

PERINATAL STATISTICS

1993



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PERINATAL STATISTICS 1993

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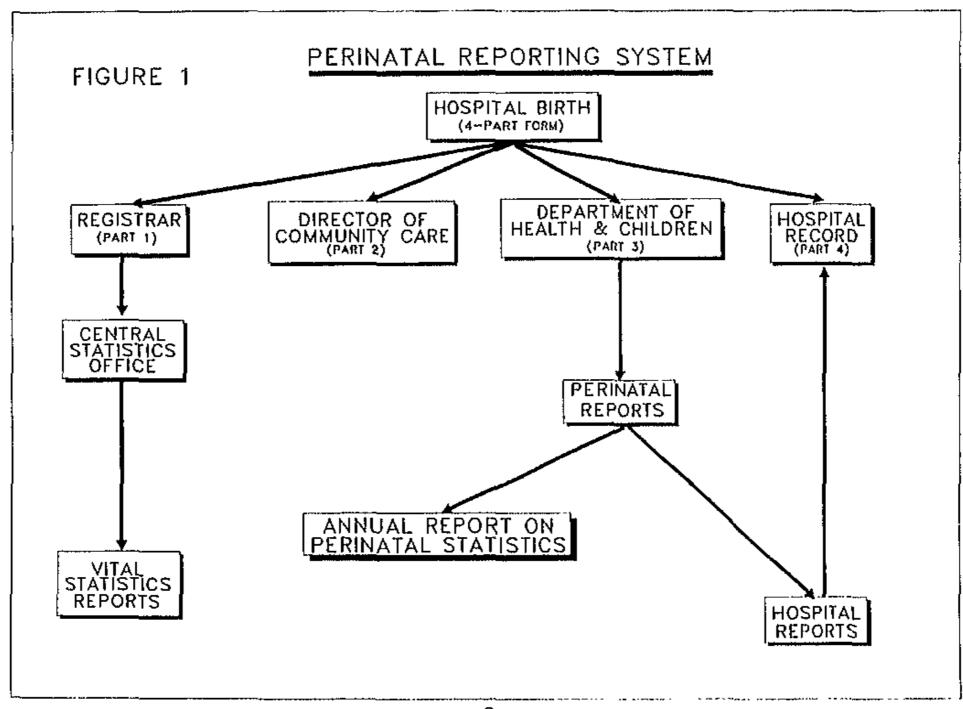
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INTRODUCTION

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 1993 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 national coverage has been complete since 1985.

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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 and Children. 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 and Children. 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 and Children. 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 PC based and reports and analyses are carried out using the Statistical Analysis System (SAS) software.

FORMAT AND CONTENTS

This report presents a basic set of national tabulations for perinatal events for 1993 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 1987. Section B contains tables relating to the following variables: maternal age, parity, marital status, socioeconomic 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 1993 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. 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:

Number of Stillbirths x 1,000

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:

Number of Early Neonatal Deaths x 1,000

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:

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

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

TWINNING RATE: This is given by:

Number of Twin Maternities x 1,000 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.

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 we

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.

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ling all ed rate th was genital TIME SINCE LAST BIRTH: This variable gives the time, grouped into yearly intervals, since the mother's last live or still birth.

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.

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.

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Ilbirths

ological death World er with gory is 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 1993 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 and Children 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 and Children 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 10.4 in 1987 before rising slightly to 11.3 in 1988. Figures for 1989 to 1992 show a decline

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natal, / rate 1981 10.4 ecline to 10.4, 10.2, 9.5 and 9.3 respectively per 1,000 live and still births and the figure for 1993 indicates a further decline to 9.1 (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.

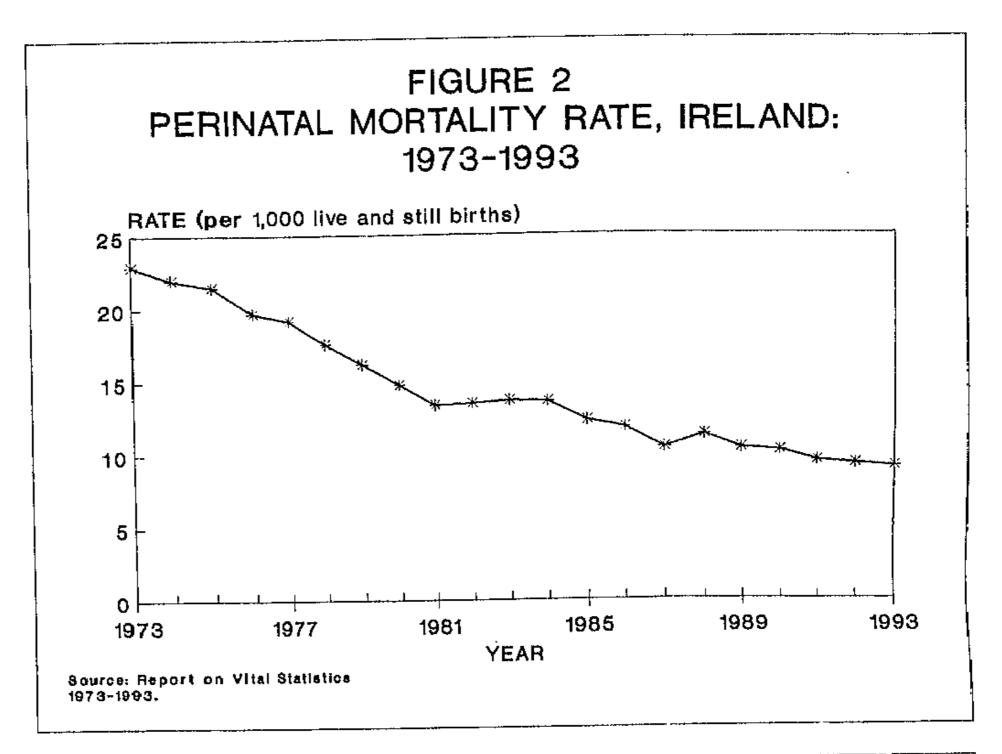
BIRTH RATE

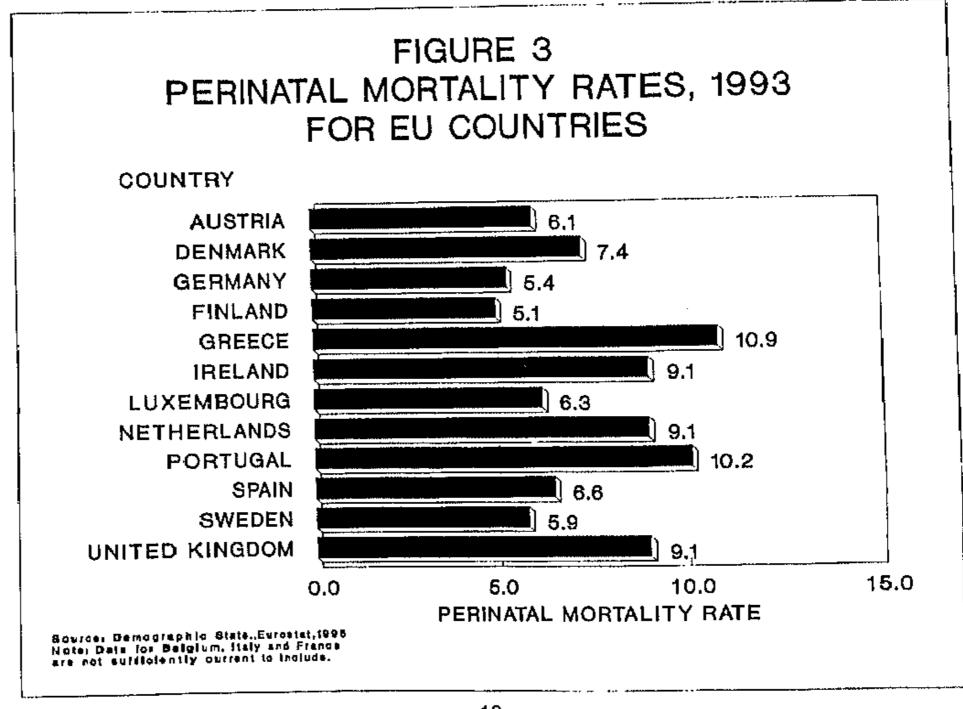
The birth rate for 1989 at 14.8 per 1,000 population was at the time the lowest ever recorded having progressively fallen from a figure of 21.8 in 1980. However in 1990 the rate rose, for the first time in ten years, to 15.1. Provisional data for subsequent years indicate a further decline to 13.4 in 1994 but rising again up to 13.9 in 1996 (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 somewhat higher than any other EU country (Figure 6).

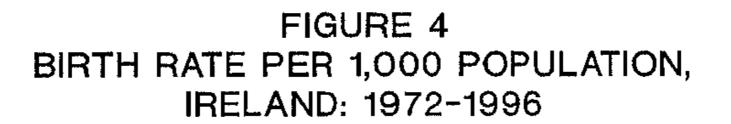
FERTILITY

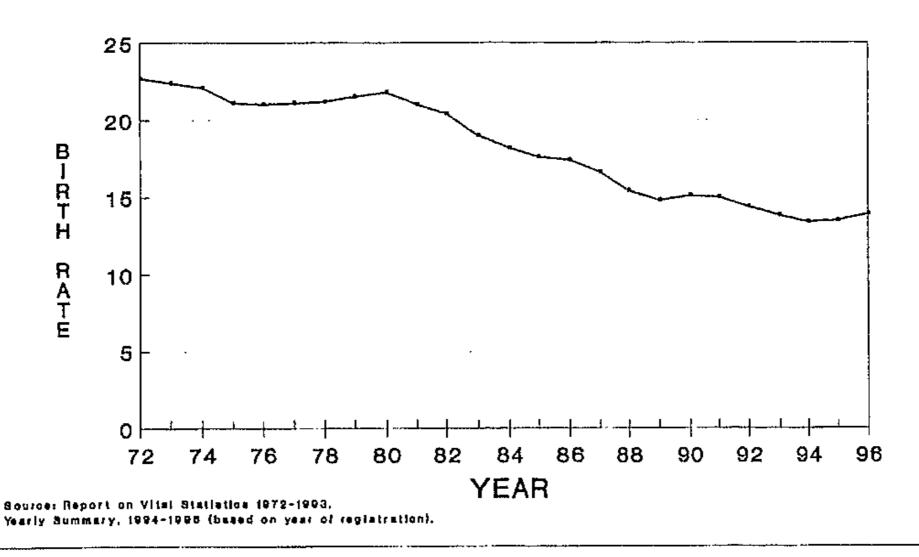
Figure 7 shows the trend in the Total Period Fertility Rate (TPFR) in Ireland over the past 15 years. The TPFR for a given year indicates the number of children a woman could expect to have if the age-specific fertility rates for that year applied throughout her fertile years. The TPFR has declined from an average of nearly four children in 1972 to 1.9 in 1993. 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 has one of the highest rates in the EU (Figure 8).

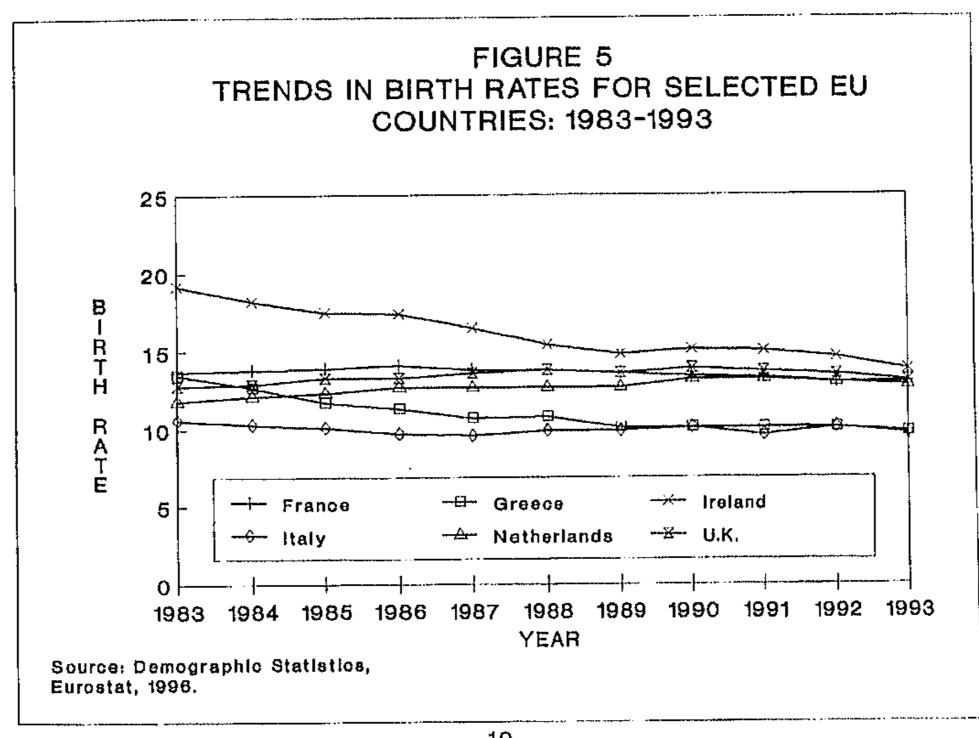
^{*} National figures presented in this section are based on official registration data as compiled by the Central Statistics Office. These figures may differ somewhat from numbers and rates appearing in the Tables of this Report for reasons given in the previous section.

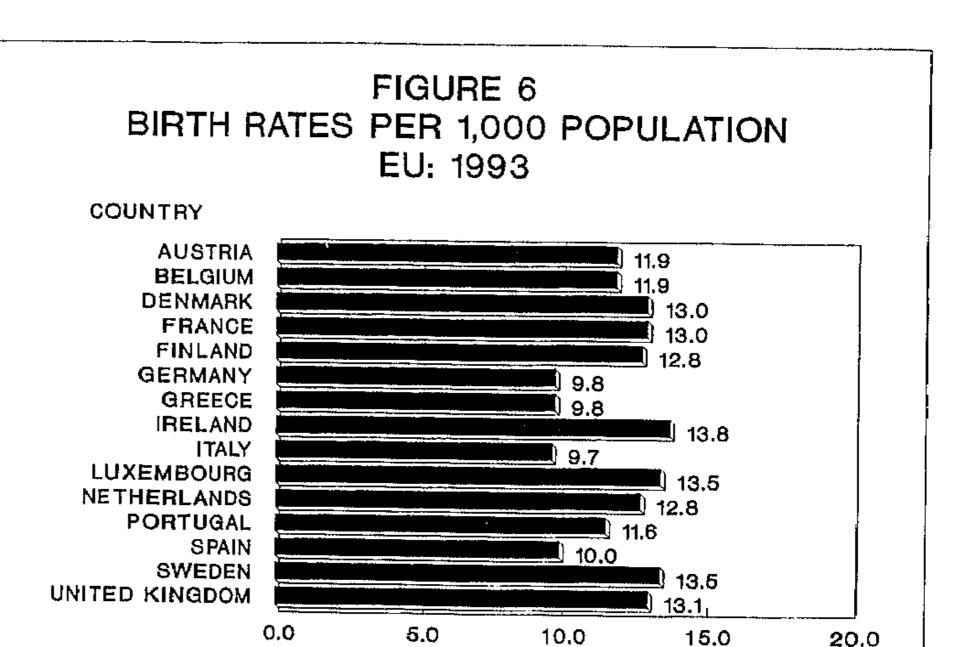






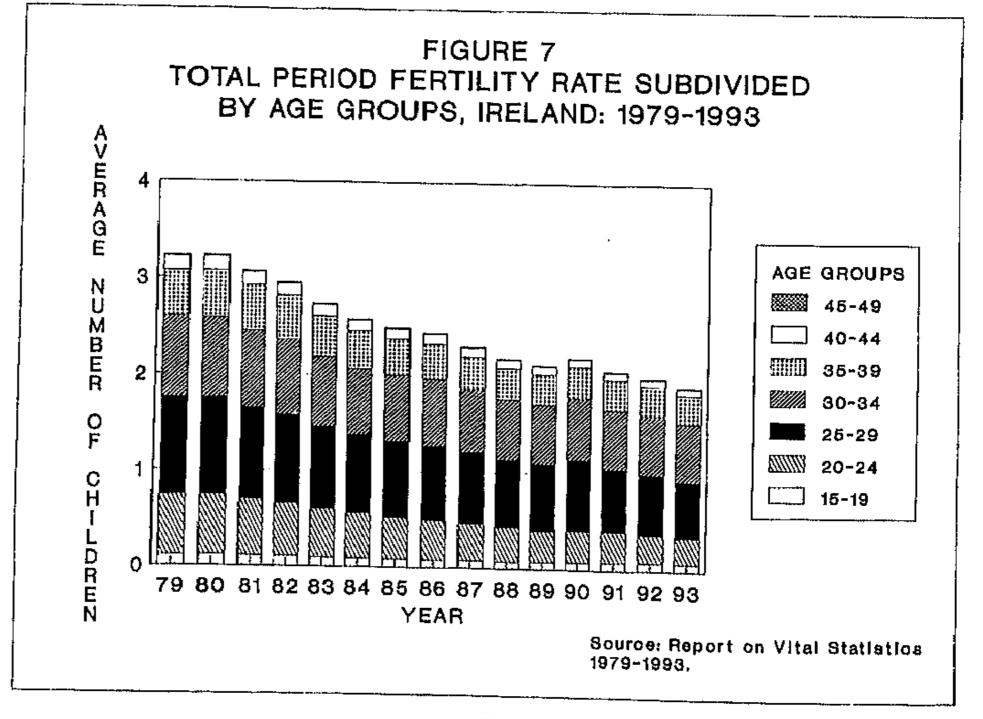


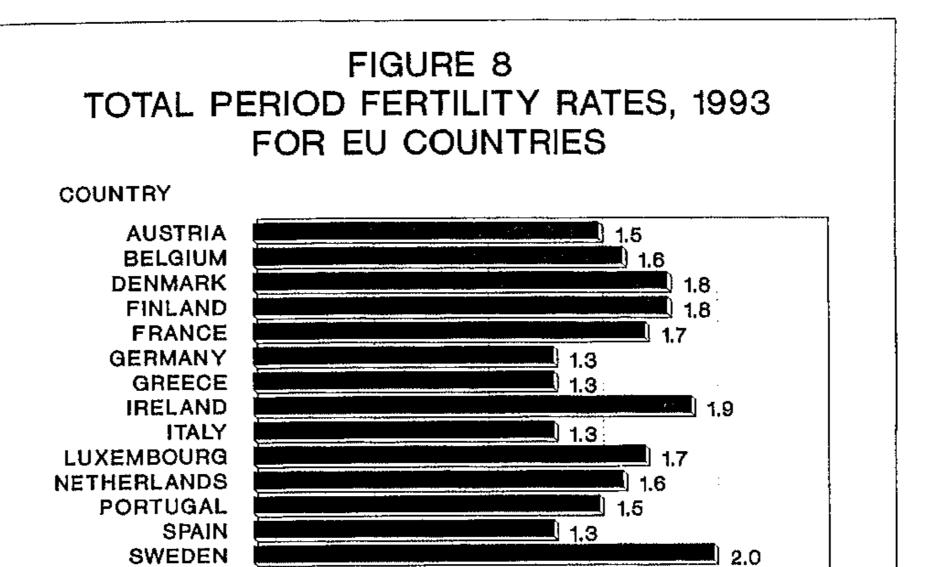




BIRTH RATE PER 1,000 POPULATION

Source: Demographic Statistics, Eurostat, 1996.





1.0

TOTAL PERIOD FERTILITY RATE

1.5

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2.0

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Source:Demographic Statistics, Eurostat 1996. Estimated figure for Belgium.

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UNITED KINGDOM

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1993 SECTION A: SELECTED TRENDS

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TABLE 1

TRENDS IN VITAL EVENTS
SINGLETON AND MULTIPLE BIRTHS, NUMBERS AND RATES FOR
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND PERINATAL DEATHS, 1987 TO 1993

		ביהיהייטבאי יבההם, החיחום בונה, כחיהום מאום	֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֖֝֟֝֝֝֝	ב ב	ה ה	֝֝֟֝֝֝֝֝֝֝֝֝֝ ֡֡֞֞֞֞֞֞֞֞֞֞֞֩֞֞֩֞֞֩֞֞֞֩֞֞֩֞֞֞֩֞֞		; ; ;			;		' - · · · ·					
					:					¥	YEAR			Ì				
			1987	87	1988	æ	1989	6	1990	0	1991	Ξ	1992	<u>م</u>	1993	က္က	1987-1993	993
	VITAL EVENTS		NUMBER	PATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	PATE	NUMBER	RATE
	I WE DIDTER.	SING! ETON	57013	1	53202		50631	, 	51543	•	51242	•	49686	ı	48030	ŀ	361347	1
	יסבורום דעום.	MAIN TIDI FI	1217	I	1230	ι	1251	·	1250	ı	1200	ı	1182	ı	1001	l	8340	
		TOTAL	58230	I	54441	1	51882	•	52793	•	52442	ı	50868	•	49031	1	369687	
			3	1	Š	ō	ç	ď	305	ď	284	ις	282	7.	272	, r	2215	6.1
	STILLBIRTHS:	SINGLETON	404), ç	‡ 8	0 0 4 0	175	, ç.	3 +	2 (- 8	14.8	9 4	13.4	F	10.9	128	15.1
		MULIIFLE	र क्ष	7.3	374	8.8	338	6.5	316	6.0	302	5.7	30-	5.9	283	5.7	2343	6.3
24	EARLY NEONATAL DEATHS:	TAL DEATHS:	200	9	278	7	98	7 6	-	37		თ	173	3.5	9	2.7	1299	3.6
		MITIPLE	3 8	3 6	3 6	26.6	3 8	24.8	ผ	17.6	24	20.0	10	16.1	16	16.0	168	20.1
		TOTAL	282	3.9	251	4.6	217	4.2	213	4.0	219	4.2	192	3.8	147	3.0	1467	4.0
	PERINATAL DEATHS:	ATHS:	90	<u>4</u>	750	Ç	507	ç	496	ď	479	or.	458	0	403	(r)	3514	9.7
		MILTIPLE	3 8	3 8	3 8	49.6	48	37.9	8	26.2	42	34.5	35	29.5	27	26.7	296	35.0
		TOTAL	657	11.2	625	11.4	555	10.6	529	10.0	521	6.6	493	9.6	430	8.7	3810	10.2
	ADJ. PERINATAL DEATHS:	L DEATHS:											***************************************			·		
		SINGLETON	442	7.7	394	7.4	380	7.5	376	7.3	320	6.2	318	6.4	294	9.1	2524	7.0
		MULTIPLE	4	35.5	57	45.1	41	32.5	83	23.1	33	32.1	32	26.8*	8	17.9	260	30.8
		TOTAL	486	8.3	451	8.3	421	8.1	405	7.6	328	6.8	350	6.9*	312	6.3	2784	7.5
			- T		1 10 mm	2-40 156	2000	1	A the interest	4 44	though out of a distribution	1				•		

Note: Definitions of terms and algorithms for the calculation of mortality rates are given in the introduction to the report.

* Revised figure.

FIGURE A1: TOTAL BIRTHS RATES FOR STILLBIRTHS, EARLY NEONATAL & PERINATAL DEATHS 1987-1993

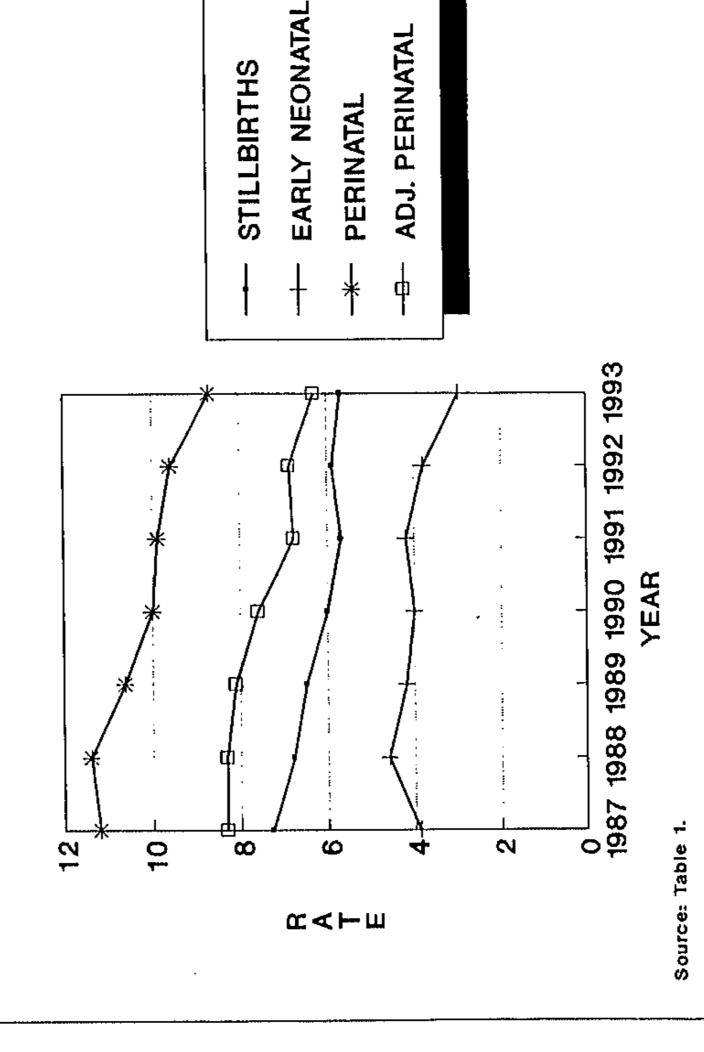


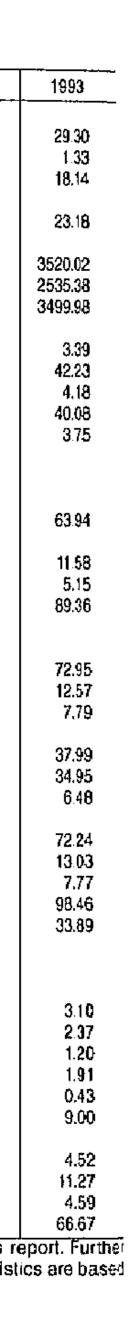
TABLE 2
TRENDS IN SELECTED STATISTICS, 1987 TO 1993

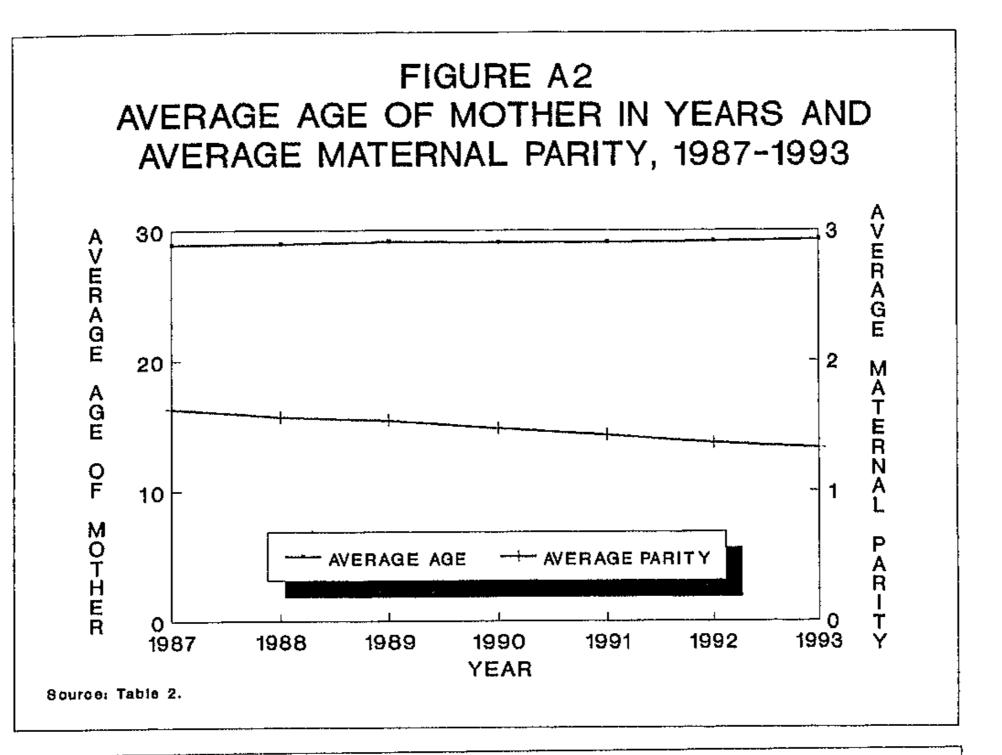
Inches	III OELEC		1101100	1007 10	1000		
SELECTED STATISTICS	1987	1988	1989	1990	1991	1992	1993
GENERAL CHARACTERISTICS			******		, , ,		
Average Age of Mother in Years	28.93	28.97	29.12	29.11	29.11	29.18	29.30
Average Maternal Parity	1.63	1.57	1.54	1.48	1.43	1.37	1.33
Single Mothers (%)	9.99	11.09	11.95	13.56	15.54	16.50	18.14
Average Number of Previous Stillbirths							13,7.
per 1000 Confinements	22,06	20.47	20.02	19.44	17.22	19.82	23.18
Average Weight in Grammes		11				10.0	20.10
- Singleton Births	3501.55	3504.01	3506.58	3509.88	3548.02	3525,01	3520.02
- Multiple Births	2530.11	2545.52	2539.24	2584.04	2653.17	2549.84	2535.38
- Total Births	3481.28	3482.29	3483.19	3488.10	3527.54	3502.37	3499.98
Low Birthweight < 2500 grammes (%)	01011110	0102.20	0100.15	5.55.10	""	0002.57	0433.00
- Singleton Births	3.28	3.48	3.30	3.35	3.43	3.24	3.39
- Multiple Births	43.76	41.58	40.90	38.70	38.38	41.38	42.23
- Total Births	4.12	4.34	4.20	4.18	4.23	4.13	4.18
Average Gestational Age at Delivery in Weeks	39.68	39.58	39.63	39.60	39.59		
Average Interval since Last Birth in Years		•	l		1	40.23	40.08
Average interval since cast billin in rears	3,49	3.56	3,60	3.68	3.68	3.69	3.75
PERINATAL CARE		,					
Hospital & GP Combined Antenatal							
Care (%)	61.24	61.86	61.52	60.80	58.97	61.97	63.94
Average Gestational Age at Time of	01.64	01.00	01.02	00.00	30.97	01.97	63.84
First Visit to Doctor in Weeks	11.91	11 01	11.07	44.80	14.00	44.00	44.65
		11.81	11.87	11.46	11.80	11.63	11.58
Mothers' Average Length of Stay in Days	5.78	5.73	5.64	5.47	5.24	5.12	5.15
Immunity to Rubella (%)	88.48	87.33	88.76	88.77	89.40	89.02	89.36
Method of Delivery (%):							
Singleton Births							
- Spontaneous	77.51	76.48	75.36	74.33	73.64	73.72	72.95
- Caesarean	8.78	9.49	9.84	10.39	11.30	11.78	12.57
- Forceps 1	9.20	9.37	10.00	9.78	9.58	8.30	7.79
Multiple Births							
- Spontaneous	47.01	46.59	42.78	43.06	39.36	40.78	37.99
- Caesarean	20.35	22.00	24.86	24,84	30.70	29.69	34.95
- Forceps ¹	7.97	8.52	8.88	7.18	8.07	6.40	6.48
Total Births						•	
- Spontaneous	77.30	76.27	75.09	74.07	72.85	72.96	72.24
- Caesarean	8.90	9.62	10.01	10.55	11.75	12.19	13.03
- Forceps 1	9.19	9.36	10.00	9,75	9.54	8.25	7.77
Booked Hospital Admissions (%)	98.59	99.02	99.15	98.70	98.94	98.99	98.46
Mothers Breastfeeding (%)	33.23	32.26	32.76	31.66	31.85	33,85	33.89
•			1	01.00	01.05	05,05	00.00
PERINATAL OUTCOMES		1]				
Wigglesworth Classes (Rate) 2	1						
- Macerated Stillbirths	3.87	3.48	3.79	3.46	2.96	3.48	3.10
 Congenital Anomalies 	2.76	3.05	2.51	2.22	2.88	2.74	2.37
 Immaturity 	1.55	1.75	1.74	1.73	1,44	1.48	1.20
- Asphyxia	2.51	2.75	2.11	2.32	2.39	1.74	1.91
- Specific Conditions	0.78	0.64	0.65	0.47	0.38	0.47	
· Total	11,47	11.67	10.80	10.20	I		0.43
Infants' Average Length of Stay in Days	''''	11.07	10.00	10,20	10.05	9.91	9.00
- Singleton Births	4.77	4.74	470	1			1 54
- Multiple Births	7.24		4.70	4.54	4.41	4.44	4.52
- Total Births	L	8.28	7.89	7.42	7.83	9.56	11.27
Postmortems for Early Neonatal Deaths (%)	4.81	4.80	4.76	4.60	4.47	4.54	4.59
Note: These selected statistics are set out of	65.88	61.40	73.33	66.09	66.12	73.78	66.67

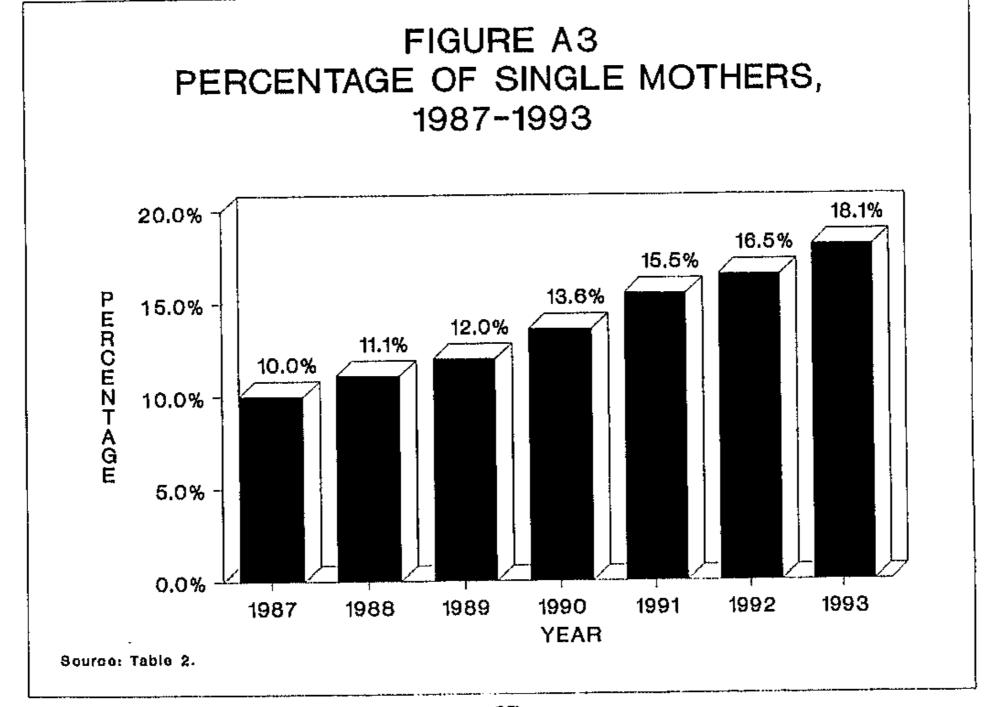
Note: These selected statistics are set out according to the order in which they appear in subsequent sections of this report. Further details for each statistic, including mortality rates, are given in these sections. Statistics relating to maternal characteristics are based on total confinements. Missing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

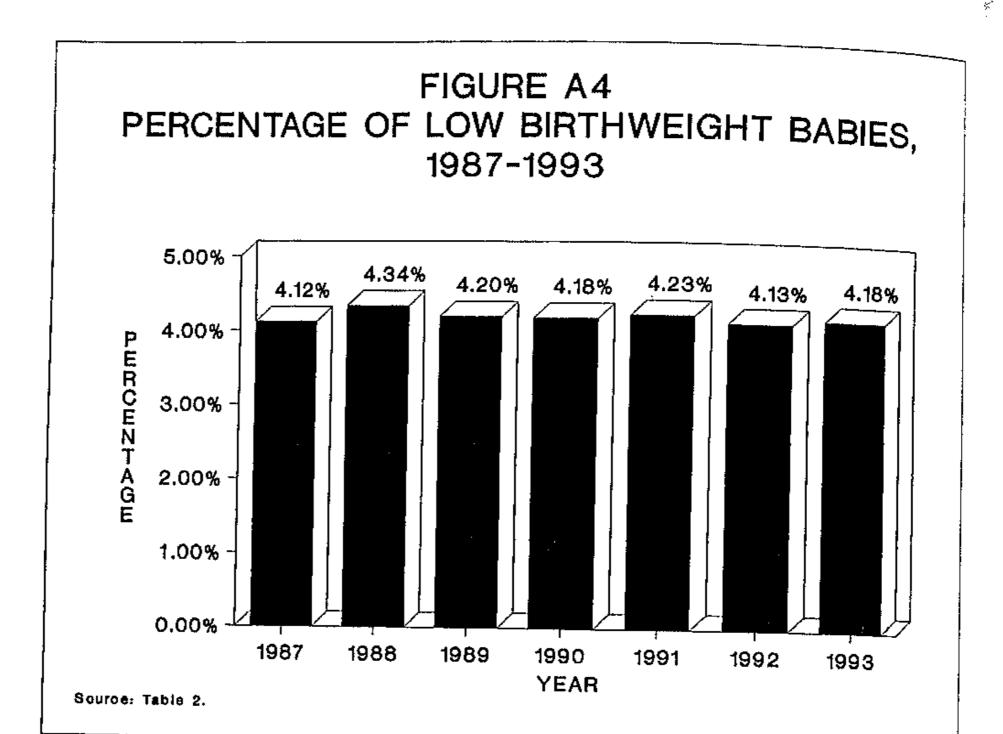
¹ Excludes breech deliveries.

² See Appendix E for details of method.









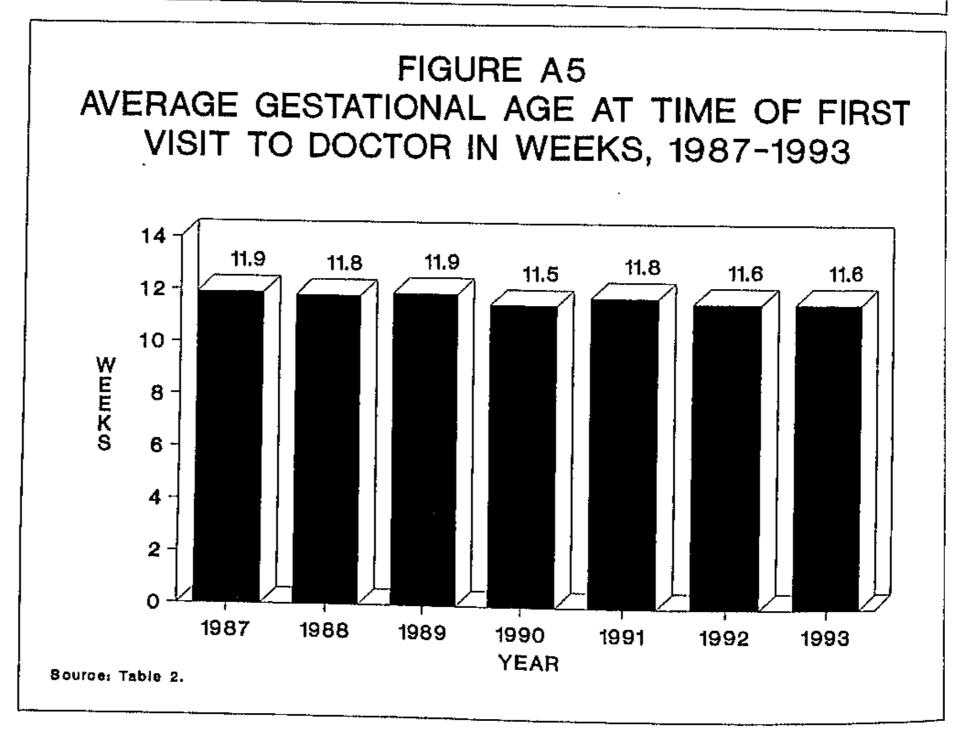


FIGURE A6 AVERAGE LENGTH OF STAY IN DAYS FOR MOTHERS AND INFANTS, 1987-1993

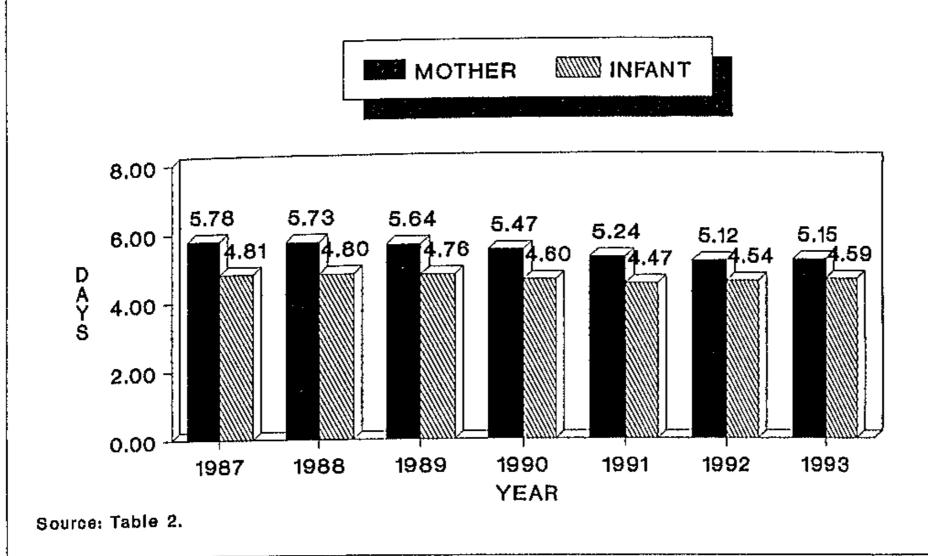


FIGURE A7 PERCENTAGE OF CAESAREAN BIRTHS 1987-1993

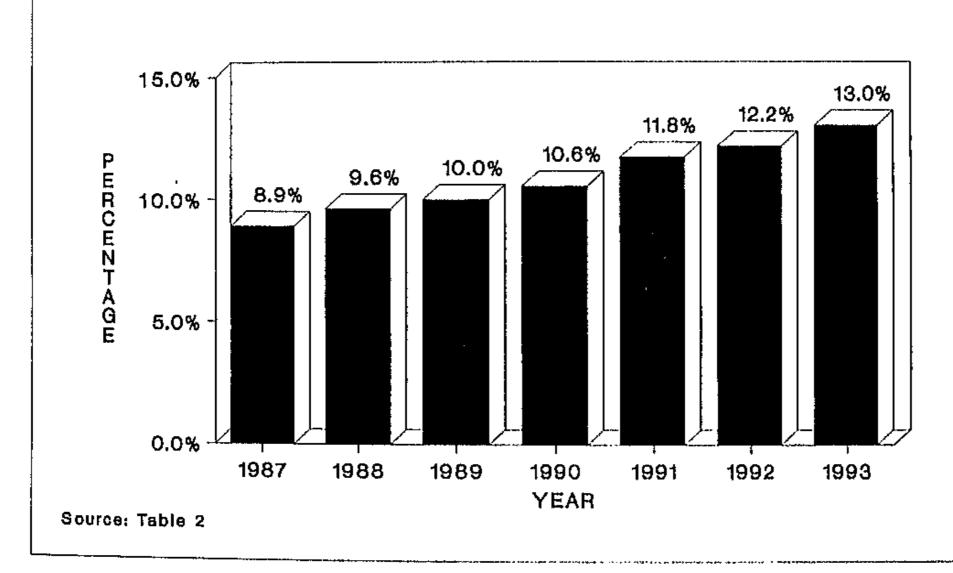


FIGURE A8 PERCENTAGE OF MOTHERS BREASTFEEDING, 1987-1993

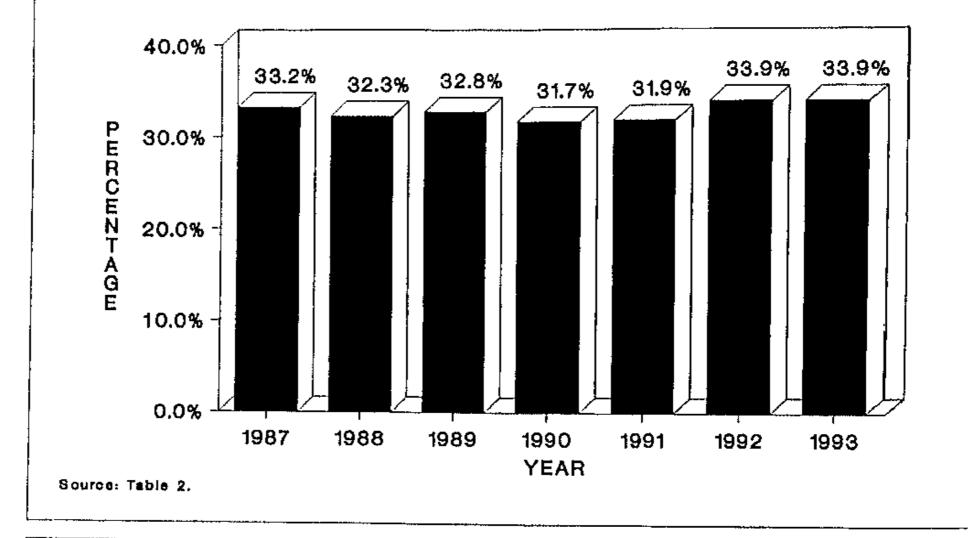
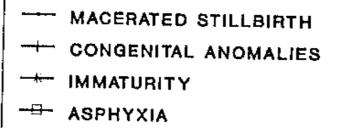
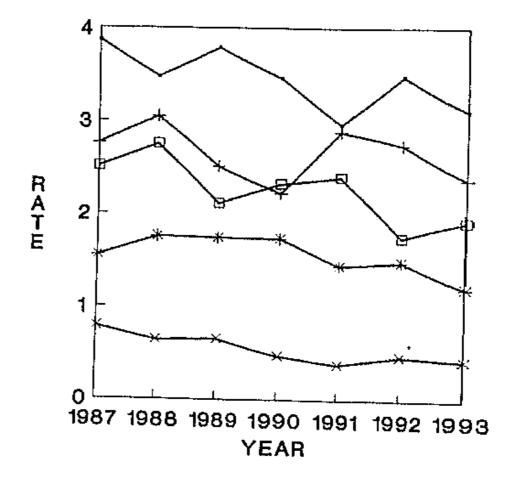


FIGURE A9 WIGGLESWORTH CLASSES RATES, 1987-1993



SPECIFIC CONDITIONS



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

1993 SECTION B: GENERAL CHARACTERISTICS

GENERAL CHARACTERISTICS, 1993

PART 1: SINGLETON BIRTHS

TABLE 3

AGE OF MOTHER
LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS
AND MORTALITY RATES, 1993

SINGLETON BIRTHS

		T		STILL	EARLY	EARLY	PERINATAL	<u> </u>
AGE OF	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
MOTHER	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMP.
UNDER 15	12	0.0	0	0.0	0	0.0	0.0	0.0
15-19	2555	5.3	18	7.0	10	3.9	10.9	8.6
20-24	7314	15.2	40	5.4	23]	3.1	8.6	5.9
25-29	14189	29.5	60	4.2	35	2.5	6.7	4.9
30-34	15238	31.7	71	4.6	43	2.8	7.4	5.6
35-39	7012	14.6	55	7.8	15	2.1	9.9	7.4
40-44	1573	3.3	25	15.6	4	2.5	18. 1	13.2
45 AND OVER	89	0.2	3	32.6	1 1	11.2	43.5	22.2
NOT STATED	48	0.1	0	0.0	0	0.0	0.0	0.0
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

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

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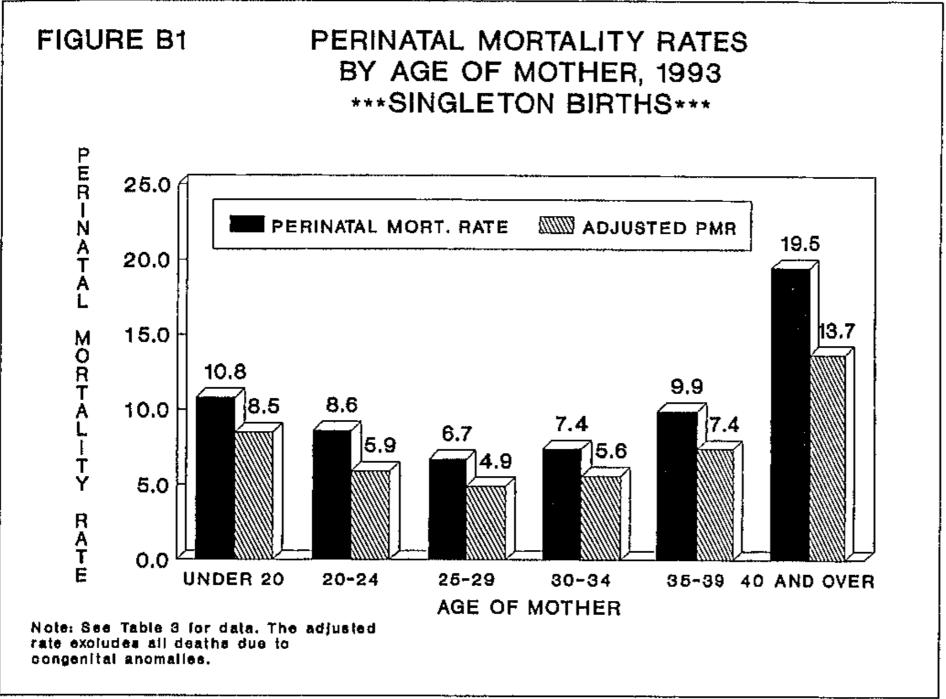
TABLE 4

MATERNAL PARITY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

			· · · · · · · · · · · · · · · · · · ·		 			
MATERNAL PARITY 0	LIVE BIRTHS 17030	PERCENT LIVE BIRTHS		STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
1 2 3 4 5 6 MORE THAN 6 NOT STATED	17030 14027 8498 4424 1902 936 476 611 126	35.5 29.2 17.7 9.2 4.0 1.9 1.0	93 63 49 21 10 14 5	5.4 4.5 5.7 4.7 5.2 14.7 10.4 14.5	58 28 26 6 9 2 0	3.4 2.0 3.1 1.4 4.7 2.1 0.0 0.0	8.8 6.5 8.8 6.1 9.9 16.8 10.4 14.5	6.7 4.4 6.1 4.5 6.8 13.7 10.4 12.9
TOTAL	48030	0.3	8	59.7	2	15.9	74.6	53.4
	40030	100.0	272	5.6	131	2.7	8.3	6.1

32



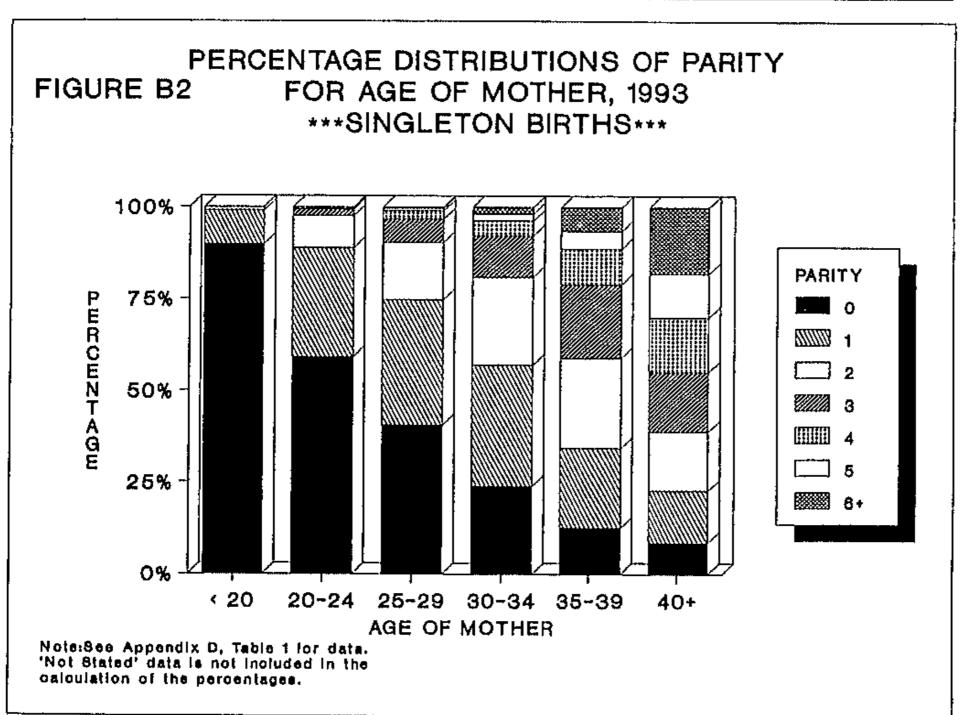


TABLE 5

MARITAL STATUS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

		~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~, ~ — · · · · ·			······································	
		PEDOGNI	0.7(1.1	STILL	EARLY NEONATAL	EARLY NEONATAL	PERINATAL MORTALITY	ADJUSTED
MARITAL	LIVE	PERCENT	STILL	BIRTH				
STATUS	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
MARRIED	38360	79.9	202	5.2	99	2.6	7.8	5.8
SINGLE	8708	18.1	63	7.2	28	3.2	10.4	7.3
WIDOWED	72	0.1	0	0.0	1	13.9	13.9	13.9
SEPARATED	810	1.7	6	7.4	2	2.5	9.8	8.6
DIVORCED	53	0.1	0	0.0	1	18.9	18.9	0.0
NOT STATED	27	0.1	1	35.7	0	0.0	35.7	0.0
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

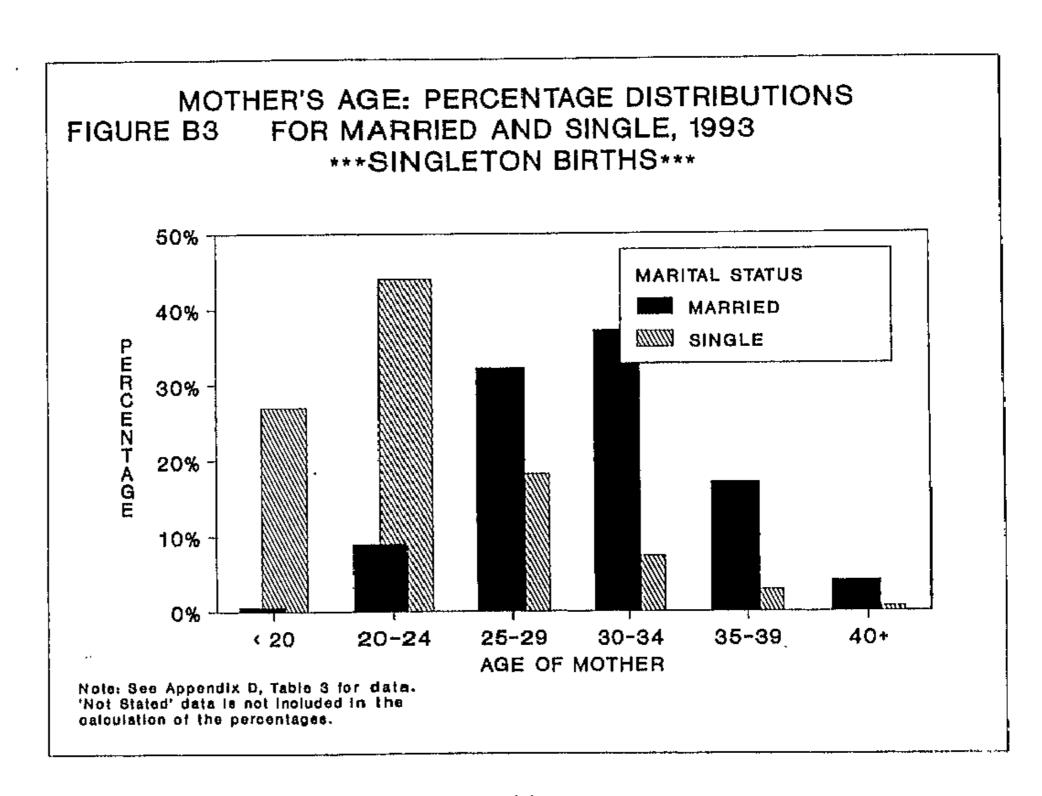


TABLE 6

FATHER'S OCCUPATION LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

		PERCENT	11-11	STILL	EARLY	EARLY	PERINATAL	
FATHER'S	LIVE	LIVE	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
OCCUPATION	BIRTHS	BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
FARMERS & FARM MANAGERS	3958	8.2	29	7.3	16	4.0	11.3	9.5
OTHER AGRICULTURAL								:
OCCUPATIONS			_		_			
AND FISHERMEN	674	1.4	3	4.4	3	4.5	8.9	8.9
HIGHER PROFESSIONAL	1808	3.8	11	6.0	2 5	1.1	7.1	5.0
LOWER PROFESSIONAL	2056	4.3	8	3.9		2.4	6.3	3.9
EMPLOYERS & MANAGERS	4237	8.8	17	4.0	6	1.4	5.4	4.5
SALARIED EMPLOYEES	1482	3.1	5	3.4	3	2.0	5.4	3.4
INTERMEDIATE	4077	ا م	97	0.6	10	40	10.7	0.4
NON-MANUAL WORKERS	4277	8.9	37	8.6	18	4.2	12.7	9.1
OTHER NON-MANUAL WORKERS	4071	8.5	23	5,6	5	1.2	6.8	5.1
SKILLED MANUAL	4071	0.5	20	0,0	~	1,2	0.0	0.1
WORKERS	9239	19.2	29	3.1	23	2.5	5.6	3.7
SEMI-SKILLED	023	'*-]
MANUAL WORKERS	2915	6.1	12	4.1	5	1.7	5.8	4.8
UNSKILLED								
MANUAL WORKERS	1913	4.0	13	6.7	4	2,1	8.8	6.2
UNEMPLOYED	1637	3.4	10	6.1	8	4.9	10.9	7.9
NOT CLASSIFIABLE	223	0,5	0	0.0	0	0.0	0.0	0.0
NOT APPLICABLE	9280	19.3	69	7.4	31	3.3	10.7	7.6
NOT STATED	260	0.5	6	22.6	2	7.7	30.1	19.0
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

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

ADJUSTED

PMR

5.8

7.3

13.9

8.6

0.0

0.0

6.1

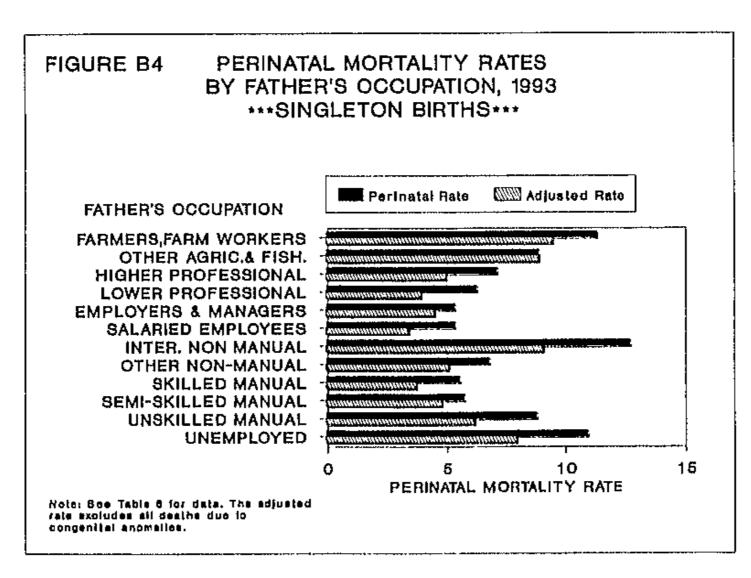


TABLE 7

NUMBER OF PREVIOUS STILLBIRTHS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON 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	29906	96.5	154	5.1	67	2.2	7.4	5.2
1	747	2.4	15	19.7	4	5.4	24.9	18.5
2	73	0.2	2	26.7	0	0,0	26.7	26.7
3 AND OVER	46	0.1	0	0.0	0	0.0	0.0	0.0
NOT STATED	228	0.7	8	33.9	2	8.8	42.4	30.0
TOTAL	31000	100.0	179	5.7	73	2.4	8.1	5.8

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

TABLE 8

BIRTHWEIGHT - ALL BIRTHS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

				STILL	EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
500-749	29	0.1	19	395.8	23	793.1	875.0	860.5
750-999	47	0.1	20	298.5	15	319.1	522.4	475.4
1000-1249	71	0.1	24	252.6	8	112.7	336.8	267.4
1250-1499	84	0.2	19	184.5	5	59.5	233.0	177.1
1500-1999	337	0.7	26	71.6	15	44.5	112.9	66.7
2000-2499	1061	2,2	33	30.2	18	17.0	46.6	28.0
2500-2999	5183	10.8	48	9.2	10	1.9	11.1	8.8
3000-3499	15423	32.1	36	2.3	15	1.0	3.3	2.3
3500-3999	17069	35.5	29	1.7	12	0.7	2.4	2.0
4000-4499	7137	14.9	9	1.3	5	0.7	2.0	1.3
4500 AND OVER	1553	3.2	6	3.8	2	1.3	5.1	4.5
NOT STATED	36	0.1	3	76.9	3	83.3	153.8	83.3
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

TABLE 9

BIRTHWEIGHT - MALES LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

JUSTED

PMR

5.2

18.5

26.7

0.0

30.0

5.8

USTED

PMR

60.5

75.4

67.4

77.1

66.7

28.0

8.8

2.3

2.0

1.3

4.5

	- u - u - u - u			STILL	EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTH\$	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
500-749	15	0.1	7	318.2	11	733.3	818.2	818.2
750-999	22	0.1	8	266.7	13	590.9	700.0	666.7
1000-1249	36	0.1	13	265.3	5	138.9	367.3	311.1
1250-1499	40	0.2	12	230.8	3	75.0	288.5	212.8
1500-1999	157	0,6	13	76.5	9	57.3	129.4	75.0
2000-2499	507	2.1	20	38.0	8	15.8	53.1	36.7
2500-2999	2238	9.1	27	11.9	5	2,2	14.1	11.1
3000-3499	7180	29.1	22	3.1	6	0.8	3.9	2.9
3500-3999	9089	36.8	12	1.3	5	0.6	1.9	1.4
4000-4499	4346	17.6	6	1.4	4	0.9	2.3	1.6
4500 AND OVER	1015	4.1	3	2.9	1	1.0	3.9	3.9
NOT STATED	20	0.1	1	47.6	1	50.0	95.2	0.0
TOTAL	24665	100.0	144	5.8	71	2.9	8.7	6.5

TABLE 10

BIRTHWEIGHT - FEMALES LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

		9 1.			_			
				STILL	EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	PERCENT	STILL	BIRTH .	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
500-749	14	0.1	12	461.5	12	857.1	923.1	904.8
750-999	25	0,1	12	324.3	2	80.0	378.4	323.5
1000-1249	35	0.1	11	239.1	3	85.7	304.3	219.5
1250-1499	44	0.2	7	137.3	2	45.5	176.5	142.9
1500-1999	180	0.8	13	67.4	6	33.3	98.4	59.5
2000-2499	554	2.4	13	22.9	10	18.1	40.6	19.8
2500-2999	2943	12.6	21	7.1	5	1.7	8.8	7.1
3000-3499	8240	35.3	14	1.7	9	1.1	2.8	1.8
3500-3999	7977	34.2	17	2.1	7	0.9	3.0	2.6
4000-4499	2790	11.9	3	1.1	1	0.4	1.4	0.7
4500 AND OVER	537	2.3	3	5.6	1	1.9	7.4	5.6
NOT STATED	16	0.1	2	111.1	2	125.0	222.2	176.5
TOTAL	23355	100.0	128	5.5	60	2.6	8.0	5.7

Note: Tables 9 and 10 do not include 10 births for which the sex was recorded as 'indeterminate'.

TABLE 11

GESTATION PERIOD AT DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

				STILL	EARLY	EARLY	PERINATAL	
GESTATION	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
PERIOD (WEEKS)	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
LESS THAN 22	3	0.0	2	400.0	2	666.7	800.0	750.0
22-27	79	0.2	17	177.1	37	468.4	562.5	533.3
28-31	206	0.4	60	225.6	11	53.4	266.9	220. O
32-36	1606	3.3	65	38.9	28	17.4	55.7	39. O
37-41	42229	87.9	112	2.6	46	1.1	3.7	2.6
42 AND OVER	3900	8.1	16	4.1	7	1.8	5.9	3.6
NOT STATED	7	0.0	0	0.0	0	0.0	0.0	0.0
TOTAL	48030	100,0	272	5.6	131	2.7	8.3	6.1

TABLE 12

INTERVAL IN YEARS SINCE LAST BIRTH LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

TIME SINCE	LIVE	PERCENT	STILL	STILL BIRTH	EARLY NEONATAL	EARLY NEONATAL	PERINATAL MORTALITY	ADJUSTED
LAST BIRTH	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
NO PREVIOUS BIRTH	17030	35.5	93	5.4	58	3.4	8.8	6.7
1 YEAR OR LESS	522	1.1	4	7.6	0	0.0	7.6	7.6
> 1 YEAR TO 2 YEARS	6968	14,5	31	4.4	23	3.3	7.7	5.4
>2 YEARS TO 3 YEARS	7715	16.1	42	5.4	14	1.8	7.2	5.6
>3 YEARS TO 4 YEARS	5414	11.3	24	4.4	8	1.5	5.9	3.9
>4 YEARS TO 5 YEARS	3304	6.9	9	2.7	7	2.1	4.8	3.3
>5 YEARS TO 6 YEARS	2103	4.4	13	6.1	4	1.9	8.0	5.7
MORE THAN 6 YEARS	4499	9.4	44	9.7	12	2.7	12.3	9.1
NOT STATED	475	1.0	12	24.6	5	10.5	34.9	20.8
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

TABLE 13

MONTH OF BIRTH LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

				STILL	EARLY	EARLY	PERINATAL	<u> </u>
MONTH OF	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
BIRTH	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	\PMR
JANUARY	3965	8.3	23	5.8	16	4.0	9.8	6.5
FEBRUARY	3718	7.7	22	5.9	15	4.0	9.9	β.3
MARCH	4052	8.4	25	6.1	12	3.0	9.1	6.6
APRIL	4048	8.4	29	7.1	9	2.2	9.3	7.4
MAY	4308	9.0	19	4.4	9	2.1	6.5	/ 3.9
JUNE	4161	8.7	22	5.3	13	3,1	8.4	5.5
JULY	4231	8.8	21	4.9	7	1.7	6. 6	5.2
AUGUST	4059	8.5	28	6.9	16	3.9	10.8	5.9
SEPTEMBER	4188	8.7	24	5.7	6	1.4	7.1	5.5
OCTOBER	4070	8.5	20	4.9	12	2.9	7.8	6,1
NOVEMBER	3667	7.6	19	5.2	6	1.6	6.8	6.5
DECEMBER	3563	7.4	20	5.6	10	2.8	8.4	6.2
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

JUSTED PMR

JUSTED

PMR

50.0

33.3

20.0

39.0

2.6

3.6

0.0

6.1

6.7

7.6

5.4

5.6

3.9

3.3

5.7

9.1

20.8

6.1

GENERAL CHARACTERISTICS, 1993

PART 2: MULTIPLE BIRTHS

TABLE 14

MATERNITIES, TWINS, TRIPLETS AND TWINNING RATE FOR 1993

BIRTHS*	MATERNITIES	SETS OF TWINS	SETS OF TRIPLETS	TWINNING RATE
49314	48803	487	12	10.0

^{*} Includes stillbirths.

TABLE 15

AGE OF MOTHER LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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 PI/9
15-19	57	5.7	0	0.0	2	35.1	35.1	35.1
20-24	104	10.4	3	28.0	2	19.2	46.7	28.6
25-29	297	29.7	4	13.3	6	20.2	33.2	23.5
30-34	360	36.0	3	8.3	3	8.3	1 6 .5	13.8
35-39	151	15.1	1	6.6	3	19.9	26.3	6.7
40-44	30	3.0	0	0.0	0	0.0	0.0	0.0
NOT STATED	2	0.2	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

TABLE 16

MATERNAL PARITY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

					—			
MATERNAL PARITY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTO PM9
0	345	34.5	3	8.6	6	17.4	25.9	25.9
1	305	30.5	5	16.1	5	16.4	32.3	19.6
2	163	16,3	0	0.0	1	6.1	6.1	00
3	91	9.1	2	21,5	0	0.0	21.5	00
4	51	5.1	1	19.2	2	39.2	57.7	200
5	28	2.8	0	0.0	l o	0.0	0.0	0.0
6	10	1.0	0	0.0	0	0.0	0.0	0.0
MORE THAN 6	8	0.8	0	0.0	2	250.0	250.0	2500
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	179
				· ····································	·		All and the second second	B 10

WINNING

RATE

10.0

TABLE 17

MARITAL STATUS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

MARITAL	LIVE	PERCENT	STILL	STILL BIRTH	EARLY NEONATAL	EARLY NEONATAL	PERINATAL MORTALITY	ADJUSTED		
STATUS	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR		
MARRIED	823	82.2	11	13.2	10	12.2	25.2	14.5		
SINGLE	156	15.6	0	0.0	6	38.5	38.5	38.5		
SEPARATED	20	2.0	0	0.0	0	0.0	0.0	0.0		
DIVORCED	2	0.2	0	0.0	0	0.0	0.0	0.0		
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9		

TABLE 18

FATHER'S OCCUPATION LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	79	7.9	0	0.0	2	25.3	25,3	0.0
OTHER AGRICULTURAL OCCUPATIONS								
& FISHERMEN	18	1.8	0	0.0	0	0.0	0.0	0.0
HIGHER PROFESSIONAL	41	4.1	1	23.8	0	0.0	23.8	0.0
LOWER PROFESSIONAL	61	6.1	1	16.1	1	16.4	32.3	32.3
EMPLOYERS & MANAGERS	105	10,5	2	18.7	2	19.0	37.4	37.4
SALARIED EMPLOYEES	24	2.4	1	40.0	1	41 .7	80.0	80.0
INTERMEDIATE NON-MANUAL								
WORKERS	111	11.1	0	0.0	0	0.0	0.0	0.0
OTHER NON-MANUAL								
WORKERS	92	9.2	2	21.3	0	0.0	21.3	0.0
SKILLED MANUAL WORKERS	165	16.5	3	17.9	0	0.0	17.9	6.0
SEMI-SKILLED MANUAL WORKERS	64	6.4	1	15.4	0	0.0	15.4	15.4
UNSKILLED MANUAL WORKERS	39	3.9	0	0.0	0	0.0	0.0	0.0
UNEMPLOYED	25	2.5	0	0.0	4	160.0	160.0	87.0
NOT CLASSIFIABLE	5	0.5	0	0.0	0	0.0	0.0	0.0
NOT APPLICABLE	170	17.0	0	0.0	6	3 5.3	35.3	35.3
NOT STATED	2	0.2	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

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

0.0

17.9

.0

NATAL TALITY ADJUSTO ATE 243 25.9 25.9 32.3 19.6 6.1 00 21.5 $\bullet \, \emptyset$ **57.7** 200 0.0 0.00.0 0.0 50.0 250.0 26.7 179

TABLE 19

NUMBER OF PREVIOUS STILLBIRTHS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	641	97.7	5	7.7	9	14.0	21.7	12.5
1	14	2.1	3	176.5	1 1	71.4	235.3	71.4
3 AND OVER	1	0.2	0	0.0	0	0.0	0.0	0.0
TOTAL	656	100.0	8	12.0	10	15.2	27.1	13.7

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, 1993

MULTIPLE BIRTHS

	<u>,,</u>				FARIV	CADIV	PERINATAL	
				STILL	EARLY	EARLY	MORTALITY	ADJUSTEO
BIRTHWEIGHT	LIVE	PERCENT	STILL '	BIRTH	NEONATAL	NEONATAL	1	
(GRAMMES)	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
500-749	9	0.9	1	100.0	7	777.8	800.0	800.0
750-999	9	0.9	3	250.0	3	333.3	500.0	400.0
1000-1249	22	2.2	2	83.3	0	0.0	83.3	43.5
1250-1499	23	2,3	2	80.0	1	43.5	120.0	83.3
1500-1999	122	12.2] 1	8.1	0	0.0	8.1	8.1
2000-2499	236	23.6	1	4.2	0	0.0	4.2	0.0
2500-2999	348	34.8	1	2.9	1	2.9	5.7	2.9
3000-3499	191	19.1	0	0.0	1	5.2	5.2	0.0
3500-3999	32	3.2	0	0.0	0	0.0	0.0	0.0
4000-4499	5	0.5	lo	0.0	0	0.0	0.0	0.0
NOT STATED	4	0.4	0	0.0	3	750.0	750.0	500.0
		.	11	10.9	16	16.0	26.7	17.9
TOTAL	1001	100.0		10.5		1010		I F I O

TABLE 21

BIRTHWEIGHT - MALES LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

JUSTED

PMR

2.5

71.4

0.0

3.7

DJUSTEO

0.008

400.0

43.5

83.3

8.1

0.0

2.9

0.0

0.0

0.0

500.0

17.9

PMR

				STILL	. EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
500-749	3	0.6	1	250.0	3	1000.0	1000.0	1000.0
750-999	3	0.6	1	250.0	1	333.3	500.0	500.0
1000-1249	7	1.4	0	0.0	0	0.0	0.0	0.0
1250-1499	9	1.8	0	0.0	0	0.0	0.0	0.0
1500-1999	56	10.9	1	17.5	0	0.0	17.5	17.5
2000-2499	112	21.8	0	0.0	0	0.0	0.0	0.0
2500-2999	175	34.1	0	0.0	1	5.7	5.7	0.0
3000-3499	122	23.8	0	0.0	1	8.2	8.2	0.0
3500-3999	22	4.3	0	0.0	0	0.0	0.0	0.0
4000-4499	3	0.6	0	0.0	0	0.0	0.0	0.0
NOT STATED	1	0.2	0	0.0	0	0.0	0.0	0.0
,TOTAL	513	100.0	3	5.8	6	11.7	17.4	13.6

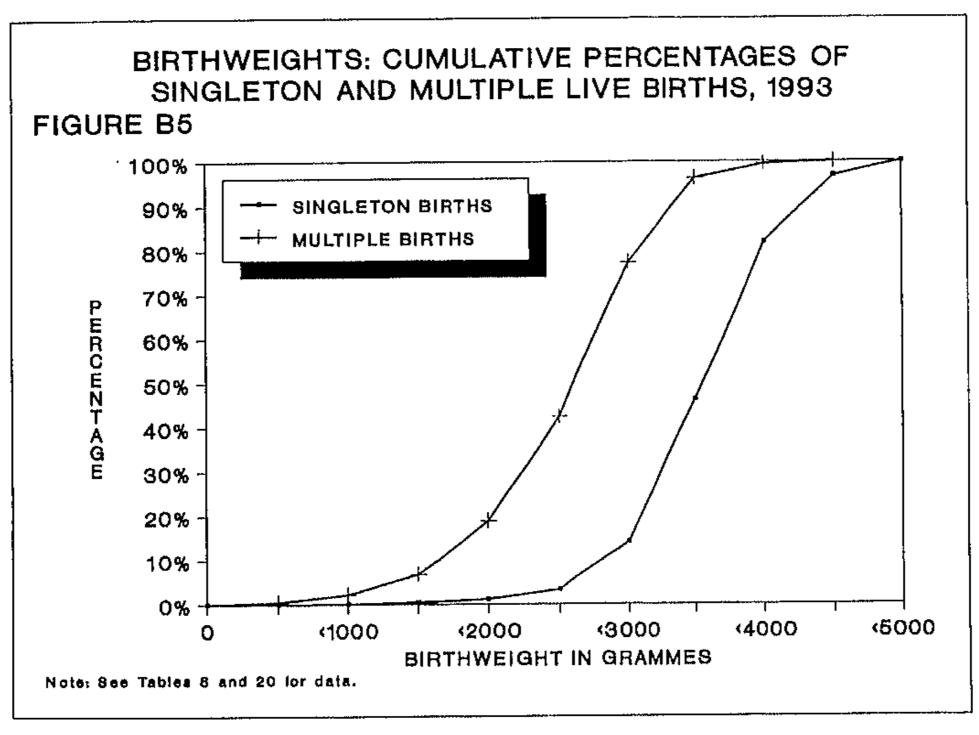


TABLE 22

BIRTHWEIGHT - FEMALES LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

				,,,,,	. –			
				STILL	EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	PERCENT	STILL	B!RTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
500-749	6	1.2	0	0.0	4	666.7	666.7	666.7
750-999	6	1.2	2	250.0	2	333.3	500.0	333.3
1000-1249	15	3.1	2	117.6	0	0.0	117.6	62.5
1250-1499	14	2.9	2	125.0	1	71.4	187.5	133.3
1500-1999	66	13.5	0	0.0	0	0.0	0.0	0.0
2000-2499	124	25.4	1	8.0	0	0.0	8.0	0.0
2500-2999	173	35.5	1	5.7	0	0.0	5.7	5.7
3000-3499	69	14.1	0	0.0	0	0.0	0.0	0.0
3500-3999	10	2.0	0	0.0	0	0.0	0.0	0.0
4000-4499	2	0.4	0	0.0	0	0.0	0.0	0.0
NOT STATED	3	0.6	0	0.0	3	1000.0	1000.0	1000.0
TOTAL	488	100.0	8	16.1	10	20.5	36.3	22.5

TABLE 23

GESTATION PERIOD AT DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	2.1	0	0.0	8	381.0	381.0	381.0
28-31	61	6.1	4	61.5	5	82.0	138.5	96.8
32-36	305	30.5	6	19.3	0	0.0	19.3	6,5
37-41	610	60.9	1	1.6	3	4.9	6.5	3.3
42 AND OVER	4	0.4	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

TABLE 24

INTERVAL IN YEARS SINCE LAST BIRTH LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

ISTED

MR

6.7

33.3

32.5

8,8

0.0

0.0

5.7

0.0

0.0

0.0

0.00

22.5

USTED

MR

31.0

96.8

6,5

3.3

0.0

7.9

<u> </u>				STILL	EARLY	EARLY	PERINATAL	
TIME SINCE	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
LAST BIRTH	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
NO PREVIOUS BIRTH	345	34.5	3	8.6	6	17.4	25.9	25.9
1 YEAR OR LESS	14	1.4	1	66.7	1	71.4	133.3	133.3
> 1 YEAR TO 2 YEARS	153	15.3	3	19.2	1	6.5	25.6	0.0
>2 YEARS TO 3 YEARS	157	15.7	1	6.3	3	19.1	25.3	19.1
>3 YEARS TO 4 YEARS	113	11.3	0	0.0	1	8.8	8.8	8.8
>4 YEARS TO 5 YEARS	70	7.0	0	0,0	1	14.3	14.3	14.3
>5 YEARS TO 6 YEARS	48	4.8	1	20.4	1	20.8	40.8	0.0
MORE THAN 6 YEARS	90	9.0	1	11.0	0	0.0	11.0	11.0
NOT STATED	11	1.1	1	83.3	2	181.8	250.0	100.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

TABLE 25

MONTH OF BIRTH LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

				STILL	EARLY	EARLY	PERINATAL	
MONTH OF	LIVE	PERCENT	STILL	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
BIRTH	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
JANUARY	87	8.7	2	22.5	1	11.5	33.7	11.5
FEBRUARY	66	6.6	1	14.9	0	0.0	14.9	0.0
MARCH	62	6.2	0	0.0	2	32.3	32.3	16.4
APRIL	71	7.1	0	0.0	0	0.0	0.0	0.0
MAY	78	7.8	1	12.7	4	51.3	63.3	39.0
JUNE	92	9.2	2	21.3	9	97.8	117.0	107.5
JULY	87	8.7	1	11.4	0	0.0	11.4	11.4
AUGUST	81	8.1	1	12.2	0	0.0	12,2	0.0
SEPTEMBER	100	10.0	0	0.0	. 0	0.0	0.0	0.0
OCTOBER	80	8.0	2	24.4	0	0.0	24.4	12.3
NOVEMBER	110	11.0	1	9,0	0	0.0	9.0	9.0
DECEMBER	87	8.7	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

1993 SECTION C: PERINATAL CARE

PERINATAL CARE, 1993

PART 1: SINGLETON BIRTHS

TABLE 26

TYPE OF ANTENATAL CARE LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

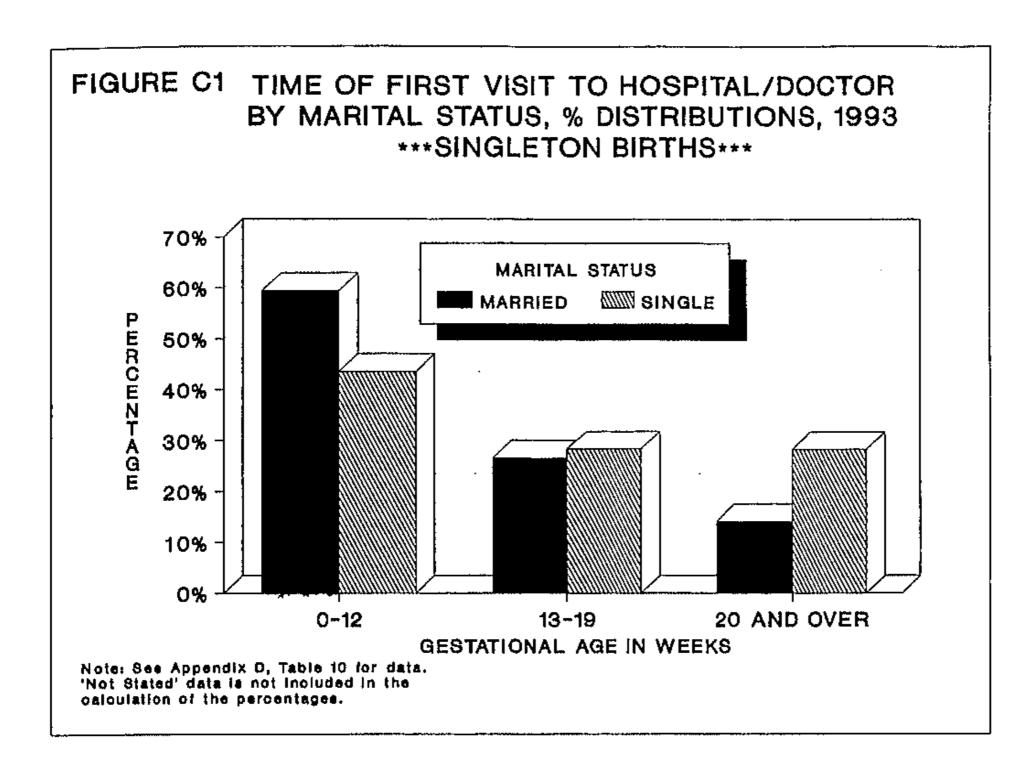
TYPE OF ANTENATAL CARE	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL BIRTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
HOSPITAL/	× · · · · · · · ·							
OBSTETRICIAN	16396	34.1	102	6.2	44	2.7	8.8	6.4
GENERAL		•			·			
PRACTITIONER ONLY	228	0.5	4	17.2	2	8.8	25.9	13.1
HOSPITAL AND G.P.								
COMBINED	30018	62.5	153	5.1	75	2.5	7.6	5.5
NONE	201	0.4	9	42.9	7	34.8	76.2	62.8
NOT STATED	1187	2.5	4	3.4	3	2.5	5.9	5.0
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

TABLE 27

TIME OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	25506	53.1	120	4.7	63	2,5	7.1	5,2
13-19	12182	25.4	58	4.7	27	2.2	6.9	4.7
20 AND OVER	7625	15.9	69	9.0	27	3,5	12.5	8.9
NOT STATED	2717	5.7	25	9.1	14	5.2	14.2	12.4
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1



STED

STED

/R .2 .7 .9 .4

TABLE 28

MOTHER'S LENGTH OF STAY IN HOSPITAL PRIOR TO DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	44927	93.8	243	5.4	110	2.4	7.8	5.8
3-5 DAYS	1525	3,2	16	10.4	11	7.2	17.5	12.4
6-8 DAYS	519	1.1	4	7.6	4	7.7	15.3	3.9
9-11 DAYS	267	0.6	2	7.4	3	11.2	18.6	14.9
12-14 DAYS	160	0.3	2	12.3	1	6.3	18.5	12.4
2 WEEKS OR MORE	481	1.0	5	10.3	2	4.2	14.4	12.4
NOT STATED	9	0.0	0	0.0	0	0.0	0.0	0.0
TOTAL	47888	100.0	272	5.6	131	2.7	8.4	6.1

Note: Domicillary births of which there were 142 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, 1993

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	4542	9.5	155	33.0	59	13.0	45.6	33.6
3-5 DAYS	35920	75.0	84	2.3	48	1.3	3.7	2.6
6-8 DAYS	6040	12.6	22	3.6	17	2.8	6.4	4.8
9-11 DAYS	1095	2.3	1	0.9	4	3.7	4.6	3.7
12-14 DAYS	127	0.3	2	15.5	0	0.0	15.5	15.5
2 WEEKS OR MORE	106	0.2	6	53.6	1	9.4	62.5	54.1
NOT STATED	58	0.1	2	33.3	2	34.5	66.7	50.8
TOTAL	47888	100.0	272	5.6	131	2.7	8.4	6.1

Note: Domiciliary births of which there were 142 are excluded from this table.

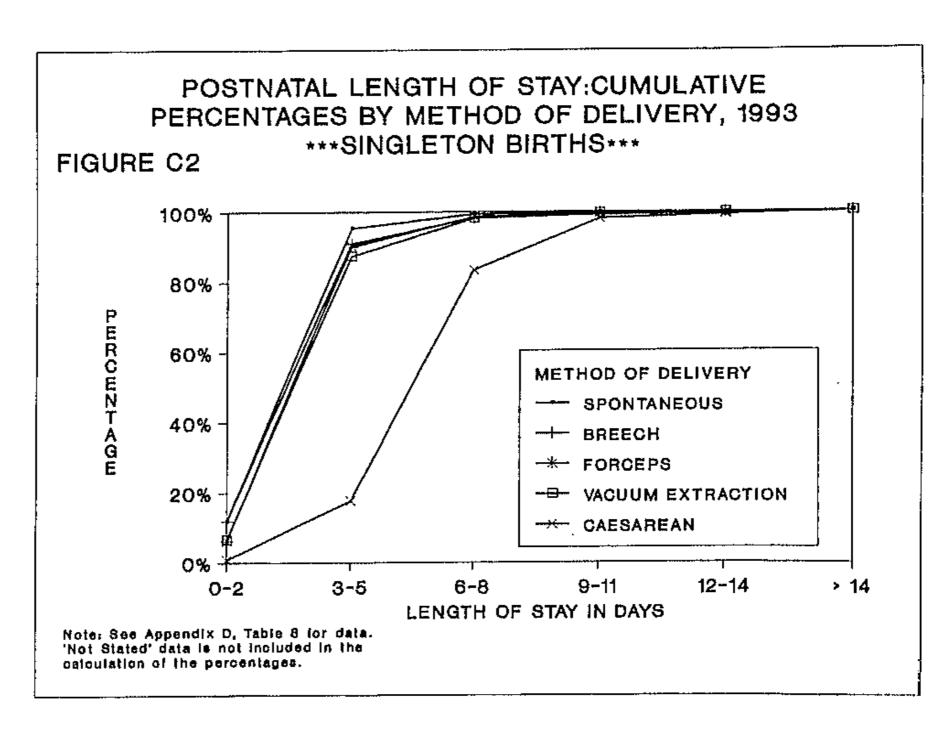


TABLE 30

RUBELLA: IMMUNE STATUS OF MOTHER NUMBERS AND PERCENTAGES, 1993

SINGLETON BIRTHS

RUBELLA	FREQUENCY	PERCENT
IMMUNE	42925	88.9
NOT IMMUNE	1009	2.1
UNKNOWN	4099	8.5
NOT STATED	269	0.6
TOTAL	48302	100.0

ISTED VIR

2.6

4.8

3.7

5.5

4.1

8.0

6.1

TABLE 31

METHOD OF DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

METHOD OF DELIVERY	LIVE BIRTHS	PERCENT LIVE BIRTHS	STILL B!RTHS	STILL BIRTH RATE	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE	PERINATAL MORTALITY RATE	ADJUSTED PMR
SPONTANEOUS BREECH/FORCEPS FORCEPS VACUUM EXTRACTION CAESAREAN OTHER, UNSPECIFIED & NOT STATED	34818 664 3719 2525 6001	72.5 1.4 7.7 5.3 12.5	192 42 8 3 26	5.5 59.5 2.1 1.2 4.3	67 19 2 1 40 2	1.9 28.6 0.5 0.4 6.7	7.4 86.4 2.7 1.6 11.0	5.2 71.9 2.4 1.2 8.0
TOTAL	48030	100.0	272	5.6	131	2.7	8.3	6.1

TABLE 32

ADVANCE HOSPITAL BOOKINGS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

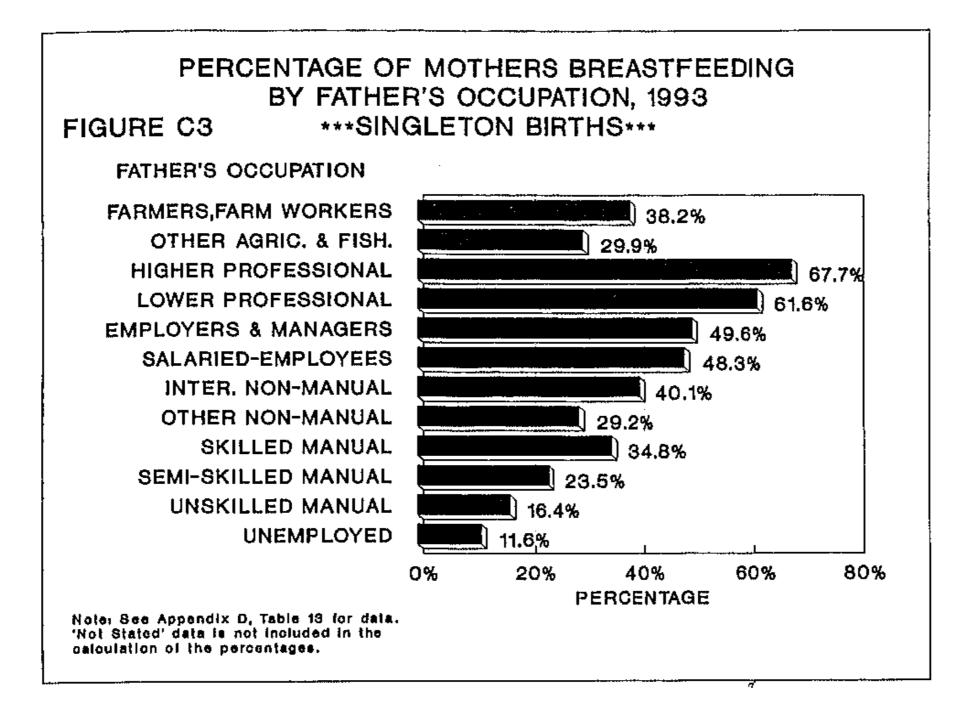
ADVANCE				STILL	EARLY	EARLY	PERINATAL	-
HOSPITAL	LIVE	PERCENT	STILL	B IRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
BOOKINGS	BIRTHS	LIVE BIRTHS	BIRTHS	RATE	DEATHS	RATE	RATE	PMR
BOOKED	47086	98.3	252	5.3	116	2.5	7.8	5.6
NOT BOOKED	682	1.4	20	28.5	14	20.5	48.4	40.2
NOT STATED	120	0.3	0	0.0	1	8.3	8.3	0.0
TOTAL	47888	100.0	272	5.6	131	2.7	8.4	6.1

Note: Domicillary births of which there were 142 are excluded from this table.

TABLE 33
AGE OF MOTHER BY INFANT'S TYPE OF FEEDING, 1993

	***SINGL	ETON BIRTHS**	*	
AGE OF		T)/DE OF FE	-DINO	
MOTHER		TYPE OF FEE		
FREQUENCY			ļ	
ROW PERCENT	NOT			
COL PERCENT	STATED	ARTIFICIAL	BREAST	TOTAL
UNDER 15	0	12	0	12
	0.00	100.00	0.00	
	0.00	0.04	0.00	0.02
15-19	23	2258	274	2555
	0.90	88.38	10.72	
	5.68	7.18	1.69	5.32
20-24	72	5726	1516	7314
	0.98	78.29	20.73	
	17.78	18.22	9.36	15.23
25-29	88	9258	4843	14189
	0.62	65.25	34.13	
	21.73	29.46	29.90	29.54
30-34	139	8853	6246	15238
	0.91	58.10	40.99	
	34.32	28.17	38.57	31.73
35-39	60	4191	2761	7012
	0.86	59.77	39.38	İ
	14.81	13.33	17.05	14.60
40-44	16	1039	518	1573
	1.02	66.05	32.93	,
	3.95	3.31	3.20	3.28
45 AND OVER	1	63	25	89
	1.12	70.79	28.09	
	0.25	0.20	0.15	0.19
NOT STATED	6	30	12	48
	12.50	62.50	25.00	
	1.48	0.10	0.07	0.10
TOTAL	405	31430	16195	48030
	0.84	65.44	33.72	100.00
	1		<u> </u>	<u></u>

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



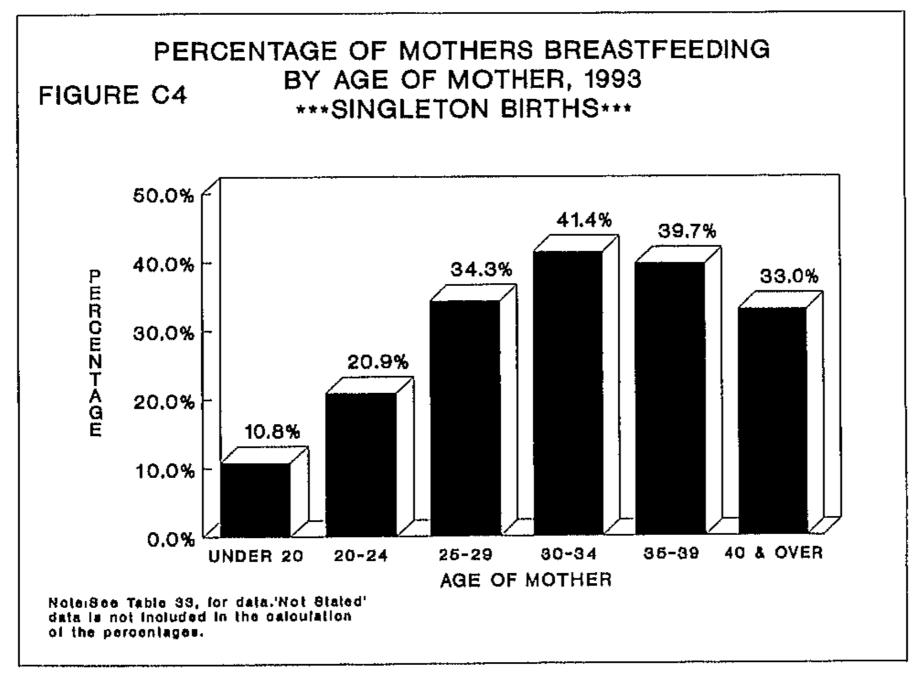


TABLE 34

INTER-HOSPITAL TRANSFER OF INFANTS LIVE BIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

INFANT TRANSFERS	LIVE BIRTHS	PERCENT LIVE BIRTHS	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE
TRANSFERRED NOT TRANSFERRED NOT STATED	346 47504 38	0.7 99.2 0.1	11 120 0	31.8 2.5 0.0
TOTAL	47888	100.0	131	2.7

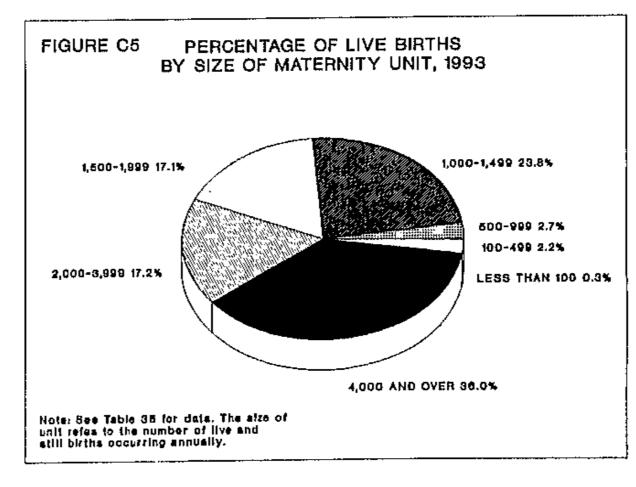
Note: Domiciliary births of which there were 142 are excluded from this table.

TABLE 35

SIZE OF MATERNITY UNIT LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	165	0.3	0	0.0	0	0.0	0.0	0.0
100-499	4	1056	2.2	5	4.7	1 1	0.9	5.7	3.8
500-999	2	1339	2.7	11	8.1	5	3.7	11.9	6.0
1000-1499	10	11654	23.8	77	6.6	40	3.4	10.0	7.7
1500-1999	5	8338	17.1	39	4.7	24	2.9	7.5	5.9
2000-3999	3	8386	17,2	44	5.2	17	2.0	7.2	5.8
4000 AND OVER	3	17951	36.7	107	5.9	60	3.3	9.2	6.2
TOTAL	41	48889	100.0	283	5.8	147	3.0	8.7	6.4

Note: This table includes multiple births but excludes domiciliary births of which there were 142. The size of the unit refers to the number of live and still births annually.



PERINATAL CARE, 1993

PART 2: MULTIPLE BIRTHS

TABLE 36

TYPE OF ANTENATAL CARE LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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 GENERAL	436	43.6	3	6.8	9	20.6	27.3	16.1
PRACTITIONER ONLY HOSPITAL AND G.P.	6	0.6	0	0.0	0	0.0	0.0	0.0
COMBINED	539	53.8	8	14.6	7	13.0	27.4	20.3
NONE	10	1.0	0	0.0	0	0.0	0.0	0.0
NOT STATED	10	1.0	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

TABLE 37

TIME OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	586	58.5	5	8.5	10 `	17.1	25.4	20.4
13-19	240	24.0	5	20.4	1 1	4.2	24.5	16.5
20 AND OVER	138	13.8	1	7.2	5	36.2	43.2	14.8
NOT STATED	37	3.7	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

TABLE 38

MOTHER'S LENGTH OF STAY IN HOSPITAL PRIOR TO DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	783	78.2	7	8.9	13	16.6	25.3	19.1
3-5 DAYS	72	7.2	1	13.7	1	13.9	27.4	27.4
6-8 DAYS	35	3,5	1	27.8	2	57.1	83.3	29.4
9-11 DAYS	24	2,4	1	40.0	0	0.0	40.0	0.0
12-14 DAYS	20	2.0	0	0.0	0	0.0	0.0	0.0
2 WEEKS OR MORE	67	6.7	1	14.7	0	0.0	14.7	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

Note: There were no domicillary mulitple births.

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TABLE 39

MOTHER'S LENGTH OF STAY IN HOSPITAL AFTER DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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	34	3.4	1	28.6	4	117.6	142.9	117.6
3-5 DAYS	455	45.5	5	10.9	8	17.6	28.3	13.2
6-8 DAYS	343	34.3	3	8.7	4	11.7	20.2	20.2
9-11 DAYS	116	11.6	1	8.5	l 0	0.0	8.5	8.5
12-14 DAYS	24	2.4	Ó	0.0	lo	0.0	0.0	0.0
2 WEEKS OR MORE	25	2.5	1 1	38.5	\	0.0	38.5	0.0
NOT STATED	4	0.4	0	0.0	0	0.0	0.0	0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

Note: There were no domiciliary mulitple births.

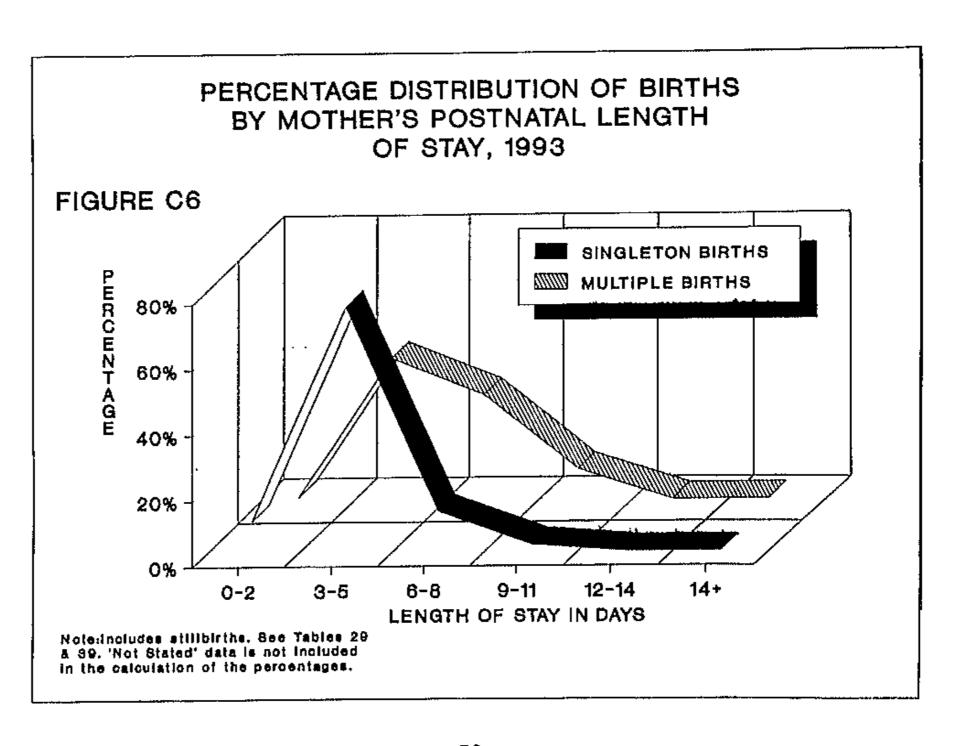


TABLE 40

RUBELLA: IMMUNE STATUS OF MOTHER NUMBERS AND PERCENTAGES, 1993

MULTIPLE BIRTHS

RUBELLA	FREQUENCY	PERCENT
IMMUNE	897	88.6
NOT IMMUNE	16	1.6
UNKNOWN	93	9.2
NOT STATED	6	0.6
TOTAL	1012	100.0

TABLE 41

METHOD OF DELIVERY LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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 BREECH/FORCEPS FORCEPS VACUUM EXTRACTION	375 146 64 57	37.5 14.6 6.4 5.7	5 0 2 0	13.2 0.0 30.3 0.0	8 3 0 0	21.3 20.5 0.0	34.2 20.5 30.3 0.0	23.9 13.8 15.4 0.0
CAESAREAN OTHER, UNSPECIFIED & NOT STATED	345 14	34.5 1.4	0	0.0	3 2	8.7 142.9	20.1 142.9	17.2 0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

TABLE 42

ADVANCE HOSPITAL BOOKINGS LIVE BIRTHS, STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

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 NOT BOOKED NOT STATED	966 33 2	96.5 3.3 0.2	10 1 0	10.2 29.4 0.0	14 2 0	14.5 60.6 0.0	24.6 88.2 0.0	18.6 0.0 0.0
TOTAL	1001	100.0	11	10.9	16	16.0	26.7	17.9

Note: There were no domiciliary mulitple births.

USTED PMR

17.6

13.2 20.2 8.5 0.0 0.0

0.0

17.9

TABLE 43
AGE OF MOTHER BY INFANT'S TYPE OF FEEDING, 1993

AGE OF		 		-
MOTHER	i:	TYPE OF FEI	EDING	
FREQUENCY				
ROW PERCENT	NOT		:	
COL PERCENT	STATED	ARTIFICIAL	BREAST	TOTAL
15-19	2	51	4	57
	3.51	89.47	7.02	# 00
	8.33	6,65	1.90	5.69
20-24	2	92	10	104
	1.92	88.46	9.62	10.00
	8.33	11.99	4.76	10.39
25-29	8	227	62	297
	2.69	76.43 29.60	20.88 29.52	29.67
30-34	6	263	91	360
30-34	1.67	73.06	25.28	300
	25.00	34.29	43.33	35.96
35-39	4	110	37	151
	2.65	72.85	24.50	
	16.67	14.34	17.62	15.08
40-44	0	24	6	30
	0.00	80.00	20.00	
	0.00	3.13	2.86	3.00
NOT STATED	2	0	0	2
	100.00	0.00	0.00	0.20
TOTAL	24	767	210	1001
	2.40	76.62	20.98	100.00

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

TABLE 44

INTER-HOSPITAL TRANFER OF INFANTS LIVE BIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

MULTIPLE BIRTHS

INFANT TRANSFERS	LIVE BIRTHS	PERCENT LIVE BIRTHS	EARLY NEONATAL DEATHS	EARLY NEONATAL RATE
TRANSFERRED NOT TRANSFERRED NOT STATED	34 964 3	3.4 96.3 0.3	2 14 0	58.8 14.5 0.0
TOTAL	1001	100.0	16	16.0

Note: There were no domiciliary multiple births.

1993 SECTION D: PERINATAL OUTCOMES

PERINATAL OUTCOMES, 1993

PART 1: SINGLETON BIRTHS

TABLE 45

BIRTHWEIGHT - ALL SINGLETON BIRTHS LIVE BIRTHS, ANTE AND INTRAPARTUM STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993

SINGLETON BIRTHS

						<u>0</u>				
		PERCENT	PERCENT ANTEPARTUM	INTRAPARTUM		STILL	EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	LIVE	STILL	STILL	TON	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTHS	BIRTHS	BIRTHS	BIRTHS	STATED	RATE	DEATHS	RATE	RATE	PMR
500-749	29	0.1		9	9	395.8	23	793.1	875.0	860.5
750-999	47	0.1	9	4	ဖ	298.5	15	319.1	522.4	475.4
1000-1249	71	0.1	17		ဖ	252.6	8	112.7	336.8	267.4
1250-1499	84	0.2	14	Ο.	ო	184.5	Ŋ	59.5	233.0	177.1
1500-1999	337	0.7	15	ιΩ	9	71.6	15	44.5	112.9	66.7
2000-2499	1061	2.2	21	ω	4	30.2	18	17.0	46.6	58.0
2500-2999	5183	10.8	34	ω	9	9.2	10	1.9	7.7	8.8
3000-3499	15423	32.1	21	· 0 .	Ŋ	2.3	15	1.0	3.3	2.3
3500-3999	17069	35.5	16		2	1.7	12	0.7	2.4	2.0
4000-4499	7137	14.9	4	N	က	1.	Ŋ	0.7	2.0	1.3
4500 AND OVER	1553	3.2	T	4	,	3.8	Ø	1.3	5.1	4.5
NOT STATED	99	0.1	0	0	ო	76.9	ო	83.3	153.8	83.3
TOTAL	48030	100.0	160	61	51	5.6	131	2.7	8.3	6.1

TABLE 46

ş

STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES BY CAUSE OF DEATH, 1993

SINGLETON BIRTHS

			i	200) (
			STILL	EARLY	EARLY		PERINAIAL
		STILL	BIRTH	NEONATAL	NEONATAL	TOTAL	MORTALITY
CAUSE OF DEATH		BIRTHS	RATE	DEATHS	RATE	DEATHS	RATE
CONGENITAL ANOMALIES							
ANENCEPHALUS		æ	0.17	13	0.27	23	0.43
SPINA BIFIDA	•	ιΩ	0.10	,	0.02	ဖ	0.12
OTHER CENTRAL NERVOUS SYSTEM ANOMALIES		7	0.04	7	0.04	4	0.08
BULBUS CORDIS AND SEPTAL CLOSURE		2	0.04	•	0.02	က	0.06
OTHER CONGENITAL ANOMALIES OF HEART			0.02	o o	0.19	유	0.21
CONGENITAL ANOMALIES OF RESPIRATORY SYSTE		0	0.00	80	0.17	∞	0.17
CONGENITAL ANOMALIES OF URINARY SYSTEM		က	0.06	13	0.27	9	0.33
754-756 CONGENITAL ANOMALIES OF MUSCULOSKELETAL SYSTEM	rstem	4	0.08	80	0.17	57	0.25
	NDROME	£	0.23	ო	90:0	4	0.29
OTHER CONGENITAL ANOMALIES		œ	0.17	7	0.15	15	0.31
MATERNAL CONDITIONS AND COMPLICATIONS IN PREGNANCY	REGNANCY						
MATERNAL HYPERTENSIVE DISORDERS	•	Ħ	0.23	က	90:0	<u>4</u>	0.29
	*****	4	90.0	2	0.04	ဖ	0.12
	川	엃	99.0	4	90:0	တ္တ	0.75
762.2 OTHER MORPHOLOGICAL AND FUNCTIONAL ABNOF	MALITIES						
		28	0.58	4	0.08	83	99.0
OTHER COMPRESSION OF UMBILICAL CORD		13	0.27	0	0.00	55	0.27
762.6-762.9 OTHER COMPLICATIONS OF PLACENTA, CORD & MEMBRANES	WBRANES	2	0.04	0	0.00	۲۵	0.04
		2	0.04	7	0.04	4	0.08

TABLE 46 - continued

STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES BY CAUSE OF DEATH, 1993

SINGLETON BIRTHS

	PERINATAL MORTALITY	RATE		90.0	ć ć	0.52		0.04	0.95	0.12	0.10			0.12	0.04	90.0	010	2		0.93	0.52	0.21	8.34	
	TOTA	DEATHS		က		8		N	46	9	ιΩ			9	2	33	d	5 0		45	ĸ	9	403	
	EABLY	RATE		0.00		0.27		0.02	0.10	0.12	0.10			0.08	0.04	. 0.02	0,0			00.0	0.04	0.15	2.73	
	EARLY	DEATHS		0		ಕ್		y -	Ŋ	9	rc.)		4	2	•	· [0	2		133	
•	STILL	BATE		90.0		0.25		0.02	183	0.00	000	3		0.04	00.0	70.0	5 6	0.08		0.93	0.48	90.0	5.63	
		SILL		က		12		+	. 14	: C	» c	>		6	ı c		J	4		5	23	က	272	
***SINGLETON BIRTHS.		CAUSE OF DEATH	SLOW FETAL GROWTH, FETAL MALNUTRITION AND IMMATURITY	SLOW FETAL GROWTH & FETAL MALNUTRITION	SHORT GESTATION AND UNSPECIFIED LOW BIRTHWEIGHT	DISORDERS	RIBTH TRAIIMA	BIRTH TBAILMA	INTERLITERINE HVDOXIA AND RIBTH ASPHYXIA	BESPIEATORY DISTRESS SYNDROME	DECEMBATORY CONDITIONS OF FETTIS OF NEWDORN	אותטפאיבאו הט פטובד דט פאיטו ונטאיסט זהטואהוימיםה	OTHER FETAL AND NEONATAL CONDITIONS	INFECTIONS SPECIFIC TO PERINATAL PERIOD	FETAL AND NEONATAL HAFMORRHAGE	METABOLIC AND ENDOCUME DICTIDOANIOES	METABOLIC AND ENDOCHINE DIGITORANCES	INTEGUMENT AND TEMPERATURE REGULATION CONDITIONS	MACERATION, ILL-DEFINED CONDITIONS AND ALL OTHER CAUSES	MACERATION		ALL OTHER CAUSES	TOTAL	
		CODES		764	765				768					771	: : : :::	3: 1	677	778		6622	780-796 799	e de la companya de l		

₹ .

TABLE 47

CAUSE OF DEATH BY BIRTHWEIGHT, NUMBERS AND RATES, 1993

SINGLETON BIRTHS

						_				
					OTHER CENTRAL NERVOUS SYSTEMS	ENTRAL SYSTEMS	CONGENITAL ANOMALIES OF	IITAL SS OF	CHROMOSOMAI	SOMAL
i i	ANENCEPHALUS	PHALUS	SPINA BIFIDA	IFIDA	ABNORM	MALITIES	THE HEARI	ART	ANOMALIES	ALIES
(GRAMMES)	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	က	62.5	0	0.0	0	0.0	0	0.0	+	20.8
750-999		14.9	Y-	14.9	0	0.0		14.9	۲۵	29.9
1000-1249	ო	31.6	γ ⊶	10.5	0	0.0	0	0.0	 -	10.5
1250-1499	0	0.0	0	0.0	0	0.0		9.7	ო	29.1
1500-1999	4	11.0	Ø	5.5	0	0.0	-	2.8	ผ	5.5
2000-2499	ഹ	4.6	1 —	6.0	•	0.9	-	6.0	8	~
2500-2999	0	0.4	0	0.0	0	0.0	01	0.4	-	0.2
3000-3499	0	0.1	T	0.1	T	0.1	ო	0.2	y	0.1
3500-3999	0	0.0	0	0.0	-	0.1	က	0.2	0	0.0
4000-4499		0.1	0	0.0	0	0.0	_	0.1	0	0.0
4500 AND OVER	0	0.0	0	0.0	-	9.0	0	0.0	0	0.0
NOT STATED	0	0.0	0	0.0	0	0.0	0	0.0	,	25.6
TOTAL	21	0.4	9	1.0	4	0.1	13	6.0	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, 1993

SINGLETON BIRTHS

				F F	SINGLEIC	***SINGLETON BIRTHS	2					
	OTHER CONGENITAL ANOMALIES	IER SNITAL ALIES	MATERNAL	NAL ATIONS	PLAC CO MEMBI	PLACENTA, CORD, MEMBRANES	OTHER COMPLICATIONS OF LABOUR	FR VTIONS OUR	SLOW FETAI GROWTH	ETAL TH	BIRTH TRAUMA	UMA
BIRTHWEIGHT										1		DATE
(GRAMMES)	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	HAIE	NOMBER	יואני י
500-749	-	20.8	3	62.5	6	187.5	-	20.8	4	291.7	0	0.0
750-999	· -	14.9	~	666		104.5	1-1	14.9	ഹ	74.6	0	0.0
1000-1249	- 4	42.1	l (7)	31.6	. 10	52.6	0	0.0	Ŋ	21.1	0	0.0
1250-1499	· (1)	, oc) T	2 6	· (c	58.3	0	0.0	8	19.4	0	0.0
1500-1999	ο σ	24.8	. ო	83	^	19.3	0	0.0	2	5.5	0	0.0
2000-2499	, ±	101	,	60	· F	10.1	- -	0.9	γ-	6.0	0	0.0
2500-2999	: ^	-	· 07	9 0	. 6.	2.5	 	0.2	S	0.4	0	0.0
3000-3499	. ^	יי ב) ,) C	, L	1.0	0	0.0	0	0.0	0	0.0
3500-3999	- er	0 0	- 67	0.0	<u> </u>	0.4	0	0.0	0	0.0	0	0.0
4000-4499) m	0 4	0	0.0	. ~	0.3	0	0.0	0	0.0	0	0.0
4500 AND OVER	0	0.0	0	0.0	· -	0.6	0	0.0	0	0.0	-	9.0
NOT STATED	~ ~	51.3	0	0.0	0	0.0	0	0.0	0	0.0	-	25.6
TOTAL	51	-	8	0.4	83	1.7	4	0.1	28	9.0	2	0.0
Alter Con Annualis C for a list of the Informational Classification of Diseases codes corresponding to each cause of death.	Year a list of	the Intern	ational Class	i sification of	Disposes	odos corres	nonding to ea	ch cause of	death.			

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

TABLE 47 - continued

CAUSE OF DEATH BY BIRTHWEIGHT, NUMBERS AND RATES, 1993

SINGLETON BIRTHS

			¥	*SINGLE	***SINGLETON BIRTHS***	S***				1
							METABOLIC,	OLIC,	INTEGUMENT	ENT,
			PERINATAI	4TAL	FETAL/NEONATA	ONATAL	ENDOCRINE	HINE	TEMPERATURE	lure Ture
	HYPOXI	HYPOXIA/ANOXIA	INFECTIONS	SNOI	HAEMOR	RHAGE	DISTURBANCES	ANCES	REGULATION	NOL
BIRTHWEIGHT (GRAMMES)	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	5	104.2	0	0.0	0	0.0	1	20.8	0	0.0
750-999	Ŋ	74.6	0	0.0	N	29.9	0	0.0	-	14.9
1000-1249	ო	31.6	-	10.5	0	0.0	0	0.0	0	0.0
1250-1499	ო	29.1	0	0.0	0	0.0	0	0.0	_	9.7
1500-1999	ιΩ	13.8	0	0.0	0	0.0	0	0.0	0	0.0
2000-2499	ო	2.7	T	6.0	0	0.0	_	6.0	ო	2.7
2500-2999	<u>ნ</u>	2.5	-	0.2	0	0.0	0	0.0	0	0.0
3000-3499	ဖ	0.4	,-	0.1	0	0.0	0	0.0	*	0.0
3500-3999	රා	0.5	_	0.1	0	0.0	0	0.0	T	0.1
4000-4499	7	0.3	0	0.0	0	0.0	0	0.0	N	0.3
4500 AND OVER		9.0	-	9.0	0	0.0		9.0	0	0.0
NOT STATED	7	51.3	o	0.0	0	0.0	0	0.0	0	0.0
TOTAL	57	1.2	9	0.1	2	0.0	က	0.1	6	0.2
]					

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, 1993

SINGLETON BIRTHS

			SINGLETON BIRTH	ON BIRTHS				
			SYMPTOMS, ILL-DEFINE	ILL-DEFINED			ALL CAUSES OF	ES OF
	MACE	MACERATION	COND	CONDITIONS	ALL OTHE	ALL OTHER CAUSES	PERINATAL MORTALITY	ORTALITY
BIRTHWEIGHT								
(GRAMMES)	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE	NUMBER	RATE
500-749	2	41.7	2	41.7	0	0.0	42	875.0
750-999	4	59.7	,	14.9	_	14.9	32	522.4
1000-1249	ഹ	52.6	က	31.6	-	10.5	35	336.8
1250-1499	4	38.8	0	0.0	0	0.0	24	233.0
1500-1999	4	11.0	0	0.0	Ø	5.5	41	112.9
2000-2499	ო	2.7	N	1.8	ო	2.7	51	46.6
2500-2999	6	1.7	ო	9.0	₹	0.2	58	-
3000-3499	9	0.4	Ю	0.3	₩	0.1	5	3.3
3500-3999	ഗ	0.3	89	0.5	0	0.0	41	2.4
4000-4499	-	0.1	 -	0.1	₹~	0.1	4	2.0
4500 AND OVER	2	ا .	0	0.0	0	0.0	8	5.1
NOT STATED	0	0.0	0	0.0	0	0.0	9	153.8
TOTAL	45	0.9	25	0.5	10	0.2	403	8.3
						440047		

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

AGE AT DEATH EARLY NEONATAL DEATHS, 1993

TABLE 48

SINGLETON BIRTHS

	EDECLIPATOR	
TIME	FREQUENCY	PERCENT
HOURS 1	42	32.1
2	11	8.4
3	5	3.8
4	8	6.1
5	4	3.1
6	2	1.5
7	1	0.8
9	1	0.8
10	3	2.3
11	5	3.8
13	1	0.8
14	4	3.1
15	2	1.5
17	1	0.8
18	1	0.8
19	2	1.5
20	1	0.8
22	1	0.8
TOTAL UNDER 1 DAY	95	72.5
DAYS 1	12	9.2
2	9	6.9
3	4	3.1
4	9	6.9
5	1	0.8
6	1	8.0
TOTAL	36	27.5
GRAND TOTAL	131	100.0

PERCENTAGE DISTRIBUTION OF LIVE BIRTHS
BY INFANT'S LENGTH OF STAY IN HOSPITAL, 1993

SINGLETON BIRTHS

	·	
INFANT'S LENGTH OF STAY(DAYS)	LIVE BIRTHS	PERCENT LIVE BIRTHS
0-2	4413	9.2
3-5	34878	73.0
6-10	6978	14.6
11-28	825	1.7
29 OR MORE	232	0.5
NOT STATED	431	0.9
TOTAL	47757	100.0

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

TABLE 50

PERCENTAGE OF STILLBIRTHS AND EARLY NEONATAL DEATHS
UNDERGOING POSTMORTEMS, 1993

SINGLETON BIRTHS

POSTMORTEM	Т	YPE OF DEATH	
FREQUENCY ROW PERCENT COL PERCENT	EARLY NEONATAL DEATHS	STILL BIRTHS	TOTAL
POSTMORTEM	63 26.36 48.09	176 73.64 64.71	239 59.31
NO POSTMORTEM	34 34.69 25.95	64 65.31 23.53	98 24.32
NOT STATED	34 51.52 25.95	32 48.48 11.76	66 16.38
TOTAL	131 32.51	272 67.49	403 100.00

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

PERINATAL OUTCOMES, 1993

PART 2: MULTIPLE BIRTHS

TABLE 51

LIVE BIRTHS, ANTE AND INTRAPARTUM STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES, 1993 BIRTHWEIGHT - ALL MULTIPLE BIRTHS

				MULTIPLE BIRTHS	BIRTHS**	*				
			ANTEPARTUM	INTRAPARTUM	:	STILL	EARLY	EARLY	PERINATAL	
BIRTHWEIGHT	LIVE	PERCENT	STILL	STILL	PON	BIRTH	NEONATAL	NEONATAL	MORTALITY	ADJUSTED
(GRAMMES)	BIRTHS	LIVE BIRTHS	BIRTHS	BIFTHS	STATED	RATE	DEATHS	RATE	RATE	PMR
500-749	6	6.0	-	0	0	100.0		8.777	800.0	800.0
750-999	6	6.0	က	0	0	250.0	ო	333.3	200.0	400.0
1000-1249	83	2.2	0	\-	-	83.3	0	0.0	83.3	43.5
1250-1499	23	2.3	,	0	-	80.0	_	43.5	120.0	83.3
1500-1999	122	12.2		0	0	8.1	0	0.0	8.1	8.1
2000-2499	236	23.6	0	0	T	4.2	0	0.0	4.2	0.0
2500-2999	348	34.8	-	0	0	2.9	-	2.9	5.7	2.9
3000-3499	191	19.1	0	0	0	0.0	T	5.2	5.2	0.0
3500-3999	32	3.2	0	0	0	0.0	0	0.0	0.0	0.0
4000-4499	သ	0.5	0	0	0	0.0	0	0.0	0.0	0.0
NOT STATED	4	0.4	0	0	0	0.0	3	750.0	750.0	500.0
TOTAL	1001	100.0		-	3	10.9	16	16.0	26.7	17.9

TABLE 52

CAUSE OF DEATH STILLBIRTHS, EARLY NEONATAL DEATHS AND MORTALITY RATES BY CAUSE OF DEATH, 1993

MULTIPLE BIRTHS

	MUCHIPLE BIRIES	^				
		STILL	EABLY	EARLY		PERINATAL
	STILL	BIRTH	NEONATAL	NEONATAL	TOTAL	MORTALITY
CAUSE OF DEATH	BIRTHS	RATE	DEATHS	RATE	DEATHS	RATE
ANENCEPHALUS	2	1.98	+	1.00	ო	2.96
OTHER CONGENITAL ANOMALIES	ო	2.96	ო	3.00	9	5.93
MATERNAL CONDITIONS AND COMPLICATIONS		0.99	·-	1.00	7	1.98
COMPLICATIONS OF PLACENTA, CORD AND MEMBRANES	-	0.99	2	2.00	ო	2.96
SLOW FETAL GROWTH, MALNUTRITION AND IMMATURITY	-	0.99	80	7.99	თ	8.89
INTRAUTERINE HYPOXIA, BIRTH ASPHYXIA AND OTHER						
RESPIRATORY CONDITIONS OF FETUS OR NEWBORN	٠	0.99	0	0.00	T-"	0.99
MACERATION	2	1.98	0	0.00	Ø	1.98
ALL OTHER CAUSES	0	0.00	+	1.00	T-	0.99
TOTAL	£	10.87	16	15.98	27	26.68

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

TABLE 53

CAUSE OF DEATH BY BIRTHWEIGHT AND CAUSE, 1993

MULTIPLE BIRTHS

		∑ *	***MULTIPLE BIRTHS***	BIRTHS"	×					
				BIRTH	BIRTHWEIGHT (GRAMMES)	SRAMME	S)			
CALISE OF DEATH	500-749	750-999	1000-1249 1250-14	1250-1499	1500-1999	2000-2499 2500-2999	2500-2999	3000-3499	NOT STATED	TOTAL
			2				•			ç,
ANENCEPHALUS)	N	5	>	>	-	_	>	>	ဂ
OTHER CONGENITAL ANOMALIES	0	0		-	0	-	0	-	N.	9
MATERNAL COMPLICATIONS	0	0		0	0	0	0	0		Ø
COMPLICATIONS OF PLACENTA,	0	0	0		0	0	0	0	0	ო
SLOW FETAL GROWTH, MALNUTRITION AND IMMATURITY	4	ო	0	T	₩.	0	0	0	0	თ
INTRAUTERINE HYPOXIA, BIRTH ASPHYXIA AND OTHER RESPIRATORY CONDITIONS OF FETUS OR NEWBORN	0	0	0	0	0	0	•	0	0	
MACERATION	1-	·	0	0	0	0	0	0	0	Ø
ALL OTHER CAUSES	-	0	0	0	0	0	0	0	0	₹
TOTAL	80	9	2	3	T-	,	2	+	သ	27
Meter See Appendix C for a list of the International Classification of Diseases on	Sational Cl	accificatio	n of Disea	apor sosi	des corresponding to each cause of death	nding to e	ach cause	a of death		

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

TABLE 54

AGE AT DEATH EARLY NEONATAL DEATHS, 1993

MULTIPLE BIRTHS

TIME	FREQUENCY	PERCENT
HOURS 1	4	25.0
2	3	18.8
3	1	6.3
4	2	12.5
12	1	6.3
TOTAL UNDER 1 DAY	11	68.8
2	1	6.3
3	1 '	6.3
4	1	6.3
5	1	6.3
6	1	6.3
GRAND TOTAL	16	100.0

TABLE 55

PERCENTAGE DISTRIBUTION OF LIVE BIRTHS BY INFANT'S LENGTH OF STAY IN HOSPITAL, 1993

MULTIPLE BIRTHS

	<u> </u>
LIVE	PERCENT
BIRTHS	LIVE BIRTHS
29	2,9
304	30.9
309	31.4
185	18.8
58	5.9
100	10.2
985	100.0
	BIRTHS 29 304 309 185 58 100

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

TABLE 56

PERCENTAGE OF STILLBIRTHS AND EARLY NEONATAL DEATHS UNDERGOING POSTMORTEMS, 1993

MULTIPLE BIRTHS

POSTMORTEM		TYPE OF DEATH	
FREQUENCY	EARLY		
ROW PERCENT	NEONATAL	STILL	
COL PERCENT	DEATHS	BIRTHS	TOTAL
POSTMORTEM	11	6	17
	64.71	35.29	
	68.75	54.55	62.96
NO POSTMORTEM	3	4	7
	42.86	57.14	:
	18.75	36.36	25.93
NOT STATED	2	1	3
	66.67	33.33	
	12.50	9.09	11.11
Total	16	11	27
	59.26	40.74	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-

To: The Planning Unit, Department	t of Health, Hawkins House, Dublin 2. 12 L
	NAME AND
LIVE BIRTH HOSPITAL C	ADDRESS OF
LATE FETAL DEATH 2 No. 3	HOSPITAL
INFANT	2 DUPLICATE 2-11 FROM CARD 1
DATE OF BIRTH 12	MOTHER'S HEALTH
IF MULTIPLE BIRTH	
ORDER OF BIRTH No. LIN WL. 19	ANTE NATAL CARE THIS PREGNANCY (Hosp./Obstst. = 1, G.P. Only = 2, Combined = 3, None = 4)
TIME OF BIRTH	DATE OF FIRST VISIT TO DOCTOR
	DURING PREGNANCY 13
SEX (Male = 1, Female = 2, Indeterminate = 3)	DATE OF FIRST VISIT TO HOSPITAL
BIRTH WEIGHT 24 GRAMMES	DURING PREGNANCY
PERIOD OF GESTATION 20 WEEKS	WAS MOTHER IMMUNE TO RUBELLA (Yee = 1, No = 2,
FATHER	Unknown = 3) #
	METHOD OF DELIVERY (Sponteneous = 1, Breech±Forcepe = 2,
	Forcepe = 3, Vec. Extraction = 4, Celevreen Sec. = 5, Other = 6)
COUNTY:	MAIN MATERNAL DISEASE OR CONDITION AFFECTING FETUS OR INFANT
OCCUPATION 28	
MOTHER	OTHER MATERNAL DISEASE OR CONDITION AFFECTING FETUS OR INFANT
	INFANT'S HEALTH
	TYPE OF FEEDING (Artificial = 1, Breast = 2)
COUNTY: 31L	WAS BCG ADMINISTERED (Yes = 1, No = 2)
DATE OF BIRTH	
MARITAL STATUS (Merried = 1, Single = 2, Widowed = 3, Separated = 4, Divorced = 5) se	MAIN DISEASE OR CONGENITAL MALFORMATION AFFECTING INFANT
DATE OF MARRIAGE	
DATE OF LAST BIRTH	
NO. OF PREVIOUS LIVE BIRTHS	
NO, OF PREVIOUS CHILDREN STILL LIVING	OTHER DISEASES OF CONGENITAL MALFORMATIONS AFFECTING
NO. OF PREVIOUS LATE FETAL DEATHS	INFANT
NO. OF PREVIOUS ABORTIONS	
PERINATAL DEATH	41
TYPE OF DEATH (Early Neonetal = 1, Late Fatal = 2) so	HOSPITAL
WAS AUTOPSY PERFORMED (Yes = 1, No = 2) 41 41	WAS ADMISSION BOOKED (Yes = 1, No = 2)
AGE AT DEATH SELL HOURS	DATE OF MOTHER'S ADMISSION
PLACE OF DEATH	DATE OF MOTHER'S DISCHARGE
IF LFD, DID DEATH OCCUR BEFORE LABOUR (1) DURING LABOUR (2)	DATE OF INFANT'S DISCHARGE
NOT KNOWN (3)	
CAUGE OF DEATH	WAS INFANT TRANSFERRED TO OTHER HOSPITAL FOR MEDICAL REASONS (Yes=1, No=2)
MAIN DISEASE OF CONDITION IN FETUS OF INFANT	IF 'YES', NAME OF HOSPITAL
<u></u>	· · · · · · · · · · · · · · · · · · ·
OTHER DISEASES OR CONDITIONS IN FETUS OR INFANT	
MAIN MATERNAL DISEASE OF CONDITION AFFECTING FETUS OR INFANT	
OTHER MATERNAL DISEASE OF CONDITION AFFECTING FETUS OR INFANT	
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2) Part 2 of the Domiciliary Notification Form.

NOTIFICATION OF BIR	THTo: The Registrar of Births
LIVE BIRTH DOMICILIARY LATE FETAL DEATH LATE FETAL DEATH	ADDRESS
TATE FETAL DEATH	OCCURRED
INFANT DATE OF BIRTH: IF MULTIPLE BIRTH ORDER OF BIRTH No. 19 of TIME OF BIRTH: NAME SEX: (Male = 1, Female = 2, Indeterminate = 3) BIRTH WEIGHT: PERIOD OF GESTATION 26	CONFIDENTIAL — This form is required for registration and statistical purposes and will be treated as strictly considential. 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.
COUNTY 28 COUNTY 32 MOTHER NAME, SURNAME MAIDEN SURNAME ADDRESS COUNTY COUNTY DATE OF BIRTH: 38 MARITAL STATUS (Married = 1, Single = 2,	THIS SECTION TO BE COMPLETED BY THE REGISTRAN OF BIRTHS ONLY DATE OF REGISTRATION B2 ENTRY NO. IN REGISTER 84
Widowed = 3, Separated = 4, Divorced = 6) DATE OF MARRIAGE DATE OF LAST BIRTH: NO. OF PREVIOUS LIVE BIRTHS NO. OF PREVIOUS CHILDREN STILL LIVING NO. OF PREVIOUS LATE FETAL DEATHS NO, OF PREVIOUS ABORTIONS 63 FOR OFFICIAL USE ONLY	REGISTRAR'S STAMP
67 DAYS 68HOU 70 73	SIGNATURE OF REGISTRAR OF BIRTHS The Registrer should check that this return pertains to a live birth,
74	
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
UNSKILLED MANUAL WORKERS
UNSKILLED MANUAL WORKERS
UNEMPLOYED
NOT CLASSIFIABLE
NOT APPLICABLE

A variable for mother's occupation has been incorporated onto the revised birth notification form which is to be used from 1 January 1998.

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:

- 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.

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:

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ICD CODES	CAUSE OF DEATH
740	Anencephalus and similar anomalies
741	Spina biflda
742	Other congenital anomalies of nervous system
745-747	Congenital anomalies of heart
758	Chromosomal anomalies (including Down's syndrome)
743-744	Other congenital anomalles
748-757,759	
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 Isolmmunisation
775	Endocrine and metabolic disturbances specific to the felus 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: 1993

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.

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TABLE 1
AGE OF MOTHER BY MATERNAL PARITY, 1993
SINGLETON BIRTHS

AGE OF MOTHER					MATERNAL	VAL PARITY				
FREQUENCY ROW PERCENT COL PERCENT	NOT	0	-	2	က	4	ıc	9	MORE THAN 6	TOTAL
UNDER 15	0.00.0	12 100.00 0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12 0.02
15-19	0.74 14.18	2293 89.12 13.39	235 9.13 1.67	24 0.93 0.28	0.08 0.04	0.00	0.00	0000	0.00	2573 5.33
20-24	24 0.33 17.91	4330 58.88 25.29	2180 29.64 15.47	634 8.62 7.42	1.93 3.19	37 0.50 1.94	4 0.05 0.42	0.03 0.42	0.01 0.16	7354 15.23
<u>25-29</u>	34 0.24 25.37	5771 40.50 33.70	4855 34.07 34.46	2215 15.54 25.92	896 6.29 20.16	319 2.24 16.68	106 0.74 11.16	22 0.15 4.57	31 0.22 5.00	14249 29.50
30-34	35 0.23 26.12	3663 23.93 21.39	5038 32.91 35.76	3664 23.93 42.87	1712 11.18 38.52	619 4.04 32.37	297 1.94 31.26	144 0.94 29.94	137 0.89 22.10	15309 31.69
35-39	0.17 8.96	889 12.58 5.19	1532 21.68 10.87	1736 24.56 20.31	1415 20.02 31.83	686 9.71 35.88	340 4.81 35.79	196 2.77 40.75	261 3.69 42.10	7067
40-44	0.38 4.48	137 8.57 0.80	235 14.71 1.67	265 16.58 3.10	256 16.02 5.76	241 15.08 12.60	187 11.70 19.68	105 6.57 21.83	166 10.39 26.77	1598 3.31
45 AND OVER	0.00	8 8.70 0.05	3 3.26 0.02	6.52 0.07	17 18.48 0.38	9 9.78 0.47	15 16.30 1.58	12 13.04 2.49	23.91 3.55	92 0.19
NOT STATED	8.33 2.99	20 41.67 0.12	12 25.00 0.09	3 6.25 0.04	5 10.42 0.11	1 2.08 0.05	2.08 0.11	0.00	2 4.17 0.32	0.10
TOTAL	134	17123 35.45	14090 29.17	17.69	9.20	1912 3.96	950	1.00	1.28	100.00

TABLE 2

METHOD OF DELIVERY BY MATERNAL PARITY, 1993

			5							
METHOD OF DELIVERY	 				MATERN	MATERNAL PARITY		i		
FREQENCY					<u></u>	·				
ROW PERCENT	TON								MORE	
COL PERCENT	STATED	0	-	2	က	4	ស	9	THAN 6	TOTAL
SPONTANEOUS	83	9831	11021	7047	3761	1585	795	401	486	35010
	0.24	28.08	31.48	20.13	10.74	4.53	2.27	1.15	1.39	
	61.94	57.41	78.22	82.45	84.61	82.90	83.68	83.37	78.39	72.48
BRFFCH/FORCEPS	m	331	168	87	20	33	16	2		902
	0.42	46.88	23.80	12.32	7.08	4.67	2.27	0.99	1.56	
ſ	2.24	1.93	1.19	1.02	1.12	1.73	1.68	1.46	1.77	1.46
FORCEPS	18	2713	995	208	0,	33	12	5	œ	3727
) i)	0.48	72.79	17.76	5.58	1.88	0.83	0.32	0.13	0.21	
	13.43	15.84	4.70	2.43	1.57	1.62	1.26	1.04	1.29	7.72
VACUUM	8	1475	577	244	117	51	30	12	7	2528
EXTRACTION	0.32	58.35	22.82	9.65	4.63	2.02	1.19	0.47	0.55	
	2.97	8.61	4.10	2.85	2.63	2.67	3.16	2.49	2.26	5.23
CAESAREAN	19	2672	1566	868	425	200	96	54	26	6027
	0.32	44.33	25.98	14.90	7.05	3.32	1.59	0.90	1.61	
	14.18	15.60	#.#	10.51	9.56	10.46	10.11	11.23	15.65	12.48
OTHER.	က	101	96	63	22	12	1	7	4	304
UNSPECIFIED AND	0.99	33.22	31.58	20.72	7.24	3.95	0.33	99.0	1.32	
NOT STATED	2.24	0.59	0.68	0.74	0.49	0.63	0.11	0.42	0.65	0.63
TOTAL	134	17123	14090	8547	4445	1912	950	481	620	48302
	0.28	35.45	29.17	17.69	9.20	3.96	1.97	1.00	1.28	100.00
						İ		į		

TABLE 3

MARITAL STATUS BY AGE OF MOTHER, 1993

			İ							
MARITAL					AGE OF 1	OF MOTHER				
FREQUENCY				:	i					
ROW PERCENT	FON	UNDER							45 AND	
COL PERCENT	STATED	15	15-19	20-24	25-29	30-34	35-39	40-44	OVER	TOTAL
MARRIED	33	0	212	3440	12421	14373	6283	1482	84	38634
	0.09	00.00	0.55	8.90	32.15	37.20	17.05	3.84	0.22	
	68.75	0.00	8.24	46.78	87.17	93.89	93.24	92.74	91.30	79.98
SINGLE	7	12	2355	3855	1594	642	251	49	2	8771
	0.13	0.14	26.85	43.95	18.17	7.32	2.86	0.56	0.02	
84	22.92	100.00	91.53	52.42	11.19	4.19	3.55	3.07	2.17	18.16
SEPARATED	-	0	-	53	213	277	201	9	5	816
	0.12	0.00	0.12	6.50	26.10	33.95	24.63	7.97	0.61	
	2.08	0.00	0.04	0.72	1.49	1.81	2.84	4.07	5.43	1.69
DIVORCED	0	0	+	,-	14	14	50	2	τ-	53
	0.00	0.00	1.89	1.89	26.42	26.42	37.74	3.77	1.89	
	0.00	00.00	0.04	0.01	0.10	0.09	0.28	0.13	1.09	0.11
NOT STATED	m	0	4	ເດ	7	ဧ	9	0	0	58
	10.71	0.00	14.29	17.86	25.00	10.71	21.43	0.00	0.00	
	6.25	0.00	0.16	0.07	0.05	0.02	0.08	0.00	0.00	0.06
TOTAL	48	12	2573	7354	14249	15309	2902	1598	92	48302
	0.10	0.02	5.33	15.23	29.50	31.69	14.63	3.31	0.19	100.00
								:		

TABLE 4
GESTATION PERIOD AT DELIVERY BY MATERNAL PARITY, 1993

GESTATION PERIOD (WEEKS) FREQUENCY NOT ROW PERCENT STATED COL PERCENT 0 LESS THAN 22 0.00 22-27 3.13 22-27 3.13 22-36 0.38 32-36 0.42 37-41 0.26 82.84 11 42 AND OVER 0.26 NOT STATED 0.00 0.00 0.00 TOTAL 134 134 0.28				NIS***	GLETON	***SINGLETON BIRTHS***			ļ		!
UENCY PERCENT NOT STATED 0 1 2 3 4 5 6 TH- THAN 22 THAN 22 0.00 <t< td=""><td>GESTATION PERIOD (WEEKS)</td><td></td><td></td><td></td><td></td><td>MATERN</td><td>IL PARITY</td><td>:</td><td></td><td>į</td><td></td></t<>	GESTATION PERIOD (WEEKS)					MATERN	IL PARITY	:		į	
COLTING No. COLTING No.	FREQUENCY ROW PERCENT	NOT	0	-	5	8	4	rv	မ	MORE THAN 6	TOTAL
22-27 3 53 17 11 4 3.13 1 3 28-31 3.13 5521 17.71 11.46 4.17 3.13 1.04 3.13 28-31 1 1 113 68 39 18 10 8 3.13 28-31 0.38 42.48 25.56 14.66 6.77 3.76 3.01 1.13 32-36 0.75 0.66 0.48 0.46 0.40 0.52 0.84 0.62 32-36 0.75 0.66 0.48 0.46 0.40 0.52 0.84 0.62 32-36 0.75 0.42 42.07 23.64 15.50 8.14 4.67 1.68 1.68 32-36 0.42 42.07 23.64 15.50 8.14 4.67 1.68 1.68 37-41 111 14533 12602 7658 39.64 1694 87.66 87.66 87.66 89.60 87.66	LESS THAN 22	0.00	60.00 0.02	20.00	0.00	20.00 0.02	0.00	0.00	0.00	0.00	5.0.01
28-31 1 113 68 39 18 10 8 3 28-31 0.38 42.48 25.56 14.66 6.77 3.76 3.01 1.13 1.13 32-36 0.75 0.66 0.48 0.46 0.40 0.52 0.84 0.62 28 32-36 0.42 42.07 23.64 15.50 8.14 4.67 1.68 1.68 1.68 32-36 0.42 42.07 23.64 15.50 8.14 4.67 1.68	22-27	3.13	53 55.21 0.31	17.71 0.12	11.46 0.13	4 4.17 0.09	3.13 0.16	1.04	3.13 0.62	1 1.04 0.16	96
Total Coverage Tota		0.38	113 42.48 0.66	68 25.56 0.48	39 14.66 0.46	18 6.77 0.40	10 3.76 0.52	3.01 0.84	3 1.13 0.62	6 2.26 0.97	266
111 14533 12602 7658 3984 1694 833 411 14533 12602 7658 3984 1694 833 411 14533 12602 18.09 9.41 4.00 1.97 0.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 1.97 0.97 0.97 1.97 1.90 0.00	32-36	0.42	703 42.07 4.11	395 23.64 2.80	259 15.50 3.03	136 8.14 3.06	78 4.67 4.08	28 1.68 2.95	28 1.68 5.82	37 2.21 5.97	3.46
12 1715 1007 577 301 127 80 36 0.31 43.79 25.72 14.73 7.69 3.24 2.04 0.92 8.96 10.02 7.15 6.75 6.75 6.77 6.64 8.42 7.48 0.00 3 0 3 1 0 0 0 0.00 42.86 0.00 42.86 14.29 0.00 0.00 0.00 0.00 0.02 0.03 0.04 0.02 0.00 0.00 0.00 134 17.123 14090 8547 4445 1912 950 481 0.28 35.45 29.17 17.69 9.20 3.96 1.97 1.00	37-41	0.26 82.84	14533 34.32 84.87	12602 29.76 89.44	7658 18.09 89.60	3984 9.41 89.63	1694 4.00 88.60	833 1.97 87.68	411 0.97 85.45	515 1.22 83.06	42341
0 3 1 0	42 AND OVER	0.31 8.96	1715 43.79 10.02	1007 25.72 7.15	577 14.73 6.75	301 7.69 6.77	127 3.24 6.64	80 2.04 8.42	36 0.92 7.48	61 1.56 9.84	3916
	NOT STATED	0.00	3 42.86 0.02	0.00	3 42.86 0.04	1 14.29 0.02	0.00	0.00	0.00	0.00	0.11
-	TOTAL	134	17123 35.45	14090 29.17	8547 17.69	9.20	1912 3.96	1.97	1.00	1.28	100.00

TABLE 5
AGE OF MOTHER BY GESTATION PERIOD AT DELIVERY, 1993
SINGLETON BIRTHS

			SINGLE I ON DIN INS	כיוורום				
AGE OF MOTHER			GE	GESTATION PE	PERIOD (WEEKS)	(6)		
FREQUENCY ROW PERCENT COL PERCENT	NOT	LESS THAN 22	22-27	28-31	32-36	37-41	42 AND OVER	TOTAL
UNDER 15	0	0	0	0	•	_	0	12
	00.00	0.00	0.00	00.0	8.33	91.67	0.00	
	0.00	00.00	00.0	0.00	90.0	0.03	0.00	0.02
15-19	0		-	59	132	2129	271	2573
	0.00	0.04	0.43	1.13	5.13	82.74	10.53	
	0.00	20.00	11.46	10.90	7.90	5.03	6.92	5.33
20-24	2	2	24	20	316	6236	724	7354
	0.03	0.03	0.33	0.68	4.30	84.80	9.84	
	28.57	40.00	25.00	18.80	18.91	14.73	18.49	15.23
25-29	2	0	23	83	461	12458	1242	14249
	0.01	0.00	0.16	0.44	3.24	87.43	8.72	
6	28.57	0.00	23.96	23.68	27.59	29.42	31.72	29.50
30-34	2	*	23	70	442	13619	1152	15309
	0.01	0.01	0.15	0.46	2.89	88.96	7.52	
	28.57	20.00	23.96	26.32	26.45	32.17	29.42	31.69
35-39	-	0	10	35	236	6364	421	2902
	0.01	0.00	0.14	0.50	3.34	90.05	5.96	
	14.29	0.00	10.42	13.16	14.12	15.03	10.75	14.63
40-44	0	-	က	16	76	1410	92	1598
	0.00	90.0	0.19	1.00	4.76	88.24	5.76	
	0.00	20.00	3.13	6.02	4.55	3.33	2.35	3.31
45 AND OVER	0	0	 →	က	9	77	5	35
	0.00	0.00	1.09	3.26	6.52	83.70	5.43	
	0.00	0.00	1.04	1.13	0.36	0.18	0.13	0.19
NOT STATED	0	0	T-	0	,	37	6	48
	0.00	0.00	5.08	0.00	2.08	77.08	18.75	
	0.00	0.00	1.04	0.00	0.06	0.09	0.23	0.10
TOTAL	0.01	5.01	96 0.20	266	1671 3.46	42341 87.66	3916 8.11	48302 100.00

TABLE 6

8.11 100.00

3.46 87.66

0.55

0.01 0.20

0.01

METHOD OF DELIVERY BY AGE OF MOTHER, 1993

				20		2					
, =-	METHOD OF DELIVERY	<u>i</u>	ļ			AGE OF	AGE OF MOTHER	ļ		ļ	
,		i									
	BOW PERCENT	TON	UNDER							45 AND	(
- 	CO. PERCENT	STATED	15	15-19	20-24	25-29	30-34	35-39	40-44	OVER	TOTAL
	COUNTANIEOLIS	37		1946	5629	10264	10936	5081	1045	65	35010
-		0.11	0.02	5.56	16.08	29.32	31.24	14.51	2.98	0.19	;
		77.08	58.33	75.63	76.54	72.03	71.44	71.90	62.39	70.65	72.48
	PDEECU/EODOEDS	c	0	40	108	228	212	94	23	T-	206
		0 0	000	5.67	15.30	32.29	30.03	13.31	3.26	0.14	
87		00.0	0.00	1.55	1.47	1.60	1.38	1.33	1.44	1.09	1.46
	3010001	,	m	238	534	1216	1215	431	83	ιĊ	3727
	פרוסהסר	1 5	0 0	6.39	14.33	32.63	32.60	11.56	2.23	0.13	
		4 17	25.00	9.25	7.26	8.53	7.94	6.10	5.19	5.43	7.72
			-	131	358	773	848	332	80	က	2528
	VACOUM	2 5	000	7. 2.	14.16	30.58	33.54	13.13	3.16	0.12	
	EXIMACION	. c.	0.00	5.09	4.87	5.42	5.54	4.70	5.01	3.26	5.23
				207	689	1687	2000	1067	355	18	6027
		1 E	0.03	3.43	11.43	27.99	33.18	17.70	5.89	0.30	
		4.17	16.67	8.05	9.37	11.84	13.06	15.10	22.22	19.57	12.48
	CATURE	4	C	=	98	8	86	62	12	0	304
	יהם ויס מואס תבוםוכובסטוניו	- 65	0.00	3.62	11.84	26.64	32.24	20.39	3.95	0.00	
	UNSPECIAL LED AND	8.33	0.00	0.43	0.49	0.57	0.64	0.88	0.75	0.00	0.63
	TOTA!	488	12	2573	7354	14249	15309	2902	1598	95	48302
	2	0.10	0.02	5.33	15.23	29.50	31.69	14.63	3.31	0.19	100.00
								i			

TABLE 7
BIRTHWEIGHT BY GESTATION PERIOD AT DELIVERY, 1993

		S	INGLET	ON BIRTI	HS	· · · · · · · · · · · · · · · · · · ·	- 6	
BIRTHWEIGHT (GRAMMES)			GES	STATION PE	RIOD (WE	EKS)	······································	
FREQUENCY COL PERCENT ROW 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 6.25 60.00	35 72.92 36.46	9 18.75 3.38	0.00 0.00	0 0.00 0.00	1 2.08 0.03	48 0.10
750-999	0 0.00 0.00	0 0.00 0.00	34 50.75 35.42	24 35.82 9.02	7 10.45 0.42	2 2.99 0.00	0 0.00 0.00	67 0.14
1000-1249	0 0.00 0.00	1 1.05 20.00	18 18.95 18.75	49 51.58 18.42	24 25.26 1,44	2 2.11 0.00	1 1.05 0.03	95 0.20
1250-1499	0 0.00 0.00	0.97 20.00	3 2.91 3 .13	58 56.31 21.80	34 33.01 2.03	7 6,80 0,02	0 0.00 0.00	103 0.21
1500-1999	0 0.00 0.00	0.00 0.00	3 0,83 3,13	76 20.94 28.57	205 56.47 12.27	72 19.83 0.17	7 1.93 0.18	363 0.75
2000-2499	0.00 0.00	0.00 0.00	3 0.27 3.13	14 1.28 5.26	444 40.59 26.57	617 56.40 1.46	16 1.46 0.41	1094 2.26
2500-2999	1 0.02 14,29	0.00 0.00	0 0.00 0.00	4 0.08 1.50	596 11.39 35.67	4452 85.11 10.51	178 3.40 4.55	5231 10.83
3000-3499	0.01 14.29	0.00 0.00	0.00 0.00	17 0.11 6.39	263 1.70 15.74	14224 92.01 33.59	954 6.17 24.36	15459 32.00
3500-3999	3 0.02 42.86	0.00 0.00	0.00 0.00	13 0.08 4.89	78 0.46 4.67	15483 90.55 36.57	1521 8.90 38.84	17098 35.40
4000-4499	1 0.01 14.29	0.00 0.00	0.00 0.00	2 0.03 0.75	14 0.20 0.84	6160 86.20 14.55	969 13.56 24.74	7146 14.79
4500 AND OVER	1 0.06 14 .29	0 0.00 0.00	0 0.00 0.00	0 0.00 0.00	5 0.32 0.30	1299 83.32 3.07	254 16.29 6.49	1559 3.23
NOT STATED	0.00 0.00	0.00 0.00	0.00 0.00	0 0.00 0.00	1 2.56 0.06	23 58,97 0.05	15 38.46 0.38	39 0.08
TOTAL	7 0.01	5 0.01	96 0.20	266 0.55	1671 3.46	42341 87.66	3916 8.11	48302 100.00

TABLE 8

METHOD OF DELIVERY BY MOTHER'S LENGTH OF STAY
IN HOSPITAL AFTER DELIVERY, 1993

							 -	·····
METHOD OF			naa	TALATAL E	ないてし ヘモ	QTAV		
DELIVERY	<u></u>		PUS	TNATAL LE	NG IN OF	JINI		***************************************
FREQUENCY			ļ				La MERICA	
ROW PERCENT	NOT	0-2	3-5	6-8	9-11	12-14	2 WEEKS	
COL PERCENT	STATED	DAYS	DAYS	DAYS	DAYS	DAYS	OR MORE	TOTAL
SPONTANEOUS	29	4160	29124	1382	107	36	51	34889
	0.08	11.92	83.48	3.96	0.31	0.10	0.15	
	48.33	88.57	80.89	22.80	9.76	27.91	45.54	72.44
BREECH/	0	84	557	51	6	3	3	704
FORCEPS	0.00	11.93	79.12	7.24	0.85	0.43	0.43	
	0.00	1.79	1.55	0.84	0.55	2.33	2.68	1.46
FORCEPS	1	235	3129	309	38	4	11	3727
• • • • • • • • • • • • • • • • • • • •	0.03	6.31	83.95	8.29	1.02	0.11	0,30	
	1.67	5.00	8.69	5.10	3.47	3.10	9.82	7.74
VACUUM	6	164	2041	269	35	8	5	2528
EXTRACTION	0.24	6.49	80.74	10.64	1.38	0.32	0.20	
	10.00	3.49	5.67	4.44	3.19	6.20	4.46	5.25
CAESAREAN	15	44	1058	3910	882	76	42	6027
	0.25	0.73	17.55	64.87	14.63	1.26	0.70	1
	25.00	0.94	2.94	64.50	80.47	58.91	37.50	12,51
OTHER,	9	10	95	141	28	2	0	285
UNSPECIFIED AND		3.51	33.33	49.47	9.82	0.70	0.00	-
NOT STATED	15.00	0.21	0.26	2.33	2.55	1.55	0.00	0.59
TOTAL	60	4697	36004	6062	1096	129	112	48160
	0.12	9.75	74.76	12.59	2.28	0.27	0.23	100.00
		1	I	-l				

Note: Domiciliary births of which there were 142 are excluded from this table.

TABLE 9

MATERNAL PARITY BY MOTHER'S LENGTH OF STAY
IN HOSPITAL AFTER DELIVERY, 1993

·····			11104	ON DITTI			<u></u>	
MATERNAL			DOOTH	ATAL E	OTH OF	074\/		
PARITY		· · · · · · · · · · · · · · · · · · ·	POSIN	AIAL LEN	IGTH OF	SIAY	<u> </u>	
FREQUENCY	N.O.		0.5		0.44	10 14	OWEERS	
ROW PERCENT		0.2	3-5	6-8	9-11	12-14	2 WEEKS	TOTAL
COL PERCENT	STATED	DAYS	DAYS	DAYS	DAYS	DAYS	OR MORE	TOTAL
0	22	747	12636	3056	524	62	39	17086
	0.13	4.37	73.96	17.89	3.07	0.36	0.23	
	36.67	15.90	35.10	50.41	47.81	48.06	34.82	35.48
1	20	1662	10636	1 3 92	278	19	30	14037
	0.14	11.84	75.77	9.92	1.98	0.14	0.21	
	33.33	35.38	29.54	22.96	25.36	14.73	26.79	29.15
2	8	1061	6473	805	133	26	15	8521
	0.09	12.45	75.97	9.45	1.56	0.31	0.18	
	13.33	22.59	17.98	13.28	12,14	20.16	13.39	17.69
3	2	638	3301	396	76	8	11	4432
	0.05	14.40	74.48	8.94	1.71	0.18	0.25	
	3,33	13.58	9.17	6.53	6.93	6.20	9.82	9.20
4	3	286	1391	177	36	8	6	1907
	0.16	15,00	72,94	9.28	1.89	0.42	0.31	
	5.00	6.09	3.86	2.92	3.28	6.20	5.36	3.96
5	2	140	688	92	19	1	5	947
•	0.21	14.78	72.65	9.71	2.01	0.11	0.53	
	3.33	2.98	1.91	1.52	1.73	0.78	4.46	1.97
6	0	58	359	48	11	2	2	480
	0.00	12.08	74.79	10.00	2.29	0.42	0.42	
	0.00	1.23	1.00	0.79	1.00	1.55	1.79	1.00
MORE THAN 6	0	98	424	73	15	3	4	617
	0.00	15.88	68.72	11.83	2.43	0.49	0.65	
	0.00	2.09	1.18	1.20	1.37	2.33	3.57	1.28
NOT STATED	3	7	96	23	4	0	0	133
	2.26	5.26	72.18	17.29	3.01	0.00	0.00	
	5.00	0.15	0.27	0.38	0.36	0.00	0.00	0.28
TOTAL	60	4697	36004	6062	1096	129	112	48160
!	0.12	9.75	74.76	12.59	2.28	0,27	0.23	100.00

Note: Domiciliary births of which there were 142 are excluded from this table.

TABLE 10 MARITAL STATUS BY GESTATION PERIOD AT TIME OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY, 1993

	***	SINGLETON B	IRTHS***		
MARITAL STATUS		TIME OF FI	RST VISIT (WE	EKS)	
FREQUENCY ROW PERCENT COL PERCENT MARRIED	NOT STATED 2386 6.18 87.02	0-12 21531 55.73 84.02	13-19 9620 24.90 78.59	20 AND OVER 5097 13.19 66.25	TOTAL 38634 79.98
SINGLE	313 3.57 11.42	3683 41.99 14.37	2392 27.27 19.54	2383 27.17 30.97	8771 18.16 816
SEPARATED	31 3.80 1.13	368 45.10 1.44	208 25.49 1.70	209 25.61 2.72	1.69
DIVORCED	3.77 0.07	35 66.04 0.14	12 22.64 0.10	7.55 0.05	0.11
NOT STATED	10 35.71 0.36	9 32.14 0.04	28.57 0.07	3.57 0.01	0.06
TOTAL	2742 5.68	25626 53.05	12240 25.34	7694 15.93	48302 100.00

TABLE 11
INTERVAL IN YEARS SINCE LAST BIRTH BY GESTATION PERIOD AT TIME
OF FIRST VISIT TO HOSPITAL OR DOCTOR DURING PREGNANCY, 1993

	<u> </u>			
	TIME OF	FIDET VISIT (M	EEK6/	
	TIME OF	FINOT VIOLE (W	LLINO)	
		i	30 VND	
	ا مده	10.10		TOTAL
				
		1		17123
5.48	ı		1	06.45
34.25	37.88	32.05		35.45
26	194	143	1	526
4.94	36.88	27.19	30.99	
0.95	0.76	1.17	2.12	1.09
429	3090	1962	1518	6999
6.13	44.15	28.03	21.69	
15.65	12.06	16.03	19.73	14.49
456	3978	2134	1189	7757
5.88	51,28	27.51	15.33	
16.63	15.52	17.43	15.45	16.06
291	2952	1439	756	5438
5.35	54.28	26.46	13.90	
10.61	11.52	11.76	9.83	11.26
168	1829	822	494	3313
5.07	55.21	24.81	14.91	
6.13	7.14	6.72	6.42	6.86
93	1213	533	277	2116
4.40	57.33	25.19	13.09	
3.39	4.73	4.35	3.60	4.38
208	2485	1187	663	4543
4.58	54.70	26.13	14.59	
7.59	9.70	9.70	8.62	9.41
132	178	97	80	487
27.10	36,55	19.92	16.43	
4.81	0.69	0.79	1.04	1.01
2742	25626	12240	7694	48302
5.68	53.05	25.34	15.93	100.00
	26 4.94 0.95 429 6.13 15.65 456 5.88 16.63 291 5.35 10.61 168 5.07 6.13 93 4.40 3.39 208 4.58 7.59 132 27.10 4.81	NOT STATED 0-12 939 9707 5.48 56.69 34.25 37.88 26 194 4.94 36.88 0.95 0.76 429 3090 6.13 44.15 15.65 12.06 456 3978 51.28 16.63 15.52 291 2952 5.35 54.28 10.61 11.52 168 1829 5.07 55.21 6.13 7.14 93 1213 4.40 57.33 3.39 4.73 208 2485 4.58 54.70 7.59 9.70 132 178 27.10 36.55 4.81 0.69	NOT STATED 0-12 13-19 939 9707 3923 5.48 56.69 22.91 34.25 37.88 32.05 26 194 143 4.94 36.88 27.19 0.95 0.76 1.17 429 3090 1962 6.13 44.15 28.03 15.65 12.06 16.03 456 3978 2134 5.88 51.28 27.51 16.63 15.52 17.43 291 2952 1439 5.35 54.28 26.46 10.61 11.52 11.76 168 1829 822 5.07 55.21 24.81 6.13 7.14 6.72 93 1213 533 4.40 57.33 25.19 3.39 4.73 4.35 208 2485 1187 4.58 54.70 26.1	STATED 0-12 13-19 OVER 939 9707 3923 2554 5.48 56.69 22.91 14.92 34.25 37.88 32.05 33.19 26 194 143 163 4.94 36.88 27.19 30.99 0.95 0.76 1.17 2.12 429 3090 1962 1518 6.13 44.15 28.03 21.69 15.65 12.06 16.03 19.73 456 3978 2134 1189 5.88 51.28 27.51 15.33 16.63 15.52 17.43 15.45 291 2952 1439 756 5.35 54.28 26.46 13.90 10.61 11.52 11.76 9.83 168 1829 822 494 5.07 55.21 24.81 14.91 6.13 7.14 6.72 6.42

TABLE 12

FATHER'S OCCUPATION BY INTERVAL IN YEARS SINCE LAST BIRTH, 1993 ***SINGLETON BIRTHS***

TIME SINCE LAST BIRTH	NO NO TO TO TO TO TO TO TO TO TO TO TO TO TO	STATED BIRTH ORLESS YEARS TEANS 120 292 172	58 1027 63 810 7.32 7.32 4.31 7.30 1.45 25.76 1.58 20.32 19.66 12.29 8.81 8.13 6.41 8	11.91 6.00 11.98 11.57 10.11 37	4 177 13 118 19.35 11.08 9.01 5.47 9.01 - 0.59 26.14 1.92 17.43 19.35 11.38 1.84 1.75 1.34	0.82 1.03 2.47 1.09 1.09 1.09 56	17 623 14 321 19.08 11.43 6.60 3.08 6.49 2.49	3.49 3.64 2.66 4.59 4.47	23 689 17 331 370 260 6.54 4 1 11 33.38 0.82 16.04 17.93 12.60 6.54 4	4.72 4.02 3.23 4.73 4.77	26 1305 36 629 791 324 7.92 4.84 9.40 0.61 30.68 0.85 14.79 18.59 12.32 7.92 4.84 9.40 9.64 10.17 9.74 8.80	5.34 7.62 6.84 0.33 188 94 57	15 502 9 190 293 8.94 6.32 3.83 8.94 8.94 13.18 19.70 12.64 2.84 2.69 2.93.	3.08 2.93 1.71 2.00 3.08 217	NON- 37 1306 40 590 829 7.56 NON- 30.27 0.93 13.68 19.22 13.28 7.56 1
FATHER'S	OCCUPATION FREQUENCY	ROW PERCENT	FARMERS AND	FARM MANAGERS	OTHER AGRICULTURAL	OCCUPATIONS AND	HIGHER	PROFESSIONAL	LOWER	PROFESSIONAL	EMPLOYERS AND	MANAGERO	SALARIED		INTERMEDIATE NON-

FATHER'S OCCUPATION BY INTERVAL IN YEARS SINCE LAST BIRTH, 1993 TABLE 12 - continued

:		TOTAL	4094		8.48	9268	7	8.3	2927		90.9	1926		3.99	1647		3.41	223		0.46	9349		19.36	266		0.55	48302	100.00
	ļ	MORE THAN 6 YEARS	498	12.16	10.96	626	10.56	21.33	332	11.34	7.31	270	14.02	5.94	189	11.48	4.16	56	11.66	0.57	681	7.28	14.99	56	9.77	0.57	4543	9.41
		>5 YEARS TO 6 YEARS	211	5.15	9.97	473	5.10	22.35	133	4.54	6.29	128	6.65	6.05	92	4.55	3.54	12	5.38	0.57	234	2.50	11.06	14	5.26	99.0	2116	4.38
		24 YEARS TO 5 YEARS	350	8.55	10.56	723	7.80	21.82	251	8.58	7.58	163	8.46	4-92	112	6.80	3.38	11	4.93	0.33	320	3.42	9.66	18	6.77	0.54	3313	6.86
	SINCE LAST BIRTH	>3 YEARS TO 4 YEARS	508	12.41	9.34	1250	13.49	22.33	380	12.98	6.99	272	14.12	5.00	189	11.48	3.48	26	11.66	0.48	457	4.89	8.40	38	14.29	0.70	5438	11.26
SINGLETON BIRTHS	TIME SINCE	>2 YEARS TO 3 YEARS	715	17.46	9.22	1633	17.62	21.05	519	17.73	69.9	307	15.94	3.96	312	18.94	4.02	32	14.35	0.41	259	7.03	8.47	37	13.91	0.48		16.06
GLETON		>1 YEAR TO 2 YEARS	572	13.97	8.17	1344	14.50	19.20	432	14.76	6.17	346	17.96	4.94	374	22.71	5.34	39	17.49	0.56	850	9.09	12.14	47	17.67	0.67	6669	14.49
NIS***		1 YEAR OR LESS	49	1.20	9.32	83	0.00	15.78	29	0.99	5.51	24	1.25	4.56	49	2.98	9.32	က	1.35	0.57	95	1.02	18.06	2	0.75	0.38	526	1.09
		NO PREVIOUS BIRTH	1163	28.41	6.79	2700	29.13	15.77	820	28.02	4.79	400	20.77	2.34	307	18.64	1.79	74	33.18	0.43	5952	63.66	34.76	78	29.32	0.46	17123	35.45
+		NOT	28	0.68	5.75	83	0.0	17.04	31	1.06	6.37	16	0.83	3.29	40	2.43	8.21	0	0.00	0.00	103	1.10	21.15	9	2.26	1.23	487	1.01
	FATHER'S OCCUPATION	FREQUENCY ROW PERCENT	OTHER NON-MANUAL	WORKERS		SKILLED MANUAL	WORKERS		SEMI-SKILLED	MANUAL WORKERS		UNSKILLED MANUAL	WORKERS		UNEMPLOYED			NOT CLASSIFIABLE			NOT APPLICABLE			NOT STATED			TOTAL	

TABLE 13
FATHER'S OCCUPATION BY INFANT'S TYPE OF FEEDING, 1993
SINGLETON BIRTHS

	***SINGL	FION BIRIUS	E SEEDING	<u> </u>
FATHER'S OCCUPATION	····	TYPE O	F FEEDING	
FREQUENCY			,	
ROW PERCENT	NOT	j		TOTAL
COL PERCENT	STATED	ARTIFICIAL	BREAST	TOTAL
FARMERS AND	43	2418	1497	3958
FARM MANAGERS	1.09	61.09	37.82	0.04
I ALIM MANAGENO	10.62	7.69	9.24	8.24
OTHER AGRICULTURAL	4	470	200	674
OCCUPATIONS AND	0.59	69.73	29.67	1.40
FISHERMEN	0.99	1.50	1.23	1808
HIGHER	9	581	1218 67.37	1000
PROFESSIONAL	0.50	32.13	7.52	3.76
	2.22	1.85	1255	2056
LOWER	17	784	61.04	
PROFESSIONAL	0.83	38.13	7.75	4,28
	4.20	2.49	2087	4237
EMPLOYERS AND	27	2123 50.11	49.26	
MANAGERS	0.64	6.75	12.89	8.82
	6.67	762	712	1482
SALARIED	0.54	51.42	48.04	
EMPLOYEES	1.98	2.42	4.40	3.09
TARREST ATT NON	38	2538	1701	4277
INTERMEDIATE NON-	0.89	59.34	39.77	1
MANUAL WORKERS	9.38	8.08	10.50	8.90
OTHER NON-MANUAL	24	2867	1180	4071
WORKERS	0.59	70.42	28.99	0.40
VVOITICETIC	5.93	9.12	7.29	9239
SKILLED MANUAL	72	5977	3190	9238
WORKERS	0.78	64.69	34.53	19.24
	17.78	19.02	19.70	2915
SEMI-SKILLED	22	2212	23.36	2010
MANUAL WORKERS	0.75	75.88 7.04	4.21	6.07
	5.43	1589	311	1913
UNSKILLED MANUAL	13	83.06	16.26	
WORKERS	0.68 3.21	5.06	1.92	3.98
	36	1416	185	1637
UNEMPLOYED	2.20	86.50	11.30	
	8.89	4.51	1.14	3.41
NOT CLASSIFIABLE	1	129	93	223
NOT CLASSIFIABLE	0.45	57.85	41.70	0.40
	0.25	0.41	0.57	0.46
NOT APPLICABLE	84	7389	1807	9280
NOT ALL ELONDER	0.91	79.62	19.47	19.32
	20.74	23.51	11.16	260
NOT STATED	7	175	78	200
	2.69	67.31	30.00	0.54
	1.73	0.56	16195	48030
TOTAL	405	31430	33.72	100.00
	0.84	65.44	00.72	

TABLE 14

INFANT'S TYPE OF FEEDING BY MATERNAL PARITY, 1993

				ONIC	SINGLETON BIRTHS	SHIRIS	ļ		ļ	į	
	TYPE OF			•		A 14 0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VTIONO ININOT				
	FEEDING		:				י והאין				
	FREQUENCY						-				
	ROW PERCENT	LON		,						MORE	
	COL PERCENT	STATED	0	1	2	3	4	2	မ	THAN 6	TOTAL
	ARTIFICIAL	73	10612	9003	5645	3041	1433	725	370	528	31430
		0.23	33.76	28.64	17.96	9.68	4.56	2.31	1.18	1.68	
		57.94	62.31	64.18	66.43	68.74	75.34	77.46	77.73	86.42	65.44
ç	BREAST	78	6266	4918	2789	1358	451	207	103	22	16195
96		0.17	38.69	30.37	17.22	8.39	2.78	1.28	0.64	0.46	
		22.22	36.79	35.06	32.82	30.70	23.71	22.12	21.64	12.27	33.72
	NOT STATED	25	152	106	64	25	18	4	3	8	405
		6.17	37.53	26.17	15.80	6.17	4.44	0.99	0.74	1.98	
		19.84	0.89	0.76	0.75	0.57	0.95	0.43	0.63	1.31	0.84
	TOTAL	126	17030	14027	8498	4424	1902	936	476	611	48030
		0.26	35.46	29.20	17.69	9.21	3.96	1.95	0.99	1.27	100.00
]							

APPENDIX E

WIGGLESWORTH CLASSIFICATION, 1993

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 (STILL-BIRTHS AND EARLY NEONATAL DEATHS).6

3 Wiggleworth, J.S., "Monitoring Perinatal Mortality," The Lancet, 1980, 2, pp. 684-686. 4 The analysis by Wiggleswoth'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. 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 1993. 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 1993. 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, 1993

WIGGLESWORTH CLASSIFICATION	FREQUENCY	PERCENT	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT
MACERATED STILLBIRTHS	153	34.5	153	34.5
CONGENITAL MALFORMATIONS	117	26,4	270	60.8
IMMATURITY	59	13.3	329	74.1
ASPHYXIAL CONDITIONS	94	21.2	423	95.3
SPECIFIC CONDITIONS	21	4.7	444	100.0

⁷ This category includes the following I.C.D. codes: 765, 769.0, 770.4, 772.1, 777.5

⁸ This cateogry 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, 776, 777.0, 778.0.

TABLE 2

WIGGLESWORTH CLASSIFICATION
THE AND MORTAL ITY RATES BY CAUSE AND BIRTHWEIGHT, 1993

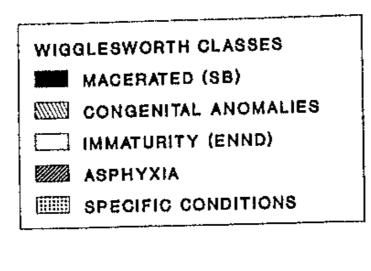
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		₽ _		NUMBER		105	č	- 42	25	175	<u>თ</u>		444			
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	אואו באוצ	ZITAL ZITAL	1		1140	14 1	02 70	72.72	37.04	15.78	0.87	116.28	21.7.1	9.37		
	DEALHS	CONGENITAL		ANOMALIES		NUMBER	;	<u>4</u> α	<u> </u>	2 2	; \	- 4 F	c	7.5.	=	
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	OF PEF		MACH	STILL	;]	NIMBER		22	; S2	<u>ဂ</u>	<u>-</u>	7./	رم ا	1	153	
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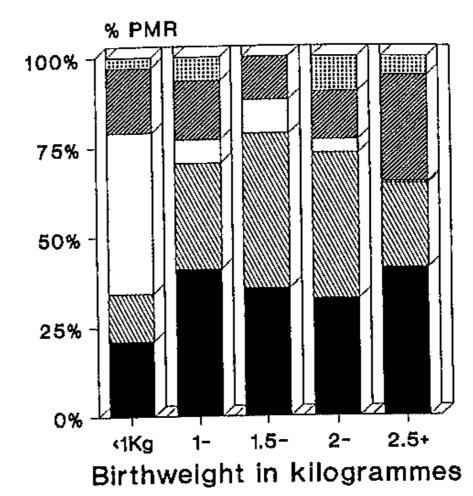
TABLE 3

WIGGLESWORTH CLASSIFICATION USING THE 28 WEEKS DEFINITION OF A STILLBIRTH IMBER OF PERINATAL DEATHS AND MORTALITY RATES BY CAUSE AND BIRTHWEIGHT, 1993

	į	AL	DATE	חאור -	26 76	0/.100	02 7 20	631.10	84.54	200	39.07	270	7.7	000 30	20.50	18	8.62	<u> </u>		
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FIG E1 WIGGLESWORTH CLASSIFICATION: PERCENT DISTRIBUTION OF PERINATAL DEATHS BY CAUSE OF DEATH AND WEIGHT, 1993





Source: Appendix E, Table 2.