

Report on

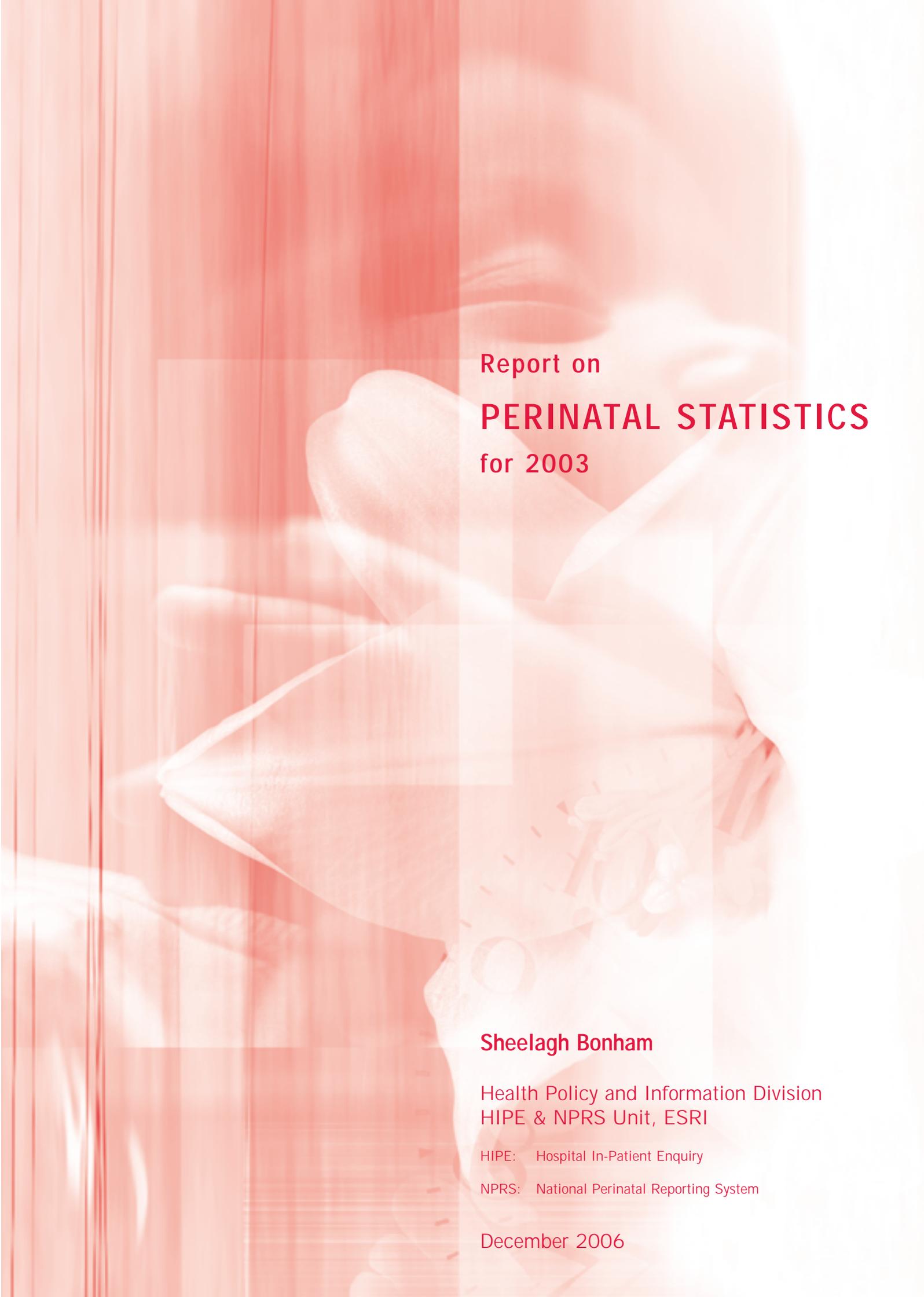
PERINATAL STATISTICS

for 2003

Health Policy and Information Division

December 2006





Report on
PERINATAL STATISTICS
for 2003

Sheelagh Bonham

Health Policy and Information Division
HIPE & NPRS Unit, ESRI

HIPE: Hospital In-Patient Enquiry

NPRS: National Perinatal Reporting System

December 2006

Acknowledgements

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

Data on just over 61,989 births were analysed for this report. For each of these records additional information, apart from that required to register each birth, had to be collected in each hospital and by each independent midwife. This information was compiled and validated by the National Perinatal Reporting System (NPRS) within the Health Policy & Information Division to create a national database, which has been analysed for the production of this report of perinatal events.

In addition to funding the work of the HIPE & NPRS Unit at the ESRI, the Department of Health and Children continues to provide essential support for the operation and development of the NPRS. We would like to acknowledge, in particular, the advice and assistance provided by Hugh Magee and Ciara O'Shea in the preparation of this report. We are also very grateful to Dr. Michael Robson, Master, National Maternity Hospital, Dublin for his valuable input and comments on an earlier draft of this report.

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We hope that the production of this report by the ESRI will allow national statistics on perinatal events to be observed over time. This report highlights the richness of the resource offered by high quality, timely and accurate data for research and evaluation of perinatal events, in particular, and health and health care services at the population level.

Sheelagh Bonham

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Executive Summary

The principal aim of the National Perinatal Reporting System (NPRS) is the provision of national statistics on perinatal events in Ireland. Since 1999, The Economic and Social Research Institute (ESRI) has been contracted by the Department of Health and Children to oversee the collection, processing, management and reporting of data submitted to the NPRS. In this report, data on pregnancy outcomes, with particular reference to perinatal mortality and important aspects of perinatal care, are presented for 2003. In addition, descriptive social and biological characteristics of mothers giving birth and babies born in 2003 are recorded.

In 2003, 61,989 births were notified to the NPRS, an increase of 1.8 per cent since 2002 and 14.1 per cent since 1999. Of these, 357 were stillbirths giving a stillbirth rate of 5.8 per 1,000 live and still births in 2003. The stillbirth rate was slightly lower in previous years: 5.6 per 1,000 live and still births in 2002 and 5.3 per 1,000 live and still births in 1999. There were 177 early neonatal deaths resulting in an early neonatal death rate of 2.9 per 1,000 live births in 2003. This rate represents an increase of 0.1 per 1,000 live births from 2002 (early neonatal death rate of 2.8 per 1,000 live births), but was unchanged from the rate reported in 1999. The perinatal mortality rate was 8.6 per 1,000 live and still births in 2003, an increase of 0.2 per 1,000 from 2002 (perinatal mortality rate of 8.4 per 1,000 live and still births). The 2003 perinatal mortality rate was also higher than that reported in 1999 (8.2 per 1,000 live and still births).

The average birthweight of babies born in 2003 was estimated at 3,471grams, virtually no change from 2002. Average gestational age at delivery in 2003 of 39.4 weeks remained quite constant since 1999. Low birthweight babies (weighing less than 2,500grams) accounted for 5.1 per cent of all births in 2003, a slight increase from 5.0 per cent in 1999. The twinning rate for 2003 was 14.3 per 1,000 maternities, and comprised 873 twin births and 26 triplet births.

In 2003, single mothers accounted for 30 per cent of all women giving birth, which has remained relatively stable over the 5-year period since 1999. Mother's average age increased slightly from 30.1 years in 1999 to 30.6 years in 2003. There has also been a small increase in the average age of single mothers, which was just under 25 years in 1999 and 26 years in 2003. The average maternal parity fell slightly from 1.10 previous births in 1999 to 1.05 in 2003. The trend in the breastfeeding rate continues to be upward at 41.3 per cent in 2003, compared with 41.1 per cent in 2002.

Compared to previous years, 2003 saw a decrease in the number of home births attended by independent domiciliary midwives, (288 in 2002 compared to 236 in 2003 - a decrease of 18.1 per cent in 2003 relative to the previous year). Over the period 1999 to 2003 the number of births attended by independent domiciliary midwives births fell by 4.1 per cent (from 246 in 1999 to 236 in 2003).

Delivery by caesarean section was estimated at 24.2 per cent of all live births in 2003, compared with 22.4 per cent in 2002 and 20.4 per cent in 1999. In 2003, 23.1 per cent of singleton births were delivered by caesarean section, an increase of 1.5 percentage points from 2002. The 2003 caesarean section rate for singleton births also exceeded that reported in 1999 (19.7 per cent of all live singleton births). The percentage of multiple births delivered by caesarean section in 2003 was 58.3 per cent, an increase of 8.8 percentage points from 2002 and over 10 percentage points higher than that reported in 1999. The proportion of all births delivered by caesarean section increased by 3.7 percentage points relative to that estimated for 1999. The increase in the caesarean section rate between 1999 and 2003 was greater for multiple births compared to singleton births.

Average lengths of stay for both mother and infant continued to decline in 2003. Infant's length of stay decreased from an average of 4.3 days in 1999 to 3.8 days in 2003, while mother's average total length of stay fell from 4.7 days in 1999 to 4.0 days in 2003.

The proportion of early neonatal deaths undergoing post-mortem examinations fell from 73.8 per cent in 1992 to a low of 33.6 per cent in 2001. This estimate increased to 42.1 per cent in 2002 but fell to 41.7 per cent in 2003.



Section 1
Introduction

Section 1 Introduction

Aims

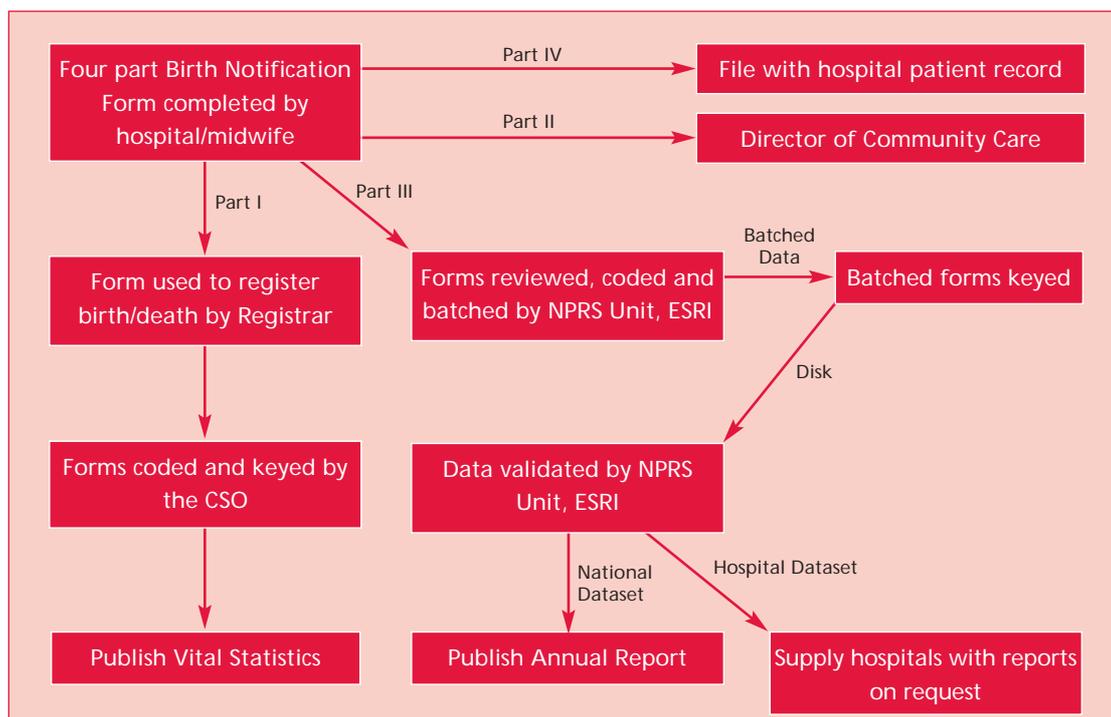
This report of the National Perinatal Reporting System (NPRS) has as its principal aim the provision of national statistics on perinatal events for the year 2003. More specifically, the report aims to describe the fundamental social and biological characteristics of mothers and their babies, to report on pregnancy outcomes with particular reference to perinatal mortality, and to highlight important aspects of perinatal care. Although great strides have been made in reducing infant and perinatal mortality during the past twenty years, the perinatal period continues to be a time of relatively high mortality. Set in this context, the importance of monitoring variables related to perinatal health becomes evident.

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

Data Collection and Processing

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

Figure 1.1
National Perinatal Reporting System, Diagrammatic View



The data collected by the National Perinatal Reporting System can be logically grouped into demographic, clinical and administrative data. The data collected by the NPRS for 2003 include:

- **Demographic Data**
Date of infant's birth; sex of infant; multiple birth indicator;
Date of father's birth; father's county of residence; father's occupation;
Date of mother's birth; mother's county of residence; mother's occupation;
Marital status of mother and date of present marriage.
- **Clinical Data**
Infant's birthweight and period of gestation; mother's obstetric history;
Autopsy indicator; whether stillbirth occurred before or during labour;
Main cause of death and one secondary cause of death for infant;
Maternal immunity to rubella; method of delivery;
Infant's BCG vaccination;
Main maternal disease or condition and one secondary maternal disease or condition affecting the infant or foetus;
Main disease or congenital malformation and one secondary disease or congenital malformation affecting the infant or foetus.
- **Administrative Data**
Hospital number; case number (unique to hospital of birth);
Type of birth indicator; place of birth;
Date of last birth (live or still);
Type of death indicator; place of death;
Type of antenatal care received; date of first visit to doctor and hospital during pregnancy;
Type of feeding; pre-booked admission indicator; dates of mother's admission and discharge;
date of infant's discharge;
Infant transfer indicator; hospital number for hospital to which infant was transferred.

Occupations are coded according to the Central Statistics Office system of socio-economic group classification (see Appendix C, page 101). Diseases and cause of death are coded using the ninth revision of the International Classification of Diseases (ICD) and according to the guidelines set out by the World Health Organisation (see Appendix D, page 103). On completion of data entry, the NPRS Unit in The Health Policy and Information Division at the ESRI undertakes checks for data coverage and validation.

Format and Contents

This report presents a set of national tabulations for perinatal events for 2003 indicating frequencies, stillbirth rates, early neonatal death rates, and perinatal mortality rates set out for a number of the most important social, biological and health care variables. The data are presented in four main sections covering selected trends, general characteristics, perinatal care and perinatal outcomes. The definitions for parameters reported in these sections are contained in Appendix A. Section 2 (Selected Trends) documents significant trends in the principal variables for the years 1991-1993 and 1999-2003. Section 3 contains tables relating to the following variables: maternal age; parity; marital status; socio-economic group of mother; socio-economic group of father; distribution of previous stillbirths; birthweight (by sex); twinning rate; gestational age; interval since last birth and month of birth.

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

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

Completeness and Reliability

Coverage

The National Perinatal Reporting System covers all live births and stillbirths occurring in Ireland. However, there are differences in the vital statistics published by the Central Statistics Office and the data presented in this report. The reasons for this are outlined below.

Missing Values

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

Two new variables, nationality and country of residence for both the mother and father, were introduced in May 2003. These variables will be reported in the national statistics from 2004 onwards. Father's date of birth and mother's occupation were included for the first time in the report for 1999. For 2003, father's date of birth is missing for 11.0 per cent of births where mother's marital status is married.¹ Missing values for mother's occupation remains very low as just 1.6 per cent of births in 2003 were missing this information.

The majority of variables are virtually complete in the 2003 dataset with 'gestational age at delivery' and 'infant's birthweight' missing for only 14 records. 'Method of delivery' was missing for 9 records while 'infant's feeding' has been recorded as 'not stated' for 20 births. Information on hospital length of stay has also improved with mother's antenatal and postnatal lengths of stay missing for just 10 and 17 records respectively. Infant's length of stay is missing for less than 1 per cent of records.

Notwithstanding improvements in the completeness of returns, the elimination of 'missing values' for all variables continues to be an important objective for the development of the NPRS.

Delivery of Antenatal Care

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

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

Where 'antenatal care this pregnancy' is indicated as 'combined care', it is expected that the dates of first visit to each health professional is recorded. While over 75 per cent of all births in 2003 were recorded as receiving combined antenatal care, over 40 per cent of these births recorded 'date of first visit to doctor' as 'not known'. The absence of this data regrettably means that the presentation of the timing of first contact with health professionals within this category is somewhat unbalanced.

¹ It should be noted that where a mother's marital status is single, widowed, separated or divorced the General Register Office (GRO) does not require father's details to register the birth, and as such this information is generally not provided.

The proportion of mother's attending antenatal care during the first 12 weeks is, therefore, estimated at around 45 per cent of all births, which is low by European standards.

A review of data reported for 'Gestational Age at First Visit to Doctor or Hospital During Pregnancy' was conducted in 2006 and a revised algorithm was used to estimate this indicator for 2003. These data are presented in Appendix I of this report and include revised tables from 1999-2003 data.

Area of Residence

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

Data Quality

The NPRS seeks to compile an accurate, complete and up-to-date database on perinatal events over a specified time period. A key issue in addressing the quality of data collected by the NPRS are differences arising between the vital statistics tables compiled by the CSO and the NPRS data. Differences in data reported by these two systems for perinatal events may arise for a variety of reasons. One reason for differences is that information is not always obtained from the same sources. This is particularly evident in the data for cause of death as the CSO and the NPRS have to use different sources for the compilation of these data. The CSO does not obtain information on maternal diseases or conditions affecting the foetus or infant while the NPRS does not have access to coroner's certificates relating to neonatal deaths. The CSO also uses a separate notification form (Form 103) for collecting information on late foetal deaths.

Different data sources are also a factor in explaining why there are differences in the rate of stillbirth reported by the CSO and the NPRS. In 1995, stillbirths were registered in Ireland for the first time under the Stillbirths Registration Act, 1994. The CSO collect these data using Part 1 of the birth notification form sent to the General Register Office (GRO), while the NPRS collect them using Part 3 of the birth notification form. The CSO defines a stillbirth as weighing at or over 500grams and/or at a gestational age of 24 weeks or more. From 1995 onwards, this definition applies to a late foetal death. In accordance with the World Health Organisation's (WHO) definition of a stillbirth, the NPRS includes all late foetal deaths weighing at least 500grams, irrespective of gestational age. In 2003, the NPRS recorded a higher number of stillbirths than the CSO. Applying the CSO's definition of a stillbirth, the number of stillbirths recorded by the NPRS would be estimated at 386 stillbirths. The CSO, however, reports 345 stillbirths indicating that in 2003 a number of stillbirths were notified to NPRS but not registered to the GRO. When we apply the WHO definition of a stillbirth to the data collected by the NPRS, the number of stillbirths recorded by the NPRS is estimated at 357. In accordance with WHO guidelines, only these 357 stillbirths are included in the NPRS dataset for this report. Differences in the definitions of stillbirth used by the CSO and the WHO is, therefore, an important factor in understanding differences in the stillbirth numbers and rates and the perinatal mortality rate reported by the CSO and the NPRS.

The gap between the twinning rate calculated by the CSO and the ESRI is very narrow. For 2003 the CSO report a twinning rate of 14.8 per 1,000 maternities and the NPRS report a twinning rate of 14.3 per 1,000 maternities. The NPRS dataset excludes all births where weight is < 500 grams. In the case of a multiple birth where one or more births from the set weighs <500 grams, the birth/s weighing < 500 grams are removed from the national dataset. Any birth/s weighing >500 grams in the multiple birth set are retained in the national dataset as a multiple birth/s. To clarify using an example: a set of twins are born, twin 1 weighs < 500 grams, twin 2 weighs > 500 grams, twin 1 is removed from the

national dataset and twin 2 remains in the national dataset and is recorded as the second twin of a multiple birth. This may result in incomplete sets of multiple births in the national dataset and a lower number of multiple births recorded for reporting purposes (see also Table 3.14). There is a single field on the birth notification form that identifies a multiple birth. If these data were not recorded then the NPRS has no way of identifying multiple births. It would be assumed, however, that the additional personal identification data available to the CSO ensures a more comprehensive estimate of the number of multiple births.

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

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

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

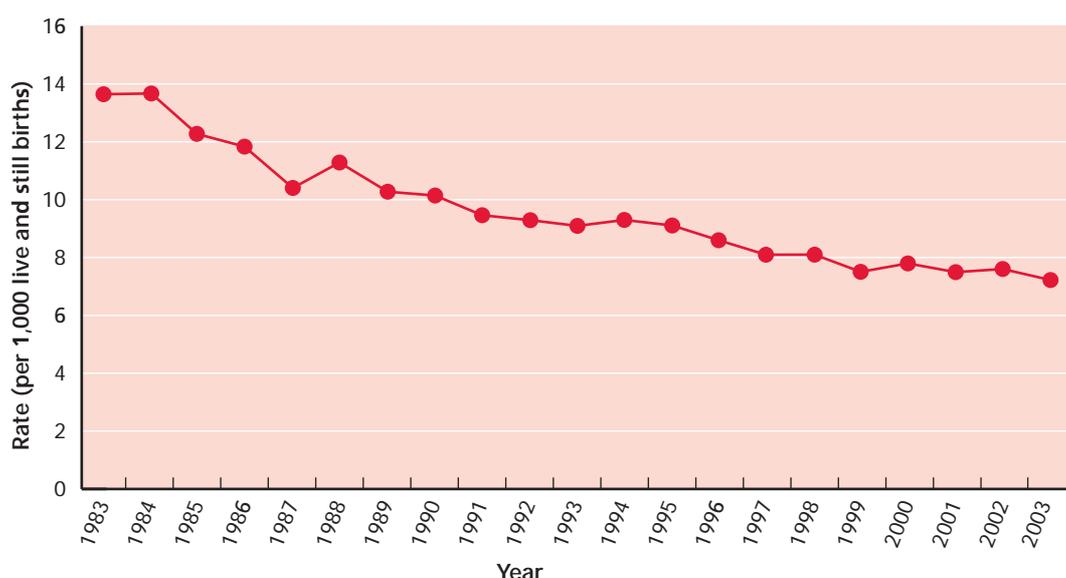
A parallel development aimed at improving the timeliness of data reporting and data quality are initiatives aimed at the electronic transfer of data directly from hospitals. Currently data in electronic format are being received by the NPRS from one major Dublin hospital and it is hoped to expand this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

General Trends and International Comparisons²

Perinatal Mortality

Recent decades have witnessed a substantial decline in infant, neonatal and perinatal mortality in Ireland. Figure 1.2 shows the perinatal mortality rate in Ireland from 1983-2003. These rates are based on the national statistics compiled by the CSO. Between 1965 and 1980 the perinatal mortality rate fell by more than half from 30 deaths per 1,000 live births and stillbirths to 14.8 per 1,000 live births and stillbirths. From 1981 until 1984 the rate remained stable at around 13.5 per 1,000 live births and stillbirths, but resumed its decline to 10.4 per 1,000 live births and stillbirths in 1987 before rising slightly to 11.3 per 1,000 live births and stillbirths in 1988. From 1989 the rate declined relatively steadily from 10.3 per 1,000 live births and stillbirths to a low of 7.5 per 1,000 live births and stillbirths in 1999, which was half the 1980 rate.³ For 2000, the perinatal mortality rate increased marginally to 7.8 per 1,000 live births and stillbirths, resuming its decline once again in 2001 and 2002 to 7.5 and 7.6 per 1,000 live births and stillbirths respectively. The perinatal mortality rate is reported at 7.1 per 1,000 live births and stillbirths for 2003.

Figure 1.2
Perinatal Mortality Rate, Ireland: 1983-2003



Source: Report on *Vital Statistics, 2003*, Central Statistics Office.

The factors impacting on the level of perinatal mortality are complex and encompass a wide range of environmental and biological variables. Birthweight, parity, mother's age, social status and type of antenatal care as well as many other variables have a bearing on perinatal risk. Data in this report indicate levels of perinatal mortality for the principal variables associated with risk. Ireland's standing in relation to other countries in the European Union (EU) is shown in Figure 1.3. Of the thirteen countries for which data are available from the Eurostat database for 2003, Ireland's perinatal

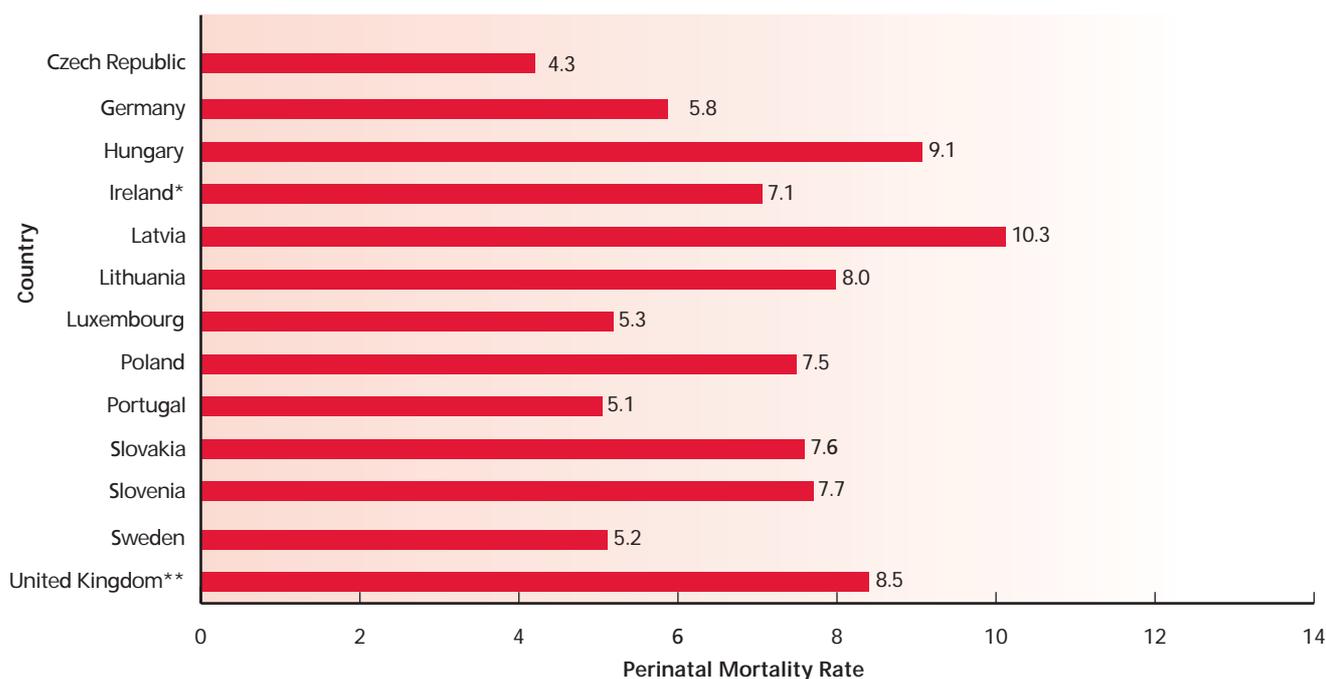
² National figures presented in this section are based on official registration data as compiled by the Central Statistics Office. These figures may differ somewhat from numbers and rates appearing in the tables of this report for reasons given in the previous section.

Where the data are available EU comparisons are based on EU membership at time of publication (i.e. twenty-five countries).

³ In 1995 a revised definition of stillbirths was employed by the CSO. This new definition included stillbirths at or over 500grams or at a gestational age of 24 weeks or more. The data presented here are based on the previous definition of a stillbirth (at or over 28 weeks gestation) to facilitate comparisons over time.

mortality rate is recorded at 7.1 per 1,000, with the United Kingdom and a number of new member states including Hungary, Latvia, Lithuania and Poland showing higher rates. Of the thirteen countries represented here, the Czech Republic records the lowest perinatal mortality rate at 4.3 per 1,000 followed by Portugal with 5.1 per 1,000. When countries are compared it should be remembered that rates are affected by national policies on abortion, by differences in the comprehensiveness and accuracy of registration and notification systems and by differences in definitions employed (for example, for stillbirth).

Figure 1.3
Perinatal Mortality Rate, 2003, for Selected EU Countries



Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted May 2006.
<http://epp.eurostat.ec.eu.int>

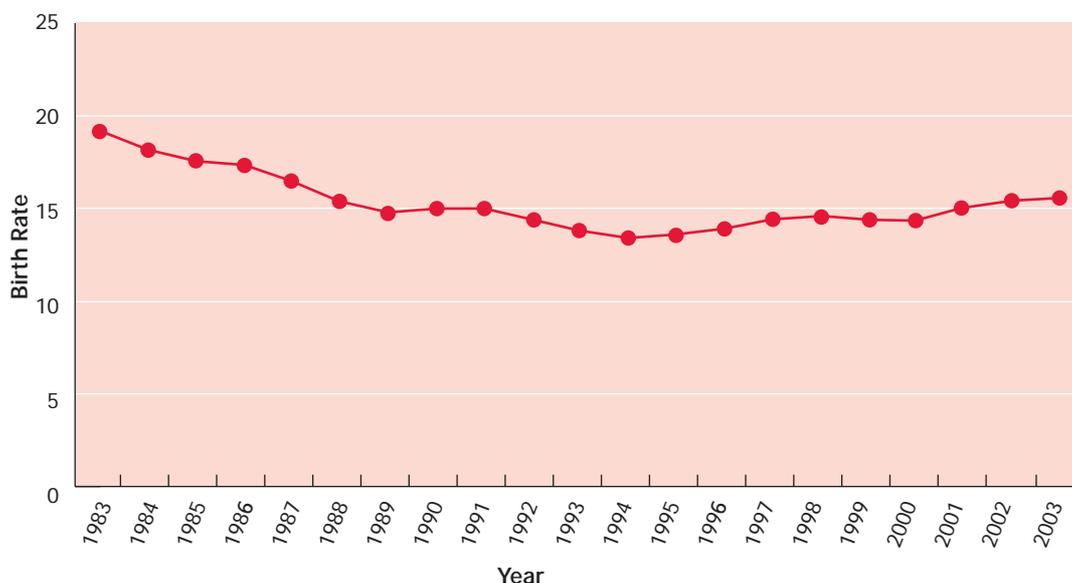
* National figure compiled by the Central Statistics Office, Report on *Vital Statistics*, 2003.

** Source: Office for National Statistics, *Health Statistics Quarterly 24*, Winter 2005.

Birth Rate

Data for births per 1,000 population over the past twenty years illustrate an overall reduction in the crude birth rate of 19 per cent since 1983. From 1983, the birth rate steadily declined from 19.2 per 1,000 population to 14.8 per 1,000 population in 1989. It then rose slightly in 1990 to 15.1 per 1,000 population and then resumed the downward trend to reach an all time low of 13.5 per 1,000 population in 1994. Since 1995 the birth rate has gradually increased to 14.6 per 1,000 population in 1998, and has remained stable up until 2000 at 14.5 per 1,000 population. For 2001 the birth rate increased to 15.0 per 1,000 population and has remained at 15.5 per 1,000 population in 2002 and 2003. This represents a return to the rates experienced in the early 1990s (Figure 1.4).

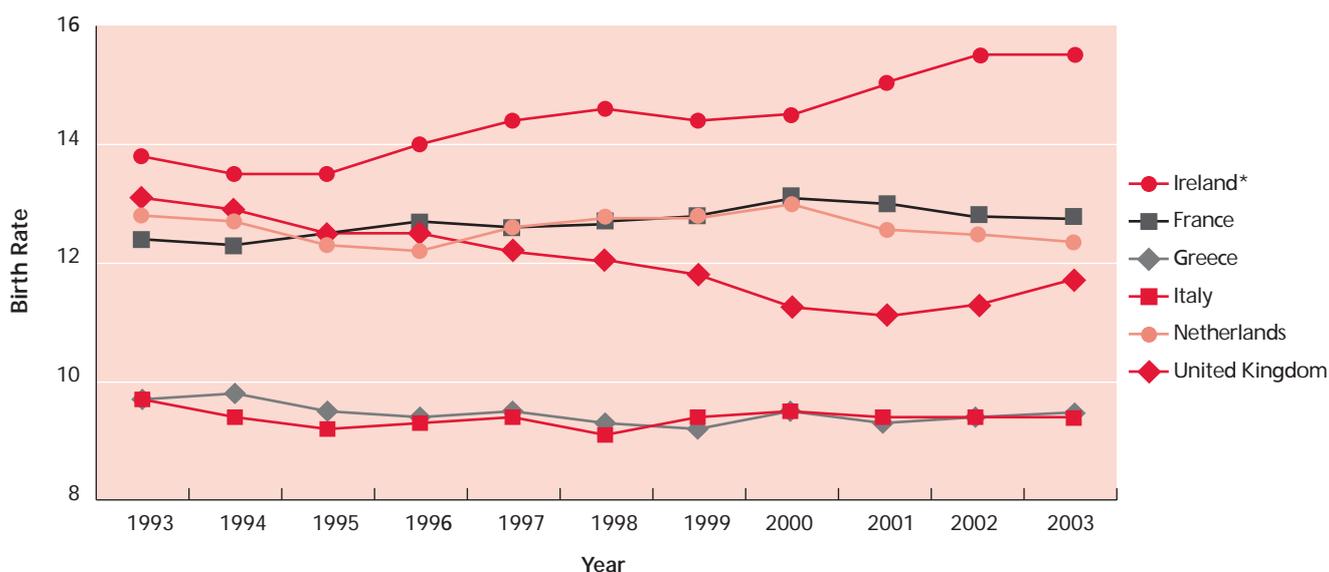
Figure 1.4
Birth Rate per 1,000 Population, Ireland: 1983-2003



Source: Reports on *Vital Statistics, 1983-2003*, Central Statistics Office.

Figure 1.5 shows trends in birth rates for selected EU countries in the last decade. For the countries reviewed, Ireland has consistently had the highest birth rate over the period. While Ireland's birth rate moved closer to that of other European countries around 1994 and 1995, since 2000 the gap has continued to widen between Ireland and France, the European country closest to Ireland in terms of birth rates. In 2003 Ireland continues to have the highest birth rate of any of the twenty-five EU countries at 15.5 per 1,000 population.

Figure 1.5
Trends in Birth Rates for Selected EU Countries: 1993-2003



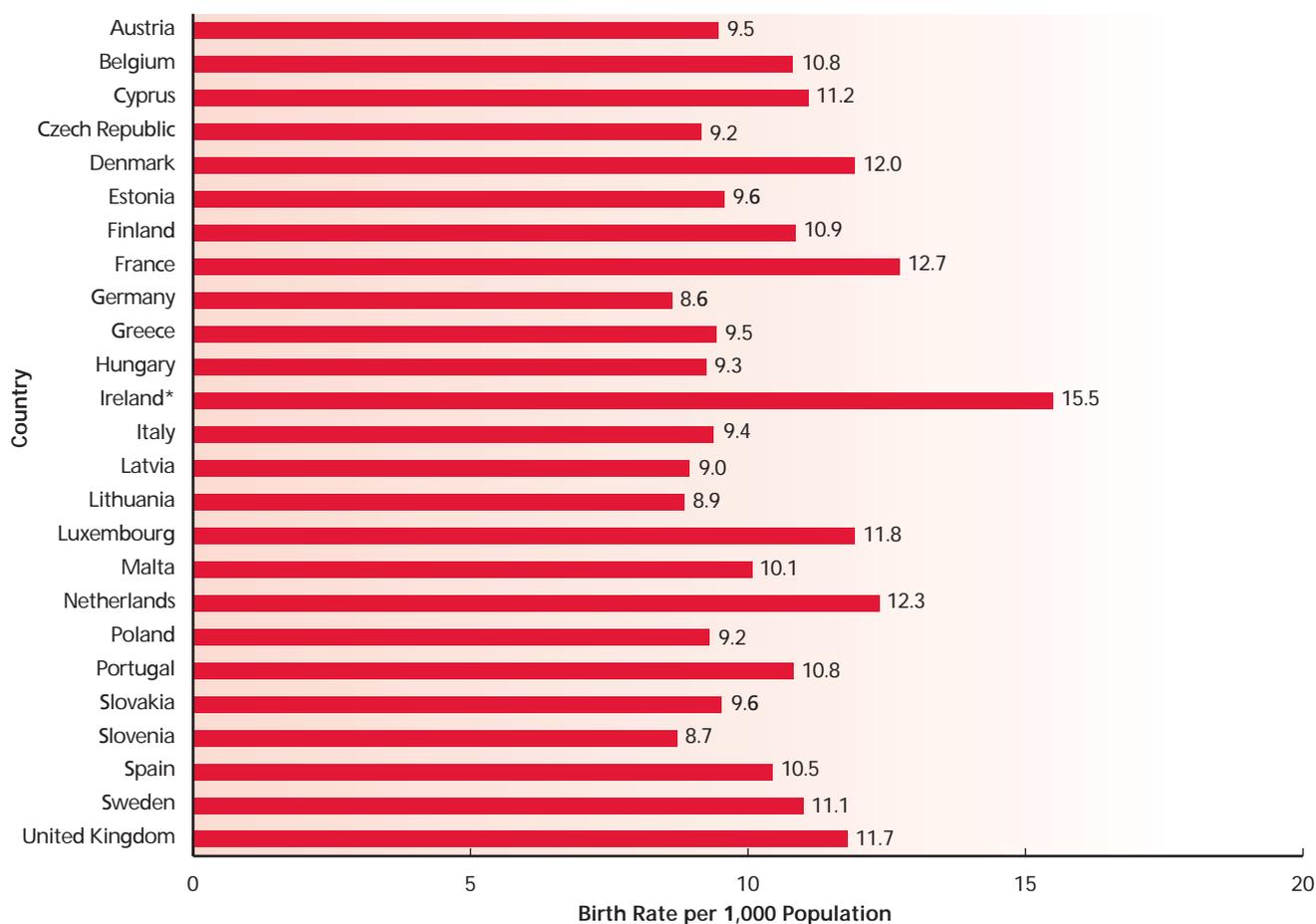
Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted May 2006.

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

*National figures. Report on *Vital Statistics, 2003* Central Statistics Office.

Figure 1.6 displays the birth rate per 1,000 population for EU countries in 2003. Apart from Ireland (15.5), the country with the next highest birth rate is France (12.7) followed by the Netherlands (12.3) and Denmark (12.0). In 2003 Germany (8.6) and Slovenia (8.7) had the lowest birth rate followed by Lithuania (8.9) and Latvia (9.0).

Figure 1.6
Birth Rate per 1,000 Population for EU Countries: 2003



Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted May 2006.
<http://epp.eurostat.ec.eu.int>

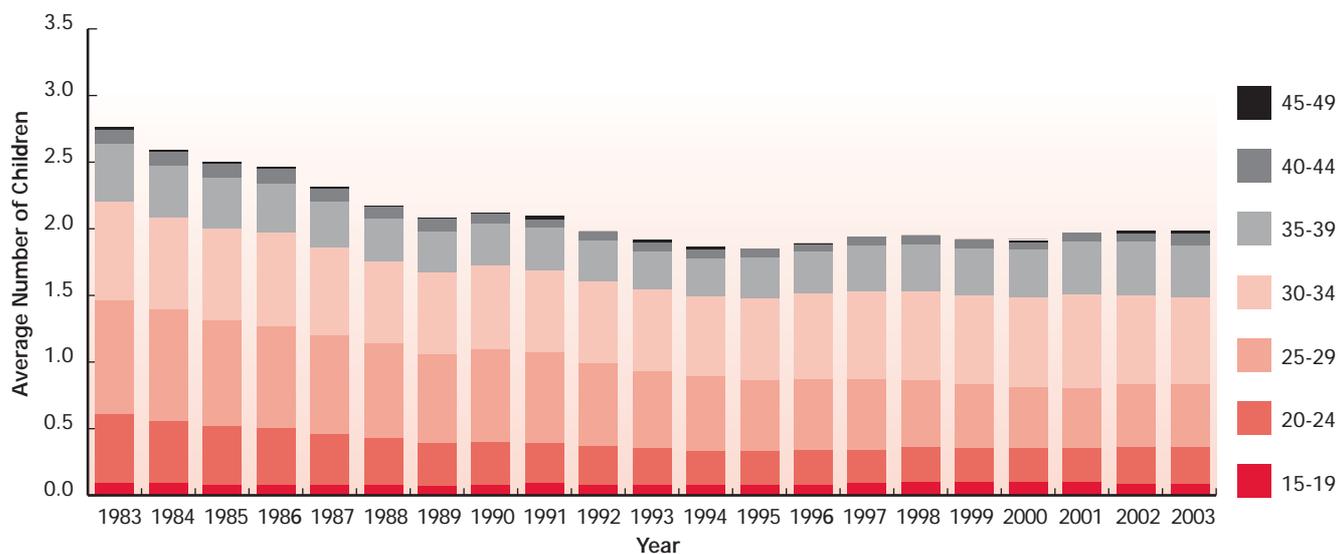
*National figures. Report on *Vital Statistics, 2003*, Central Statistics Office.

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

Fertility

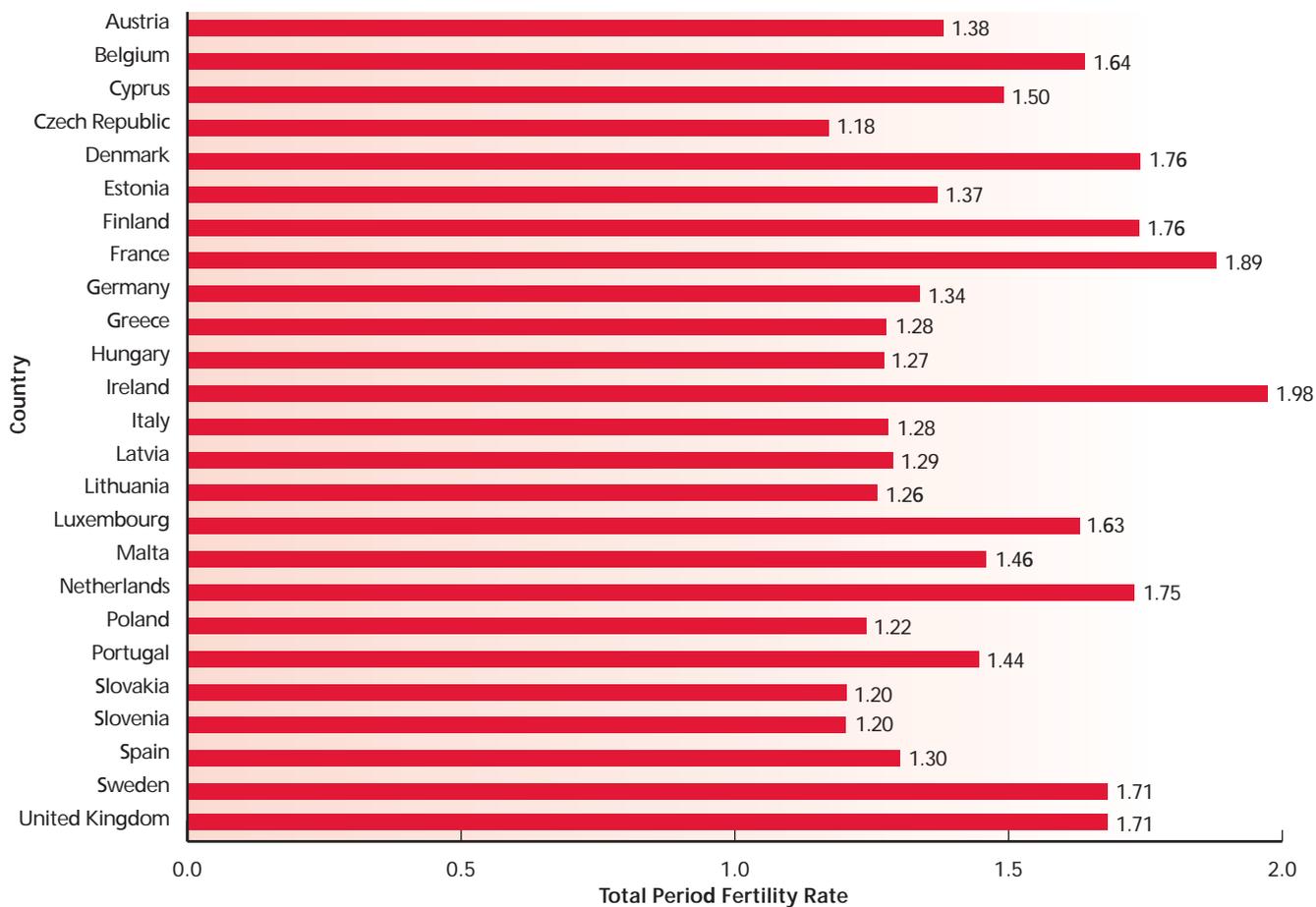
Figure 1.7 shows the trend in the Total Period Fertility Rate (TPFR) in Ireland over the past twenty years. The TPFR for a given year indicates the number of children a woman could expect to have if the age specific fertility rates for that year applied throughout her fertile years. The Irish TPFR has declined from an average of 2.76 in 1983 to 1.98 in 2003, representing a 28 per cent rate of decrease over 20 years. By 1994 and 1995 the Irish TPFR reached a low of 1.85 but increased again during the latter half of the 1990s. The rise in the crude birth rate over this period was largely accounted for by the increasing numbers of women in the childbearing age groups. As in all twenty-five EU countries currently, the TPFR for Ireland remains below the level required for the long-term replacement of the population (TPFR of 2.1) in the absence of any net inward migration. While Ireland has experienced a fairly rapid fall in TPFR over the past twenty years, the TPFR has been increasing consistently since 2001 and is returning to those rates experienced in Ireland in the early 1990s. Figure 1.8 shows that for 2003 Ireland continues to have the highest TPFR in the EU (1.98) followed by France (1.89 TPFR). For 2003 the Czech Republic, Slovakia and Slovenia have the lowest total period fertility rates (1.18 and 1.20 respectively) within the twenty-five EU countries.

Figure 1.7
Total Period Fertility Rates Subdivided by Age Groups, Ireland: 1983-2003



Source: Report on *Vital Statistics, 2003*, Central Statistics Office.

Figure 1.8
Total Period Fertility Rate, 2003, for EU Countries



Source: "Population and Social Conditions", Eurostat, Data Navigation Tree, date consulted May 2006.
<http://epp.eurostat.cec.eu.int>

Note: For comparative purposes all rates (including that for Ireland) for Figure 1.8 are from Eurostat, May 2006.



Section 2
Selected Trends

Section 2 Selected Trends

Introduction

A general review of the data reported to the NPRS over the period 1991-1993 and 1999-2003 is presented in this section. Tables 2.1 and 2.2 examine trends in vital and selected statistics for these years. Figures 2.1 to 2.6 present selected data for a number of variables, including single mothers; low birthweight babies; caesarean births; mother's breastfeeding and other aspects of perinatal care. Each of these figures summarise data for 1991-1993 and 1999-2003.

Section 2 Selected Trends

Table 2.1
Vital Events 1991-1993 and 1999-2003

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

| Vital Events | | 1991 | | 1992 | | 1993 | | Year 1999 | | 2000 | | 2001 | | 2002 | | 2003 | |
|-----------------------------------|-----------|--------|------|--------|------|--------|------|--------------|------|--------|------|--------|------|--------|------|--------|------|
| | | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| Live Births: | Singleton | 51,242 | - | 49,686 | - | 48,030 | - | 52,556 | - | 53,429 | - | 56,115 | - | 58,752 | - | 59,837 | - |
| | Multiple | 1,200 | - | 1,182 | - | 1,001 | - | 1,463 | - | 1,429 | - | 1,807 | - | 1,770 | - | 1,795 | - |
| | Total | 52,442 | - | 50,868 | - | 49,031 | - | 54,019 | - | 54,858 | - | 57,922 | - | 60,522 | - | 61,632 | - |
| Stillbirths: | Singleton | 284 | 5.5 | 285 | 5.7 | 272 | 5.6 | 274 | 5.2 | 288 | 5.4 | 307 | 5.4 | 319 | 5.4 | 327 | 5.4 |
| | Multiple | 18 | 14.8 | 16 | 31.4 | 11 | 10.9 | 14 | 9.5 | 20 | 13.8 | 32 | 17.4 | 24 | 13.4 | 30 | 16.4 |
| | Total | 302 | 5.7 | 301 | 5.9 | 283 | 5.7 | 288 | 5.3 | 308 | 5.6 | 339 | 5.8 | 343 | 5.6 | 357 | 5.8 |
| Early Neonatal: Deaths | Singleton | 195 | 3.8 | 173 | 3.5 | 131 | 2.7 | 130 | 2.5 | 153 | 2.9 | 136 | 2.4 | 149 | 2.5 | 156 | 2.6 |
| | Multiple | 24 | 20.0 | 19 | 16.1 | 16 | 16.0 | 27 | 18.5 | 23 | 16.1 | 24 | 13.3 | 21 | 11.9 | 21 | 11.7 |
| | Total | 219 | 4.2 | 192 | 3.8 | 147 | 3.0 | 157 | 2.9 | 176 | 3.2 | 160 | 2.8 | 170 | 2.8 | 177 | 2.9 |
| Perinatal : Deaths | Singleton | 479 | 9.3 | 458 | 9.2 | 403 | 8.3 | 404 | 7.6 | 441 | 8.2 | 443 | 7.9 | 468 | 7.9 | 483 | 8.0 |
| | Multiple | 42 | 34.5 | 35 | 29.2 | 27 | 26.7 | 41 | 27.8 | 43 | 29.7 | 56 | 30.5 | 45 | 25.1 | 51 | 27.9 |
| | Total | 521 | 9.9 | 493 | 9.6 | 430 | 8.7 | 445 | 8.2 | 484 | 8.8 | 499 | 8.6 | 513 | 8.4 | 534 | 8.6 |
| Adjusted : Perinatal Deaths | Singleton | 320 | 6.2 | 318 | 6.4 | 294 | 6.1 | 301 | 5.7 | 317 | 5.9 | 311 | 5.5 | 353 | 6.0 | 336 | 5.6 |
| | Multiple | 39 | 32.1 | 32 | 26.8 | 18 | 17.9 | 37 | 25.1 | 31 | 21.6 | 45 | 24.6 | 43 | 24.0 | 48 | 26.3 |
| | Total | 359 | 6.8 | 350 | 6.9 | 312 | 6.3 | 338 | 6.2 | 348 | 6.3 | 356 | 6.1 | 396 | 6.5 | 384 | 6.2 |

Table 2.2
Trends in Selected Statistics, 1991-1993 and 1999-2003

| Selected Statistics | 1991 | 1992 | 1993 | 1999 | 2000 | 2001 | 2002 | 2003 |
|---|--------------------|--------------------|--------------------|----------|----------|----------|----------|----------|
| General Characteristics | | | | | | | | |
| Average Age of Mother in years | 29.11 | 29.18 | 29.30 | 30.06 | 30.18 | 30.27 | 30.41 | 30.58 |
| Average Maternal Parity | 1.43 | 1.37 | 1.33 | 1.10 | 1.09 | 1.07 | 1.06 | 1.05 |
| Single Mothers (%) | 15.54 | 16.50 | 18.14 | 29.71 | 30.09 | 30.14 | 30.01 | 30.20 |
| Average Age of Single Mothers in years | 22.36 ^E | 22.41 ^E | 22.83 ^E | 24.74 | 24.98 | 25.36 | 25.72 | 26.10 |
| Average Number of Previous Stillbirths per 1,000 maternities | 17.22 | 19.82 | 23.18 | 14.03 | 13.06 | 13.57 | 12.58 | 12.61 |
| Average weight in grams - Singleton Births | 3,548.02 | 3,525.01 | 3,520.02 | 3,505.35 | 3,517.36 | 3,509.36 | 3,503.73 | 3,500.64 |
| - Multiple Births | 2,653.17 | 2,549.84 | 2,535.38 | 2,467.24 | 2,509.85 | 2,470.41 | 2,489.72 | 2,487.13 |
| - Total Births | 3,527.54 | 3,502.37 | 3,499.98 | 3,477.19 | 3,491.13 | 3,476.96 | 3,474.07 | 3,471.11 |
| Low birthweight <2500 grams (%) | | | | | | | | |
| - Singleton Births | 3.43 | 3.24 | 3.39 | 3.80 | 3.84 | 3.84 | 3.76 | 3.87 |
| - Multiple Births | 38.38 | 41.38 | 42.23 | 47.71 | 43.35 | 46.46 | 44.18 | 45.07 |
| - Total Births | 4.23 | 4.13 | 4.18 | 4.99 | 4.87 | 5.17 | 4.94 | 5.07 |
| Average Gestational Age at delivery in weeks | 39.59 | 40.23 | 40.08 | 39.48 | 39.46 | 39.47 | 39.45 | 39.44 |
| Average interval since last birth in years | 3.68 | 3.69 | 3.75 | 3.82 | 3.84 | 3.81 | 3.85 | 3.78 |
| Perinatal Care | | | | | | | | |
| Hospital & GP combined antenatal care (%) | 58.97 | 61.97 | 63.94 | 72.30 | 72.39 | 73.25 | 74.06 | 75.85 |
| Mother's average length of stay in days | 5.24 | 5.12 | 5.15 | 4.71 | 4.54 | 4.38 | 4.09 | 3.95 |
| Immunity to Rubella (%) | 89.40 | 89.02 | 89.36 | 89.63 | 87.76 | 86.84 | 86.49 | 87.30 |
| Method of Delivery (%) ^{1,2} <i>Singleton Births</i> | | | | | | | | |
| - Spontaneous | 73.64 | 73.72 | 72.95 | 65.35 | 64.56 | 64.29 | 63.27 | 62.24 |
| - Caesarean | 11.30 | 11.78 | 12.57 | 19.69 | 20.55 | 21.05 | 21.61 | 23.14 |
| - Forceps ³ | 9.58 | 8.30 | 7.79 | 4.27 | 3.78 | 3.21 | 3.19 | 2.89 |
| <i>Multiple Births</i> | | | | | | | | |
| - Spontaneous | 39.36 | 40.78 | 37.99 | 32.33 | 33.73 | 29.83 | 33.62 | 26.30 |
| - Caesarean | 30.70 | 29.69 | 34.95 | 47.23 | 50.31 | 52.74 | 49.49 | 58.33 |
| - Forceps ³ | 8.07 | 6.40 | 6.48 | 3.08 | 2.52 | 2.71 | 2.99 | 1.56 |
| <i>Total Births</i> | | | | | | | | |
| - Spontaneous | 72.85 | 72.96 | 72.24 | 64.46 | 63.76 | 63.22 | 62.41 | 61.20 |
| - Caesarean | 11.75 | 12.19 | 13.03 | 20.43 | 21.33 | 22.04 | 22.43 | 24.17 |
| - Forceps ³ | 9.54 | 8.25 | 7.77 | 4.24 | 3.74 | 3.20 | 3.18 | 2.85 |
| Booked Hospital Admissions (%) | 98.94 | 98.99 | 98.46 | 96.49 | 96.48 | 98.17 | 97.58 | 97.47 |
| Mother's breastfeeding (%) | 31.85 | 33.85 | 33.89 | 36.16 | 38.41 | 39.13 | 41.14 | 41.32 |
| Perinatal Outcomes | | | | | | | | |
| Wigglesworth Classes (Rate) ⁴ | | | | | | | | |
| - Macerated Stillbirths | 2.96 | 3.48 | 3.10 | 3.46 | 4.04 | 3.67 | 4.23 | 3.84 |
| - Congenital Anomalies | 2.88 | 2.74 | 2.37 | 1.94 | 2.46 | 2.50 | 1.87 | 2.37 |
| - Immaturity | 1.44 | 1.48 | 1.20 | 1.39 | 1.07 | 1.27 | 1.23 | 1.18 |
| - Asphyxia | 2.39 | 1.74 | 1.91 | 1.93 | 1.38 | 1.49 | 1.43 | 1.52 |
| - Specific Conditions | 0.38 | 0.47 | 0.43 | 0.49 | 0.51 | 0.63 | 0.64 | 0.53 |
| - Total | 10.05 | 9.91 | 9.00 | 9.11 | 9.45 | 9.57 | 9.40 | 9.43 |
| Infant's average length of stay in days | | | | | | | | |
| - Singleton Births | 4.41 | 4.44 | 4.52 | 4.17 | 4.08 | 3.89 | 3.68 | 3.62 |
| - Multiple Births | 7.83 | 9.56 | 11.27 | 10.68 | 10.73 | 11.45 | 10.16 | 10.09 |
| - Total Births | 4.47 | 4.54 | 4.59 | 4.34 | 4.25 | 4.12 | 3.87 | 3.80 |
| Post-mortems for Early Neonatal Deaths (%) | 66.12 | 73.78 | 66.67 | 44.37 | 39.41 | 33.55 | 42.07 | 41.72 |

¹ See Tables 4.4 and 4.13 for data on all Methods of Delivery.

² These figures were not based on total maternities but on total births, to give a more accurate picture as each infant in a multiple pregnancy can have a different method of delivery.

³ Excludes breech deliveries.

⁴ See Appendix G for details of method.

E= Estimate. Weighted averages from data in Appendix E, Table 3, Reports on *Perinatal Statistics, 1991-1993*, Department of Health.

Note: These selected statistics are set out according to the order in which they appear in subsequent sections of this report. Further details for each statistic, including mortality rates, are given in these sections. Statistics relating to maternal characteristics are based on total maternities. Missing values are not included in the calculation of percentages.

Figure 2.1
Percentage of Births to Single Mothers, 1991-1993 and 1999-2003

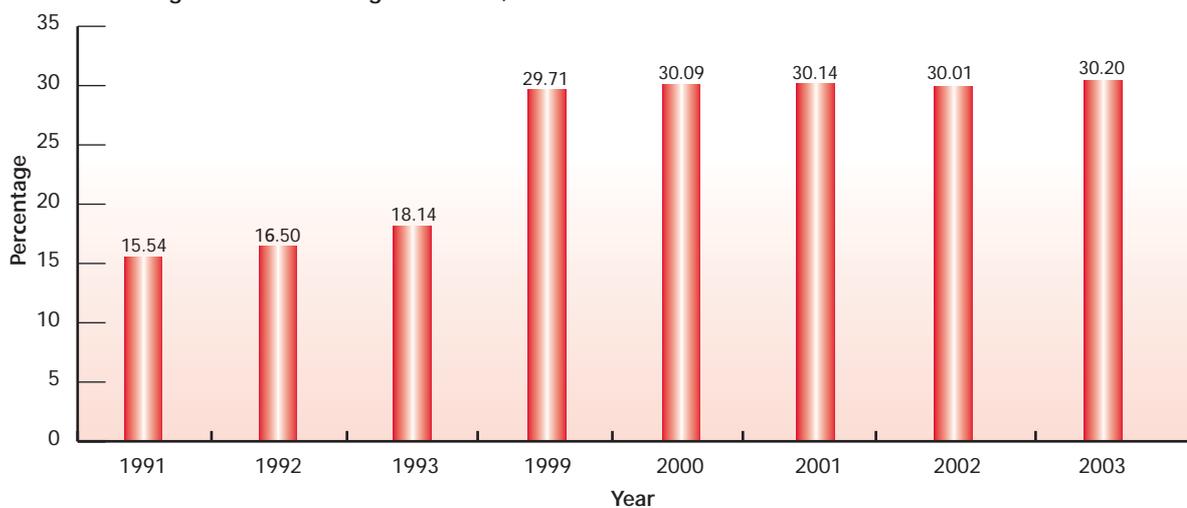
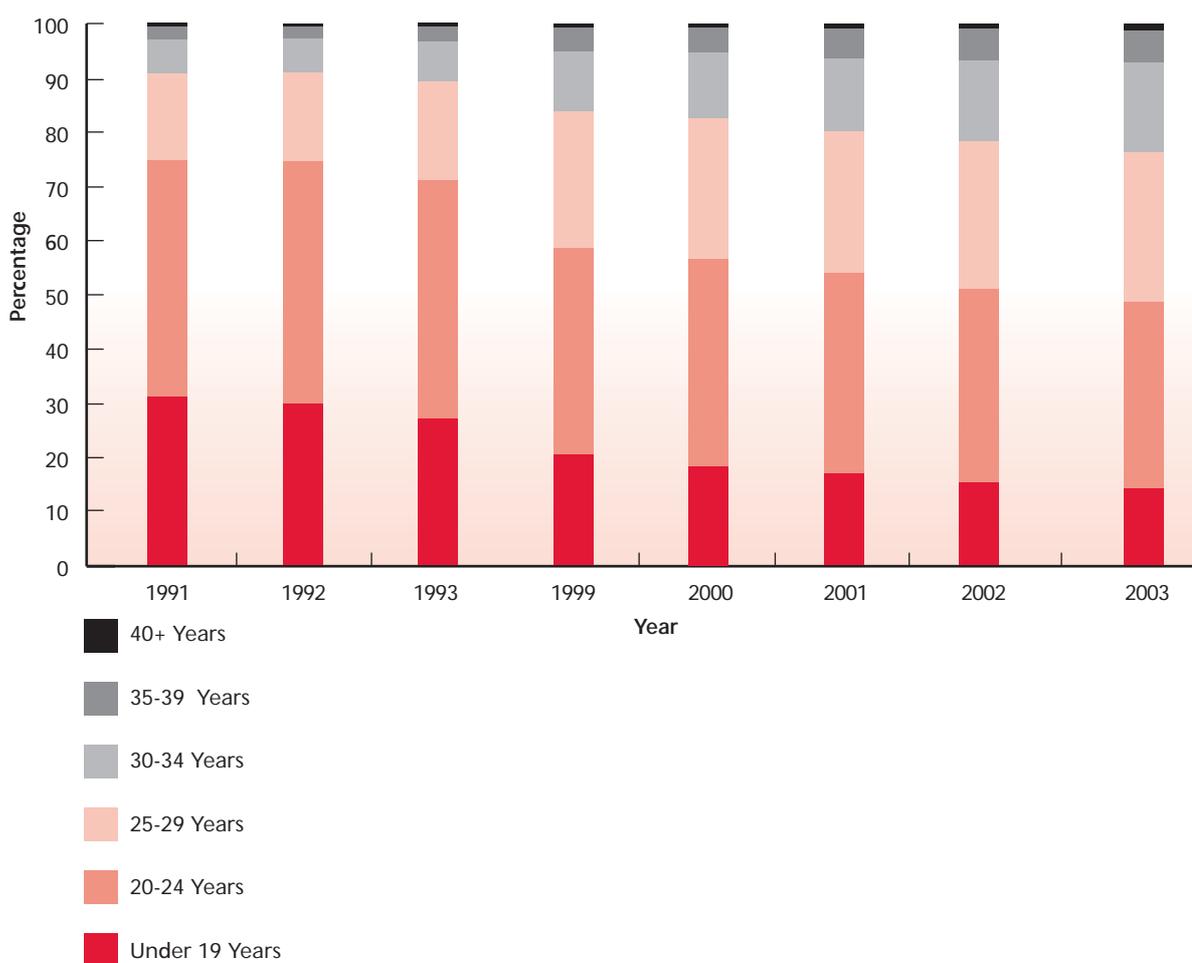


Figure 2.2
Percentage of Births to Single Mothers by Age of Mother, Singleton Births, 1991-1993 and 1999-2003



Source: Reports on *Perinatal Statistics, 1991-1993*, Department of Health. Appendix E, Table 3.
 Reports on *Perinatal Statistics for 1999-2002*, The Economic & Social Research Institute. Appendix E, Tables E3.
 Note: See Appendix F, Table F3 for data on 2003.

Figure 2.3
Percentage of Low Birthweight Babies, 1991-1993 and 1999-2003

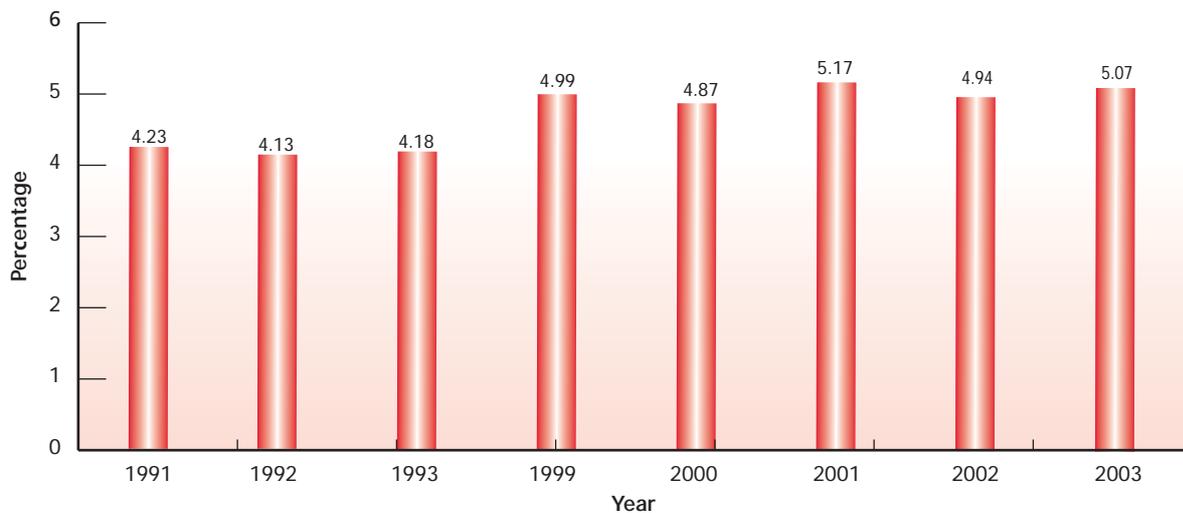


Figure 2.4
Average Length of Stay in Days for Mothers and Infants, 1991-1993 and 1999-2003

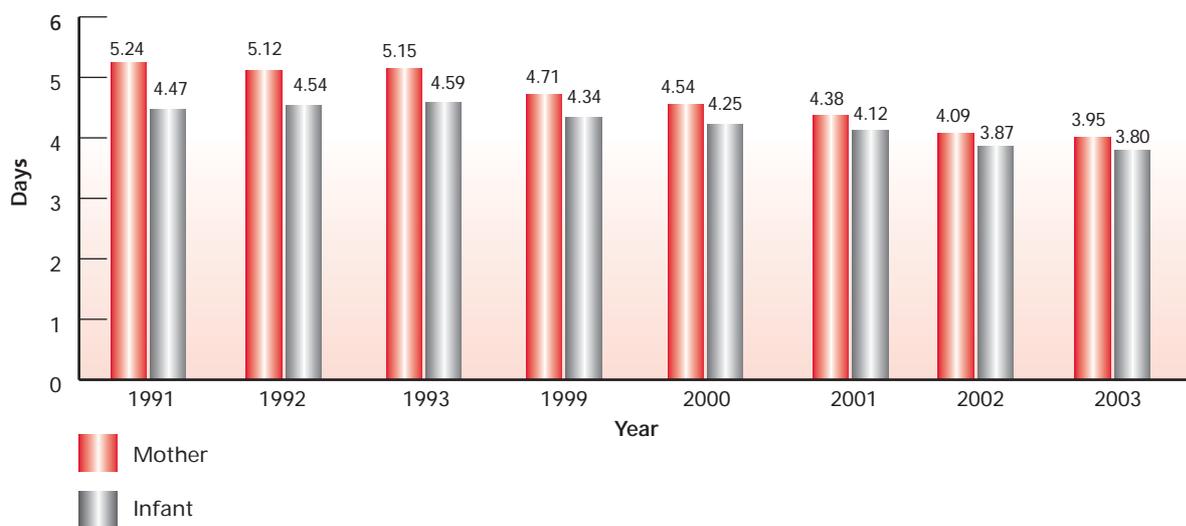


Figure 2.5
Caesarean Births as a Percentage of Total Births, 1991-1993 and 1999-2003

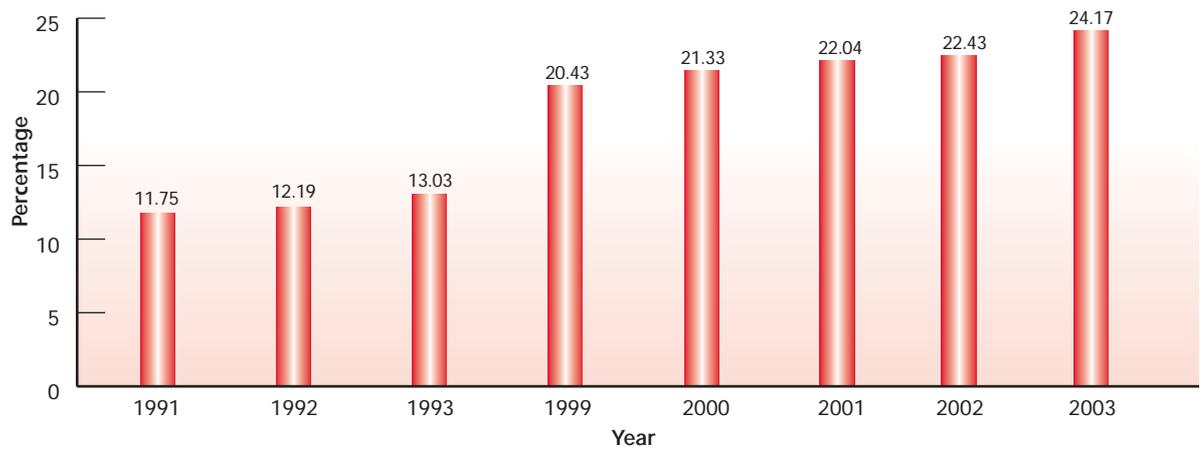
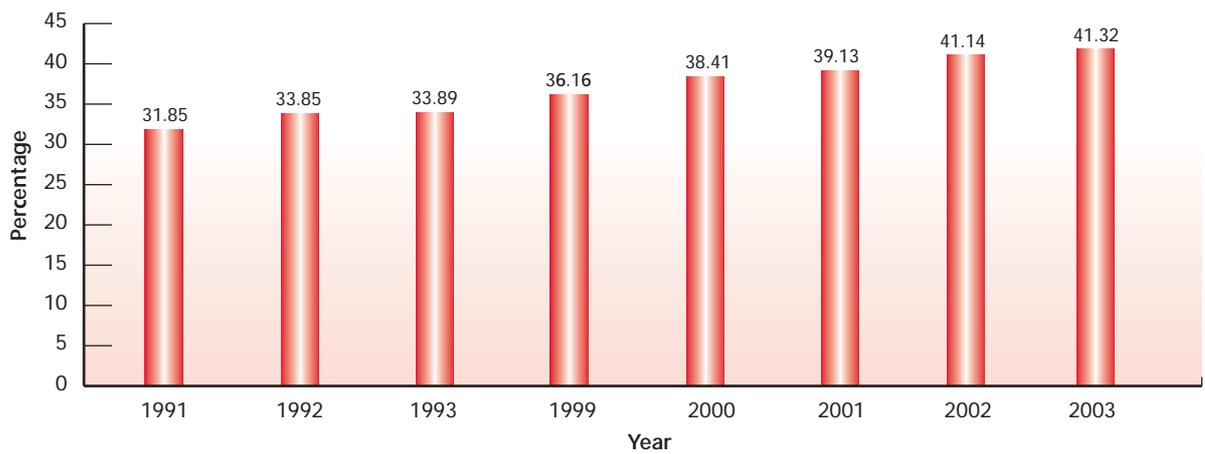
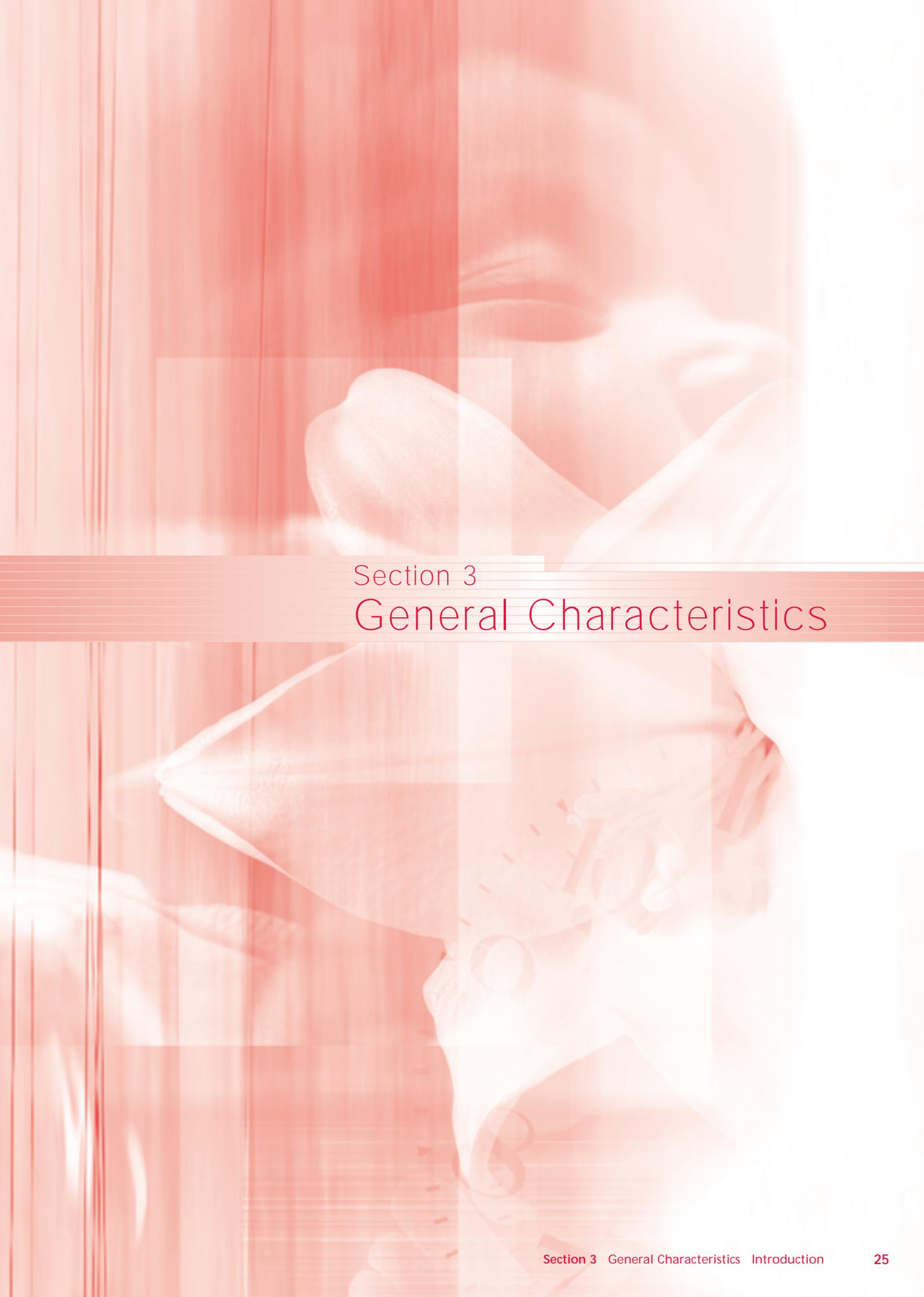


Figure 2.6
Percentage of Mother's Breastfeeding, 1991-1993 and 1999-2003





Section 3

General Characteristics

Section 3 General Characteristics

Introduction

This section presents a more detailed analysis of data reported to the NPRS for 2003. Part 1 reports on singleton births and Part 2 on multiple births. The following tables outline data for live births, stillbirths and early neonatal deaths, together with their corresponding rates. The perinatal mortality rate and adjusted perinatal mortality rate are also outlined in each table. Tables and figures are presented in some detail for a number of variables, including mother's age; marital status; father and mother's occupation; birthweight and mother's health board of residence.

Section 3 General Characteristics

Part 1 Singleton Births

Section 3 General Characteristics

Part 1 Singleton Births

Table 3.1
Age of Mother

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2003

Singleton Births

| Age of Mother | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR* |
|-----------------|---------------|-----------------------------|-------------|--------------------|--------------------------|------------------------|-----------------------------|------------------|
| Under 15 Years | 14 | 0.0 | 1 | 66.7 | 0 | 0.0 | 66.7 | 66.7 |
| 15-19 Years | 2,799 | 4.7 | 23 | 8.2 | 12 | 4.3 | 12.4 | 9.2 |
| 20-24 Years | 8,311 | 13.9 | 50 | 6.0 | 24 | 2.9 | 8.9 | 7.2 |
| 25-29 Years | 14,369 | 24.0 | 58 | 4.0 | 32 | 2.2 | 6.2 | 4.2 |
| 30-34 Years | 20,449 | 34.2 | 106 | 5.2 | 53 | 2.6 | 7.7 | 5.6 |
| 35-39 Years | 11,609 | 19.4 | 58 | 5.0 | 25 | 2.2 | 7.1 | 4.2 |
| 40-44 Years | 2,171 | 3.6 | 20 | 9.1 | 10 | 4.6 | 13.7 | 8.3 |
| 45 Years & over | 65 | 0.1 | 1 | 15.2 | 0 | 0.0 | 15.2 | 0.0 |
| Not Stated | 50 | 0.1 | 10 | 166.7 | 0 | 0.0 | 166.7 | 137.9 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

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

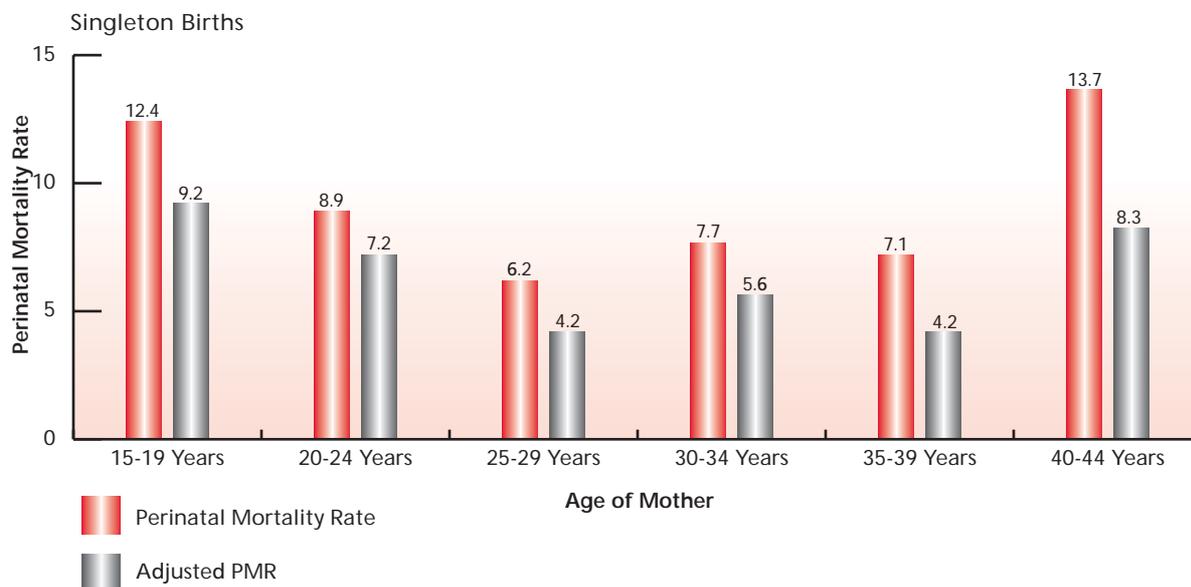
Table 3.2
Maternal Parity

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2003

Singleton Births

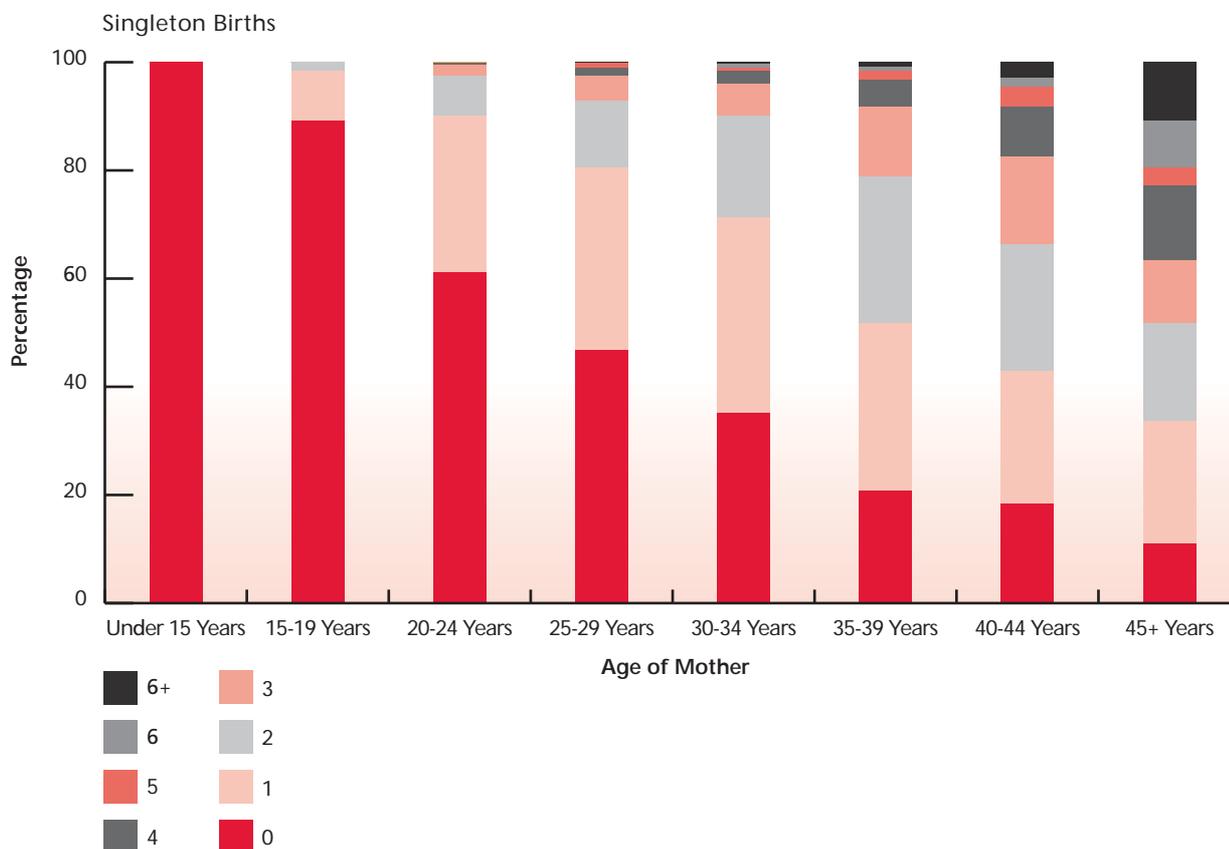
| Maternal Parity | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------|---------------|-----------------------------|-------------|--------------------|--------------------------|------------------------|-----------------------------|-----------------|
| 0 | 24,301 | 40.6 | 155 | 6.3 | 73 | 3.0 | 9.3 | 6.8 |
| 1 | 19,055 | 31.8 | 75 | 3.9 | 32 | 1.7 | 5.6 | 3.7 |
| 2 | 10,128 | 16.9 | 41 | 4.0 | 30 | 3.0 | 7.0 | 4.4 |
| 3 | 3,925 | 6.6 | 32 | 8.1 | 9 | 2.3 | 10.4 | 7.1 |
| 4 | 1,462 | 2.4 | 13 | 8.8 | 7 | 4.8 | 13.6 | 9.5 |
| 5 | 545 | 0.9 | 1 | 1.8 | 3 | 5.5 | 7.3 | 5.5 |
| 6 | 237 | 0.4 | 2 | 8.4 | 1 | 4.2 | 12.6 | 4.2 |
| More than 6 | 179 | 0.3 | 8 | 42.8 | 1 | 5.6 | 48.1 | 48.1 |
| Not Stated | 5 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Figure 3.1
Perinatal Mortality Rates by Age of Mother, 2003



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

Figure 3.2
Percentage Distribution of Parity by Age of Mother, 2003



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

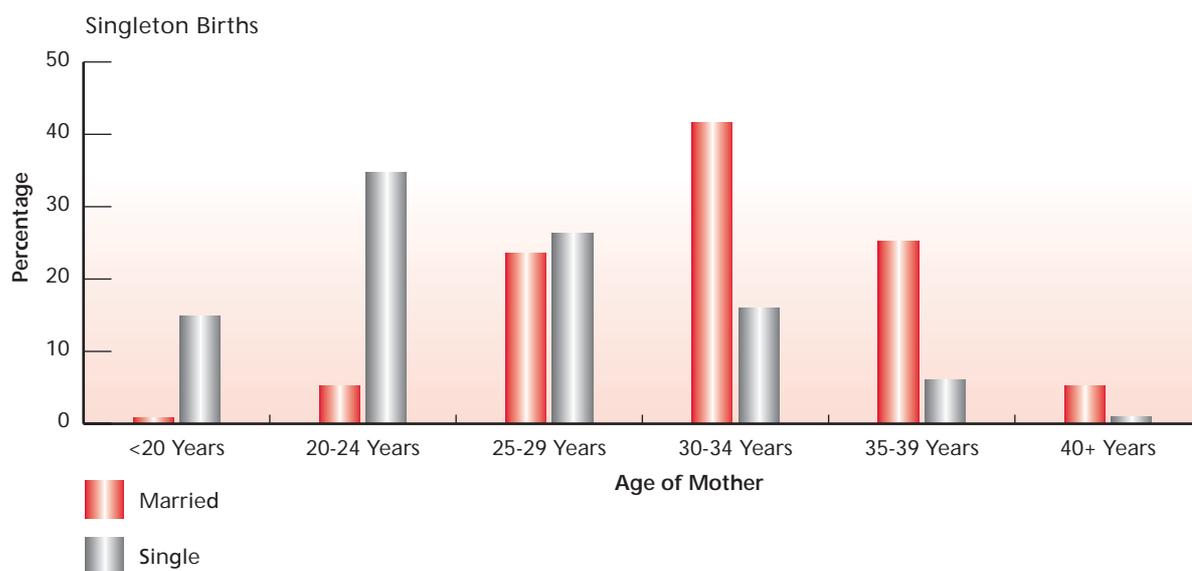
Table 3.3
Marital Status

Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2003

Singleton Births

| Marital Status | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|----------------|---------------|-----------------------------|-------------|--------------------|--------------------------|------------------------|-----------------------------|-----------------|
| Married | 40,785 | 68.2 | 204 | 5.0 | 98 | 2.4 | 7.4 | 4.8 |
| Single | 18,126 | 30.3 | 113 | 6.2 | 55 | 3.0 | 9.2 | 7.2 |
| Widowed | 61 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Separated | 664 | 1.1 | 7 | 10.4 | 2 | 3.0 | 13.4 | 9.0 |
| Divorced | 196 | 0.3 | 2 | 10.1 | 1 | 5.1 | 15.2 | 10.2 |
| Not Stated | 5 | 0.0 | 1 | 166.7 | 0 | 0.0 | 166.7 | 166.7 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Figure 3.3
Mother's Age: Percentage Distribution of Singleton Births for Married and Single Status, 2003



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

Table 3.4
Father's Occupation

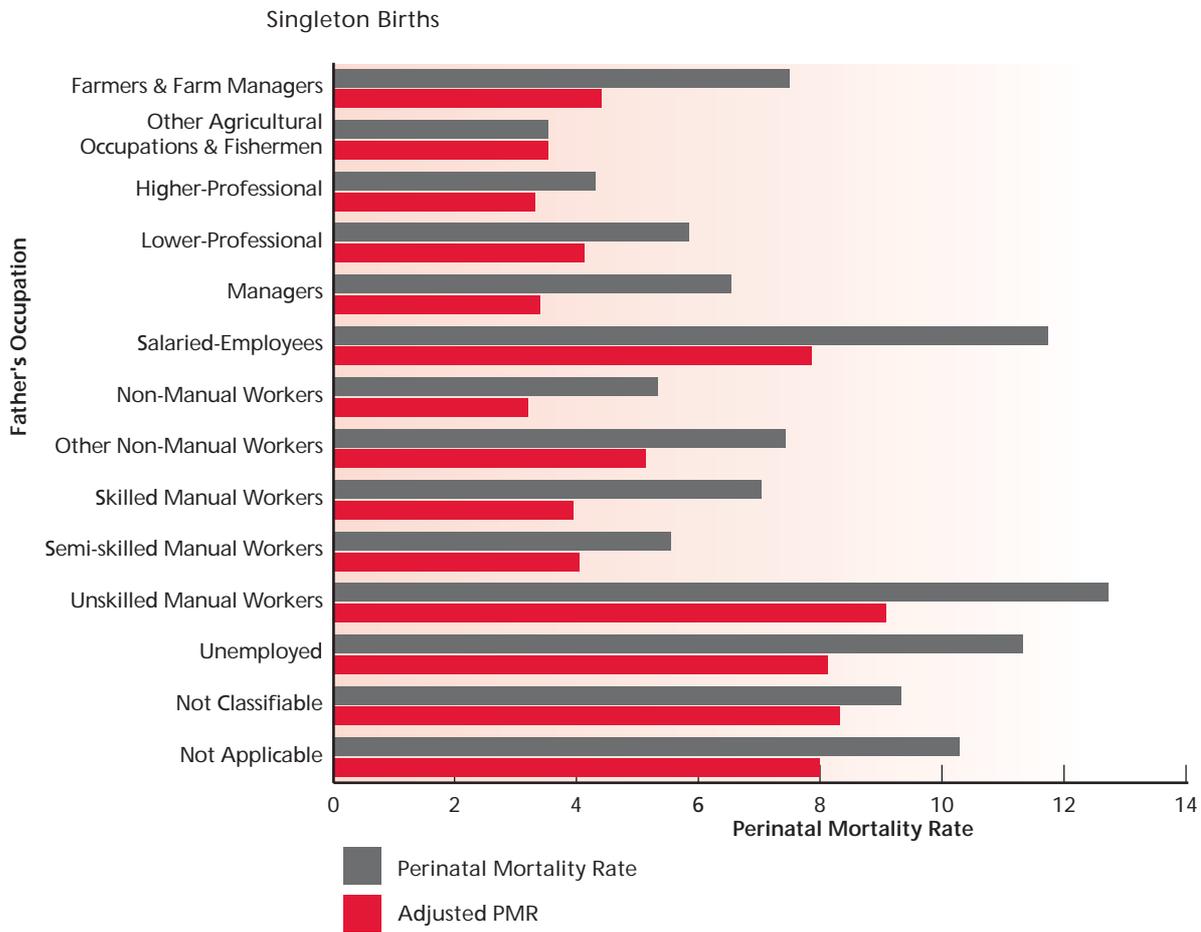
Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2003

Singleton Births

| Father's Occupation | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Farmers & Farm Managers | 2,547 | 4.3 | 13 | 5.1 | 6 | 2.4 | 7.4 | 4.3 |
| Other Agricultural Occupations & Fishermen | 579 | 1.0 | 1 | 1.7 | 1 | 1.7 | 3.4 | 3.4 |
| Higher-Professional | 3,780 | 6.3 | 12 | 3.2 | 4 | 1.1 | 4.2 | 3.2 |
| Lower-Professional Managers | 2,995 | 5.0 | 12 | 4.0 | 5 | 1.7 | 5.7 | 4.0 |
| Salaried-Employees | 4,850 | 8.1 | 23 | 4.7 | 8 | 1.6 | 6.4 | 3.3 |
| Non-Manual Workers | 1,542 | 2.6 | 15 | 9.6 | 3 | 1.9 | 11.6 | 7.7 |
| Other Non-Manual Workers | 4,222 | 7.1 | 15 | 3.5 | 7 | 1.7 | 5.2 | 3.1 |
| Skilled Manual Workers | 4,756 | 7.9 | 21 | 4.4 | 14 | 2.9 | 7.3 | 5.0 |
| Semi-skilled Manual Workers | 10,949 | 18.3 | 43 | 3.9 | 33 | 3.0 | 6.9 | 3.8 |
| Unskilled Manual Workers | 2,589 | 4.3 | 11 | 4.2 | 3 | 1.2 | 5.4 | 3.9 |
| Unemployed | 549 | 0.9 | 6 | 10.8 | 1 | 1.8 | 12.6 | 9.0 |
| Not Classifiable | 2,129 | 3.6 | 13 | 6.1 | 11 | 5.2 | 11.2 | 8.0 |
| Not Applicable | 976 | 1.6 | 6 | 6.1 | 3 | 3.1 | 9.2 | 8.2 |
| Not Stated | 15,908 | 26.6 | 111 | 6.9 | 52 | 3.3 | 10.2 | 7.9 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Note: In this table 'Not Classifiable' includes 89 Fathers whose occupation was recorded as 'Home Duties'. See Appendix C for a description of the classification system for occupations.

Figure 3.4
Perinatal Mortality Rates by Father's Occupation, 2003



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

Table 3.5
Mother's Occupation

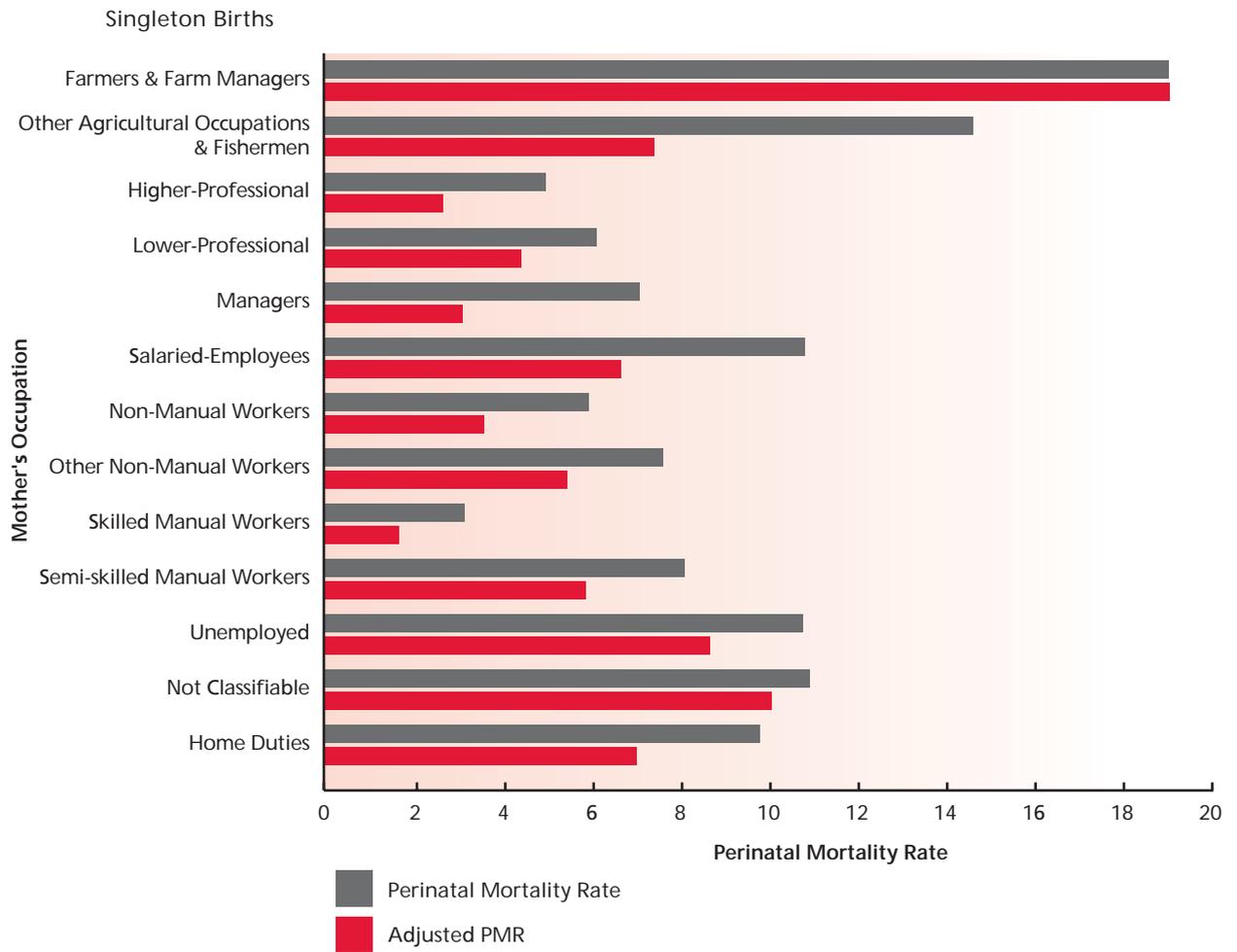
Live Births, Stillbirths, Early Neonatal Deaths and Mortality Rates, 2003

Singleton Births

| Mother's Occupation | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Farmers & Farm Managers | 104 | 0.2 | 2 | 18.9 | 0 | 0.0 | 18.9 | 18.9 |
| Other Agricultural Occupations & Fishermen | 138 | 0.2 | 0 | 0.0 | 2 | 14.5 | 14.5 | 7.3 |
| Higher-Professional | 2,677 | 4.5 | 7 | 2.6 | 6 | 2.2 | 4.8 | 2.6 |
| Lower-Professional Managers | 7,447 | 12.4 | 33 | 4.4 | 12 | 1.6 | 6.0 | 4.2 |
| Salaried-Employees | 3,611 | 6.0 | 12 | 3.3 | 13 | 3.6 | 6.9 | 3.0 |
| Non-Manual Workers | 924 | 1.5 | 7 | 7.5 | 3 | 3.2 | 10.7 | 6.5 |
| Other Non-Manual Workers | 13,297 | 22.2 | 46 | 3.4 | 31 | 2.3 | 5.8 | 3.5 |
| Skilled Manual Workers | 6,066 | 10.1 | 30 | 4.9 | 16 | 2.6 | 7.5 | 5.4 |
| Semi-skilled Manual Workers | 665 | 1.1 | 1 | 1.5 | 1 | 1.5 | 3.0 | 1.5 |
| Unskilled Manual Workers | 2,742 | 4.6 | 15 | 5.4 | 7 | 2.6 | 8.0 | 5.8 |
| Unemployed | 6 | 0.0 | 2 | 250.0 | 0 | 0.0 | 250.0 | 250.0 |
| Not Classifiable | 2,810 | 4.7 | 17 | 6.0 | 13 | 4.6 | 10.6 | 8.5 |
| Home Duties | 2,110 | 3.5 | 21 | 9.9 | 2 | 0.9 | 10.8 | 9.9 |
| Not Stated | 16,300 | 27.2 | 115 | 7.0 | 44 | 2.7 | 9.7 | 6.9 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

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

Figure 3.5
Perinatal Mortality Rates by Mother's Occupation, 2003



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

Table 3.6**Number of Previous Stillbirths**

(for women having second and subsequent births)

Live births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

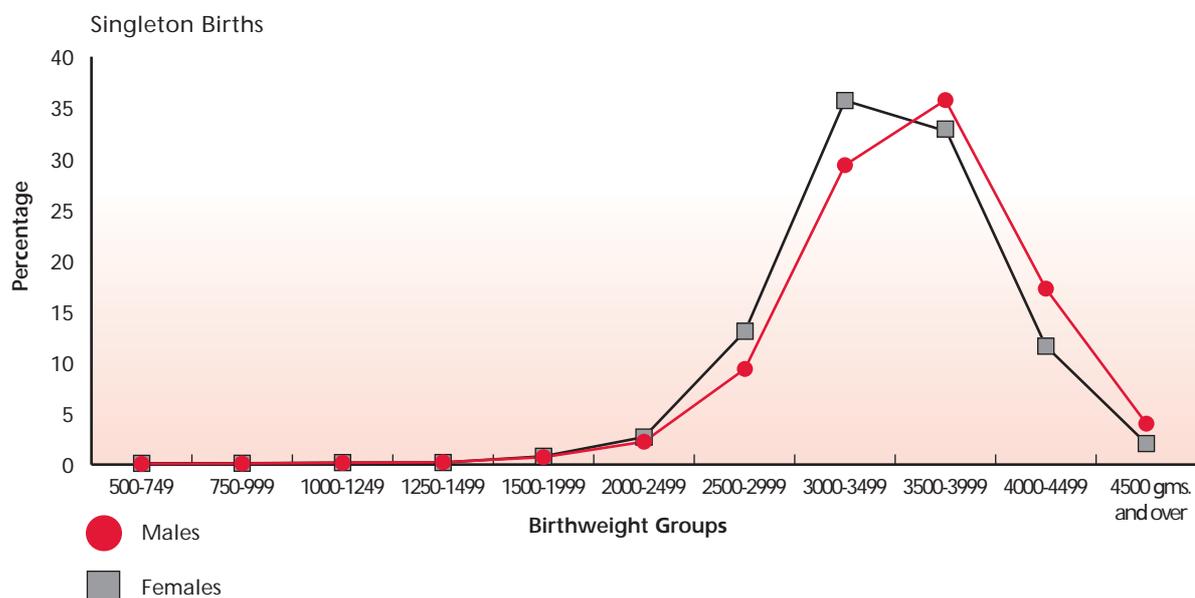
| Previous Stillbirths | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|----------------------|---------------|-----------------------------|-------------|--------------------|--------------------------|------------------------|-----------------------------|-----------------|
| 0 | 34,881 | 98.2 | 163 | 4.7 | 80 | 2.3 | 6.9 | 4.5 |
| 1 | 602 | 1.7 | 7 | 11.5 | 2 | 3.3 | 14.8 | 13.2 |
| 2 | 34 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 3 and over | 15 | 0.0 | 2 | 117.6 | 1 | 66.7 | 176.5 | 176.5 |
| Not Stated | 4 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 35,536 | 100.0 | 172 | 4.8 | 83 | 2.3 | 7.1 | 4.8 |

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

Table 3.7**Birthweight – All Singleton Births**Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|------------------------|---------------|-----------------------------|-------------|--------------------|--------------------------|------------------------|-----------------------------|-----------------|
| 500-749 | 63 | 0.1 | 40 | 388.3 | 32 | 507.9 | 699.0 | 666.7 |
| 750-999 | 74 | 0.1 | 29 | 281.6 | 14 | 189.2 | 417.5 | 310.3 |
| 1000-1249 | 100 | 0.2 | 27 | 212.6 | 13 | 130.0 | 315.0 | 201.8 |
| 1250-1499 | 123 | 0.2 | 23 | 157.5 | 11 | 89.4 | 232.9 | 170.4 |
| 1500-1999 | 488 | 0.8 | 44 | 82.7 | 25 | 51.2 | 129.7 | 75.8 |
| 2000-2499 | 1,467 | 2.5 | 34 | 22.7 | 17 | 11.6 | 34.0 | 21.6 |
| 2500-2999 | 6,476 | 10.8 | 51 | 7.8 | 19 | 2.9 | 10.7 | 8.0 |
| 3000-3499 | 19,838 | 33.2 | 40 | 2.0 | 11 | 0.6 | 2.6 | 2.1 |
| 3500-3999 | 20,830 | 34.8 | 20 | 1.0 | 6 | 0.3 | 1.2 | 0.9 |
| 4000-4499 | 8,634 | 14.4 | 13 | 1.5 | 3 | 0.3 | 1.9 | 1.6 |
| 4500 and over | 1,734 | 2.9 | 4 | 2.3 | 3 | 1.7 | 4.0 | 2.3 |
| Not Stated | 10 | 0.0 | 2 | 166.7 | 2 | 200.0 | 333.3 | 200.0 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Figure 3.6
Percentage Distribution of Live Births across Birthweight Groups, 2003



Note:
 - See Tables 3.8 and 3.9 for data.
 - This figure does not include 1 birth for which the sex was recorded as 'indeterminate' or 'unknown'.
 - 'Not Stated' data are not included in the calculation of percentages.

Table 3.8
Birthweight – Males

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 500-749 | 32 | 0.1 | 16 | 333.3 | 19 | 593.8 | 729.2 | 704.5 |
| 750-999 | 39 | 0.1 | 18 | 315.8 | 11 | 282.1 | 508.8 | 416.7 |
| 1000-1249 | 56 | 0.2 | 15 | 211.3 | 9 | 160.7 | 338.0 | 216.7 |
| 1250-1499 | 62 | 0.2 | 14 | 184.2 | 8 | 129.0 | 289.5 | 205.9 |
| 1500-1999 | 255 | 0.8 | 24 | 86.0 | 14 | 54.9 | 136.2 | 87.1 |
| 2000-2499 | 677 | 2.2 | 17 | 24.5 | 10 | 14.8 | 38.9 | 27.7 |
| 2500-2999 | 2,787 | 9.1 | 30 | 10.6 | 10 | 3.6 | 14.2 | 10.7 |
| 3000-3499 | 9,278 | 30.3 | 19 | 2.0 | 8 | 0.9 | 2.9 | 2.3 |
| 3500-3999 | 11,082 | 36.2 | 11 | 1.0 | 5 | 0.5 | 1.4 | 1.1 |
| 4000-4499 | 5,203 | 17.0 | 9 | 1.7 | 2 | 0.4 | 2.1 | 1.7 |
| 4500 and over | 1,155 | 3.8 | 4 | 3.5 | 1 | 0.9 | 4.3 | 3.5 |
| Not Stated | 8 | 0.0 | 0 | 0.0 | 2 | 250.0 | 250.0 | 142.9 |
| Total | 30,634 | 100.0 | 177 | 5.7 | 99 | 3.2 | 9.0 | 6.4 |

Note: The 2003 dataset includes 1 singleton birth for which the sex was recorded as 'indeterminate' or 'unknown'. This birth is excluded from Tables 3.8 and 3.9.

Table 3.9
Birthweight – Females

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

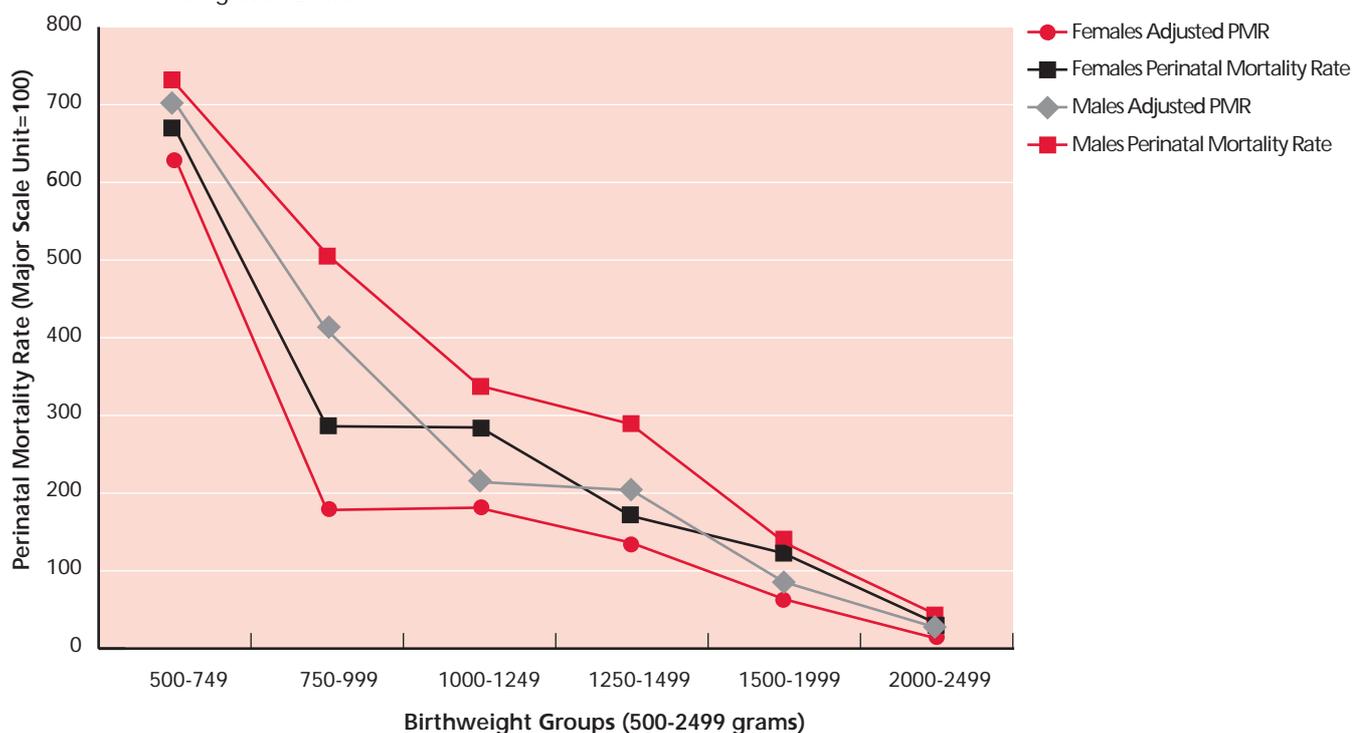
Singleton Births

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|---------------|-----------------------------|-------------|--------------------|--------------------------|------------------------|-----------------------------|-----------------|
| 500-749 | 31 | 0.1 | 24 | 436.4 | 13 | 419.4 | 672.7 | 632.7 |
| 750-999 | 35 | 0.1 | 10 | 222.2 | 3 | 85.7 | 288.9 | 179.5 |
| 1000-1249 | 44 | 0.2 | 12 | 214.3 | 4 | 90.9 | 285.7 | 183.7 |
| 1250-1499 | 61 | 0.2 | 9 | 128.6 | 3 | 49.2 | 171.4 | 134.3 |
| 1500-1999 | 233 | 0.8 | 20 | 79.1 | 11 | 47.2 | 122.5 | 63.3 |
| 2000-2499 | 790 | 2.7 | 17 | 21.1 | 7 | 8.9 | 29.7 | 16.3 |
| 2500-2999 | 3,689 | 12.6 | 21 | 5.7 | 9 | 2.4 | 8.1 | 5.9 |
| 3000-3499 | 10,560 | 36.2 | 21 | 2.0 | 3 | 0.3 | 2.3 | 1.9 |
| 3500-3999 | 9,748 | 33.4 | 9 | 0.9 | 1 | 0.1 | 1.0 | 0.7 |
| 4000-4499 | 3,431 | 11.7 | 4 | 1.2 | 1 | 0.3 | 1.5 | 1.5 |
| 4500 and over | 579 | 2.0 | 0 | 0.0 | 2 | 3.5 | 3.5 | 0.0 |
| Not Stated | 2 | 0.0 | 2 | 500.0 | 0 | 0.0 | 500.0 | 333.3 |
| Total | 29,203 | 100.0 | 149 | 5.1 | 57 | 2.0 | 7.0 | 4.7 |

Note: The 2003 dataset includes 1 singleton birth for which the sex was recorded as 'indeterminate' or 'unknown'. This birth is excluded from Tables 3.8 and 3.9.

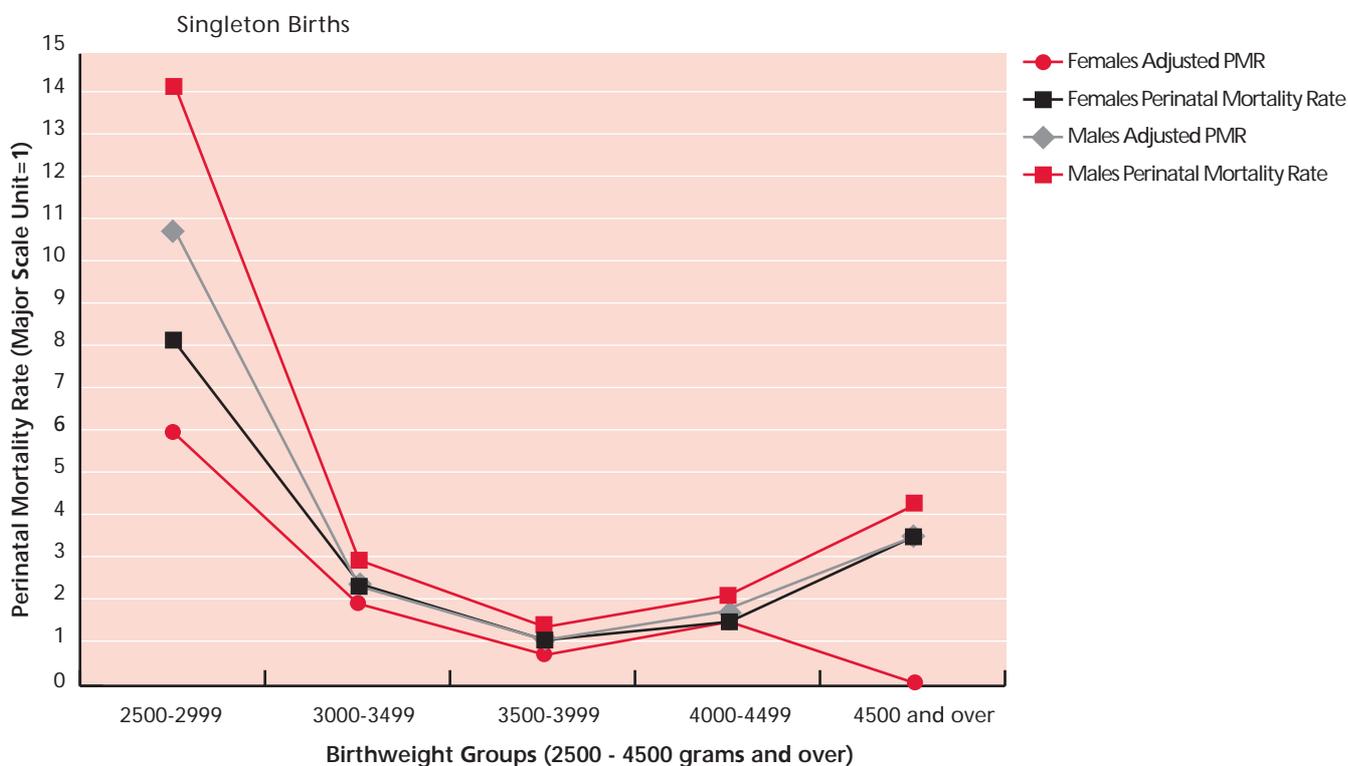
Figure 3.7 (A)
Perinatal Mortality Rates for Males and Females by Birthweight (500g – 2499grams), 2003

Singleton Births



Note:
- See Tables 3.8 and 3.9 for data.
- This figure does not include 1 birth for which the sex was recorded as 'indeterminate' or 'unknown'.

Figure 3.7 (B)
Perinatal Mortality Rates for Males and Females by Birthweight (2500 - 4500grams and over), 2003



Note:
- See Tables 3.8 and 3.9 for data.
- This figure does not include 5 births for which the sex was recorded as 'indeterminate' or 'unknown'.

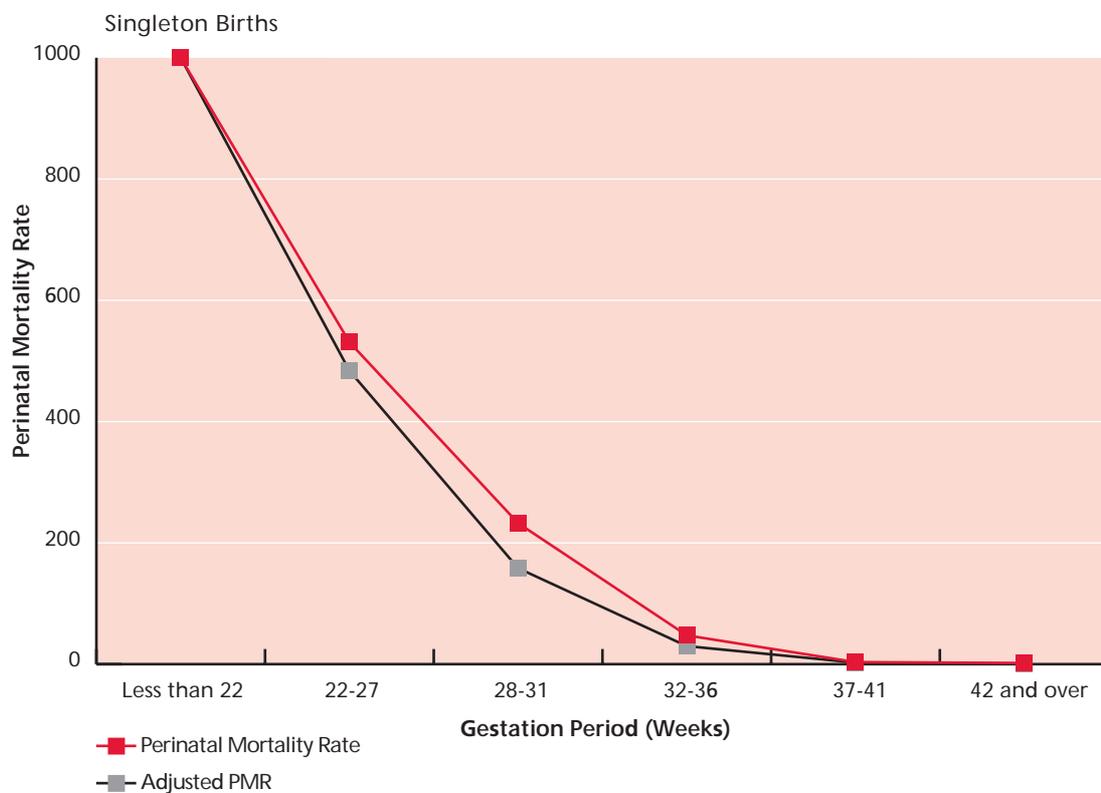
Table 3.10
Gestation Period at Delivery

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Gestation Period (weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Less than 22 | 1 | 0.0 | 2 | 666.7 | 1 | 1000.0 | 1000.0 | 1000.0 |
| 22-27 | 132 | 0.2 | 51 | 278.7 | 45 | 340.9 | 524.6 | 479.0 |
| 28-31 | 276 | 0.5 | 53 | 161.1 | 23 | 83.3 | 231.0 | 156.7 |
| 32-36 | 2,169 | 3.6 | 75 | 33.4 | 32 | 14.8 | 47.7 | 30.8 |
| 37-41 | 54,123 | 90.5 | 137 | 2.5 | 53 | 1.0 | 3.5 | 2.4 |
| 42 and over | 3,124 | 5.2 | 7 | 2.2 | 1 | 0.3 | 2.6 | 1.6 |
| Not Stated | 12 | 0.0 | 2 | 142.9 | 1 | 83.3 | 214.3 | 214.3 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Figure 3.8
Perinatal Mortality Rates by Gestation Period, 2003



Note: See Table 3.10 for data.

Table 3.11
Interval in Years Since Last Birth

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Interval Since Last Birth | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------------------|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| No Previous Births | 24,301 | 40.6 | 155 | 6.3 | 73 | 3.0 | 9.3 | 6.8 |
| 1 year or less | 552 | 0.9 | 10 | 17.8 | 4 | 7.2 | 24.9 | 17.9 |
| >1 year to 2 years | 8,634 | 14.4 | 43 | 5.0 | 18 | 2.1 | 7.0 | 4.4 |
| >2 years to 3 years | 8,941 | 14.9 | 31 | 3.5 | 14 | 1.6 | 5.0 | 3.6 |
| >3 years to 4 years | 5,656 | 9.5 | 25 | 4.4 | 13 | 2.3 | 6.7 | 4.4 |
| >4 years to 5 years | 3,556 | 5.9 | 14 | 3.9 | 8 | 2.2 | 6.2 | 3.1 |
| >5 years to 6 years | 2,318 | 3.9 | 10 | 4.3 | 3 | 1.3 | 5.6 | 4.3 |
| More than 6 years | 5,270 | 8.8 | 30 | 5.7 | 15 | 2.8 | 8.5 | 5.9 |
| Number of Previous Births Unknown | 2 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 607 | 1.0 | 9 | 14.6 | 8 | 13.2 | 27.6 | 21.2 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Table 3.12
Month of Birth

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Month of Birth | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|----------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| January | 4,862 | 8.1 | 24 | 4.9 | 12 | 2.5 | 7.4 | 4.5 |
| February | 4,438 | 7.4 | 22 | 4.9 | 9 | 2.0 | 7.0 | 4.7 |
| March | 5,124 | 8.6 | 29 | 5.6 | 20 | 3.9 | 9.5 | 6.6 |
| April | 4,956 | 8.3 | 23 | 4.6 | 16 | 3.2 | 7.8 | 5.6 |
| May | 5,238 | 8.8 | 21 | 4.0 | 10 | 1.9 | 5.9 | 4.4 |
| June | 5,041 | 8.4 | 36 | 7.1 | 18 | 3.6 | 10.6 | 7.9 |
| July | 5,302 | 8.9 | 35 | 6.6 | 17 | 3.2 | 9.7 | 6.4 |
| August | 5,048 | 8.4 | 31 | 6.1 | 16 | 3.2 | 9.3 | 6.7 |
| September | 5,143 | 8.6 | 26 | 5.0 | 11 | 2.1 | 7.2 | 4.8 |
| October | 5,117 | 8.6 | 30 | 5.8 | 12 | 2.3 | 8.2 | 5.6 |
| November | 4,682 | 7.8 | 21 | 4.5 | 3 | 0.6 | 5.1 | 3.6 |
| December | 4,886 | 8.2 | 29 | 5.9 | 12 | 2.5 | 8.3 | 5.9 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Table 3.13
Mother's Health Board of Residence

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Mother's Health Board of Residence | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|------------------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Eastern | 22,635 | 37.8 | 127 | 5.6 | 65 | 2.9 | 8.4 | 5.7 |
| Midland | 3,615 | 6.0 | 22 | 6.0 | 8 | 2.2 | 8.2 | 5.8 |
| Mid-Western | 4,941 | 8.3 | 25 | 5.0 | 10 | 2.0 | 7.0 | 5.4 |
| North-Eastern | 5,534 | 9.2 | 34 | 6.1 | 10 | 1.8 | 7.9 | 4.9 |
| North-Western | 3,030 | 5.1 | 14 | 4.6 | 13 | 4.3 | 8.9 | 7.2 |
| South-Eastern | 6,596 | 11.0 | 36 | 5.4 | 18 | 2.7 | 8.1 | 6.0 |
| Southern | 8,192 | 13.7 | 38 | 4.6 | 13 | 1.6 | 6.2 | 3.9 |
| Western | 5,268 | 8.8 | 29 | 5.5 | 18 | 3.4 | 8.9 | 6.4 |
| Other | 24 | 0.0 | 1 | 40.0 | 0 | 0.0 | 40.0 | 40.0 |
| Unknown | 2 | 0.0 | 1 | 333.3 | 1 | 500.0 | 666.7 | 666.7 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

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

Section 3 General Characteristics

Part 2 Multiple Births

Section 3 General Characteristics

Part 2 Multiple Births

Table 3.14
Maternities, Twins, Triplets and Twinning Rate for 2003

| Births* | Maternities | Sets of Twins | Sets of Triplets | Twinning Rate |
|---------|-------------|---------------|------------------|---------------|
| 61,989 | 61,064 | 873 | 26 | 14.3 |

* Includes stillbirths.

Note: In 2003 there were 1,755 Twin births and 80 triplet births notified to the NPRS. Of these 10 births weighed <500 grams. In accordance with the WHO guidelines the National Perinatal Dataset includes only births weighing 500 grams or more. Therefore, for the purposes of this report, the number of *complete* sets of Twins is 873 and the number of *complete* sets of Triplets is 26.

See also Section 1, Introduction, Page 9.

Table 3.15
Age of Mother

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Age of Mother | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 15-19 Years | 43 | 2.4 | 0 | 0.0 | 1 | 23.3 | 23.3 | 0.0 |
| 20-24 Years | 154 | 8.6 | 6 | 37.5 | 7 | 45.5 | 81.3 | 75.5 |
| 25-29 Years | 380 | 21.2 | 4 | 10.4 | 3 | 7.9 | 18.2 | 18.2 |
| 30-34 Years | 612 | 34.1 | 9 | 14.5 | 6 | 9.8 | 24.2 | 24.2 |
| 35-39 Years | 541 | 30.1 | 10 | 18.1 | 3 | 5.5 | 23.6 | 23.6 |
| 40-44 Years | 58 | 3.2 | 1 | 16.9 | 0 | 0.0 | 16.9 | 16.9 |
| 45 Years and over | 6 | 0.3 | 0 | 0.0 | 1 | 166.7 | 166.7 | 0.0 |
| Not Stated | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

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

Table 3.16
Maternal Parity

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Maternal Parity | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0 | 741 | 41.3 | 20 | 26.3 | 10 | 13.5 | 39.4 | 36.9 |
| 1 | 616 | 34.3 | 4 | 6.5 | 7 | 11.4 | 17.7 | 16.2 |
| 2 | 267 | 14.9 | 6 | 22.0 | 3 | 11.2 | 33.0 | 33.0 |
| 3 | 111 | 6.2 | 0 | 0.0 | 1 | 9.0 | 9.0 | 9.0 |
| 4 | 42 | 2.3 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 5 | 12 | 0.7 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 6 | 4 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| More than 6 | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 3.17
Marital Status

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Marital Status | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|----------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Married | 1,377 | 76.7 | 21 | 15.0 | 14 | 10.2 | 25.0 | 23.6 |
| Single | 394 | 21.9 | 9 | 22.3 | 7 | 17.8 | 39.7 | 37.3 |
| Widowed | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Separated | 16 | 0.9 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Divorced | 6 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 3.18
Father's Occupation

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Father's Occupation | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Farmers & Farm Managers | 87 | 4.8 | 3 | 33.3 | 3 | 34.5 | 66.7 | 66.7 |
| Other Agricultural Occupations & Fishermen | 22 | 1.2 | 0 | 0.0 | 1 | 45.5 | 45.5 | 0.0 |
| Higher-Professional | 143 | 8.0 | 2 | 13.8 | 0 | 0.0 | 13.8 | 13.8 |
| Lower-Professional Managers | 108 | 6.0 | 3 | 27.0 | 1 | 9.3 | 36.0 | 27.3 |
| Salaried-Employees | 183 | 10.2 | 2 | 10.8 | 0 | 0.0 | 10.8 | 10.8 |
| Non-Manual Workers | 58 | 3.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Other Non-Manual Workers | 132 | 7.4 | 2 | 14.9 | 1 | 7.6 | 22.4 | 22.4 |
| Skilled Manual Workers | 150 | 8.4 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Semi-skilled Manual Workers | 360 | 20.1 | 4 | 11.0 | 7 | 19.4 | 30.2 | 30.2 |
| Unskilled Manual Workers | 74 | 4.1 | 0 | 0.0 | 2 | 27.0 | 27.0 | 27.0 |
| Unemployed | 20 | 1.1 | 1 | 47.6 | 1 | 50.0 | 95.2 | 95.2 |
| Not Classifiable | 48 | 2.7 | 2 | 40.0 | 0 | 0.0 | 40.0 | 40.0 |
| Not Applicable | 21 | 1.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 334 | 18.6 | 9 | 26.2 | 5 | 15.0 | 40.8 | 38.0 |
| Total | 55 | 3.1 | 2 | 35.1 | 0 | 0.0 | 35.1 | 35.1 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Note: In this table 'Not Classifiable' includes 1 Father whose occupation was recorded as 'Home Duties'.
See Appendix C for a description of the classification system for occupations.

Table 3.19
Mother's Occupation

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Mother's Occupation | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Farmers & Farm Managers | 6 | 0.3 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Higher-Professional | 102 | 5.7 | 1 | 9.7 | 0 | 0.0 | 9.7 | 9.7 |
| Lower-Professional Managers | 264 | 14.7 | 4 | 14.9 | 2 | 7.6 | 22.4 | 22.4 |
| Salaried-Employees | 127 | 7.1 | 3 | 23.1 | 1 | 7.9 | 30.8 | 30.8 |
| Non-Manual Workers | 18 | 1.0 | 0 | 0.0 | 1 | 55.6 | 55.6 | 55.6 |
| Other Non-Manual Workers | 401 | 22.3 | 9 | 22.0 | 4 | 10.0 | 31.7 | 31.7 |
| Skilled Manual Workers | 181 | 10.1 | 4 | 21.6 | 3 | 16.6 | 37.8 | 27.3 |
| Semi-skilled Manual Workers | 13 | 0.7 | 1 | 71.4 | 1 | 76.9 | 142.9 | 142.9 |
| Unemployed | 77 | 4.3 | 1 | 12.8 | 3 | 39.0 | 51.3 | 51.3 |
| Not Classifiable | 82 | 4.6 | 3 | 35.3 | 1 | 12.2 | 47.1 | 47.1 |
| Home Duties | 35 | 1.9 | 1 | 27.8 | 2 | 57.1 | 83.3 | 57.1 |
| Not Stated | 465 | 25.9 | 3 | 6.4 | 3 | 6.5 | 12.8 | 12.8 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

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

Table 3.20
Number of Previous Stillbirths
 (for women having second and subsequent births)

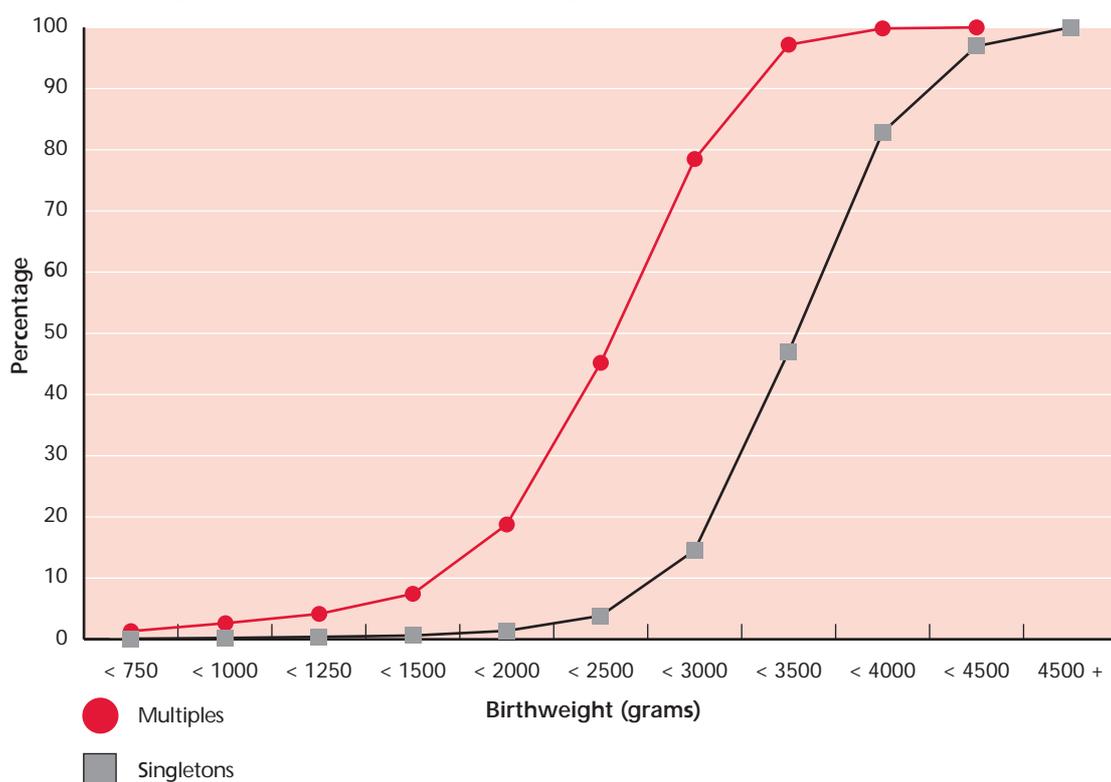
Live Births, Stillbirths, Early Neonatal Deaths
 and Mortality Rates, 2003

Multiple Births

| Previous Stillbirths | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Rate Mortality | Adjusted PMR |
|----------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0 | 1,032 | 97.9 | 10 | 9.6 | 11 | 10.7 | 20.2 | 19.2 |
| 1 | 20 | 1.9 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 2 | 2 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,054 | 100.0 | 10 | 9.4 | 11 | 10.4 | 19.7 | 18.8 |

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

Figure 3.9
Birthweights: Cumulative Percentages of Singleton and Multiple Live Births, 2003



Note: Data are compiled from Tables 3.7 and 3.21.

Table 3.21
Birthweight – All Multiple Births

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 500-749 | 22 | 1.2 | 9 | 290.3 | 15 | 681.8 | 774.2 | 758.6 |
| 750-999 | 24 | 1.3 | 6 | 200.0 | 4 | 166.7 | 333.3 | 333.3 |
| 1000-1249 | 30 | 1.7 | 4 | 117.6 | 0 | 0.0 | 117.6 | 117.6 |
| 1250-1499 | 53 | 3.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 1500-1999 | 215 | 12.0 | 2 | 9.2 | 1 | 4.7 | 13.8 | 9.3 |
| 2000-2499 | 465 | 25.9 | 3 | 6.4 | 1 | 2.2 | 8.5 | 8.5 |
| 2500-2999 | 607 | 33.8 | 3 | 4.9 | 0 | 0.0 | 4.9 | 4.9 |
| 3000-3499 | 335 | 18.7 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 3500-3999 | 43 | 2.4 | 1 | 22.7 | 0 | 0.0 | 22.7 | 22.7 |
| 4000-4499 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 0 | 0.0 | 2 | 1000.0 | 0 | 0.0 | 1000.0 | 1000.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 3.22
Birthweight – Males

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|-------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 500-749 | 13 | 1.5 | 6 | 315.8 | 10 | 769.2 | 842.1 | 823.5 |
| 750-999 | 8 | 0.9 | 5 | 384.6 | 1 | 125.0 | 461.5 | 461.5 |
| 1000-1249 | 15 | 1.7 | 2 | 117.6 | 0 | 0.0 | 117.6 | 117.6 |
| 1250-1499 | 14 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 1500-1999 | 98 | 11.2 | 1 | 10.1 | 0 | 0.0 | 10.1 | 10.1 |
| 2000-2499 | 202 | 23.0 | 2 | 9.8 | 0 | 0.0 | 9.8 | 9.8 |
| 2500-2999 | 309 | 35.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 3000-3499 | 189 | 21.5 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 3500-3999 | 29 | 3.3 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 4000-4499 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 0 | 0.0 | 1 | 1000.0 | 0 | 0.0 | 1000.0 | 1000.0 |
| Total | 878 | 100.0 | 17 | 19.0 | 11 | 12.5 | 31.3 | 29.1 |

Note: The 2003 dataset includes 3 multiple births for which the sex was recorded as 'indeterminate' or 'unknown'. These births are excluded from Tables 3.22 and 3.23.

Table 3.23
Birthweight – Females

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|-------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 500-749 | 9 | 1.0 | 3 | 250.0 | 5 | 555.6 | 666.7 | 666.7 |
| 750-999 | 16 | 1.8 | 1 | 58.8 | 3 | 187.5 | 235.3 | 235.3 |
| 1000-1249 | 15 | 1.6 | 2 | 117.6 | 0 | 0.0 | 117.6 | 117.6 |
| 1250-1499 | 37 | 4.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 1500-1999 | 116 | 12.7 | 1 | 8.5 | 1 | 8.6 | 17.1 | 8.6 |
| 2000-2499 | 263 | 28.8 | 1 | 3.8 | 1 | 3.8 | 7.6 | 7.6 |
| 2500-2999 | 298 | 32.6 | 3 | 10.0 | 0 | 0.0 | 10.0 | 10.0 |
| 3000-3499 | 146 | 16.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 3500-3999 | 14 | 1.5 | 1 | 66.7 | 0 | 0.0 | 66.7 | 66.7 |
| Not Stated | 0 | 0.0 | 1 | 1000.0 | 0 | 0.0 | 1000.0 | 1000.0 |
| Total | 914 | 100.0 | 13 | 14.0 | 10 | 10.9 | 24.8 | 23.8 |

Note: The 2003 dataset includes 3 multiple births for which the sex was recorded as 'indeterminate' or 'unknown'. These births are excluded from Tables 3.22 and 3.23.

Table 3.24
Gestation Period at Delivery

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Gestation Period (weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 22-27 | 43 | 2.4 | 13 | 232.1 | 18 | 418.6 | 553.6 | 537.0 |
| 28-31 | 92 | 5.1 | 6 | 61.2 | 2 | 21.7 | 81.6 | 72.2 |
| 32-36 | 621 | 34.6 | 6 | 9.6 | 0 | 0.0 | 9.6 | 9.6 |
| 37-41 | 1,038 | 57.8 | 5 | 4.8 | 1 | 1.0 | 5.8 | 5.8 |
| 42 and over | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 3.25
Interval in Years Since Last Birth

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Interval Since Last Birth | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| No Previous Births | 741 | 41.3 | 20 | 26.3 | 10 | 13.5 | 39.4 | 36.9 |
| 1 year or less | 26 | 1.4 | 2 | 71.4 | 1 | 38.5 | 107.1 | 107.1 |
| >1 year to 2 years | 224 | 12.5 | 3 | 13.2 | 8 | 35.7 | 48.5 | 48.5 |
| >2 years to 3 years | 247 | 13.8 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| >3 years to 4 years | 181 | 10.1 | 2 | 10.9 | 0 | 0.0 | 10.9 | 10.9 |
| >4 years to 5 years | 124 | 6.9 | 3 | 23.6 | 0 | 0.0 | 23.6 | 23.6 |
| >5 years to 6 years | 89 | 5.0 | 0 | 0.0 | 1 | 11.2 | 11.2 | 11.2 |
| More than 6 years | 144 | 8.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 19 | 1.1 | 0 | 0.0 | 1 | 52.6 | 52.6 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 3.26
Month of Birth

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Month of Birth | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|----------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| January | 124 | 6.9 | 1 | 8.0 | 0 | 0.0 | 8.0 | 8.0 |
| February | 125 | 7.0 | 1 | 7.9 | 0 | 0.0 | 7.9 | 7.9 |
| March | 114 | 6.4 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| April | 172 | 9.6 | 3 | 17.1 | 1 | 5.8 | 22.9 | 22.9 |
| May | 177 | 9.9 | 2 | 11.2 | 3 | 16.9 | 27.9 | 27.9 |
| June | 177 | 9.9 | 6 | 32.8 | 4 | 22.6 | 54.6 | 49.5 |
| July | 161 | 9.0 | 1 | 6.2 | 2 | 12.4 | 18.5 | 6.3 |
| August | 130 | 7.2 | 3 | 22.6 | 3 | 23.1 | 45.1 | 45.1 |
| September | 151 | 8.4 | 4 | 25.8 | 4 | 26.5 | 51.6 | 51.6 |
| October | 191 | 10.6 | 7 | 35.4 | 1 | 5.2 | 40.4 | 40.4 |
| November | 128 | 7.1 | 0 | 0.0 | 1 | 7.8 | 7.8 | 7.8 |
| December | 145 | 8.1 | 2 | 13.6 | 2 | 13.8 | 27.2 | 27.2 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 3.27
Mother's Health Board of Residence

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Mother's Health Board of Residence | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|------------------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Eastern | 702 | 39.1 | 15 | 20.9 | 10 | 14.2 | 34.9 | 34.9 |
| Midland | 86 | 4.8 | 1 | 11.5 | 0 | 0.0 | 11.5 | 11.5 |
| Mid-Western | 155 | 8.6 | 2 | 12.7 | 2 | 12.9 | 25.5 | 25.5 |
| North-Eastern | 129 | 7.2 | 1 | 7.7 | 2 | 15.5 | 23.1 | 23.1 |
| North-Western | 70 | 3.9 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| South-Eastern | 225 | 12.5 | 1 | 4.4 | 0 | 0.0 | 4.4 | 4.4 |
| Southern | 257 | 14.3 | 5 | 19.1 | 3 | 11.7 | 30.5 | 26.8 |
| Western | 169 | 9.4 | 5 | 28.7 | 3 | 17.8 | 46.0 | 40.5 |
| Other | 2 | 0.1 | 0 | 0.0 | 1 | 500.0 | 500.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

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



Section 4
Perinatal Care

Section 4 Perinatal Care

Introduction

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

Section 4 Perinatal Care

Part 1 Singleton Births

Section 4 Perinatal Care

Part 1 Singleton Births

Table 4.1
Type of Antenatal Care

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Type of Antenatal Care | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Hospital/Obstetrician General Practitioner Only | 13,291 | 22.2 | 73 | 5.5 | 47 | 3.5 | 9.0 | 6.2 |
| Hospital and G.P. Combined | 191 | 0.3 | 3 | 15.5 | 2 | 10.5 | 25.8 | 15.6 |
| None | 45,511 | 76.1 | 235 | 5.1 | 100 | 2.2 | 7.3 | 5.0 |
| Midwife Only | 745 | 1.2 | 15 | 19.7 | 7 | 9.4 | 28.9 | 25.1 |
| Unknown | 93 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| | 6 | 0.0 | 1 | 142.9 | 0 | 0.0 | 142.9 | 142.9 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

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

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Antenatal Length of Stay | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 0-1 Days | 53,444 | 89.7 | 268 | 5.0 | 119 | 2.2 | 7.2 | 5.0 |
| 2 Days | 3,237 | 5.4 | 25 | 7.7 | 9 | 2.8 | 10.4 | 8.0 |
| 3-5 Days | 1,828 | 3.1 | 22 | 11.9 | 12 | 6.6 | 18.4 | 11.4 |
| 6-8 Days | 479 | 0.8 | 3 | 6.2 | 4 | 8.4 | 14.5 | 10.4 |
| 9-11 Days | 186 | 0.3 | 3 | 15.9 | 5 | 26.9 | 42.3 | 26.9 |
| 12-14 Days | 116 | 0.2 | 2 | 16.9 | 0 | 0.0 | 16.9 | 16.9 |
| 2 weeks or more | 255 | 0.4 | 4 | 15.4 | 7 | 27.5 | 42.5 | 27.5 |
| Not Stated | 56 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 59,601 | 100.0 | 327 | 5.5 | 156 | 2.6 | 8.1 | 5.6 |

Notes:

- 'Not Stated' includes;

36 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.

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

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

- Domiciliary births, of which there were 236, are excluded from this table. See Appendix H for detailed analysis.

Table 4.3
Mother's Length of Stay in Hospital After Delivery

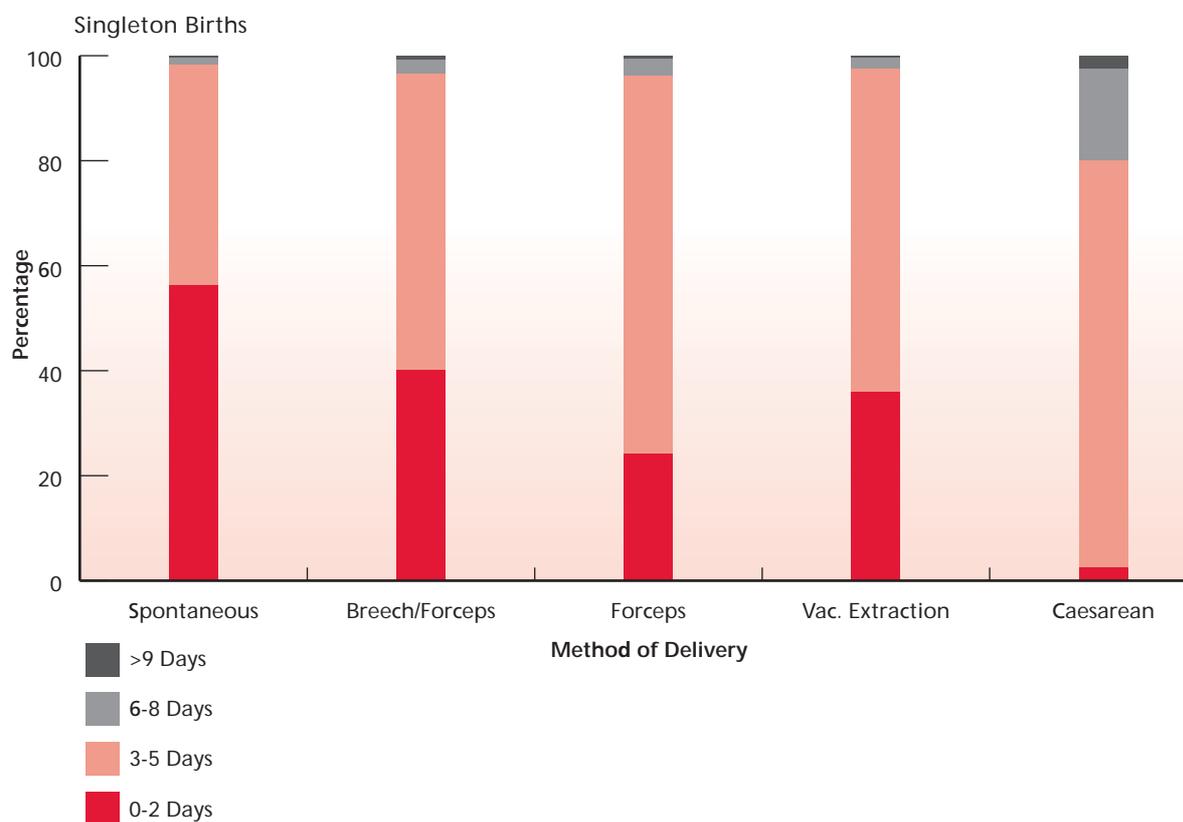
Live Births, Stillbirths, Early Neonatal Deaths
 and Mortality Rates, 2003

Singleton Births

| Postnatal Length of Stay | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 0-1 Days | 7,186 | 12.1 | 168 | 22.8 | 58 | 8.1 | 30.7 | 22.4 |
| 2 Days | 16,099 | 27.0 | 73 | 4.5 | 32 | 2.0 | 6.5 | 4.1 |
| 3-5 Days | 32,570 | 54.6 | 66 | 2.0 | 51 | 1.6 | 3.6 | 2.4 |
| 6-8 Days | 3,208 | 5.4 | 13 | 4.0 | 7 | 2.2 | 6.2 | 5.0 |
| 9-11 Days | 345 | 0.6 | 3 | 8.6 | 3 | 8.7 | 17.2 | 17.2 |
| 12-14 Days | 75 | 0.1 | 2 | 26.0 | 2 | 26.7 | 51.9 | 26.7 |
| 2 weeks or more | 67 | 0.1 | 1 | 14.7 | 1 | 14.9 | 29.4 | 29.4 |
| Not Stated | 51 | 0.1 | 1 | 19.2 | 2 | 39.2 | 57.7 | 57.7 |
| Total | 59,601 | 100.0 | 327 | 5.5 | 156 | 2.6 | 8.1 | 5.6 |

Note:
 -'Not Stated' includes 36 births where place of birth was recorded as domiciliary but birth was registered by a hospital.
 Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.
 -Domiciliary births, of which there were 236, are excluded from this table. See Appendix H for detailed analysis.

Figure 4.1
Mother's Postnatal Length of Stay: Cumulative Percentages by Method of Delivery, 2003



Note: Data are compiled from Appendix F, Table F9. 'Not Stated' data are not included in the calculation of percentages.

Table 4.4
Method of Delivery

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Method of Delivery | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-------------------------------|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Spontaneous | 37,240 | 62.2 | 235 | 6.3 | 68 | 1.8 | 8.1 | 6.1 |
| Breech/Forceps | 224 | 0.4 | 34 | 131.8 | 14 | 62.5 | 186.0 | 132.2 |
| Forceps | 1,730 | 2.9 | 7 | 4.0 | 1 | 0.6 | 4.6 | 3.5 |
| Vacuum Extraction | 6,656 | 11.1 | 6 | 0.9 | 6 | 0.9 | 1.8 | 1.2 |
| Caesarean | 13,846 | 23.1 | 42 | 3.0 | 66 | 4.8 | 7.8 | 4.3 |
| Other specified & Combined | 133 | 0.2 | 2 | 14.8 | 1 | 7.5 | 22.2 | 14.9 |
| Not Stated | 8 | 0.0 | 1 | 111.1 | 0 | 0.0 | 111.1 | 0.0 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Table 4.5
Advance Hospital Bookings

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Singleton Births

| Advance Hospital Bookings | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|------------------------------|---------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Booked | 58,136 | 97.5 | 299 | 5.1 | 141 | 2.4 | 7.5 | 5.2 |
| Not Booked | 1,427 | 2.4 | 28 | 19.2 | 15 | 10.5 | 29.6 | 23.5 |
| Not Stated | 38 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 59,601 | 100.0 | 327 | 5.5 | 156 | 2.6 | 8.1 | 5.6 |

Note:

- 'Not Stated' includes 33 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, hospital bookings were not applicable.
- Domiciliary births, of which there were 236, are excluded from this table. See Appendix H for detailed analysis.

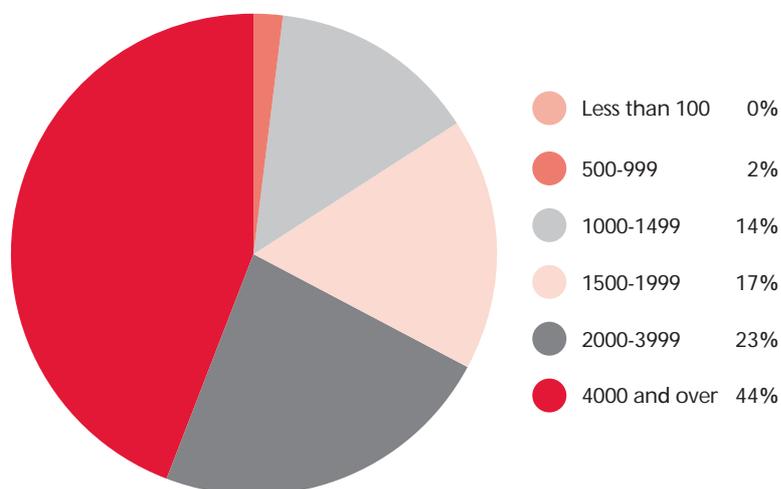
Table 4.6
Size of Maternity Unit (number of live births and stillbirths annually)

Live Births, Stillbirths, Early Neonatal Deaths
 and Mortality Rates, 2003

| Size of Maternity Unit | Number of Hospitals | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|------------------------|---------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Less than 100 | 10 | 17 | 0.0 | 0 | 0.0 | 2 | 117.6 | 117.6 | 62.5 |
| 500-999 | 1 | 936 | 1.5 | 4 | 4.3 | 0 | 0.0 | 4.3 | 3.2 |
| 1000-1499 | 6 | 8,498 | 13.8 | 48 | 5.6 | 20 | 2.4 | 8.0 | 5.3 |
| 1500-1999 | 6 | 10,535 | 17.2 | 51 | 4.8 | 29 | 2.8 | 7.6 | 5.9 |
| 2000-3999 | 5 | 14,025 | 22.8 | 81 | 5.7 | 30 | 2.1 | 7.9 | 5.5 |
| 4000 and over | 4 | 27,385 | 44.6 | 173 | 6.3 | 96 | 3.5 | 9.8 | 7.1 |
| Total | 32 | 61,396 | 100.0 | 357 | 5.8 | 177 | 2.9 | 8.6 | 6.2 |

Note: This table includes multiple births but excludes domiciliary births of which there were 236 in total.

Figure 4.2
Percentage of Live Births by Size of Maternity Unit, 2003



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

Table 4.7
Inter-Hospital Transfer of Infants

Live Births, Early Neonatal Deaths
and Mortality Rate, 2003

Singleton Births

| Infant Transfers | Live Births | Per Cent (%) Live Births | Early Neonatal Deaths | Early Neonatal Rate |
|------------------|---------------|--------------------------|-----------------------|---------------------|
| Transferred | 363 | 0.6 | 12 | 33.1 |
| Not Transferred | 59,197 | 99.3 | 143 | 2.4 |
| Not Stated | 41 | 0.1 | 1 | 24.4 |
| Total | 59,601 | 100.0 | 156 | 2.6 |

Note:

- 'Not Stated' includes 32 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, transfer indicators were not applicable.
- Domiciliary births, of which there were 236, are excluded from this table. See Appendix H for detailed analysis.

Table 4.8
Rubella: Immune Status of Mother
Numbers and Percentages, 2003

Singleton Births

| Rubella | Frequency | Per Cent (%) |
|--------------|---------------|--------------|
| Immune | 52,552 | 87.4 |
| Not Immune | 2,009 | 3.3 |
| Unknown | 5,597 | 9.3 |
| Not Stated | 6 | 0.0 |
| Total | 60,164 | 100.0 |

Table 4.9
Age of Mother by Infant's Type of Feeding
Numbers and Percentages, 2003

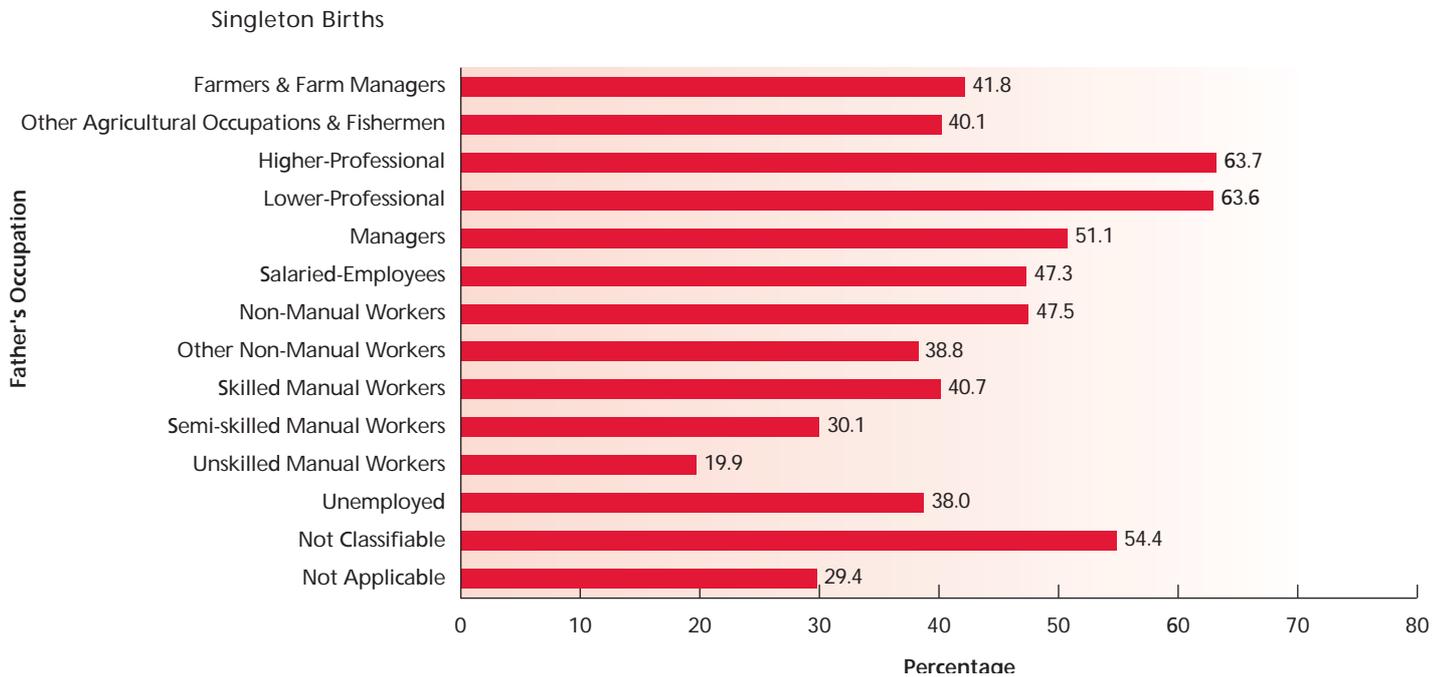
Singleton Births

| Age of Mother | Type of Feeding | | | | |
|--|-------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------------|
| Frequency Row Per Cent Col. Per Cent | Artificial | Breast | Combined | Not Stated | Total |
| Under 15 Years | 11 78.57 0.03 | 3 21.43 0.01 | 0 0.00 0.00 | 0 0.00 0.00 | 14 0.02 |
| 15-19 Years | 2,197 78.49 6.67 | 541 19.33 2.18 | 56 2.00 2.78 | 5 0.18 5.75 | 2,799 4.68 |
| 20-24 Years | 5,530 66.54 16.79 | 2,545 30.62 10.27 | 220 2.65 10.92 | 16 0.19 18.39 | 8,311 13.89 |
| 25-29 Years | 7,934 55.22 24.08 | 5,862 40.80 23.65 | 555 3.86 27.54 | 18 0.13 20.69 | 14,369 24.01 |
| 30-34 Years | 10,429 51.00 31.66 | 9,235 45.16 37.25 | 757 3.70 37.57 | 28 0.14 32.18 | 20,449 34.17 |
| 35-39 Years | 5,729 49.35 17.39 | 5,523 47.58 22.28 | 342 2.95 16.97 | 15 0.13 17.24 | 11,609 19.40 |
| 40-44 Years | 1,062 48.92 3.22 | 1,027 47.31 4.14 | 78 3.59 3.87 | 4 0.18 4.60 | 2,171 3.63 |
| 45 Years and over | 29 44.62 0.09 | 31 47.69 0.13 | 5 7.69 0.25 | 0 0.00 0.00 | 65 0.11 |
| Not Stated | 24 48.00 0.07 | 23 46.00 0.09 | 2 4.00 0.10 | 1 2.00 1.15 | 50 0.08 |
| Total | 32,945 55.06 | 24,790 41.43 | 2,015 3.37 | 87 0.15 | 59,837 100.00 |

Note:

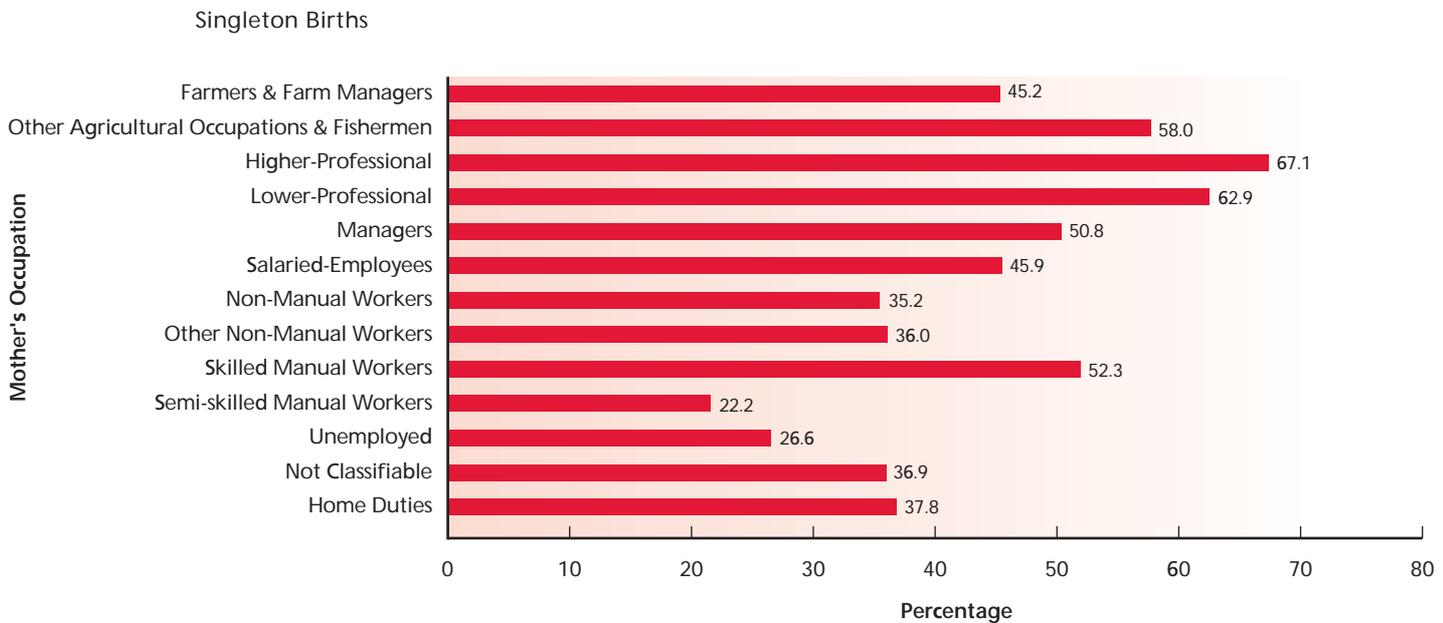
- See Appendix F for an explanation of the table format.
- 'Not Stated' contains 73 Early Neonatal Deaths for which Type of Feeding was not stated.

Figure 4.3
Percentage of Mothers Breastfeeding by Father's Occupation, 2003



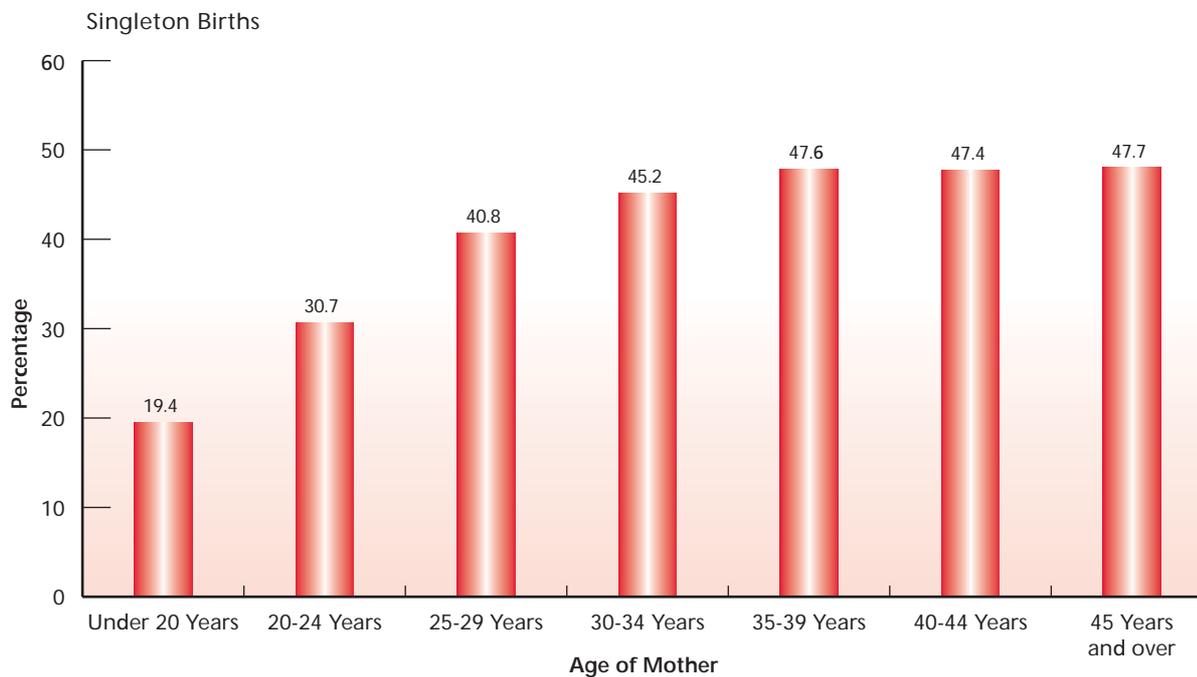
Note: Data are compiled from Appendix F, Table F15. 'Not Stated' data are not included in the calculation of percentages.

Figure 4.4
Percentage of Mothers Breastfeeding by Mother's Occupation, 2003



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

Figure 4.5
Percentage of Mothers Breastfeeding by Age of Mother, 2003



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

Section 4
Perinatal Care

Part 2 Multiple Births

Section 4 Perinatal Care

Part 2 Multiple Births

Table 4.10
Type of Antenatal Care

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Type of Antenatal Care | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-------------------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| Hospital/Obstetrician | 636 | 35.4 | 12 | 18.5 | 9 | 14.2 | 32.4 | 32.4 |
| General Practitioner Only | 3 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Hospital and G.P. Combined | 1,127 | 62.8 | 18 | 15.7 | 12 | 10.6 | 26.2 | 23.6 |
| None | 27 | 1.5 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Midwife Only | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

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

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Antenatal Length of Stay | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 0-1 Days | 1,324 | 73.8 | 19 | 14.1 | 16 | 12.1 | 26.1 | 24.6 |
| 2 Days | 133 | 7.4 | 1 | 7.5 | 2 | 15.0 | 22.4 | 22.4 |
| 3-5 Days | 144 | 8.0 | 7 | 46.4 | 1 | 6.9 | 53.0 | 53.0 |
| 6-8 Days | 74 | 4.1 | 1 | 13.3 | 1 | 13.5 | 26.7 | 13.5 |
| 9-11 Days | 48 | 2.7 | 1 | 20.4 | 1 | 20.8 | 40.8 | 40.8 |
| 12-14 Days | 23 | 1.3 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 2 weeks or more | 49 | 2.7 | 1 | 20.0 | 0 | 0.0 | 20.0 | 20.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Note: There were no domiciliary multiple births.

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

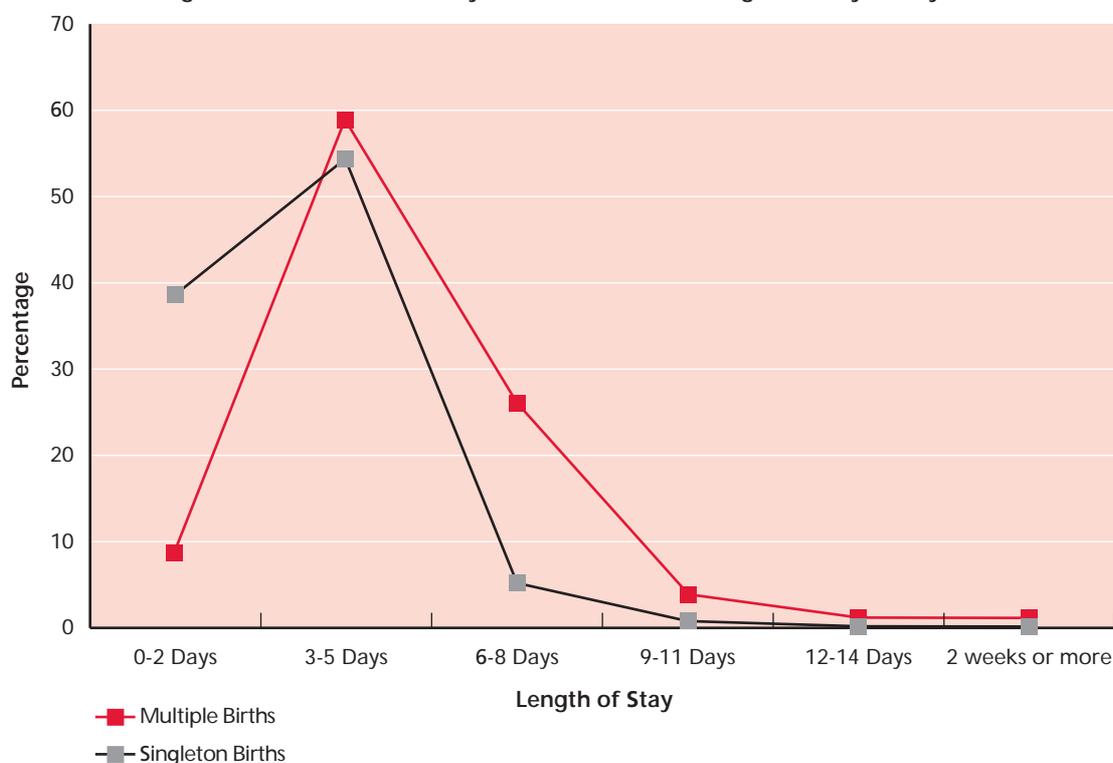
Live Births, Stillbirths, Early Neonatal Deaths
 and Mortality Rates, 2003

Multiple Births

| Postnatal Length of Stay | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|--------------------------|--------------|-----------------------------|-------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 0-1 Days | 52 | 2.9 | 8 | 133.3 | 9 | 173.1 | 283.3 | 271.2 |
| 2 Days | 99 | 5.5 | 3 | 29.4 | 3 | 30.3 | 58.8 | 49.5 |
| 3-5 Days | 1,070 | 59.6 | 11 | 10.2 | 7 | 6.5 | 16.7 | 15.7 |
| 6-8 Days | 481 | 26.8 | 4 | 8.2 | 2 | 4.2 | 12.4 | 12.4 |
| 9-11 Days | 65 | 3.6 | 2 | 29.9 | 0 | 0.0 | 29.9 | 29.9 |
| 12-14 Days | 14 | 0.8 | 1 | 66.7 | 0 | 0.0 | 66.7 | 66.7 |
| 2 weeks or more | 13 | 0.7 | 1 | 71.4 | 0 | 0.0 | 71.4 | 71.4 |
| Not Stated | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Note: There were no domiciliary multiple births.

Figure 4.6
Percentage Distribution of Births by Mother's Postnatal Length of Stay in Days, 2003



Note: Includes stillbirths. See Tables 4.3 and 4.12 for data. 'Not Stated' data are not included in the calculation of percentages.

Table 4.13
Method of Delivery

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Method of Delivery | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|----------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Spontaneous | 472 | 26.3 | 11 | 22.8 | 9 | 19.1 | 41.4 | 39.4 |
| Breech/Forceps | 91 | 5.1 | 2 | 21.5 | 3 | 33.0 | 53.8 | 53.8 |
| Forceps | 28 | 1.6 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Vacuum Extraction | 146 | 8.1 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Caesarean | 1,047 | 58.3 | 16 | 15.1 | 9 | 8.6 | 23.5 | 21.7 |
| Other specified & Combined | 11 | 0.6 | 1 | 83.3 | 0 | 0.0 | 83.3 | 83.3 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 4.14
Advance Hospital Bookings

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 2003

Multiple Births

| Advance Hospital Bookings | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| Booked | 1,746 | 97.3 | 29 | 16.3 | 20 | 11.5 | 27.6 | 26.0 |
| Not Booked | 49 | 2.7 | 1 | 20.0 | 1 | 20.4 | 40.0 | 40.0 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Note: There were no domiciliary multiple births.

Table 4.15
Inter-Hospital Transfer of Infants

Live Births, Early Neonatal Deaths
and Mortality Rate, 2003

Multiple Births

| Infant Transfers | Live Births | Per Cent (%) Live Births | Early Neonatal Deaths | Early Neonatal Rate |
|------------------|--------------|--------------------------|-----------------------|---------------------|
| Transferred | 54 | 3.0 | 1 | 18.5 |
| Not Transferred | 1,741 | 97.0 | 20 | 11.5 |
| Total | 1,795 | 100.0 | 21 | 11.7 |

Note: There were no domiciliary multiple births.

Table 4.16
Rubella: Immune Status of Mother
Numbers and Percentages, 2003

Multiple Births

| Rubella | Frequency | Per Cent (%) |
|--------------|--------------|--------------|
| Immune | 1,529 | 83.8 |
| Not Immune | 54 | 3.0 |
| Unknown | 242 | 13.3 |
| Total | 1,825 | 100.0 |

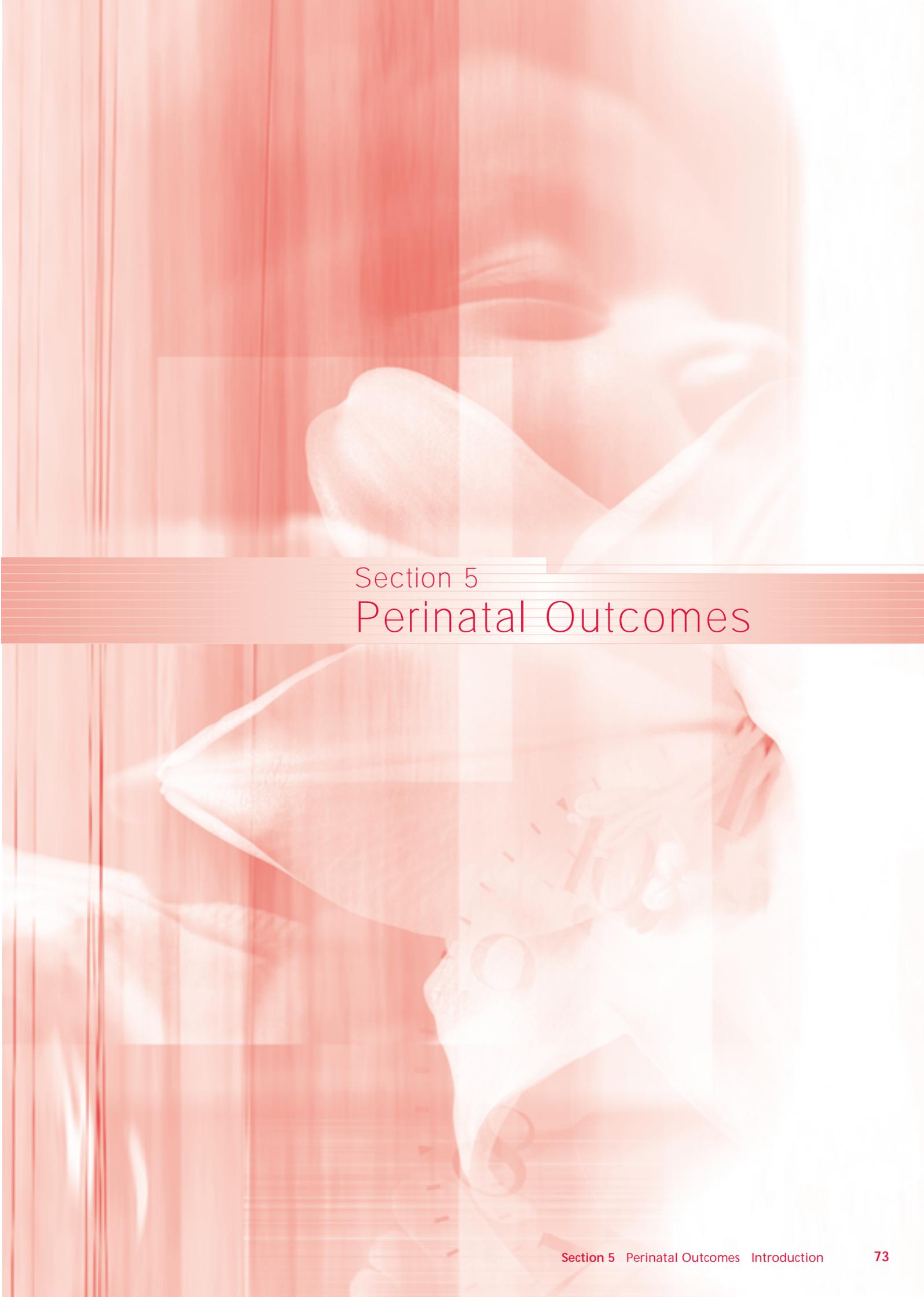
Table 4.17
Age of Mother by Infant's Type of Feeding
Numbers and Percentages, 2003

Multiple Births

| Age of Mother | Type of Feeding | | | | |
|--|------------------------------|----------------------------|---------------------------|--------------------------|-------------------------------|
| Frequency Row Per Cent Col. Per Cent | Artificial | Breast | Combined | Not Stated | Total |
| 15-19 Years | 30 69.77 2.69 | 12 27.91 2.44 | 0 0.00 0.00 | 1 2.33 5.88 | 43 2.40 |
| 20-24 Years | 96 62.34 8.61 | 45 29.22 9.16 | 7 4.55 4.07 | 6 3.90 35.29 | 154 8.58 |
| 25-29 Years | 249 65.53 22.33 | 86 22.63 17.52 | 44 11.58 25.58 | 1 0.26 5.88 | 380 21.17 |
| 30-34 Years | 402 65.69 36.05 | 148 24.18 30.14 | 56 9.15 32.56 | 6 0.98 35.29 | 612 34.09 |
| 35-39 Years | 306 56.56 27.44 | 175 32.35 35.64 | 57 10.54 33.14 | 3 0.55 17.65 | 541 30.14 |
| 40-44 Years | 31 53.45 2.78 | 21 36.21 4.28 | 6 10.34 3.49 | 0 0.00 0.00 | 58 3.23 |
| 45 Years and over | 1 16.67 0.09 | 3 50.00 0.61 | 2 33.33 1.16 | 0 0.00 0.00 | 6 0.33 |
| Not Stated | 0 0.00 0.00 | 1 100.00 0.20 | 0 0.00 0.00 | 0 0.00 0.00 | 1 0.06 |
| Total | 1,115 62.12 | 491 27.35 | 172 9.58 | 17 0.95 | 1,795 100.00 |

Note:

- See Appendix F for an explanation of the table format.
- 'Not Stated' contains 11 Early Neonatal Deaths for which Type of Feeding was not stated.



Section 5
Perinatal Outcomes

Section 5 Perinatal Outcomes

Introduction

This section presents a detailed review on aspects of perinatal outcomes for the infant. Part 1 reports on perinatal outcomes for singleton births and Part 2 on multiple births. Cause of death is examined in greater detail according to the guidelines set out by the World Health Organisation in the ninth revision of the International Classification of Diseases. The following tables outline data for live births, antepartum and intrapartum stillbirths and early neonatal deaths, together with their corresponding rates. Mortality numbers and rates are presented by birthweight and cause of death. Age at death for early neonatal deaths and post-mortem analysis are also outlined.

Section 5 Perinatal Outcomes

Part 1 Singleton Births

Section 5 Perinatal Outcomes

Part 1 Singleton Births

Table 5.1
Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths
and Mortality Rates by Birthweight, 2003

Singleton Births

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Ante-partum Stillbirths | Intra-partum Stillbirths | Not Stated | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|---------------|-----------------------------|----------------------------|-----------------------------|------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 500-749 | 63 | 0.1 | 28 | 4 | 8 | 388.3 | 32 | 507.9 | 699.0 | 666.7 |
| 750-999 | 74 | 0.1 | 21 | 0 | 8 | 281.6 | 14 | 189.2 | 417.5 | 310.3 |
| 1000-1249 | 100 | 0.2 | 17 | 3 | 7 | 212.6 | 13 | 130.0 | 315.0 | 201.8 |
| 1250-1499 | 123 | 0.2 | 17 | 1 | 5 | 157.5 | 11 | 89.4 | 232.9 | 170.4 |
| 1500-1999 | 488 | 0.8 | 30 | 6 | 8 | 82.7 | 25 | 51.2 | 129.7 | 75.8 |
| 2000-2499 | 1,467 | 2.5 | 28 | 2 | 4 | 22.7 | 17 | 11.6 | 34.0 | 21.6 |
| 2500-2999 | 6,476 | 10.8 | 35 | 6 | 10 | 7.8 | 19 | 2.9 | 10.7 | 8.0 |
| 3000-3499 | 19,838 | 33.2 | 31 | 2 | 7 | 2.0 | 11 | 0.6 | 2.6 | 2.1 |
| 3500-3999 | 20,830 | 34.8 | 15 | 2 | 3 | 1.0 | 6 | 0.3 | 1.2 | 0.9 |
| 4000-4499 | 8,634 | 14.4 | 11 | 1 | 1 | 1.5 | 3 | 0.3 | 1.9 | 1.6 |
| 4500 and over | 1,734 | 2.9 | 3 | 0 | 1 | 2.3 | 3 | 1.7 | 4.0 | 2.3 |
| Not Stated | 10 | 0.0 | 2 | 0 | 0 | 166.7 | 2 | 200.0 | 333.3 | 200.0 |
| Total | 59,837 | 100.0 | 238 | 27 | 62 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

Table 5.2
Stillbirths, Early Neonatal Deaths
and Mortality Rates by Cause of Death, 2003

Singleton Births

| ICD Codes | Cause of Death | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Total Deaths | Perinatal Mortality Rate |
|--------------|--|-------------|-----------------|-----------------------|---------------------|--------------|--------------------------|
| | Congenital Anomalies | | | | | | |
| 740 | Anencephalus | 14 | 0.23 | 9 | 0.15 | 23 | 0.38 |
| 741 | Spina Bifida | 0 | 0.00 | 1 | 0.02 | 1 | 0.02 |
| 742 | Other Central Nervous System Anomalies | 2 | 0.03 | 7 | 0.12 | 9 | 0.15 |
| 743 | Other Congenital Anomalies | 13 | 0.22 | 10 | 0.17 | 23 | 0.38 |
| 746 | Other Congenital Anomalies of the Heart | 7 | 0.12 | 11 | 0.18 | 18 | 0.30 |
| 748 | Congenital Anomalies of Respiratory System | 0 | 0.00 | 17 | 0.28 | 17 | 0.28 |
| 749.0-751.9 | Cleft Palate & Lip, Other Digestive Anomalies | 2 | 0.03 | 0 | 0.00 | 2 | 0.03 |
| 753 | Congenital Anomalies of Urinary System | 3 | 0.05 | 10 | 0.17 | 13 | 0.22 |
| 754.0-756.9 | Musculoskeletal System | 5 | 0.08 | 7 | 0.12 | 12 | 0.20 |
| 758 | Chromosomal Anomalies including Down's Syndrome | 9 | 0.15 | 20 | 0.33 | 29 | 0.48 |
| | Maternal Conditions and Complications in Pregnancy | | | | | | |
| 760 | Maternal Hypertensive Disorders | 11 | 0.18 | 0 | 0.00 | 11 | 0.18 |
| 760.1-761.9 | Other Maternal Complications | 14 | 0.23 | 1 | 0.02 | 15 | 0.25 |
| 762 | Placenta Praevia | 1 | 0.02 | 0 | 0.00 | 1 | 0.02 |
| 762.1 | Other Placental Separation and Haemorrhage | 48 | 0.80 | 2 | 0.03 | 50 | 0.83 |
| 762.2 | Other Morphological and Functional Anomalies of Placenta | 21 | 0.35 | 0 | 0.00 | 21 | 0.35 |
| 762.4 | Prolapsed Cord | 2 | 0.03 | 0 | 0.00 | 2 | 0.03 |
| 762.5 | Other Compression of Umbilical Cord | 16 | 0.27 | 0 | 0.00 | 16 | 0.27 |
| 762.6-762.9 | Other Complications of Placenta, Cord & Membrane | 7 | 0.12 | 0 | 0.00 | 7 | 0.12 |
| 763.2-763.9 | Other Complications of Labour/Delivery | 1 | 0.02 | 1 | 0.02 | 2 | 0.03 |
| | Slow Foetal Growth, Malnutrition & Immaturity | | | | | | |
| 764 | Slow Foetal Growth & Malnutrition | 8 | 0.13 | 1 | 0.02 | 9 | 0.15 |
| 765 | Short Gestation and Low Birthweight | 15 | 0.25 | 20 | 0.33 | 35 | 0.58 |
| | Birth Trauma | | | | | | |
| 767 | Birth Trauma | 0 | 0.00 | 1 | 0.02 | 1 | 0.02 |
| 768 | Intrauterine Hypoxia/Anoxia | 29 | 0.48 | 4 | 0.07 | 33 | 0.55 |
| 769 | Respiratory Distress Syndrome | 0 | 0.00 | 3 | 0.05 | 3 | 0.05 |
| 770 | Respiratory Conditions of Foetus/Newborn | 3 | 0.05 | 8 | 0.13 | 11 | 0.18 |
| | Other Foetal and Neonatal Conditions | | | | | | |
| 771 | Perinatal Infections | 6 | 0.10 | 5 | 0.08 | 11 | 0.18 |
| 772 | Neonatal/Foetal Haemorrhage | 3 | 0.05 | 5 | 0.08 | 8 | 0.13 |
| 775 | Metabolic and Endocrine Disorders | 1 | 0.02 | 2 | 0.03 | 3 | 0.05 |
| 778 | Integument and Temperature Regulation | 5 | 0.08 | 1 | 0.02 | 6 | 0.10 |
| | Maceration, ill-Defined Conditions & All other Causes | | | | | | |
| 779.9 | Maceration | 5 | 0.08 | 0 | 0.00 | 5 | 0.08 |
| 780-796,799 | Symptoms, Signs, and Ill-Defined Conditions | 74 | 1.23 | 5 | 0.08 | 79* | 1.31 |
| | All Other Causes | 2 | 0.03 | 5 | 0.08 | 7 | 0.12 |
| Total | | 327 | 5.44 | 156 | 2.61 | 483 | 8.03 |

* Note: The significant number in this category is due to the absence of information on Principal Diagnosis in relation to 42 births in three particular hospitals.

Table 5.3
Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2003

Singleton Births

| Birthweight (grams) | Anencephalus | | Spina Bifida | | Other Central Nervous System Abnormalities | | Congenital Anomalies of the Heart | | Chromosomal Anomalies | | Other Congenital Anomalies | |
|---------------------|--------------|------------|--------------|------------|--|------------|-----------------------------------|------------|-----------------------|------------|----------------------------|------------|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 500-749 | 1 | 9.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 5 | 48.5 | 4 | 38.8 |
| 750-999 | 3 | 29.1 | 1 | 9.7 | 0 | 0.0 | 1 | 9.7 | 4 | 38.8 | 7 | 68.0 |
| 1000-1249 | 5 | 39.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 15.7 | 11 | 86.6 |
| 1250-1499 | 1 | 6.8 | 0 | 0.0 | 2 | 13.7 | 0 | 0.0 | 3 | 20.5 | 5 | 34.2 |
| 1500-1999 | 5 | 9.4 | 0 | 0.0 | 1 | 1.9 | 5 | 9.4 | 8 | 15.0 | 12 | 22.6 |
| 2000-2499 | 3 | 2.0 | 0 | 0.0 | 1 | 0.7 | 1 | 0.7 | 4 | 2.7 | 10 | 6.7 |
| 2500-2999 | 3 | 0.5 | 0 | 0.0 | 3 | 0.5 | 3 | 0.5 | 2 | 0.3 | 7 | 1.1 |
| 3000-3499 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 5 | 0.3 | 0 | 0.0 | 4 | 0.2 |
| 3500-3999 | 1 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 0.1 | 1 | 0.0 | 3 | 0.1 |
| 4000-4499 | 0 | 0.0 | 0 | 0.0 | 1 | 0.1 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 |
| 4500 and over | 0 | 0.0 | 0 | 0.0 | 1 | 0.6 | 0 | 0.0 | 0 | 0.0 | 2 | 1.2 |
| Not Stated | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 166.7 |
| Total | 23 | 0.4 | 1 | 0.0 | 9 | 0.1 | 18 | 0.3 | 29 | 0.5 | 67 | 1.1 |

Table 5.3 Continued
Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2003

Singleton Births

| Birthweight (grams) | Maternal Complications | | Placenta, Cord, Membranes | | Other Complications of Labour | | Slow Foetal Growth | | Birth Trauma | | Hypoxia/Anoxia | |
|---------------------|------------------------|------------|---------------------------|------------|-------------------------------|------------|--------------------|------------|--------------|------------|----------------|------------|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 500-749 | 7 | 68.0 | 13 | 126.2 | 1 | 9.7 | 22 | 213.6 | 0 | 0.0 | 9 | 87.4 |
| 750-999 | 4 | 38.8 | 7 | 68.0 | 0 | 0.0 | 7 | 68.0 | 0 | 0.0 | 2 | 19.4 |
| 1000-1249 | 0 | 0.0 | 6 | 47.2 | 0 | 0.0 | 1 | 7.9 | 0 | 0.0 | 3 | 23.6 |
| 1250-1499 | 2 | 13.7 | 7 | 47.9 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 13.7 |
| 1500-1999 | 3 | 5.6 | 13 | 24.4 | 1 | 1.9 | 7 | 13.2 | 1 | 1.9 | 5 | 9.4 |
| 2000-2499 | 2 | 1.3 | 8 | 5.3 | 0 | 0.0 | 4 | 2.7 | 0 | 0.0 | 3 | 2.0 |
| 2500-2999 | 4 | 0.6 | 20 | 3.1 | 0 | 0.0 | 2 | 0.3 | 0 | 0.0 | 7 | 1.1 |
| 3000-3499 | 2 | 0.1 | 14 | 0.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 8 | 0.4 |
| 3500-3999 | 0 | 0.0 | 5 | 0.2 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 0.2 |
| 4000-4499 | 1 | 0.1 | 4 | 0.5 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 0.2 |
| 4500 and over | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 1.2 |
| Not Stated | 1 | 83.3 | 0 | 0.0 | 0 | 0.0 | 1 | 83.3 | 0 | 0.0 | 0 | 0.0 |
| Total | 26 | 0.4 | 97 | 1.6 | 2 | 0.0 | 44 | 0.7 | 1 | 0.0 | 47 | 0.8 |

Table 5.3 Continued

Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2003

Singleton Births

| Birthweight (grams) | Perinatal Infections | | Foetal/Neonatal Haemorrhage | | Haemolytic Disease | | Metabolic, Endocrine Disturbances | | Integument, Temperature Regulations | | Maceration | |
|---------------------|----------------------|------------|-----------------------------|------------|--------------------|------------|-----------------------------------|------------|-------------------------------------|------------|------------|------------|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 500-749 | 2 | 19.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 9.7 |
| 750-999 | 0 | 0.0 | 1 | 9.7 | 0 | 0.0 | 0 | 0.0 | 1 | 9.7 | 1 | 9.7 |
| 1000-1249 | 3 | 23.6 | 2 | 15.7 | 0 | 0.0 | 1 | 7.9 | 0 | 0.0 | 0 | 0.0 |
| 1250-1499 | 2 | 13.7 | 1 | 6.8 | 0 | 0.0 | 0 | 0.0 | 1 | 6.8 | 0 | 0.0 |
| 1500-1999 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 1.9 | 0 | 0.0 |
| 2000-2499 | 1 | 0.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2 | 1.3 | 1 | 0.7 |
| 2500-2999 | 1 | 0.2 | 1 | 0.2 | 0 | 0.0 | 2 | 0.3 | 1 | 0.2 | 0 | 0.0 |
| 3000-3499 | 0 | 0.0 | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| 3500-3999 | 2 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.0 |
| 4000-4499 | 0 | 0.0 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| 4500 and over | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1 | 0.6 |
| Not Stated | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| Total | 11 | 0.2 | 8 | 0.1 | 0 | 0.0 | 3 | 0.0 | 6 | 0.1 | 5 | 0.1 |

Table 5.3 Continued

Perinatal Mortality, Numbers and Rates, by Birthweight and Cause of Death, 2003

Singleton Births

| Birthweight (grams) | Symptoms, Signs and Ill-Defined Conditions | | All Other Causes | | Not Stated | | All Causes of Perinatal Mortality | |
|---------------------|--|------------|------------------|------------|------------|------------|-----------------------------------|------------|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 500-749 | 7 | 68.0 | 0 | 0.0 | 0 | 0.0 | 72 | 699.0 |
| 750-999 | 4 | 38.8 | 0 | 0.0 | 0 | 0.0 | 43 | 417.5 |
| 1000-1249 | 6 | 47.2 | 0 | 0.0 | 0 | 0.0 | 40 | 315.0 |
| 1250-1499 | 8 | 54.8 | 0 | 0.0 | 0 | 0.0 | 34 | 232.9 |
| 1500-1999 | 6 | 11.3 | 1 | 1.9 | 0 | 0.0 | 69 | 129.7 |
| 2000-2499 | 10 | 6.7 | 1 | 0.7 | 0 | 0.0 | 51 | 34.0 |
| 2500-2999 | 11 | 1.7 | 3 | 0.5 | 0 | 0.0 | 70 | 10.7 |
| 3000-3499 | 14 | 0.7 | 1 | 0.1 | 0 | 0.0 | 51 | 2.6 |
| 3500-3999 | 7 | 0.3 | 0 | 0.0 | 0 | 0.0 | 26 | 1.2 |
| 4000-4499 | 5 | 0.6 | 1 | 0.1 | 0 | 0.0 | 16 | 1.9 |
| 4500 and over | 1 | 0.6 | 0 | 0.0 | 0 | 0.0 | 7 | 4.0 |
| Not Stated | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 4 | 333.3 |
| Total | 79 | 1.3 | 7 | 0.1 | 0 | 0.0 | 483 | 8.0 |

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

Table 5.4
Age at Death
Early Neonatal Deaths, 2003

Singleton Births

| Time | | Frequency | Per Cent | |
|---------------------------|--------------------------|------------|--------------|-------------|
| Completed Hours | <1 | 35 | 22.4 | |
| | 1 | 19 | 12.2 | |
| | 2 | 9 | 5.8 | |
| | 3 | 12 | 7.7 | |
| | 4 | 3 | 1.9 | |
| | 5 | 3 | 1.9 | |
| | 6 | 2 | 1.3 | |
| | 7 | 5 | 3.2 | |
| | 8 | 1 | 0.6 | |
| | 9 | 1 | 0.6 | |
| | 10 | 1 | 0.6 | |
| | 11 | 3 | 1.9 | |
| | 12 | 1 | 0.6 | |
| | 13 | 1 | 0.6 | |
| | 16 | 1 | 0.6 | |
| | 19 | 2 | 1.3 | |
| | 20 | 3 | 1.9 | |
| | 21 | 1 | 0.6 | |
| | Total under 1 Day | | 103 | 66.0 |
| | Days | 1 | 15 | 9.6 |
| | | 2 | 13 | 8.3 |
| 3 | | 6 | 3.8 | |
| 4 | | 4 | 2.6 | |
| 5 | | 4 | 2.6 | |
| 6 | | 2 | 1.3 | |
| Total under 1 Week | | 44 | 28.2 | |
| Unknown | | 9 | 5.8 | |
| Total | | 156 | 100.0 | |

Table 5.5
Percentage Distribution of Live Births
by Infant's Length of Stay in Hospital, 2003

Singleton Births

| Infant's Length of Stay (Days) | Live Births | Per Cent (%) Live Births |
|--------------------------------|---------------|--------------------------|
| 0-2 | 22,872 | 38.5 |
| 3-5 | 31,504 | 53.0 |
| 6-10 | 3,659 | 6.2 |
| 11-28 | 932 | 1.6 |
| 29 or more | 378 | 0.6 |
| Not Stated | 100 | 0.2 |
| Total | 59,445 | 100.0 |

Note:

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

-'Not Stated' includes 36 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother and infant were not admitted under a planned community midwife scheme therefore infant's length of stay was not applicable.

Table 5.6
Percentage of Stillbirths and Early Neonatal Deaths
Undergoing Post-Mortem Examinations, 2003

Singleton Births

| Post-Mortem | Type of Death | | |
|--|-----------------------|--------------|---------------|
| Frequency Row Per Cent Col. Per Cent | Early Neonatal Deaths | Stillbirths | Total |
| Post-Mortem | 62 | 156 | 218 |
| | 28.44 | 71.56 | |
| | 39.74 | 47.71 | 45.13 |
| No Post-Mortem | 81 | 166 | 247 |
| | 32.79 | 67.21 | |
| | 51.92 | 50.76 | 51.14 |
| Not Stated | 13 | 5 | 18 |
| | 72.22 | 27.78 | |
| | 8.33 | 1.53 | 3.73 |
| Total | 156 | 327 | 483 |
| | 32.30 | 67.70 | 100.00 |

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

Section 5 Perinatal Outcomes

Part 2 Multiple Births

Section 5 Perinatal Outcomes

Part 2 Multiple Births

Table 5.7
Live Births, Antepartum and Intrapartum Stillbirths, Early Neonatal Deaths
and Mortality Rates by Birthweight, 2003

Multiple Births

| Birthweight (grams) | Live Births | Per Cent (%) Live Births | Ante-partum Stillbirths | Intra-partum Stillbirths | Not Stated | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|---------------------|--------------|-----------------------------|----------------------------|-----------------------------|------------|--------------------|-----------------------------|---------------------------|--------------------------------|-----------------|
| 500-749 | 22 | 1.2 | 3 | 2 | 4 | 290.3 | 15 | 681.8 | 774.2 | 758.6 |
| 750-999 | 24 | 1.3 | 3 | 0 | 3 | 200.0 | 4 | 166.7 | 333.3 | 333.3 |
| 1000-1249 | 30 | 1.7 | 3 | 0 | 1 | 117.6 | 0 | 0.0 | 117.6 | 117.6 |
| 1250-1499 | 53 | 3.0 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 1500-1999 | 215 | 12.0 | 0 | 1 | 1 | 9.2 | 1 | 4.7 | 13.8 | 9.3 |
| 2000-2499 | 465 | 25.9 | 2 | 1 | 0 | 6.4 | 1 | 2.2 | 8.5 | 8.5 |
| 2500-2999 | 607 | 33.8 | 3 | 0 | 0 | 4.9 | 0 | 0.0 | 4.9 | 4.9 |
| 3000-3499 | 335 | 18.7 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 3500-3999 | 43 | 2.4 | 1 | 0 | 0 | 22.7 | 0 | 0.0 | 22.7 | 22.7 |
| 4000-4499 | 1 | 0.1 | 0 | 0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| Not Stated | 0 | 0.0 | 2 | 0 | 0 | 1000.0 | 0 | 0.0 | 1000.0 | 1000.0 |
| Total | 1,795 | 100.0 | 17 | 4 | 9 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table 5.8
Stillbirths, Early Neonatal Deaths and Mortality Rates by Cause of Death, 2003

Multiple Births

| Cause of Death | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Total Deaths | Perinatal Mortality Rate |
|--|-------------|-----------------|-----------------------|---------------------|--------------|--------------------------|
| Other Central Nervous System Anomalies | 0 | 0.0 | 1 | 0.6 | 1 | 0.6 |
| Other Congenital Anomalies | 0 | 0.0 | 1 | 0.6 | 1 | 0.6 |
| Congenital Anomalies of Respiratory System | 0 | 0.0 | 1 | 0.6 | 1 | 0.6 |
| Other Maternal Complications | 1 | 0.6 | 0 | 0.0 | 1 | 0.6 |
| Other Placental Separation and Haemorrhage | 6 | 3.3 | 3 | 1.7 | 9 | 4.9 |
| Other Morphological and Functional Anomalies of Placenta | 2 | 1.1 | 0 | 0.0 | 2 | 1.1 |
| Other Complications of Placenta, Cord & Membrane | 8 | 4.4 | 0 | 0.0 | 8 | 4.4 |
| Other Complications of Labour/Delivery | 0 | 0.0 | 2 | 1.1 | 2 | 1.1 |
| Short Gestation and Low Birthweight | 8 | 4.4 | 5 | 2.8 | 13 | 7.1 |
| Birth Trauma | 0 | 0.0 | 1 | 0.6 | 1 | 0.6 |
| Intrauterine Hypoxia/Anoxia | 1 | 0.6 | 0 | 0.0 | 1 | 0.6 |
| Respiratory Distress Syndrome | 0 | 0.0 | 5 | 2.8 | 5 | 2.7 |
| Respiratory Conditions of Foetus/Newborn | 0 | 0.0 | 2 | 1.1 | 2 | 1.1 |
| Neonatal/Foetal Haemorrhage | 1 | 0.6 | 0 | 0.0 | 1 | 0.6 |
| Symptoms, Signs, and Ill-Defined Conditions | 3 | 1.6 | 0 | 0.0 | 3 | 1.6 |
| Total | 30 | 16.4 | 21 | 11.7 | 51 | 27.9 |

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

Table 5.9
Number of Perinatal Deaths by Birthweight and Cause of Death, 2003

Multiple Births

| Birthweight (grams) | 500-749 | 750-999 | 1000-1249 | 1500-1999 | 2000-2499 | 2500-2999 | 3500-3999 | Not stated | Total |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| Other Central Nervous System Anomalies | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Other Congenital Anomalies | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| Maternal Complications | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Other Complications of Placenta, Cord & Membrane | 7 | 4 | 2 | 1 | 2 | 2 | 1 | 0 | 19 |
| Other Complications of Labour/Delivery | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Slow Foetal Growth | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 13 |
| Birth Trauma | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Hypoxia/Anoxia | 4 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| Neonatal/Foetal Haemorrhage | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Symptoms, Signs, and Ill-Defined Conditions | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Total | 24 | 10 | 4 | 3 | 4 | 3 | 1 | 2 | 51 |

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

Table 5.10
Age at Death
Early Neonatal Deaths, 2003

Multiple Births

| Time | | Frequency | Per Cent |
|---------------------------|----|-----------|--------------|
| Completed Hours | <1 | 1 | 4.8 |
| | 1 | 3 | 14.3 |
| | 2 | 3 | 14.3 |
| | 3 | 1 | 4.8 |
| | 4 | 2 | 9.5 |
| | 5 | 1 | 4.8 |
| | 6 | 1 | 4.8 |
| | 9 | 1 | 4.8 |
| Total under 1 Day | | 13 | 61.9 |
| Days | 1 | 1 | 4.8 |
| | 2 | 4 | 19.0 |
| | 4 | 1 | 4.8 |
| | 5 | 1 | 4.8 |
| Total under 1 Week | | 7 | 33.3 |
| Unknown | | 1 | 4.8 |
| Total | | 21 | 100.0 |

Table 5.11
Percentage Distribution of Live Births by Infant's Length of Stay in Hospital, 2003

Multiple Births

| Length of Stay (Days) | Live Births | Per Cent (%) Live Births |
|-----------------------|--------------|--------------------------|
| 0-2 | 100 | 5.6 |
| 3-5 | 801 | 45.2 |
| 6-10 | 437 | 24.6 |
| 11-28 | 296 | 16.7 |
| 29 or more | 125 | 7.0 |
| Not Stated | 15 | 0.8 |
| Total | 1,774 | 100.0 |

Note:

- There were no domiciliary multiple births.
- Early Neonatal Deaths are not included in this table.

Table 5.12
Percentage of Stillbirths and Early Neonatal Deaths Undergoing Post-Mortem Examinations, 2003

Multiple Births

| Post-mortem | Type of Death | | |
|----------------|-----------------------|--------------|---------------|
| | Early Neonatal Deaths | Stillbirths | Total |
| Frequency | | | |
| Row Per Cent | | | |
| Col. Per Cent | | | |
| Post-Mortem | 6 | 13 | 19 |
| | 31.58 | 68.42 | |
| | 28.57 | 43.33 | 37.25 |
| No Post-Mortem | 14 | 17 | 31 |
| | 45.16 | 54.84 | |
| | 66.67 | 56.67 | 60.78 |
| Not Stated | 1 | 0 | 1 |
| | 100.00 | 0.00 | |
| | 4.76 | 0.00 | 1.96 |
| Total | 21 | 30 | 51 |
| | 41.18 | 58.82 | 100.00 |

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



Appendices

Appendix A

DEFINITIONS

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

OUTCOMES AND RATES

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

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

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

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

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

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

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

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

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

Congenital Anomalies are physiological or structural abnormalities that develop at or before birth and are present at the time of birth.⁴

Twinning Rate: This is given by

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

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

Note: In this report, where rates are based on very small numbers, they should be interpreted with caution and should not be used as estimates of the true population rates.

⁴ Congenital anomalies are those diseases/conditions categorised in ICD-9, Chapter XIV, codes 740.0- 759.9.

OTHER ITEMS

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

General Characteristics

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

Domiciliary birth: Domiciliary births are *planned* home births. The vast majority of these are attended by an independent midwife and are not associated with a hospital. In 2003 there were 37 births under hospital administered home birth schemes. For the purposes of this report these births are treated as hospital births due to the small numbers.

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

Marital status: Five categories are recognised as specified below:

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

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

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

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

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

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

Perinatal care

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

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

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

Method of delivery: Six categories are used:

- i. Spontaneous cephalic delivery, without any of the following:
- ii. Breech delivery, spontaneous, with or without forceps to after-coming head, breech extraction.
- iii. Forceps delivery.
- iv. Vacuum extraction.⁵
- v. Caesarean section.
- vi. Other specified and Combined (e.g combination of spontaneous delivery followed by a vacuum extraction or caesarean section).

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

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

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

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

Size of Maternity Unit: Size in this context refers to the number of perinatal events occurring during the year.

⁵ Also known as Ventouse Deliveries (Source: Jane Henderson, Leslie L. Davidson, Jean Chapple, Jo Garcia, Stavros Petrou, "Pregnancy and Childbirth", Health Care Needs Assessment, <http://hcna.radcliffe-oxford.com/pregframe.htm>, date consulted 21st November 2006.)

Perinatal Outcomes

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

Cause of Death: This categorisation indicates the principal underlying pathological cause, which in the opinion of the certifier made the greatest contribution to the death of the infant or foetus. In assigning cause of death, the guidelines recommended by the World Health Organisation have been followed. A summary of these guidelines, together with a list of the International Classification of Disease codes grouped into each category, is provided in Appendix D.

Age at Death: The age of early neonatal deaths is given in completed hours if the infant survived less than 1 day and in completed days otherwise.

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

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

Note:

- All perinatal statistics and definitions are based on WHO ICD-9 Classifications.
- Where a particular value of a variable does not occur in a table, the row corresponding to that value is not included. This arises most frequently in relation to multiple births. For example, in Table 3.15 the values for 'under 15' are not included as there are no occurrences of these multiple births for mother's age 'under 15'.

The following format outlines the new form introduced in May 2003 and effective from January 1st 2004.

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

TYPE OF BIRTH: 1 (Stillborn) 2 (Spontaneous) 3 (Elective)

HOSPITAL NO: _____ COUNTY: _____

INFANT'S DETAILS

DATE OF BIRTH (DDMMYYYY): _____ TIME OF BIRTH: _____

SEX: Male Female

WEIGHT (kg): _____ HEIGHT (cm): _____

APGAR 1: _____ APGAR 5: _____

RESPIRATORY DISTRESS: Yes No

FATHER'S DETAILS

NAME: _____ COUNTY: _____

COUNTRY: _____ NATIONALITY: _____

DATE OF BIRTH (DDMMYYYY): _____

MOTHER'S DETAILS

NAME: _____ COUNTY: _____

COUNTRY: _____ NATIONALITY: _____

DATE OF BIRTH (DDMMYYYY): _____

WAS SHE REGISTERED AS A DOCTOR? Yes No

WAS SHE REGISTERED AS A MIDWIFE? Yes No

WAS SHE REGISTERED AS A NURSE? Yes No

WAS SHE REGISTERED AS A HEALTH CARE PROFESSIONAL? Yes No

DELIVERY

DATE OF DELIVERY (DDMMYYYY): _____ TIME OF DELIVERY: _____

METHOD OF DELIVERY: Spontaneous Elective Caesarean Forceps Vacuum Other

WAS THERE A DELAY OR COMPLICATION AFFECTING PREGNANCY OR PARTURITION? _____

OTHER MATERNAL DISEASES OR CONDITIONS AFFECTING PREGNANCY OR PARTURITION: _____

HOSPITAL

WAS ADMITSKN BOOSED? Yes No

DATE OF MOTHER'S ADMISSION (DDMMYYYY): _____

DATE OF MOTHER'S DISCHARGE (DDMMYYYY): _____

WAS THE INFANT ADMITSKN TO OTHER HOSPITAL FOR POSTNATAL TREATMENT? Yes No

IF YES, NAME OF HOSPITAL: _____

GENERAL HEALTH/DISEASES ATTENDED BY MOTHER

PERINATAL DEATH

WAS THE INFANT DEAD AT BIRTH? Yes No

WAS THE INFANT DEAD AT DELIVERY? Yes No

WAS THE INFANT DEAD AT DISCHARGE? Yes No

WAS THE INFANT DEAD AT OTHER HOSPITAL? Yes No

CAUSE OF DEATH: _____

WAS THERE A DELAY OR COMPLICATION AFFECTING PREGNANCY OR PARTURITION? _____

Signature: _____ Date: _____

RNTRG2003

Appendix C

Classification of Occupation

Occupations have been coded and classified into a set of socio-economic groups according to a system devised by the Central Statistics Office (CSO). The final CSO Category of 'Unknown' has been differentiated into 5 distinct groups for the purposes of the Perinatal Reporting System. These are 'Unemployed', 'Not Classifiable', 'Not Applicable', 'Home Duties' and 'Not Stated'. Occupation is coded as unemployed when occupation is given as unemployed and where no previous occupation is stated. If a previous occupation is stated then occupation is coded to the relevant category. 'Not Classifiable' has been used to categorise indecipherable, unclear, or unlisted occupations where efforts to clarify the information have failed. 'Home Duties' is entered where occupation has been entered as 'full-time mother/father/parent', 'stay at home mother/father/parent', 'housewife', 'home duties' etc. 'Not Stated' applies to those cases where either the mother's or father's occupation has been left blank or has been recorded as 'unknown'.

Under Father's occupation, the following applies:

'Not Applicable' is entered when the marital status of the mother has been given as single, widowed, separated or divorced and where father's occupation has been left blank. 'Not Stated' applies to those cases where the marital status of the mother is recorded as either married or not stated and where father's occupation has been left blank or has been recorded as 'unknown'. In either case, if an occupation is given for the father then the appropriate occupational code has been used.

The full list of socio-economic groups used in this report is given below:

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

Appendix D

Cause of Death Classification

The main cause of death has been determined according to the guidelines set out by the World Health Organisation in the ninth revision of the International Classification of Diseases (ICD).⁶ Briefly, the principal coding criteria are as follows:

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

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

⁶ World Health Organisation. 1978. *Manual of the International Classification of Diseases, Injuries and Causes of Death*, 9th Revision. Vol. 1. Geneva: WHO.

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

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

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

Appendix E

Classification of County of Residence

The following codes are applied to mother's and father's county of residence. Where a Dublin postal code, such as Dublin 13, is entered then a code of 10 is applied for Dublin City. Where there is no postal code and Dublin is recorded then a code of 11 is applied for Dublin County. Where county of residence is recorded as Tipperary and North or South Riding is not specified, then the assignment of the code is based on the Health Board in which the birth occurred. For births occurring in the South-Eastern or Southern Health Boards where Tipperary is recorded as county of residence then a code of 62, Tipperary South Riding is applied. For births occurring in other Health Boards where Tipperary is recorded as county of residence then a code of 32, Tipperary North Riding is applied. Where a mother's or father's county of residence is unknown the code 99 is applied. The code 90 is applied where the address given is outside the Republic of Ireland.

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

Appendix F

Cross-Tabulations of Selected Variables: 2003

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

Table F1
Age of Mother by Maternal Parity, Live Births and Stillbirths, 2003

Singleton Births

| Age of Mother | Maternal Parity | | | | | | | | | |
|-------------------|-----------------|---------------|---------------|--------------|--------------|-------------|-------------|-------------|-------------|---------------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | More than 6 | Not Stated | Total |
| Under 15 Years | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| 15-19 Years | 2,525 | 262 | 31 | 3 | 0 | 0 | 0 | 1 | 0 | 2,822 |
| | 89.48 | 9.28 | 1.10 | 0.11 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | |
| | 10.32 | 1.37 | 0.30 | 0.08 | 0.00 | 0.00 | 0.00 | 0.53 | 0.00 | 4.69 |
| 20-24 Years | 5,119 | 2,418 | 642 | 153 | 23 | 3 | 0 | 2 | 1 | 8,361 |
| | 61.22 | 28.92 | 7.68 | 1.83 | 0.28 | 0.04 | 0.00 | 0.02 | 0.01 | |
| | 20.93 | 12.64 | 6.31 | 3.87 | 1.56 | 0.55 | 0.00 | 1.07 | 20.00 | 13.90 |
| 25-29 Years | 6,729 | 4,875 | 1,840 | 650 | 219 | 75 | 31 | 7 | 1 | 14,427 |
| | 46.64 | 33.79 | 12.75 | 4.51 | 1.52 | 0.52 | 0.21 | 0.05 | 0.01 | |
| | 27.51 | 25.48 | 18.09 | 16.43 | 14.85 | 13.74 | 12.97 | 3.74 | 20.00 | 23.98 |
| 30-34 Years | 7,239 | 7,395 | 3,895 | 1,289 | 468 | 163 | 58 | 47 | 1 | 20,555 |
| | 35.22 | 35.98 | 18.95 | 6.27 | 2.28 | 0.79 | 0.28 | 0.23 | 0.00 | |
| | 29.60 | 38.66 | 38.30 | 32.58 | 31.73 | 29.85 | 24.27 | 25.13 | 20.00 | 34.16 |
| 35-39 Years | 2,403 | 3,597 | 3,225 | 1,496 | 557 | 215 | 107 | 65 | 2 | 11,667 |
| | 20.60 | 30.83 | 27.64 | 12.82 | 4.77 | 1.84 | 0.92 | 0.56 | 0.02 | |
| | 9.83 | 18.80 | 31.71 | 37.81 | 37.76 | 39.38 | 44.77 | 34.76 | 40.00 | 19.39 |
| 40-44 Years | 393 | 546 | 519 | 357 | 195 | 88 | 36 | 57 | 0 | 2,191 |
| | 17.94 | 24.92 | 23.69 | 16.29 | 8.90 | 4.02 | 1.64 | 2.60 | 0.00 | |
| | 1.61 | 2.85 | 5.10 | 9.02 | 13.22 | 16.12 | 15.06 | 30.48 | 0.00 | 3.64 |
| 45 Years and over | 7 | 15 | 12 | 8 | 9 | 2 | 6 | 7 | 0 | 66 |
| | 10.61 | 22.73 | 18.18 | 12.12 | 13.64 | 3.03 | 9.09 | 10.61 | 0.00 | |
| | 0.03 | 0.08 | 0.12 | 0.20 | 0.61 | 0.37 | 2.51 | 3.74 | 0.00 | 0.11 |
| Not Stated | 26 | 22 | 5 | 1 | 4 | 0 | 1 | 1 | 0 | 60 |
| | 43.33 | 36.67 | 8.33 | 1.67 | 6.67 | 0.00 | 1.67 | 1.67 | 0.00 | |
| | 0.11 | 0.12 | 0.05 | 0.03 | 0.27 | 0.00 | 0.42 | 0.53 | 0.00 | 0.10 |
| Total | 24,456 | 19,130 | 10,169 | 3,957 | 1,475 | 546 | 239 | 187 | 5 | 60,164 |
| | 40.65 | 31.80 | 16.90 | 6.58 | 2.45 | 0.91 | 0.40 | 0.31 | 0.01 | 100.00 |

Table F2
Method of Delivery by Maternal Parity, Live Births and Stillbirths, 2003

Singleton Births

| Method of Delivery | Maternal Parity | | | | | | | | | Total |
|--|-----------------|--------|--------|-------|-------|-------|-------|-------------|------------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | More than 6 | Not Stated | |
| Frequency Row Per Cent Col. Per Cent | | | | | | | | | | |
| Spontaneous | 11,800 | 13,269 | 7,481 | 3,016 | 1,153 | 426 | 184 | 143 | 3 | 37,475 |
| | 31.49 | 35.41 | 19.96 | 8.05 | 3.08 | 1.14 | 0.49 | 0.38 | 0.01 | |
| | 48.25 | 69.36 | 73.57 | 76.22 | 78.17 | 78.02 | 76.99 | 76.47 | 60.00 | 62.29 |
| Breech/Forceps | 149 | 58 | 25 | 15 | 8 | 1 | 1 | 1 | 0 | 258 |
| | 57.75 | 22.48 | 9.69 | 5.81 | 3.10 | 0.39 | 0.39 | 0.39 | 0.00 | |
| | 0.61 | 0.30 | 0.25 | 0.38 | 0.54 | 0.18 | 0.42 | 0.53 | 0.00 | 0.43 |
| Forceps | 1,393 | 238 | 85 | 14 | 3 | 3 | 1 | 0 | 0 | 1,737 |
| | 80.20 | 13.70 | 4.89 | 0.81 | 0.17 | 0.17 | 0.06 | 0.00 | 0.00 | |
| | 5.70 | 1.24 | 0.84 | 0.35 | 0.20 | 0.55 | 0.42 | 0.00 | 0.00 | 2.89 |
| Vacuum Extraction | 4,767 | 1,313 | 396 | 119 | 33 | 17 | 7 | 10 | 0 | 6,662 |
| | 71.56 | 19.71 | 5.94 | 1.79 | 0.50 | 0.26 | 0.11 | 0.15 | 0.00 | |
| | 19.49 | 6.86 | 3.89 | 3.01 | 2.24 | 3.11 | 2.93 | 5.35 | 0.00 | 11.07 |
| Caesarean | 6,290 | 4,208 | 2,158 | 782 | 272 | 98 | 46 | 33 | 1 | 13,888 |
| | 45.29 | 30.30 | 15.54 | 5.63 | 1.96 | 0.71 | 0.33 | 0.24 | 0.01 | |
| | 25.72 | 22.00 | 21.22 | 19.76 | 18.44 | 17.95 | 19.25 | 17.65 | 20.00 | 23.08 |
| Other specified & Combined | 53 | 41 | 24 | 10 | 6 | 1 | 0 | 0 | 0 | 135 |
| | 39.26 | 30.37 | 17.78 | 7.41 | 4.44 | 0.74 | 0.00 | 0.00 | 0.00 | |
| | 0.22 | 0.21 | 0.24 | 0.25 | 0.41 | 0.18 | 0.00 | 0.00 | 0.00 | 0.22 |
| Not Stated | 4 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 9 |
| | 44.44 | 33.33 | 0.00 | 11.11 | 0.00 | 0.00 | 0.00 | 0.00 | 11.11 | |
| | 0.02 | 0.02 | 0.00 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.01 |
| Total | 24,456 | 19,130 | 10,169 | 3,957 | 1,475 | 546 | 239 | 187 | 5 | 60,164 |
| | 40.65 | 31.80 | 16.90 | 6.58 | 2.45 | 0.91 | 0.40 | 0.31 | 0.01 | 100.00 |

Table F3
Marital Status by Age of Mother, Live Births and Stillbirths, 2003

Singleton Births

| Marital Status | Age of Mother (Years) | | | | | | | | | |
|----------------|-----------------------|-------|-------|--------|--------|--------|-------|-------------|------------|--------|
| | Under 15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Not Stated | Total |
| Married | 0 | 219 | 2,150 | 9,355 | 17,231 | 10,108 | 1,832 | 56 | 38 | 40,989 |
| | 0.00 | 0.53 | 5.25 | 22.82 | 42.04 | 24.66 | 4.47 | 0.14 | 0.09 | |
| | 0.00 | 7.76 | 25.71 | 64.84 | 83.83 | 86.64 | 83.61 | 84.85 | 63.33 | 68.13 |
| Single | 15 | 2,599 | 6,173 | 4,945 | 3,041 | 1,197 | 244 | 5 | 20 | 18,239 |
| | 0.08 | 14.25 | 33.85 | 27.11 | 16.67 | 6.56 | 1.34 | 0.03 | 0.11 | |
| | 100.00 | 92.10 | 73.83 | 34.28 | 14.79 | 10.26 | 11.14 | 7.58 | 33.33 | 30.32 |
| Widowed | 0 | 0 | 2 | 11 | 18 | 22 | 5 | 2 | 1 | 61 |
| | 0.00 | 0.00 | 3.28 | 18.03 | 29.51 | 36.07 | 8.20 | 3.28 | 1.64 | |
| | 0.00 | 0.00 | 0.02 | 0.08 | 0.09 | 0.19 | 0.23 | 3.03 | 1.67 | 0.10 |
| Separated | 0 | 4 | 32 | 99 | 210 | 250 | 73 | 3 | 0 | 671 |
| | 0.00 | 0.60 | 4.77 | 14.75 | 31.30 | 37.26 | 10.88 | 0.45 | 0.00 | |
| | 0.00 | 0.14 | 0.38 | 0.69 | 1.02 | 2.14 | 3.33 | 4.55 | 0.00 | 1.12 |
| Divorced | 0 | 0 | 3 | 15 | 54 | 89 | 37 | 0 | 0 | 198 |
| | 0.00 | 0.00 | 1.52 | 7.58 | 27.27 | 44.95 | 18.69 | 0.00 | 0.00 | |
| | 0.00 | 0.00 | 0.04 | 0.10 | 0.26 | 0.76 | 1.69 | 0.00 | 0.00 | 0.33 |
| Not Stated | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 6 |
| | 0.00 | 0.00 | 16.67 | 33.33 | 16.67 | 16.67 | 0.00 | 0.00 | 16.67 | |
| | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 1.67 | 0.01 |
| Total | 15 | 2,822 | 8,361 | 14,427 | 20,555 | 11,667 | 2,191 | 66 | 60 | 60,164 |
| | 0.02 | 4.69 | 13.90 | 23.98 | 34.16 | 19.39 | 3.64 | 0.11 | 0.10 | 100.00 |

Table F4
Marital Status by Age of Father, Live Births and Stillbirths, 2003

Singleton Births

| Marital Status | Age of Father (Years) | | | | | | | | |
|----------------|-----------------------|-------|-------|--------|--------|-------|-------------|------------|--------|
| | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Not Stated | Total |
| Married | 61 | 689 | 4,576 | 13,464 | 10,758 | 3,815 | 1,017 | 6,609 | 40,989 |
| | 0.15 | 1.68 | 11.16 | 32.85 | 26.25 | 9.31 | 2.48 | 16.12 | |
| | 35.47 | 52.36 | 84.54 | 95.08 | 96.35 | 96.05 | 91.29 | 28.92 | 68.13 |
| Single | 111 | 616 | 798 | 631 | 355 | 133 | 80 | 15,515 | 18,239 |
| | 0.61 | 3.38 | 4.38 | 3.46 | 1.95 | 0.73 | 0.44 | 85.06 | |
| | 64.53 | 46.81 | 14.74 | 4.46 | 3.18 | 3.35 | 7.18 | 67.90 | 30.32 |
| Widowed | 0 | 0 | 3 | 6 | 3 | 2 | 2 | 45 | 61 |
| | 0.00 | 0.00 | 4.92 | 9.84 | 4.92 | 3.28 | 3.28 | 73.77 | |
| | 0.00 | 0.00 | 0.06 | 0.04 | 0.03 | 0.05 | 0.18 | 0.20 | 0.10 |
| Separated | 0 | 5 | 28 | 46 | 30 | 15 | 11 | 536 | 671 |
| | 0.00 | 0.75 | 4.17 | 6.86 | 4.47 | 2.24 | 1.64 | 79.88 | |
| | 0.00 | 0.38 | 0.52 | 0.32 | 0.27 | 0.38 | 0.99 | 2.35 | 1.12 |
| Divorced | 0 | 5 | 8 | 13 | 19 | 7 | 4 | 142 | 198 |
| | 0.00 | 2.53 | 4.04 | 6.57 | 9.60 | 3.54 | 2.02 | 71.72 | |
| | 0.00 | 0.38 | 0.15 | 0.09 | 0.17 | 0.18 | 0.36 | 0.62 | 0.33 |
| Not Stated | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 6 |
| | 0.00 | 16.67 | 0.00 | 0.00 | 16.67 | 0.00 | 0.00 | 66.67 | |
| | 0.00 | 0.08 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.02 | 0.01 |
| Total | 172 | 1,316 | 5,413 | 14,160 | 11,166 | 3,972 | 1,114 | 22,851 | 60,164 |
| | 0.29 | 2.19 | 9.00 | 23.54 | 18.56 | 6.60 | 1.85 | 37.98 | 100.00 |

Table F5
Gestation Period at Delivery by Maternal Parity, Live Births and Stillbirths, 2003

Singleton Births

| Gestation Period (weeks) | Maternal Parity | | | | | | | | | |
|--------------------------|-----------------|--------|--------|-------|-------|-------|-------|-------------|------------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | More than 6 | Not Stated | Total |
| Less than 22 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 22-27 | 100 | 37 | 19 | 15 | 8 | 1 | 1 | 2 | 0 | 183 |
| | 54.64 | 20.22 | 10.38 | 8.20 | 4.37 | 0.55 | 0.55 | 1.09 | 0.00 | |
| | 0.41 | 0.19 | 0.19 | 0.38 | 0.54 | 0.18 | 0.42 | 1.07 | 0.00 | 0.30 |
| 28-31 | 200 | 58 | 26 | 29 | 10 | 0 | 3 | 3 | 0 | 329 |
| | 60.79 | 17.63 | 7.90 | 8.81 | 3.04 | 0.00 | 0.91 | 0.91 | 0.00 | |
| | 0.82 | 0.30 | 0.26 | 0.73 | 0.68 | 0.00 | 1.26 | 1.60 | 0.00 | 0.55 |
| 32-36 | 1,033 | 614 | 321 | 157 | 69 | 25 | 14 | 10 | 1 | 2,244 |
| | 46.03 | 27.36 | 14.30 | 7.00 | 3.07 | 1.11 | 0.62 | 0.45 | 0.04 | |
| | 4.22 | 3.21 | 3.16 | 3.97 | 4.68 | 4.58 | 5.86 | 5.35 | 20.00 | 3.73 |
| 37-41 | 21,473 | 17,599 | 9,426 | 3,565 | 1,333 | 490 | 207 | 163 | 4 | 54,260 |
| | 39.57 | 32.43 | 17.37 | 6.57 | 2.46 | 0.90 | 0.38 | 0.30 | 0.01 | |
| | 87.80 | 92.00 | 92.69 | 90.09 | 90.37 | 89.74 | 86.61 | 87.17 | 80.00 | 90.19 |
| 42 and over | 1,641 | 820 | 372 | 191 | 55 | 30 | 13 | 9 | 0 | 3,131 |
| | 52.41 | 26.19 | 11.88 | 6.10 | 1.76 | 0.96 | 0.42 | 0.29 | 0.00 | |
| | 6.71 | 4.29 | 3.66 | 4.83 | 3.73 | 5.49 | 5.44 | 4.81 | 0.00 | 5.20 |
| Not Stated | 6 | 2 | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 14 |
| | 42.86 | 14.29 | 35.71 | 0.00 | 0.00 | 0.00 | 7.14 | 0.00 | 0.00 | |
| | 0.02 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.42 | 0.00 | 0.00 | 0.02 |
| Total | 24,456 | 19,130 | 10,169 | 3,957 | 1,475 | 546 | 239 | 187 | 5 | 60,164 |
| | 40.65 | 31.80 | 16.90 | 6.58 | 2.45 | 0.91 | 0.40 | 0.31 | 0.01 | 100.00 |

Table F6
Age of Mother by Gestation Period at Delivery, Live Births and Stillbirths, 2003

Singleton Births

| Age of Mother | Gestation Period (weeks) | | | | | | | Total |
|-------------------|--------------------------|-------------|-------------|--------------|---------------|--------------|-------------|---------------|
| | Less than 22 | 22-27 | 28-31 | 32-36 | 37-41 | 42 and over | Not Stated | |
| Under 15 Years | 0 | 0 | 1 | 3 | 10 | 1 | 0 | 15 |
| | 0.00 | 0.00 | 6.67 | 20.00 | 66.67 | 6.67 | 0.00 | |
| | 0.00 | 0.00 | 0.30 | 0.13 | 0.02 | 0.03 | 0.00 | 0.02 |
| 15-19 Years | 0 | 23 | 25 | 147 | 2,472 | 152 | 3 | 2,822 |
| | 0.00 | 0.82 | 0.89 | 5.21 | 87.60 | 5.39 | 0.11 | |
| | 0.00 | 12.57 | 7.60 | 6.55 | 4.56 | 4.85 | 21.43 | 4.69 |
| 20-24 Years | 1 | 34 | 63 | 340 | 7,375 | 546 | 2 | 8,361 |
| | 0.01 | 0.41 | 0.75 | 4.07 | 88.21 | 6.53 | 0.02 | |
| | 33.33 | 18.58 | 19.15 | 15.15 | 13.59 | 17.44 | 14.29 | 13.90 |
| 25-29 Years | 0 | 32 | 70 | 511 | 13,005 | 806 | 3 | 14,427 |
| | 0.00 | 0.22 | 0.49 | 3.54 | 90.14 | 5.59 | 0.02 | |
| | 0.00 | 17.49 | 21.28 | 22.77 | 23.97 | 25.74 | 21.43 | 23.98 |
| 30-34 Years | 1 | 62 | 91 | 703 | 18,664 | 1,031 | 3 | 20,555 |
| | 0.00 | 0.30 | 0.44 | 3.42 | 90.80 | 5.02 | 0.01 | |
| | 33.33 | 33.88 | 27.66 | 31.33 | 34.40 | 32.93 | 21.43 | 34.16 |
| 35-39 Years | 1 | 24 | 57 | 425 | 10,641 | 518 | 1 | 11,667 |
| | 0.01 | 0.21 | 0.49 | 3.64 | 91.21 | 4.44 | 0.01 | |
| | 33.33 | 13.11 | 17.33 | 18.94 | 19.61 | 16.54 | 7.14 | 19.39 |
| 40-44 Years | 0 | 6 | 18 | 104 | 1,987 | 75 | 1 | 2,191 |
| | 0.00 | 0.27 | 0.82 | 4.75 | 90.69 | 3.42 | 0.05 | |
| | 0.00 | 3.28 | 5.47 | 4.63 | 3.66 | 2.40 | 7.14 | 3.64 |
| 45 Years and over | 0 | 0 | 2 | 6 | 57 | 1 | 0 | 66 |
| | 0.00 | 0.00 | 3.03 | 9.09 | 86.36 | 1.52 | 0.00 | |
| | 0.00 | 0.00 | 0.61 | 0.27 | 0.11 | 0.03 | 0.00 | 0.11 |
| Not Stated | 0 | 2 | 2 | 5 | 49 | 1 | 1 | 60 |
| | 0.00 | 3.33 | 3.33 | 8.33 | 81.67 | 1.67 | 1.67 | |
| | 0.00 | 1.09 | 0.61 | 0.22 | 0.09 | 0.03 | 7.14 | 0.10 |
| Total | 3 | 183 | 329 | 2,244 | 54,260 | 3,131 | 14 | 60,164 |
| | 0.00 | 0.30 | 0.55 | 3.73 | 90.19 | 5.20 | 0.02 | 100.00 |

Table F7
Method of Delivery by Age of Mother, Live Births and Stillbirths, 2003

Singleton Births

| Method of Delivery | Age of Mother (Years) | | | | | | | | | |
|----------------------------|-----------------------|-------|-------|--------|--------|--------|-------|-------------|------------|--------|
| | Under 15 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Not Stated | Total |
| Spontaneous | 12 | 1,966 | 5,802 | 9,147 | 12,180 | 7,042 | 1,254 | 31 | 41 | 37,475 |
| | 0.03 | 5.25 | 15.48 | 24.41 | 32.50 | 18.79 | 3.35 | 0.08 | 0.11 | |
| | 80.00 | 69.67 | 69.39 | 63.40 | 59.26 | 60.36 | 57.23 | 46.97 | 68.33 | 62.29 |
| Breech/Forceps | 0 | 19 | 38 | 57 | 94 | 41 | 8 | 0 | 1 | 258 |
| | 0.00 | 7.36 | 14.73 | 22.09 | 36.43 | 15.89 | 3.10 | 0.00 | 0.39 | |
| | 0.00 | 0.67 | 0.45 | 0.40 | 0.46 | 0.35 | 0.37 | 0.00 | 1.67 | 0.43 |
| Forceps | 0 | 91 | 199 | 434 | 657 | 305 | 51 | 0 | 0 | 1,737 |
| | 0.00 | 5.24 | 11.46 | 24.99 | 37.82 | 17.56 | 2.94 | 0.00 | 0.00 | |
| | 0.00 | 3.22 | 2.38 | 3.01 | 3.20 | 2.61 | 2.33 | 0.00 | 0.00 | 2.89 |
| Vacuum Extraction | 1 | 378 | 943 | 1,714 | 2,409 | 1,031 | 177 | 5 | 4 | 6,662 |
| | 0.02 | 5.67 | 14.15 | 25.73 | 36.16 | 15.48 | 2.66 | 0.08 | 0.06 | |
| | 6.67 | 13.39 | 11.28 | 11.88 | 11.72 | 8.84 | 8.08 | 7.58 | 6.67 | 11.07 |
| Caesarean | 2 | 364 | 1,368 | 3,044 | 5,166 | 3,211 | 691 | 30 | 12 | 13,888 |
| | 0.01 | 2.62 | 9.85 | 21.92 | 37.20 | 23.12 | 4.98 | 0.22 | 0.09 | |
| | 13.33 | 12.90 | 16.36 | 21.10 | 25.13 | 27.52 | 31.54 | 45.45 | 20.00 | 23.08 |
| Other specified & Combined | 0 | 4 | 11 | 28 | 47 | 36 | 9 | 0 | 0 | 135 |
| | 0.00 | 2.96 | 8.15 | 20.74 | 34.81 | 26.67 | 6.67 | 0.00 | 0.00 | |
| | 0.00 | 0.14 | 0.13 | 0.19 | 0.23 | 0.31 | 0.41 | 0.00 | 0.00 | 0.22 |
| Not Stated | 0 | 0 | 0 | 3 | 2 | 1 | 1 | 0 | 2 | 9 |
| | 0.00 | 0.00 | 0.00 | 33.33 | 22.22 | 11.11 | 11.11 | 0.00 | 22.22 | |
| | 0.00 | 0.00 | 0.00 | 0.02 | 0.01 | 0.01 | 0.05 | 0.00 | 3.33 | 0.01 |
| Total | 15 | 2,822 | 8,361 | 14,427 | 20,555 | 11,667 | 2,191 | 66 | 60 | 60,164 |
| | 0.02 | 4.69 | 13.90 | 23.98 | 34.16 | 19.39 | 3.64 | 0.11 | 0.10 | 100.00 |

Table F8
Birthweight by Gestation Period at Delivery, Live Births and Stillbirths, 2003

Singleton Births

| Birthweight (grams) | Gestation Period (weeks) | | | | | | | Total |
|---------------------|--------------------------|-------------|-------------|--------------|---------------|--------------|-------------|---------------|
| | Less than 22 | 22-27 | 28-31 | 32-36 | 37-41 | 42 and over | Not Stated | |
| 500-749 | 3 | 82 | 14 | 2 | 0 | 0 | 2 | 103 |
| | 2.91 | 79.61 | 13.59 | 1.94 | 0.00 | 0.00 | 1.94 | |
| | 100.00 | 44.81 | 4.26 | 0.09 | 0.00 | 0.00 | 14.29 | 0.17 |
| 750-999 | 0 | 53 | 44 | 6 | 0 | 0 | 0 | 103 |
| | 0.00 | 51.46 | 42.72 | 5.83 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | 28.96 | 13.37 | 0.27 | 0.00 | 0.00 | 0.00 | 0.17 |
| 1000-1249 | 0 | 35 | 59 | 31 | 1 | 0 | 1 | 127 |
| | 0.00 | 27.56 | 46.46 | 24.41 | 0.79 | 0.00 | 0.79 | |
| | 0.00 | 19.13 | 17.93 | 1.38 | 0.00 | 0.00 | 7.14 | 0.21 |
| 1250-1499 | 0 | 6 | 74 | 59 | 6 | 0 | 1 | 146 |
| | 0.00 | 4.11 | 50.68 | 40.41 | 4.11 | 0.00 | 0.68 | |
| | 0.00 | 3.28 | 22.49 | 2.63 | 0.01 | 0.00 | 7.14 | 0.24 |
| 1500-1999 | 0 | 2 | 110 | 346 | 74 | 0 | 0 | 532 |
| | 0.00 | 0.38 | 20.68 | 65.04 | 13.91 | 0.00 | 0.00 | |
| | 0.00 | 1.09 | 33.43 | 15.42 | 0.14 | 0.00 | 0.00 | 0.88 |
| 2000-2499 | 0 | 2 | 20 | 632 | 840 | 6 | 1 | 1,501 |
| | 0.00 | 0.13 | 1.33 | 42.11 | 55.96 | 0.40 | 0.07 | |
| | 0.00 | 1.09 | 6.08 | 28.16 | 1.55 | 0.19 | 7.14 | 2.49 |
| 2500-2999 | 0 | 0 | 3 | 718 | 5,692 | 110 | 4 | 6,527 |
| | 0.00 | 0.00 | 0.05 | 11.00 | 87.21 | 1.69 | 0.06 | |
| | 0.00 | 0.00 | 0.91 | 32.00 | 10.49 | 3.51 | 28.57 | 10.85 |
| 3000-3499 | 0 | 0 | 1 | 331 | 18,804 | 741 | 1 | 19,878 |
| | 0.00 | 0.00 | 0.01 | 1.67 | 94.60 | 3.73 | 0.01 | |
| | 0.00 | 0.00 | 0.30 | 14.75 | 34.66 | 23.67 | 7.14 | 33.04 |
| 3500-3999 | 0 | 0 | 2 | 92 | 19,483 | 1,271 | 2 | 20,850 |
| | 0.00 | 0.00 | 0.01 | 0.44 | 93.44 | 6.10 | 0.01 | |
| | 0.00 | 0.00 | 0.61 | 4.10 | 35.91 | 40.59 | 14.29 | 34.66 |
| 4000-4499 | 0 | 0 | 0 | 22 | 7,821 | 803 | 1 | 8,647 |
| | 0.00 | 0.00 | 0.00 | 0.25 | 90.45 | 9.29 | 0.01 | |
| | 0.00 | 0.00 | 0.00 | 0.98 | 14.41 | 25.65 | 7.14 | 14.37 |
| 4500 and over | 0 | 0 | 0 | 3 | 1,535 | 200 | 0 | 1,738 |
| | 0.00 | 0.00 | 0.00 | 0.17 | 88.32 | 11.51 | 0.00 | |
| | 0.00 | 0.00 | 0.00 | 0.13 | 2.83 | 6.39 | 0.00 | 2.89 |
| Not Stated | 0 | 3 | 2 | 2 | 4 | 0 | 1 | 12 |
| | 0.00 | 25.00 | 16.67 | 16.67 | 33.33 | 0.00 | 8.33 | |
| | 0.00 | 1.64 | 0.61 | 0.09 | 0.01 | 0.00 | 7.14 | 0.02 |
| Total | 3 | 183 | 329 | 2,244 | 54,260 | 3,131 | 14 | 60,164 |
| | 0.00 | 0.30 | 0.55 | 3.73 | 90.19 | 5.20 | 0.02 | 100.00 |

Table F9
Method of Delivery by Mother's Length of Stay in Hospital after Delivery, 2003

Singleton Births

| Method of Delivery | Postnatal Length of Stay | | | | | | | | |
|-------------------------------|--------------------------|---------------|---------------|--------------|-------------|-------------|-----------------|-------------|---------------|
| | 0-1 Days | 2 Days | 3-5 Days | 6-8 Days | 9-11 Days | 12-14 Days | 2 weeks or more | Not Stated | Total |
| Spontaneous | 6,665 | 13,814 | 16,109 | 496 | 79 | 17 | 19 | 41 | 37,240 |
| | 17.90 | 37.09 | 43.26 | 1.33 | 0.21 | 0.05 | 0.05 | 0.11 | |
| | 90.63 | 85.42 | 49.36 | 15.40 | 22.70 | 22.08 | 27.94 | 78.85 | 62.14 |
| Breech/Forceps | 54 | 49 | 143 | 8 | 2 | 0 | 0 | 1 | 257 |
| | 21.01 | 19.07 | 55.64 | 3.11 | 0.78 | 0.00 | 0.00 | 0.39 | |
| | 0.73 | 0.30 | 0.44 | 0.25 | 0.57 | 0.00 | 0.00 | 1.92 | 0.43 |
| Forceps | 94 | 336 | 1,229 | 65 | 10 | 1 | 2 | 0 | 1,737 |
| | 5.41 | 19.34 | 70.75 | 3.74 | 0.58 | 0.06 | 0.12 | 0.00 | |
| | 1.28 | 2.08 | 3.77 | 2.02 | 2.87 | 1.30 | 2.94 | 0.00 | 2.90 |
| Vacuum Extraction | 481 | 1,737 | 4,245 | 165 | 27 | 4 | 3 | 0 | 6,662 |
| | 7.22 | 26.07 | 63.72 | 2.48 | 0.41 | 0.06 | 0.05 | 0.00 | |
| | 6.54 | 10.74 | 13.01 | 5.12 | 7.76 | 5.19 | 4.41 | 0.00 | 11.12 |
| Caesarean | 56 | 232 | 10,853 | 2,420 | 226 | 52 | 44 | 5 | 13,888 |
| | 0.40 | 1.67 | 78.15 | 17.43 | 1.63 | 0.37 | 0.32 | 0.04 | |
| | 0.76 | 1.43 | 33.25 | 75.13 | 64.94 | 67.53 | 64.71 | 9.62 | 23.17 |
| Other specified & Combined | 3 | 4 | 54 | 67 | 4 | 3 | 0 | 0 | 135 |
| | 2.22 | 2.96 | 40.00 | 49.63 | 2.96 | 2.22 | 0.00 | 0.00 | |
| | 0.04 | 0.02 | 0.17 | 2.08 | 1.15 | 3.90 | 0.00 | 0.00 | 0.23 |
| Not Stated | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 5 | 9 |
| | 11.11 | 0.00 | 33.33 | 0.00 | 0.00 | 0.00 | 0.00 | 55.56 | |
| | 0.01 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 9.62 | 0.02 |
| Total | 7,354 | 16,172 | 32,636 | 3,221 | 348 | 77 | 68 | 52 | 59,928 |
| | 12.27 | 26.99 | 54.46 | 5.37 | 0.58 | 0.13 | 0.11 | 0.09 | 100.00 |

Note:

- 'Not Stated' includes 36 births where place of birth was recorded as domiciliary but birth was registered by hospital. Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.
- Domiciliary births, of which there were 236, are excluded from this table. See Appendix H for detailed analysis.

Table F10

Maternal Parity by Mother's Length of Stay in Hospital after Delivery, Live Births and Stillbirths, 2003

Singleton Births

| Maternal Parity | Postnatal Length of Stay | | | | | | | | |
|-----------------|--------------------------|---------------|---------------|--------------|-------------|-------------|-----------------|-------------|---------------|
| | 0-1 Days | 2 Days | 3-5 Days | 6-8 Days | 9-11 Days | 12-14 Days | 2 weeks or more | Not Stated | Total |
| 0 | 1,291 | 4,649 | 16,445 | 1,756 | 188 | 41 | 41 | 10 | 24,421 |
| | 5.29 | 19.04 | 67.34 | 7.19 | 0.77 | 0.17 | 0.17 | 0.04 | |
| | 17.56 | 28.75 | 50.39 | 54.52 | 54.02 | 53.25 | 60.29 | 19.23 | 40.75 |
| 1 | 2,921 | 6,155 | 9,063 | 781 | 78 | 15 | 17 | 15 | 19,045 |
| | 15.34 | 32.32 | 47.59 | 4.10 | 0.41 | 0.08 | 0.09 | 0.08 | |
| | 39.72 | 38.06 | 27.77 | 24.25 | 22.41 | 19.48 | 25.00 | 28.85 | 31.78 |
| 2 | 1,793 | 3,273 | 4,535 | 416 | 53 | 9 | 6 | 15 | 10,100 |
| | 17.75 | 32.41 | 44.90 | 4.12 | 0.52 | 0.09 | 0.06 | 0.15 | |
| | 24.38 | 20.24 | 13.90 | 12.92 | 15.23 | 11.69 | 8.82 | 28.85 | 16.85 |
| 3 | 788 | 1,321 | 1,624 | 159 | 19 | 9 | 2 | 5 | 3,927 |
| | 20.07 | 33.64 | 41.35 | 4.05 | 0.48 | 0.23 | 0.05 | 0.13 | |
| | 10.72 | 8.17 | 4.98 | 4.94 | 5.46 | 11.69 | 2.94 | 9.62 | 6.55 |
| 4 | 318 | 471 | 585 | 71 | 9 | 2 | 1 | 5 | 1,462 |
| | 21.75 | 32.22 | 40.01 | 4.86 | 0.62 | 0.14 | 0.07 | 0.34 | |
| | 4.32 | 2.91 | 1.79 | 2.20 | 2.59 | 2.60 | 1.47 | 9.62 | 2.44 |
| 5 | 123 | 170 | 229 | 19 | 0 | 0 | 1 | 0 | 542 |
| | 22.69 | 31.37 | 42.25 | 3.51 | 0.00 | 0.00 | 0.18 | 0.00 | |
| | 1.67 | 1.05 | 0.70 | 0.59 | 0.00 | 0.00 | 1.47 | 0.00 | 0.90 |
| 6 | 67 | 73 | 86 | 11 | 0 | 1 | 0 | 1 | 239 |
| | 28.03 | 30.54 | 35.98 | 4.60 | 0.00 | 0.42 | 0.00 | 0.42 | |
| | 0.91 | 0.45 | 0.26 | 0.34 | 0.00 | 1.30 | 0.00 | 1.92 | 0.40 |
| More than 6 | 52 | 58 | 68 | 8 | 1 | 0 | 0 | 0 | 187 |
| | 27.81 | 31.02 | 36.36 | 4.28 | 0.53 | 0.00 | 0.00 | 0.00 | |
| | 0.71 | 0.36 | 0.21 | 0.25 | 0.29 | 0.00 | 0.00 | 0.00 | 0.31 |
| Not Stated | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 5 |
| | 20.00 | 40.00 | 20.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | |
| | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 0.01 |
| Total | 7,354 | 16,172 | 32,636 | 3,221 | 348 | 77 | 68 | 52 | 59,928 |
| | 12.27 | 26.99 | 54.46 | 5.37 | 0.58 | 0.13 | 0.11 | 0.09 | 100.00 |

Note:

- 'Not Stated' includes 36 births where place of birth was recorded as domiciliary but birth was registered by a hospital. Mother was not admitted under a planned community midwife scheme, therefore, dates of mother's length of stay were not applicable.

- Domiciliary births, of which there were 236, are excluded from this table. See Appendix H for detailed analysis.

Table F11
Father's Occupation by Infant's Birthweight, Live Births and Stillbirths, 2003

Singleton Births

| Father's Occupation | Birthweight (grams) | | | | | | | | | | | | Total |
|--|---------------------|---------------------|---------------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|--------------------|--------------------------|
| | 500-749 | 750-999 | 1000-1249 | 1250-1499 | 1500-1999 | 2000-2499 | 2500-2999 | 3000-3499 | 3500-3999 | 4000-4499 | 4500 and over | Not Stated | |
| Farmers & Farm Managers | 2 0.08 1.94 | 6 0.23 5.83 | 7 0.27 5.51 | 6 0.23 4.11 | 17 0.66 3.20 | 54 2.11 3.60 | 193 7.54 2.96 | 743 29.02 3.74 | 964 37.66 4.62 | 466 18.20 5.39 | 101 3.95 5.81 | 1 0.04 8.33 | 2,560 4.26 |
| Other Agricultural Occupations & Fishermen | 1 0.17 0.97 | 0 0.00 0.00 | 2 0.34 1.57 | 1 0.17 0.68 | 4 0.69 0.75 | 12 2.07 0.80 | 53 9.14 0.81 | 171 29.48 0.86 | 214 36.90 1.03 | 95 16.38 1.10 | 27 4.66 1.55 | 0 0.00 0.00 | 580 0.96 |
| Higher-Professional | 5 0.13 4.85 | 6 0.16 5.83 | 6 0.16 4.72 | 6 0.16 4.11 | 29 0.76 5.45 | 68 1.79 4.53 | 325 8.57 4.98 | 1,233 32.52 6.20 | 1,387 36.58 6.65 | 601 15.85 6.95 | 125 3.30 7.19 | 1 0.03 8.33 | 3,792 6.30 |
| Lower-Professional | 3 0.10 2.91 | 1 0.03 0.97 | 4 0.13 3.15 | 4 0.13 2.74 | 22 0.73 4.14 | 54 1.80 3.60 | 255 8.48 3.91 | 924 30.73 4.65 | 1,134 37.71 5.44 | 520 17.29 6.01 | 86 2.86 4.95 | 0 0.00 0.00 | 3,007 5.00 |
| Managers | 2 0.04 1.94 | 7 0.14 6.80 | 18 0.37 14.17 | 11 0.23 7.53 | 25 0.51 4.70 | 72 1.48 4.80 | 404 8.29 6.19 | 1,488 30.54 7.49 | 1,860 38.17 8.92 | 860 17.65 9.95 | 126 2.59 7.25 | 0 0.00 0.00 | 4,873 8.10 |
| Salaried-Employees | 0 0.00 0.00 | 3 0.19 2.91 | 2 0.13 1.57 | 4 0.26 2.74 | 10 0.64 1.88 | 30 1.93 2.00 | 146 9.38 2.24 | 494 31.73 2.49 | 582 37.38 2.79 | 240 15.41 2.78 | 46 2.95 2.65 | 0 0.00 0.00 | 1,557 2.59 |
| Non-Manual Workers | 5 0.12 4.85 | 5 0.12 4.85 | 5 0.12 3.94 | 5 0.12 3.42 | 26 0.61 4.89 | 92 2.17 6.13 | 400 9.44 6.13 | 1,356 32.00 6.82 | 1,511 35.66 7.25 | 686 16.19 7.93 | 144 3.40 8.29 | 2 0.05 16.67 | 4,237 7.04 |
| Other Non-Manual Workers | 5 0.10 4.85 | 5 0.10 4.85 | 9 0.19 7.09 | 10 0.21 6.85 | 53 1.11 9.96 | 104 2.18 6.93 | 532 11.14 8.15 | 1,564 32.74 7.87 | 1,666 34.88 7.99 | 665 13.92 7.69 | 164 3.43 9.44 | 0 0.00 0.00 | 4,777 7.94 |
| Skilled Manual Workers | 15 0.14 14.56 | 11 0.10 10.68 | 15 0.14 11.81 | 22 0.20 15.07 | 86 0.78 16.17 | 252 2.29 16.79 | 1,053 9.58 16.13 | 3,452 31.40 17.37 | 4,035 36.71 19.35 | 1,676 15.25 19.38 | 373 3.39 21.46 | 2 0.02 16.67 | 10,992 18.27 |
| Semi-skilled Manual Workers | 3 0.12 2.91 | 3 0.12 2.91 | 4 0.15 3.15 | 2 0.08 1.37 | 18 0.69 3.38 | 65 2.50 4.33 | 276 10.62 4.23 | 853 32.81 4.29 | 932 35.85 4.47 | 372 14.31 4.30 | 71 2.73 4.09 | 1 0.04 8.33 | 2,600 4.32 |
| Unskilled Manual Workers | 1 0.18 0.97 | 2 0.36 1.94 | 2 0.36 1.57 | 4 0.72 2.74 | 3 0.54 0.56 | 14 2.52 0.93 | 74 13.33 1.13 | 186 33.51 0.94 | 192 34.59 0.92 | 66 11.89 0.76 | 11 1.98 0.63 | 0 0.00 0.00 | 555 0.92 |
| Unemployed | 2 0.09 1.94 | 11 0.51 10.68 | 6 0.28 4.72 | 10 0.47 6.85 | 24 1.12 4.51 | 58 2.71 3.86 | 315 14.71 4.83 | 758 35.39 3.81 | 651 30.39 3.12 | 243 11.34 2.81 | 63 2.94 3.62 | 1 0.05 8.33 | 2,142 3.56 |
| Not Classifiable | 2 0.20 1.94 | 3 0.31 2.91 | 3 0.31 2.36 | 3 0.31 2.05 | 6 0.61 1.13 | 26 2.65 1.73 | 103 10.49 1.58 | 376 38.29 1.89 | 304 30.96 1.46 | 129 13.14 1.49 | 27 2.75 1.55 | 0 0.00 0.00 | 982 1.63 |
| Not Applicable | 51 0.32 49.51 | 38 0.24 36.89 | 39 0.24 30.71 | 53 0.33 36.30 | 196 1.22 36.84 | 559 3.49 37.24 | 2,213 13.81 33.91 | 5,716 35.68 28.76 | 4,954 30.93 23.76 | 1,859 11.60 21.50 | 337 2.10 19.39 | 4 0.02 33.33 | 16,019 26.63 |
| Not Stated | 6 0.40 5.83 | 2 0.13 1.94 | 5 0.34 3.94 | 5 0.34 3.42 | 13 0.87 2.44 | 41 2.75 2.73 | 185 12.41 2.83 | 564 37.83 2.84 | 464 31.12 2.23 | 169 11.33 1.95 | 37 2.48 2.13 | 0 0.00 0.00 | 1,491 2.48 |
| Total | 103 0.17 | 103 0.17 | 127 0.21 | 146 0.24 | 532 0.88 | 1,501 2.49 | 6,527 10.85 | 19,878 33.04 | 20,850 34.66 | 8,647 14.37 | 1,738 2.89 | 12 0.02 | 60,164 100.00 |

Note: In this table 'Not Classifiable' includes 89 Fathers whose occupation was recorded as 'Home Duties'.

Table F12
Mother's Occupation by Infant's Birthweight, Live Births and Stillbirths, 2003

Singleton Births

| Mother's Occupation | Birthweight (grams) | | | | | | | | | | | | Total |
|--|---------------------|---------------------|---------------------|---------------------|----------------------|-----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------|--------------------|--------------------------|
| | 500-749 | 750-999 | 1000-1249 | 1250-1499 | 1500-1999 | 2000-2499 | 2500-2999 | 3000-3499 | 3500-3999 | 4000-4499 | 4500 and over | Not Stated | |
| Farmers & Farm Managers | 0 0.00 0.00 | 2 1.89 1.94 | 0 0.00 0.00 | 0 0.00 0.00 | 2 1.89 0.38 | 0 0.00 0.00 | 13 12.26 0.20 | 27 25.47 0.14 | 42 39.62 0.20 | 17 16.04 0.20 | 3 2.83 0.17 | 0 0.00 0.00 | 106 0.18 |
| Other Agricultural Occupations & Fishermen | 1 0.72 0.97 | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 4 2.90 0.27 | 14 10.14 0.21 | 47 34.06 0.24 | 48 34.78 0.23 | 23 16.67 0.27 | 1 0.72 0.06 | 0 0.00 0.00 | 138 0.23 |
| Higher-Professional | 7 0.26 6.80 | 3 0.11 2.91 | 2 0.07 1.57 | 1 0.04 0.68 | 17 0.63 3.20 | 36 1.34 2.40 | 211 7.86 3.23 | 861 32.08 4.33 | 1,031 38.41 4.94 | 447 16.65 5.17 | 67 2.50 3.86 | 1 0.04 8.33 | 2,684 4.46 |
| Lower-Professional | 10 0.13 9.71 | 3 0.04 2.91 | 10 0.13 7.87 | 13 0.17 8.90 | 38 0.51 7.14 | 133 1.78 8.86 | 620 8.29 9.50 | 2,312 30.91 11.63 | 2,826 37.78 13.55 | 1,281 17.13 14.81 | 233 3.11 13.41 | 1 0.01 8.33 | 7,480 12.43 |
| Managers | 4 0.11 3.88 | 4 0.11 3.88 | 12 0.33 9.45 | 7 0.19 4.79 | 32 0.88 6.02 | 81 2.24 5.40 | 301 8.31 4.61 | 1,090 30.09 5.48 | 1,377 38.01 6.60 | 596 16.45 6.89 | 119 3.28 6.85 | 0 0.00 0.00 | 3,623 6.02 |
| Salaried-Employees | 0 0.00 0.00 | 2 0.21 1.94 | 5 0.54 3.94 | 2 0.21 1.37 | 7 0.75 1.32 | 22 2.36 1.47 | 85 9.13 1.30 | 303 32.55 1.52 | 335 35.98 1.61 | 148 15.90 1.71 | 22 2.36 1.27 | 0 0.00 0.00 | 931 1.55 |
| Non-Manual Workers | 21 0.16 20.39 | 22 0.16 21.36 | 28 0.21 22.05 | 37 0.28 25.34 | 128 0.96 24.06 | 301 2.26 20.05 | 1,324 9.92 20.28 | 4,358 32.66 21.92 | 4,723 35.40 22.65 | 1,989 14.91 23.00 | 409 3.07 23.53 | 3 0.02 25.00 | 13,343 22.18 |
| Other Non-Manual Workers | 12 0.20 11.65 | 8 0.13 7.77 | 8 0.13 6.30 | 14 0.23 9.59 | 40 0.66 7.52 | 174 2.85 11.59 | 729 11.96 11.17 | 2,099 34.43 10.56 | 2,025 33.22 9.71 | 834 13.68 9.64 | 152 2.49 8.75 | 1 0.02 8.33 | 6,096 10.13 |
| Skilled Manual Workers | 0 0.00 0.00 | 0 0.00 0.00 | 1 0.15 0.79 | 0 0.00 0.00 | 2 0.30 0.38 | 21 3.15 1.40 | 65 9.76 1.00 | 210 31.53 1.06 | 242 36.34 1.16 | 105 15.77 1.21 | 20 3.00 1.15 | 0 0.00 0.00 | 666 1.11 |
| Semi-skilled Manual Workers | 6 0.22 5.83 | 9 0.33 8.74 | 4 0.15 3.15 | 12 0.44 8.22 | 21 0.76 3.95 | 80 2.90 5.33 | 351 12.73 5.38 | 935 33.91 4.70 | 899 32.61 4.31 | 365 13.24 4.22 | 75 2.72 4.32 | 0 0.00 0.00 | 2,757 4.58 |
| Unskilled Manual Workers | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 2 25.00 0.03 | 4 50.00 0.02 | 2 25.00 0.01 | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 8 0.01 |
| Unemployed | 10 0.35 9.71 | 8 0.28 7.77 | 7 0.25 5.51 | 12 0.42 8.22 | 35 1.24 6.58 | 91 3.22 6.06 | 492 17.40 7.54 | 1,064 37.64 5.35 | 809 28.62 3.88 | 251 8.88 2.90 | 47 1.66 2.70 | 1 0.04 8.33 | 2,827 4.70 |
| Not Classifiable | 4 0.19 3.88 | 7 0.33 6.80 | 9 0.42 7.09 | 7 0.33 4.79 | 21 0.99 3.95 | 67 3.14 4.46 | 265 12.44 4.06 | 773 36.27 3.89 | 689 32.33 3.30 | 254 11.92 2.94 | 35 1.64 2.01 | 0 0.00 0.00 | 2,131 3.54 |
| Home Duties | 22 0.13 21.36 | 29 0.18 28.16 | 37 0.23 29.13 | 36 0.22 24.66 | 174 1.06 32.71 | 467 2.84 31.11 | 1,927 11.74 29.52 | 5,433 33.10 27.33 | 5,517 33.61 26.46 | 2,240 13.65 25.90 | 531 3.23 30.55 | 2 0.01 16.67 | 16,415 27.28 |
| Not Stated | 6 0.63 5.83 | 6 0.63 5.83 | 4 0.42 3.15 | 5 0.52 3.42 | 15 1.56 2.82 | 24 2.50 1.60 | 128 13.35 1.96 | 362 37.75 1.82 | 285 29.72 1.37 | 97 10.11 1.12 | 24 2.50 1.38 | 3 0.31 25.00 | 959 1.59 |
| Total | 103 0.17 | 103 0.17 | 127 0.21 | 146 0.24 | 532 0.88 | 1,501 2.49 | 6,527 10.85 | 19,878 33.04 | 20,850 34.66 | 8,647 14.37 | 1,738 2.89 | 12 0.02 | 60,164 100.00 |

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

Table F13

Father's Occupation by Interval in Years Since Last Birth, Live Births and Stillbirths, 2003

Singleton Births

| Father's Occupation | Interval Since Last Birth | | | | | | | | | | |
|--|-------------------------------|---------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|---------------------------|--------------------------------|
| | No Previous Births | 1 year or less | >1 year to 2 years | > 2 years to 3 years | > 3 years to 4 years | > 4 years to 5 years | > 5 years to 6 years | More than 6 years | No. of Previous Births Unknown | Not Stated | Total |
| Frequency Row Per Cent Col. Per Cent | | | | | | | | | | | |
| Farmers & Farm Managers | 703 27.46 2.87 | 27 1.05 4.80 | 539 21.05 6.21 | 546 21.33 6.09 | 258 10.08 4.54 | 173 6.76 4.85 | 93 3.63 3.99 | 183 7.15 3.45 | 0 0.00 0.00 | 38 1.48 6.17 | 2,560 4.26 |
| Other Agricultural Occupations & Fishermen | 190 32.76 0.78 | 4 0.69 0.71 | 88 15.17 1.01 | 113 19.48 1.26 | 65 11.21 1.14 | 35 6.03 0.98 | 21 3.62 0.90 | 58 10.00 1.09 | 0 0.00 0.00 | 6 1.03 0.97 | 580 0.96 |
| Higher-Professional | 1,442 38.03 5.90 | 24 0.63 4.27 | 708 18.67 8.16 | 757 19.96 8.44 | 376 9.92 6.62 | 176 4.64 4.93 | 99 2.61 4.25 | 180 4.75 3.40 | 0 0.00 0.00 | 30 0.79 4.87 | 3,792 6.30 |
| Lower-Professional | 1,243 41.34 5.08 | 16 0.53 2.85 | 483 16.06 5.57 | 553 18.39 6.16 | 276 9.18 4.86 | 148 4.92 4.15 | 81 2.69 3.48 | 183 6.09 3.45 | 0 0.00 0.00 | 24 0.80 3.90 | 3,007 5.00 |
| Managers | 1,783 36.59 7.29 | 35 0.72 6.23 | 752 15.43 8.67 | 938 19.25 10.45 | 549 11.27 9.66 | 307 6.30 8.60 | 171 3.51 7.35 | 303 6.22 5.72 | 0 0.00 0.00 | 35 0.72 5.68 | 4,873 8.10 |
| Salaried-Employees | 589 37.83 2.41 | 8 0.51 1.42 | 246 15.80 2.84 | 270 17.34 3.01 | 176 11.30 3.10 | 104 6.68 2.91 | 59 3.79 2.53 | 93 5.97 1.75 | 0 0.00 0.00 | 12 0.77 1.95 | 1,557 2.59 |
| Non-Manual Workers | 1,563 36.89 6.39 | 31 0.73 5.52 | 651 15.36 7.50 | 702 16.57 7.82 | 484 11.42 8.52 | 273 6.44 7.65 | 173 4.08 7.43 | 312 7.36 5.89 | 0 0.00 0.00 | 48 1.13 7.79 | 4,237 7.04 |
| Other Non-Manual Workers | 1,653 34.60 6.76 | 40 0.84 7.12 | 664 13.90 7.65 | 759 15.89 8.46 | 519 10.86 9.14 | 332 6.95 9.30 | 225 4.71 9.66 | 541 11.33 10.21 | 0 0.00 0.00 | 44 0.92 7.14 | 4,777 7.94 |
| Skilled Manual Workers | 3,836 34.90 15.69 | 102 0.93 18.15 | 1,625 14.78 18.73 | 1,862 16.94 20.75 | 1,228 11.17 21.62 | 727 6.61 20.36 | 458 4.17 19.67 | 1,024 9.32 19.32 | 1 0.01 50.00 | 129 1.17 20.94 | 10,992 18.27 |
| Semi-skilled Manual Workers | 903 34.73 3.69 | 23 0.88 4.09 | 309 11.88 3.56 | 384 14.77 4.28 | 301 11.58 5.30 | 211 8.12 5.91 | 126 4.85 5.41 | 302 11.62 5.70 | 0 0.00 0.00 | 41 1.58 6.66 | 2,600 4.32 |
| Unskilled Manual Workers | 153 27.57 0.63 | 9 1.62 1.60 | 97 17.48 1.12 | 75 13.51 0.84 | 69 12.43 1.21 | 34 6.13 0.95 | 31 5.59 1.33 | 80 14.41 1.51 | 0 0.00 0.00 | 7 1.26 1.14 | 555 0.92 |
| Unemployed | 561 26.19 2.29 | 51 2.38 9.07 | 566 26.42 6.52 | 349 16.29 3.89 | 195 9.10 3.43 | 118 5.51 3.31 | 83 3.87 3.57 | 180 8.40 3.40 | 0 0.00 0.00 | 39 1.82 6.33 | 2,142 3.56 |
| Not Classifiable | 387 39.41 1.58 | 10 1.02 1.78 | 195 19.86 2.25 | 147 14.97 1.64 | 75 7.64 1.32 | 59 6.01 1.65 | 32 3.26 1.37 | 74 7.54 1.40 | 0 0.00 0.00 | 3 0.31 0.49 | 982 1.63 |
| Not Applicable | 8,971 56.00 36.68 | 161 1.01 28.65 | 1,444 9.01 16.64 | 1,279 7.98 14.26 | 981 6.12 17.27 | 790 4.93 22.13 | 628 3.92 26.98 | 1,637 10.22 30.89 | 1 0.01 50.00 | 127 0.79 20.62 | 16,019 26.63 |
| Not Stated | 479 32.13 1.96 | 21 1.41 3.74 | 310 20.79 3.57 | 238 15.96 2.65 | 129 8.65 2.27 | 83 5.57 2.32 | 48 3.22 2.06 | 150 10.06 2.83 | 0 0.00 0.00 | 33 2.21 5.36 | 1,491 2.48 |
| Total | 24,456 40.65 | 562 0.93 | 8,677 14.42 | 8,972 14.91 | 5,681 9.44 | 3,570 5.93 | 2,328 3.87 | 5,300 8.81 | 2 0.00 | 616 1.02 | 60,164 100.00 |

Note: In this table 'Not Classifiable' includes 89 Fathers whose occupation was recorded as 'Home Duties'.

Table F14

Mother's Occupation by Interval in Years Since Last Birth, Live Births and Stillbirths, 2003

Singleton Births

| Mother's Occupation | Interval Since Last Birth | | | | | | | | | | |
|--|--------------------------------------|---------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------|--------------------------------|--------------------------------|
| | Frequency Row Per Cent Col. Per Cent | No Previous Births | 1 year or less | >1 year to 2 years | > 2 years to 3 years | > 3 years to 4 years | > 4 years to 5 years | > 5 years to 6 years | More than 6 years | No. of Previous Births Unknown | Not Stated |
| Farmers & Farm Managers | 37 34.91 0.15 | 1 0.94 0.18 | 24 22.64 0.28 | 20 18.87 0.22 | 12 11.32 0.21 | 4 3.77 0.11 | 2 1.89 0.09 | 3 2.83 0.06 | 0 0.00 0.00 | 3 2.83 0.49 | 106 |
| Other Agricultural Occupations & Fishermen | 78 56.52 0.32 | 0 0.00 0.00 | 18 13.04 0.21 | 15 10.87 0.17 | 5 3.62 0.09 | 6 4.35 0.17 | 3 2.17 0.13 | 12 8.70 0.23 | 0 0.00 0.00 | 1 0.72 0.16 | 138 |
| Higher-Professional | 1,243 46.31 5.08 | 15 0.56 2.67 | 467 17.40 5.38 | 447 16.65 4.98 | 222 8.27 3.91 | 106 3.95 2.97 | 59 2.20 2.53 | 103 3.84 1.94 | 0 0.00 0.00 | 22 0.82 3.57 | 2,684 |
| Lower-Professional | 3,134 41.90 12.81 | 31 0.41 5.52 | 1,292 17.27 14.89 | 1,315 17.58 14.66 | 643 8.60 11.32 | 372 4.97 10.42 | 215 2.87 9.24 | 416 5.56 7.85 | 0 0.00 0.00 | 62 0.83 10.06 | 7,480 |
| Managers | 1,929 53.24 7.89 | 21 0.58 3.74 | 408 11.26 4.70 | 466 12.86 5.19 | 296 8.17 5.21 | 148 4.09 4.15 | 108 2.98 4.64 | 236 6.51 4.45 | 0 0.00 0.00 | 11 0.30 1.79 | 3,623 |
| Salaried-Employees | 542 58.22 2.22 | 5 0.54 0.89 | 104 11.17 1.20 | 95 10.20 1.06 | 68 7.30 1.20 | 36 3.87 1.01 | 23 2.47 0.99 | 49 5.26 0.92 | 0 0.00 0.00 | 9 0.97 1.46 | 931 |
| Non-Manual Workers | 6,413 48.06 26.22 | 102 0.76 18.15 | 1,392 10.43 16.04 | 1,735 13.00 19.34 | 1,221 9.15 21.49 | 755 5.66 21.15 | 490 3.67 21.05 | 1,134 8.50 21.40 | 1 0.01 50.00 | 100 0.75 16.23 | 13,343 |
| Other Non-Manual Workers | 2,926 48.00 11.96 | 52 0.85 9.25 | 580 9.51 6.68 | 669 10.97 7.46 | 488 8.01 8.59 | 358 5.87 10.03 | 283 4.64 12.16 | 697 11.43 13.15 | 0 0.00 0.00 | 43 0.71 6.98 | 6,096 |
| Skilled Manual Workers | 331 49.70 1.35 | 1 0.15 0.18 | 82 12.31 0.95 | 99 14.86 1.10 | 47 7.06 0.83 | 31 4.65 0.87 | 18 2.70 0.77 | 50 7.51 0.94 | 0 0.00 0.00 | 7 1.05 1.14 | 666 |
| Semi-skilled Manual Workers | 1,313 47.62 5.37 | 10 0.36 1.78 | 249 9.03 2.87 | 299 10.85 3.33 | 231 8.38 4.07 | 165 5.98 4.62 | 126 4.57 5.41 | 335 12.15 6.32 | 0 0.00 0.00 | 29 1.05 4.71 | 2,757 |
| Unskilled Manual Workers | 1 12.50 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 3 37.50 0.03 | 0 0.00 0.00 | 1 12.50 0.03 | 0 0.00 0.00 | 3 37.50 0.06 | 0 0.00 0.00 | 0 0.00 0.00 | 8 |
| Unemployed | 1,317 46.59 5.39 | 42 1.49 7.47 | 460 16.27 5.30 | 311 11.00 3.47 | 197 6.97 3.47 | 112 3.96 3.14 | 104 3.68 4.47 | 231 8.17 4.36 | 0 0.00 0.00 | 53 1.87 8.60 | 2,827 |
| Not Classifiable | 1,559 73.16 6.37 | 12 0.56 2.14 | 139 6.52 1.60 | 141 6.62 1.57 | 77 3.61 1.36 | 56 2.63 1.57 | 39 1.83 1.68 | 95 4.46 1.79 | 1 0.05 50.00 | 12 0.56 1.95 | 2,131 |
| Home Duties | 3,172 19.32 12.97 | 255 1.55 45.37 | 3,314 20.19 38.19 | 3,242 19.75 36.13 | 2,122 12.93 37.35 | 1,387 8.45 38.85 | 824 5.02 35.40 | 1,864 11.36 35.17 | 0 0.00 0.00 | 235 1.43 38.15 | 16,415 |
| Not Stated | 461 48.07 1.89 | 15 1.56 2.67 | 148 15.43 1.71 | 115 11.99 1.28 | 52 5.42 0.92 | 33 3.44 0.92 | 34 3.55 1.46 | 72 7.51 1.36 | 0 0.00 0.00 | 29 3.02 4.71 | 959 |
| Total | 24,456 40.65 | 562 0.93 | 8,677 14.42 | 8,972 14.91 | 5,681 9.44 | 3,570 5.93 | 2,328 3.87 | 5,300 8.81 | 2 0.00 | 616 1.02 | 60,164 100.00 |

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

Table F15

Father's Occupation by Infant's Type of Feeding, Live Births Only, 2003

Singleton Births

| Father's Occupation | Type of Feeding | | | | |
|--|-------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------------|
| | Artificial | Breast | Combined | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Farmers & Farm Managers | 1,427 56.03 4.33 | 1,064 41.77 4.29 | 53 2.08 2.63 | 3 0.12 3.45 | 2,547 4.26 |
| Other Agricultural Occupations & Fishermen | 340 58.72 1.03 | 232 40.07 0.94 | 7 1.21 0.35 | 0 0.00 0.00 | 579 0.97 |
| Higher-Professional | 1,170 30.95 3.55 | 2,405 63.62 9.70 | 203 5.37 10.07 | 2 0.05 2.30 | 3,780 6.32 |
| Lower-Professional | 975 32.55 2.96 | 1,905 63.61 7.68 | 114 3.81 5.66 | 1 0.03 1.15 | 2,995 5.01 |
| Managers | 2,189 45.13 6.64 | 2,476 51.05 9.99 | 179 3.69 8.88 | 6 0.12 6.90 | 4,850 8.11 |
| Salaried-Employees | 768 49.81 2.33 | 729 47.28 2.94 | 44 2.85 2.18 | 1 0.06 1.15 | 1,542 2.58 |
| Non-Manual Workers | 2,059 48.77 6.25 | 2,003 47.44 8.08 | 156 3.69 7.74 | 4 0.09 4.60 | 4,222 7.06 |
| Other Non-Manual Workers | 2,743 57.67 8.33 | 1,844 38.77 7.44 | 162 3.41 8.04 | 7 0.15 8.05 | 4,756 7.95 |
| Skilled Manual Workers | 6,199 56.62 18.82 | 4,450 40.64 17.95 | 280 2.56 13.90 | 20 0.18 22.99 | 10,949 18.30 |
| Semi-skilled Manual Workers | 1,740 67.21 5.28 | 780 30.13 3.15 | 69 2.67 3.42 | 0 0.00 0.00 | 2,589 4.33 |
| Unskilled Manual Workers | 427 77.78 1.30 | 109 19.85 0.44 | 13 2.37 0.65 | 0 0.00 0.00 | 549 0.92 |
| Unemployed | 1,184 55.61 3.59 | 806 37.86 3.25 | 132 6.20 6.55 | 7 0.33 8.05 | 2,129 3.56 |
| Not Classifiable | 375 38.42 1.14 | 529 54.20 2.13 | 69 7.07 3.42 | 3 0.31 3.45 | 976 1.63 |
| Not Applicable | 10,849 68.20 32.93 | 4,670 29.36 18.84 | 357 2.24 17.72 | 32 0.20 36.78 | 15,908 26.59 |
| Not Stated | 500 34.11 1.52 | 788 53.75 3.18 | 177 12.07 8.78 | 1 0.07 1.15 | 1,466 2.45 |
| Total | 32,945 55.06 | 24,790 41.43 | 2,015 3.37 | 87 0.15 | 59,837 100.00 |

Note:

- In this table 'Not Classifiable' includes 89 fathers whose occupation was recorded as 'Home Duties'.
- 'Not Stated' contains 73 Early Neonatal Deaths for which Type of Feeding was not stated.

Table F16
Mother's Occupation by Infant's Type of Feeding, Live Births Only, 2003

Singleton Births

| Mother's Occupation | Type of Feeding | | | | |
|--|-------------------------------|-------------------------------|-----------------------------|--------------------------|--------------------------------|
| | Artificial | Breast | Combined | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Farmers & Farm Managers | 54 51.92 0.16 | 47 45.19 0.19 | 3 2.88 0.15 | 0 0.00 0.00 | 104 0.17 |
| Other Agricultural Occupations & Fishermen | 54 39.13 0.16 | 80 57.97 0.32 | 4 2.90 0.20 | 0 0.00 0.00 | 138 0.23 |
| Higher-Professional | 753 28.13 2.29 | 1,793 66.98 7.23 | 127 4.74 6.30 | 4 0.15 4.60 | 2,677 4.47 |
| Lower-Professional | 2,502 33.60 7.59 | 4,676 62.79 18.86 | 261 3.50 12.95 | 8 0.11 9.20 | 7,447 12.45 |
| Managers | 1,642 45.47 4.98 | 1,829 50.65 7.38 | 130 3.60 6.45 | 10 0.28 11.49 | 3,611 6.03 |
| Salaried-Employees | 476 51.52 1.44 | 424 45.89 1.71 | 23 2.49 1.14 | 1 0.11 1.15 | 924 1.54 |
| Non-Manual Workers | 8,278 62.25 25.13 | 4,681 35.20 18.88 | 321 2.41 15.93 | 17 0.13 19.54 | 13,297 22.22 |
| Other Non-Manual Workers | 3,715 61.24 11.28 | 2,178 35.91 8.79 | 165 2.72 8.19 | 8 0.13 9.20 | 6,066 10.14 |
| Skilled Manual Workers | 301 45.26 0.91 | 348 52.33 1.40 | 16 2.41 0.79 | 0 0.00 0.00 | 665 1.11 |
| Semi-skilled Manual Workers | 2,084 76.00 6.33 | 609 22.21 2.46 | 47 1.71 2.33 | 2 0.07 2.30 | 2,742 4.58 |
| Unskilled Manual Workers | 3 50.00 0.01 | 3 50.00 0.01 | 0 0.00 0.00 | 0 0.00 0.00 | 6 0.01 |
| Unemployed | 1,938 68.97 5.88 | 745 26.51 3.01 | 116 4.13 5.76 | 11 0.39 12.64 | 2,810 4.70 |
| Not Classifiable | 1,270 60.19 3.85 | 778 36.87 3.14 | 60 2.84 2.98 | 2 0.09 2.30 | 2,110 3.53 |
| Home Duties | 9,509 58.34 28.86 | 6,157 37.77 24.84 | 616 3.78 30.57 | 18 0.11 20.69 | 16,300 27.24 |
| Not Stated | 366 38.94 1.11 | 442 47.02 1.78 | 126 13.40 6.25 | 6 0.64 6.90 | 940 1.57 |
| Total | 32,945 55.06 | 24,790 41.43 | 2,015 3.37 | 87 0.15 | 59,837 100.00 |

Note:

- 'Not Applicable' is not used in the classification of maternal occupation. See Appendix C for a description of the classification system for occupations.
- 'Not Stated' contains 73 Early Neonatal Deaths for which Type of Feeding was not stated.

Table F17
Infant's Type of Feeding by Maternal Parity, Live Births Only, 2003

Singleton Births

| Type of Feeding | Maternal Parity | | | | | | | | | |
|-----------------|-----------------|--------|--------|-------|-------|-------|-------|-------------|------------|--------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | More than 6 | Not Stated | Total |
| Artificial | 12,392 | 10,886 | 5,875 | 2,290 | 860 | 343 | 172 | 126 | 1 | 32,945 |
| | 37.61 | 33.04 | 17.83 | 6.95 | 2.61 | 1.04 | 0.52 | 0.38 | 0.00 | |
| | 50.99 | 57.13 | 58.01 | 58.34 | 58.82 | 62.94 | 72.57 | 70.39 | 20.00 | 55.06 |
| Breast | 11,013 | 7,558 | 3,926 | 1,481 | 529 | 175 | 57 | 49 | 2 | 24,790 |
| | 44.43 | 30.49 | 15.84 | 5.97 | 2.13 | 0.71 | 0.23 | 0.20 | 0.01 | |
| | 45.32 | 39.66 | 38.76 | 37.73 | 36.18 | 32.11 | 24.05 | 27.37 | 40.00 | 41.43 |
| Combined | 854 | 597 | 311 | 148 | 68 | 26 | 8 | 3 | 0 | 2,015 |
| | 42.38 | 29.63 | 15.43 | 7.34 | 3.37 | 1.29 | 0.40 | 0.15 | 0.00 | |
| | 3.51 | 3.13 | 3.07 | 3.77 | 4.65 | 4.77 | 3.38 | 1.68 | 0.00 | 3.37 |
| Not Stated | 42 | 14 | 16 | 6 | 5 | 1 | 0 | 1 | 2 | 87 |
| | 48.28 | 16.09 | 18.39 | 6.90 | 5.75 | 1.15 | 0.00 | 1.15 | 2.30 | |
| | 0.17 | 0.07 | 0.16 | 0.15 | 0.34 | 0.18 | 0.00 | 0.56 | 40.00 | 0.15 |
| Total | 24,301 | 19,055 | 10,128 | 3,925 | 1,462 | 545 | 237 | 179 | 5 | 59,837 |
| | 40.61 | 31.84 | 16.93 | 6.56 | 2.44 | 0.91 | 0.40 | 0.30 | 0.01 | 100.00 |

Appendix G

Wigglesworth Classification, 2003

Basis of System

In this section perinatal deaths are classified according to the system devised by Dr. J. S. Wigglesworth. The system is purposely designed to be relatively straightforward and to overcome some of the inherent difficulties of subjectivity and lack of uniformity in the assignment of causes of perinatal death.⁷ With the aim of identifying areas with implications for perinatal care, five mutually exclusive and clinically relevant categories are suggested. Cross-classification of these categories by birthweight can then be used to highlight areas of particular concern.⁸

Method of Classification

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

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

The assignment of a unique Wigglesworth class to each perinatal death presents a number of difficulties. The first and most general of these results from the fact that no standard system has yet been devised for the translation of the ICD codes relating to main cause of death into the corresponding categories suggested by Wigglesworth. In most cases the assignment is straightforward, but in certain instances (for example, preterm births where asphyxia is indicated or stillbirths where antepartum haemorrhage is recorded), the appropriate classification is not immediately obvious and additional variables require consideration. For these reasons, gestational age and type of stillbirth (i.e. antepartum or intrapartum) are taken into account in the classification system described below. In adopting this system, note has also been taken of a number of pilot schemes carried out in Britain as well as the guidelines set out by Dr. Wigglesworth.⁹

⁷ Wigglesworth, J.S., 1980, "Monitoring Perinatal Mortality", *The Lancet*, Vol. 2, pp.684-686.

⁸ The analysis by Wigglesworth's categories, unlike the main report, includes 51 births that weighed less than 500 grams. The outcomes of these births were 31 stillbirths and 20 early neonatal deaths.

⁹ a) South East Thames Perinatal Monitoring Group, *Confidential Enquiry into Perinatal Deaths*, 1986.
b) Unpublished report, "Scottish Stillbirth and Neonatal Death Enquiry", based on 1985 data.

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

Results

Tabulations based on the Wigglesworth classification are presented in the following pages. Table G1 indicates the percentage of perinatal deaths attributable to each cause for 2003. Table G2 provides a classification of cause of death by birthweight and indicates cause and weight specific perinatal mortality rates for 2003. It is this table that shows the practical clinical implications of the Wigglesworth coding. Figure G1 is derived from the data contained in Table G2 and shows how the percentage contribution to perinatal mortality of each cause changes with birthweight group. Table G3 provides the same cross tabulations as Table G2 but uses a different definition of stillbirth based on 28 weeks gestation period. This is provided to facilitate possible local or international comparisons.

Table G1
Wigglesworth Classification for All Perinatal Deaths, 2003

| Class | Frequency | Per Cent | Cumulative Frequency | Cumulative Per Cent |
|--------------------------|-----------|----------|----------------------|---------------------|
| Macerated Stillbirths | 238 | 40.68 | 238 | 40.68 |
| Congenital Malformations | 147 | 25.13 | 385 | 65.81 |
| Immaturity | 73 | 12.48 | 458 | 78.29 |
| Asphyxial Conditions | 94 | 16.07 | 552 | 94.36 |
| Specific Conditions | 33 | 5.64 | 585 | 100.00 |

Table G2
Birthweight Specific Perinatal Mortality Rates, 2003

Wigglesworth Classification

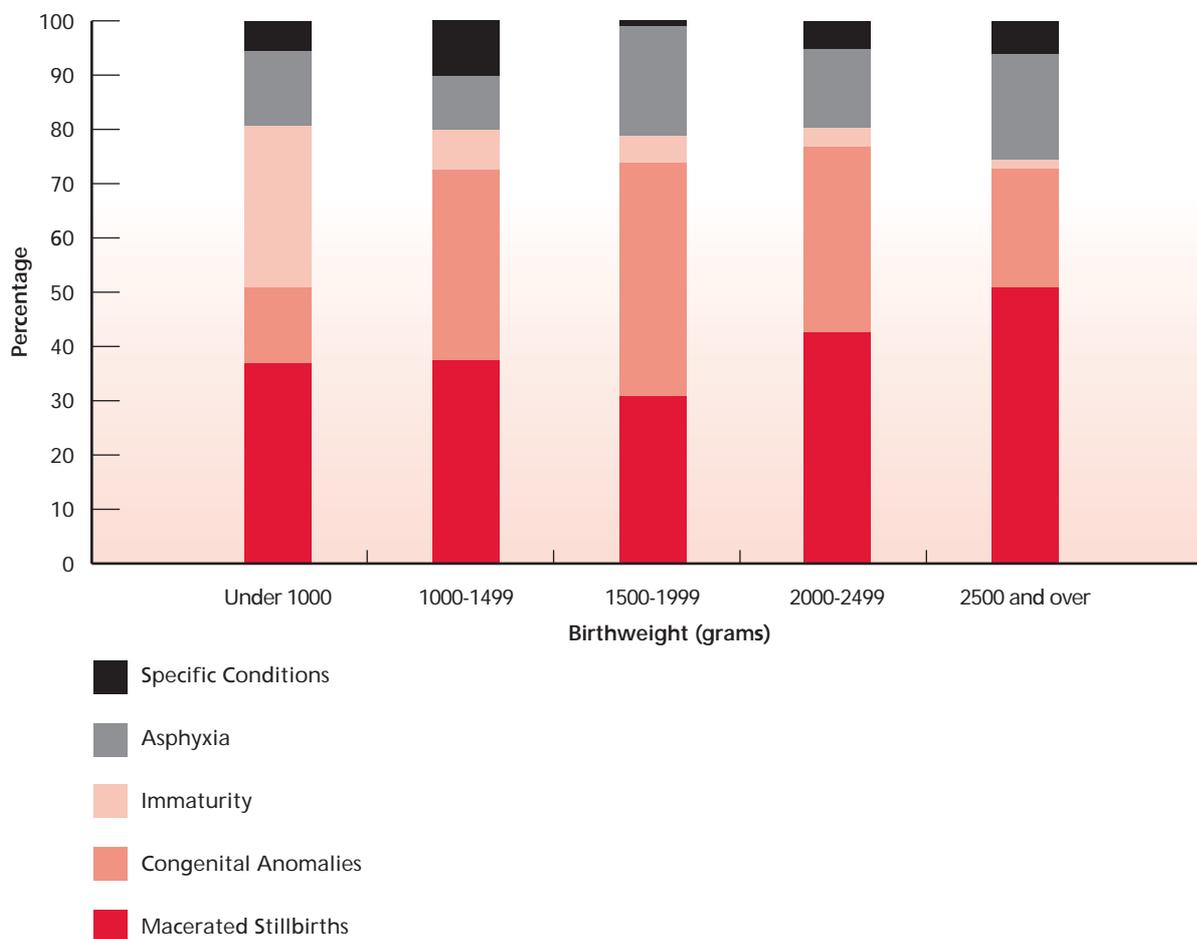
| Birthweight (grams) | Macerated Stillbirths | | Congenital Anomalies | | Immaturity | | Asphyxia | | Specific Conditions | | Total | |
|---------------------|-----------------------|-------------|----------------------|-------------|------------|-------------|-----------|-------------|---------------------|-------------|------------|-------------|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| Under 1000 | 73 | 226.71 | 29 | 90.06 | 59 | 183.23 | 28 | 86.96 | 11 | 34.16 | 200 | 621.12 |
| 1000-1499 | 29 | 80.56 | 28 | 77.78 | 5 | 13.89 | 8 | 22.22 | 8 | 22.22 | 78 | 216.67 |
| 1500-1999 | 22 | 29.37 | 31 | 41.39 | 3 | 4.01 | 15 | 20.03 | 1 | 1.34 | 72 | 96.13 |
| 2000-2499 | 23 | 11.68 | 19 | 9.65 | 2 | 1.02 | 8 | 4.06 | 3 | 1.52 | 55 | 27.93 |
| 2500 and over | 88 | 1.50 | 39 | 0.67 | 2 | 0.03 | 35 | 0.60 | 10 | 0.17 | 174 | 2.97 |
| Not Stated | 3 | 214.29 | 1 | 71.43 | 2 | 142.86 | 0 | 0.00 | 0 | 0.00 | 6 | 428.57 |
| Total | 238 | 3.84 | 147 | 2.37 | 73 | 1.18 | 94 | 1.52 | 33 | 0.53 | 585 | 9.43 |

Table G3
Numbers of Perinatal Deaths and Mortality Rates by Cause of Death and Birthweight, 2003

Wigglesworth Classification
 using the ≥ 28 weeks definition of a Stillbirth

| Birthweight (grams) | Macerated Stillbirths | | Congenital Anomalies | | Immaturity | | Asphyxia | | Specific Conditions | | Total | |
|---------------------|-----------------------|-------------|----------------------|-------------|------------|-------------|-----------|-------------|---------------------|-------------|------------|-------------|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| Under 1000 | 27 | 110.66 | 26 | 106.56 | 59 | 241.80 | 8 | 32.79 | 2 | 8.20 | 122 | 500.00 |
| 1000-1499 | 26 | 74.07 | 25 | 71.23 | 5 | 14.25 | 5 | 14.25 | 8 | 22.79 | 69 | 196.58 |
| 1500-1999 | 21 | 28.07 | 31 | 41.44 | 3 | 4.01 | 15 | 20.05 | 1 | 1.34 | 71 | 94.92 |
| 2000-2499 | 23 | 11.68 | 19 | 9.65 | 2 | 1.02 | 8 | 4.06 | 3 | 1.52 | 55 | 27.93 |
| 2500 and over | 88 | 1.50 | 39 | 0.67 | 2 | 0.03 | 35 | 0.60 | 10 | 0.17 | 174 | 2.97 |
| Not Stated | 2 | 153.85 | 1 | 76.92 | 2 | 153.85 | 0 | 0.00 | 0 | 0.00 | 5 | 384.62 |
| Total | 187 | 3.02 | 141 | 2.28 | 73 | 1.18 | 71 | 1.15 | 24 | 0.39 | 496 | 8.01 |

Figure G1
Wigglesworth Classification: Percentage Distribution of Perinatal Cause of Death by Birthweight Groups, 2003



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

Appendix H

Domiciliary Births: 1999-2003 Cross-Tabulations of Selected Variables: 2003

These births have been included, where appropriate, in the analysis presented in previous sections.

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

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

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

In 2003 the number of domiciliary births decreased to 236. Of these, there were no stillbirths and no early neonatal deaths. There were no domiciliary multiple births in 2003.

The tables that follow (H1-H8) present selected statistics on domiciliary births for 1999-2003 and contain a range of cross-tabulations relating to all domiciliary births for 2003. A full list of these tables is given in the Table of Contents. The format of each cross-tabulation is identical. The values of the two variables are given along the top row and left hand side column. The top number in each cell indicates the number of observations relating to that combination of variable values. The second number indicates the percentage contribution of that cell to the total for the whole row. The last number indicates the percentage contribution of that cell to the total for the whole column. The figures at the end of each row or column give the overall total for that row or column, and the associated percentages express each of these figures as a percentage of the grand total.

Table H1
Trends in Selected Statistics, Domiciliary Births, 1999 - 2003

| Selected Statistics | 1999 | 2000 | 2001 | 2002 | 2003 |
|--|---------|---------|---------|---------|---------|
| General Characteristics | | | | | |
| Average Age of Mother in years | 33.47 | 33.33 | 33.18 | 34.07 | 34.01 |
| Average Maternal Parity | 1.52 | 1.62 | 1.40 | 2.07 | 1.63 |
| Single Mothers (%) | 25.20 | 29.63 | 31.56 | 22.57 | 27.97 |
| Average weight in grams | | | | | |
| - Total Live Births | 3699.46 | 3726.71 | 3686.75 | 3730.06 | 3754.25 |
| Low birthweight <2500 grams (%) | | | | | |
| - Total Live Births | 0.43 | 1.86 | 0.00 | 0.35 | 0.00 |
| Average Gestational Age at delivery in weeks | 40.04 | 39.92 | 40.02 | 40.14 | 40.05 |
| Average interval since last birth in years | 3.46 | 3.40 | 3.82 | 3.74 | 3.65 |
| Perinatal Care | | | | | |
| Midwife and Hospital/GP combined antenatal care (%)* | 59.76 | 57.87 | 55.33 | 57.29 | 66.10 |
| Immunity to Rubella (%) | 92.34 | 90.70 | 93.44 | 91.61 | 94.07 |
| Mother's breastfeeding (%) | 98.25 | 96.63 | 95.02 | 94.04 | 94.07 |

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

Note:

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

Table H2
Age of Mother by Maternal Parity, 2003

Domiciliary Births

| Age of Mother | Maternal Parity | | | | | | |
|-------------------|-----------------|--------------|--------------|--------------|-------------|-------------|---------------|
| | 0 | 1 | 2 | 3 | 4 | 5 | Total |
| 15-19 Years | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 5.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.85 |
| 20-24 Years | 4 | 3 | 0 | 0 | 0 | 0 | 7 |
| | 57.14 | 42.86 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 11.43 | 3.53 | 0.00 | 0.00 | 0.00 | 0.00 | 2.97 |
| 25-29 Years | 11 | 19 | 9 | 2 | 1 | 0 | 42 |
| | 26.19 | 45.24 | 21.43 | 4.76 | 2.38 | 0.00 | |
| | 31.43 | 22.35 | 13.04 | 6.67 | 7.69 | 0.00 | 17.80 |
| 30-34 Years | 13 | 36 | 17 | 5 | 2 | 2 | 75 |
| | 17.33 | 48.00 | 22.67 | 6.67 | 2.67 | 2.67 | |
| | 37.14 | 42.35 | 24.64 | 16.67 | 15.38 | 50.00 | 31.78 |
| 35-39 Years | 5 | 18 | 34 | 17 | 7 | 2 | 83 |
| | 6.02 | 21.69 | 40.96 | 20.48 | 8.43 | 2.41 | |
| | 14.29 | 21.18 | 49.28 | 56.67 | 53.85 | 50.00 | 35.17 |
| 40-44 Years | 0 | 8 | 9 | 5 | 3 | 0 | 25 |
| | 0.00 | 32.00 | 36.00 | 20.00 | 12.00 | 0.00 | |
| | 0.00 | 9.41 | 13.04 | 16.67 | 23.08 | 0.00 | 10.59 |
| 45 Years and over | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| | 0.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | |
| | 0.00 | 0.00 | 0.00 | 3.33 | 0.00 | 0.00 | 0.42 |
| Not Stated | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | 1.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 |
| Total | 35 | 85 | 69 | 30 | 13 | 4 | 236 |
| | 14.83 | 36.02 | 29.24 | 12.71 | 5.51 | 1.69 | 100.00 |

Table H3
Age of Mother by Gestation Period at Delivery, 2003

Domiciliary Births

| Age of Mother | Gestation Period (weeks) | | | |
|-------------------|--------------------------|--------------|-------------|---------------|
| | 32-36 | 37-41 | 42 and over | Total |
| Frequency | | | | |
| Row Per Cent | | | | |
| Col. Per Cent | | | | |
| 15-19 Years | 0 | 1 | 1 | 2 |
| | 0.00 | 50.00 | 50.00 | |
| | 0.00 | 0.47 | 5.00 | 0.85 |
| 20-24 Years | 0 | 6 | 1 | 7 |
| | 0.00 | 85.71 | 14.29 | |
| | 0.00 | 2.79 | 5.00 | 2.97 |
| 25-29 Years | 1 | 40 | 1 | 42 |
| | 2.38 | 95.24 | 2.38 | |
| | 100.00 | 18.60 | 5.00 | 17.80 |
| 30-34 Years | 0 | 65 | 10 | 75 |
| | 0.00 | 86.67 | 13.33 | |
| | 0.00 | 30.23 | 50.00 | 31.78 |
| 35-39 Years | 0 | 78 | 5 | 83 |
| | 0.00 | 93.98 | 6.02 | |
| | 0.00 | 36.28 | 25.00 | 35.17 |
| 40-44 Years | 0 | 24 | 1 | 25 |
| | 0.00 | 96.00 | 4.00 | |
| | 0.00 | 11.16 | 5.00 | 10.59 |
| 45 Years and over | 0 | 1 | 0 | 1 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 0.47 | 0.00 | 0.42 |
| Not Stated | 0 | 0 | 1 | 1 |
| | 0.00 | 0.00 | 100.00 | |
| | 0.00 | 0.00 | 5.00 | 0.42 |
| Total | 1 | 215 | 20 | 236 |
| | 0.42 | 91.10 | 8.47 | 100.00 |

Table H4
Birthweight by Gestation Period at Delivery, 2003

Domiciliary Births

| Birthweight (grams) | Gestation Period (weeks) | | | |
|----------------------|--------------------------|--------------|-------------|---------------|
| | 32-36 | 37-41 | 42 and over | Total |
| Frequency | | | | |
| Row Per Cent | | | | |
| Col. Per Cent | | | | |
| 2500-2999 | 0 | 9 | 0 | 9 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 4.19 | 0.00 | 3.81 |
| 3000-3499 | 0 | 52 | 4 | 56 |
| | 0.00 | 92.86 | 7.14 | |
| | 0.00 | 24.19 | 20.00 | 23.73 |
| 3500-3999 | 1 | 92 | 8 | 101 |
| | 0.99 | 91.09 | 7.92 | |
| | 100.00 | 42.79 | 40.00 | 42.80 |
| 4000-4499 | 0 | 44 | 6 | 50 |
| | 0.00 | 88.00 | 12.00 | |
| | 0.00 | 20.47 | 30.00 | 21.19 |
| 4500 and over | 0 | 18 | 2 | 20 |
| | 0.00 | 90.00 | 10.00 | |
| | 0.00 | 8.37 | 10.00 | 8.47 |
| Total | 1 | 215 | 20 | 236 |
| | 0.42 | 91.10 | 8.47 | 100.00 |

Table H5
Mother's Occupation by Birthweight, 2003

Domiciliary Births

| Mother's Occupation | Birthweight (grams) | | | | | |
|--|---------------------|--------------|--------------|--------------|---------------|---------------|
| | 2500-2999 | 3000-3499 | 3500-3999 | 4000-4499 | 4500 and over | Total |
| Farmers & Farm Managers | 1 | 0 | 0 | 0 | 0 | 1 |
| | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 11.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 |
| Other Agricultural Occupations & Fishermen | 0 | 1 | 0 | 1 | 0 | 2 |
| | 0.00 | 50.00 | 0.00 | 50.00 | 0.00 | |
| | 0.00 | 1.79 | 0.00 | 2.00 | 0.00 | 0.85 |
| Higher-Professional | 0 | 3 | 10 | 7 | 2 | 22 |
| | 0.00 | 13.64 | 45.45 | 31.82 | 9.09 | |
| | 0.00 | 5.36 | 9.90 | 14.00 | 10.00 | 9.32 |
| Lower-Professional | 3 | 16 | 31 | 19 | 4 | 73 |
| | 4.11 | 21.92 | 42.47 | 26.03 | 5.48 | |
| | 33.33 | 28.57 | 30.69 | 38.00 | 20.00 | 30.93 |
| Managers | 0 | 2 | 3 | 1 | 0 | 6 |
| | 0.00 | 33.33 | 50.00 | 16.67 | 0.00 | |
| | 0.00 | 3.57 | 2.97 | 2.00 | 0.00 | 2.54 |
| Salaried-Employees | 0 | 1 | 0 | 0 | 1 | 2 |
| | 0.00 | 50.00 | 0.00 | 0.00 | 50.00 | |
| | 0.00 | 1.79 | 0.00 | 0.00 | 5.00 | 0.85 |
| Non-Manual Workers | 0 | 4 | 11 | 5 | 2 | 22 |
| | 0.00 | 18.18 | 50.00 | 22.73 | 9.09 | |
| | 0.00 | 7.14 | 10.89 | 10.00 | 10.00 | 9.32 |
| Other Non-Manual Workers | 0 | 4 | 7 | 3 | 2 | 16 |
| | 0.00 | 25.00 | 43.75 | 18.75 | 12.50 | |
| | 0.00 | 7.14 | 6.93 | 6.00 | 10.00 | 6.78 |
| Skilled Manual Workers | 0 | 3 | 2 | 1 | 0 | 6 |
| | 0.00 | 50.00 | 33.33 | 16.67 | 0.00 | |
| | 0.00 | 5.36 | 1.98 | 2.00 | 0.00 | 2.54 |
| Unemployed | 0 | 4 | 2 | 0 | 0 | 6 |
| | 0.00 | 66.67 | 33.33 | 0.00 | 0.00 | |
| | 0.00 | 7.14 | 1.98 | 0.00 | 0.00 | 2.54 |
| Not Classifiable | 0 | 1 | 4 | 1 | 0 | 6 |
| | 0.00 | 16.67 | 66.67 | 16.67 | 0.00 | |
| | 0.00 | 1.79 | 3.96 | 2.00 | 0.00 | 2.54 |
| Home Duties | 5 | 17 | 29 | 11 | 8 | 70 |
| | 7.14 | 24.29 | 41.43 | 15.71 | 11.43 | |
| | 55.56 | 30.36 | 28.71 | 22.00 | 40.00 | 29.66 |
| Not Stated | 0 | 0 | 2 | 1 | 1 | 4 |
| | 0.00 | 0.00 | 50.00 | 25.00 | 25.00 | |
| | 0.00 | 0.00 | 1.98 | 2.00 | 5.00 | 1.69 |
| Total | 9 | 56 | 101 | 50 | 20 | 236 |
| | 3.81 | 23.73 | 42.80 | 21.19 | 8.47 | 100.00 |

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

Table H6
Marital Status by Age of Mother, 2003

Domiciliary Births

| Marital Status | Age of Mother (Years) | | | | | | | | |
|----------------|-----------------------|-------|--------|-------|-------|-------|-------------|------------|--------|
| | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45 and over | Not Stated | Total |
| Married | 0 | 2 | 24 | 54 | 65 | 17 | 1 | 1 | 164 |
| | 0.00 | 1.22 | 14.63 | 32.93 | 39.63 | 10.37 | 0.61 | 0.61 | |
| | 0.00 | 28.57 | 57.14 | 72.00 | 78.31 | 68.00 | 100.00 | 100.00 | 69.49 |
| Single | 2 | 5 | 16 | 21 | 15 | 7 | 0 | 0 | 66 |
| | 3.03 | 7.58 | 24.24 | 31.82 | 22.73 | 10.61 | 0.00 | 0.00 | |
| | 100.00 | 71.43 | 38.10 | 28.00 | 18.07 | 28.00 | 0.00 | 0.00 | 27.97 |
| Widowed | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | 0.00 | 2.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.42 |
| Separated | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| | 0.00 | 0.00 | 50.00 | 0.00 | 50.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | 0.00 | 2.38 | 0.00 | 1.20 | 0.00 | 0.00 | 0.00 | 0.85 |
| Divorced | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 |
| | 0.00 | 0.00 | 0.00 | 0.00 | 66.67 | 33.33 | 0.00 | 0.00 | |
| | 0.00 | 0.00 | 0.00 | 0.00 | 2.41 | 4.00 | 0.00 | 0.00 | 1.27 |
| Total | 2 | 7 | 42 | 75 | 83 | 25 | 1 | 1 | 236 |
| | 0.85 | 2.97 | 17.80 | 31.78 | 35.17 | 10.59 | 0.42 | 0.42 | 100.00 |

Table H7
Father's Occupation by Infant's Type of Feeding, Live Births Only, 2003

Domiciliary Births

| Father's Occupation | Type of Feeding | | | |
|--|--------------------------|----------------------------|-------------------------|-----------------------------|
| | Artificial | Breast | Combined | Total |
| Frequency | | | | |
| Row Per Cent | | | | |
| Col. Per Cent | | | | |
| Farmers & Farm Managers | 0 0.00 0.00 | 7 100.00 3.15 | 0 0.00 0.00 | 7 2.97 |
| Other Agricultural Occupations & Fishermen | 0 0.00 0.00 | 6 100.00 2.70 | 0 0.00 0.00 | 6 2.54 |
| Higher-Professional | 1 3.03 10.00 | 32 96.97 14.41 | 0 0.00 0.00 | 33 13.98 |
| Lower-Professional | 1 2.17 10.00 | 45 97.83 20.27 | 0 0.00 0.00 | 46 19.49 |
| Managers | 1 5.00 10.00 | 19 95.00 8.56 | 0 0.00 0.00 | 20 8.47 |
| Salaried-Employees | 1 11.11 10.00 | 8 88.89 3.60 | 0 0.00 0.00 | 9 3.81 |
| Non-Manual Workers | 0 0.00 0.00 | 13 100.00 5.86 | 0 0.00 0.00 | 13 5.51 |
| Other Non-Manual Workers | 2 10.53 20.00 | 16 84.21 7.21 | 1 5.26 25.00 | 19 8.05 |
| Skilled Manual Workers | 3 4.62 30.00 | 59 90.77 26.58 | 3 4.62 75.00 | 65 27.54 |
| Semi-skilled Manual Workers | 1 14.29 10.00 | 6 85.71 2.70 | 0 0.00 0.00 | 7 2.97 |
| Unskilled Manual Workers | 0 0.00 0.00 | 1 100.00 0.45 | 0 0.00 0.00 | 1 0.42 |
| Not Classifiable | 0 0.00 0.00 | 4 100.00 1.80 | 0 0.00 0.00 | 4 1.69 |
| Not Applicable | 0 0.00 0.00 | 3 100.00 1.35 | 0 0.00 0.00 | 3 1.27 |
| Not Stated | 0 0.00 0.00 | 3 100.00 1.35 | 0 0.00 0.00 | 3 1.27 |
| Total | 10 4.24 | 222 94.07 | 4 1.69 | 236 100.00 |

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

Table H8
Mother's Occupation by Infant's Type of Feeding, Live Births Only, 2003

Domiciliary Births

| Mother's Occupation | Type of Feeding | | | |
|--|-----------------|--------------|-------------|---------------|
| | Artificial | Breast | Combined | Total |
| Frequency | | | | |
| Row Per Cent | | | | |
| Col. Per Cent | | | | |
| Farmers & Farm Managers | 0 | 1 | 0 | 1 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 0.45 | 0.00 | 0.42 |
| Other Agricultural Occupations & Fishermen | 0 | 2 | 0 | 2 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 0.90 | 0.00 | 0.85 |
| Higher-Professional | 1 | 21 | 0 | 22 |
| | 4.55 | 95.45 | 0.00 | |
| | 10.00 | 9.46 | 0.00 | 9.32 |
| Lower-Professional | 3 | 70 | 0 | 73 |
| | 4.11 | 95.89 | 0.00 | |
| | 30.00 | 31.53 | 0.00 | 30.93 |
| Managers | 0 | 6 | 0 | 6 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 2.70 | 0.00 | 2.54 |
| Salaried-Employees | 0 | 2 | 0 | 2 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 0.90 | 0.00 | 0.85 |
| Non-Manual Workers | 2 | 20 | 0 | 22 |
| | 9.09 | 90.91 | 0.00 | |
| | 20.00 | 9.01 | 0.00 | 9.32 |
| Other Non-Manual Workers | 2 | 14 | 0 | 16 |
| | 12.50 | 87.50 | 0.00 | |
| | 20.00 | 6.31 | 0.00 | 6.78 |
| Skilled Manual Workers | 0 | 5 | 1 | 6 |
| | 0.00 | 83.33 | 16.67 | |
| | 0.00 | 2.25 | 25.00 | 2.54 |
| Unemployed | 0 | 6 | 0 | 6 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 2.70 | 0.00 | 2.54 |
| Not Classifiable | 1 | 5 | 0 | 6 |
| | 16.67 | 83.33 | 0.00 | |
| | 10.00 | 2.25 | 0.00 | 2.54 |
| Home Duties | 1 | 66 | 3 | 70 |
| | 1.43 | 94.29 | 4.29 | |
| | 10.00 | 29.73 | 75.00 | 29.66 |
| Not Stated | 0 | 4 | 0 | 4 |
| | 0.00 | 100.00 | 0.00 | |
| | 0.00 | 1.80 | 0.00 | 1.69 |
| Total | 10 | 222 | 4 | 236 |
| | 4.24 | 94.07 | 1.69 | 100.00 |

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

Appendix I

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

Participation in a European Project (Euro-Peristat II Project) resulted in a review in 2006 of the formula used in the analysis of these data. To be consistent with the European standard for this variable, the following formula is being applied to this calculation:

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

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

HospDoc = first antenatal visit date (either doctor or hospital).

InfDOB = infant's date of birth.

Gestat*7 = gestation at delivery in days.

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

To facilitate trend analysis for this variable, data for the period 1999 to 2003 are presented here (and have been estimated using the formula presented above).

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

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

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 1999-2003

Singleton Births

1999

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 25,592 | 48.7 | 127 | 4.9 | 57 | 2.2 | 7.2 | 5.3 |
| 13-19 | 15,904 | 30.3 | 74 | 4.6 | 33 | 2.1 | 6.7 | 4.7 |
| 20 and over | 8,035 | 15.3 | 49 | 6.1 | 28 | 3.5 | 9.5 | 7.1 |
| Not Stated | 3,025 | 5.8 | 24 | 7.9 | 12 | 4.0 | 11.8 | 10.8 |
| Total | 52,556 | 100.0 | 274 | 5.2 | 130 | 2.5 | 7.6 | 5.7 |

2000

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 26,630 | 49.8 | 131 | 4.9 | 60 | 2.3 | 7.1 | 5.1 |
| 13-19 | 16,000 | 29.9 | 87 | 5.4 | 43 | 2.7 | 8.1 | 5.7 |
| 20 and over | 8,262 | 15.5 | 52 | 6.3 | 37 | 4.5 | 10.7 | 7.8 |
| Not Stated | 2,550 | 4.8 | 25 | 9.7 | 13 | 5.1 | 14.8 | 12.8 |
| Total | 53,442 | 100.0 | 295 | 5.5 | 153 | 2.9 | 8.3 | 6.0 |

2001

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 26,001 | 46.3 | 122 | 4.7 | 57 | 2.2 | 6.9 | 4.7 |
| 13-19 | 16,279 | 29.0 | 102 | 6.2 | 38 | 2.3 | 8.5 | 5.9 |
| 20 and over | 10,125 | 18.0 | 55 | 5.4 | 26 | 2.6 | 8.0 | 5.7 |
| Not Stated | 3,710 | 6.6 | 28 | 7.5 | 15 | 4.0 | 11.5 | 9.1 |
| Total | 56,115 | 100.0 | 307 | 5.4 | 136 | 2.4 | 7.9 | 5.5 |

2002

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 26,761 | 45.5 | 127 | 4.7 | 52 | 1.9 | 6.7 | 4.8 |
| 13-19 | 17,999 | 30.6 | 100 | 5.5 | 44 | 2.4 | 8.0 | 5.7 |
| 20 and over | 10,526 | 17.9 | 71 | 6.7 | 39 | 3.7 | 10.4 | 8.6 |
| Not Stated | 3,466 | 5.9 | 21 | 6.0 | 14 | 4.0 | 10.0 | 8.6 |
| Total | 58,752 | 100.0 | 319 | 5.4 | 149 | 2.5 | 7.9 | 6.0 |

2003

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|---------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 26,923 | 45.0 | 128 | 4.7 | 55 | 2.0 | 6.8 | 4.6 |
| 13-19 | 20,069 | 33.5 | 108 | 5.4 | 51 | 2.5 | 7.9 | 5.4 |
| 20 and over | 9,860 | 16.5 | 67 | 6.7 | 39 | 4.0 | 10.7 | 7.7 |
| Not Stated | 2,985 | 5.0 | 24 | 8.0 | 11 | 3.7 | 11.6 | 9.0 |
| Total | 59,837 | 100.0 | 327 | 5.4 | 156 | 2.6 | 8.0 | 5.6 |

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

Live Births, Stillbirths, Early Neonatal Deaths
and Mortality Rates, 1999-2003

Multiple Births

1999

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 770 | 52.6 | 6 | 7.7 | 9 | 11.7 | 19.3 | 18.1 |
| 13-19 | 385 | 26.3 | 4 | 10.3 | 7 | 18.2 | 28.3 | 28.3 |
| 20 and over | 200 | 13.7 | 4 | 19.6 | 8 | 40.0 | 58.8 | 44.8 |
| Not Stated | 108 | 7.4 | 0 | 0.0 | 3 | 27.8 | 27.8 | 27.8 |
| Total | 1,463 | 100.0 | 14 | 9.5 | 27 | 18.5 | 27.8 | 25.1 |

2000

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 698 | 48.8 | 6 | 8.5 | 9 | 12.9 | 21.3 | 14.3 |
| 13-19 | 382 | 26.7 | 4 | 10.4 | 4 | 10.5 | 20.7 | 10.5 |
| 20 and over | 224 | 15.7 | 8 | 34.5 | 6 | 26.8 | 60.3 | 48.0 |
| Not Stated | 125 | 8.7 | 2 | 15.7 | 4 | 32.0 | 47.2 | 47.2 |
| Total | 1,429 | 100.0 | 20 | 13.8 | 23 | 16.1 | 29.7 | 21.6 |

2001

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 860 | 47.6 | 19 | 21.6 | 7 | 8.1 | 29.6 | 25.1 |
| 13-19 | 511 | 28.3 | 5 | 9.7 | 8 | 15.7 | 25.2 | 17.6 |
| 20 and over | 303 | 16.8 | 8 | 25.7 | 8 | 26.4 | 51.4 | 42.2 |
| Not Stated | 133 | 7.4 | 0 | 0.0 | 1 | 7.5 | 7.5 | 7.5 |
| Total | 1,807 | 100.0 | 32 | 17.4 | 24 | 13.3 | 30.5 | 24.6 |

2002

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 820 | 46.3 | 8 | 9.7 | 10 | 12.2 | 21.7 | 21.7 |
| 13-19 | 521 | 29.4 | 9 | 17.0 | 6 | 11.5 | 28.3 | 24.6 |
| 20 and over | 297 | 16.8 | 6 | 19.8 | 5 | 16.8 | 36.3 | 36.3 |
| Not Stated | 132 | 7.5 | 1 | 7.5 | 0 | 0.0 | 7.5 | 7.5 |
| Total | 1,770 | 100.0 | 24 | 13.4 | 21 | 11.9 | 25.1 | 24.0 |

2003

| Time of First Visit (Weeks) | Live Births | Per Cent (%) Live Births | Stillbirths | Stillbirth Rate | Early Neonatal Deaths | Early Neonatal Rate | Perinatal Mortality Rate | Adjusted PMR |
|-----------------------------|--------------|--------------------------|-------------|-----------------|-----------------------|---------------------|--------------------------|--------------|
| 0-12 | 897 | 50.0 | 12 | 13.2 | 10 | 11.1 | 24.2 | 22.1 |
| 13-19 | 568 | 31.6 | 14 | 24.1 | 6 | 10.6 | 34.4 | 34.4 |
| 20 and over | 211 | 11.8 | 1 | 4.7 | 1 | 4.7 | 9.4 | 9.4 |
| Not Stated | 119 | 6.6 | 3 | 24.6 | 4 | 33.6 | 57.4 | 49.6 |
| Total | 1,795 | 100.0 | 30 | 16.4 | 21 | 11.7 | 27.9 | 26.3 |

Table I3

**Marital Status by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy,
Live Births and Stillbirths, 1999-2003**

Singleton Births

1999

| Marital Status | Gestational Age at First Visit (weeks) | | | | |
|----------------|--|---------------|--------------|--------------|---------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Married | 18,625 | 10,447 | 4,527 | 2,469 | 36,068 |
| | 51.64 | 28.96 | 12.55 | 6.85 | |
| | 72.42 | 65.38 | 56.00 | 80.98 | 68.27 |
| Single | 6,644 | 5,232 | 3,360 | 513 | 15,749 |
| | 42.19 | 33.22 | 21.33 | 3.26 | |
| | 25.83 | 32.75 | 41.56 | 16.83 | 29.81 |
| Widowed | 33 | 20 | 13 | 3 | 69 |
| | 47.83 | 28.99 | 18.84 | 4.35 | |
| | 0.13 | 0.13 | 0.16 | 0.10 | 0.13 |
| Separated | 364 | 248 | 164 | 27 | 803 |
| | 45.33 | 30.88 | 20.42 | 3.36 | |
| | 1.42 | 1.55 | 2.03 | 0.89 | 1.52 |
| Divorced | 47 | 25 | 17 | 2 | 91 |
| | 51.65 | 27.47 | 18.68 | 2.20 | |
| | 0.18 | 0.16 | 0.21 | 0.07 | 0.17 |
| Not Stated | 6 | 6 | 3 | 35 | 50 |
| | 12.00 | 12.00 | 6.00 | 70.00 | |
| | 0.02 | 0.04 | 0.04 | 1.15 | 0.09 |
| Total | 25,719 | 15,978 | 8,084 | 3,049 | 52,830 |
| | 48.68 | 30.24 | 15.30 | 5.77 | 100.00 |

2000

| Marital Status | Gestational Age at First Visit (weeks) | | | | |
|----------------|--|---------------|--------------|--------------|---------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Married | 19,232 | 10,351 | 4,762 | 2,108 | 36,453 |
| | 52.76 | 28.40 | 13.06 | 5.78 | |
| | 71.87 | 64.34 | 57.28 | 81.86 | 67.84 |
| Single | 7,067 | 5,409 | 3,328 | 430 | 16,234 |
| | 43.53 | 33.32 | 20.50 | 2.65 | |
| | 26.41 | 33.62 | 40.03 | 16.70 | 30.21 |
| Widowed | 32 | 19 | 18 | 3 | 72 |
| | 44.44 | 26.39 | 25.00 | 4.17 | |
| | 0.12 | 0.12 | 0.22 | 0.12 | 0.13 |
| Separated | 357 | 270 | 174 | 23 | 824 |
| | 43.33 | 32.77 | 21.12 | 2.79 | |
| | 1.33 | 1.68 | 2.09 | 0.89 | 1.53 |
| Divorced | 73 | 38 | 29 | 7 | 147 |
| | 49.66 | 25.85 | 19.73 | 4.76 | |
| | 0.27 | 0.24 | 0.35 | 0.27 | 0.27 |
| Not Stated | 0 | 0 | 3 | 4 | 7 |
| | 0.00 | 0.00 | 42.86 | 57.14 | |
| | 0.00 | 0.00 | 0.04 | 0.16 | 0.01 |
| Total | 26,761 | 16,087 | 8,314 | 2,575 | 53,737 |
| | 49.80 | 29.94 | 15.47 | 4.79 | 100.00 |

Table I3 Continued

Marital Status by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy,
Live Births and Stillbirths, 1999-2003

Singleton Births

2001

| Marital Status | Gestational Age at First Visit (weeks) | | | | |
|--|--|---------------|---------------|--------------|---------------|
| Frequency Row Per Cent Col. Per Cent | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Married | 18,800 | 10,477 | 5,944 | 3,187 | 38,408 |
| | 48.95 | 27.28 | 15.48 | 8.30 | |
| | 71.97 | 63.96 | 58.39 | 85.26 | 68.07 |
| Single | 6,927 | 5,607 | 4,032 | 515 | 17,081 |
| | 40.55 | 32.83 | 23.61 | 3.02 | |
| | 26.52 | 34.23 | 39.61 | 13.78 | 30.27 |
| Widowed | 33 | 20 | 24 | 5 | 82 |
| | 40.24 | 24.39 | 29.27 | 6.10 | |
| | 0.13 | 0.12 | 0.24 | 0.13 | 0.15 |
| Separated | 306 | 230 | 150 | 25 | 711 |
| | 43.04 | 32.35 | 21.10 | 3.52 | |
| | 1.17 | 1.40 | 1.47 | 0.67 | 1.26 |
| Divorced | 57 | 47 | 29 | 3 | 136 |
| | 41.91 | 34.56 | 21.32 | 2.21 | |
| | 0.22 | 0.29 | 0.28 | 0.08 | 0.24 |
| Not Stated | 0 | 0 | 1 | 3 | 4 |
| | 0.00 | 0.00 | 25.00 | 75.00 | |
| | 0.00 | 0.00 | 0.01 | 0.08 | 0.01 |
| Total | 26,123 | 16,381 | 10,180 | 3,738 | 56,422 |
| | 46.30 | 29.03 | 18.04 | 6.63 | 100.00 |

2002

| Marital Status | Gestational Age at First Visit (weeks) | | | | |
|--|--|---------------|---------------|--------------|---------------|
| Frequency Row Per Cent Col. Per Cent | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Married | 19,239 | 11,540 | 6,444 | 3,086 | 40,309 |
| | 47.73 | 28.63 | 15.99 | 7.66 | |
| | 71.55 | 63.76 | 60.81 | 88.50 | 68.24 |
| Single | 7,249 | 6,231 | 3,946 | 379 | 17,805 |
| | 40.71 | 35.00 | 22.16 | 2.13 | |
| | 26.96 | 34.43 | 37.24 | 10.87 | 30.14 |
| Widowed | 30 | 28 | 20 | 1 | 79 |
| | 37.97 | 35.44 | 25.32 | 1.27 | |
| | 0.11 | 0.15 | 0.19 | 0.03 | 0.13 |
| Separated | 299 | 245 | 151 | 14 | 709 |
| | 42.17 | 34.56 | 21.30 | 1.97 | |
| | 1.11 | 1.35 | 1.42 | 0.40 | 1.20 |
| Divorced | 71 | 54 | 32 | 5 | 162 |
| | 43.83 | 33.33 | 19.75 | 3.09 | |
| | 0.26 | 0.30 | 0.30 | 0.14 | 0.27 |
| Not Stated | 0 | 1 | 4 | 2 | 7 |
| | 0.00 | 14.29 | 57.14 | 28.57 | |
| | 0.00 | 0.01 | 0.04 | 0.06 | 0.01 |
| Total | 26,888 | 18,099 | 10,597 | 3,487 | 59,071 |
| | 45.52 | 30.64 | 17.94 | 5.90 | 100.00 |

Table I3 Continued

Marital Status by Gestational Age at Time of First Visit to Doctor or Hospital During Pregnancy,
Live Births and Stillbirths, 1999-2003

Singleton Births

2003

| Marital Status | Gestational Age at First Visit (weeks) | | | | |
|----------------|--|---------------|--------------|--------------|---------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| Married | 19,584 | 12,868 | 5,916 | 2,621 | 40,989 |
| | 47.78 | 31.39 | 14.43 | 6.39 | |
| | 72.40 | 63.78 | 59.60 | 87.11 | 68.13 |
| Single | 7,105 | 6,990 | 3,784 | 360 | 18,239 |
| | 38.95 | 38.32 | 20.75 | 1.97 | |
| | 26.27 | 34.64 | 38.12 | 11.96 | 30.32 |
| Widowed | 30 | 12 | 18 | 1 | 61 |
| | 49.18 | 19.67 | 29.51 | 1.64 | |
| | 0.11 | 0.06 | 0.18 | 0.03 | 0.10 |
| Separated | 242 | 239 | 170 | 20 | 671 |
| | 36.07 | 35.62 | 25.34 | 2.98 | |
| | 0.89 | 1.18 | 1.71 | 0.66 | 1.12 |
| Divorced | 89 | 68 | 36 | 5 | 198 |
| | 44.95 | 34.34 | 18.18 | 2.53 | |
| | 0.33 | 0.34 | 0.36 | 0.17 | 0.33 |
| Not Stated | 1 | 0 | 3 | 2 | 6 |
| | 16.67 | 0.00 | 50.00 | 33.33 | |
| | 0.00 | 0.00 | 0.03 | 0.07 | 0.01 |
| Total | 27,051 | 20,177 | 9,927 | 3,009 | 60,164 |
| | 44.96 | 33.54 | 16.50 | 5.00 | 100.00 |

Table 14
Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital
During Pregnancy, Live Births and Stillbirths, 1999-2003
Singleton Births

1999

| Interval Since Last Birth | Gestational Age at First Visit (weeks) | | | | |
|-----------------------------------|--|---------------|--------------|--------------|---------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| No Previous Births | 11,178 | 6,378 | 3,002 | 1,120 | 21,678 |
| | 51.56 | 29.42 | 13.85 | 5.17 | |
| | 43.46 | 39.92 | 37.14 | 36.73 | 41.03 |
| 1 year or less | 170 | 114 | 158 | 56 | 498 |
| | 34.14 | 22.89 | 31.73 | 11.24 | |
| | 0.66 | 0.71 | 1.95 | 1.84 | 0.94 |
| >1 year to 2 years | 2,990 | 2,278 | 1,485 | 486 | 7,239 |
| | 41.30 | 31.47 | 20.51 | 6.71 | |
| | 11.63 | 14.26 | 18.37 | 15.94 | 13.70 |
| >2 years to 3 years | 3,762 | 2,483 | 1,159 | 492 | 7,896 |
| | 47.64 | 31.45 | 14.68 | 6.23 | |
| | 14.63 | 15.54 | 14.34 | 16.14 | 14.95 |
| >3 years to 4 years | 2,520 | 1,534 | 760 | 268 | 5,082 |
| | 49.59 | 30.18 | 14.95 | 5.27 | |
| | 9.80 | 9.60 | 9.40 | 8.79 | 9.62 |
| >4 years to 5 years | 1,548 | 983 | 410 | 169 | 3,110 |
| | 49.77 | 31.61 | 13.18 | 5.43 | |
| | 6.02 | 6.15 | 5.07 | 5.54 | 5.89 |
| >5 years to 6 years | 976 | 611 | 296 | 93 | 1,976 |
| | 49.39 | 30.92 | 14.98 | 4.71 | |
| | 3.79 | 3.82 | 3.66 | 3.05 | 3.74 |
| More than 6 years | 2,425 | 1,490 | 687 | 227 | 4,829 |
| | 50.22 | 30.86 | 14.23 | 4.70 | |
| | 9.43 | 9.33 | 8.50 | 7.45 | 9.14 |
| Number of Previous Births Unknown | 1 | 3 | 0 | 14 | 18 |
| | 5.56 | 16.67 | 0.00 | 77.78 | |
| | 0.00 | 0.02 | 0.00 | 0.46 | 0.03 |
| Not Stated | 149 | 104 | 127 | 124 | 504 |
| | 29.56 | 20.63 | 25.20 | 24.60 | |
| | 0.58 | 0.65 | 1.57 | 4.07 | 0.95 |
| Total | 25,719 | 15,978 | 8,084 | 3,049 | 52,830 |
| | 48.68 | 30.24 | 15.30 | 5.77 | 100.00 |

Table I4 Continued

Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital
During Pregnancy, Live Births and Stillbirths, 1999-2003

Singleton Births

2000

| Interval Since Last Birth | Gestational Age at First Visit (weeks) | | | | |
|---------------------------|--|---------------|--------------|--------------|---------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| No Previous Births | 11,437 | 6,404 | 3,175 | 1,010 | 22,026 |
| | 51.92 | 29.07 | 14.41 | 4.59 | |
| | 42.74 | 39.81 | 38.19 | 39.22 | 40.99 |
| 1 year or less | 171 | 128 | 145 | 31 | 475 |
| | 36.00 | 26.95 | 30.53 | 6.53 | |
| | 0.64 | 0.80 | 1.74 | 1.20 | 0.88 |
| >1 year to 2 years | 3,239 | 2,252 | 1,414 | 404 | 7,309 |
| | 44.32 | 30.81 | 19.35 | 5.53 | |
| | 12.10 | 14.00 | 17.01 | 15.69 | 13.60 |
| >2 years to 3 years | 4,058 | 2,440 | 1,198 | 408 | 8,104 |
| | 50.07 | 30.11 | 14.78 | 5.03 | |
| | 15.16 | 15.17 | 14.41 | 15.84 | 15.08 |
| >3 years to 4 years | 2,699 | 1,626 | 744 | 239 | 5,308 |
| | 50.85 | 30.63 | 14.02 | 4.50 | |
| | 10.09 | 10.11 | 8.95 | 9.28 | 9.88 |
| >4 years to 5 years | 1,582 | 977 | 463 | 128 | 3,150 |
| | 50.22 | 31.02 | 14.70 | 4.06 | |
| | 5.91 | 6.07 | 5.57 | 4.97 | 5.86 |
| >5 years to 6 years | 1,016 | 637 | 301 | 82 | 2,036 |
| | 49.90 | 31.29 | 14.78 | 4.03 | |
| | 3.80 | 3.96 | 3.62 | 3.18 | 3.79 |
| More than 6 years | 2,435 | 1,522 | 773 | 185 | 4,915 |
| | 49.54 | 30.97 | 15.73 | 3.76 | |
| | 9.10 | 9.46 | 9.30 | 7.18 | 9.15 |
| Not Stated | 124 | 101 | 101 | 88 | 414 |
| | 29.95 | 24.40 | 24.40 | 21.26 | |
| | 0.46 | 0.63 | 1.21 | 3.42 | 0.77 |
| Total | 26,761 | 16,087 | 8,314 | 2,575 | 53,737 |
| | 49.80 | 29.94 | 15.47 | 4.79 | 100.00 |

Table I4 Continued

Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital
During Pregnancy, Live Births and Stillbirths, 1999-2003

Singleton Births

2001

| Interval Since Last Birth | Gestational Age at First Visit (weeks) | | | | |
|-----------------------------------|--|-------------------------------|-------------------------------|-----------------------------|--------------------------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| No Previous Births | 11,148 48.06 42.68 | 6,476 27.92 39.53 | 4,137 17.83 40.64 | 1,436 6.19 38.42 | 23,197 41.11 |
| 1 year or less | 181 31.42 0.69 | 159 27.60 0.97 | 203 35.24 1.99 | 33 5.73 0.88 | 576 1.02 |
| >1 year to 2 years | 3,093 41.30 11.84 | 2,203 29.41 13.45 | 1,585 21.16 15.57 | 609 8.13 16.29 | 7,490 13.27 |
| >2 years to 3 years | 3,926 46.56 15.03 | 2,506 29.72 15.30 | 1,400 16.60 13.75 | 600 7.12 16.05 | 8,432 14.94 |
| >3 years to 4 years | 2,685 48.55 10.28 | 1,661 30.04 10.14 | 827 14.95 8.12 | 357 6.46 9.55 | 5,530 9.80 |
| >4 years to 5 years | 1,689 48.00 6.47 | 1,075 30.55 6.56 | 554 15.74 5.44 | 201 5.71 5.38 | 3,519 6.24 |
| >5 years to 6 years | 998 46.01 3.82 | 661 30.47 4.04 | 393 18.12 3.86 | 117 5.39 3.13 | 2,169 3.84 |
| More than 6 years | 2,286 45.83 8.75 | 1,536 30.79 9.38 | 929 18.62 9.13 | 237 4.75 6.34 | 4,988 8.84 |
| Number of Previous Births Unknown | 4 28.57 0.02 | 2 14.29 0.01 | 4 28.57 0.04 | 4 28.57 0.11 | 14 0.02 |
| Not Stated | 113 22.29 0.43 | 102 20.12 0.62 | 148 29.19 1.45 | 144 28.40 3.85 | 507 0.90 |
| Total | 26,123 46.30 | 16,381 29.03 | 10,180 18.04 | 3,738 6.63 | 56,422 100.00 |

Table I4 Continued

Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital
During Pregnancy, Live Births and Stillbirths, 1999-2003

Singleton Births

2002

| Interval Since Last Birth | Gestational Age at First Visit (weeks) | | | | |
|-----------------------------------|--|-------------------------|-------------------------|------------------------|-------------------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| No Previous Births | 11,392 47.16 42.37 | 7,212 29.85 39.85 | 4,194 17.36 39.58 | 1,359 5.63 38.97 | 24,157 40.89 |
| 1 year or less | 166 31.92 0.62 | 144 27.69 0.80 | 172 33.08 1.62 | 38 7.31 1.09 | 520 0.88 |
| >1 year to 2 years | 3,214 40.05 11.95 | 2,469 30.77 13.64 | 1,833 22.84 17.30 | 509 6.34 14.60 | 8,025 13.59 |
| >2 years to 3 years | 4,004 46.25 14.89 | 2,731 31.55 15.09 | 1,360 15.71 12.83 | 562 6.49 16.12 | 8,657 14.66 |
| >3 years to 4 years | 2,708 47.99 10.07 | 1,772 31.40 9.79 | 833 14.76 7.86 | 330 5.85 9.46 | 5,643 9.55 |
| >4 years to 5 years | 1,758 47.23 6.54 | 1,148 30.84 6.34 | 616 16.55 5.81 | 200 5.37 5.74 | 3,722 6.30 |
| >5 years to 6 years | 1,060 44.69 3.94 | 791 33.35 4.37 | 418 17.62 3.94 | 103 4.34 2.95 | 2,372 4.02 |
| More than 6 years | 2,452 45.39 9.12 | 1,716 31.77 9.48 | 1,025 18.97 9.67 | 209 3.87 5.99 | 5,402 9.14 |
| Number of Previous Births Unknown | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 2 100.00 0.06 | 2 0.00 |
| Not Stated | 134 23.47 0.50 | 116 20.32 0.64 | 146 25.57 1.38 | 175 30.65 5.02 | 571 0.97 |
| Total | 26,888 45.52 | 18,099 30.64 | 10,597 17.94 | 3,487 5.90 | 59,071 100.00 |

Table I4 Continued

Interval in Years Since Last Birth by Gestational Age at Time of First Visit to Doctor or Hospital
During Pregnancy, Live Births and Stillbirths, 1999-2003

Singleton Births

2003

| Interval Since Last Birth | Gestational Age at First Visit (weeks) | | | | |
|-----------------------------------|--|-------------------------------|------------------------------|-----------------------------|--------------------------------|
| | 0-12 | 13-19 | 20 and over | Not Stated | Total |
| Frequency | | | | | |
| Row Per Cent | | | | | |
| Col. Per Cent | | | | | |
| No Previous Births | 11,308 46.24 41.80 | 8,062 32.97 39.96 | 3,937 16.10 39.66 | 1,149 4.70 38.19 | 24,456 40.65 |
| 1 year or less | 180 32.03 0.67 | 183 32.56 0.91 | 181 32.21 1.82 | 18 3.20 0.60 | 562 0.93 |
| >1 year to 2 years | 3,593 41.41 13.28 | 2,899 33.41 14.37 | 1,755 20.23 17.68 | 430 4.96 14.29 | 8,677 14.42 |
| >2 years to 3 years | 4,066 45.32 15.03 | 3,041 33.89 15.07 | 1,382 15.40 13.92 | 483 5.38 16.05 | 8,972 14.91 |
| >3 years to 4 years | 2,687 47.30 9.93 | 1,922 33.83 9.53 | 805 14.17 8.11 | 267 4.70 8.87 | 5,681 9.44 |
| >4 years to 5 years | 1,704 47.73 6.30 | 1,226 34.34 6.08 | 487 13.64 4.91 | 153 4.29 5.08 | 3,570 5.93 |
| >5 years to 6 years | 1,094 46.99 4.04 | 808 34.71 4.00 | 324 13.92 3.26 | 102 4.38 3.39 | 2,328 3.87 |
| More than 6 years | 2,305 43.49 8.52 | 1,909 36.02 9.46 | 914 17.25 9.21 | 172 3.25 5.72 | 5,300 8.81 |
| Number of Previous Births Unknown | 0 0.00 0.00 | 0 0.00 0.00 | 0 0.00 0.00 | 2 100.00 0.07 | 2 0.00 |
| Not Stated | 114 18.51 0.42 | 127 20.62 0.63 | 142 23.05 1.43 | 233 37.82 7.74 | 616 1.02 |
| Total | 27,051 44.96 | 20,177 33.54 | 9,927 16.50 | 3,009 5.00 | 60,164 100.00 |



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