | 7.0 | 9.9 | 9.8 | 9.8 | 14.1 | 8.1 | | |
| Galway | 2,861 | 1,059 | 5 | 31 | 17 | 1 | 3,974 | | |
| | 72.0 | 26.6 | 0.1 | 0.8 | 0.4 | 0.0 | 100 | | |
| | 5.9 | 4.3 | 5.5 | 4.7 | 4.2 | 1.6 | 5.3 | | |
| Kerry | 1,353 | 603 | 6 | 24 | 15 | 0 | 2,001 | | |
| - , | 67.6 | 30.1 | 0.3 | 1.2 | 0.7 | 0.0 | 100 | | |
| | 2.8 | 2.4 | 6.6 | 3.7 | 3.7 | 0.0 | 2.7 | | |
| Kildare | 2,645 | 1,152 | 4 | 35 | 15 | 1 | 3,852 | | |
| | 68.7 | 29.9 | 0.1 | 0.9 | 0.4 | 0.0 | 100 | | |
| | 5.5 | 4.7 | 4.4 | 5.3 | 3.7 | 1.6 | 5.2 | | |
| Kilkenny | 976 | 421 | 2 | 12 | 7 | 0 | 1,418 | | |
| - , | 68.8 | 29.7 | 0.1 | 0.8 | 0.5 | 0.0 | 100 | | |
| | 2.0 | 1.7 | 2.2 | 1.8 | 1.7 | 0.0 | 1.9 | | |
| Laois | 837 | 484 | 2 | 18 | 8 | 2 | 1,351 | | |
| | 62.0 | 35.8 | 0.1 | 1.3 | 0.6 | 0.1 | 100 | | |
| | 1.7 | 2.0 | 2.2 | 2.7 | 2.0 | 3.1 | 1.8 | | |
| Leitrim | 346 | 125 | 0 | 1 | 2 | 0 | 474 | | |
| | 73.0 | 26.4 | 0.0 | 0.2 | 0.4 | 0.0 | 100 | | |
| | 0.7 | 0.5 | 0.0 | 0.2 | 0.5 | 0.0 | 0.6 | | |
| Limerick | 2,023 | 1,087 | 1 | 14 | 7 | 0 | 3,132 | | |
| | 64.6 | 34.7 | 0.0 | 0.4 | 0.2 | 0.0 | 100 | | |
| | 4.2 | 4.4 | 1.1 | 2.1 | 1.7 | 0.0 | 4.2 | | |
| Longford | 424 | 205 | 2 | 9 | 3 | 0 | 643 | | |
| | 65.9 | 31.9 | 0.3 | 1.4 | 0.5 | 0.0 | 100 | | |
| | 0.9 | 0.8 | 2.2 | 1.4 | 0.7 | 0.0 | 0.9 | | |
| Louth | 1,122 | 760 | 3 | 24 | 12 | 0 | 1,921 | | |
| - *- *- *- | 58.4 | 39.6 | 0.2 | 1.2 | 0.6 | 0.0 | 100 | | |
| | 2.3 | 3.1 | 3.3 | 3.7 | 2.9 | 0.0 | 2.6 | | |
| Mayo | 1,317 | 468 | 2 | 14 | 11 | 4 | 1,816 | | |
| | 72.5 | 25.8 | 0.1 | 0.8 | 0.6 | 0.2 | 100 | | |
| | 2.7 | 1.9 | 2.2 | 2.1 | 2.7 | 6.3 | 2.4 | | |
| | 2.1 | 1.5 | ۷.۷ | 2.1 | 2.1 | 0.3 | 2.4 | | |

TABLE G2Mother's County of Residence by Mother's Marital Status, Total Births (cont.)

| | | Mother's Marital Status | | | | | | | | | |
|---------------------------|---------|-------------------------|---------|-----------|----------|------------|--------|--|--|--|--|
| Frequency Row Per Cent | Married | Single | Widowed | Separated | Divorced | Not Stated | Total | | | | |
| Col. Per Cent | | | | | | | | | | | |
| Meath | 2,479 | 942 | 0 | 35 | 32 | 3 | 3,491 | | | | |
| | 71.0 | 27.0 | 0.0 | 1.0 | 0.9 | 0.1 | 100 | | | | |
| | 5.1 | 3.8 | 0.0 | 5.3 | 7.9 | 4.7 | 4.7 | | | | |
| Monaghan | 596 | 261 | 0 | 5 | 15 | 1 | 878 | | | | |
| | 67.9 | 29.7 | 0.0 | 0.6 | 1.7 | 0.1 | 100 | | | | |
| | 1.2 | 1.1 | 0.0 | 0.8 | 3.7 | 1.6 | 1.2 | | | | |
| Offaly | 790 | 428 | 4 | 7 | 5 | 0 | 1,234 | | | | |
| | 64.0 | 34.7 | 0.3 | 0.6 | 0.4 | 0.0 | 100 | | | | |
| | 1.6 | 1.7 | 4.4 | 1.1 | 1.2 | 0.0 | 1.7 | | | | |
| Roscommon | 602 | 226 | 0 | 9 | 3 | 0 | 840 | | | | |
| | 71.7 | 26.9 | 0.0 | 1.1 | 0.4 | 0.0 | 100 | | | | |
| | 1.2 | 0.9 | 0.0 | 1.4 | 0.7 | 0.0 | 1.1 | | | | |
| Sligo | 596 | 324 | 1 | 7 | 1 | 0 | 929 | | | | |
| | 64.2 | 34.9 | 0.1 | 0.8 | 0.1 | 0.0 | 100 | | | | |
| | 1.2 | 1.3 | 1.1 | 1.1 | 0.2 | 0.0 | 1.2 | | | | |
| Tipperary | 1,558 | 817 | 7 | 20 | 9 | 4 | 2,415 | | | | |
| | 64.5 | 33.8 | 0.3 | 0.8 | 0.4 | 0.2 | 100 | | | | |
| | 3.2 | 3.3 | 7.7 | 3.0 | 2.2 | 6.3 | 3.2 | | | | |
| Waterford | 1,075 | 709 | 4 | 21 | 13 | 0 | 1,822 | | | | |
| | 59.0 | 38.9 | 0.2 | 1.2 | 0.7 | 0.0 | 100 | | | | |
| | 2.2 | 2.9 | 4.4 | 3.2 | 3.2 | 0.0 | 2.4 | | | | |
| Westmeath | 940 | 464 | 2 | 10 | 5 | 0 | 1,421 | | | | |
| | 66.2 | 32.7 | 0.1 | 0.7 | 0.4 | 0.0 | 100 | | | | |
| | 1.9 | 1.9 | 2.2 | 1.5 | 1.2 | 0.0 | 1.9 | | | | |
| Wexford | 1,350 | 899 | 2 | 17 | 23 | 3 | 2,294 | | | | |
| | 58.8 | 39.2 | 0.1 | 0.7 | 1.0 | 0.1 | 100 | | | | |
| | 2.8 | 3.6 | 2.2 | 2.6 | 5.7 | 4.7 | 3.1 | | | | |
| Wicklow | 1,390 | 813 | 1 | 19 | 8 | 19 | 2,250 | | | | |
| | 61.8 | 36.1 | 0.0 | 0.8 | 0.4 | 0.8 | 100 | | | | |
| | 2.9 | 3.3 | 1.1 | 2.9 | 2.0 | 29.7 | 3.0 | | | | |
| Other | 8 | 6 | 0 | 0 | 0 | 0 | 14 | | | | |
| | 57.1 | 42.9 | 0.0 | 0.0 | 0.0 | 0.0 | 100 | | | | |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | |
| Total | 48,492 | 24,667 | 91 | 656 | 407 | 64 | 74,377 | | | | |
| | 65.2 | 33.2 | 0.1 | 0.9 | 0.5 | 0.1 | 100 | | | | |
| | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |

Note: See Appendix E for details of county of residence classification.

TABLE G3Percentage Distribution of Total Births by Mother's Nationality, 2007–2011

| Mother's Nationality | 2007 | 2008 | 2009 | 2010 | 2011 |
|----------------------|------|------|------|------|------|
| Ireland | 79.3 | 77.5 | 76.2 | 75.5 | 76.2 |
| UK | 3.0 | 2.7 | 2.6 | 2.7 | 2.3 |
| EU15 to EU27 | 7.2 | 9.3 | 10.3 | 11.3 | 11.6 |
| Africa | 3.6 | 3.4 | 3.4 | 3.0 | 2.6 |
| Asia | 3.6 | 3.7 | 4.0 | 3.9 | 4.0 |

Notes: Percentages calculated for the five most frequent nationalities in 2011 'Not Stated' values are not included in the calculation of percentages.

TABLE G4Mother's Average Age by Mother's Nationality, Total Maternities

| Mother's Nationality | Average Age in Years |
|-------------------------------|----------------------|
| Ireland | 32.1 |
| UK | 31.7 |
| EU15 (excluding Ireland & UK) | 33.3 |
| EU15 to EU27 | 29.1 |
| Rest of Europe | 31.1 |
| Africa | 31.4 |
| Asia | 31.3 |
| America | 32.1 |
| Australia | 34.3 |
| Total | 31.7 |

Notes: Average ages calculated for nationalities with greater than 100 births.

See Appendix F for a description of the classification system for nationality.

TABLE G5Age of Mother by Maternal Parity, Total Maternities

| | | | | | Materna | Parity | | | | |
|---------------------------|--------|--------|--------|-------|---------|--------|-----|----------------|---------------|--------|
| Frequency Row Per Cent | 0 | 1 | 2 | 3 | 4 | 5 | 6 | More than 6 | Not Stated | Total |
| Under 20 Years | 1,506 | 162 | 18 | 2 | 0 | 0 | 1 | 0 | 0 | 1,689 |
| | 89.2 | 9.6 | 1.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 100 |
| 20-24 Years | 4,526 | 2,195 | 488 | 109 | 25 | 3 | 0 | 0 | 0 | 7,346 |
| | 61.6 | 29.9 | 6.6 | 1.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 100 |
| 25-29 Years | 7,998 | 5,605 | 2,002 | 644 | 193 | 57 | 15 | 6 | 2 | 16,522 |
| | 48.4 | 33.9 | 12.1 | 3.9 | 1.2 | 0.3 | 0.1 | 0.0 | 0.0 | 100 |
| 30-34 Years | 10,113 | 9,787 | 4,349 | 1,363 | 434 | 177 | 73 | 48 | 2 | 26,346 |
| | 38.4 | 37.1 | 16.5 | 5.2 | 1.6 | 0.7 | 0.3 | 0.2 | 0.0 | 100 |
| 35-39 Years | 4,112 | 5,909 | 4,652 | 1,773 | 553 | 201 | 68 | 84 | 0 | 17,352 |
| | 23.7 | 34.1 | 26.8 | 10.2 | 3.2 | 1.2 | 0.4 | 0.5 | 0.0 | 100 |
| 40 Years and | 879 | 1,087 | 937 | 454 | 214 | 87 | 34 | 60 | 0 | 3,752 |
| Over | 23.4 | 29.0 | 25.0 | 12.1 | 5.7 | 2.3 | 0.9 | 1.6 | 0.0 | 100 |
| Not Stated | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100 |
| Total | 29,135 | 24,745 | 12,446 | 4,345 | 1,419 | 525 | 191 | 198 | 4 | 73,008 |
| | 39.9 | 33.9 | 17.0 | 6.0 | 1.9 | 0.7 | 0.3 | 0.3 | 0.0 | 100 |

TABLE G6Percentage Distribution of Total Births to Primiparous Women by Maternal Age, 2007 and 2011

| Maternal Age (years) | 2007 | 2011 |
|----------------------|------|------|
| Under 20 Years | 7.6 | 5.1 |
| 20-24 Years | 19.7 | 15.3 |
| 25-29 Years | 27.2 | 27.2 |
| 30-34 Years | 31.0 | 34.7 |
| 35-39 Years | 12.4 | 14.5 |
| 40 Years and Over | 2.1 | 3.2 |
| Total | 100 | 100 |

Note: 'Not Stated' values are not included in the calculation of percentages.

TABLE G7Percentage Distribution of Total Births to Multiparous Women by Maternal Age, 2007 and 2011

| Maternal Age (years) | 2007 | 2011 |
|----------------------|------|------|
| Under 20 Years | 0.5 | 0.4 |
| 20-24 Years | 7.3 | 6.4 |
| 25-29 Years | 20.4 | 19.4 |
| 30-34 Years | 36.5 | 37.0 |
| 35-39 Years | 29.3 | 30.2 |
| 40 Years and Over | 6.0 | 6.6 |
| Total | 100 | 100 |

Note: 'Not Stated' values are not included in the calculation of percentages.

TABLE G8Birthweight (grams) for Primiparous Women: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternitie |
|------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|------------|
| Total Births | | | | | | | | | | |
| 500-749 | 86 | 0.3 | 59 | 27 | 314.0 | 25 | 423.7 | 604.7 | 580.2 | 75 |
| 750-999 | 93 | 0.3 | 80 | 13 | 139.8 | 7 | 87.5 | 215.1 | 188.9 | 80 |
| 1000-1249 | 123 | 0.4 | 109 | 14 | 113.8 | 5 | 45.9 | 154.5 | 95.7 | 98 |
| 1250-1499 | 120 | 0.4 | 109 | 11 | 91.7 | 2 | 18.3 | 108.3 | 69.6 | 98 |
| 1500-1999 | 458 | 1.5 | 443 | 15 | 32.8 | 5 | 11.3 | 43.7 | 22.3 | 354 |
| 2000-2499 | 1,209 | 4.1 | 1,188 | 21 | 17.4 | 4 | 3.4 | 20.7 | 15.0 | 1,025 |
| 2500-2999 | 4,087 | 13.7 | 4,072 | 15 | 3.7 | 5 | 1.2 | 4.9 | 3.7 | 3,883 |
| 3000-3499 | 10,296 | 34.6 | 10,282 | 14 | 1.4 | 5 | 0.5 | 1.8 | 1.3 | 10,232 |
| 3500-3999 | 9,564 | 32.1 | 9,555 | 9 | 0.9 | 5 | 0.5 | 1.5 | 1.0 | 9,553 |
| 4000-4499 | 3,179 | 10.7 | 3,176 | 3 | 0.9 | 1 | 0.3 | 1.3 | 0.9 | 3,178 |
| 4500 and Over | 559 | 1.9 | 559 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 559 |
| Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 29,774 | 100 | 29,632 | 142 | 4.8 | 64 | 2.2 | 6.9 | 5.1 | 29,135 |
| Singleton Birtl | hs | | | | | | | | | |
| 500-749 | 64 | 0.2 | 40 | 24 | 375.0 | 15 | 375.0 | 609.4 | 583.3 | 64 |
| 750-999 | 67 | 0.2 | 56 | 11 | 164.2 | 4 | 71.4 | 223.9 | 187.5 | 67 |
| 1000-1249 | 76 | 0.3 | 66 | 10 | 131.6 | 2 | 30.3 | 157.9 | 135.1 | 76 |
| 1250-1499 | 73 | 0.3 | 64 | 9 | 123.3 | 1 | 15.6 | 137.0 | 73.5 | 73 |
| 1500-1999 | 268 | 0.9 | 254 | 14 | 52.2 | 5 | 19.7 | 70.9 | 38.6 | 268 |
| 2000-2499 | 850 | 3.0 | 829 | 21 | 24.7 | 3 | 3.6 | 28.2 | 21.3 | 850 |
| 2500-2999 | 3,674 | 12.9 | 3,659 | 15 | 4.1 | 4 | 1.1 | 5.2 | 4.1 | 3,674 |
| 3000-3499 | 10,149 | 35.6 | 10,135 | 14 | 1.4 | 5 | 0.5 | 1.9 | 1.3 | 10,149 |
| 3500-3999 | 9,544 | 33.5 | 9,535 | 9 | 0.9 | 5 | 0.5 | 1.5 | 1.0 | 9,544 |
| 4000-4499 | 3,177 | 11.1 | 3,174 | 3 | 0.9 | 1 | 0.3 | 1.3 | 0.9 | 3,177 |
| 4500 and Over | 559 | 2.0 | 559 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 559 |
| Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 |
| Total | 28,501 | 100 | 28,371 | 130 | 4.6 | 45 | 1.6 | 6.1 | 4.6 | 28,501 |
| Multiple Birth | S | | | | | | | | | |
| 500-749 | 22 | 1.7 | 19 | 3 | 136.4 | 10 | 526.3 | 590.9 | 571.4 | 11 |
| 750-999 | 26 | 2.0 | 24 | 2 | 76.9 | 3 | 125.0 | 192.3 | 192.3 | 13 |
| 1000-1249 | 47 | 3.7 | 43 | 4 | 85.1 | 3 | 69.8 | 148.9 | 24.4 | 22 |
| 1250-1499 | 47 | 3.7 | 45 | 2 | 42.6 | 1 | 22.2 | 63.8 | 63.8 | 25 |
| 1500-1999 | 190 | 14.9 | 189 | 1 | 5.3 | 0 | 0.0 | 5.3 | 0.0 | 86 |
| 2000-2499 | 359 | 28.2 | 359 | 0 | 0.0 | 1 | 2.8 | 2.8 | 0.0 | 175 |
| 2500-2999 | 413 | 32.4 | 413 | 0 | 0.0 | 1 | 2.4 | 2.4 | 0.0 | 209 |
| 3000-3499 | 147 | 11.5 | 147 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 83 |
| 3500-3999 | 20 | 1.6 | 20 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 9 |
| 4000-4499 | 2 | 0.2 | 2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1 |
| 4500 and Over | 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 |
| Total | 1,273 | 100 | 1,261 | 12 | 9.4 | 19 | 15.1 | 24.4 | 16.6 | 634 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

There were 4 maternities with parity unknown; these were excluded from this table.

TABLE G9 Birthweight (grams) for Multiparous Women: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternitie |
|------------------|-----------------|-------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|------------|
| Total Births | | | | | | | | | | |
| 500-749 | 62 | 0.1 | 39 | 23 | 371.0 | 18 | 461.5 | 661.3 | 631.6 | 60 |
| 750-999 | 70 | 0.2 | 55 | 15 | 214.3 | 12 | 218.2 | 385.7 | 283.3 | 64 |
| 1000-1249 | 87 | 0.2 | 72 | 15 | 172.4 | 5 | 69.4 | 229.9 | 151.9 | 78 |
| 1250-1499 | 99 | 0.2 | 85 | 14 | 141.4 | 4 | 47.1 | 181.8 | 119.6 | 83 |
| 1500-1999 | 454 | 1.0 | 427 | 27 | 59.5 | 10 | 23.4 | 81.5 | 39.2 | 361 |
| 2000-2499 | 1,189 | 2.7 | 1,176 | 13 | 10.9 | 12 | 10.2 | 21.0 | 10.2 | 1,018 |
| 2500-2999 | 4,622 | 10.4 | 4,603 | 19 | 4.1 | 5 | 1.1 | 5.2 | 3.5 | 4,337 |
| 3000-3499 | 13,634 | 30.6 | 13,621 | 13 | 1.0 | 11 | 0.8 | 1.8 | 1.2 | 13,504 |
| 3500-3999 | 16,003 | 35.9 | 15,994 | 9 | 0.6 | 9 | 0.6 | 1.1 | 0.6 | 15,986 |
| 4000-4499 | 7,018 | 15.7 | 7,012 | 6 | 0.9 | 1 | 0.1 | 1.0 | 1.0 | 7,017 |
| 4500 and | 1,360 | 3.0 | 1,360 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1,360 |
| Over | | | | | | | | | | |
| Not Stated | 1 | 0.0 | 1 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 | 1 |
| Total | 44,599 | 100 | 44,445 | 154 | 3.5 | 88 | 2.0 | 5.4 | 3.5 | 43,869 |
| Singleton Birt | hs | | | | | | | | | |
| 500-749 | 55 | 0.1 | 34 | 21 | 381.8 | 18 | 529.4 | 709.1 | 680.0 | 55 |
| 750-999 | 58 | 0.1 | 44 | 14 | 241.4 | 9 | 204.5 | 396.6 | 285.7 | 58 |
| 1000-1249 | 70 | 0.2 | 55 | 15 | 214.3 | 4 | 72.7 | 271.4 | 177.4 | 70 |
| 1250-1499 | 73 | 0.2 | 61 | 12 | 164.4 | 4 | 65.6 | 219.2 | 149.3 | 73 |
| 1500-1999 | 282 | 0.7 | 259 | 23 | 81.6 | 9 | 34.7 | 113.5 | 49.4 | 282 |
| 2000-2499 | 850 | 2.0 | 837 | 13 | 15.3 | 12 | 14.3 | 29.4 | 14.3 | 850 |
| 2500-2999 | 4,045 | 9.4 | 4,026 | 19 | 4.7 | 5 | 1.2 | 5.9 | 4.0 | 4,045 |
| 3000-3499 | 13,368 | 31.0 | 13,355 | 13 | 1.0 | 10 | 0.7 | 1.7 | 1.1 | 13,368 |
| 3500-3999 | 15,969 | 37.0 | 15,960 | 9 | 0.6 | 7 | 0.4 | 1.0 | 0.6 | 15,969 |
| 4000-4499 | 7,015 | 16.3 | 7,009 | 6 | 0.9 | 1 | 0.1 | 1.0 | 1.0 | 7,015 |
| 4500 and Over | 1,360 | 3.2 | 1,360 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 1,360 |
| Not Stated | 1 | 0.0 | 1 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 | 1 |
| Total | 43,146 | 100 | 43,001 | 145 | 3.4 | 80 | 1.9 | 5.2 | 3.3 | 43,146 |
| Multiple Birth | ıs | | | | | | | | | |
| 500-749 | 7 | 0.5 | 5 | 2 | 285.7 | 0 | 0.0 | 285.7 | 285.7 | 5 |
| 750-999 | 12 | 0.8 | 11 | 1 | 83.3 | 3 | 272.7 | 333.3 | 272.7 | 6 |
| 1000-1249 | 17 | 1.2 | 17 | 0 | 0.0 | 1 | 58.8 | 58.8 | 58.8 | 8 |
| 1250-1499 | 26 | 1.8 | 24 | 2 | 76.9 | 0 | 0.0 | 76.9 | 40.0 | 10 |
| 1500-1999 | 172 | 11.8 | 168 | 4 | 23.3 | 1 | 6.0 | 29.1 | 23.4 | 79 |
| 2000-2499 | 339 | 23.3 | 339 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 168 |
| 2500-2999 | 577 | 39.7 | 577 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 292 |
| 3000-3499 | 266 | 18.3 | 266 | 0 | 0.0 | 1 | 3.8 | 3.8 | 3.8 | 136 |
| 3500-3999 | 34 | 2.3 | 34 | 0 | 0.0 | 2 | 58.8 | 58.8 | 0.0 | 17 |
| 4000-4499 | 3 | 0.2 | 3 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 2 |
| 4500 and Over | 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 |
| Total | 1,453 | 100 | 1,444 | 9 | 6.2 | 8 | 5.5 | 11.7 | 8.3 | 723 |

Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births. There were 4 maternities with parity unknown; these were excluded from this table.

Notes:

TABLE G10Birthweight (grams), Numbers and Percentages, Total Live Births

| Birthweight (grams) | Number | Per Cent | | |
|-----------------------|--------|----------|--|--|
| Less than 1,500 grams | 608 | 0.8 | | |
| 1,500 - 2,499 grams | 3,234 | 4.4 | | |
| 2,500 - 4,499 grams | 68,318 | 92.2 | | |
| 4,500 grams and Over | 1,919 | 2.6 | | |
| Not Stated | 1 | 0.0 | | |
| Total | 74,080 | 100.0 | | |

TABLE G11Birthweight (grams) by Sex, Total Live Births

| | M | ale | Fer | nale | То | tal |
|---------------|--------|----------|--------|----------|--------|----------|
| | Number | Per Cent | Number | Per Cent | Number | Per Cent |
| 500-749 | 52 | 0.1 | 46 | 0.1 | 98 | 0.1 |
| 750-999 | 76 | 0.2 | 59 | 0.2 | 135 | 0.2 |
| 1000-1249 | 98 | 0.3 | 83 | 0.2 | 181 | 0.2 |
| 1250-1499 | 109 | 0.3 | 85 | 0.2 | 194 | 0.3 |
| 1500-1999 | 427 | 1.1 | 443 | 1.2 | 870 | 1.2 |
| 2000-2499 | 1,063 | 2.8 | 1,301 | 3.6 | 2,364 | 3.2 |
| 2500-2999 | 3,842 | 10.1 | 4,833 | 13.4 | 8,675 | 11.7 |
| 3000-3499 | 11,111 | 29.2 | 12,793 | 35.5 | 23,904 | 32.3 |
| 3500-3999 | 13,746 | 36.2 | 11,805 | 32.7 | 25,551 | 34.5 |
| 4000-4499 | 6,175 | 16.2 | 4,013 | 11.1 | 10,188 | 13.8 |
| 4500 and Over | 1,316 | 3.5 | 603 | 1.7 | 1,919 | 2.6 |
| Not Stated | 0 | 0.0 | 1 | 0.0 | 1 | 0.0 |
| Total | 38,015 | 100.0 | 36,065 | 100.0 | 74,080 | 100.0 |

TABLE G12Gestational Age (weeks) at Delivery for Primiparous Women: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|-----------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Less than 28 | 172 | 0.6 | 141 | 31 | 180.2 | 33 | 234.0 | 372.1 | 357.1 | 148 |
| 28-31 | 283 | 1.0 | 258 | 25 | 88.3 | 2 | 7.8 | 95.4 | 65.7 | 230 |
| 32-36 | 1,724 | 5.8 | 1,693 | 31 | 18.0 | 12 | 7.1 | 24.9 | 15.8 | 1,459 |
| 37-41 | 26,320 | 88.4 | 26,268 | 52 | 2.0 | 13 | 0.5 | 2.5 | 1.6 | 26,023 |
| 42 and Over | 1,273 | 4.3 | 1,271 | 2 | 1.6 | 4 | 3.1 | 4.7 | 2.4 | 1,273 |
| Not Stated | 2 | 0.0 | 1 | 1 | 500.0 | 0 | 0.0 | 500.0 | 500.0 | 2 |
| Total | 29,774 | 100 | 29,632 | 142 | 4.8 | 64 | 2.2 | 6.9 | 5.1 | 29,135 |
| Singleton Birth | S | | | | | | | | | |
| Less than 28 | 120 | 0.4 | 93 | 27 | 225.0 | 20 | 215.1 | 391.7 | 370.7 | 120 |
| 28-31 | 184 | 0.6 | 162 | 22 | 119.6 | 1 | 6.2 | 125.0 | 100.6 | 184 |
| 32-36 | 1,197 | 4.2 | 1,170 | 27 | 22.6 | 9 | 7.7 | 30.1 | 19.4 | 1,197 |
| 37-41 | 25,725 | 90.3 | 25,674 | 51 | 2.0 | 11 | 0.4 | 2.4 | 1.7 | 25,725 |
| 42 and Over | 1,273 | 4.5 | 1,271 | 2 | 1.6 | 4 | 3.1 | 4.7 | 2.4 | 1,273 |
| Not Stated | 2 | 0.0 | 1 | 1 | 500.0 | 0 | 0.0 | 500.0 | 500.0 | 2 |
| Total | 28,501 | 100 | 28,371 | 130 | 4.6 | 45 | 1.6 | 6.1 | 4.6 | 28,501 |
| Multiple Births | | | | | | | | | | |
| Less than 28 | 52 | 4.1 | 48 | 4 | 76.9 | 13 | 270.8 | 326.9 | 326.9 | 28 |
| 28-31 | 99 | 7.8 | 96 | 3 | 30.3 | 1 | 10.4 | 40.4 | 0.0 | 46 |
| 32-36 | 527 | 41.4 | 523 | 4 | 7.6 | 3 | 5.7 | 13.3 | 7.6 | 262 |
| 37-41 | 595 | 46.7 | 594 | 1 | 1.7 | 2 | 3.4 | 5.0 | 0.0 | 298 |
| 42 and Over | 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 |
| Total | 1,273 | 100 | 1,261 | 12 | 9.4 | 19 | 15.1 | 24.4 | 16.6 | 634 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

There were 4 maternities with parity unknown; these were excluded from this table.

TABLE G13Gestational Age (weeks) at Delivery for Multiparous Women: Total Births, Live Births, Stillbirths, Early Neonatal Deaths, Mortality Rates, and Maternities

| | Total Births | Total Births % | Live Births | Stillbirths | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* | Maternities |
|------------------------|-----------------|----------------------|----------------|-------------|---------------------|-----------------------------|---|---------------------------------|------------------|-------------|
| Total Births | | | | | | | | | | |
| Less than 28 | 135 | 0.3 | 101 | 34 | 251.9 | 26 | 257.4 | 444.4 | 418.6 | 127 |
| 28-31 | 250 | 0.6 | 223 | 27 | 108.0 | 11 | 49.3 | 152.0 | 105.5 | 213 |
| 32-36 | 1,956 | 4.4 | 1,909 | 47 | 24.0 | 25 | 13.1 | 36.8 | 17.2 | 1,682 |
| 37-41 | 41,201 | 92.4 | 41,159 | 42 | 1.0 | 25 | 0.6 | 1.6 | 0.9 | 40,790 |
| 42 and Over | 1,051 | 2.4 | 1,049 | 2 | 1.9 | 1 | 1.0 | 2.9 | 2.9 | 1,051 |
| Not Stated | 6 | 0.0 | 4 | 2 | 333.3 | 0 | 0.0 | 333.3 | 333.3 | 6 |
| Total | 44,599 | 100 | 44,445 | 154 | 3.5 | 88 | 2.0 | 5.4 | 3.5 | 43,869 |
| Singleton Birth | ş | | | | | | | | | |
| Less than 28 | 117 | 0.3 | 86 | 31 | 265.0 | 25 | 290.7 | 478.6 | 450.5 | 117 |
| 28-31 | 179 | 0.4 | 156 | 23 | 128.5 | 8 | 51.3 | 173.2 | 124.3 | 179 |
| 32-36 | 1,414 | 3.3 | 1,369 | 45 | 31.8 | 22 | 16.1 | 47.4 | 21.8 | 1,414 |
| 37-41 | 40,379 | 93.6 | 40,337 | 42 | 1.0 | 24 | 0.6 | 1.6 | 0.9 | 40,379 |
| 42 and Over | 1,051 | 2.4 | 1,049 | 2 | 1.9 | 1 | 1.0 | 2.9 | 2.9 | 1,051 |
| Not Stated | 6 | 0.0 | 4 | 2 | 333.3 | 0 | 0.0 | 333.3 | 333.3 | 6 |
| Total | 43,146 | 100 | 43,001 | 145 | 3.4 | 80 | 1.9 | 5.2 | 3.3 | 43,146 |
| Multiple Births | | | | | | | | | | |
| Less than 28 | 18 | 1.2 | 15 | 3 | 166.7 | 1 | 66.7 | 222.2 | 222.2 | 10 |
| 28-31 | 71 | 4.9 | 67 | 4 | 56.3 | 3 | 44.8 | 98.6 | 58.8 | 34 |
| 32-36 | 542 | 37.3 | 540 | 2 | 3.7 | 3 | 5.6 | 9.2 | 5.6 | 268 |
| 37-41 | 822 | 56.6 | 822 | 0 | 0.0 | 1 | 1.2 | 1.2 | 1.2 | 411 |
| 42 and Over | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | C |
| Not Stated | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | C |
| Total | 1,453 | 100 | 1,444 | 9 | 6.2 | 8 | 5.5 | 11.7 | 8.3 | 723 |

Notes: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

There were 4 maternities with parity unknown; these were excluded from this table.

TABLE G14Method of Delivery by Mother's Postnatal Length of Stay, Singleton and Multiple Births

| | | | Postnatal Le | ngth of Stay | | |
|------------------------------|-------------|-------------|--------------|--------------|------------|------------|
| Frequency Row Per Cent | 0-2 Days | 3-5 Days | 6-8 Days | 9+ Days | Not Stated | Total |
| Col. Per Cent | | | | | | |
| Singleton Births Spontaneous | 31,688 | 8,839 | 234 | 41 | 10 | 40,812 |
| Spontaneous | 77.6 | 21.7 | 0.6 | 0.1 | 0.0 | 100 |
| | 80.4 | 28.9 | 19.1 | 16.8 | 76.9 | 57.1 |
| Breech/Forceps | 191 | 110 | 10 | 0 | 0 | 311 |
| Бі сеспут бі серз | 61.4 | 35.4 | 3.2 | 0.0 | 0.0 | 100 |
| | 0.5 | 0.4 | 0.8 | 0.0 | 0.0 | 0.4 |
| Forceps | 1,571 | 1,340 | 42 | 11 | 0.0 | 2,964 |
| Тогсерз | 53.0 | 45.2 | 1.4 | 0.4 | 0.0 | 100 |
| | 4.0 | 4.4 | 3.4 | 4.5 | 0.0 | 4.1 |
| Vacuum extraction | 5,007 | 3,217 | 86 | 14 | 0.0 | 8,324 |
| vacuum extraction | 60.2 | 38.6 | 1.0 | 0.2 | 0.0 | 100 |
| | 12.7 | 10.5 | 7.0 | 5.7 | 0.0 | 11.6 |
| Caesarean section | 911 | 17,104 | 851 | 178 | 3 | 19,047 |
| Caesarean section | 4.8 | 89.8 | 4.5 | 0.9 | 0.0 | 19,047 |
| | 2.3 | 55.9 | 69.5 | 73.0 | 23.1 | 26.6 |
| Other specified & combined | 2.5 | | | 73.0 | | 25.0 |
| Other specified & combined | | 12.0 | 1 | | 0.0 | |
| | 84.0 0.1 | 12.0 0.0 | 4.0 0.1 | 0.0 | | 100 0.0 |
| Total | 39,389 | 30,613 | 1,224 | 244 | 0.0 | 71,483 |
| Total | 55.1 | 42.8 | 1,224 | 0.3 | 0.0 | 100 |
| | 100 | 100 | 100 | 100 | 100 | 100 |
| Multiple Births | 100 | 100 | | 100 | 100 | 100 |
| Spontaneous | 220 | 340 | 26 | 4 | 0 | 590 |
| | 37.3 | 57.6 | 4.4 | 0.7 | 0.0 | 100 |
| | 62.3 | 16.8 | 8.9 | 7.5 | 0.0 | 21.6 |
| Breech/Forceps | 37 | 74 | 3 | 1 | 0 | 115 |
| | 32.2 | 64.3 | 2.6 | 0.9 | 0.0 | 100 |
| | 10.5 | 3.7 | 1.0 | 1.9 | 0.0 | 4.2 |
| Forceps | 12 | 48 | 1 | 1 | 0 | 62 |
| | 19.4 | 77.4 | 1.6 | 1.6 | 0.0 | 100 |
| | 3.4 | 2.4 | 0.3 | 1.9 | 0.0 | 2.3 |
| Vacuum extraction | 47 | 109 | 12 | 0 | 0 | 168 |
| | 28.0 | 64.9 | 7.1 | 0.0 | 0.0 | 100 |
| | 13.3 | 5.4 | 4.1 | 0.0 | 0.0 | 6.2 |
| Caesarean section | 37 | 1,455 | 250 | 47 | 2 | 1,791 |
| | 2.1 | 81.2 | 14.0 | 2.6 | 0.1 | 100 |
| | 10.5 | 71.8 | 85.6 | 88.7 | 100.0 | 65.7 |
| Other specified & combined | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 3. Speemed & combined | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 353 | 2,026 | 292 | 53 | 2 | 2,726 |
| | 12.9 | 74.3 | 10.7 | 1.9 | 0.1 | 100 |
| | 100 | 100 | 10.7 | 100 | 100 | 100 |
| | 100 | | 100 | 100 | 100 | 100 |

Note: Domiciliary births, of which there were 168 births, are excluded from this table. See Section Six for detailed analysis.

TABLE G15Method of Delivery by Parity, Total, Singleton and Multiple Births

| | Total E | Births | Singleto | n Births | Multiple | Births |
|-----------------------------|---------|----------|----------|----------|----------|----------|
| | Number | Per cent | Number | Per cent | Number | Per cent |
| Total Births | | | | | | |
| Spontaneous | 41,568 | 55.9 | 40,978 | 57.2 | 590 | 21.6 |
| Breech/Forceps | 425 | 0.6 | 310 | 0.4 | 115 | 4.2 |
| Forceps | 3,026 | 4.1 | 2,964 | 4.1 | 62 | 2.3 |
| Vacuum extraction | 8,492 | 11.4 | 8,324 | 11.6 | 168 | 6.2 |
| Caesarean section | 20,837 | 28.0 | 19,046 | 26.6 | 1,791 | 65.7 |
| Other specified & combined | 25 | 0.0 | 25 | 0.0 | 0 | 0.0 |
| Total | 74,373 | 100 | 71,647 | 100 | 2,726 | 100 |
| Births to Primiparous Women | | | | | | |
| Spontaneous | 12,078 | 40.6 | 11,922 | 41.8 | 156 | 12.3 |
| Breech/Forceps | 210 | 0.7 | 162 | 0.6 | 48 | 3.8 |
| Forceps | 2,517 | 8.5 | 2,473 | 8.7 | 44 | 3.5 |
| Vacuum extraction | 6,157 | 20.7 | 6,053 | 21.2 | 104 | 8.2 |
| Caesarean section | 8,812 | 29.6 | 7,891 | 27.7 | 921 | 72.3 |
| Other specified & combined | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total | 29,774 | 100 | 28,501 | 100 | 1,273 | 100 |
| Births to Multiparous Women | | | | | | |
| Spontaneous | 29,490 | 66.1 | 29,056 | 67.3 | 434 | 29.9 |
| Breech/Forceps | 215 | 0.5 | 148 | 0.3 | 67 | 4.6 |
| Forceps | 509 | 1.1 | 491 | 1.1 | 18 | 1.2 |
| Vacuum extraction | 2,335 | 5.2 | 2,271 | 5.3 | 64 | 4.4 |
| Caesarean section | 12,025 | 27.0 | 11,155 | 25.9 | 870 | 59.9 |
| Other specified & combined | 25 | 0.1 | 25 | 0.1 | 0 | 0.0 |
| Total | 44,599 | 100 | 43,146 | 100 | 1,453 | 100 |

Note: There were 4 maternities with parity unknown; these were excluded from this table.

TABLE G16Mother's County of Residence by Infant's Type of Feeding, Total Live Births

| | | | Type of Feeding | | |
|---------------|------------|--------|-----------------|------------|--------|
| Frequency | Artificial | Breast | Combined | Not Stated | Total |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Carlow | 483 | 497 | 21 | 0 | 1,001 |
| | 48.3 | 49.7 | 2.1 | 0.0 | 100 |
| | 1.5 | 1.4 | 0.3 | 0.0 | 1.4 |
| Cavan | 660 | 556 | 49 | 0 | 1,265 |
| | 52.2 | 44.0 | 3.9 | 0.0 | 100 |
| | 2.0 | 1.6 | 0.8 | 0.0 | 1.7 |
| Clare | 948 | 633 | 106 | 0 | 1,687 |
| | 56.2 | 37.5 | 6.3 | 0.0 | 100 |
| | 2.9 | 1.8 | 1.7 | 0.0 | 2.3 |
| Cork | 3,311 | 4,407 | 615 | 0 | 8,333 |
| | 39.7 | 52.9 | 7.4 | 0.0 | 100 |
| | 10.0 | 12.8 | 9.7 | 0.0 | 11.3 |
| Donegal | 1,277 | 740 | 157 | 0 | 2,174 |
| | 58.7 | 34.0 | 7.2 | 0.0 | 100 |
| | 3.9 | 2.1 | 2.5 | 0.0 | 2.9 |
| Dublin City | 6,097 | 7,829 | 1,650 | 0 | 15,576 |
| | 39.1 | 50.3 | 10.6 | 0.0 | 100 |
| | 18.4 | 22.7 | 26.0 | 0.0 | 21.1 |
| Dublin County | 2,079 | 3,224 | 673 | 1 | 5,977 |
| | 34.8 | 53.9 | 11.3 | 0.0 | 100 |
| | 6.3 | 9.4 | 10.6 | 33.3 | 8.1 |
| Galway | 1,670 | 1,622 | 661 | 0 | 3,953 |
| · | 42.2 | 41.0 | 16.7 | 0.0 | 100 |
| | 5.0 | 4.7 | 10.4 | 0.0 | 5.3 |
| Kerry | 1,013 | 843 | 137 | 0 | 1,993 |
| | 50.8 | 42.3 | 6.9 | 0.0 | 100 |
| | 3.1 | 2.4 | 2.2 | 0.0 | 2.7 |
| Kildare | 1,665 | 1,782 | 378 | 0 | 3,825 |
| | 43.5 | 46.6 | 9.9 | 0.0 | 100 |
| | 5.0 | 5.2 | 6.0 | 0.0 | 5.2 |
| Kilkenny | 660 | 739 | 11 | 0 | 1,410 |
| | 46.8 | 52.4 | 0.8 | 0.0 | 100 |
| | 2.0 | 2.1 | 0.2 | 0.0 | 1.9 |
| Laois | 652 | 641 | 53 | 0 | 1,346 |
| | 48.4 | 47.6 | 3.9 | 0.0 | 100 |
| | 2.0 | 1.9 | 0.8 | 0.0 | 1.8 |
| Leitrim | 237 | 179 | 53 | 0 | 469 |
| | 50.5 | 38.2 | 11.3 | 0.0 | 100 |
| | 0.7 | 0.5 | 0.8 | 0.0 | 0.6 |
| Limerick | 1,930 | 980 | 194 | 0 | 3,104 |
| | 62.2 | 31.6 | 6.3 | 0.0 | 100 |
| | 5.8 | 2.8 | 3.1 | 0.0 | 4.2 |
| Longford | 318 | 291 | 28 | 0 | 637 |
| | 49.9 | 45.7 | 4.4 | 0.0 | 100 |
| | 1.0 | 0.8 | 0.4 | 0.0 | 0.9 |
| Louth | 1,029 | 717 | 161 | 0 | 1,907 |
| | 54.0 | 37.6 | 8.4 | 0.0 | 100 |
| | 3.1 | 2.1 | 2.5 | 0.0 | 2.6 |
| | 854 | 628 | 318 | 0 | 1,800 |
| Mayo | | | | | |
| Mayo | 47.4 | 34.9 | 17.7 | 0.0 | 100 |

TABLE G16Mother's County of Residence by Infant's Type of Feeding, Total Live Births (cont.)

| | | | Type of Feeding | | |
|---------------|----------------|----------------|-----------------|------------|--------|
| Frequency | Artificial | Breast | Combined | Not Stated | Total |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Meath | 1,520 | 1,669 | 284 | 1 | 3,474 |
| | 43.8 | 48.0 | 8.2 | 0.0 | 100 |
| | 4.6 | 4.8 | 4.5 | 33.3 | 4.7 |
| Monaghan | 479 | 343 | 51 | 0 | 873 |
| | 54.9 | 39.3 | 5.8 | 0.0 | 100 |
| | 1.4 | 1.0 | 0.8 | 0.0 | 1.2 |
| Offaly | 675 | 514 | 35 | 1 | 1,225 |
| | 55.1 | 42.0 | 2.9 | 0.1 | 100 |
| | 2.0 | 1.5 | 0.6 | 33.3 | 1.7 |
| Roscommon | 398 | 360 | 73 | 0 | 831 |
| | 47.9 | 43.3 | 8.8 | 0.0 | 100 |
| | 1.2 | 1.0 | 1.2 | 0.0 | 1.1 |
| Sligo | 439 | 330 | 153 | 0 | 922 |
| | 47.6 | 35.8 | 16.6 | 0.0 | 100 |
| | 1.3 | 1.0 | 2.4 | 0.0 | 1.2 |
| Tipperary | 1,289 | 1,048 | 56 | 0 | 2,393 |
| | 53.9 | 43.8 | 2.3 | 0.0 | 100 |
| | 3.9 | 3.0 | 0.9 | 0.0 | 3.2 |
| Waterford | 756 | 1,018 | 35 | 0 | 1,809 |
| | 41.8 | 56.3 | 1.9 | 0.0 | 100 |
| | 2.3 | 3.0 | 0.6 | 0.0 | 2.4 |
| Westmeath | 613 | 733 | 66 | 0 | 1,412 |
| | 43.4 | 51.9 | 4.7 | 0.0 | 100 |
| | 1.8 | 2.1 | 1.0 | 0.0 | 1.9 |
| Wexford | 1,128 | 1,051 | 104 | 0 | 2,283 |
| | 49.4 | 46.0 | 4.6 | 0.0 | 100 |
| | 3.4 | 3.1 | 1.6 | 0.0 | 3.1 |
| Wicklow | 968 | 1,056 | 210 | 0 | 2,234 |
| | 43.3 | 47.3 | 9.4 | 0.0 | 100 |
| | 2.9 | 3.1 | 3.3 | 0.0 | 3.0 |
| Other | 2.3 | 10 | 2 | 0.0 | 14 |
| - | 14.3 | 71.4 | 14.3 | 0.0 | 100 |
| | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 33,150 | 34,440 | 6,334 | 3 | 73,927 |
| - rotal | 33,130 44.8 | 34,440 46.6 | 8.6 | 0.0 | 100 |
| | 100 | 100 | 100 | 100 | 100 |
| | 100 | 100 | 100 | 100 | 100 |

Note: See Appendix E for details of county of residence classification. This table excludes Early Neonatal Deaths.

TABLE G17Mother's Nationality by Infant's Type of Feeding, Total Live Births

| | | | Type of Feeding | | |
|-------------------------------|------------|--------|-----------------|------------|--------|
| Frequency | Artificial | Breast | Combined | Not Stated | Total |
| Row Per Cent | | | | | |
| Ireland | 30,340 | 22,393 | 3,523 | 3 | 56,259 |
| | 53.9 | 39.8 | 6.3 | 0.0 | 100 |
| UK | 675 | 855 | 154 | 0 | 1,684 |
| | 40.1 | 50.8 | 9.1 | 0.0 | 100 |
| EU15 (excluding Ireland & UK) | 106 | 844 | 127 | 0 | 1,077 |
| | 9.8 | 78.4 | 11.8 | 0.0 | 100 |
| EU15 to EU27 Accession States | 1,067 | 6,528 | 972 | 0 | 8,567 |
| | 12.5 | 76.2 | 11.3 | 0.0 | 100 |
| Rest of Europe | 69 | 470 | 64 | 0 | 603 |
| | 11.4 | 77.9 | 10.6 | 0.0 | 100 |
| Africa | 292 | 972 | 647 | 0 | 1,911 |
| | 15.3 | 50.9 | 33.9 | 0.0 | 100 |
| Asia | 440 | 1,762 | 740 | 0 | 2,942 |
| | 15.0 | 59.9 | 25.2 | 0.0 | 100 |
| America | 99 | 439 | 75 | 0 | 613 |
| | 16.2 | 71.6 | 12.2 | 0.0 | 100 |
| Australia | 17 | 80 | 7 | 0 | 104 |
| | 16.3 | 76.9 | 6.7 | 0.0 | 100 |
| New Zealand and Other Oceania | 4 | 33 | 6 | 0 | 43 |
| | 9.3 | 76.7 | 14.0 | 0.0 | 100 |
| Multi-Nationality | 0 | 0 | 2 | 0 | 2 |
| | 0.0 | 0.0 | 100.0 | 0.0 | 100 |
| Other Nationality | 1 | 1 | 0 | 0 | 2 |
| | 50.0 | 50.0 | 0.0 | 0.0 | 100 |
| Not Stated | 40 | 63 | 17 | 0 | 120 |
| | 33.3 | 52.5 | 14.2 | 0.0 | 100 |
| Total | 33,150 | 34,440 | 6,334 | 3 | 73,927 |
| | 44.8 | 46.6 | 8.6 | 0.0 | 100 |

Notes: See Appendix F for a description of the classification system for nationality. This table excludes Early Neonatal Deaths.

TABLE G18Birthweight (grams): Total Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths, and Mortality Rates

| | Total Births | Total Births % | Ante- partum Stillbirths | Intra- partum Stillbirths | Not Stated | Stillbirth Rate* | Early Neonatal Deaths | Early Neonatal Mortality Rate* | Perinatal Mortality Rate* | Adjusted PMR* |
|------------------------|-----------------|----------------------|--------------------------------|---------------------------------|---------------|---------------------|-----------------------------|---|---------------------------------|------------------|
| Total Births | | | | | | | | | | |
| 500-749 | 148 | 0.2 | 38 | 9 | 3 | 337.8 | 43 | 438.8 | 628.4 | 601.4 |
| 750-999 | 163 | 0.2 | 25 | 3 | 0 | 171.8 | 19 | 140.7 | 288.3 | 226.7 |
| 1000-1249 | 210 | 0.3 | 24 | 4 | 1 | 138.1 | 10 | 55.2 | 185.7 | 118.6 |
| 1250-1499 | 219 | 0.3 | 21 | 3 | 1 | 114.2 | 6 | 30.9 | 141.6 | 91.8 |
| 1500-1999 | 913 | 1.2 | 39 | 4 | 0 | 47.1 | 15 | 17.2 | 63.5 | 31.7 |
| 2000-2499 | 2,398 | 3.2 | 28 | 6 | 0 | 14.2 | 16 | 6.8 | 20.9 | 12.6 |
| 2500-2999 | 8,709 | 11.7 | 31 | 2 | 1 | 3.9 | 10 | 1.2 | 5.1 | 3.6 |
| 3000-3499 | 23,931 | 32.2 | 24 | 2 | 1 | 1.1 | 16 | 0.7 | 1.8 | 1.2 |
| 3500-3999 | 25,569 | 34.4 | 15 | 3 | 0 | 0.7 | 15 | 0.6 | 1.3 | 0.8 |
| 4000-4499 | 10,197 | 13.7 | 8 | 0 | 1 | 0.9 | 2 | 0.2 | 1.1 | 1.0 |
| 4500 and | 1,919 | 2.6 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 1 | 0.0 | 0 | 0 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 |
| Total | 74,377 | 100 | 253 | 36 | 8 | 4.0 | 153 | 2.1 | 6.1 | 4.1 |
| Singleton Birt | | | | | | | | | | |
| 500-749 | 119 | 0.2 | 34 | 8 | 3 | 378.2 | 33 | 445.9 | 655.5 | 627.3 |
| 750-999 | 125 | 0.2 | 22 | 3 | 0 | 200.0 | 13 | 130.0 | 304.0 | 230.1 |
| 1000-1249 | 146 | 0.2 | 20 | 4 | 1 | 171.2 | 6 | 49.6 | 212.3 | 154.4 |
| 1250-1499 | 146 | 0.2 | 17 | 3 | 1 | 143.8 | 5 | 40.0 | 178.1 | 111.1 |
| 1500-1999 | 551 | 0.8 | 34 | 4 | 0 | 69.0 | 14 | 27.3 | 94.4 | 45.9 |
| 2000-2499 | 1,700 | 2.4 | 28 | 6 | 0 | 20.0 | 15 | 9.0 | 28.8 | 17.8 |
| 2500-2999 | 7,719 | 10.8 | 31 24 | 2 | 1 | 4.4 | 9 | 1.2 | 5.6 | 4.0 |
| 3000-3499 | 23,518 | 32.8 | | 2 | 1 | 1.1 | 15 | 0.6 | 1.8 | 1.2 |
| 3500-3999 | 25,515 | 35.6 | 15 | 3 | 0 | 0.7 | 13 | 0.5 | 1.2 | 0.8 |
| 4000-4499 | 10,192 1,919 | 14.2 2.7 | 8 | 0 | 1 0 | 0.9 0.0 | 2 | 0.2 0.0 | 1.1 0.0 | 1.0 0.0 |
| 4500 and Not Stated | 1,919 | 0.0 | 0 | 0 | 0 | 0.0 | 1 | 1000.0 | 1000.0 | 1000.0 |
| Total | 71,651 | 100 | 233 | 35 | 8 | 3.9 | 126 | 1.8 | 5.6 | 3.8 |
| Multiple Birth | | 100 | 233 | 35 | 8 | 3.9 | 126 | 1.8 | 5.6 | 3.8 |
| 500-749 | 29 | 1.1 | 4 | 1 | 0 | 172.4 | 10 | 416.7 | 517.2 | 500.0 |
| 750-999 | 38 | 1.4 | 3 | 0 | 0 | 78.9 | 6 | 171.4 | 236.8 | 216.2 |
| 1000-1249 | 64 | 2.3 | 4 | 0 | 0 | 62.5 | 4 | 66.7 | 125.0 | 34.5 |
| 1250-1499 | 73 | 2.7 | 4 | 0 | 0 | 54.8 | 1 | 14.5 | 68.5 | 55.6 |
| 1500-1999 | 362 | 13.3 | 5 | 0 | 0 | 13.8 | 1 | 2.8 | 16.6 | 11.1 |
| 2000-2499 | 698 | 25.6 | 0 | 0 | 0 | 0.0 | 1 | 1.4 | 1.4 | 0.0 |
| 2500-2999 | 990 | 36.3 | 0 | 0 | 0 | 0.0 | 1 | 1.0 | 1.0 | 0.0 |
| 3000-3499 | 413 | 15.2 | 0 | 0 | 0 | 0.0 | 1 | 2.4 | 2.4 | 2.4 |
| 3500-3999 | 54 | 2.0 | 0 | 0 | 0 | 0.0 | 2 | 37.0 | 37.0 | 0.0 |
| 4000-4499 | 5 | 0.2 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 4500 and | 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 |
| Total | 2,726 | 100 | 20 | 1 | 0 | 7.7 | 27 | 10.0 | 17.6 | 12.2 |

Note: * Rate per 1,000 births. For stillbirths, perinatal deaths and adjusted perinatal deaths, rates are calculated on total live births and stillbirths. For early neonatal deaths, rates are calculated on total live births.

APPENDIX H

DOMICILIARY BIRTHS, 2002–2011

INTRODUCTION

In the NPRS, domiciliary births are defined as planned home births attended by an independent midwife and are not associated with a hospital. Births delivered under hospital-administered home birth schemes are recorded as hospital births. Domiciliary births have been included, unless otherwise stated, in the analysis presented in previous sections.

Table H1 presents selected statistics for domiciliary births for the period 2002 to 2011.

- There were 168 domiciliary births in 2011 representing just 0.2 per cent of all births.
- The number of domiciliary births has decreased by 41.7 per cent over the decade while the decrease from 2010 is estimated at 5.1 percent. The lowest number of domiciliary births over the 10-year period was reported for 2009 (148) and the highest number reported in 2002 (288) (see Figure H1).
- The average age of mothers having domiciliary births has remained stable, ranging from 33.4 years in 2005 to 35.0 years in 2009 and is recorded as 33.7 years in 2011.
- For all domiciliary births in 2011, 29.2 per cent were to single mothers compared with 22.7 per cent in 2002.
- Women choosing a domiciliary delivery in 2011 had an average maternal parity of 1.5 previous hirths
- The percentage of women recording any breastfeeding was 95.1 per cent in 2002; this has increased to 99.4 per cent in 2011.
- Exclusively breastfeeding was reported for 98.2 per cent of domiciliary births in 2011.
- The average birthweight for domiciliary births in 2011 was 3,679.6 grams.

More detailed analysis of domiciliary births for 2011 is presented in Tables H2 to H7, including the maternal characteristics of maternal age, parity and marital status, as well as details of the perinatal characteristics and care including gestational age, birthweight and type of feeding.

TABLE H1 Trends in Domiciliary Births–Selected Statistics, 2002–2011

| | | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | % Cha | ange |
|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|-----------|
| | | | | | | | | | | | | 2002-2011 | 2010-2011 |
| General Characteristics | | | | | | | | | | | | | |
| Total Domiciliary Births | | 288 | 236 | 202 | 183 | 170 | 186 | 158 | 148 | 177 | 168 | -41.7 | -5.1 |
| Age of mother (years) ¹ | Avg | 34.1 | 34.0 | 34.3 | 33.4 | 34.3 | 34.1 | 34.3 | 35.0 | 33.8 | 33.7 | -1.2 | -0.3 |
| Single mothers ^{1, 2} | % | 22.7 | 28.0 | 29.2 | 23.5 | 20.0 | 16.1 | 25.3 | 22.3 | 24.4 | 29.2 | 28.6 | 19.7 |
| Maternal parity ¹ | Avg | 1.7 | 1.6 | 1.6 | 1.7 | 1.7 | 1.6 | 1.5 | 1.7 | 1.4 | 1.5 | -11.8 | 7.1 |
| Gestational age at delivery in weeks ¹ | Avg | 40.1 | 40.1 | 40.0 | 40.0 | 40.1 | 40.0 | 40.1 | 40.0 | 40.0 | 40.0 | -0.2 | 0.0 |
| Interval since last birth (years) ³ | Avg | 3.7 | 3.7 | 3.5 | 3.3 | 3.4 | 3.4 | 3.6 | 3.7 | 3.4 | 3.2 | -13.5 | -5.9 |
| Immunity to Rubella ¹ | % | 91.6 | 94.1 | 97.0 | 95.1 | 96.5 | 100.0 | 96.2 | 98.0 | 97.2 | 97.0 | 5.9 | -0.2 |
| Any Breastfeeding ^{4,5} | % | 95.1 | 95.8 | 98.0 | 94.0 | 98.2 | 96.2 | 95.6 | 97.3 | 97.2 | 99.4 | 4.5 | 2.3 |
| Exclusive Breastfeeding ⁴ | % | 94.0 | 94.1 | 97.5 | 94.0 | 97.1 | 95.7 | 95.6 | 97.3 | 96.6 | 98.2 | 4.5 | 1.7 |
| Combined Antenatal Care - Midwife and G.P./Hospital ⁶ | % | 57.7 | 66.1 | 64.4 | 71.6 | 76.5 | 60.8 | 77.8 | 99.3 | 98.9 | 93.5 | 62.0 | -5.5 |
| Birthweight (grams) ⁷ | Avg | 3730.1 | 3754.3 | 3738.4 | 3760.1 | 3742.2 | 3699.2 | 3667.1 | 3764.9 | 3833.9 | 3679.6 | -1.4 | -4.0 |
| Low Birthweight (<2,500 grams) ⁷ | % | 0.3 | 0.0 | 1.0 | 0.5 | 0.6 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 | -100.0 | - |

Notes: 'Not Stated' values are not included in the calculation of percentages.

There were no domiciliary multiple births in the years 2002 -2011.

¹ Based on maternities.

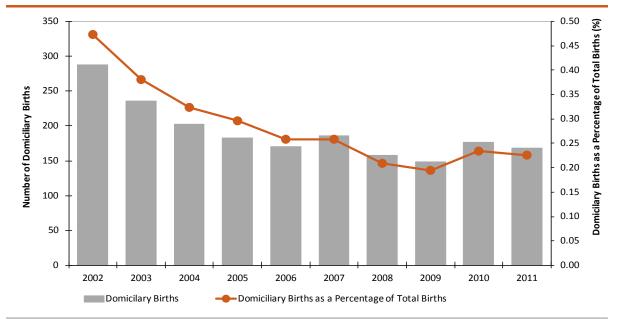
² Data recording marital status as 'never married' are classified as 'single' in this report.
³ Based on multiparous maternities.

⁴ Based on maternities with live births. Excludes early neonatal deaths.
⁵ Any breastfeeding includes type of feeding recorded as either breast or combined.

⁶ Based on maternities. This figure applies to the percentage of home births where antenatal care is stated as 'combined', rather than 'midwife only'.

⁷ Based on live births.

FIGURE H1 Number and Percentage of Domiciliary Births Reported, 2002–2011



Note:

See Table 2.2 and Table H1 for data.

TABLE H2 Age of Mother by Maternal Parity

| | | Maternal Parity | | | | | | | | | |
|--|------|-----------------|------|------|-------|------|-------|-------|--|--|--|
| Frequency Row Per Cent Col. Per Cent | 0 | 1 | 2 | 3 | 4 | 5 | 6 | Total | | | |
| < 25 Years | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | | | |
| | 66.7 | 33.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100 | | | |
| | 10.5 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 | | | |
| 25-29 Years | 13 | 9 | 8 | 2 | 0 | 0 | 0 | 32 | | | |
| | 40.6 | 28.1 | 25.0 | 6.3 | 0.0 | 0.0 | 0.0 | 100 | | | |
| | 34.2 | 16.4 | 18.2 | 7.7 | 0.0 | 0.0 | 0.0 | 19.0 | | | |
| 30-34 Years | 13 | 23 | 13 | 9 | 0 | 1 | 0 | 59 | | | |
| | 22.0 | 39.0 | 22.0 | 15.3 | 0.0 | 1.7 | 0.0 | 100 | | | |
| | 34.2 | 41.8 | 29.5 | 34.6 | 0.0 | 50.0 | 0.0 | 35.1 | | | |
| 35-39 Years | 5 | 17 | 20 | 13 | 2 | 0 | 1 | 58 | | | |
| | 8.6 | 29.3 | 34.5 | 22.4 | 3.4 | 0.0 | 1.7 | 100 | | | |
| | 13.2 | 30.9 | 45.5 | 50.0 | 100.0 | 0.0 | 100.0 | 34.5 | | | |
| 40 Years and Over | 3 | 4 | 3 | 2 | 0 | 1 | 0 | 13 | | | |
| | 23.1 | 30.8 | 23.1 | 15.4 | 0.0 | 7.7 | 0.0 | 100 | | | |
| | 7.9 | 7.3 | 6.8 | 7.7 | 0.0 | 50.0 | 0.0 | 7.7 | | | |
| Total | 38 | 55 | 44 | 26 | 2 | 2 | 1 | 168 | | | |
| | 22.6 | 32.7 | 26.2 | 15.5 | 1.2 | 1.2 | 0.6 | 100 | | | |
| | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |

TABLE H3Mother's Marital Status by Age of Mother

| Frequency | < 25 | 25-29 | 30-34 | 35-39 | 40+ | Total |
|---------------|-------|-------|-------|-------|-------|-------|
| Row Per Cent | Years | Years | Years | Years | Years | |
| Col. Per Cent | | | | | | |
| Married | 1 | 14 | 43 | 47 | 9 | 114 |
| | 0.9 | 12.3 | 37.7 | 41.2 | 7.9 | 100 |
| | 16.7 | 43.8 | 72.9 | 81.0 | 69.2 | 67.9 |
| Single | 5 | 18 | 14 | 10 | 2 | 49 |
| | 10.2 | 36.7 | 28.6 | 20.4 | 4.1 | 100 |
| | 83.3 | 56.3 | 23.7 | 17.2 | 15.4 | 29.2 |
| Other* | 0 | 0 | 2 | 1 | 2 | 5 |
| | 0.0 | 0.0 | 40.0 | 20.0 | 40.0 | 100 |
| | 0.0 | 0.0 | 3.4 | 1.7 | 15.4 | 3.0 |
| Total | 6 | 32 | 59 | 58 | 13 | 168 |
| | 3.6 | 19.0 | 35.1 | 34.5 | 7.7 | 100 |
| | 100 | 100 | 100 | 100 | 100 | 100 |

Note: * Includes widowed, separated, divorced and 'not stated'.

TABLE H4Age of Mother by Gestational Age (weeks) at Delivery

| | | Gestational Age (weeks) | |
|--|-------|-------------------------|-------|
| Frequency Row Per Cent Col. Per Cent | 37-41 | 42 and Over | Total |
| < 25 Years | 6 | 0 | 6 |
| | 100.0 | 0.0 | 100 |
| | 3.8 | 0.0 | 3.6 |
| 25-29 Years | 30 | 2 | 32 |
| | 93.8 | 6.3 | 100 |
| | 18.9 | 22.2 | 19.0 |
| 30-34 Years | 55 | 4 | 59 |
| | 93.2 | 6.8 | 100 |
| | 34.6 | 44.4 | 35.1 |
| 35-39 Years | 55 | 3 | 58 |
| | 94.8 | 5.2 | 100 |
| | 34.6 | 33.3 | 34.5 |
| 40 Years and Over | 13 | 0 | 13 |
| | 100.0 | 0.0 | 100 |
| | 8.2 | 0.0 | 7.7 |
| Total | 159 | 9 | 168 |
| | 94.6 | 5.4 | 100 |
| | 100 | 100 | 100 |

TABLE H5 Birthweight (grams) by Gestational Age (weeks) at Delivery

| | | Gestational Age (weeks) | |
|--|-------|-------------------------|-------|
| Frequency Row Per Cent Col. Per Cent | 37-41 | 42 and Over | Total |
| <3000 | 7 | 1 | 8 |
| | 87.5 | 12.5 | 100 |
| | 4.4 | 11.1 | 4.8 |
| 3000-3499 | 50 | 1 | 51 |
| | 98.0 | 2.0 | 100 |
| | 31.4 | 11.1 | 30.4 |
| 3500-3999 | 65 | 4 | 69 |
| | 94.2 | 5.8 | 100 |
| | 40.9 | 44.4 | 41.1 |
| 4000-4499 | 31 | 2 | 33 |
| | 93.9 | 6.1 | 100 |
| | 19.5 | 22.2 | 19.6 |
| 4500 and Over | 6 | 1 | 7 |
| | 85.7 | 14.3 | 100 |
| | 3.8 | 11.1 | 4.2 |
| Total | 159 | 9 | 168 |
| | 94.6 | 5.4 | 100 |
| | 100 | 100 | 100 |

TABLE H6 Mother's Occupation by Birthweight

| | | | Birthweight | (grams) | | |
|--|------------|-------------|-------------|--------------|--------------|------------|
| Frequency | <3000 | 3000- | 3500- | 4000- | 4500 and | Total |
| Row Per Cent Col. Per Cent | | 3499 | 3999 | 4499 | Over | |
| Farmers and Farm Managers | 0 | 1 | 1 | 0 | 0 | 2 |
| ranners and ranni Managers | 0.0 | 50.0 | 50.0 | 0.0 | 0.0 | 100 |
| | 0.0 | 2.0 | 1.4 | 0.0 | 0.0 | 1.2 |
| Other Agricultural Occupations & Fishermen | 0 | 1 | 1 | 0 | 0 | 2 |
| | 0.0 | 50.0 | 50.0 | 0.0 | 0.0 | 100 |
| | 0.0 | 2.0 | 1.4 | 0.0 | 0.0 | 1.2 |
| Higher Professional | 0 | 3 | 4 | 1 | 1 | 9 |
| | 0.0 | 33.3 | 44.4 | 11.1 | 11.1 | 100 |
| | 0.0 | 5.9 | 5.8 | 3.0 | 14.3 | 5.4 |
| Lower Professional | 1 | 13 | 19 | 11 | 3 | 47 |
| | 2.1 | 27.7 | 40.4 | 23.4 33.3 | 6.4 | 100 |
| Employers & Managers | 12.5 2 | 25.5 1 | 27.5 4 | 33.3 | 42.9 0 | 28.0 9 |
| Employers & Managers | 22.2 | 11.1 | 44.4 | 22.2 | 0.0 | 100 |
| | 25.0 | 2.0 | 5.8 | 6.1 | 0.0 | 5.4 |
| Intermediate Non-Manual Workers | 2 | 4 | 6 | 0.1 | 1 | 13 |
| memerate non manadi noneis | 15.4 | 30.8 | 46.2 | 0.0 | 7.7 | 100 |
| | 25.0 | 7.8 | 8.7 | 0.0 | 14.3 | 7.7 |
| Other Non-Manual Workers | 1 | 13 | 12 | 2 | 1 | 29 |
| | 3.4 | 44.8 | 41.4 | 6.9 | 3.4 | 100 |
| | 12.5 | 25.5 | 17.4 | 6.1 | 14.3 | 17.3 |
| Skilled Manual Workers | 0 | 0 | 2 | 4 | 0 | 6 |
| | 0.0 | 0.0 | 33.3 | 66.7 | 0.0 | 100 |
| | 0.0 | 0.0 | 2.9 | 12.1 | 0.0 | 3.6 |
| Unemployed | 0 | 1 | 0 | 0 | 1 | 2 |
| | 0.0 0.0 | 50.0 2.0 | 0.0 0.0 | 0.0 0.0 | 50.0 14.3 | 100 1.2 |
| Not Classifiable | 0.0 | 2.0 | 2 | 2 | 14.3 | 6 |
| NOT CIASSINADIC | 16.7 | 16.7 | 33.3 | 33.3 | 0.0 | 100 |
| | 12.5 | 2.0 | 2.9 | 6.1 | 0.0 | 3.6 |
| Home Duties | 1 | 13 | 18 | 11 | 0.0 | 43 |
| | 2.3 | 30.2 | 41.9 | 25.6 | 0.0 | 100 |
| | 12.5 | 25.5 | 26.1 | 33.3 | 0.0 | 25.6 |
| Total | 8 | 51 | 69 | 33 | 7 | 168 |
| | 4.8 | 30.4 | 41.1 | 19.6 | 4.2 | 100 |
| | 100 | 100 | 100 | 100 | 100 | 100 |

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

TABLE H7Mother's Occupation by Type of Feeding

| | | Type of Fe | eding | |
|--|------------|--------------|----------|------------|
| Frequency | Artificial | Breast | Combined | Total |
| Row Per Cent | | | | |
| Col. Per Cent | | | | |
| Farmers and Farm Managers | 0 | 2 | 0 | 2 |
| | 0.0 | 100.0 | 0.0 | 100 |
| | 0.0 | 1.2 | 0.0 | 1.2 |
| Other Agricultural Occupations & Fishermen | 0 | 2 | 0 | 2 |
| | 0.0 | 100.0 | 0.0 | 100 |
| U'ale a Danfara'a a d | 0.0 | 1.2 | 0.0 | 1.2 |
| Higher Professional | 0 0.0 | 9 | 0 0.0 | 9 |
| | | 100.0 5.5 | 0.0 | 100 5.4 |
| Lower Professional | 0.0 | 5.5 47 | 0.0 | 5.4 47 |
| Lower Professional | 0.0 | 100.0 | 0.0 | 100 |
| | 0.0 | 28.5 | 0.0 | 28.0 |
| Employers & Managers | 0.0 | 8 | 1 | 9 |
| Employers a Managers | 0.0 | 88.9 | 11.1 | 100 |
| | 0.0 | 4.8 | 50.0 | 5.4 |
| Intermediate Non-Manual Workers | 0 | 13 | 0 | 13 |
| | 0.0 | 100.0 | 0.0 | 100 |
| | 0.0 | 7.9 | 0.0 | 7.7 |
| Other Non-Manual Workers | 1 | 28 | 0 | 29 |
| | 3.4 | 96.6 | 0.0 | 100 |
| | 100.0 | 17.0 | 0.0 | 17.3 |
| Skilled Manual Workers | 0 | 6 | 0 | 6 |
| | 0.0 | 100.0 | 0.0 | 100 |
| | 0.0 | 3.6 | 0.0 | 3.6 |
| Unemployed | 0 | 2 | 0 | 2 |
| | 0.0 | 100.0 | 0.0 | 100 |
| Not Classificable | 0.0 | 1.2 | 0.0 | 1.2 |
| Not Classifiable | 0 0.0 | 6 100.0 | 0 0.0 | 6 100 |
| | 0.0 | 3.6 | 0.0 | 3.6 |
| Home Duties | 0.0 | 42 | 0.0 | 43 |
| Home Daties | 0.0 | 97.7 | 2.3 | 100 |
| | 0.0 | 25.5 | 50.0 | 25.6 |
| Total | 1 | 165 | 2 | 168 |
| | 0.6 | 98.2 | 1.2 | 100 |
| | 100 | 100 | 100 | 100 |
| | | | | |

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

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