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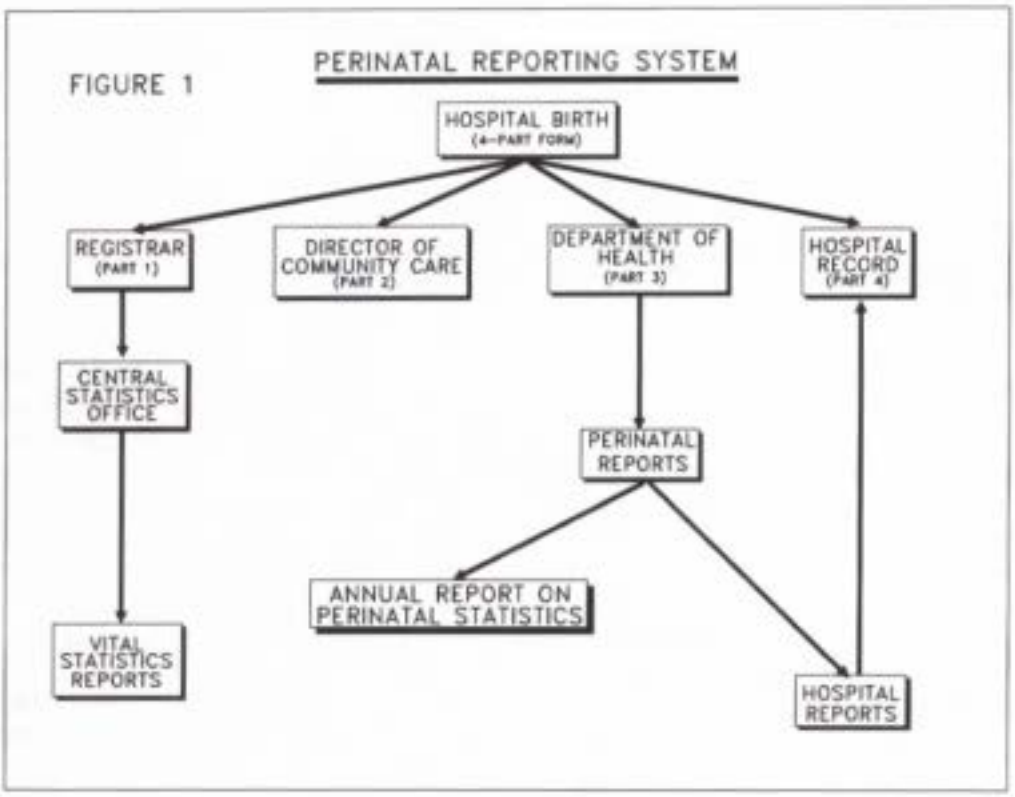
INTRODUCTION

AIMS

This report of the Perinatal Reporting System (PRS) has as its principal aim the provision of national statistics on perinatal events and follows the same format as previously. More specifically, the purposes of the report are to describe 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 (see Figure 2), 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. The present report refers to the year 1992 and has 100% national coverage of all live and still births.

The report contains what might be considered a minimum national data set and is intended to serve as a foundation for the development of basic time series and to allow for the possible addition of further variables and more extensive analysis in future years. It is hoped that the publication of this data 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.



DEVELOPMENT OF THE PERINATAL REPORTING SYSTEM

The need to rationalise data collection systems on childbirth became increasingly evident during the 1970's. Prior to the current system, hospitals used a standard form for the registration of live births; a second form completed by the hospital provided statistical information on those births to the Central Statistics Office (CSO); a third form was employed to notify late fetal deaths to health boards and to the CSO; and a variety of non-standard forms were in use to provide for the notification of births to the appropriate health board authorities as soon as possible after the birth. The decision was taken to devise an integrated system to provide on one form for the registration and notification of births and for the informational requirements of all those involved in perinatal care including the provision of basic perinatal statistics for research and planning purposes. A four-part form was designed and printed on self-copying paper, and pilot tests were carried out to ascertain the feasibility of the scheme. The next step involved the gradual extension of the scheme across the country and the parallel development of systems for data collection, computerisation and reporting. In March 1981, a Steering Committee was set up to supervise the extension of the scheme into a comprehensive national system. On the committee were represented the Institute of Obstetricians and Gynaecologists, the Irish Perinatal Society, the health boards, the Medico-Social Research Board, maternity hospitals, the Central Statistics Office, the Central Computing Service, and the Department of Health. By 1982, the Perinatal Reporting System covered approximately 64% of all births; the first report of the PRS which referred to 1984 had 94% coverage; and complete national coverage has now been achieved.

DATA COLLECTION

Births are registered and notified on a standard, four-part form. 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 of the area of residence of the mother. It serves the dual purpose of notifying the local medical and nursing services which have responsibility for the postnatal care of the mother and child and of providing the basis for the health records used by the health boards. The third part of the form has all identifying information deleted and is sent to the Department of Health. The fourth and final copy is retained by the hospital. Figure 1 gives a diagrammatic view of the information system. Domiciliary births are notified on a special two-part form. Both parts go to the local Registrar of births and the second copy is sent subsequently to the Central Statistics Office and to the Department of Health. All the tables in the present report are based on data contained on the third copy of the standard form and on the second copy of the domiciliary form (see Appendix A) as are the reports which are sent to the maternity hospitals.

DATA PROCESSING

Coding of the forms takes place in the Department of Health. Checks are carried out to ensure the completeness of returns, and special efforts are made in this respect in the case of a stillbirth or early neonatal death. Occupations are coded according to the Central Statistics Office system of socio-economic group classification (see Appendix B). Diseases 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 C). The data are entered onto computer by a private company and the file is then transferred to the Information Management Unit for validation, processing and the production of reports (see Figure 1). The system is run on a number of high specification PCs and reports and analyses are carried out using Statistical Analysis System (SAS) software.

FORMAT AND CONTENTS

This report presents a basic set of national tabulations for perinatal events for 1992 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 is set out in four main sections: A) Selected Trends B) General Characteristics, C) Perinatal Care and D) Perinatal Outcomes. The first section documents significant trends in the principal variables since 1986. Section B contains tables relating to the following variables: maternal age, parity, marital status, socio-economic group of mother based on occupation of father, distribution of previous stillbirths, birthweight (by sex), twinning rate, gestational age, interval since last birth, and month of birth. Section C deals with variables which fall more naturally into the category of use of health care facilities and type of care received and deals with the following distributions: gestational age at first antenatal contact of the mother with the health services, type of antenatal care received, number of antenatal days stay by the mother, number of postnatal days stay by the mother, mother's immunity to rubella, method of delivery, whether hospital admission was booked or unbooked, type of feeding, transfer of infants between hospitals, and classification of outcome according to size of maternity unit. In Section D 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 postmortem examinations, and the length of infant's stay in hospital. It should be noted that Sections B, C and D are each divided into two parts with Part 1 dealing with singleton births and Part 2 dealing with multiple births. A number of cross-tabulations of selected variables of importance are contained in Appendix D, and many of the graphs in the report are based on data abstracted from these tables. Finally an appendix is included giving an analysis of perinatal deaths for 1992 according to the classification system suggested by Dr. J.S. Wigglesworth. This system sets out five general and mutually exclusive cause of death

categories designed to provide for relatively straightforward classification and to identify problem areas with implications for the clinical management of patients. The classification criteria as well as the results are set out in Appendix E.

DEFINITIONS

OUTCOMES AND RATES:

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

STILLBIRTH (SB) AND STILLBIRTH RATE: Fetal 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 pregnancy. A fetal death is indicated by the fact that, after separation, the fetus 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 fetus weighing at least 500 grammes. The stillbirth rate is given as follows:

$$\frac{\text{Number of Stillbirths x 1,000}}{\text{Total Number of Live births and Stillbirths}}$$

EARLY NEONATAL DEATH (ENND) AND EARLY NEONATAL MORTALITY RATE: An early neonatal death refers to the death of a liveborn infant during the first week of life. The early neonatal mortality rate is calculated as follows:

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

PERINATAL DEATH AND PERINATAL MORTALITY RATE (PMR): Perinatal deaths include stillbirths and early neonatal deaths. The perinatal mortality rate (PMR) is calculated as follows:

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

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

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.

OTHER TERMS: The definitions given below relate to the principal classification variables contained in the main sections 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.

B) GENERAL CHARACTERISTICS:

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

MARITAL STATUS: Four categories are recognised as detailed below:

i) **Married:** includes all married women and women who have been widowed for ten months or less.

ii) **Single:** including women with civil annulments and women who have been widowed for more than ten months.

iii) **Separated:** covers the following categories:
   a) Deserted.
   b) Legally separated.
   c) Church decree of nullity.
   d) Otherwise separated.

iv) **Divorced:** This means divorced in another country.

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 B.

BIRTHWEIGHT: Birthweight is given in grammes and hospitals are asked to record the weight within the first hour after birth. In accordance with WHO guidelines, infants weighing under 500 grammes 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 or still birth.

C) 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: Five 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
v) Caesarean section.

HOSPITAL ADMISSION BOOKED OR UNBOOKED: Domiciliary births are not included in the tables relating to this variable.

TYPE OF FEEDING: Indicates whether artificial or breast feeding was being used at the time of discharge.

TRANSFER OF INFANTS: This identifies infants who were transferred to another hospital for medical reasons prior to the completion of the seventh day of life.

SIZE OF MATERNITY UNIT: Size in this context refers to the number of perinatal events occurring during the year.

D) 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 fetus. In assigning causes 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 C.

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.

POSTMORTEM: This indicates whether or not a postmortem examination was performed. In some cases a return of 'Not Stated' may be due to the notification form being returned prior to postmortem.

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 prior to the completion of seven days of life, 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: Where the frequency for a variable level is zero, that level is not included in the tables. This arises most frequently in relation to multiple births.

COMPLETENESS AND RELIABILITY

COVERAGE:

The Perinatal Reporting System has complete national coverage. This statement must however be qualified in relation to late fetal deaths where comparisons with Central Statistics Office figures indicate that approximately 5% of stillbirths may be missed by the system. In addition to the standard notification form (see Appendix A), the CSO collects a separate Late Fetal Notification Form (Form 103), and the present estimate of missing data is based on the number of unmatched cases of Form 103.

MISSING VALUES:

No attempt has been made to assign values to missing data, and they are included as a separate category in each table. Certain variables show high proportions of not stated cases, and efforts are continually being made to improve this aspect of the system. These efforts are particularly directed towards missing data associated with high

mortality rates. The results for 1992 indicate that further reductions in the levels of missing data have been achieved for a number of variables.

ACCURACY:

While computer validation can identify illogical or unacceptable data, it cannot detect information which, though valid, is inaccurate. For example, during the initial stages of the notification scheme, it was found that a question on the smoking habits of the mother yielded very unreliable information and was subsequently dropped from the notification form. Information on the county of residence of the mother can also be inaccurate since in safeguarding confidentiality the copy of the notification form received by the Department of Health does not contain the mother's full address but only the county designation (see Appendix A). Data entered in this space has been found to be often incorrect referring frequently to the county in which the birth occurred. Analysis of mother's county of residence is therefore not included in this report. Efforts are currently in progress to improve this and other aspects of data quality (see FUTURE REPORTS below).

DISCREPANCIES WITH CSO DATA:

Differences between the vital statistics tables compiled by the CSO and the present results arise for a variety of reasons. In the first place, information is not always obtained from the same sources. This is particularly evident in the tabulations regarding cause of death. The CSO does not obtain information on maternal diseases or conditions affecting the infant or fetus while the Department of Health for its part 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 fetal deaths from which it identifies approximately 5% more late fetal deaths than those notified through the PRS alone. Secondly, differences in definitions and coding procedures can be reflected in the published statistics. The ICD coding procedures are recognised to be particularly difficult and subjective in the area of causes of perinatal mortality and the current separate coding arrangements can therefore lead to significant discrepancies. The CSO also employs a somewhat different definition of a late fetal death from that used by the PRS which is reflected in slightly differing perinatal and late fetal numbers and rates. Ideally the data sources and data coding should be harmonised between the two systems, and it is felt that the best way of attaining this goal is through the computerisation of the birth registration system and the consequent elimination of duplicate paperwork, coding and validation. This project is now in progress.

FUTURE REPORTS AND IMPROVEMENTS:

The minimum perinatal data set contained in this report is intended to serve as a foundation for the monitoring of perinatal health. In order to do this effectively the data must be accurate, comprehensive and up-to-date. While the present report can point to further progress in the reduction of levels of 'Not Stated' data, it is only through the implementation of the projected computerised registration and notification system that optimum data quality and timeliness will be achieved.

GENERAL TRENDS AND INTERNATIONAL COMPARISONS:*

PERINATAL MORTALITY:

The last twenty-five years have witnessed a quite dramatic decline in infant, neonatal, and perinatal mortality in Ireland. Between 1965 and 1981 the perinatal mortality rate fell by more than half from 30 deaths per 1,000 live and still births to 13.4. From 1981 until 1984 the rate remained almost static but since then it resumed its decline to 11.8 in 1986 and 10.4 in 1987 before rising slightly to 11.3 in 1988. Figures for 1989, 1990 and 1991 show a decline to 10.4, 10.2 and 9.5 respectively per 1,000 live and still births and the provisional figure for 1992 indicates a further decline to 9.3 (Figure 2). The factors which determine 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. Tables 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 3. In comparisons between countries it should be remembered that rates can be affected by national policies on abortion as well as by differences in the comprehensiveness and accuracy of registration and notification systems.

BIRTH RATE:

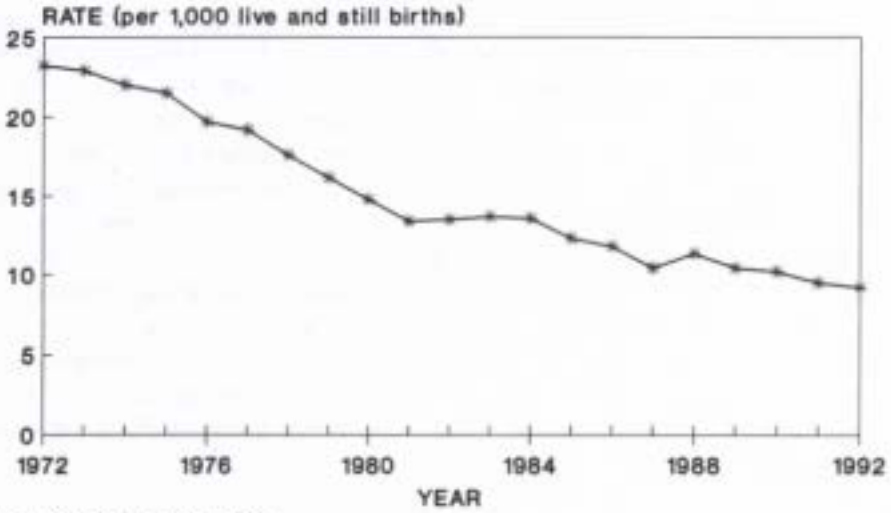
The birth rate for 1989 at 14.8 per 1,000 population was at the time the lowest ever recorded having progressively fallen from a figure of 21.8 in 1980. However in 1990 the rate rose, for the first time in ten years, to 15.1. Provisional data for subsequent years indicate a further decline to 13.4 in 1994 followed by a slight increase in 1995 to 13.5 (Figure 4). Figure 5 shows trends in birth rates for selected EU countries in recent years and provides evidence that Ireland has been gradually approaching rates experienced in other EU countries. Even with the very significant fall in the birth rate during the last decade, the rate for Ireland still remains substantially higher than any other EU country (Figure 6).

FERTILITY:

Figure 7 shows the trend in the Total Period Fertility Rate (TPFR) in Ireland over the past 15 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 TPFR has declined from an average of nearly four children in 1972 to approximately 2.0 in 1992. This is below the level required for the long term replacement of the population in the absence of any net inward migration. Again, as with the crude birth rate, while Ireland has experienced a fairly rapid fall in TPFR over recent years, it still remains high by the standards of other countries in Europe (Figure 8). The relatively high age-specific fertility rates in the older age groups in Ireland compared with other EU countries are apparent in Figure 9.

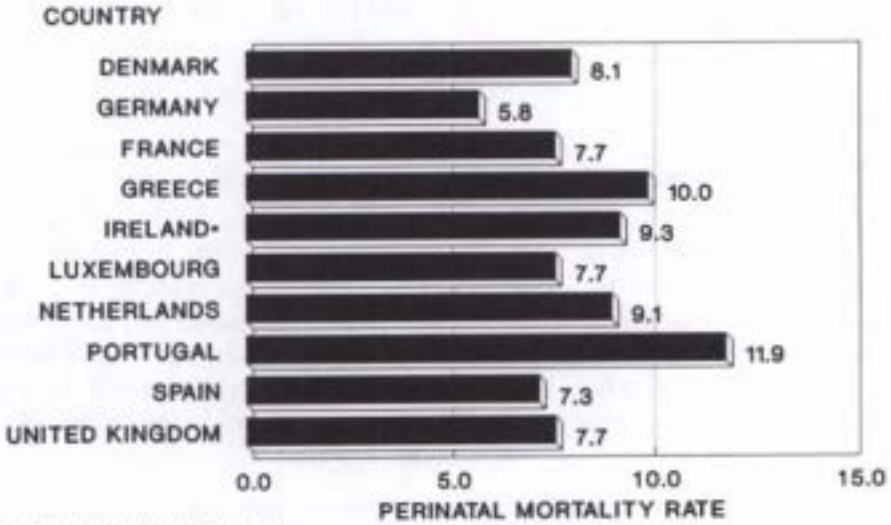
* National figures presented in this section are based on official registration data as compiled by the Central Statistics Office. These figures may differ somewhat from numbers and rates appearing in the Tables of this Report for reasons given in the previous section.

FIGURE 2
PERINATAL MORTALITY RATE, IRELAND: 1972-1992



Source: Report on Vital Statistics 1972-1990.
Note: Provisional figure for 1992.

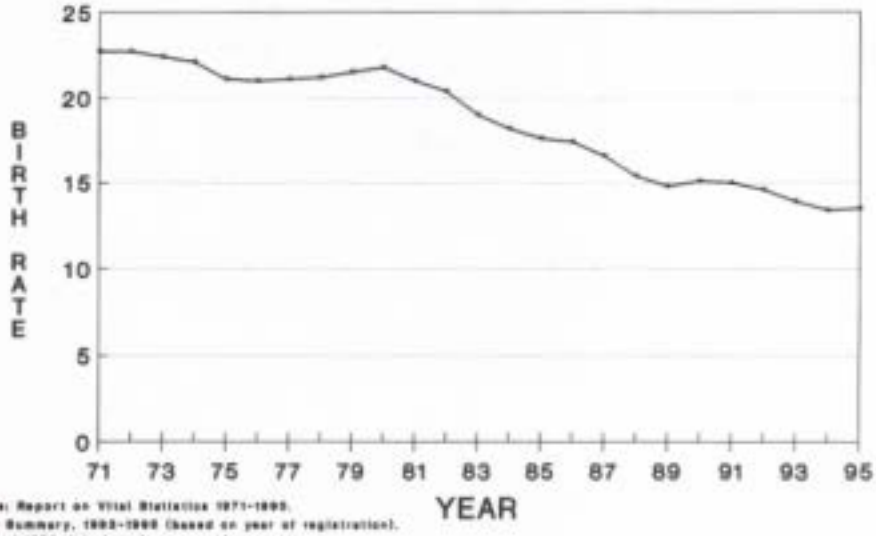
FIGURE 3
PERINATAL MORTALITY RATES, 1992 FOR EU COUNTRIES



Source: Demographic Stats.,Eurostat,1995
Note: Data for Belgium and Italy are not sufficiently current to include.

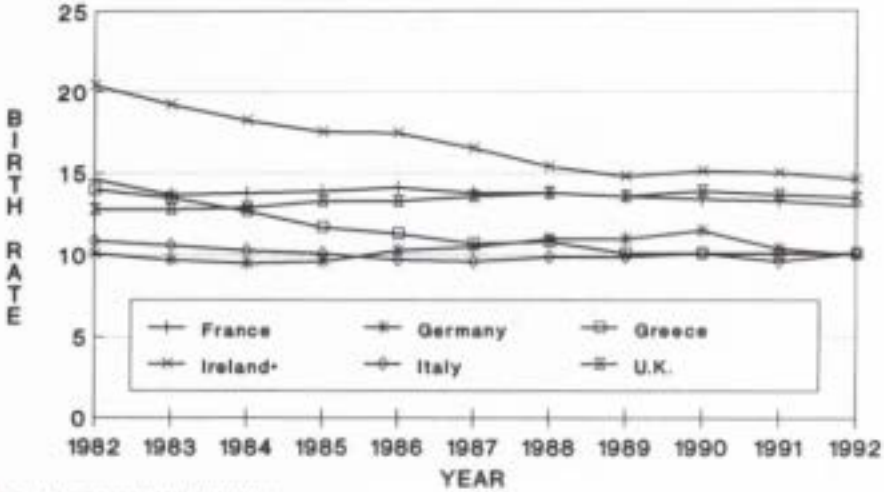
* Provisional figure.

FIGURE 4
BIRTH RATE PER 1,000 POPULATION, IRELAND: 1971-1995



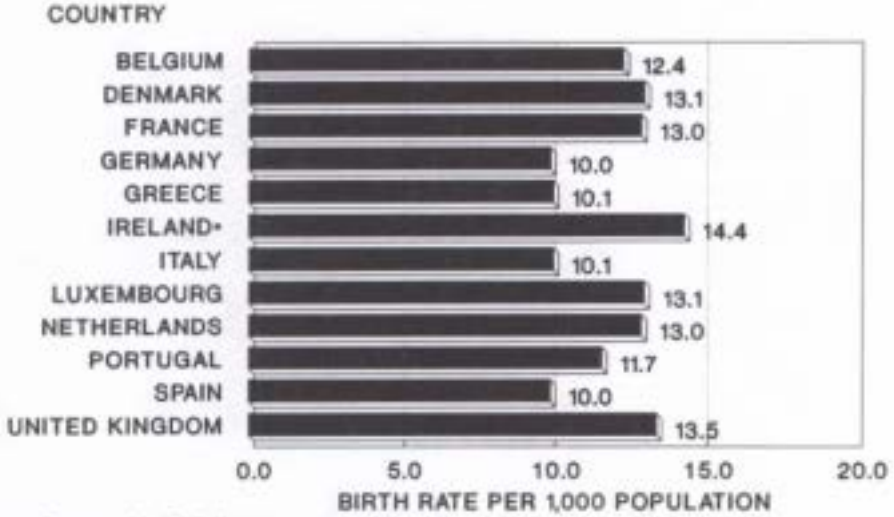
Source: Report on Vital Statistics 1971-1995.
Yearly Summary, 1993-1995 (based on year of registration).
1991 and 1992 data based on year of occurrence.

FIGURE 5
TRENDS IN BIRTH RATES FOR SELECTED EU COUNTRIES: 1982-1992



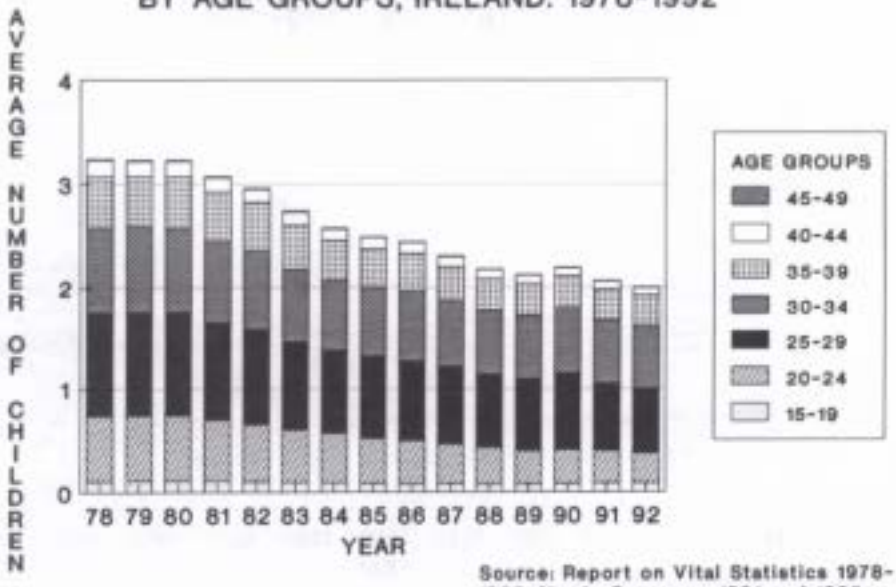
Source: Demographic Statistics, Eurostat, 1995.
* Provisional figures for 1991 & 1992.

FIGURE 6
BIRTH RATES PER 1,000 POPULATION
EU: 1992



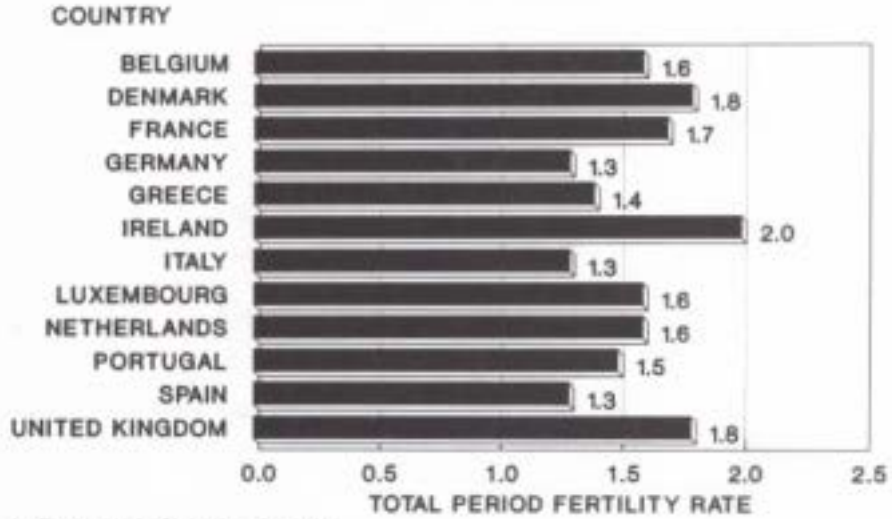
Source: Demographic Statistics, Eurostat, 1995.
* Provisional figure.

FIGURE 7
TOTAL PERIOD FERTILITY RATE SUBDIVIDED BY AGE GROUPS, IRELAND: 1978-1992



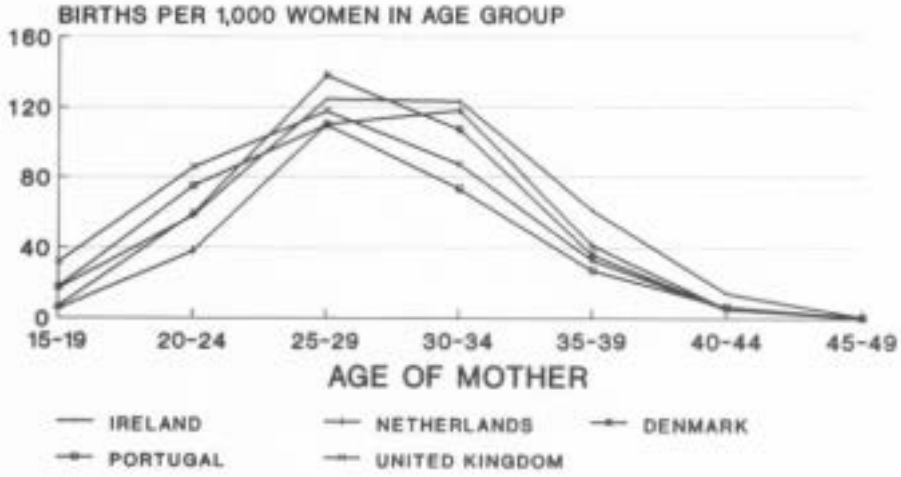
Source: Report on Vital Statistics 1978-1990. Yearly Summary, 1991 and 1992 (based on year of registration).

FIGURE 8
TOTAL PERIOD FERTILITY RATES, 1992 FOR EU COUNTRIES



Source:Demographic Statistics, Eurostat 1995. Data for Belgium and Italy are estimated.

FIGURE 9
AGE SPECIFIC FERTILITY RATES, 1992 FOR CERTAIN EU COUNTRIES



Source: Demographic Statistics, Eurostat 1994 and 1995.

SELECTED BIBLIOGRAPHY

Barry-Kinsella C., Harrison R.F., Milner M., Unwin A. (1992). The impact of maternal age on pregnancy and its outcome. *Int J Gynaecol Obstet* 38, 281-286.

Brown I., Elbourne D., and Mutch L.M.M. (1981). For discussion: standard national perinatal data: a suggested minimum data set. *Community Medicine* 3, 298-306.

Cartledge P.H.T. and Stewart J.H. (1995). Effect of changing the stillbirth definition on evaluation of perinatal mortality rates. *Lancet* 346, 486-488.

Chiswick M.L. (1986). Commentary on World Health Organisation definitions used in perinatal statistics. *Br J Obstet Gynaecol* 93, 1236-1238.

Cleary R. et al (1994). The quality of routinely collected maternity data. *Br J Obstet Gynaecol* 101, 1042-1047.

Cole S. (1991). Classification of perinatal deaths. *Eur J Obstet Gynaecol Reprod Biol* 41, 17-19.

Department of Health (1968-1990). *Annual Reports on Vital Statistics.* Dublin: 1968-1990. Prepared by the Central Statistics Office.

Department of Health. *Health Statistics, 1993.* Dublin: 1995.

Elbourne D. and Mutch L.M.M. (1983). Standard national perinatal data: a suggested common core of tabulations. *Community Medicine* 5, 251-259.

Hey E.N., Lloyd D.J., Wigglesworth J.S. (1986). Classifying perinatal death: fetal and neonatal factors. *Br J Obstet Gynaecol* 93, 1213-1223.

Information Services Division, Scottish Health Service Common Services Agency. *Scottish Stillbirth and Neonatal Death Report, 1985.*

Johnson Z., Dack P., Fogarty J. (1994). Small area analysis of low birth weight. *Ir Med J* 87, 176-177.

MacFarlane A. et al (1995). *Counting the changes in childbirth: trends and gaps in national statistics.* Oxford: National Perinatal Epidemiology Unit.

EUROSTAT (1995). *Demographic Statistics, 1995.* Luxembourg: Office of Official Publications of the European Community.

Office of National Statistics. *Birth Statistics, England and Wales, 1994.* Series FM1, no.23, London: HMSO, 1996.

Office of Population Censuses and Surveys. *Mortality Statistics: perinatal and infant (social and biological factors), 1992.* Series DH3, no.26, London: HMSO, 1995.

Skjaerven R., Wilcox A.J. (1992). Birthweight and perinatal mortality: the effect of gestational age. *Am J Public Health* 82, 378-382.

Taylor D.J. (1992). Perinatal mortality and morbidity – the Scottish perspective. *J Perinatal Med* 20, 171-175.

Wigglesworth J.S. (1980). Monitoring perinatal mortality: a pathophysiological approach. *Lancet* 2, 684-686.

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

1992

SECTION A: SELECTED TRENDS

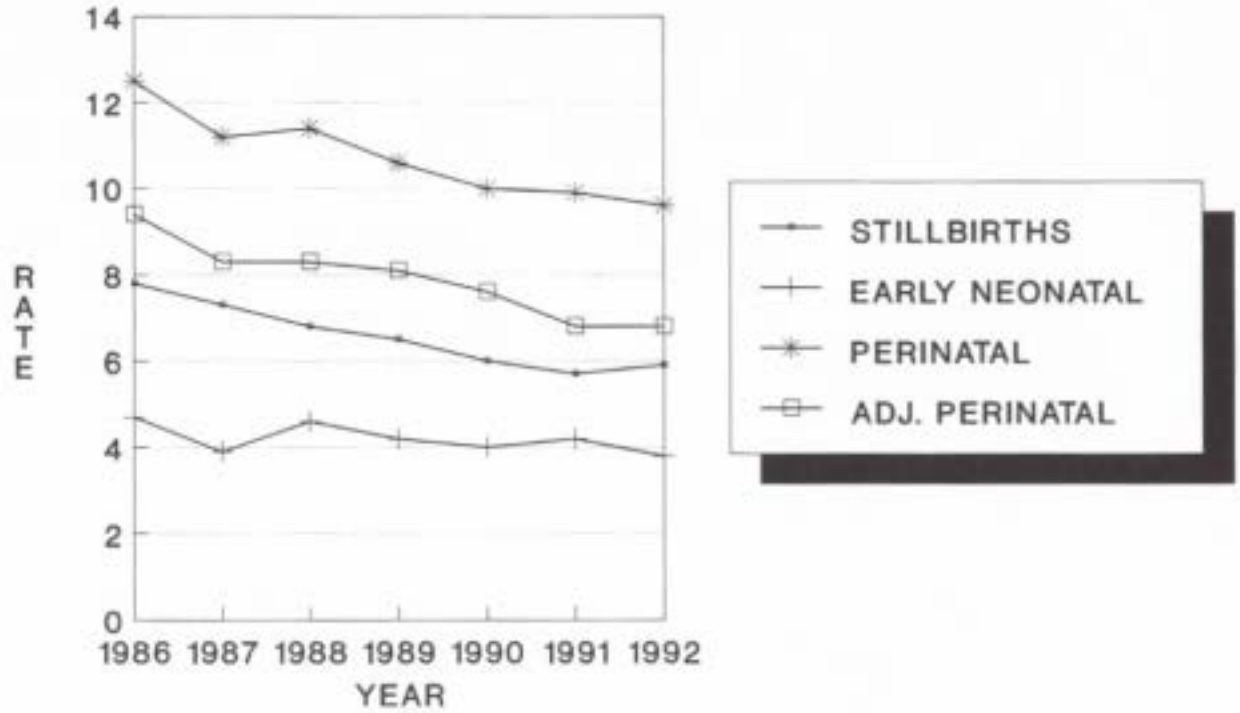
TABLE 1

TRENDS IN VITAL EVENTS
SINGLETON AND MULTIPLE BIRTHS, NUMBERS AND RATES FOR
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND PERINATAL DEATHS, 1986 TO 1992

		YEAR															
		1986		1987		1988		1989		1990		1991		1992		1986-1992	
VITAL EVENTS		NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
LIVE BIRTHS:	SINGLETON	60068	–	57013	–	53202	–	50631	–	51543	–	51242	–	49686	–	373385	–
	MULTIPLE	1245	–	1217	–	1239	–	1251	–	1250	–	1200	–	1182	–	8584	–
	TOTAL	61313	–	58230	–	54441	–	51882	–	52793	–	52442	–	50868	–	381969	–
STILLBIRTHS:	SINGLETON	446	7.4	404	7.0	344	6.4	321	6.3	305	5.9	284	5.5	285	5.7	2389	6.3
	MULTIPLE	36	28.1	25	20.1	30	23.6	17	13.4	11	8.7	18	14.8	16	13.4	153	17.5
	TOTAL	482	7.8	429	7.3	374	6.8	338	6.5	316	6.0	302	5.7	301	5.9	2542	6.6
EARLY NEONATAL DEATHS:	SINGLETON	257	4.3	205	3.6	218	4.1	186	3.7	191	3.7	195	3.8	173	3.5	1425	3.8
	MULTIPLE	31	24.9	23	18.9	33	26.6	31	24.8	22	17.6	24	20.0	19	16.1	183	21.3
	TOTAL	288	4.7	228	3.9	251	4.6	217	4.2	213	4.0	219	4.2	192	3.8	1608	4.2
PERINATAL DEATHS:	SINGLETON	703	11.6	609	10.6	562	10.5	507	10.0	496	9.6	479	9.3	458	9.2	3814	10.1
	MULTIPLE	67	52.3	48	38.6	63	49.6	48	37.9	33	26.2	42	34.5	35	29.2	336	38.4
	TOTAL	770	12.5	657	11.2	625	11.4	555	10.6	529	10.0	521	9.9	493	9.6	4150	10.8
ADJ. PERINATAL DEATHS:	SINGLETON	515	8.5	442	7.7	394	7.4	380	7.5	376	7.3	320	6.2	318	6.4	2745	7.3
	MULTIPLE	64	50.1	44	35.5	57	45.1	41	32.5	29	23.1	39	32.1	32	26.7	306	35.0
	TOTAL	579	9.4	486	8.3	451	8.3	421	8.1	405	7.6	359	6.8	350	6.8	3051	7.9

Note: Definitions of terms and algorithms for the calculation of mortality rates are given in the introduction to the report. The 1991 figures for Adjusted Perinatal Deaths have been revised.

FIGURE A1: TOTAL BIRTHS RATES FOR STILLBIRTHS, EARLY NEONATAL & PERINATAL DEATHS 1986-1992



Source: Table 1.

TABLE 2

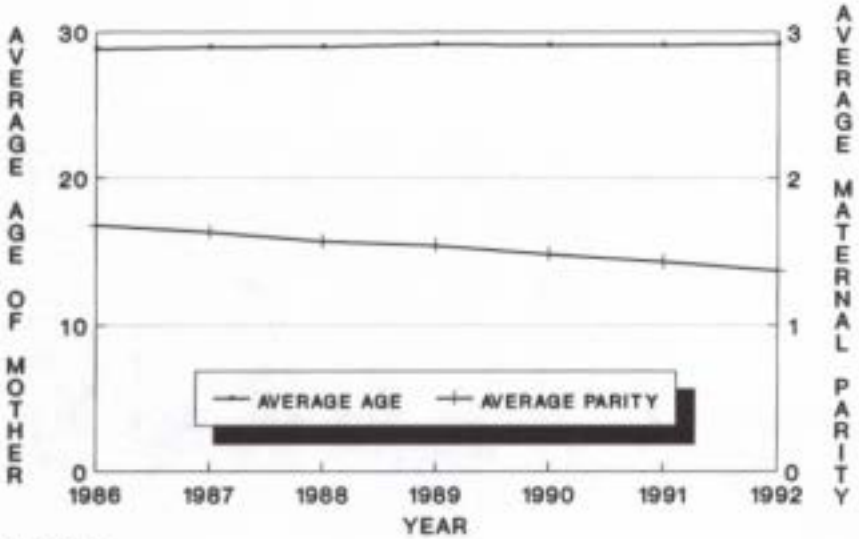
TRENDS IN SELECTED STATISTICS, 1986 TO 1992

SELECTED STATISTICS	1986	1987	1988	1989	1990	1991	1992
GENERAL CHARACTERISTICS							
Average Age of Mother in Years	28.82	28.93	28.97	29.12	29.11	29.11	29.18
Average Maternal Parity	1.68	1.63	1.57	1.54	1.48	1.43	1.37
Single Mothers (%)	8.95	9.99	11.09	11.95	13.56	15.54	16.50
Average Number of Previous Stillbirths per 1000 Confinements	23.95	22.06	20.47	20.02	19.44	17.22	19.82
Average Weight in Grammes							
– Singleton Births	3503.85	3501.55	3504.01	3506.58	3509.88	3548.02	3525.01
– Multiple Births	2552.47	2530.11	2545.52	2539.24	2584.04	2653.17	2549.84
– Total Births	3484.47	3481.28	3482.29	3483.19	3488.10	3527.54	3502.37
Low Birthweight < 2500 grammes (%)							
– Singleton Births	3.31	3.28	3.48	3.30	3.35	3.43	3.24
– Multiple Births	42.63	43.76	41.58	40.90	38.70	38.38	41.38
– Total Births	4.11	4.12	4.34	4.20	4.18	4.23	4.13
Average Gestational Age at Delivery in Weeks	39.74	39.68	39.58	39.63	39.60	39.59	40.23
Average Interval since Last Birth in Years	3.45	3.49	3.56	3.60	3.68	3.68	3.69
PERINATAL CARE							
Hospital & GP Combined Antenatal Care (%)	60.60	61.24	61.86	61.52	60.80	58.97	61.97
Average Gestational Age at Time of First Visit to Doctor in Weeks	11.74	11.91	11.81	11.87	11.46	11.80	11.63
Mothers' Average Length of Stay in Days	6.09	5.78	5.73	5.64	5.47	5.24	5.12
Immunity to Rubella (%)	87.05	88.48	87.33	88.76	88.77	89.40	89.02
Method of Delivery (%):							
Singleton Births							
– Spontaneous	78.45	77.51	76.48	75.36	74.33	73.64	73.72
– Caesarean	8.43	8.78	9.49	9.84	10.39	11.30	11.78
– Forceps[1]	8.38	9.20	9.37	10.00	9.78	9.58	8.30
Multiple Births							
– Spontaneous	48.67	47.01	46.59	42.78	43.06	39.36	40.78
– Caesarean	18.32	20.35	22.00	24.86	24.84	30.70	29.69
– Forceps[1]	9.28	7.97	8.52	8.88	7.18	8.07	6.40
Total Births							
– Spontaneous	78.24	77.30	76.27	75.09	74.07	72.85	72.96
– Caesarean	8.52	8.90	9.62	10.01	10.55	11.75	12.19
– Forceps[1]	8.40	9.19	9.36	10.00	9.75	9.54	8.25
Booked Hospital Admissions (%)	97.81	98.59	99.02	99.15	98.70	98.94	98.99
Mothers Breastfeeding (%)	33.86	33.23	32.26	32.76	31.66	31.85	33.85
PERINATAL OUTCOMES							
Wigglesworth Classes (Rate)[2]							
– Macerated Stillbirths	4.55	3.87	3.48	3.79	3.46	2.96	3.48
– Congenital Anomalies	3.02	2.76	3.05	2.51	2.22	2.88	2.74
– Immaturity	1.80	1.55	1.75	1.74	1.73	1.44	1.48
– Asphyxia	2.39	2.51	2.75	2.11	2.32	2.39	1.74
– Specific Conditions	0.99	0.78	0.64	0.65	0.47	0.38	0.47
– Total	12.70	11.47	11.67	10.80	10.20	10.05	9.91
Infants' Average Length of Stay in Days							
– Singleton Births	4.91	4.77	4.74	4.70	4.54	4.41	4.44
– Multiple Births	8.11	7.24	8.28	7.89	7.42	7.83	9.56
– Total Births	4.96	4.81	4.80	4.76	4.60	4.47	4.54
Postmortems for Early Neonatal Deaths (%)	70.88	65.88	61.40	73.33	66.09	66.12	73.78

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 confinements. 'Low Birthweight' and 'Method of Delivery' data have been revised for 1991. Missing values are not included in the calculation of percentages.

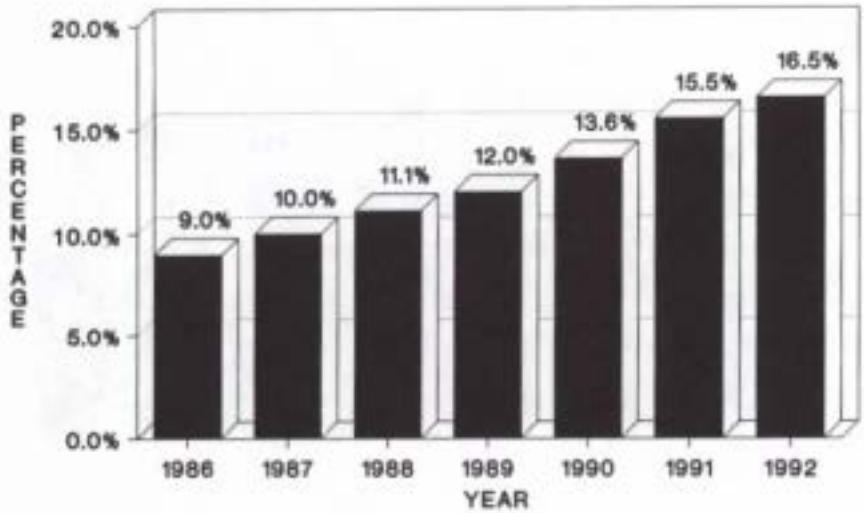
[1] Excludes breech deliveries. [2] See Appendix E for details of method.

FIGURE A2
AVERAGE AGE OF MOTHER IN YEARS AND AVERAGE MATERNAL PARITY, 1986-1992



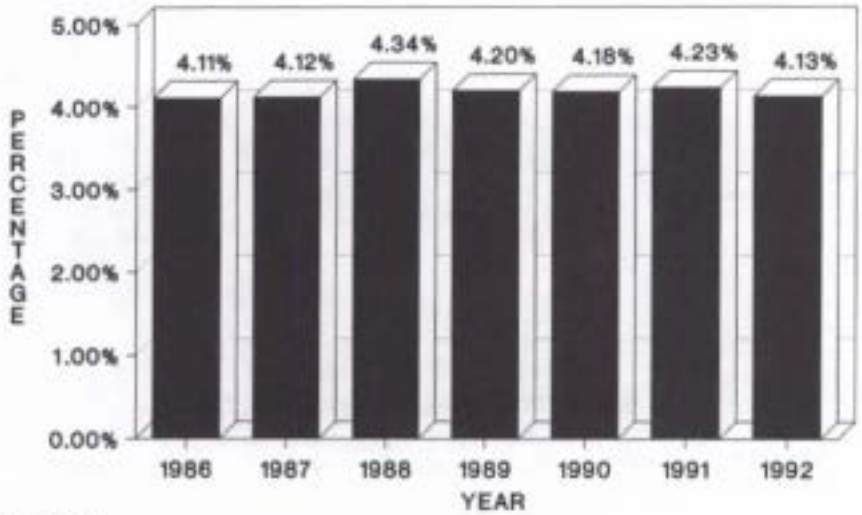
Source: Table 2.

FIGURE A3
PERCENTAGE OF SINGLE MOTHERS, 1986-1992



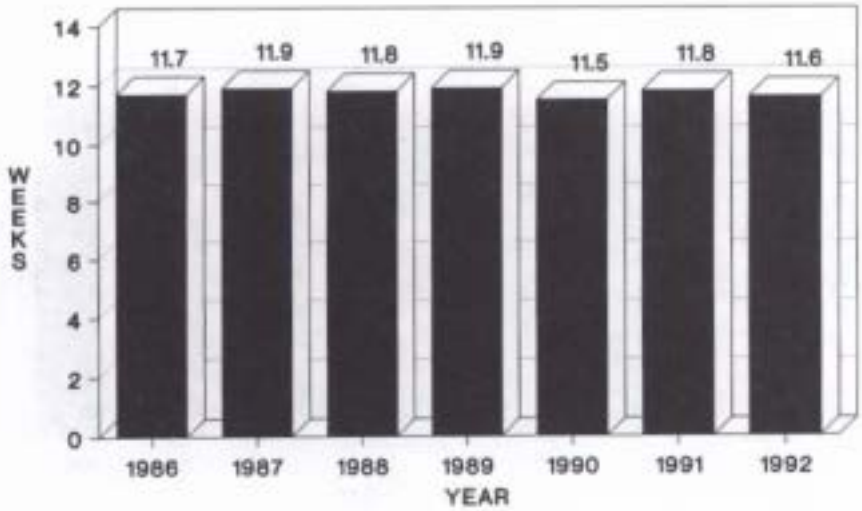
Source: Table 2.

FIGURE A4
PERCENTAGE OF LOW BIRTHWEIGHT BABIES, 1986-1992



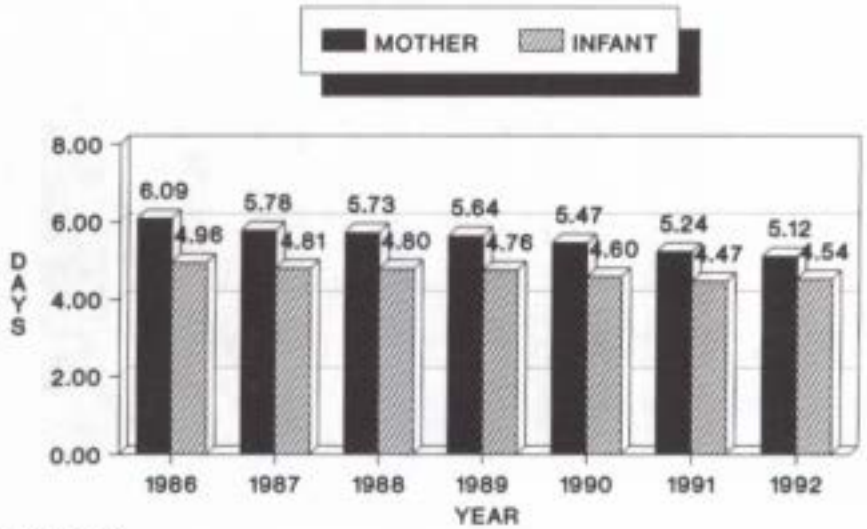
Source: Table 2.

FIGURE A5
AVERAGE GESTATIONAL AGE AT TIME OF FIRST VISIT TO DOCTOR IN WEEKS,1986-1992



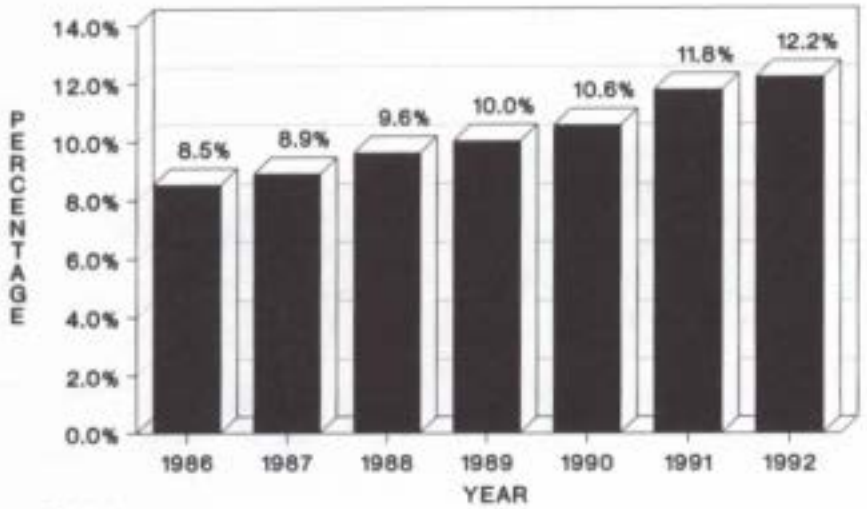
Source: Table 2.

FIGURE A6
AVERAGE LENGTH OF STAY IN DAYS FOR MOTHERS AND INFANTS, 1986-1992



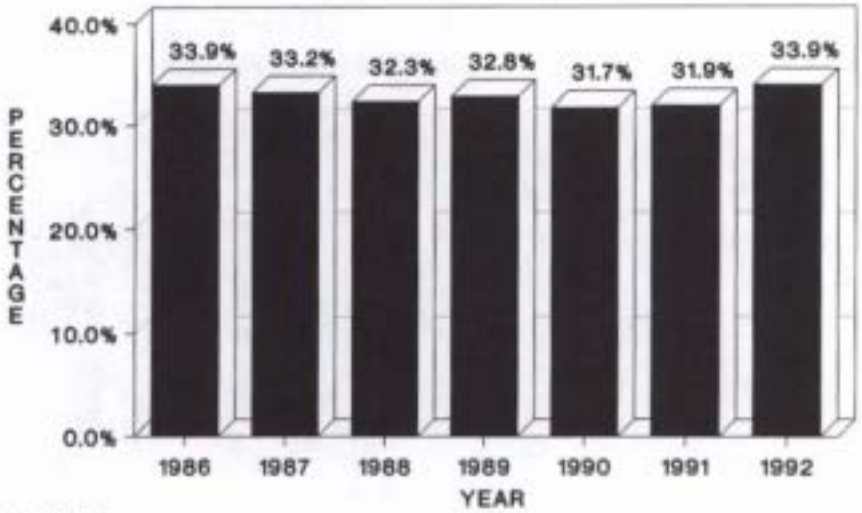
Source: Table 2.

FIGURE A7
PERCENTAGE OF CAESAREAN BIRTHS 1986-1992



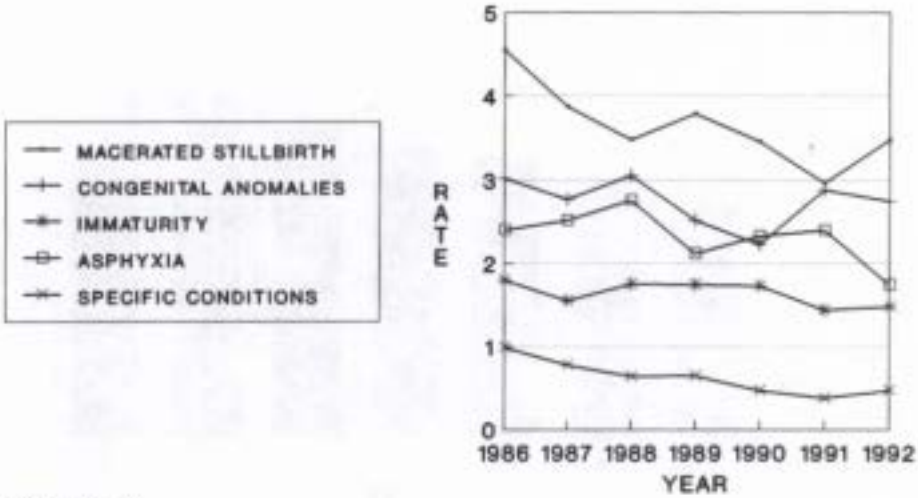
Source: Table 2

FIGURE A8
PERCENTAGE OF MOTHERS BREASTFEEDING, 1986-1992



Source: Table 2.

FIGURE A9
WIGGLESWORTH CLASSES RATES, 1986-1992



Source: Table 2.
See Appendix E for details of method.

1992

SECTION B:
GENERAL CHARACTERISTICS

GENERAL CHARACTERISTICS, 1992

PART 1: SINGLETON BIRTHS

TABLE 3

AGE OF MOTHER
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

AGE OF MOTHER	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR*
UNDER 15	7	0.0	0	0.0	0	0.0	0.0	0.0
15-19	2695	5.4	22	8.1	12	4.5	12.5	9.6
20-24	7769	15.6	50	6.4	26	3.3	9.7	7.6
25-29	15082	30.4	72	4.8	48	3.2	7.9	5.7
30-34	15093	30.4	81	5.3	50	3.3	8.6	5.6
35-39	7172	14.4	42	5.8	31	4.3	10.1	6.7
40-44	1567	3.2	15	9.5	4	2.6	12.0	8.9
45 AND OVER	82	0.2	0	0.0	1	12.2	12.2	0.0
NOT STATED	219	0.4	3	13.5	1	4.6	18.0	18.0
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

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

TABLE 4

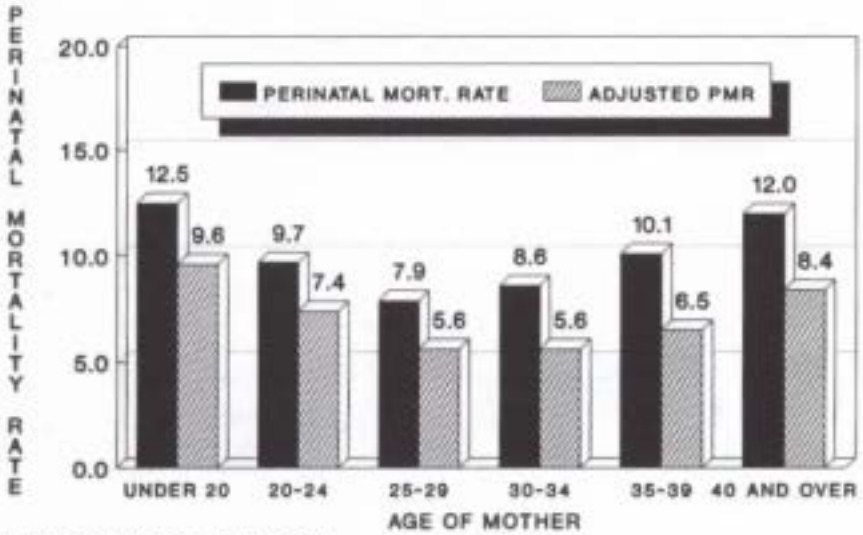
MATERNAL PARITY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

MATERNAL PARITY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0	17564	35.3	116	6.6	63	3.6	10.1	7.9
1	14019	28.2	65	4.6	48	3.4	8.0	5.0
2	8910	17.9	42	4.7	30	3.4	8.0	4.7
3	4616	9.3	25	5.4	21	4.5	9.9	6.3
4	2180	4.4	19	8.6	6	2.8	11.4	8.7
5	1073	2.2	6	5.6	1	0.9	6.5	6.5
6	533	1.1	2	3.7	1	1.9	5.6	5.6
MORE THAN 6	672	1.4	6	8.8	3	4.5	13.3	11.8
NOT STATED	119	0.2	4	32.5	0	0.0	32.5	24.6
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

FIGURE B1

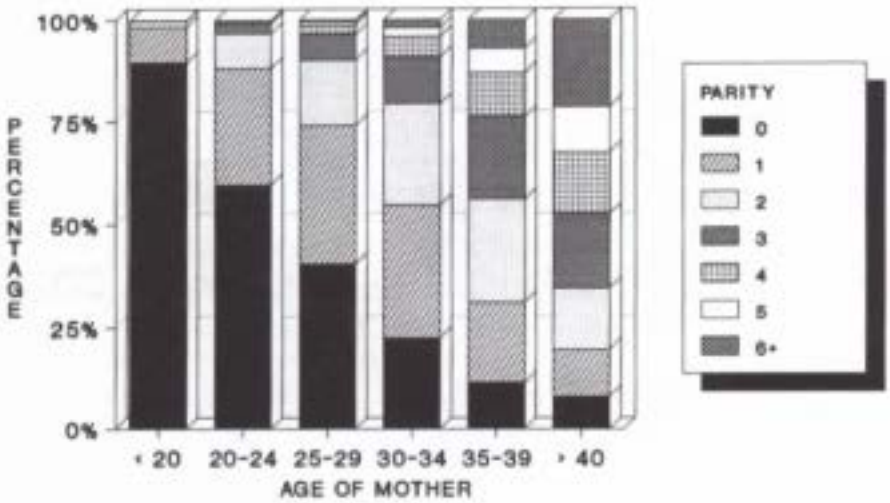
PERINATAL MORTALITY RATES BY AGE OF MOTHER, 1992 •••SINGLETON BIRTHS•••



Note: See Table 3 for data. The adjusted rate excludes all deaths due to congenital anomalies.

FIGURE B2

PERCENTAGE DISTRIBUTIONS OF PARITY FOR AGE OF MOTHER, 1992 •••SINGLETON BIRTHS•••



Note:See Appendix D, Table 1 for data. 'Not stated' data is not included in the calculation of the percentages.

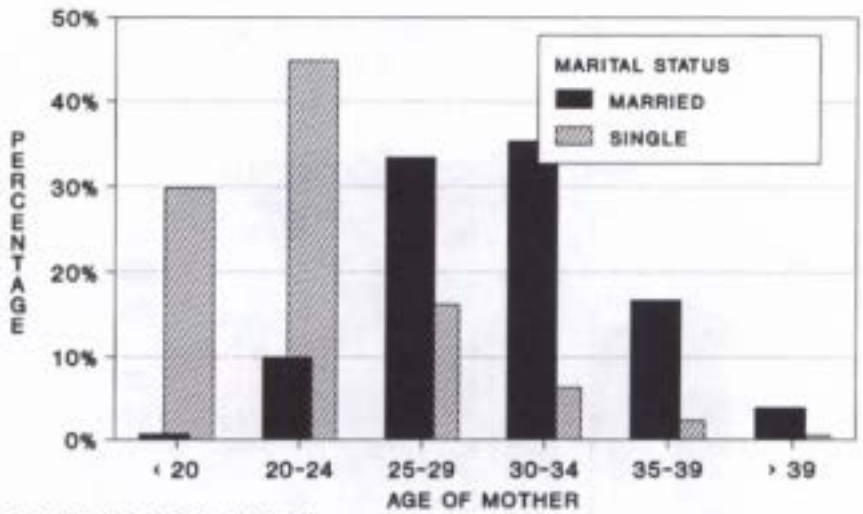
TABLE 5

MARITAL STATUS
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

MARITAL STATUS	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
MARRIED	40511	81.5	218	5.4	139	3.4	8.8	6.0
SINGLE	8202	16.5	61	7.4	31	3.8	11.1	8.6
WIDOWED	70	0.1	0	0.0	0	0.0	0.0	0.0
SEPARATED	781	1.6	6	7.6	3	3.8	11.4	7.7
DIVORCED	54	0.1	0	0.0	0	0.0	0.0	0.0
NOT STATED	68	0.1	0	0.0	0	0.0	0.0	0.0
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

FIGURE B3 MOTHER'S AGE: PERCENTAGE DISTRIBUTIONS FOR MARRIED AND SINGLE, 1992
SINGLETON BIRTHS



Note: See Appendix D, Table 3 for data. 'Not stated' data is not included in the calculation of the percentages.

TABLE 6

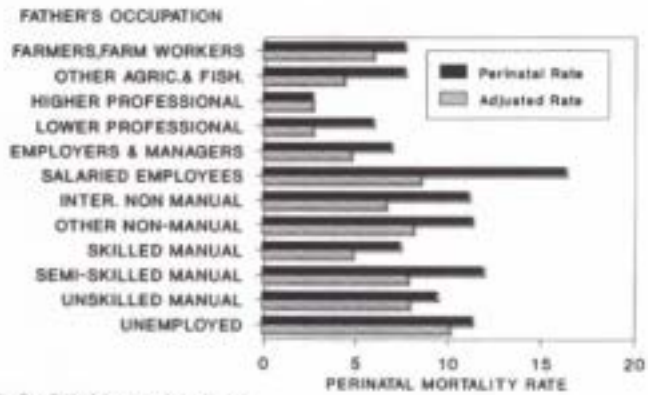
FATHER'S OCCUPATION
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

SINGLETON BIRTHS

FATHER'S OCCUPATION	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
FARMERS & FARM MANAGERS	4152	8.4	20	4.8	12	2.9	7.7	6.0
OTHER AGRICULTURAL OCCUPATIONS & FISHERMEN	900	1.8	4	4.4	3	3.3	7.7	4.4
HIGHER PROFESSIONAL	2217	4.5	5	2.3	1	0.5	2.7	2.7
LOWER PROFESSIONAL	1834	3.7	6	3.3	5	2.7	6.0	2.7
EMPLOYERS & MANAGERS	4995	10.1	14	2.8	21	4.2	7.0	4.8
SALARIED EMPLOYEES	1267	2.6	15	11.7	6	4.7	16.4	8.6
INTERMEDIATE NON-MANUAL WORKERS	4166	8.4	26	6.2	21	5.0	11.2	6.7
OTHER NON-MANUAL WORKERS	4258	8.6	32	7.5	17	4.0	11.4	8.2
SKILLED MANUAL WORKERS	10716	21.6	52	4.8	29	2.7	7.5	4.9
SEMI-SKILLED MANUAL WORKERS	2148	4.3	15	6.9	11	5.1	12.0	7.9
UNSKILLED MANUAL WORKERS	1993	4.0	12	6.0	7	3.5	9.5	8.0
UNEMPLOYED	1565	3.1	13	8.2	5	3.2	11.4	10.2
NOT CLASSIFIABLE	230	0.5	0	0.0	1	4.3	4.3	4.3
NOT APPLICABLE	9080	18.3	66	7.2	33	3.6	10.8	8.3
NOT STATED	165	0.3	5	29.4	1	6.1	35.3	23.8
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

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

FIGURE B4 PERINATAL MORTALITY RATES BY FATHER'S OCCUPATION, 1992
SINGLETON BIRTHS



Note: See Table 6 for data. The adjusted rate excludes all deaths due to congenital anomalies.

TABLE 11

GESTATION PERIOD AT DELIVERY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

GESTATION PERIOD (WEEKS)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
LESS THAN 22	2	0.0	1	333.3	2	1000.0	1000.0	1000.0
22-27	88	0.2	38	294.6	42	461.5	620.2	608.0
28-31	231	0.5	45	163.0	21	90.9	239.1	189.2
32-36	1600	3.2	60	36.1	30	18.8	54.2	33.8
37-41	43605	87.8	133	3.0	73	1.7	4.7	3.0
42 AND OVER	4157	8.4	8	1.9	5	1.2	3.1	1.4
NOT STATED	3	0.0	0	0.0	0	0.0	0.0	0.0
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

TABLE 12

INTERVAL IN YEARS SINCE LAST BIRTH
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

TIME SINCE LAST BIRTH	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
NO PREVIOUS BIRTH	17564	35.3	116	6.6	63	3.6	10.1	7.9
1 YEAR OR LESS	530	1.1	5	9.3	6	11.3	20.6	11.3
>1 YEAR TO 2 YEARS	7478	15.1	37	4.9	32	4.3	9.2	5.5
>2 YEARS TO 3 YEARS	7922	15.9	29	3.6	24	3.0	6.7	3.4
>3 YEARS TO 4 YEARS	5524	11.1	27	4.9	16	2.9	7.7	5.4
>4 YEARS TO 5 YEARS	3429	6.9	20	5.8	6	1.7	7.5	5.5
>5 YEARS TO 6 YEARS	2202	4.4	7	3.2	8	3.6	6.8	3.6
MORE THAN 6 YEARS	4428	8.9	31	7.0	15	3.4	10.3	8.1
NOT STATED	609	1.2	13	20.9	3	4.9	25.7	22.6
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

TABLE 13

MONTH OF BIRTH
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

MONTH OF BIRTH	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
JANUARY	4213	8.5	29	6.8	17	4.0	10.8	8.7
FEBRUARY	3944	7.9	19	4.8	17	4.3	9.1	5.3
MARCH	4344	8.7	26	5.9	18	4.1	10.1	6.7
APRIL	4377	8.8	24	5.5	16	3.7	9.1	6.6
MAY	4446	8.9	18	4.0	21	4.7	8.7	6.3
JUNE	4176	8.4	29	6.9	8	1.9	8.8	6.4
JULY	4382	8.8	22	5.0	12	2.7	7.7	5.7
AUGUST	4152	8.4	21	5.0	10	2.4	7.4	5.0
SEPTEMBER	4186	8.4	31	7.4	14	3.3	10.7	7.1
OCTOBER	3923	7.9	24	6.1	9	2.3	8.4	5.6
NOVEMBER	3708	7.5	23	6.2	17	4.6	10.7	8.1
DECEMBER	3835	7.7	19	4.9	14	3.7	8.6	5.7
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

GENERAL CHARACTERISTICS, 1992

PART 2: MULTIPLE BIRTHS

TABLE 14

MATERNITIES, TWINS, TRIPLETS, QUADRUPLETS AND TWINNING RATE FOR 1992

BIRTHS*	MATERNITIES	SETS OF TWINS	SETS OF TRIPLETS	SETS OF QUADRUPLETS	TWINNING RATE
51169	50567	581	8	3	11.5

* includes stillbirths.

TABLE 15

AGE OF MOTHER
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

AGE OF MOTHER	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
15-19	14	1.2	0	0.0	0	0.0	0.0	0.0
20-24	106	9.0	3	27.5	1	9.4	36.7	36.7
25-29	380	32.1	7	18.1	6	15.8	33.6	28.6
30-34	417	35.3	1	2.4	5	12.0	14.4	14.4
35-39	219	18.5	5	22.3	5	22.8	44.6	44.6
40-44	42	3.6	0	0.0	0	0.0	0.0	0.0
NOT STATED	4	0.3	0	0.0	2	500.0	500.0	500.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 16

MATERNAL PARITY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

MATERNAL PARITY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0	368	31.1	8	21.3	5	13.6	34.6	34.6
1	339	28.7	3	8.8	11	32.4	40.9	40.9
2	254	21.5	3	11.7	1	3.9	15.6	7.8
3	117	9.9	0	0.0	2	17.1	17.1	17.1
4	47	4.0	0	0.0	0	0.0	0.0	0.0
5	21	1.8	0	0.0	0	0.0	0.0	0.0
6	10	0.8	0	0.0	0	0.0	0.0	0.0
MORE THAN 6	26	2.2	2	71.4	0	0.0	71.4	71.4
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 17

MARITAL STATUS
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

MARITAL STATUS	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
MARRIED	1022	86.5	13	12.6	18	17.6	30.0	28.1
SINGLE	134	11.3	3	21.9	1	7.5	29.2	29.2
WIDOWED	2	0.2	0	0.0	0	0.0	0.0	0.0
SEPARATED	24	2.0	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 18

FATHER'S OCCUPATION
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS*

FATHER'S OCCUPATION	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
FARMERS & FARM MANAGERS	124	10.5	4	31.3	3	24.2	54.7	54.7
OTHER AGRICULTURAL OCCUPATIONS & FISHERMEN	23	1.9	0	0.0	0	0.0	0.0	0.0
HIGHER PROFESSIONAL	62	5.2	2	31.3	0	0.0	31.3	31.3
LOWER PROFESSIONAL	40	3.4	1	24.4	0	0.0	24.4	24.4
EMPLOYERS & MANAGERS	126	10.7	0	0.0	1	7.9	7.9	7.9
SALARIED EMPLOYEES	35	3.0	0	0.0	2	57.1	57.1	57.1
INTERMEDIATE NON-MANUAL WORKERS	98	8.3	3	29.7	2	20.4	49.5	30.3
OTHER NON-MANUAL WORKERS	82	6.9	1	12.0	3	36.6	48.2	48.2
SKILLED MANUAL WORKERS	285	24.1	2	7.0	5	17.5	24.4	24.4
SEMI-SKILLED MANUAL WORKERS	58	4.9	0	0.0	0	0.0	0.0	0.0
UNSKILLED MANUAL WORKERS	54	4.6	0	0.0	2	37.0	37.0	37.0
UNEMPLOYED	36	3.0	0	0.0	0	0.0	0.0	0.0
NOT APPLICABLE	159	13.5	3	18.5	1	6.3	24.7	24.7
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

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

TABLE 19

NUMBER OF PREVIOUS STILLBIRTHS
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

PREVIOUS STILLBIRTHS	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0	778	95.6	8	10.2	13	16.7	26.7	24.2
1	9	1.1	0	0.0	1	111.1	111.1	111.1
2	3	0.4	0	0.0	0	0.0	0.0	0.0
NOT STATED	24	2.9	0	0.0	0	0.0	0.0	0.0
TOTAL	814	100.0	8	9.7	14	17.2	26.8	24.4

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

TABLE 20

BIRTHWEIGHT – ALL BIRTHS
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

BIRTHWEIGHT (GRAMMES)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
500-749	14	1.2	3	176.5	11	785.7	823.5	800.0
750-999	12	1.0	0	0.0	7	583.3	583.3	583.3
1000-1249	11	0.9	2	153.8	1	90.9	230.8	230.8
1250-1499	27	2.3	1	35.7	0	0.0	35.7	35.7
1500-1999	133	11.3	3	22.1	0	0.0	22.1	22.1
2000-2499	290	24.5	2	6.8	0	0.0	6.8	6.8
2500-2999	411	34.8	2	4.8	0	0.0	4.8	4.8
3000-3499	236	20.0	2	8.4	0	0.0	8.4	8.4
3500-3999	39	3.3	1	25.0	0	0.0	25.0	25.0
4000-4499	4	0.3	0	0.0	0	0.0	0.0	0.0
NOT STATED	5	0.4	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 21

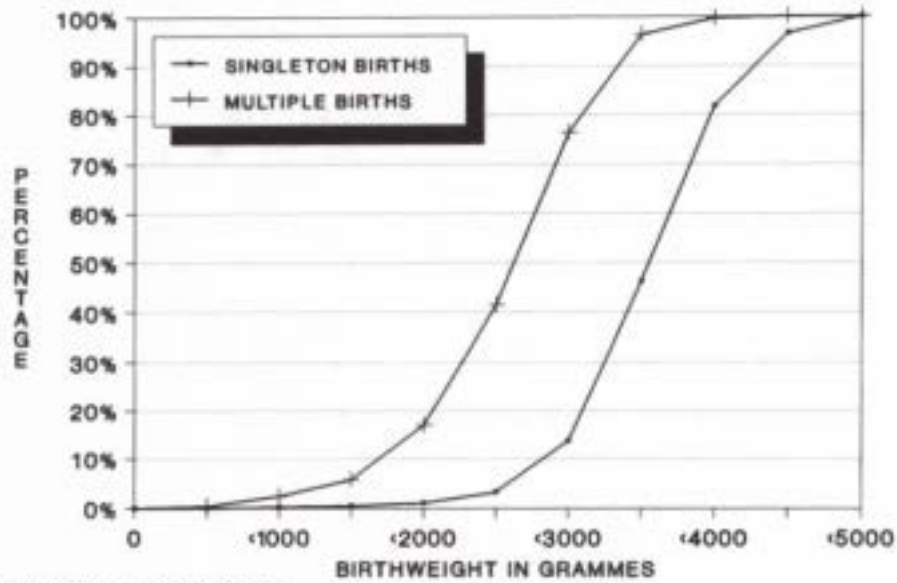
BIRTHWEIGHT – MALES
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

BIRTHWEIGHT (GRAMMES)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
500-749	8	1.3	0	0.0	7	875.0	875.0	875.0
750-999	7	1.2	0	0.0	5	714.3	714.3	714.3
1000-1249	7	1.2	2	222.2	1	142.9	333.3	333.3
1250-1499	13	2.2	1	71.4	0	0.0	71.4	71.4
1500-1999	58	9.8	2	33.3	0	0.0	33.3	33.3
2000-2499	133	22.4	1	7.5	0	0.0	7.5	7.5
2500-2999	196	33.1	1	5.1	0	0.0	5.1	5.1
3000-3499	138	23.3	0	0.0	0	0.0	0.0	0.0
3500-3999	30	5.1	1	32.3	0	0.0	32.3	32.3
4000-4499	1	0.2	0	0.0	0	0.0	0.0	0.0
NOT STATED	2	0.3	0	0.0	0	0.0	0.0	0.0
TOTAL	593	100.0	8	13.3	13	21.9	34.9	34.9

BIRTHWEIGHTS: CUMULATIVE PERCENTAGES OF SINGLETON AND MULTIPLE LIVE BIRTHS, 1992

FIGURE B5



Note: See Tables 8 and 20 for data.

TABLE 22

BIRTHWEIGHT – FEMALES
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

BIRTHWEIGHT (GRAMMES)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
500-749	6	1.0	3	333.3	4	666.7	777.8	714.3
750-999	5	0.8	0	0.0	2	400.0	400.0	400.0
1000-1249	4	0.7	0	0.0	0	0.0	0.0	0.0
1250-1499	14	2.4	0	0.0	0	0.0	0.0	0.0
1500-1999	75	12.7	1	13.2	0	0.0	13.2	13.2
2000-2499	157	26.7	1	6.3	0	0.0	6.3	6.3
2500-2999	215	36.5	1	4.6	0	0.0	4.6	4.6
3000-3499	98	16.6	2	20.0	0	0.0	20.0	20.0
3500-3999	9	1.5	0	0.0	0	0.0	0.0	0.0
4000-4499	3	0.5	0	0.0	0	0.0	0.0	0.0
NOT STATED	3	0.5	0	0.0	0	0.0	0.0	0.0
TOTAL	589	100.0	8	13.4	6	10.2	23.5	20.2

TABLE 23

GESTATION PERIOD AT DELIVERY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

GESTATION PERIOD (WEEKS)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
22-27	21	1.8	2	87.0	15	714.3	739.1	739.1
28-31	45	3.8	4	81.6	3	66.7	142.9	106.4
32-36	379	32.1	3	7.9	0	0.0	7.9	7.9
37-41	720	60.9	7	9.6	1	1.4	11.0	11.0
42 AND OVER	17	1.4	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 24

INTERVAL IN YEARS SINCE LAST BIRTH
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

TIME SINCE LAST BIRTH	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
NO PREVIOUS BIRTH	368	31.1	8	21.3	5	13.6	34.6	34.6
1 YEAR OR LESS	24	2.0	1	40.0	0	0.0	40.0	40.0
>1 YEAR TO 2 YEARS	183	15.5	2	10.8	4	21.9	32.4	32.4
>2 YEARS TO 3 YEARS	216	18.3	1	4.6	4	18.5	23.0	23.0
>3 YEARS TO 4 YEARS	122	10.3	1	8.1	0	0.0	8.1	8.1
>4 YEARS TO 5 YEARS	106	9.0	1	9.3	2	18.9	28.0	28.0
>5 YEARS TO 6 YEARS	45	3.8	0	0.0	2	44.4	44.4	44.4
MORE THAN 6 YEARS	116	9.8	2	16.9	2	17.2	33.9	17.2
NOT STATED	2	0.2	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 25

MONTH OF BIRTH
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

MONTH OF BIRTH	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
JANUARY	82	6.9	0	0.0	3	36.6	36.6	36.6
FEBRUARY	103	8.7	1	9.6	6	58.3	67.3	67.3
MARCH	109	9.2	3	26.8	1	9.2	35.7	35.7
APRIL	123	10.4	0	0.0	0	0.0	0.0	0.0
MAY	126	10.7	1	7.9	2	15.9	23.6	23.6
JUNE	76	6.4	4	50.0	0	0.0	50.0	50.0
JULY	116	9.8	1	8.5	2	17.2	25.6	25.6
AUGUST	90	7.6	0	0.0	0	0.0	0.0	0.0
SEPTEMBER	113	9.6	3	25.9	1	8.8	34.5	17.5
OCTOBER	71	6.0	0	0.0	0	0.0	0.0	0.0
NOVEMBER	96	8.1	1	10.3	2	20.8	30.9	30.9
DECEMBER	77	6.5	2	25.3	2	26.0	50.6	50.6
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

1992

SECTION C: PERINATAL CARE

PERINATAL CARE, 1992

PART 1: SINGLETON BIRTHS

TABLE 26

TYPE OF ANTENATAL CARE
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

TYPE OF ANTENATAL CARE	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
HOSPITAL/ OBSTETRICIAN	17896	36.0	80	4.5	76	4.2	8.7	5.7
GENERAL PRACTITIONER ONLY	263	0.5	10	36.6	2	7.6	44.0	40.4
HOSPITAL AND G.P. COMBINED	30062	60.5	185	6.1	93	3.1	9.2	6.5
NONE	281	0.6	10	34.4	2	7.1	41.2	37.9
NOT STATED	1184	2.4	0	0.0	0	0.0	0.0	0.0
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

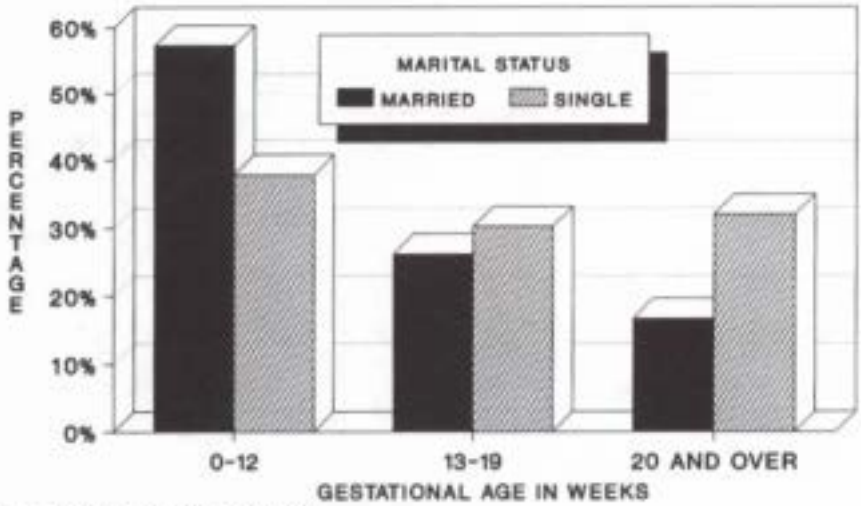
TABLE 27

TIME OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

TIME OF FIRST VISIT (WEEKS)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0-12	24974	50.3	121	4.8	79	3.2	8.0	5.6
13-19	12508	25.2	69	5.5	46	3.7	9.1	6.2
20 AND OVER	9002	18.1	70	7.7	38	4.2	11.9	8.5
NOT STATED	3202	6.4	25	7.8	10	3.1	10.9	8.4
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

FIGURE C1 TIME OF FIRST VISIT TO HOSPITAL/DOCTOR BY MARITAL STATUS, % DISTRIBUTIONS, 1992
SINGLETON BIRTHS



Note: See Appendix D, Table 10 for data. 'Not stated' data is not included in the calculation of the percentages.

TABLE 28

MOTHER'S LENGTH OF STAY IN HOSPITAL PRIOR TO DELIVERY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

ANTENATAL LENGTH OF STAY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0-2 DAYS	46574	94.1	252	5.4	142	3.0	8.4	5.8
3-5 DAYS	1471	3.0	17	11.4	13	8.8	20.2	14.2
6-8 DAYS	520	1.1	5	9.5	6	11.5	21.0	17.2
9-11 DAYS	234	0.5	2	8.5	3	12.8	21.2	12.8
12-14 DAYS	176	0.4	2	11.2	2	11.4	22.5	22.5
2 WEEKS OR MORE	508	1.0	7	13.6	7	13.8	27.2	25.3
NOT STATED	2	0.0	0	0.0	0	0.0	0.0	0.0
TOTAL	49485	100.0	285	5.7	173	3.5	9.2	6.5

Note: Domiciliary births of which there were 201 are excluded from this table.

TABLE 29

MOTHER'S LENGTH OF STAY IN HOSPITAL AFTER DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

SINGLETON BIRTHS

POSTNATAL LENGTH OF STAY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0-2 DAYS	4180	8.4	144	33.3	71	17.0	49.7	35.9
3-5 DAYS	37409	75.6	101	2.7	65	1.7	4.4	3.0
6-8 DAYS	5905	11.9	31	5.2	29	4.9	10.1	7.3
9-11 DAYS	1239	2.5	2	1.6	4	3.2	4.8	3.2
12-14 DAYS	117	0.2	4	33.1	1	8.5	41.3	41.3
2 WEEKS OR MORE	103	0.2	1	9.6	2	19.4	28.8	9.8
NOT STATED	532	1.1	2	3.7	1	1.9	5.6	3.8
TOTAL	49485	100.0	285	5.7	173	3.5	9.2	6.5

Note: Domiciliary births of which there were 201 are excluded from this table.

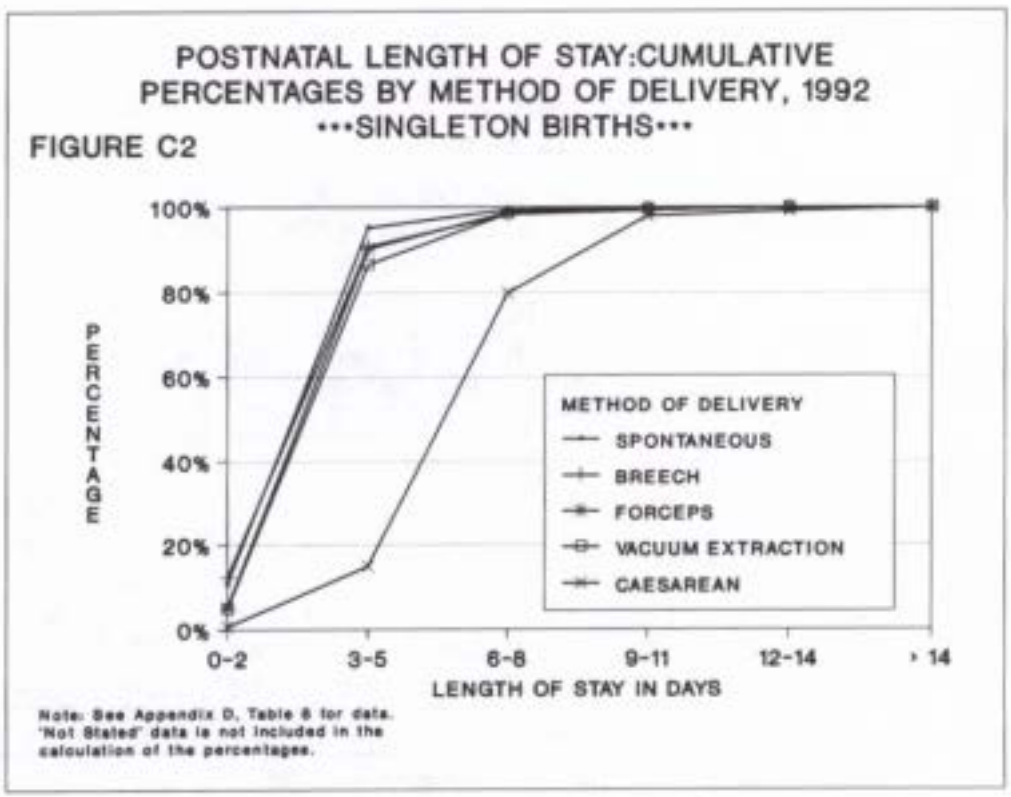


TABLE 30

RUBELLA: IMMUNE STATUS OF MOTHER
NUMBERS AND PERCENTAGES, 1992

SINGLETON BIRTHS

RUBELLA	FREQUENCY	PERCENT
IMMUNE	44069	88.2
NOT IMMUNE	788	1.6
UNKNOWN	4644	9.3
NOT STATED	470	0.9
TOTAL	49971	100.0

TABLE 31

METHOD OF DELIVERY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

METHOD OF DELIVERY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
SPONTANEOUS	36311	73.1	189	5.2	94	2.6	7.8	5.8
BREECH/FORCEPS	708	1.4	47	62.3	15	21.2	82.1	57.1
FORCEPS	4086	8.2	11	2.7	7	1.7	4.4	2.4
VACUUM EXTRACTION	2349	4.7	9	3.8	6	2.6	6.4	4.2
CAESAREAN	5801	11.7	23	3.9	49	8.4	12.4	7.6
OTHER, UNSPECIFIED & NOT STATED	431	0.9	6	13.7	2	4.6	18.3	11.5
TOTAL	49686	100.0	285	5.7	173	3.5	9.2	6.4

TABLE 32

ADVANCE HOSPITAL BOOKINGS
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

ADVANCE HOSPITAL BOOKINGS	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
BOOKED	48893	98.8	265	5.4	167	3.4	8.8	6.1
NOT BOOKED	455	0.9	19	40.1	6	13.2	52.7	44.7
NOT STATED	137	0.3	1	7.2	0	0.0	7.2	7.2
TOTAL	49485	100.0	285	5.7	173	3.5	9.2	6.5

Note: Domiciliary births of which there were 201 are excluded from this table.

TABLE 33

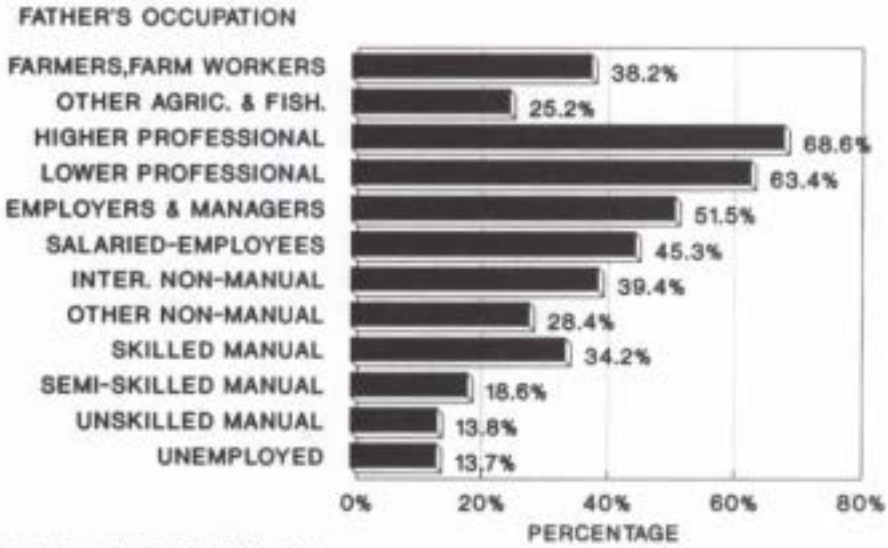
AGE OF MOTHER BY INFANT'S TYPE OF FEEDING, 1992

SINGLETON BIRTHS

AGE OF MOTHER	TYPE OF FEEDING			
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	ARTIFICIAL	BREAST	TOTAL
UNDER 15	0 0.00 0.00	6 85.71 0.02	1 14.29 0.01	7 0.01
15-19	40 1.48 5.84	2359 87.53 7.29	296 10.98 1.78	2695 5.42
20-24	104 1.34 15.18	6063 78.04 18.75	1602 20.62 9.62	7769 15.64
25-29	182 1.21 26.57	9763 64.73 30.18	5137 34.06 30.84	15082 30.35
30-34	182 1.21 26.57	8713 57.73 26.94	6198 41.07 37.21	15093 30.38
35-39	115 1.60 16.79	4205 58.63 13.00	2852 39.77 17.12	7172 14.43
40-44	33 2.11 4.82	1041 66.43 3.22	493 31.46 2.96	1567 3.15
45 AND OVER	3 3.66 0.44	62 75.61 0.19	17 20.73 0.10	82 0.17
NOT STATED	26 11.87 3.80	132 60.27 0.41	61 27.85 0.37	219 0.44
TOTAL	685 1.38	32344 65.10	16657 33.52	49686 100.00

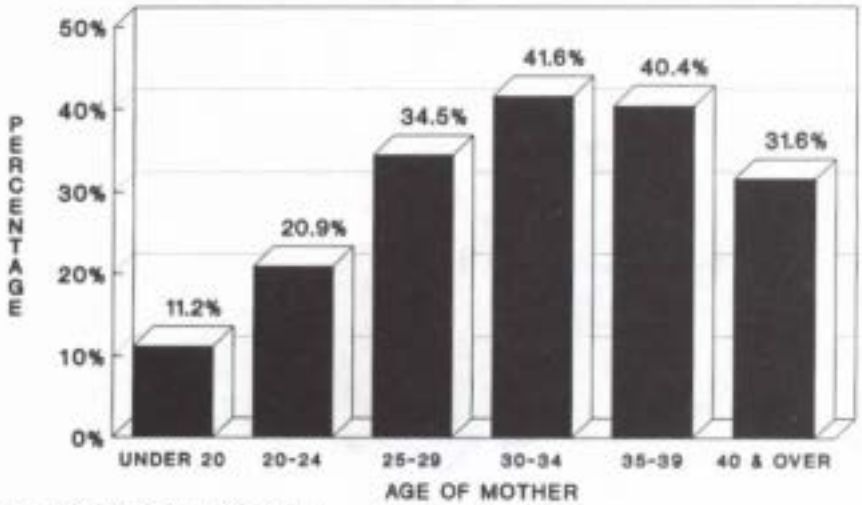
Note: See Appendix D for an explanation of the table format.

FIGURE C3 PERCENTAGE OF MOTHERS BREASTFEEDING BY FATHER'S OCCUPATION, 1992 ***SINGLETON BIRTHS***



Note: See Appendix D, Table 13 for data. 'Not stated' data is not included in the calculation of the percentages.

FIGURE C4 PERCENTAGE OF MOTHERS BREASTFEEDING BY AGE OF MOTHER, 1992 ***SINGLETON BIRTHS***



Note:See Table 33, for data.'Not Stated' data is not included in the calculation of the percentages.

TABLE 34

INTER-HOSPITAL TRANSFER OF INFANTS
LIVE BIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

SINGLETON BIRTHS

INFANT TRANSFERS	LIVE BIRTHS	PERCENT LIVE BIRTHS	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE
TRANSFERRED	347	0.7	31	89.3
NOT TRANSFERRED	47182	95.3	142	3.0
NOT STATED	1956	4.0	0	0.0
TOTAL	49485	100.0	173	3.5

Note: Domiciliary births of which there were 201 are excluded from this table.

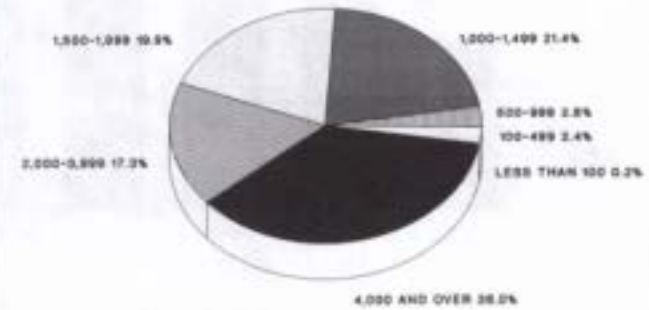
TABLE 35

SIZE OF MATERNITY UNIT
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

SIZE OF MATERNITY UNIT	NUMBER OF HOSPITALS	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
LESS THAN 100	14	96	0.2	0	0.0	0	0.0	0.0	0.0
100-499	5	1226	2.4	6	4.9	4	3.3	8.1	4.9
500-999	2	1397	2.8	13	9.2	5	3.6	12.8	7.8
1000-1499	9	10861	21.4	77	7.0	36	3.3	10.3	8.2
1500-1999	6	10099	19.9	62	6.1	41	4.1	10.1	7.6
2000-3999	3	8748	17.3	56	6.4	28	3.2	9.5	7.4
4000 AND OVER	3	18240	36.0	87	4.7	78	4.3	9.0	5.8
TOTAL	42	50667	100.0	301	5.9	192	3.8	9.7	7.0

Note: This table includes multiple births but excludes domiciliary births of which there were 201. The size of the unit refers to the number of live and still births annually.

FIGURE C5 PERCENTAGE OF LIVE BIRTHS BY SIZE OF MATERNITY UNIT, 1992



Note: See Table 35 for data. The size of unit refers to the number of live and still births occurring annually.

PERINATAL CARE, 1992

PART 2: MULTIPLE BIRTHS

TABLE 36

TYPE OF ANTENATAL CARE
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992
MULTIPLE BIRTHS

TYPE OF ANTENATAL CARE	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
HOSPITAL/OBSTETRICIAN	471	39.8	0	0.0	4	8.5	8.5	8.5
GENERAL PRACTITIONER ONLY	3	0.3	0	0.0	0	0.0	0.0	0.0
HOSPITAL AND G.P. COMBINED	687	58.1	16	22.8	15	21.8	44.1	41.4
NONE	5	0.4	0	0.0	0	0.0	0.0	0.0
NOT STATED	16	1.4	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 37

TIME OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992
MULTIPLE BIRTHS

TIME OF FIRST VISIT (WEEKS)	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0-12	666	56.3	9	13.3	11	16.5	29.6	26.7
13-19	278	23.5	5	17.7	7	25.2	42.4	42.4
20 AND OVER	160	13.5	2	12.3	1	6.3	18.5	18.5
NOT STATED	78	6.6	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 38

MOTHER'S LENGTH OF STAY IN HOSPITAL PRIOR TO DELIVERY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992
MULTIPLE BIRTHS

ANTENATAL LENGTH OF STAY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0-2 DAYS	912	77.2	13	14.1	18	19.7	33.5	31.4
3-5 DAYS	96	8.1	1	10.3	0	0.0	10.3	10.3
6-8 DAYS	67	5.7	0	0.0	0	0.0	0.0	0.0
9-11 DAYS	30	2.5	1	32.3	0	0.0	32.3	32.3
12-14 DAYS	22	1.9	0	0.0	0	0.0	0.0	0.0
2 WEEKS OR MORE	55	4.7	1	17.9	1	18.2	35.7	35.7
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

Note: There were no domiciliary multiple births.

TABLE 39

MOTHER'S LENGTH OF STAY IN HOSPITAL AFTER DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

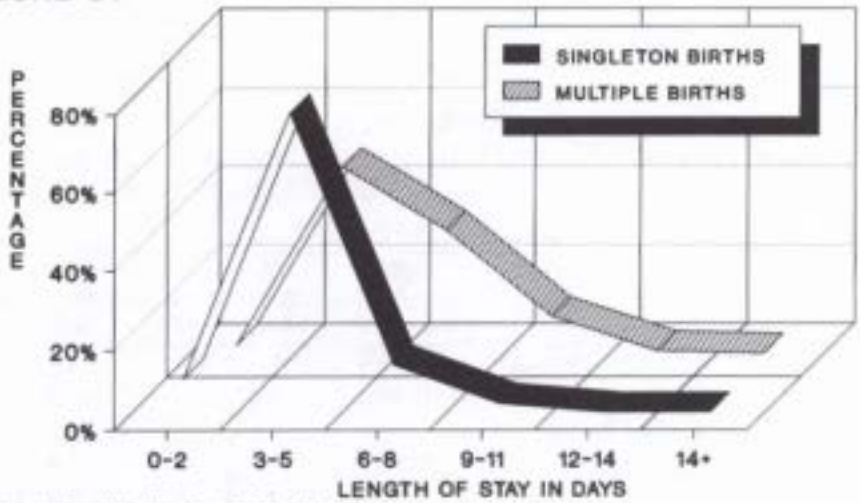
MULTIPLE BIRTHS

POSTNATAL LENGTH OF STAY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
0-2 DAYS	40	3.4	2	47.6	9	225.0	261.9	261.9
3-5 DAYS	562	47.5	5	8.8	9	16.0	24.7	21.2
6-8 DAYS	374	31.6	7	18.4	1	2.7	21.0	21.0
9-11 DAYS	125	10.6	1	7.9	0	0.0	7.9	7.9
12-14 DAYS	23	1.9	1	41.7	0	0.0	41.7	41.7
2 WEEKS OR MORE	19	1.6	0	0.0	0	0.0	0.0	0.0
NOT STATED	39	3.3	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

Note: There were no domiciliary multiple births.

PERCENTAGE DISTRIBUTION OF BIRTHS BY MOTHER'S POSTNATAL LENGTH OF STAY, 1992

FIGURE C6



Note:Includes stillbirths. See Tables 29 & 39. 'Not stated' data is not included in the calculation of the percentages.

TABLE 40

RUBELLA: IMMUNE STATUS OF MOTHER
NUMBERS AND PERCENTAGES, 1992

MULTIPLE BIRTHS

RUBELLA	FREQUENCY	PERCENT
IMMUNE	1059	88.4
NOT IMMUNE	19	1.6
UNKNOWN	116	9.7
NOT STATED	4	0.3
TOTAL	1198	100.0

TABLE 41

METHOD OF DELIVERY
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

METHOD OF DELIVERY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
SPONTANEOUS	478	40.4	6	12.4	8	16.7	28.9	24.9
BREECH/FORCEPS	196	16.6	2	10.1	9	45.9	55.6	55.6
FORCEPS	75	6.3	0	0.0	0	0.0	0.0	0.0
VACUUM EXTRACTION	75	6.3	0	0.0	0	0.0	0.0	0.0
CAESAREAN	348	29.4	8	22.5	2	5.7	28.1	28.1
OTHER, UNSPECIFIED & NOT STATED	10	0.8	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

TABLE 42

ADVANCE HOSPITAL BOOKINGS
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

ADVANCE HOSPITAL BOOKINGS	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
BOOKED	1164	98.5	16	13.6	17	14.6	28.0	26.3
NOT BOOKED	16	1.4	0	0.0	2	125.0	125.0	125.0
NOT STATED	2	0.2	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	16	13.4	19	16.1	29.2	27.6

Note: There were no domiciliary multiple births.

TABLE 43

AGE OF MOTHER BY INFANT'S TYPE OF FEEDING, 1992

MULTIPLE BIRTHS

AGE OF MOTHER	TYPE OF FEEDING			
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	ARTIFICIAL	BREAST	TOTAL
15-19	0 0.00 0.00	14 100.00 1.55	0 0.00 0.00	14 1.18
20-24	4 3.77 11.76	97 91.51 10.73	5 4.72 2.05	106 8.97
25-29	14 3.68 41.18	288 75.79 31.86	78 20.53 31.97	380 32.15
30-34	6 1.44 17.65	306 73.38 33.85	105 25.18 43.03	417 35.28
35-39	7 3.20 20.59	160 73.06 17.70	52 23.74 21.31	219 18.53
40-44	1 2.38 2.94	37 88.10 4.09	4 9.52 1.64	42 3.55
NOT STATED	2 50.00 5.88	2 50.00 0.22	0 0.00 0.00	4 0.34
TOTAL	34 2.88	904 76.48	244 20.64	1182 100.00

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

TABLE 44

INTER-HOSPITAL TRANSFER OF INFANTS
LIVE BIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

INFANT TRANSFERS	LIVE BIRTHS	PERCENT LIVE BIRTHS	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE
TRANSFERRED	33	2.8	4	121.2
NOT TRANSFERRED	1094	92.6	15	13.7
NOT STATED	55	4.7	0	0.0
TOTAL	1182	100.0	19	16.1

Note: There were no domiciliary multiple births.

1992

SECTION D: PERINATAL OUTCOMES

PERINATAL OUTCOMES, 1992

PART 1: SINGLETON BIRTHS

TABLE 45

BIRTHWEIGHT – ALL SINGLETON BIRTHS
LIVE BIRTHS, ANTE AND INTRAPARTUM STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1992

SINGLETON BIRTHS

BIRTHWEIGHT (GRAMMES)	LIVE BIRTHS	PERCENT LIVE BIRTHS	ANTEPARTUM STILL BIRTHS	INTRAPARTUM STILL BIRTHS	NOT STATED	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
500-749	30	0.1	19	6	12	552.2	28	933.3	970.1	968.3
750-999	58	0.1	14	1	7	275.0	17	293.1	487.5	430.6
1000-1249	64	0.1	12	4	5	247.1	14	218.8	411.8	275.4
1250-1499	81	0.2	10	0	2	129.0	12	148.1	258.1	188.2
1500-1999	291	0.6	17	1	8	82.0	13	44.7	123.0	76.4
2000-2499	1082	2.2	19	8	6	29.6	18	16.6	45.7	27.4
2500-2999	5218	10.5	29	10	11	9.5	13	2.5	12.0	9.3
3000-3499	16096	32.4	29	10	9	3.0	23	1.4	4.4	3.0
3500-3999	17575	35.4	10	6	3	1.1	16	0.9	2.0	1.2
4000-4499	7378	14.8	4	4	5	1.8	14	1.9	3.7	2.3
4500 AND OVER	1645	3.3	0	1	1	1.2	1	0.6	1.8	1.2
NOT STATED	168	0.3	0	1	1	11.8	4	23.8	35.3	23.8
TOTAL	49686	100.0	163	52	70	5.7	173	3.5	9.2	6.4

TABLE 46

STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES BY CAUSE OF DEATH, 1992

SINGLETON BIRTHS

ICD CODES	CAUSE OF DEATH	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	TOTAL DEATHS	PERINATAL MORTALITY RATE
	CONGENITAL ANOMALIES						
740	ANENCEPHALUS	17	0.34	15	0.30	32	0.64
741	SPINA BIFIDA	4	0.08	5	0.10	9	0.18
742	OTHER CENTRAL NERVOUS SYSTEM ANOMALIES	6	0.12	7	0.14	13	0.26
745	BULBUS CORDIS AND SEPTAL CLOSURE	0	0.00	3	0.06	3	0.06
746	OTHER CONGENITAL ANOMALIES OF HEART	3	0.06	23	0.46	26	0.52
747	OTHER CONGENITAL ANOMALIES OF CIRCULATORY SYSTEM	0	0.00	2	0.04	2	0.04
748	CONGENITAL ANOMALIES OF RESPIRATORY SYSTEM	1	0.02	5	0.10	6	0.12
749-751	CLEFT PALATE & LIP; OTHER DIGESTIVE SYSTEM ANOMALIES	0	0.00	2	0.04	2	0.04
753	CONGENITAL ANOMALIES OF URINARY SYSTEM	1	0.02	10	0.20	11	0.22
754-756	CONGENITAL ANOMALIES OF MUSCULOSKELETAL SYSTEM	2	0.04	10	0.20	12	0.24
758	CHROMOSOMAL ANOMALIES INCLUDING DOWN'S SYNDROME	6	0.12	8	0.16	14	0.28
743-744,752 757,759	OTHER CONGENITAL ANOMALIES	6	0.12	4	0.08	10	0.20
	MATERNAL CONDITIONS AND COMPLICATIONS IN PREGNANCY						
760.0	MATERNAL HYPERTENSIVE DISORDERS	5	0.10	2	0.04	7	0.14
760.1-761.9	OTHER MATERNAL COMPLICATIONS	3	0.06	0	0.00	3	0.06
762.1	OTHER PLACENTAL SEPARATION AND HAEMORRHAGE	31	0.62	1	0.02	32	0.64

TABLE 46 — continued

STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES BY CAUSE OF DEATH, 1992

SINGLETON BIRTHS

ICD CODES	CAUSE OF DEATH	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	TOTAL DEATHS	PERINATAL MORTALITY RATE
762.2	OTHER MORPHOLOGICAL AND FUNCTIONAL ABNORMALITIES OF PLACENTA	32	0.64	1	0.02	33	0.66
762.4	PROLAPSED CORD	2	0.04	0	0.00	2	0.04
762.5	OTHER COMPRESSION OF UMBILICAL CORD	11	0.22	0	0.00	11	0.22
762.6-762.9	OTHER COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	3	0.06	0	0.00	3	0.06
763.0	BREECH DELIVERY & EXTRACTION	1	0.02	1	0.02	2	0.04
763.1	OTHER MALPRESENTATION, MALPOSITION AND DISPROPORTION	2	0.04	0	0.00	2	0.04
763.2-763.9	OTHER COMPLICATIONS OF LABOUR AND DELIVERY	1	0.02	0	0.00	1	0.02
	SLOW FETAL GROWTH, FETAL MALNUTRITION AND IMMATURITY						
764	SLOW FETAL GROWTH AND FETAL MALNUTRITION	1	0.02	0	0.00	1	0.02
765	SHORT GESTATION AND UNSPECIFIED LOW BIRTHWEIGHT DISORDERS	16	0.32	22	0.44	38	0.76
	BIRTH TRAUMA						
767	BIRTH TRAUMA	0	0.00	1	0.02	1	0.02
768	INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA	57	1.14	11	0.22	68	1.36
769	RESPIRATORY DISTRESS SYNDROME	0	0.00	15	0.30	15	0.30
770	RESPIRATORY CONDITIONS OF FETUS/NEWBORN	4	0.08	9	0.18	13	0.26

TABLE 46 — continued

STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES BY CAUSE OF DEATH, 1992

SINGLETON BIRTHS

ICD CODES	CAUSE OF DEATH	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	TOTAL DEATHS	PERINATAL MORTALITY RATE
	OTHER FETAL AND NEONATAL CONDITIONS						
771	INFECTIONS SPECIFIC TO PERINATAL PERIOD	1	0.02	1	0.02	2	0.04
772	FETAL AND NEONATAL HAEMORRHAGE	2	0.04	3	0.06	5	0.10
773	HAEMOLYTIC DISEASES DUE TO ISOIMMUNISATION	1	0.02	2	0.04	3	0.06
775	METABOLIC AND ENDOCRINE DISTURBANCES	2	0.04	0	0.00	2	0.04
778	INTEGUMENT AND TEMPERATURE REGULATION CONDITIONS	2	0.04	4	0.08	6	0.12
	MACERATION, ILL-DEFINED CONDITIONS AND ALL OTHER CAUSES						
779.9	MACERATION	44	0.88	0	0.00	44	0.88
780-796, 799	SYMPTOMS, SIGNS, AND ILL-DEFINED CONDITIONS	17	0.34	0	0.00	17	0.34
	ALL OTHER CAUSES	1	0.02	6	0.12	7	0.14
	TOTAL	285	5.70	173	3.48	458	9.17

TABLE 47

CAUSE OF DEATH BY BIRTHWEIGHT, NUMBERS AND RATES, 1992

SINGLETON BIRTHS

BIRTHWEIGHT (GRAMMES)	ANENCEPHALUS		SPINA BIFIDA		OTHER CENTRAL NERVOUS SYSTEMS ABNORMALITIES		CONGENITAL ANOMALIES OF THE HEART		CHROMOSONAL ANOMALIES	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	2	29.9	0	0.0	0	0.0	0	0.0	1	14.9
750-999	2	25.0	0	0.0	1	12.5	0	0.0	2	25.0
1000-1249	7	82.4	1	11.8	0	0.0	1	11.8	0	0.0
1250-1499	3	32.3	2	21.5	0	0.0	0	0.0	2	21.5
1500-1999	7	22.1	0	0.0	1	3.2	0	0.0	2	6.3
2000-2499	5	4.5	1	0.9	2	1.8	3	2.7	1	0.9
2500-2999	3	0.6	0	0.0	0	0.0	6	1.1	3	0.6
3000-3499	2	0.1	3	0.2	4	0.2	9	0.6	1	0.1
3500-3999	1	0.1	0	0.0	3	0.2	6	0.3	1	0.1
4000-4499	0	0.0	1	0.1	1	0.1	6	0.8	0	0.0
4500 AND OVER	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0
NOT STATED	0	0.0	1	5.9	0	0.0	0	0.0	1	5.9
TOTAL	32	0.6	9	0.2	13	0.3	31	0.6	14	0.3

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

TABLE 47 — continued

CAUSE OF DEATH BY BIRTHWEIGHT, NUMBERS AND RATES, 1992

SINGLETON BIRTHS

BIRTHWEIGHT (GRAMMES)	OTHER CONGENITAL ANOMALIES		MATERNAL COMPLICATIONS		PLACENTA, CORD, MEMBRANES		OTHER COMPLICATIONS OF LABOUR		SLOW FETAL GROWTH		BIRTH TRAUMA	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	1	14.9	2	29.9	14	209.0	1	14.9	24	358.2	0	0.0
750-999	3	37.5	0	0.0	5	62.5	0	0.0	8	100.0	1	12.5
1000-1249	8	94.1	1	11.8	3	35.3	1	11.8	3	35.3	0	0.0
1250-1499	1	10.8	2	21.5	4	43.0	0	0.0	3	32.3	0	0.0
1500-1999	6	18.9	0	0.0	11	34.7	0	0.0	0	0.0	0	0.0
2000-2499	10	9.0	0	0.0	9	8.1	1	0.9	0	0.0	0	0.0
2500-2999	3	0.6	2	0.4	16	3.0	0	0.0	1	0.2	0	0.0
3000-3499	4	0.2	1	0.1	14	0.9	0	0.0	0	0.0	0	0.0
3500-3999	3	0.2	2	0.1	2	0.1	1	0.1	0	0.0	0	0.0
4000-4499	2	0.3	0	0.0	3	0.4	0	0.0	0	0.0	0	0.0
4500 AND OVER	0	0.0	0	0.0	0	0.0	1	0.6	0	0.0	0	0.0
NOT STATED	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	41	0.8	10	0.2	81	1.6	5	0.1	39	0.8	1	0.0

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

TABLE 47 — continued

CAUSE OF DEATH BY BIRTHWEIGHT, NUMBERS AND RATES, 1992

SINGLETON BIRTHS

BIRTHWEIGHT (GRAMMES)	HYPOXIA, ANOXIA		PERINATAL INFECTIONS		FETAL/ NEONATAL HAEMORRHAGE		HAEMOLYTIC DISEASES		METABOLIC, ENDOCRINE DISTURBANCES		INTEGUMENT, TEMPERATURE REGULATION	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	8	119.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
750-999	9	112.5	1	12.5	0	0.0	1	12.5	0	0.0	1	12.5
1000-1249	6	70.6	0	0.0	2	23.5	0	0.0	0	0.0	1	11.8
1250-1499	5	53.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
1500-1999	7	22.1	0	0.0	0	0.0	1	3.2	0	0.0	0	0.0
2000-2499	9	8.1	0	0.0	0	0.0	0	0.0	0	0.0	2	1.8
2500-2999	12	2.3	0	0.0	1	0.2	0	0.0	0	0.0	0	0.0
3000-3499	21	1.3	1	0.1	0	0.0	0	0.0	0	0.0	0	0.0
3500-3999	9	0.5	0	0.0	0	0.0	1	0.1	0	0.0	1	0.1
4000-4499	7	0.9	0	0.0	1	0.1	0	0.0	2	0.3	0	0.0
4500 AND OVER	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NOT STATED	2	11.8	0	0.0	1	5.9	0	0.0	0	0.0	1	5.9
TOTAL	96	1.9	2	0.0	5	0.1	3	0.1	2	0.0	6	0.1

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

TABLE 47 — continued

CAUSE OF DEATH BY BIRTHWEIGHT, NUMBERS AND RATES, 1992

SINGLETON BIRTHS

BIRTHWEIGHT (GRAMMES)	MACERATION		SYMPTOMS, ILL-DEFINED CONDITIONS		ALL OTHER CAUSES		ALL CAUSES OF PERINATAL MORTALITY	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	6	89.6	5	74.6	1	14.9	65	970.1
750-999	3	37.5	0	0.0	2	25.0	39	487.5
1000-1249	0	0.0	1	11.8	0	0.0	35	411.8
1250-1499	2	21.5	0	0.0	0	0.0	24	258.1
1500-1999	2	6.3	1	3.2	1	3.2	39	123.0
2000-2499	7	6.3	1	0.9	0	0.0	51	45.7
2500-2999	9	1.7	6	1.1	1	0.2	63	12.0
3000-3499	8	0.5	1	0.1	2	0.1	71	4.4
3500-3999	4	0.2	1	0.1	0	0.0	35	2.0
4000-4499	3	0.4	1	0.1	0	0.0	27	3.7
4500 AND OVER	0	0.0	0	0.0	0	0.0	3	1.8
NOT STATED	0	0.0	0	0.0	0	0.0	6	35.3
TOTAL	44	0.9	17	0.3	7	0.1	458	9.2

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

TABLE 48

AGE AT DEATH
EARLY NEONATAL DEATHS, 1992

SINGLETON BIRTHS

TIME		FREQUENCY	PERCENT
HOURS	1	37	21.4
	2	16	9.2
	3	6	3.5
	4	6	3.5
	5	3	1.7
	6	2	1.2
	7	1	0.6
	8	3	1.7
	9	3	1.7
	11	3	1.7
	12	2	1.2
	13	1	0.6
	14	1	0.6
	15	1	0.6
	16	1	0.6
	17	2	1.2
	18	1	0.6
	19	2	1.2
	22	1	0.6
	23	1	0.6
TOTAL	UNDER 1 DAY	93	53.8
DAYS	1	21	12.1
	2	18	10.4
	3	16	9.2
	4	12	6.9
	5	5	2.9
	6	7	4.0
TOTAL		172	99.4
NOT STATED		1	0.6
GRAND TOTAL		173	100.0

TABLE 49

PERCENTAGE DISTRIBUTION OF LIVE BIRTHS
BY INFANT'S LENGTH OF STAY IN HOSPITAL, 1992

SINGLETON BIRTHS

INFANT'S LENGTH OF STAY(DAYS)	LIVE BIRTHS	PERCENT LIVE BIRTHS
0-2	4023	8.2
3-5	36300	73.6
6-10	7090	14.4
11-28	830	1.7
29 OR MORE	147	0.3
NOT STATED	922	1.9
TOTAL	49312	100.0

Note: This table excludes domiciliary births and early neonatal deaths.

TABLE 50

PERCENTAGE OF STILLBIRTHS AND EARLY NEONATAL DEATHS
UNDERGOING POSTMORTEMS, 1992

SINGLETON BIRTHS

POSTMORTEM	TYPE OF DEATH		
FREQUENCY ROW PERCENT COL PERCENT	EARLY INEONATAL DEATHS	STILL BIRTHS	TOTAL
POSTMORTEM	107 36.77 61.85	184 63.23 64.56	291 63.54
NO POSTMORTEM	38 36.19 21.97	67 63.81 23.51	105 22.93
NOT STATED	28 45.16 16.18	34 54.84 11.93	62 13.54
TOTAL	173 37.77	285 62.23	458 100.00

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

PERINATAL OUTCOMES, 1992

PART 2: MULTIPLE BIRTHS

TABLE 51

BIRTHWEIGHT – ALL MULTIPLE BIRTHS
LIVE BIRTHS, ANTE AND INTRAPARTUM STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1992

MULTIPLE BIRTHS

BIRTHWEIGHT (GRAMMES)	LIVE BIRTHS	PERCENT LIVE BIRTHS	ANTEPARTUM STILL BIRTHS	INTRAPARTUM STILL BIRTHS	NOT STATED	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
500-749	14	1.2	3	0	0	176.5	11	785.7	823.5	800.0
750-999	12	1.0	0	0	0	0.0	7	583.3	583.3	583.3
1000-1249	11	0.9	1	0	1	153.8	1	90.9	230.8	230.8
1250-1499	27	2.3	1	0	0	35.7	0	0.0	35.7	35.7
1500-1999	133	11.3	2	0	1	22.1	0	0.0	22.1	22.1
2000-2499	290	24.5	1	0	1	6.8	0	0.0	6.8	6.8
2500-2999	411	34.8	2	0	0	4.8	0	0.0	4.8	4.8
3000-3499	236	20.0	1	0	1	8.4	0	0.0	8.4	8.4
3500-3999	39	3.3	0	1	0	25.0	0	0.0	25.0	25.0
4000-4499	4	0.3	0	0	0	0.0	0	0.0	0.0	0.0
NOT STATED	5	0.4	0	0	0	0.0	0	0.0	0.0	0.0
TOTAL	1182	100.0	11	1	4	13.4	19	16.1	29.2	27.6

TABLE 52

CAUSE OF DEATH
STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES BY CAUSE OF DEATH, 1992

MULTIPLE BIRTHS

CAUSE OF DEATH	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	TOTAL DEATHS	PERINATAL MORTALITY RATE
OTHER CONGENITAL ANOMALIES	2	1.67	1	0.85	3	2.50
MATERNAL CONDITIONS AND COMPLICATIONS	0	0.00	1	0.85	1	0.83
COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	4	3.34	2	1.69	6	5.00
OTHER COMPLICATIONS OF LABOUR AND DELIVERY	1	0.83	0	0.00	1	0.83
SLOW FETAL GROWTH, MALNUTRITION AND IMMATURITY	2	1.67	8	6.77	10	8.35
INTRAUTERINE HYPOXIA, BIRTH ASPHYXIA AND OTHER RESPIRATORY CONDITIONS OF FETUS OR NEWBORN	2	1.67	5	4.23	7	5.84
MACERATION	3	2.50	0	0.00	3	2.50
SYMPTOMS, SIGNS,AND ILL-DEFINED CONDITIONS	1	0.83	1	0.85	2	1.67
ALL OTHER CAUSES	1	0.83	1	0.85	2	1.67
TOTAL	16	13.36	19	16.07	35	29.22

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

TABLE 53

CAUSE OF DEATH BY BIRTHWEIGHT, 1992

MULTIPLE BIRTHS

CAUSE OF DEATH	BIRTHWEIGHT(GRAMMES)									
	500-749	750-999	1000-1249	1250-1499	1500-1999	2000-2499	2500-2999	3000-3499	3500-3999	TOTAL
OTHER CONGENITAL ANOMALIES	3	0	0	0	0	0	0	0	0	3
MATERNAL CONDITIONS AND COMPLICATIONS	1	0	0	0	0	0	0	0	0	1
COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	1	1	0	0	0	1	2	1	0	6
OTHER COMPLICATIONS OF LABOUR AND DELIVERY	0	0	0	0	0	0	0	0	1	1
SLOW FETAL GROWTH, MALNUTRITION AND IMMATURITY	7	2	1	0	0	0	0	0	0	10
INTERAUTERINE HYPOXIA, BIRTH ASPHYXIA AND OTHER RESPIRATORY CONDITIONS OF FETUS OR NEWBORN	2	3	0	1	0	1	0	0	0	7
MACERATION	0	0	1	0	1	0	0	1	0	3
SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS	0	1	0	0	1	0	0	0	0	2
ALL OTHER CAUSES	0	0	1	0	1	0	0	0	0	2
TOTAL	14	7	3	1	3	2	2	2	1	35

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

TABLE 54

AGE AT DEATH
EARLY NEONATAL DEATHS, 1992

MULTIPLE BIRTHS

TIME		FREQUENCY	PERCENT
HOURS	1	4	21.1
	2	1	5.3
	4	1	5.3
	5	1	5.3
	9	1	5.3
	10	1	5.3
	11	1	5.3
	13	2	10.5
	22	1	5.3
TOTAL	UNDER 1 DAY	13	68.4
DAYS	1	3	15.8
	2	1	5.3
	4	1	5.3
	6	1	5.3
GRAND TOTAL		19	100.0

TABLE 55

PERCENTAGE DISTRIBUTION OF LIVE BIRTHS
BY INFANT'S LENGTH OF STAY IN HOSPITAL, 1992

MULTIPLE BIRTHS

INFANT'S LENGTH OF STAY(DAYS)	LIVE BIRTHS	PERCENT LIVE BIRTHS
0-2	21	1.8
3-5	388	33.4
6-10	382	32.8
11-28	155	13.3
29 OR MORE	53	4.6
NOT STATED	164	14.1
TOTAL	1163	100.0

Note: This table excludes domiciliary births and early neonatal deaths.

TABLE 56

PERCENTAGE OF STILLBIRTHS AND EARLY NEONATAL DEATHS
UNDERGOING POSTMORTEMS, 1992

MULTIPLE BIRTHS

POSTMORTEM	TYPE OF DEATH		
FREQUENCY ROW PERCENT COL PERCENT	EARLY NEONATAL DEATHS	STILL BIRTHS	TOTAL
POSTMORTEM	14 56.00 73.68	11 44.00 68.75	25 71.43
NO POSTMORTEM	5 55.56 26.32	4 44.44 25.00	9 25.71
NOT STATED	0 0.00 0.00	1 100.00 6.25	1 2.86
TOTAL	19 54.29	16 45.71	35 100.00

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

APPENDICES

APPENDIX A

COPIES OF NOTIFICATION OF BIRTH FORMS

1) Part 3 of the Standard Notification Form.

NOTIFICATION OF BIRTH—

1 To: The Planning Unit, Department of Health, Hawkins House, Dublin 2. 12

NAME AND ADDRESS OF HOSPITAL

LIVE BIRTH ☐

LATE FETAL DEATH ☐ 2

HOSPITAL No. 3

CASE No. 4

INFANT

DATE OF BIRTH 13

IF MULTIPLE BIRTH ORDER OF BIRTH No. 14 15 16

TIME OF BIRTH

[redacted]

SEX (Male = 1, Female = 2, Indeterminate = 3) 20

BIRTH WEIGHT 21 GRAMMES

PERIOD OF GESTATION 22 WEEKS

FATHER

[redacted]

COUNTY: 23

OCCUPATION 24

MOTHER

[redacted]

COUNTY: 31

DATE OF BIRTH 32

MARITAL STATUS (Married = 1, Single = 2, Widowed = 3, Separated = 4, Divorced = 5) 33

DATE OF MARRIAGE 34

DATE OF LAST BIRTH 35

NO. OF PREVIOUS LIVE BIRTHS 36

NO. OF PREVIOUS CHILDREN STILL LIVING 37

NO. OF PREVIOUS LATE FETAL DEATHS 38

NO. OF PREVIOUS ABORTIONS 39

PERINATAL DEATH

TYPE OF DEATH (Early Neonatal = 1, Late Fetal = 2) 40

WAS AUTOPSY PERFORMED (Yes = 1, No = 2) 41

AGE AT DEATH 42 DAYS 43 HOURS

PLACE OF DEATH 44

IF LFD, DID DEATH OCCUR BEFORE LABOUR (1) DURING LABOUR (2) NOT KNOWN (3) 45

CAUSE OF DEATH

MAIN DISEASE OR CONDITION IN FETUS OR INFANT 46

OTHER DISEASES OR CONDITIONS IN FETUS OR INFANT 47

MAIN MATERNAL DISEASE OR CONDITION AFFECTING FETUS OR INFANT 48

OTHER MATERNAL DISEASE OR CONDITION AFFECTING FETUS OR INFANT 49

2 DUPLICATE 2—11 FROM CARD 1

MOTHER'S HEALTH

ANTE NATAL CARE THIS PREGNANCY (Hosp./Obstet. = 1, G.P. Only = 2, Combined = 3, None = 4) 50

DATE OF FIRST VISIT TO DOCTOR DURING PREGNANCY 51

DATE OF FIRST VISIT TO HOSPITAL DURING PREGNANCY 52

WAS MOTHER IMMUNE TO RUBELLA (Yes = 1, No = 2, Unknown = 3) 53

METHOD OF DELIVERY (Spontaneous = 1, Breech±Forceps = 2, Forceps = 3, Vac. Extraction = 4, Caesarean Sec. = 5, Other = 6) 54

MAIN MATERNAL DISEASE OR CONDITON AFFECTING FETUS OR INFANT 55

OTHER MATERNAL DISEASE OR CONDITION AFFECTING FETUS OR INFANT 56

INFANT'S HEALTH

TYPE OF FEEDING (Artificial = 1, Breast = 2) 57

WAS BCG ADMINISTERED (Yes = 1, No = 2) 58

MAIN DISEASE OR CONGENITAL MALFORMATION AFFECTING INFANT 59

OTHER DISEASES OR CONGENITAL MALFORMATIONS AFFECTING INFANT 60

HOSPITAL

WAS ADMISSION BOOKED (Yes = 1, No = 2) 61

DATE OF MOTHER'S ADMISSION 62

DATE OF MOTHER'S DISCHARGE 63

DATE OF INFANT'S DISCHARGE 64

WAS INFANT TRANSFERRED TO OTHER HOSPITAL FOR MEDICAL REASONS (Yes = 1, No = 2) 65

IF 'YES', NAME OF HOSPITAL 66

SIGNATURE

DATE

2) Part 2 of the Domiciliary Notification Form.

1 **NOTIFICATION OF BIRTH—To: The Registrar of Births** 12

LIVE BIRTH ☐

LATE FETAL DEATH ☐ 2

DOMICILIARY NO. 3

CASE NO. 6

ADDRESS WHERE BIRTH OCCURRED

INFANT

DATE OF BIRTH: 13

IF MULTIPLE BIRTH

ORDER OF BIRTH No. 19 of 20

TIME OF BIRTH:

NAME:

SEX: (Male = 1, Female = 2, Indeterminate = 3) 21

BIRTH WEIGHT: 22 GRAMMES

PERIOD OF GESTATION 26 WEEKS

FATHER

FULL NAME AND ADDRESS

COUNTY 28

OCCUPATION 31

MOTHER

NAME, SURNAME

MAIDEN SURNAME

ADDRESS

COUNTY 34

DATE OF BIRTH: 38

MARITAL STATUS (Married = 1, Single = 2, Widowed = 3, Separated = 4, Divorced = 5) 44

DATE OF MARRIAGE 45

DATE OF LAST BIRTH: 51

NO. OF PREVIOUS LIVE BIRTHS 57

NO. OF PREVIOUS CHILDREN STILL LIVING 59

NO. OF PREVIOUS LATE FETAL DEATHS 61

NO. OF PREVIOUS ABORTIONS 63

FOR OFFICIAL USE ONLY

65

66

67 DAYS 68 HOURS

70

73

74

78

CONFIDENTIAL — This form is required for registration and statistical purposes and will be treated as strictly confidential. It should be filled in by the person requiring the birth to be registered and handed to the Registrar in accordance with the Vital Statistics Regulations, 1954 and the Vital Statistics (Amendment) Regulations 1957.

THIS SECTION TO BE COMPLETED BY THE REGISTRAR OF BIRTHS ONLY

DATE OF REGISTRATION 82

ENTRY NO. IN REGISTER 86

80

REGISTRAR'S STAMP

SIGNATURE OF REGISTRAR OF BIRTHS

The Registrar should check that this return pertains to a live birth, enter the appropriate details in the Register and then forward the form to the Central Statistics Office.

SIGNATURE DATE

APPENDIX B

CLASSIFICATION OF FATHER'S OCCUPATION

Occupations have been coded and classified into a set of socio-economic groups according to the system employed by the Central Statistics Office in the analysis of the 1991 Census of Population (see Census 1991, vol.6). The final CSO category of 'Unknown' has been differentiated into four distinct groups for the purposes of the Perinatal Reporting System. These are 'Unemployed', 'Not classifiable', 'Not applicable', and 'Not stated'. Father's 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 father's 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. '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. If an occupation is given for the father then the appropriate occupational code has been used. '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. 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

NOT STATED

The need is recognised for the collection of parallel information on mother's occupation, and it is planned to incorporate this variable onto the birth notification form at the time of its next revision.

APPENDIX C

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). 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 fetus 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 fetus 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 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 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 fetus died before the onset of labour, then obstetrical complications that could not have affected the outcome are ignored as causes of death.

For the purposes 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.

In Table 46 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 47, 52 and 53), 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 nervous system
745-747	Congenital anomalies of heart

ICD CODES	CAUSE OF DEATH
758	Chromosomal anomalies (including Down's syndrome)
743-744 748-757,759	Other congenital anomalies
760	Maternal conditions and complications
762	Complications of placenta, cord and membranes
763	Other complications of labour and delivery
764-765	Slow fetal growth, fetal 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 fetus or newborn
771	Infections specific to the perinatal period
772	Fetal and neonatal haemorrhage
773	Haemolytic disease of fetus or newborn, due to isoimmunisation
775	Endocrine and metabolic disturbances specific to the fetus and newborn
778	Conditions involving the integument and temperature regulation of fetus 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 D

CROSS-TABULATIONS OF SELECTED VARIABLES: 1992

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 and left. 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 1

AGE OF MOTHER BY MATERNAL PARITY, 1992

SINGLETON BIRTHS

AGE OF MOTHER	MATERNAL PARITY									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0	1	2	3	4	5	6	MORE THAN 6	TOTAL
UNDER 15	0 0.00 0.00	7 100.00 0.04	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	0 0.00 0.00	7 0.01
15-19	9 0.33 7.32	2427 89.33 13.73	237 8.72 1.68	39 1.44 0.44	4 0.15 0.09	1 0.04 0.05	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	2717 5.44
20-24	16 0.20 13.01	4664 59.65 26.38	2219 28.38 15.76	665 8.50 7.43	182 2.33 3.92	55 0.70 2.50	14 0.18 1.30	4 0.05 0.75	0 0.00 0.00	7819 15.65
25-29	33 0.22 26.83	6112 40.33 34.57	5088 33.58 36.13	2449 16.16 27.36	952 6.28 20.51	343 2.26 15.60	116 0.77 10.75	40 0.26 7.48	21 0.14 3.10	15154 30.33
30-34	25 0.16 20.33	3410 22.47 19.29	4886 32.20 34.69	3726 24.56 41.62	1753 11.55 37.77	759 5.00 34.52	329 2.17 30.49	149 0.98 27.85	137 0.90 20.21	15174 30.37
35-39	13 0.18 10.57	836 11.59 4.73	1410 19.55 10.01	1799 24.94 20.10	1436 19.91 30.94	787 10.91 35.79	429 5.95 39.76	210 2.91 39.25	294 4.08 43.36	7214 14.44
40-44	4 0.25 3.25	131 8.28 0.74	190 12.01 1.35	231 14.60 2.58	289 18.27 6.23	238 15.04 10.82	173 10.94 16.03	123 7.77 22.99	203 12.83 29.94	1582 3.17
45 AND OVER	0 0.00 0.00	3 3.66 0.02	3 3.66 0.02	15 18.29 0.17	12 14.63 0.26	9 10.98 0.41	11 13.41 1.02	8 9.76 1.50	21 25.61 3.10	82 0.16
NOT STATED	23 10.36 18.70	90 40.54 0.51	51 22.97 0.36	28 12.61 0.31	13 5.86 0.28	7 3.15 0.32	7 3.15 0.65	1 0.45 0.19	2 0.90 0.29	222 0.44
TOTAL	123 0.25	17680 35.38	14084 28.18	8952 17.91	4641 9.29	2199 4.40	1079 2.16	535 1.07	678 1.36	49971 100.00

TABLE 2

METHOD OF DELIVERY MATERNAL PARITY, 1992

SINGLETON BIRTHS

METHOD OF DELIVERY	MATERNAL PARITY									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0	1	2	3	4	5	6	MORE THAN 6	TOTAL
SPONTANEOUS	75 0.21 60.98	10247 28.07 57.96	11116 30.45 78.93	7394 20.26 82.60	3892 10.66 83.86	1876 5.14 85.31	901 2.47 83.50	442 1.21 82.62	557 1.53 82.15	36500 73.04
BREECH/FORCEPS	3 0.40 2.44	354 46.89 2.00	191 25.30 1.36	110 14.57 1.23	46 6.09 0.99	15 1.99 0.68	14 1.85 1.30	9 1.19 1.68	13 1.72 1.92	755 1.51
FORCEPS	5 0.12 4.07	3044 74.30 17.22	688 16.79 4.88	217 5.30 2.42	91 2.22 1.96	30 0.73 1.36	12 0.29 1.11	5 0.12 0.93	5 0.12 0.74	4097 8.20
VACUUM EXTRACTION	5 0.21 4.07	1364 57.85 7.71	510 21.63 3.62	259 10.98 2.89	117 4.96 2.52	59 2.50 2.68	25 1.06 2.32	6 0.25 1.12	13 0.55 1.92	2358 4.72
CAESAREAN	13 0.22 10.57	2520 43.27 14.25	1469 25.22 10.43	904 15.52 10.10	452 7.76 9.74	197 3.38 8.96	119 2.04 11.03	65 1.12 12.15	85 1.46 12.54	5824 11.65
OTHER, UNSPECIFIED AND NOT STATED	22 5.03 17.89	151 34.55 0.85	110 25.17 0.78	68 15.56 0.76	43 9.84 0.93	22 5.03 1.00	8 1.83 0.74	8 1.83 1.50	5 1.14 0.74	437 0.87
TOTAL	123 0.25	17680 35.38	14084 28.18	8952 17.91	4641 9.29	2199 4.40	1079 2.16	535 1.07	678 1.36	49971 100.00

TABLE 3

MARITAL STATUS BY AGE OF MOTHER, 1992

SINGLETON BIRTHS

MARITAL STATUS	AGE OF MOTHER									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	UNDER 15	15-19	20-24	25-29	30-34	35-39	40-44	45 AND OVER	TOTAL
MARRIED	162 0.40 72.97	0 0.00 0.00	277 0.68 10.20	4064 9.96 51.98	13575 33.27 89.58	14358 35.19 94.62	6802 16.67 94.29	1480 3.63 93.55	81 0.20 98.78	40799 81.65
SINGLE	55 0.67 24.77	7 0.08 100.00	2437 29.49 89.69	3676 44.49 47.01	1338 16.19 8.83	517 6.26 3.41	190 2.30 2.63	42 0.51 2.65	1 0.01 1.22	8263 16.54
SEPARATED	3 0.38 1.35	0 0.00 0.00	3 0.38 0.11	73 9.28 0.93	203 25.79 1.34	266 33.80 1.75	188 23.89 2.61	51 6.48 3.22	0 0.00 0.00	787 1.57
DIVORCED	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	1 1.85 0.01	9 16.67 0.06	21 38.89 0.14	18 33.33 0.25	5 9.26 0.32	0 0.00 0.00	54 0.11
NOT STATED	2 2.94 0.90	0 0.00 0.00	0 0.00 0.00	5 7.35 0.06	29 42.65 0.19	12 17.65 0.08	16 23.53 0.22	4 5.88 0.25	0 0.00 0.00	68 0.14
TOTAL	222 0.44	7 0.01	2717 5.44	7819 15.65	15154 30.33	15174 30.37	7214 14.44	1582 3.17	82 0.16	49971 100.00

TABLE 4

GESTATION PERIOD AT DELIVERY BY MATERNAL PARITY, 1992

SINGLETON BIRTHS

GESTATION PERIOD (WEEKS)	MATERNAL PARITY									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0	1	2	3	4	5	6	MORE THAN 6	TOTAL
LESS THAN 22	0 0.00 0.00	2 66.67 0.01	1 33.33 0.01	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	3 0.01
22-27	0 0.00 0.00	55 43.65 0.31	25 19.84 0.18	25 19.84 0.28	9 7.14 0.19	9 7.14 0.41	1 0.79 0.09	2 1.59 0.37	0 0.00 0.00	126 0.25
28-31	1 0.36 0.81	124 44.93 0.70	65 23.55 0.46	39 14.13 0.44	19 6.88 0.41	11 3.99 0.50	5 1.81 0.46	4 1.45 0.75	8 2.90 1.18	276 0.55
32-36	8 0.48 6.50	719 43.31 4.07	348 20.96 2.47	247 14.88 2.76	139 8.37 3.00	99 5.96 4.50	38 2.29 3.52	22 1.33 4.11	40 2.41 5.90	1660 3.32
37-41	89 0.20 72.36	15036 34.38 85.05	12567 28.73 89.23	8019 18.33 89.58	4126 9.43 88.90	1923 4.40 87.45	940 2.15 87.12	469 1.07 87.66	569 1.30 83.92	43738 87.53
42 AND OVER	25 0.60 20.33	1741 41.80 9.85	1078 25.88 7.65	622 14.93 6.95	348 8.36 7.50	157 3.77 7.14	95 2.28 8.80	38 0.91 7.10	61 1.46 9.00	4165 8.33
NOT STATED	0 0.00 0.00	3 100.00 0.02	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	0 0.00 0.00	3 0.01
TOTAL	123 0.25	17680 35.38	14084 28.18	8952 17.91	4641 9.29	2199 4.40	1079 2.16	535 1.07	678 1.36	49971 100.00

TABLE 5

AGE OF MOTHER BY GESTATION PERIOD AT DELIVERY, 1992

SINGLETON BIRTHS

AGE OF MOTHER	GESTATION PERIOD (WEEKS)							
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	LESS THAN 22	22-27	28-31	32-36	37-41	42 AND OVER	TOTAL
UNDER 15	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	6 85.71 0.01	1 14.29 0.02	7 0.01
15-19	0 0.00 0.00	0 0.00 0.00	13 0.48 10.32	27 0.99 9.78	172 6.33 10.36	2244 82.59 5.13	261 9.61 6.27	2717 5.44
20-24	0 0.00 0.00	1 0.01 33.33	18 0.23 14.29	54 0.69 19.57	295 3.77 17.77	6698 85.66 15.31	753 9.63 18.08	7819 15.65
25-29	3 0.02 100.00	0 0.00 0.00	42 0.28 33.33	64 0.42 23.19	437 2.88 26.33	13171 86.91 30.11	1437 9.48 34.50	15154 30.33
30-34	0 0.00 0.00	1 0.01 33.33	29 0.19 23.02	72 0.47 26.09	441 2.91 26.57	13520 89.10 30.91	1111 7.32 26.67	15174 30.37
35-39	0.00 0.00 0.00	1 0.01 33.33	20 0.28 15.87	49 0.68 17.75	229 3.17 13.80	6444 89.33 14.73	471 6.53 11.31	7214 14.44
40-44	0.00 0.00 0.00	0 0.00 0.00	3 0.19 2.38	9 0.57 3.26	76 4.80 4.58	1402 88.62 3.21	92 5.82 2.21	1582 3.17
45 AND OVER	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	1 1.22 0.06	74 90.24 0.17	7 8.54 0.17	82 0.16
NOT STATED	0 0.00 0.00	0 0.00 0.00	1 0.45 0.79	1 0.45 0.36	9 4.05 0.54	179 80.63 0.41	32 14.41 0.77	222 0.44
TOTAL	3 0.01	3 0.01	126 0.25	276 0.55	1660 3.32	43738 87.53	4165 8.33	49971 100.00

TABLE 6

METHOD OF DELIVERY AGE OF MOTHER, 1992

SINGLETON BIRTHS

METHOD OF DELIVERY	AGE OF MOTHER									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	UNDER 15	15-19	20-24	25-29	30-34	35-39	40-44	45 AND OVER	TOTAL
SPONTANEOUS	152 0.42 68.47	5 0.01 71.43	2051 5.62 75.49	5989 16.41 76.60	10950 30.00 72.26	10942 29.98 72.11	5246 14.37 72.72	1105 3.03 69.85	60 0.16 73.17	36500 73.04
BREECH/FORCEPS	2 0.26 0.90	0 0.00 0.00	47 6.23 1.73	117 15.50 1.50	239 31.66 1.58	224 29.67 1.48	105 13.91 1.46	20 2.65 1.26	1 0.13 1.22	755 1.51
FORCEPS	14 0.34 6.31	0 0.00 0.00	229 5.59 8.43	644 15.72 8.24	1456 35.54 9.61	1257 30.68 8.28	424 10.35 5.88	73 1.78 4.61	0 0.00 0.00	4097 8.20
VACUUM EXTRACTION	7 0.30 3.15	0 0.00 0.00	105 4.45 3.86	346 14.67 4.43	766 32.49 5.05	782 33.16 5.15	282 11.96 3.91	66 2.80 4.17	4 0.17 4.88	2358 4.72
CAESAREAN	26 0.45 11.71	2 0.03 28.57	256 4.40 9.42	636 10.92 8.13	1610 27.64 10.62	1868 32.07 12.31	1105 18.97 15.32	304 5.22 19.22	17 0.29 20.73	5824 11.65
OTHER, UNSPECIFIED AND NOT STATED	21 4.81 9.46	0 0.00 0.00	29 6.64 1.07	87 19.91 1.11	133 30.43 0.88	101 23.11 0.67	52 11.90 0.72	14 3.20 0.88	0 0.00 0.00	437 0.87
TOTAL	222 0.44	7 0.01	2717 5.44	7819 15.65	15154 30.33	15174 30.37	7214 14.44	1582 3.17	82 0.16	49971 100.00

TABLE 7

BIRTHWEIGHT BY GESTATION PERIOD AT DELIVERY, 1992

SINGLETON BIRTHS

BIRTHWEIGHT (GRAMMES)	GESTATION PERIOD (WEEKS)							
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	LESS THAN 22	22-27	28-31	32-36	37-41	42 AND OVER	TOTAL
500-749	0 0.00 0.00	3 4.48 100.00	50 74.63 39.68	11 16.42 3.99	3 4.48 0.18	0 0.00 0.00	0 0.00 0.00	67 0.13
750-999	0 0.00 0.00	0 0.00 0.00	45 56.25 35.71	29 36.25 10.51	6 7.50 0.36	0 0.00 0.00	0 0.00 0.00	80 0.16
1000-1249	0 0.00 0.00	0 0.00 0.00	19 22.35 15.08	47 55.29 17.03	14 16.47 0.84	4 4.71 0.01	1 1.18 0.02	85 0.17
1250-1499	0 0.00 0.00	0 0.00 0.00	9 9.68 7.14	50 53.76 18.12	29 31.18 1.75	5 5.38 0.01	0 0.00 0.00	93 0.19
1500-1999	0 0.00 0.00	0 0.00 0.00	2 0.63 1.59	71 22.40 25.72	183 57.73 11.02	59 18.61 0.13	2 0.63 0.05	317 0.63
2000-2499	0 0.00 0.00	0 0.00 0.00	1 0.09 0.79	13 1.17 4.71	434 38.92 26.14	641 57.49 1.47	26 2.33 0.62	1115 2.23
2500-2999	1 0.02 33.33	0 0.00 0.00	0 0.00 0.00	12 0.23 4.35	554 10.52 33.37	4484 85.12 10.25	217 4.12 5.21	5268 10.54
3000-3499	1 0.01 33.33	0 0.00 0.00	0 0.00 0.00	22 0.14 7.97	330 2.04 19.88	14783 91.57 33.80	1008 6.24 24.20	16144 32.31
3500-3999	1 0.01 33.33	0 0.00 0.00	0 0.00 0.00	11 0.06 3.99	73 0.41 4.40	15877 90.24 36.30	1632 9.28 39.18	17594 35.21
4000-4499	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	4 0.05 1.45	14 0.19 0.84	6438 87.11 14.72	935 12.65 22.45	7391 14.79
4500 AND OVER	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	6 0.36 0.36	1370 83.18 3.13	271 16.45 6.51	1647 3.30
NOT STATED	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	6 3.53 2.17	14 8.24 0.84	77 45.29 0.18	73 42.94 1.75	170 0.34
TOTAL	3 0.01	3 0.01	126 0.25	276 0.55	1660 3.32	43738 87.53	4165 8.33	49971 100.00

TABLE 8

METHOD OF DELIVERY BY MOTHER'S LENGTH OF STAY
IN HOSPITAL AFTER DELIVERY, 1992

SINGLETON BIRTHS

METHOD OF DELIVERY	POSTNATAL LENGTH OF STAY							
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0-2 DAYS	3-5 DAYS	6-8 DAYS	9-11 DAYS	12-14 DAYS	2 WEEKS OR MORE	TOTAL
SPONTANEOUS	262 0.72 49.06	3848 10.58 88.99	30516 83.90 81.35	1533 4.21 25.83	140 0.38 11.28	32 0.09 26.45	43 0.12 41.35	36374 73.08
BREECH/ FORCEPS	10 1.33 1.87	90 11.95 2.08	584 77.56 1.56	56 7.44 0.94	8 1.06 0.64	5 0.66 4.13	0 0.00 0.00	753 1.51
FORCEPS	56 1.37 10.49	208 5.08 4.81	3440 83.96 9.17	339 8.27 5.71	35 0.85 2.82	8 0.20 6.61	11 0.27 10.58	4097 8.23
VACUUM EXTRACTION	16 0.68 3.00	112 4.75 2.59	1914 81.17 5.10	280 11.87 4.72	26 1.10 2.10	6 0.25 4.96	4 0.17 3.85	2358 4.74
CAESAREAN	171 2.94 32.02	37 0.64 0.86	798 13.70 2.13	3679 63.17 61.98	1023 17.57 82.43	70 1.20 57.85	46 0.79 44.23	5824 11.70
OTHER, UNSPECIFIED AND NOT STATED	19 5.22 3.56	29 7.97 0.67	258 70.88 0.69	49 13.46 0.83	9 2.47 0.73	0 0.00 0.00	0 0.00 0.00	364 0.73
TOTAL	534 1.07	4324 8.69	37510 75.37	5936 11.93	1241 2.49	121 0.24	104 0.21	49770 100.00

Note: Domiciliary births of which there were 201 are excluded from this table.

TABLE 9

MATERNAL PARITY BY MOTHER'S LENGTH OF STAY
IN HOSPITAL AFTER DELIVERY, 1992

SINGLETON BIRTHS

MATERNAL PARITY	POSTNATAL LENGTH OF STAY							
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0-2 DAYS	3-5 DAYS	6-8 DAYS	9-11 DAYS	12-14 DAYS	2 WEEKS OR MORE	TOTAL
0	244 1.38 45.69	679 3.85 15.70	12954 73.49 34.53	3039 17.24 51.20	602 3.42 48.51	57 0.32 47.11	52 0.30 50.00	17627 35.42
1	116 0.83 21.72	1459 10.40 33.74	10854 77.38 28.94	1262 9.00 21.26	285 2.03 22.97	27 0.19 22.31	24 0.17 23.08	14027 28.18
2	83 0.93 15.54	971 10.88 22.46	6887 77.19 18.36	783 8.78 13.19	165 1.85 13.30	22 0.25 18.18	11 0.12 10.58	8922 17.93
3	43 0.93 8.05	578 12.49 13.37	3494 75.53 9.31	412 8.91 6.94	87 1.88 7.01	5 0.11 4.13	7 0.15 6.73	4626 9.29
4	21 0.96 3.93	284 12.97 6.57	1640 74.89 4.37	201 9.18 3.39	37 1.69 2.98	3 0.14 2.48	4 0.18 3.85	2190 4.40
5	13 1.21 2.43	153 14.25 3.54	783 72.91 2.09	95 8.85 1.60	25 2.33 2.01	3 0.28 2.48	2 0.19 1.92	1074 2.16
6	4 0.75 0.75	81 15.23 1.87	369 69.36 0.98	60 11.28 1.01	15 2.82 1.21	2 0.38 1.65	1 0.19 0.96	532 1.07
MORE THAN 6	8 1.19 1.50	108 16.00 2.50	464 68.74 1.24	71 10.52 1.20	19 2.81 1.53	2 0.30 1.65	3 0.44 2.88	675 1.36
NOT STATED	2 2.06 0.37	11 11.34 0.25	65 67.01 0.17	13 13.40 0.22	6 6.19 0.48	0 0.00 0.00	0 0.00 0.00	97 0.19
TOTAL	534 1.07	4324 8.69	37510 75.37	5936 11.93	1241 2.49	121 0.24	104 0.21	49770 100.00

Note: Domiciliary births of which there were 201 are excluded from this table.

TABLE 10

MARITAL STATUS BY GESTATION PERIOD AT TIME OF FIRST VISIT
TO HOSPITAL OR DOCTOR DURING PREGNANCY, 1992

SINGLETON BIRTHS

MARITAL STATUS	TIME OF FIRST VISIT (WEEKS)				
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0-12	13-19	20 AND OVER	TOTAL
MARRIED	2876 7.05 89.12	21720 53.24 86.55	9924 24.32 78.91	6279 15.39 69.21	40799 81.65
SINGLE	310 3.75 9.61	3006 36.38 11.98	2401 29.06 19.09	2546 30.81 28.06	8263 16.54
SEPARATED	32 4.07 0.99	304 38.63 1.21	227 28.84 1.80	224 28.46 2.47	787 1.57
DIVORCED	5 9.26 0.15	23 42.59 0.09	14 25.93 0.11	12 22.22 0.13	54 0.11
NOT STATED	4 5.88 0.12	42 61.76 0.17	11 16.18 0.09	11 16.18 0.12	68 0.14
TOTAL	3227 6.46	25095 50.22	12577 25.17	9072 18.15	49971 100.00

TABLE 11

INTERVAL IN YEARS SINCE LAST BIRTH BY GESTATION PERIOD AT TIME OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY, 1992

SINGLETON BIRTHS

TIME SINCE LAST BIRTH	TIME OF FIRST VISIT (WEEKS)				
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0-12	13-19	20 AND OVER	TOTAL
NO PREVIOUS BIRTH	1030 5.83 31.92	9597 54.28 38.24	4138 23.40 32.90	2915 16.49 32.13	17680 35.38
1 YEAR OR LESS	35 6.54 1.08	175 32.71 0.70	131 24.49 1.04	194 36.26 2.14	535 1.07
>1 YEAR TO 2 YEARS	471 6.27 14.60	3140 41.78 12.51	2052 27.31 16.32	1852 24.64 20.41	7515 15.04
>2 YEARS TO 3 YEARS	535 6.73 16.58	3936 49.50 15.68	2051 25.80 16.31	1429 17.97 15.75	7951 15.91
>3 YEARS TO 4 YEARS	327 5.89 10.13	2859 51.50 11.39	1462 26.34 11.62	903 16.27 9.95	5551 11.11
>4 YEARS TO 5 YEARS	220 6.38 6.82	1775 51.46 7.07	900 26.09 7.16	554 16.06 6.11	3449 6.90
>5 YEARS TO 6 YEARS	133 6.02 4.12	1149 52.01 4.58	593 26.84 4.71	334 15.12 3.68	2209 4.42
MORE THAN 6 YEARS	274 6.14 8.49	2277 51.07 9.07	1143 25.63 9.09	765 17.16 8.43	4459 8.92
NOT STATED	202 32.48 6.26	187 30.06 0.75	107 17.20 0.85	126 20.26 1.39	622 1.24
TOTAL	3227 6.46	25095 50.22	12577 25.17	9072 18.15	49971 100.00

TABLE 12

FATHER'S OCCUPATION BY INTERVAL IN YEARS SINCE LAST BIRTH, 1992

SINGLETON BIRTHS

FATHER'S OCCUPATION	TIME SINCE LAST BIRTH									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	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	TOTAL
FARMERS AND FARM MANAGERS	69 1.65 11.09	1085 26.01 6.14	61 1.46 11.40	881 21.12 11.72	820 19.65 10.31	496 11.89 8.94	266 6.38 7.71	156 3.74 7.06	338 8.10 7.58	4172 8.35
OTHER AGRICULTURAL OCCUPATIONS AND FISHERMEN	8 0.88 1.29	211 23.34 1.19	15 1.66 2.80	162 17.92 2.16	193 21.35 2.43	111 12.28 2.00	80 8.85 2.32	42 4.65 1.90	82 9.07 1.84	904 1.81
HIGHER PROFESSIONAL	21 0.95 3.38	741 33.35 4.19	7 0.32 1.31	381 17.15 5.07	418 18.81 5.26	267 12.02 4.81	154 6.93 4.47	97 4.37 4.39	136 6.12 3.05	2222 4.45
LOWER PROFESSIONAL	27 1.47 4.34	619 33.64 3.50	17 0.92 3.18	284 15.43 3.78	346 18.80 4.35	219 11.90 3.95	127 6.90 3.68	68 3.70 3.08	133 7.23 2.98	1840 3.68
EMPLOYERS AND MANAGERS	41 0.82 6.59	1584 31.62 8.96	35 0.70 6.54	766 15.29 10.19	918 18.33 11.55	611 12.20 11.01	399 7.97 11.57	231 4.61 10.46	424 8.46 9.51	5009 10.02
SALARIED EMPLOYEES	15 1.17 2.41	455 35.49 2.57	7 0.55 1.31	178 13.88 2.37	221 17.24 2.78	163 12.71 2.94	91 7.10 2.64	56 4.37 2.54	96 7.49 2.15	1282 2.57
INTERMEDIATE NON-MANUAL WORKERS	39 0.93 6.27	1307 31.18 7.39	45 1.07 8.41	615 14.67 8.18	779 18.58 9.80	539 12.86 9.71	317 7.56 9.19	206 4.91 9.33	345 8.23 7.74	4192 8.39

TABLE 12 — continued

FATHER'S OCCUPATION BY INTERVAL IN YEARS SINCE LAST BIRTH, 1992

SINGLETON BIRTHS

FATHER'S OCCUPATION	TIME SINCE LAST BIRTH									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	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	TOTAL
OTHER NON-MANUAL WORKERS	41 0.96 6.59	1206 28.11 6.82	48 1.12 8.97	632 14.73 8.41	696 16.22 8.75	544 12.68 9.80	360 8.39 10.44	263 6.13 11.91	500 11.66 11.21	4290 8.58
SKILLED MANUAL WORKERS	148 1.37 23.79	3109 28.87 17.58	93 0.86 17.38	1614 14.99 21.48	1887 17.52 23.73	1357 12.60 24.45	868 8.06 25.17	571 5.30 25.85	1121 10.41 25.14	10768 21.55
SEMI-SKILLED MANUAL WORKERS	33 1.53 5.31	582 26.91 3.29	20 0.92 3.74	340 15.72 4.52	359 16.60 4.52	300 13.87 5.40	175 8.09 5.07	113 5.22 5.12	241 11.14 5.40	2163 4.33
UNSKILLED MANUAL WORKERS	30 1.50 4.82	373 18.60 2.11	42 2.09 7.85	377 18.80 5.02	365 18.20 4.59	289 14.41 5.21	159 7.93 4.61	111 5.54 5.02	259 12.92 5.81	2005 4.01
UNEMPLOYED	62 3.93 9.97	285 18.06 1.61	40 2.53 7.48	369 23.38 4.91	296 18.76 3.72	170 10.77 3.06	123 7.79 3.57	72 4.56 3.26	161 10.20 3.61	1578 3.16
NOT CLASSIFIABLE	4 1.74 0.64	78 33.91 0.44	3 1.30 0.56	42 18.26 0.56	35 15.22 0.44	23 10.00 0.41	11 4.78 0.32	8 3.48 0.36	26 11.30 0.58	230 0.46
NOT APPLICABLE	84 0.92 13.50	5975 65.33 33.80	100 1.09 18.69	856 9.36 11.39	592 6.47 7.45	442 4.83 7.96	304 3.32 8.81	210 2.30 9.51	583 6.37 13.07	9146 18.30
NOT STATED	0 0.00 0.00	70 41.18 0.40	2 1.18 0.37	18 10.59 0.24	26 15.29 0.33	20 11.76 0.36	15 8.82 0.43	5 2.94 0.23	14 8.24 0.31	170 0.34
TOTAL	622 1.24	17680 35.38	535 1.07	7515 15.04	7951 15.91	5551 11.11	3449 6.90	2209 4.42	4459 8.92	49971 100.00

TABLE 13

FATHER'S OCCUPATION BY INFANT'S TYPE OF FEEDING, 1992

SINGLETON BIRTHS

FATHER'S OCCUPATION	TYPE OF FEEDING			
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	ARTIFICIAL	BREAST	TOTAL
FARMERS AND FARM MANAGERS	67 1.61 9.78	2526 60.84 7.81	1559 37.55 9.36	4152 8.36
OTHER AGRICULTURAL OCCUPATIONS AND FISHERMEN	12 1.33 1.75	664 73.78 2.05	224 24.89 1.34	900 1.81
HIGHER PROFESSIONAL	15 0.68 2.19	691 31.17 2.14	1511 68.16 9.07	2217 4.46
LOWER PROFESSIONAL	30 1.64 4.38	661 36.04 2.04	1143 62.32 6.86	1834 3.69
EMPLOYERS AND MANAGERS	62 1.24 9.05	2393 47.91 7.40	2540 50.85 15.25	4995 10.05
SALARIED EMPLOYEES	14 1.10 2.04	685 54.06 2.12	568 44.83 3.41	1267 2.55
INTERMEDIATE NON-MANUAL WORKERS	57 1.37 8.32	2492 59.82 7.70	1617 38.81 9.71	4166 8.38
OTHER NON-MANUAL WORKERS	46 1.08 6.72	3014 70.78 9.32	1198 28.14 7.19	4258 8.57
SKILLED MANUAL WORKERS	142 1.33 20.73	6953 64.88 21.50	3621 33.79 21.74	10716 21.57
SEMI-SKILLED MANUAL WORKERS	30 1.40 4.38	1724 80.26 5.33	394 18.34 2.37	2148 4.32
UNSKILLED MANUAL WORKERS	30 1.51 4.38	1693 84.95 5.23	270 13.55 1.62	1993 4.01
UNEMPLOYED	46 2.94 6.72	1311 83.77 4.05	208 13.29 1.25	1565 3.15
NOT CLASSIFIABLE	1 0.43 0.15	142 61.74 0.44	87 37.83 0.52	230 0.46
NOT APPLICABLE	124 1.37 18.10	7285 80.23 22.52	1671 18.40 10.03	9080 18.27
NOT STATED	9 5.45 1.31	110 66.67 0.34	46 27.88 0.28	165 0.33
TOTAL	685 1.38	32344 65.10	16657 33.52	49686 100.00

TABLE 14

INFANT'S TYPE OF FEEDING BY MATERNAL PARITY, 1992

SINGLETON BIRTHS

TYPE OF FEEDING	MATERNAL PARITY									
FREQUENCY ROW PERCENT COL PERCENT	NOT STATED	0	1	2	3	4	5	6	MORE THAN 6	TOTAL
ARTIFICIAL	39 0.12 32.77	10739 33.20 61.14	9128 28.22 65.11	5911 18.28 66.34	3134 9.69 67.89	1597 4.94 73.26	822 2.54 76.61	418 1.29 78.42	556 1.72 82.74	32344 65.10
BREAST	23 0.14 19.33	6607 39.67 37.62	4722 28.35 33.68	2899 17.40 32.54	1414 8.49 30.63	557 3.34 25.55	227 1.36 21.16	106 0.64 19.89	102 0.61 15.18	16657 33.52
NOT STATED	57 8.32 47.90	218 31.82 1.24	169 24.67 1.21	100 14.60 1.12	68 9.93 1.47	26 3.80 1.19	24 3.50 2.24	9 1.31 1.69	14 2.04 2.08	685 1.38
TOTAL	119 0.24	17564 35.35	14019 28.22	8910 17.93	4616 9.29	2180 4.39	1073 2.16	533 1.07	672 1.35	49686 100.00

APPENDIX E

WIGGLESWORTH CLASSIFICATION, 1992

1) BASIS OF SYSTEM

In this section perinatal deaths are classified according to the system devised by Dr. Jonathan Wigglesworth. The system is 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.[3] 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.[4]

2) METHOD OF CLASSIFICATION

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

NORMALLY FORMED MACERATED STILLBIRTH

CONGENITAL MALFORMATIONS (STILLBIRTH OR EARLY NEONATAL DEATH)

CONDITIONS ASSOCIATED WITH IMMATURITY (EARLY NEONATAL DEATH)

ASPHYXIAL CONDITIONS DEVELOPING IN LABOUR (STILLBIRTH OR EARLY NEONATAL DEATH)

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 of the guidelines set out by Dr. Wigglesworth.[5]

Wigglesworth Classes	Assignment Criteria
MACERATED (SB)	ALL ANTEPARTUM STILLBIRTHS 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 (SB AND ENND)	ALL MAJOR CONGENITAL ANOMALIES (STILLBIRTHS AND EARLY NEONATAL DEATHS).[6]

[3] Wigglesworth, J.S., "Monitoring Perinatal Mortality," *The Lancet*, 1980, 2, pp.684-686.

[4] The analysis by Wigglesworth's categories, unlike the main report, includes 14 live births which weighed under 500 grammes and all of which resulted in early neonatal deaths.

[5] 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.

[6] This category includes the following I.C.D. codes: 740-742, 745-748, 750.3, 750.6, 751.1-751.8, 753, 756.0, 756.6, 756.7, 758-759.

Wigglesworth Classes	Assignment Criteria
IMMATURITY (ENND)	ALL FIRST WEEK DEATHS DUE TO STRUCTURAL LUNG IMMATURITY AND HYALINE MEMBRANE DISEASE.[7] FIRST WEEK DEATHS OF LESS THAN 37 WEEKS GESTATION PERIOD WHERE CAUSE IS NOT STATED OR DOES NOT FALL INTO ANY OTHER CATEGORY.
ASPHYXIA	ALL FIRST WEEK DEATHS DUE TO BIRTH TRAUMA AND BIRTH ASPHYXIA.[8] 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.
SPECIFIC CONDITIONS (SB AND ENND)	INFECTION, ISOIMMUNISATION, OR OTHER HAEMORRHAGE IN THE NEWBORN.[9]

3) RESULTS

Tabulations based on the Wigglesworth classification are given below. Table 1 indicates the percentage of perinatal deaths attributable to each cause for 1992. Congenital malformations accounted for over a quarter of all deaths which is a high figure in comparison with other European countries. Table 2 provides a classification of cause of death by birthweight and indicates cause and weight specific perinatal mortality rates for 1992. It is this table which shows the practical clinical implications of the Wigglesworth coding. Figure 1 is derived from the data contained in Table 2 and shows how the percentage contribution to the perinatal mortality rate of each cause changes with birthweight group. Table 3 provides the same cross-tabulations as Table 2 but uses the definition of stillbirth based on 28 weeks gestation period. This is provided to facilitate possible local or international comparisons.

TABLE 1

WIGGLESWORTH CLASSIFICATION FOR ALL PERINATAL DEATHS, 1992

WIGGLESWORTH CLASSIFICATION	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MACERATED STILLBIRTHS	178	35.1	178	35.1
CONGENITAL MALFORMATIONS	140	27.6	318	62.7
IMMATURITY	76	15.0	394	77.7
ASPHYXIAL CONDITIONS	89	17.6	483	95.3
SPECIFIC CONDITIONS	24	4.7	507	100.0

[7] This category includes the following I.C.D. codes: 765, 769.0, 770.4, 772.1, 777.5.
[8] This category includes the following I.C.D. codes: 762.0, 762.1, 762.4, 762.5, 767-768.
[9] The I.C.D. codes for specific conditions are as follows: 760.1-760.5, 762.3, 770.0, 771, 773, 775, 777.0, 778.0.

TABLE 2

WIGGLESWORTH CLASSIFICATION
NUMBER OF PERINATAL DEATHS AND MORTALITY RATES BY CAUSE AND BIRTHWEIGHT, 1992

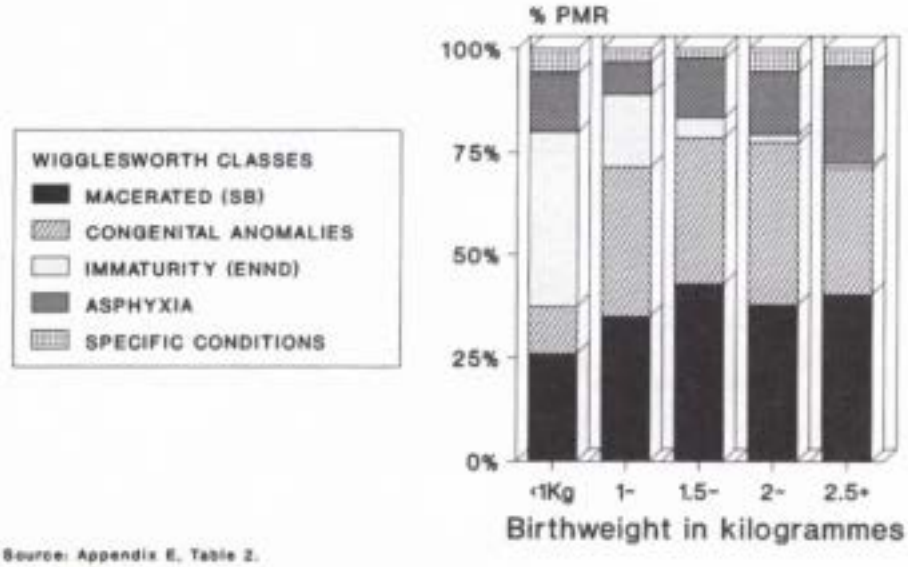
BIRTHWEIGHT (GRAMMES)	MACERATED STILLBIRTHS		CONGENITAL ANOMALIES		IMMATURITY		ASPHYXIA		SPECIFIC CONDITIONS		TOTAL	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
UNDER 1000	36	189.47	16	84.21	59	310.53	20	105.26	8	42.11	139	731.58
1000-1499	22	100.46	23	105.02	11	50.23	5	22.83	2	9.13	63	287.67
1500-1999	18	39.74	15	33.11	2	4.42	6	13.25	1	2.21	42	92.72
2000-2499	20	14.21	21	14.93	1	0.71	8	5.69	3	2.13	53	37.67
2500 AND OVER	82	1.68	63	1.29	2	0.04	48	0.98	9	0.18	204	4.19
NOT STATED	0	0.00	2	11.43	1	5.71	2	11.43	1	5.71	6	34.29
TOTAL	178	3.48	140	2.74	76	1.48	89	1.74	24	0.47	507	9.91

TABLE 3

WIGGLESWORTH CLASSIFICATION USING THE 28 WEEKS DEFINITION OF A STILLBIRTH
NUMBER OF PERINATAL DEATHS AND MORTALITY RATES BY CAUSE AND BIRTHWEIGHT, 1992

BIRTHWEIGHT (GRAMMES)	MACERATED STILLBIRTHS		CONGENITAL ANOMALIES		IMMATURITY		ASPHYXIA		SPECIFIC CONDITIONS		TOTAL	
	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
UNDER 1000	13	85.53	14	92.11	59	388.16	8	52.63	7	46.05	101	664.47
1000-1499	19	87.96	23	106.48	11	50.93	5	23.15	2	9.26	60	277.78
1500-1999	18	39.74	15	33.11	2	4.42	6	13.25	1	2.21	42	92.72
2000-2499	20	14.21	21	14.93	1	0.71	8	5.69	3	2.13	53	37.67
2500 AND OVER	82	1.68	63	1.29	2	0.04	48	0.98	9	0.18	204	4.19
NOT STATED	0	0.00	2	11.43	1	5.71	2	11.43	1	5.71	6	34.29
TOTAL	152	2.97	138	2.70	76	1.49	77	1.51	23	0.45	466	9.11

FIG E1 WIGGLESWORTH CLASSIFICATION: PERCENT DISTRIBUTION OF PERINATAL DEATHS BY CAUSE OF DEATH AND WEIGHT, 1992



Source: Appendix E, Table 2.

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