

Congenital anomaly statistics

notifications

A statistical review of notifications of congenital anomalies received as part of the England and Wales National Congenital Anomaly System, 2003

[Click here to go to Contents Page](#)

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The Office for National Statistics (ONS) is the government agency responsible for compiling, analysing and disseminating many of the United Kingdom's economic, social and demographic statistics, including the retail prices index, trade figures and labour market data, as well as the periodic census of the population and health statistics. It is also the agency that administers the statutory registration of births, marriages and deaths in England and Wales. The Director of ONS is also the National Statistician and the Registrar General for England and Wales.

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Contents

Select the HAND tool. Position it over the Contents list below and when an ARROW appears on the hand click the mouse once to enlarge the text. Continue clicking the arrowed hand tool to advance down the page. When the HAND tool changes to a POINTED FINGER click the mouse button once to link to the listed item.

			Page
Introduction			v
General notes			vii
Table 1	Summary table – Congenital anomaly notifications, 2003	England and Wales	1
Table 2a	Live and stillborn babies notified - numbers: sex by condition, 2003	England and Wales	2
Table 2b	Live and stillborn babies notified - rates per 10,000 live/stillbirths: sex by condition, 2003	England and Wales	3
Table 3	All babies notified - numbers: number of reported anomalies, 2003	England and Wales	4
Table 4a	Live and stillborn babies notified - numbers: multiplicity by condition, 2003	England and Wales	5
Table 4b	Live and stillborn babies notified - rates per 10,000 live/stillbirths: multiplicity by condition, 2003	England and Wales	5
Table 5a	Total (live and still) births, all babies notified - numbers: condition by area of usual residence of mother, 2003	England and Wales	6
Table 5b	All babies notified - rates per 10,000 total births: condition by area of usual residence of mother, 2003	England and Wales	8
Table 6a	All babies notified - numbers: month of birth by condition, 2003	England and Wales	10
Table 6b	All babies notified - rates per 10,000 total births: month of birth by condition, 2003	England and Wales	10
Table 7a	Live and stillborn babies notified - numbers: birthweight by condition, 2003	England and Wales	12
Table 7b	Live and stillborn babies notified - rates per 10,000 live/stillbirths: birthweight by condition, 2003	England and Wales	13
Table 8a	All babies notified - numbers: age of mother by condition, 2003	England and Wales	14
Table 8b	All babies notified - rates per 10,000 total births: age of mother by condition, 2003	England and Wales	14
Table 9	Strategic Health Authorities in England and Health Authorities in Wales which have shown an increase of numbers of a particular anomaly compared with the average notification for that area and anomaly during the previous period, 2003	England and Wales	15

	Page	
Appendix A	List of conditions for exclusion	18
Appendix B	Example of congenital anomalies notifications form (SD56)	19
Appendix C	List of ICD10 codes included within anomaly groups	20
Appendix D	ONS monitoring groups and ICD10 equivalent codes	21

Introduction

The monitoring scheme

This is the eighteenth in a series of annual reference volumes and presents information collected through the National Congenital Anomaly System (NCAS) for 2003.¹

Since 1964 the Office for National Statistics (ONS) has run a monitoring system for congenital anomalies in England and Wales. This notification system was initiated following the thalidomide epidemic in order to quickly detect any similar hazard. The primary purpose of this system is to detect changes in the frequency of reporting any particular anomaly or group of anomalies rather than trying to estimate the prevalence at birth. From 1st January 1995 anomalies detected at any age can be reported to the NCAS.

The congenital anomaly notification system, which is voluntary at all stages, is usually linked to the statutory system of birth notification to local health authorities which has existed since 1926. The local health authorities extract from the birth notifications details of babies born with anomalies. This information is commonly supplemented with details obtained from midwives, hospitals, doctors and health visitors.

Prior to 1990 all anomalies, however minor, were reportable to ONS. In January 1990 an exclusion list was introduced (a copy of the exclusion list is at **Appendix A**). This list describes the minor anomalies which should no longer be notified to ONS.

Information about babies with congenital anomalies is forwarded to ONS on a standard form (a copy of the reporting form used for the period covered by this volume is at **Appendix B**). Following the restructuring of the National Health Service in 1974 the information was passed to ONS by the area health authorities (AHAs) and their respective area Medical Officers. When AHAs were abolished in March 1982 the work was taken over by the district health authorities (DHAs) and their district Medical Officers.

Since the reforms following the NHS and Community Care Act 1990, the notification forms have been completed by NHS Trusts, which receive birth notifications on behalf of the Health Authority.

Significant changes have taken place in the organisation of the National Health Service in recent years. This volume relates to the situation as it existed in 2003.

ONS performs a statistical analysis on every quarter's notifications. This analysis uses the cumulative sum (CUSUM) technique. This compares the number of notifications in each of the nearly 100 anomalies or groups of anomalies (see **Appendix D**) in each of the areas monitored, with the average number previously reported from that area. If a significant rise is detected in any monitored class or group the relevant health authorities are informed. It must be remembered that an increase in notification may be due to changes in reporting practice rather than due to a true change in prevalence.

From the notification form at **Appendix B**, it can be seen that information is also collected on a number of factors of interest which are not apparently directly relevant to the monitoring, including parents' occupations and mother's age. These factors are used for epidemiological studies.

Although NCAS is primarily for monitoring changes in the frequency of reporting anomalies, it does provide the most extensive data on the prevalence levels available in England and Wales. However the major disadvantage of using the monitoring system to measure prevalence arises from the deficiencies in its coverage. In 1996 the Registrar General's Medical Advisory Committee² recommended that '*Where good congenital anomaly registers exist outside OPCS (now ONS) information should be exchanged with these registers*'.

From January 2003, two local congenital anomaly registers, the Northern Congenital Abnormality Survey and the South West Congenital Anomaly Register have begun exchanging data electronically with ONS. These joined the following six local registers which have been exchanging data with ONS since the years indicated.

- 1998 - Welsh Congenital Anomaly Register and Information Service (CARIS)³
- 1999 - East Midlands & South Yorkshire Congenital Anomaly Register
- 2000 - North Thames (West) Congenital Malformation Register
 - Merseyside and Cheshire Congenital Anomaly Survey
- 2002 - Wessex Antenatally Detected Anomalies Register (WANDA)
 - Congenital Anomaly Register for Oxfordshire, Berkshire & Buckinghamshire (CAROBB) (*only covers Oxfordshire up to 2003*)

In April 2001, a revised guide for data users and suppliers was distributed.⁴ The purpose of this handbook was to provide information about the National System, guidance about reporting anomalies for data suppliers and information about surveillance for health authorities.

Symbols and conventions used

- nil
- .. not available
- * In line with the National Statistics Code of Practice and the underpinning Protocol on Data Access and Confidentiality, all statistics for 2003 have been disclosure-controlled to protect confidentiality. Thus all subnational numbers smaller than 5, and all rates based on such numbers, have been suppressed. Secondary suppressions have been applied as necessary to avoid the possibility of disclosure through subtraction.

Rates calculated from less than 20 anomalies are distinguished by italic type as a warning to the user that their reliability as a measure may be affected by the small number of events.

References

1. Annual update: Congenital anomaly statistics: notifications, 2003 England and Wales. *Health Statistics Quarterly* **25**. To be published 24 February 2005.
2. The OPCS Monitoring Scheme for Congenital Malformations. A review of the Registrar General's Medical Advisory Committee. Occasional Paper 43 (1995) HMSO: London.
3. Botting B (2000). The impact of more complete data from Wales on the National Congenital Anomaly System. *Health Statistics Quarterly* **05**, 7-9.
4. Office for National Statistics (2001). *The National Congenital Anomaly System – A guide for data users and suppliers*.
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General notes

The statistics in this publication relate to the National Congenital Anomaly System (NCAS) as at 4 November 2004.

All tables relate to 2003 data only: no time series data have been included.

Congenital Anomalies

Since 1995 congenital anomaly notifications have been classified to the *International Statistical Classification of Diseases and Related Health Problems* tenth Revision (ICD10). This allowed some conditions which had previously been within a single ICD9 code, to be identified separately, for example *gastroschisis* and *exomphalos* to be shown separately. Details of the ICD10 codes which are included in the major anomaly categories in the tables can be found in **Appendix C**.

Age at death

Stillbirths	late fetal deaths: Until 30 September 1992: after 28 weeks of gestation. From 1 October 1992: after 24 weeks of gestation.
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Causes of death

The 2003 neonatal deaths and stillbirths for selected congenital anomalies will be published in ONS Series DH3 Mortality statistics: childhood, infant and perinatal 2003 in Spring 2005.

Abortions

Since April 2002, the Department of Health has been responsible for the processing of the abortions notifications forms. The recent level of detailed inquiries about abortion statistics has prompted concern about the possible breach of an individual's confidentiality when low numbers of cases have been identified in the statistics. Therefore, detailed information on the number of abortions performed under grounds E will not be available until the Department of Health has considered how best to make such information available in a way that is compatible with the need to protect the identities of those involved.

Area of residence

Tables 5a and **5b** show data by Government Office Region and Strategic Health Authority of residence of mother at the time of the child's birth.

Birthweight

ONS has obtained birthweight for live births since 1975 through the co-operation of district health authorities. Birthweight information given on the birth notification form is transferred from district health authorities to the local registrars of births and deaths who copy it on to the birth registration draft entry forms. These are subsequently forwarded to ONS for statistical processing. A similar system operates for stillbirths, although the initial source of information is the medical certificate which is prepared by the certifying doctor or midwife, and is passed, usually by the parent, to the registrar.

In 2003, 99.9 per cent of live births and 97.6 per cent of stillbirths had a birthweight recorded.

Further information

ONS is happy to provide statistics to outside researchers pursuing related topics subject to the constraints of confidentiality. Particulars relating to individual (anonymous) children are only released with the approval of the data custodian (usually a community paediatrician within the Community Trust), who originally provided the data. Anyone interested in using these data should contact:

Child Health Unit
Office for National Statistics
Room B6/10
1 Drummond Gate
London SW1V 2QQ
Telephone: 020 7533 5641 or
ncas@ons.gov.uk

Table 1 Summary table showing congenital anomaly statistics from the National Congenital Anomaly System, 2003**England and Wales**

Condition	Congenital anomaly notifications (NCAS) ¹		
	Live birth	Stillbirth	Not known
All babies notified	6,624	332	27
Babies with a mention of:			
Central nervous system anomalies	260	95	1
Anencephalus	17	16	-
All spina bifida	57	23	1
Encephalocele	9	-	-
Congenital hydrocephalus	56	17	-
Eye	88	1	1
Anophthalmia	10	-	-
Cleft lip and palate	509	15	2
Cleft of only lip	130	2	-
Cleft of only palate	170	5	1
Cleft of lip and palate	209	8	1
Other face, ear and neck	226	9	-
Heart and circulatory	1,261	56	5
Respiratory	133	17	-
Alimentary	414	14	-
Tracheo-oesophageal fistula	47	-	-
Oesophageal atresia	13	1	-
Atresia/stenosis large intestine, rectum or anal canal	79	3	-
Genital organs	592	9	4
Hypospadias	456	1	1
Urinary system	745	35	3
Renal agenesis/dysgenesis	69	10	1
Epispadias	13	-	-
Musculoskeletal	1,922	84	10
Dislocation of the hip	107	-	-
Deformities of feet	601	18	3
Polydactyly	350	6	-
Syndactyly	221	6	1
Limb reductions	171	18	2
Diaphragmatic defects	75	8	1
Exomphalos	48	7	-
Gastroschisis	129	2	1
Skin and integument	270	1	-
Chromosomal anomalies	521	75	-
Down syndrome	350	24	-
Endocrine and metabolic disorders	171	7	-
Congenital infections	12	5	-
Other congenital anomalies not elsewhere classified	554	60	4

Source

Note: For information on stillbirths, neonatal deaths and abortions data: see page vii

1 National Congenital Anomaly System at 4th November 2004

Table 2a Live and stillborn babies notified - numbers:
sex by condition, 2003

England and Wales

Condition	Total ¹			Live born			Stillborn		
	Total ²	Male	Female	Total ²	Male	Female	Total ²	Male	Female
All babies notified	6,983	4,082	2,825	6,624	3,905	2,670	332	169	141
Babies with a mention of:									
Central nervous system anomalies	356	177	173	260	136	122	95	41	50
Anencephalus	33	15	17	17	9	7	16	6	10
All spina bifida	81	35	42	57	25	30	23	10	11
Encephalocele	9	5	4	9	5	4	-	-	-
Congenital hydrocephalus	73	45	28	56	36	20	17	9	8
Eye	90	47	43	88	46	42	1	1	-
Anophthalmia	10	4	6	10	4	6	-	-	-
Cleft lip and palate	526	310	213	509	302	204	15	8	7
Cleft of only lip	132	91	39	130	90	38	2	1	1
Cleft of only palate	176	82	94	170	79	91	5	3	2
Cleft of lip and palate	218	137	80	209	133	75	8	4	4
Other face, ear and neck	235	125	109	226	119	106	9	6	3
Heart and circulatory	1,322	713	600	1,261	678	577	56	33	22
Respiratory	150	81	68	133	73	60	17	8	8
Alimentary	428	258	165	414	253	157	14	5	8
Tracheo-oesophageal fistula	47	28	19	47	28	19	-	-	-
Oesophageal atresia	14	9	5	13	8	5	1	1	-
Atresia/stenosis large intestine, rectum or anal canal	82	57	25	79	55	24	3	2	1
Genital organs	605	543	37	592	537	35	9	5	1
Hypospadias	458	457	-	456	456	-	1	1	-
Urinary system	783	543	230	745	520	218	35	21	12
Renal agenesis/dysgenesis	80	52	26	69	45	23	10	6	3
Epispadias	13	11	1	13	11	1	-	-	-
Musculoskeletal	2,016	1,120	884	1,922	1,067	847	84	51	30
Dislocation of the hip	107	20	87	107	20	87	-	-	-
Deformities of feet	622	353	267	601	342	257	18	10	8
Polydactyly	356	221	134	350	215	134	6	6	-
Syndactyly	228	145	83	221	142	79	6	3	3
Limb reductions	191	113	77	171	100	70	18	12	6
Diaphragmatic defects	84	50	33	75	44	30	8	6	2
Exomphalos	55	40	14	48	34	14	7	6	-
Gastroschisis	132	71	58	129	71	56	2	-	1
Skin and integument	271	141	129	270	141	128	1	-	1
Chromosomal anomalies	596	297	290	521	259	260	75	38	30
Down syndrome	374	192	178	350	181	169	24	11	9
Endocrine and metabolic disorders	178	73	104	171	71	99	7	2	5
Congenital infections	17	7	9	12	5	7	5	2	2
Other congenital anomalies not elsewhere classified	618	318	287	554	280	269	60	36	17
Total live and stillbirths	624,816	320,180	304,636	621,251	318,317	302,934	3,565	1,863	1,702

1 Total includes unknown whether live or stillborn.

2 Includes indeterminate sex and not known/not stated.

Table 2b Live and stillborn babies notified - rates per 10,000 live/stillbirths:
sex by condition, 2003

England and Wales

Condition	Live born		Stillborn	
	Male	Female	Male	Female
All babies notified	122.7	88.1	907.1	828.4
Babies with a mention of:				
Central nervous system anomalies	4.3	4.0	220.1	293.8
Anencephalus	0.3	0.2	32.2	58.8
All spina bifida	0.8	1.0	53.7	64.6
Encephalocele	0.2	0.1	-	-
Congenital hydrocephalus	1.1	0.7	48.3	47.0
Eye	1.4	1.4	5.4	-
Anophthalmia	0.1	0.2	-	-
Cleft lip and palate	9.5	6.7	42.9	41.1
Cleft of only lip	2.8	1.3	5.4	5.9
Cleft of only palate	2.5	3.0	16.1	11.8
Cleft of lip and palate	4.2	2.5	21.5	23.5
Other face, ear and neck	3.7	3.5	32.2	17.6
Heart and circulatory	21.3	19.0	177.1	129.3
Respiratory	2.3	2.0	42.9	47.0
Alimentary	7.9	5.2	26.8	47.0
Tracheo-oesophageal fistula	0.9	0.6	-	-
Oesophageal atresia	0.3	0.2	5.4	-
Atresia/stenosis large intestine, rectum or anal canal	1.7	0.8	10.7	5.9
Genital organs	16.9	1.2	26.8	5.9
Hypospadias	14.3	-	5.4	-
Urinary system	16.3	7.2	112.7	70.5
Renal agenesis/dysgenesis	1.4	0.8	32.2	17.6
Epispadias	0.3	0.0	-	-
Musculoskeletal	33.5	28.0	273.8	176.3
Dislocation of the hip	0.6	2.9	-	-
Deformities of feet	10.7	8.5	53.7	47.0
Polydactyly	6.8	4.4	32.2	-
Syndactyly	4.5	2.6	16.1	17.6
Limb reductions	3.1	2.3	64.4	35.3
Diaphragmatic defects	1.4	1.0	32.2	11.8
Exomphalos	1.1	0.5	32.2	-
Gastroschisis	2.2	1.8	-	5.9
Skin and integument	4.4	4.2	-	5.9
Chromosomal anomalies	8.1	8.6	204.0	176.3
Down syndrome	5.7	5.6	59.0	52.9
Endocrine and metabolic disorders	2.2	3.3	10.7	29.4
Congenital infections	0.2	0.2	10.7	11.8
Other congenital anomalies not elsewhere classified	8.8	8.9	193.2	99.9

Table 3 All babies notified - numbers: England and Wales
number of reported anomalies, 2003

All babies notified	6,983
1 anomaly	5,460
2 anomalies	1,000
3 anomalies	330
4 anomalies	114
5 anomalies	48
6 anomalies	16
7 anomalies	10
8 or more anomalies	5

Table 4a Live and stillborn babies notified - numbers: multiplicity by condition, 2003**England and Wales**

Condition	Total ¹			Live born			Stillborn		
	Total ²	Singleton	Multiple	Total ²	Singleton	Multiple	Total ²	Singleton	Multiple
All babies notified	6,983	6,733	225	6,624	6,413	188	332	296	34
Babies with a mention of:									
Central nervous system anomalies	356	328	27	260	243	16	95	84	11
Anencephalus	33	27	6	17	13	4	16	14	2
All spina bifida	81	73	8	57	54	3	23	18	5
Eye	90	85	5	88	83	5	1	1	-
Cleft lip and palate	526	515	11	509	500	9	15	13	2
Other face, ear and neck	235	230	4	226	222	3	9	8	1
Heart and circulatory	1,322	1,261	57	1,261	1,207	50	56	51	5
Respiratory	150	141	9	133	126	7	17	15	2
Alimentary	428	408	19	414	397	16	14	11	3
Genital organs	605	587	16	592	576	14	9	7	2
Urinary system	783	758	22	745	723	19	35	32	3
Musculoskeletal	2,016	1,952	59	1,922	1,868	49	84	75	9
Skin and integument	271	266	5	270	265	5	1	1	-
Chromosomal anomalies	596	568	18	521	501	12	75	67	6
Down syndrome	374	360	9	350	339	8	24	21	1
Endocrine and metabolic disorders	178	168	9	171	161	9	7	7	-
Congenital infections	17	16	1	12	11	1	5	5	-
Other congenital anomalies not elsewhere classified	618	591	25	554	535	17	60	52	8
Total live and stillbirths	624,816	606,449	18,367	621,251	603,222	18,029	3,565	3,227	338

1 Total includes unknown whether live or stillborn.

2 Includes not known/not stated.

Table 4b Live and stillborn babies notified - rates per 10,000 live/stillbirths: multiplicity by condition, 2003**England and Wales**

Condition	Total ¹			Live born			Stillborn		
	Total ²	Singleton	Multiple	Total ²	Singleton	Multiple	Total ²	Singleton	Multiple
All babies notified	111.8	111.0	122.5	106.6	106.3	104.3	931.3	917.3	1,005.9
Babies with a mention of:									
Central nervous system anomalies	5.7	5.4	14.7	4.2	4.0	8.9	266.5	260.3	325.4
Anencephalus	0.5	0.4	3.3	0.3	0.2	2.2	44.9	43.4	59.2
All spina bifida	1.3	1.2	4.4	0.9	0.9	1.7	64.5	55.8	147.9
Eye	1.4	1.4	2.7	1.4	1.4	2.8	2.8	3.1	-
Cleft lip and palate	8.4	8.5	6.0	8.2	8.3	5.0	42.1	40.3	59.2
Other face, ear and neck	3.8	3.8	2.2	3.6	3.7	1.7	25.2	24.8	29.6
Heart and circulatory	21.2	20.8	31.0	20.3	20.0	27.7	157.1	158.0	147.9
Respiratory	2.4	2.3	4.9	2.1	2.1	3.9	47.7	46.5	59.2
Alimentary	6.9	6.7	10.3	6.7	6.6	8.9	39.3	34.1	88.8
Genital organs	9.7	9.7	8.7	9.5	9.5	7.8	25.2	21.7	59.2
Urinary system	12.5	12.5	12.0	12.0	12.0	10.5	98.2	99.2	88.8
Musculoskeletal	32.3	32.2	32.1	30.9	31.0	27.2	235.6	232.4	266.3
Skin and integument	4.3	4.4	2.7	4.3	4.4	2.8	2.8	3.1	-
Chromosomal anomalies	9.5	9.4	9.8	8.4	8.3	6.7	210.4	207.6	177.5
Down syndrome	6.0	5.9	4.9	5.6	5.6	4.4	67.3	65.1	29.6
Endocrine and metabolic disorders	2.8	2.8	4.9	2.8	2.7	5.0	19.6	21.7	-
Congenital infections	0.3	0.3	0.5	0.2	0.2	0.6	14.0	15.5	-
Other congenital anomalies not elsewhere classified	9.9	9.7	13.6	8.9	8.9	9.4	168.3	161.1	236.7

1 Total includes unknown whether live or stillborn.

2 Includes not known/not stated.

Table 5a 2003 Series MB3 no.18

Table 5a Total (live and still) births, all babies notified - numbers: condition by area of usual residence of mother, 2003

Area of usual residence	Total (live and still) births	Central nervous system anomalies	Cleft lip and palate	Other face, ear and neck	Heart and circulatory	Alimentary
ENGLAND AND WALES	624,816	356	526	235	1,322	428
England	593,256	328	482	218	1,002	374
Wales	31,560	28	44	17	320	54
Government Office Regions						
North East	27,155	23	46	7	237	19
North West	78,315	51	69	27	119	31
Yorkshire and The Humber	58,270	32	47	15	123	57
East Midlands	47,205	26	48	60	94	56
West Midlands	64,081	27	43	14	30	21
East	63,020	30	52	19	53	27
London	111,189	61	64	27	114	54
South East	92,285	41	59	21	108	46
South West	51,736	37	54	28	124	63
Strategic Health Authorities/ Government Regions						
North East						
County Durham and Tees Valley	12,590	12	24	*	76	11
Northumberland, Tyne and Wear	14,565	11	22	*	161	8
North West						
Cheshire and Merseyside	25,820	24	23	*	43	9
Cumbria and Lancashire	21,081	10	15	*	44	10
Greater Manchester	31,414	17	31	12	32	12
Yorkshire and The Humber						
North and East Yorkshire and Northern Lincolnshire	16,796	*	16	*	*	18
South Yorkshire	14,566	21	14	8	90	27
West Yorkshire	26,908	*	17	*	*	12
East Midlands						
Leicestershire, Northamptonshire and Rutland	19,195	12	15	41	32	22
Trent	28,010	14	33	19	62	34
West Midlands						
Birmingham and the Black Country	31,292	22	18	8	19	9
West Midlands South	16,700	*	9	*	*	*
Shropshire and Staffordshire	16,089	*	16	*	*	*
East						
Bedfordshire and Hertfordshire	20,664	21	20	10	33	16
Essex	18,535	*	11	*	*	*
Norfolk, Suffolk and Cambridgeshire	23,821	*	21	*	*	*
London						
North Central London	18,023	*	5	5	11	*
North East London	25,686	13	11	*	*	*
North West London	26,066	25	31	11	67	23
South East London	22,978	*	7	6	*	5
South West London	18,436	11	10	*	22	18
South East						
Hampshire and Isle of Wight	19,242	17	12	*	51	14
Kent and Medway	18,273	8	16	9	9	7
Surrey and Sussex	28,154	5	18	*	14	9
Thames Valley	26,616	11	13	9	34	16
South West						
Avon, Gloucestershire and Wiltshire	24,921	13	27	*	31	13
Dorset and Somerset	11,607	9	12	*	23	14
South West Peninsula	15,208	15	15	14	70	36

							Area of usual residence
Genital organs	Urinary system	Musculoskeletal	Skin and integument	Chromosomal anomalies	Down syndrome	Other congenital anomalies not elsewhere classified	
605	783	2,016	271	596	374	618	ENGLAND AND WALES
540	686	1,784	242	558	358	544	England
65	97	232	29	38	16	74	Wales
							Government Office Regions
14	49	82	*	57	30	28	North East
93	155	281	34	82	56	91	North West
52	59	170	*	43	35	36	Yorkshire and The Humber
87	85	266	29	72	42	54	East Midlands
48	37	177	27	29	22	54	West Midlands
47	37	137	29	50	34	68	East
72	90	227	46	84	60	87	London
78	96	211	28	83	50	69	South East
49	78	233	29	58	29	57	South West
							Strategic Health Authorities/ Government Regions
							North East
6	24	31	*	23	11	12	County Durham and Tees Valley
8	25	51	*	34	19	16	Northumberland, Tyne and Wear
							North West
27	104	85	7	45	30	42	Cheshire and Merseyside
27	11	58	8	19	12	12	Cumbria and Lancashire
39	40	138	19	18	14	37	Greater Manchester
							Yorkshire and The Humber
							North and East Yorkshire and Northern Lincolnshire
12	9	51	9	13	*	8	Lincolnshire
30	43	71	*	25	20	18	South Yorkshire
10	7	48	*	5	*	10	West Yorkshire
							East Midlands
35	50	104	12	32	17	30	Leicestershire, Northamptonshire and Rutland
52	35	162	17	40	25	24	Trent
							West Midlands
35	26	114	22	16	12	34	Birmingham and the Black Country
6	5	32	*	6	*	10	West Midlands South
7	6	31	*	7	*	10	Shropshire and Staffordshire
							East
12	14	40	*	22	10	19	Bedfordshire and Hertfordshire
25	17	56	22	13	11	33	Essex
10	6	41	*	15	13	16	Norfolk, Suffolk and Cambridgeshire
							London
*	11	32	5	9	7	5	North Central London
*	14	51	5	*	*	9	North East London
33	39	65	9	46	32	34	North West London
13	6	32	21	*	*	25	South East London
14	20	47	6	19	13	14	South West London
							South East
12	21	33	*	41	20	16	Hampshire and Isle of Wight
20	13	54	11	12	8	16	Kent and Medway
17	24	40	*	10	8	12	Surrey and Sussex
29	38	84	8	20	14	25	Thames Valley
							South West
18	12	86	*	24	13	24	Avon, Gloucestershire and Wiltshire
9	23	48	*	17	6	13	Dorset and Somerset
22	43	99	13	17	10	20	South West Peninsula

**Table 5b All babies notified - rates per 10,000 total births:
condition by area of usual residence of mother, 2003**

Area of usual residence						
	Central nervous system anomalies	Cleft lip and palate	Other face, ear and neck	Heart and circulatory	Alimentary	Genital organs
ENGLAND AND WALES	5.7	8.4	3.8	21.2	6.9	9.7
England	5.5	8.1	3.7	16.9	6.3	9.1
Wales	8.9	13.9	5.4	101.4	17.1	20.6
Government Office Regions						
North East	8.5	16.9	2.6	87.3	7.0	5.2
North West	6.5	8.8	3.4	15.2	4.0	11.9
Yorkshire and The Humber	5.5	8.1	2.6	21.1	9.8	8.9
East Midlands	5.5	10.2	12.7	19.9	11.9	18.4
West Midlands	4.2	6.7	2.2	4.7	3.3	7.5
East	4.8	8.3	3.0	8.4	4.3	7.5
London	5.5	5.8	2.4	10.3	4.9	6.5
South East	4.4	6.4	2.3	11.7	5.0	8.5
South West	7.2	10.4	5.4	24.0	12.2	9.5

England and Wales

Urinary system	Musculoskeletal	Skin and integument	Chromosomal anomalies	Down syndrome	Other congenital anomalies not elsewhere classified	Area of usual residence
12.5	32.3	4.3	9.5	6.0	9.9	ENGLAND AND WALES
11.6	30.1	4.1	9.4	6.0	9.2	England
30.7	73.5	9.2	12.0	5.1	23.4	Wales
						Government Office Regions
18.0	30.2	*	21.0	11.0	10.3	North East
19.8	35.9	4.3	10.5	7.2	11.6	North West
10.1	29.2	*	7.4	6.0	6.2	Yorkshire and The Humber
18.0	56.4	6.1	15.3	8.9	11.4	East Midlands
5.8	27.6	4.2	4.5	3.4	8.4	West Midlands
5.9	21.7	4.6	7.9	5.4	10.8	East
8.1	20.4	4.1	7.6	5.4	7.8	London
10.4	22.9	3.0	9.0	5.4	7.5	South East
15.1	45.0	5.6	11.2	5.6	11.0	South West

**Table 6a All babies notified - numbers:
month of birth by condition, 2003**

Condition	Total	Month of birth					
		January	February	March	April	May	June
All babies notified	6,983	626	548	599	607	623	600
Babies with a mention of:							
Central nervous system anomalies	356	30	29	21	44	33	37
Anencephalus	33	2	2	1	8	3	1
All spina bifida	81	6	4	6	8	6	10
Eye	90	9	6	4	8	6	10
Cleft lip and palate	526	44	45	50	46	50	46
Other face, ear and neck	235	23	25	19	28	23	22
Heart and circulatory	1,322	112	88	96	109	122	105
Respiratory	150	11	8	17	13	15	9
Alimentary	428	42	24	52	30	28	39
Genital organs	605	44	58	51	51	61	48
Urinary system	783	59	65	61	55	89	77
Musculoskeletal	2,016	202	131	172	191	155	171
Skin and integument	271	26	33	28	16	24	18
Chromosomal anomalies	596	61	52	48	43	54	55
Down syndrome	374	42	28	31	25	27	36
Endocrine and metabolic disorders	178	18	6	21	13	22	7
Congenital infections	17	3	4	3	1	1	2
Other congenital anomalies not elsewhere classified	618	73	65	54	48	48	59
Total live and stillbirths	624,816	50,880	46,253	51,128	51,028	53,212	51,760

**Table 6b All babies notified - rates per 10,000 total births:
month of birth by condition, 2003**

Condition	Total	Month of birth					
		January	February	March	April	May	June
All babies notified	111.8	123.0	118.5	117.2	119.0	117.1	115.9
Babies with a mention of:							
Central nervous system anomalies	5.7	5.9	6.3	4.1	8.6	6.2	7.1
Anencephalus	0.5	0.4	0.4	0.2	1.6	0.6	0.2
All spina bifida	1.3	1.2	0.9	1.2	1.6	1.1	1.9
Eye	1.4	1.8	1.3	0.8	1.6	1.1	1.9
Cleft lip and palate	8.4	8.6	9.7	9.8	9.0	9.4	8.9
Other face, ear and neck	3.8	4.5	5.4	3.7	5.5	4.3	4.3
Heart and circulatory	21.2	22.0	19.0	18.8	21.4	22.9	20.3
Respiratory	2.4	2.2	1.7	3.3	2.5	2.8	1.7
Alimentary	6.9	8.3	5.2	10.2	5.9	5.3	7.5
Genital organs	9.7	8.6	12.5	10.0	10.0	11.5	9.3
Urinary system	12.5	11.6	14.1	11.9	10.8	16.7	14.9
Musculoskeletal	32.3	39.7	28.3	33.6	37.4	29.1	33.0
Skin and integument	4.3	5.1	7.1	5.5	3.1	4.5	3.5
Chromosomal anomalies	9.5	12.0	11.2	9.4	8.4	10.1	10.6
Down syndrome	6.0	8.3	6.1	6.1	4.9	5.1	7.0
Endocrine and metabolic disorders	2.8	3.5	1.3	4.1	2.5	4.1	1.4
Congenital infections	0.3	0.6	0.9	0.6	0.2	0.2	0.4
Other congenital anomalies not elsewhere classified	9.9	14.3	14.1	10.6	9.4	9.0	11.4

England and Wales

Month of birth						Condition
July	August	September	October	November	December	
607	541	584	591	546	511	All babies notified
						Babies with a mention of:
43	18	25	31	23	22	Central nervous system anomalies
5	3	2	3	1	2	Anencephalus
11	3	6	9	8	4	All spina bifida
7	3	10	13	4	10	Eye
48	42	34	50	38	33	Cleft lip and palate
23	14	22	16	8	12	Other face, ear and neck
117	131	110	122	100	110	Heart and circulatory
19	7	14	15	11	11	Respiratory
44	31	41	36	29	32	Alimentary
47	37	68	45	50	45	Genital organs
74	50	65	67	70	51	Urinary system
174	158	180	158	174	150	Musculoskeletal
18	21	20	24	26	17	Skin and integument
44	51	47	55	43	43	Chromosomal anomalies
32	34	28	34	30	27	Down syndrome
24	14	10	15	9	19	Endocrine and metabolic disorders
-	1	-	-	2	-	Congenital infections
39	54	44	45	43	46	Other congenital anomalies not elsewhere classified
55,710	53,602	54,403	54,459	50,858	51,523	Total live and stillbirths

England and Wales

Month of birth						Condition
July	August	September	October	November	December	
109.0	100.9	107.3	108.5	107.4	99.2	All babies notified
						Babies with a mention of:
7.7	3.4	4.6	5.7	4.5	4.3	Central nervous system anomalies
0.9	0.6	0.4	0.6	0.2	0.4	Anencephalus
2.0	0.6	1.1	1.7	1.6	0.8	All spina bifida
1.3	0.6	1.8	2.4	0.8	1.9	Eye
8.6	7.8	6.2	9.2	7.5	6.4	Cleft lip and palate
4.1	2.6	4.0	2.9	1.6	2.3	Other face, ear and neck
21.0	24.4	20.2	22.4	19.7	21.3	Heart and circulatory
3.4	1.3	2.6	2.8	2.2	2.1	Respiratory
7.9	5.8	7.5	6.6	5.7	6.2	Alimentary
8.4	6.9	12.5	8.3	9.8	8.7	Genital organs
13.3	9.3	11.9	12.3	13.8	9.9	Urinary system
31.2	29.5	33.1	29.0	34.2	29.1	Musculoskeletal
3.2	3.9	3.7	4.4	5.1	3.3	Skin and integument
7.9	9.5	8.6	10.1	8.5	8.3	Chromosomal anomalies
5.7	6.3	5.1	6.2	5.9	5.2	Down syndrome
4.3	2.6	1.8	2.8	1.8	3.7	Endocrine and metabolic disorders
-	0.2	-	-	0.4	-	Congenital infections
7.0	10.1	8.1	8.3	8.5	8.9	Other congenital anomalies not elsewhere classified

Table 7a Live and stillborn babies notified - numbers:
birthweight by condition, 2003

England and Wales

Condition	Birthweight (grammes)										
	Total ¹	Under 1,000	1,000- 1,499	1,500- 1,999	2,000- 2,499	2,500- 2,999	3,000- 3,499	3,500 and over	Not stated		
All babies notified	Total²	a	6,983	168	195	291	554	1,251	1,829	1,792	854
	Live born	b	6,624	80	149	244	524	1,229	1,811	1,780	790
	Stillborn	c	332	87	46	46	29	19	12	7	54
Babies with a mention of:											
Central nervous system anomalies		a	356	41	29	43	43	64	54	35	39
		b	260	10	16	23	36	58	50	32	29
		c	95	31	13	20	7	6	4	2	10
Anencephalus		a	33	5	5	9	2	5	3	2	1
		b	17	1	3	5	1	3	3	-	-
		c	16	4	2	4	1	2	-	2	1
All spina bifida		a	81	10	4	10	11	14	15	8	5
		b	57	1	2	1	10	14	15	7	4
		c	23	9	2	9	1	-	-	-	1
Eye		a	90	2	1	1	6	14	26	22	18
		b	88	1	1	1	6	14	26	21	18
		c	1	1	-	-	-	-	-	-	-
Cleft lip and palate		a	526	15	9	20	34	92	160	162	32
		b	509	9	6	17	34	92	158	162	30
		c	15	5	3	3	-	-	1	-	2
Other face, ear and neck		a	235	6	4	6	16	48	73	70	10
		b	226	4	2	4	16	48	73	70	9
		c	9	2	2	2	-	-	-	-	1
Heart and circulatory		a	1,322	38	57	56	103	222	252	264	319
		b	1,261	23	48	53	101	216	251	262	305
		c	56	15	9	3	2	6	-	2	10
Respiratory		a	150	15	13	13	15	20	24	33	17
		b	133	10	9	11	12	19	24	33	15
		c	17	5	4	2	3	1	-	-	2
Alimentary		a	428	11	15	27	55	77	92	105	46
		b	414	11	13	23	53	76	90	105	43
		c	14	-	2	4	2	1	2	-	3
Genital organs		a	605	11	12	29	42	105	184	176	39
		b	592	10	10	28	41	103	184	174	38
		c	9	1	2	1	1	-	-	-	1
Urinary system		a	783	12	20	29	55	128	209	241	81
		b	745	7	16	21	49	127	207	241	73
		c	35	5	4	7	6	1	1	-	7
Musculoskeletal		a	2,016	38	46	89	177	406	575	525	144
		b	1,922	15	35	75	173	400	568	521	130
		c	84	23	11	14	3	4	4	2	12
Skin and integument		a	271	1	1	6	13	44	89	89	28
		b	270	1	1	5	13	44	89	89	28
		c	1	-	-	1	-	-	-	-	-
Chromosomal anomalies		a	596	24	17	42	71	114	113	76	128
		b	521	10	13	29	65	107	110	75	111
		c	75	14	4	13	6	7	3	1	17
Down syndrome		a	374	5	6	18	41	94	85	55	68
		b	350	3	6	15	38	88	84	55	60
		c	24	2	-	3	3	6	1	-	8
Endocrine and metabolic disorders		a	178	9	3	5	9	41	50	29	31
		b	171	4	2	5	9	41	50	29	31
		c	7	5	1	-	-	-	-	-	-
Congenital infections		a	17	2	3	3	1	1	2	1	4
		b	12	1	1	3	1	1	2	1	2
		c	5	1	2	-	-	-	-	-	2
Other congenital anomalies not elsewhere classified		a	618	24	33	31	65	106	140	146	62
		b	554	13	23	24	58	104	137	146	46
		c	60	11	10	7	7	2	3	-	12
Total live and stillbirths		a	624,816	4,412	5,140	9,992	30,379	107,373	221,765	244,753	1,002
Live born		b	621,251	3,221	4,697	9,631	29,982	106,967	221,361	244,474	918
Stillborn		c	3,565	1,191	443	361	397	406	404	279	84

1 Total includes under 500 grammes although these are not included in the Under 1,000 column.

2 Total includes unknown whether live or still.

Table 7b Live and stillborn babies notified - rates per 10,000 live/stillbirths: birthweight by condition, 2003

England and Wales

Condition		Birthweight (grammes)									
		Total ¹	Under 1,000	1,000-1,499	1,500-1,999	2,000-2,499	2,500-2,999	3,000-3,499	3,500 and over	Not stated	
All babies notified	Live born	a	106.6	248.4	317.2	253.3	174.8	114.9	81.8	72.8	8,605.7
	Stillborn	b	931.3	730.5	1,038.4	1,274.2	730.5	468.0	297.0	250.9	6,428.6
Babies with a mention of:											
Central nervous system anomalies		a	4.2	31.0	34.1	23.9	12.0	5.4	2.3	1.3	315.9
		b	266.5	260.3	293.5	554.0	176.3	147.8	99.0	71.7	1,190.5
Anencephalus		a	0.3	3.1	6.4	5.2	0.3	0.3	0.1	-	-
		b	44.9	33.6	45.1	110.8	25.2	49.3	-	71.7	119.0
All spina bifida		a	0.9	3.1	4.3	1.0	3.3	1.3	0.7	0.3	43.6
		b	64.5	75.6	45.1	249.3	25.2	-	-	-	119.0
Eye		a	1.4	3.1	2.1	1.0	2.0	1.3	1.2	0.9	196.1
		b	2.8	8.4	-	-	-	-	-	-	-
Cleft lip and palate		a	8.2	27.9	12.8	17.7	11.3	8.6	7.1	6.6	326.8
		b	42.1	42.0	67.7	83.1	-	-	24.8	-	238.1
Other face, ear and neck		a	3.6	12.4	4.3	4.2	5.3	4.5	3.3	2.9	98.0
		b	25.2	16.8	45.1	55.4	-	-	-	-	119.0
Heart and circulatory		a	20.3	71.4	102.2	55.0	33.7	20.2	11.3	10.7	3,322.4
		b	157.1	125.9	203.2	83.1	50.4	147.8	-	71.7	1,190.5
Respiratory		a	2.1	31.0	19.2	11.4	4.0	1.8	1.1	1.3	163.4
		b	47.7	42.0	90.3	55.4	75.6	24.6	-	-	238.1
Alimentary		a	6.7	34.2	27.7	23.9	17.7	7.1	4.1	4.3	468.4
		b	39.3	-	45.1	110.8	50.4	24.6	49.5	-	357.1
Genital organs		a	9.5	31.0	21.3	29.1	13.7	9.6	8.3	7.1	413.9
		b	25.2	8.4	45.1	27.7	25.2	-	-	-	119.0
Urinary system		a	12.0	21.7	34.1	21.8	16.3	11.9	9.4	9.9	795.2
		b	98.2	42.0	90.3	193.9	151.1	24.6	24.8	-	833.3
Musculoskeletal		a	30.9	46.6	74.5	77.9	57.7	37.4	25.7	21.3	1,416.1
		b	235.6	193.1	248.3	387.8	75.6	98.5	99.0	71.7	1,428.6
Skin and integument		a	4.3	3.1	2.1	5.2	4.3	4.1	4.0	3.6	305.0
		b	2.8	-	-	27.7	-	-	-	-	-
Chromosomal anomalies		a	8.4	31.0	27.7	30.1	21.7	10.0	5.0	3.1	1,209.2
		b	210.4	117.5	90.3	360.1	151.1	172.4	74.3	35.8	2,023.8
Down syndrome		a	5.6	9.3	12.8	15.6	12.7	8.2	3.8	2.2	653.6
		b	67.3	16.8	-	83.1	75.6	147.8	24.8	-	952.4
Endocrine and metabolic disorders		a	2.8	12.4	4.3	5.2	3.0	3.8	2.3	1.2	337.7
		b	19.6	42.0	22.6	-	-	-	-	-	-
Congenital infections		a	0.2	3.1	2.1	3.1	0.3	0.1	0.1	0.0	21.8
		b	14.0	8.4	45.1	-	-	-	-	-	238.1
Other congenital anomalies not elsewhere classified		a	8.9	40.4	49.0	24.9	19.3	9.7	6.2	6.0	501.1
		b	168.3	92.4	225.7	193.9	176.3	49.3	74.3	-	1,428.6

1 Total includes under 500 grammes although these are not included in the under 1,000 column.

**Table 8a All babies notified - numbers:
age of mother by condition, 2003**

England and Wales

Condition	Age of mother							
	Total ¹	Under 20	20-24	25-29	30-34	35-39	40-44	45 and over
All babies notified	6,983	587	1,363	1,574	1,860	1,075	286	13
Babies with a mention of:								
Central nervous system anomalies	356	32	77	88	84	50	19	1
Anencephalus	33	4	5	10	9	2	3	-
All spina bifida	81	10	17	30	12	6	5	-
Eye	90	13	22	15	24	14	1	-
Cleft lip and palate	526	39	104	132	155	68	14	1
Other face, ear and neck	235	24	41	49	82	29	9	-
Heart and circulatory	1,322	89	258	274	336	219	67	2
Respiratory	150	12	33	34	33	25	7	-
Alimentary	428	33	68	99	120	59	22	1
Genital organs	605	47	106	149	160	105	20	-
Urinary system	783	65	149	207	196	114	39	3
Musculoskeletal	2,016	224	450	437	527	272	60	2
Skin and integument	271	24	61	59	74	38	10	-
Chromosomal anomalies	596	21	67	89	147	169	75	5
Down syndrome	374	6	36	50	99	115	53	4
Endocrine and metabolic disorders	178	15	23	55	38	29	3	-
Congenital infections	17	2	3	5	5	2	-	-
Other congenital anomalies not elsewhere classified	618	53	130	138	168	96	16	1
Total live and stillbirths	624,816	44,535	117,190	157,781	188,192	97,892	18,344	882

1 Totals include age not stated

**Table 8b All babies notified - rates per 10,000 total births:
age of mother by condition, 2003**

England and Wales

Condition	Age of mother							
	Total ¹	Under 20	20-24	25-29	30-34	35-39	40-44	45 and over
All babies notified	111.8	131.8	116.3	99.8	98.8	109.8	155.9	147.4
Babies with a mention of:								
Central nervous system anomalies	5.7	7.2	6.6	5.6	4.5	5.1	10.4	11.3
Anencephalus	0.5	0.9	0.4	0.6	0.5	0.2	1.6	-
All spina bifida	1.3	2.2	1.5	1.9	0.6	0.6	2.7	-
Eye	1.4	2.9	1.9	1.0	1.3	1.4	0.5	-
Cleft lip and palate	8.4	8.8	8.9	8.4	8.2	6.9	7.6	11.3
Other face, ear and neck	3.8	5.4	3.5	3.1	4.4	3.0	4.9	-
Heart and circulatory	21.2	20.0	22.0	17.4	17.9	22.4	36.5	22.7
Respiratory	2.4	2.7	2.8	2.2	1.8	2.6	3.8	-
Alimentary	6.9	7.4	5.8	6.3	6.4	6.0	12.0	11.3
Genital organs	9.7	10.6	9.0	9.4	8.5	10.7	10.9	-
Urinary system	12.5	14.6	12.7	13.1	10.4	11.6	21.3	34.0
Musculoskeletal	32.3	50.3	38.4	27.7	28.0	27.8	32.7	22.7
Skin and integument	4.3	5.4	5.2	3.7	3.9	3.9	5.5	-
Chromosomal anomalies	9.5	4.7	5.7	5.6	7.8	17.3	40.9	56.7
Down syndrome	6.0	1.3	3.1	3.2	5.3	11.7	28.9	45.4
Endocrine and metabolic disorders	2.8	3.4	2.0	3.5	2.0	3.0	1.6	-
Congenital infections	0.3	0.4	0.3	0.3	0.3	0.2	-	-
Other congenital anomalies not elsewhere classified	9.9	11.9	11.1	8.7	8.9	9.8	8.7	11.3

1 Totals include age not stated

Table 9 Strategic Health Authorities in England and Health Authorities in Wales which have shown an increase of numbers of a particular anomaly compared with the average notification for that area and anomaly during a previous period, 2003

ONS Monitoring group ¹	Anomaly	Strategic Health Authority	Quarter
A	Central Nervous System	Hampshire and Isle of Wight Dorset and Somerset	September September
0B	Spina bifida	Essex South West London	June December
0C	Congenital hydrocephalus	Kent and Medway	September
0F	Other or unspecified anomalies of the nervous system	Morgannwg South West Peninsula Hampshire and Isle of Wight	March June, December December
B	Eye and Ear anomalies	Avon, Gloucestershire and Wiltshire Leicestershire, Northamptonshire and Rutland South West Peninsula	September September December
1B	Congenital lens anomalies	West Yorkshire	December
1D	Ear anomalies	Leicestershire, Northamptonshire and Rutland Avon, Gloucestershire and Wiltshire	June December
C	Alimentary system	Gwent County Durham and Tees Valley South West Peninsula	March September, December December
2C	Cleft palate with cleft lip	North West London	September
2D	Tracheo-oesophageal fistula and stenosis	South West Peninsula	December
D	Cardiovascular system	Northumberland, Tyne & Wear Hampshire and Isle of Wight South West Peninsula Bro Taf North Wales County Durham and Tees Valley Gwent Morgannwg Cumbria and Lancashire Thames Valley Dorset and Somerset South Yorkshire Avon, Gloucestershire and Wiltshire	March, June, September, December March, September, December March, June, September, December March, June, September, December March, June, September, December June, September, December June, September, December June September, December September September September, December December
3A	Tetralogy of Fallot	Northumberland, Tyne & Wear	June
3B	Ventricular septal defect	Hampshire and Isle of Wight South West Peninsula Northumberland, Tyne & Wear County Durham and Tees Valley Cumbria and Lancashire Bro Taf South Yorkshire Gwent North Wales	March, September March, September June, September, December June, September, December June, December June, September September September December
3C	Other septal defects	Northumberland, Tyne & Wear Gwent North Wales County Durham and Tees Valley South West Peninsula Morgannwg South West London Cumbria and Lancashire South Yorkshire Bro Taf	March, June, September, December March, June March, June, September, December June, December June, December September December December December December

1 See Appendix D

Table 9 2003 Series MB3 no.18

Table 9 - continued

			England and Wales
ONS Monitoring group ¹	Anomaly	Strategic Health Authority	Quarter
3E	Patent ductus arteriosus	South West Peninsula Morgannwg Northumberland, Tyne & Wear Cumbria and Lancashire South Yorkshire	June June December December December
3G	Other congenital cardiac or great vessel anomalies	Northumberland, Tyne & Wear Hampshire and Isle of Wight Dorset and Somerset Bro Taf County Durham and Tees Valley South West Peninsula North Wales Thames Valley Avon, Gloucestershire and Wiltshire Gwent	March, June, September, December March, June, September, December March March, September June, September, December June, December June, September, December September December December
E	Respiratory system	South West London Thames Valley Avon, Gloucestershire and Wiltshire North Wales South West Peninsula	June September September September December
F	Urogenital system	Morgannwg County Durham and Tees Valley Thames Valley South West Peninsula Dorset and Somerset North Wales North West London South West London Northumberland, Tyne & Wear	March, September June June June, September, December June June, September September September September
5A	Hypospadias/epispadias	North Wales	September
5B	Other anomalies of the male external genitalia	North West London South West Peninsula	September, December September
5C	Anomalies of the female genitalia	County Durham and Tees Valley	June
5E	Renal agenesis	County Durham and Tees Valley Dorset and Somerset	June September
5H	Cystic kidney disease	Northumberland, Tyne & Wear	September
5J	Congenital obstructive defects of renal pelvis or anomalies of ureter	Birmingham and the Black Country Morgannwg Essex Northumberland, Tyne & Wear County Durham and Tees Valley South West Peninsula Dorset and Somerset South Yorkshire Leicestershire, Northamptonshire and Rutland North Wales Thames Valley Hampshire and Isle of Wight	March March, June June June, September, December June, September, December June, September, December June, December June June, December June December December
G	Limbs	Kent and Medway Dorset and Somerset Morgannwg	June June June
6B	Limb reductions	South West Peninsula Dyfed Powys	September September
6C	Deformities of feet	Kent and Medway	September

Table 9 - continued

England and Wales

ONS Monitoring group ¹	Anomaly	Strategic Health Authority	Quarter
H	Other musculoskeletal	Morgannwg South West Peninsula Northumberland, Tyne & Wear County Durham and Tees Valley Bro Taf	March, June June, September September September September
7B	Anomalies of the face, skull or neck	Morgannwg South West Peninsula North Wales	March June September
7D	Osteodystrophy or chondrodystrophy	County Durham and Tees Valley North and East Yorkshire and Northern Lincolnshire Bro Taf	June June September
7F	Anomalies of the abdominal wall (hernias)	Essex	September
7G	Exomphalos	County Durham and Tees Valley	June
7H	Anomalies of the lips, tongue and pharynx	Morgannwg South West London South West Peninsula Avon, Gloucestershire and Wiltshire	June September, December September, December December
7K	Congenital diaphragmatic hernia	Bro Taf	September
7L	Gastroschisis	Northumberland, Tyne & Wear North Wales County Durham and Tees Valley Dyfed Powys	June September December December
7P	Other anomalies of face & neck	North Central London County Durham and Tees Valley South West Peninsula	June June June
I	Skin and Integument	Kent and Medway Essex Greater Manchester Avon, Gloucestershire and Wiltshire South West Peninsula Birmingham and the Black Country	March June, December June September December December
9A	Congenital neoplasms (other than benign skin)	Hampshire and Isle of Wight	September
9B	Endocrine and metabolic disorders	North and East Yorkshire and Northern Lincolnshire Northumberland, Tyne & Wear County Durham and Tees Valley Morgannwg South West Peninsula Dorset and Somerset North Wales	March June September, December September December December December
9C	Trisomy 21 - Down syndrome	Hampshire and Isle of Wight	March, December
9D	Other chromosomal anomalies	Dorset and Somerset County Durham and Tees Valley Hampshire and Isle of Wight South West Peninsula	March June, September June, December September

Appendix A - List of conditions for exclusion

Reports of cases with the following anomalies are not to be transmitted to ONS unless occurring in combination with other anomalies:

Name of condition

Spina bifida occulta uncomplicated
Stenosis or stricture of lacrimal duct
Minor or unspecified anomaly of auricle
Minor or unspecified anomaly of nose
Minor or unspecified deformity of face
Minor anomaly of nipple, accessory or ectopic nipple
Congenital umbilical hernia, inguinal or para umbilical
Undescended testicle and unspecified ectopic testis
Congenital hydrocele or hydrocele of testis
Phimosis
Hypospadias when the meatus lies before the coronary sulcus
Abnormal palmar crease
Skin tag with surface less than 4 cm²: skin tag, naevus, angioma, haemangioma, glomus tumour, lymphangioma, birthmark
Clicking hip
Clubfoot of postural origin
Minor or unspecified anomalies of toe such as hallux valgus, hallux varus or "orteuil en marteau"
Functional or unspecified cardiac murmur
Absence or hypoplasia of umbilical artery, single umbilical artery

With acknowledgement to EUROCAT for permission to reproduce their exclusion list.

Appendix C - List of ICD10 codes included within anomaly groups

Anomaly Group	Congenital Anomaly description	ICD10 codes used for data on the National Congenital Anomaly System
Central nervous system	All Anencephalus All spina bifida Encephalocele Congenital hydrocephalus	G04.9, G12.0, G12.9, G40.9, G60.0, G62.9, G70.9, G71.1, G71.2, G80.9, G83.2, G93.0, G93.1, Q00-Q07 Q00 Q05 Q01 Q03
Eye	All Anophthalmia	H18.5, H50.0, H50.8, H54.0, H54.4, H55, Q10-Q15 Q11.0-Q11.2
Cleft lip and palate	All Cleft of lip only Cleft of palate only Cleft of lip and palate	Q35-Q37 Q36 Q35 Q37
Other face, ear and neck	All	K07, Q16-Q18, R22.0, R22.1
Heart and circulatory	All	I45.6, I47.1, I49.1, M30.3, Q20-Q28
Respiratory	All	Q30-Q34
Alimentary	All Tracheo-oesophageal fistula Oesophageal atresia Atresia/stenosis large intestine, rectum or anal canal	K74.0, K80.2, Q38-Q45, R14 Q39.1-Q39.3 Q39.0 Q42
Genital organs	All Hypospadias	N47, N89.8, Q50-Q56 Q54
Urinary system	All Renal agenesis/dysgenesis Epispadias	N13.9, N25.8, Q60-Q64 Q60 Q64.0
Musculoskeletal	All Dislocation of the hip Deformities of feet Polydactyly Syndactyly Limb reductions Diaphragmatic defects Exomphalos Gastroschisis	K40-K46, M21.2, M89.8, P94, Q65-Q79 Q65.0-Q65.6 Q66 Q69 Q70 Q71-Q73 Q79.0-Q79.1 Q79.2 Q79.3
Skin and integument	All	D18.0, D22.3, D22.6, D22.7, D22.9, D23.6, D23.7, L53.9, L81.3, Q80-Q84
Chromosomal anomalies	All Down syndrome	Q90-Q99 Q90
Endocrine and metabolic disorders	All	D66, D67, D68.0, D68.2, D69.4, D81.9, D82.1, E03.0, E03.1, E07, E23-E25, E27-E30, E32, E34, E70-E80, E83-E85, E88, E90
Congenital infections	All	A50.0, P29.4, P35, P37, P52.5
Other anomalies not elsewhere classified	All	B27.0, C49.2, C69.2, C71.9, C74.9, D13.9, D14.3, D15.1, D16.6, D17.2, D17.9, D18.1, D36.1, D37.0, D41.0, D43.2, D47.1, D48.0, D48.7, D48.9, D55.0, D56.3, D57.1, D57.3, D58.0, F79, I42.4, K21.9, L05.9, P02.6, P10-P15, P20-P29, (excl P29.4), P36, P50, P61, P70-P78, P80-P83, P90-P93, P95, P96, Q85-Q89, R16.0, R16.2, R18, R19.0, R22.9

Appendix D - ONS Monitoring groups and ICD10 equivalent codes

		ICD10 Codes
Central Nervous System	A	
0A	Anencephalus	Q00.0-Q00.2
0B	Spina bifida	Q05.0-Q05.9
0C	Congenital hydrocephalus	Q03.0-Q03.9
0E	Encephalocele	Q01.0-Q01.9
0F	Other	G04.9, G12.0, G12.9, G40.9, G60.0, G62.9, G70.9, G71.1, G71.2, G80.9, G83.2, G93.0, G93.1, Q02, Q04, Q06, Q07
Eye and Ear	B	
1A	Cystic eyeball	Q11.0
1B	Congenital lens anomalies	Q12.0-Q12.9
1C	Other & unspecified eye anomalies	Q10, Q11.3, Q13-Q15, H18.5, H 50.0, H50.8, H54.0, H54.4, H55
1D	Ear, all	Q16, Q17
1E	Other anophthalmos	Q11.1-Q11.2
Alimentary System	C	
2A	Cleft of palate only	Q35
2B	Cleft of lip only	Q36
2C	Cleft palate with cleft lip	Q37
2D	Tracheo-oesophageal fistula/stenosis	Q39.0-Q39.3
2E	Atresia/stenosis of large intestine, rectum & anal canal	Q42.0-Q42.9
2F	Other or unspecified anomalies of alimentary system	K74.0, K80.2, Q39.4-Q39.9, Q40.0, Q40.2-Q40.9, Q41, Q43-Q45, R14
Cardiovascular System	D	
3A	Tetralogy of Fallot	Q21.3
3B	Ventricular septal defect	Q21.0
3C	Other septal defects	Q21.1-Q21.2, Q21.4-Q21.9
3E	Patent ductus arteriosus	Q25.0
3F	Anomalies of the umbilical artery	Q27.0
3G	Other congenital cardiac or great vessel anomalies	I45.6, I47.1, I49.1, M30.3, Q20, Q22-Q24, Q25.1-Q25.9, Q26
3H	Congenital anomalies of other vessels	Q27.1-Q27.9, Q28
Respiratory System	E	
4A	Congenital anomalies of the respiratory system	Q30-Q34
Urogenital System	F	
5A	Hypospadias/epispadias	Q54, Q64.0
5B	Other anomalies of the male genitalia	N47, Q53, Q55
5C	Anomalies of the female genitalia	N89.8, Q50-Q52
5D	Bladder exstrophy	Q64.1
5E	Renal agenesis	Q60
5F	Other or unspecified defects of urogenital system	N25.8, Q63, Q64.2-Q64.9
5G	Indeterminate sex	Q56
5H	Cystic kidney disease	Q61
5J	Congenital obstructive defects of renal pelvis or anomalies of ureter	N13.9, Q62
Limbs	G	
6A	Polydactyly/syndactyly	Q69, Q70
6B	Limb reductions	Q71-Q73
6C	Deformities of feet	Q66
6D	Dislocation of hip	Q65.0-Q65.6
6E	Other limb or limb girdles	M21.2, Q65.8, Q65.9, Q68.1-Q68.5, Q74
Other Musculoskeletal	H	
7A	Other anomalies of the diaphragm	Q79.1
7B	Anomalies of the face, skull or neck	Q67-Q68.0, Q75, R22.0
7C	Other musculoskeletal anomalies of the thorax and neck	Q76.8, Q76.9
7D	Osteodystrophy or chondrodystrophy	Q77, Q78
7E	Other or unspecified anomalies of the musculoskeletal system	M89.8, P94, Q68.8, Q76.0-Q76.7, Q79.5, Q79.9
7F	Anomalies of the abdominal wall (hernias)	K40-K46
7G	Exomphalos	Q79.2
7H	Anomalies of the lips, tongue and pharynx	Q18.4-Q18.7, Q38
7J	Congenital hiatus hernia	Q40.1
7K	Congenital diaphragmatic hernia	Q79.0
7L	Gastroschisis	Q79.3
7M	Prune belly syndrome	Q79.4
7N	Branchial cleft, auricular sinus	Q18.0-Q18.2
7P	Other anomalies of face & neck	K07, Q18.3, Q18.8, Q18.9, R22.0

Skin and Integument 8C	I Anomalies of the skin or integument	D18.0, D22.3, D22.6, D22.7, D22.9, D23.6, D23.7, L53.9, L81.3, Q80-Q84
Other Anomalies 9A	K Congenital neoplasms (other than benign skin)	C49.2, C69.2, C71.9, C74.9, D13.9, D14.3, D15.1, D16.6, D17.2, D17.9, D36.1, D37.0, D41.0, D43.2, D47.1, D48.0, D48.7, D48.9
9B	Endocrine and metabolic disorders	D66, D67, D68.0, D68.2, D69.4, D81.9, D82.1, E03.0, E03.1, E07, E23-E25, E27-E30, E32, E34, E70-E80, E83-E85, E88, E90
9C 9D 9E	Trisomy 21 - Down syndrome Other chromosomal anomalies Other and unspecified congenital anomalies	Q90 Q91-Q99 B27.0, D18.1, D55.0, D56.3, D57.1, D57.3, D58.0, F79, I42.4, K21.9, L05.9, P02.6, P10-P15, P20- P29 (excl P29.4), P36, P50, P61, P70-P78, P80-P83, P90-P93, P95, P96, Q85-Q89, R16.0, R16.2, R18, R19.0, R22.9
9H	Congenital infections	A50.0, P29.4, P35, P37, P52.5