

SDR 114/2012

24 July 2012

## Births in Wales 2001 - 2011: Data from the National Community Child Health Database

The National Community Child Health Database (NCCHD) is Wales' national community child health database and consists of anonymised records for all children born, resident or treated in Wales and born after 1987. It brings together data from local Child Health System databases which are held by Local Health Boards and used by them to administer child immunisation and health surveillance programmes.

This annual release covers data items which are recorded at birth. It is not meant to replace Office for National Statistics birth registration statistics which should be used for basic births statistics for Wales. For further explanation of the Welsh Government's publication of birth statistics see the notes pages.

The release provides statistics on where and when babies were born, their birth weight, whether they were pre-term and about their mothers - their age and whether the babies were breastfed. It aims to provide an overview of Welsh births and to inform the delivery of maternity services and strategy. There is now 10 years worth of data available, resulting in some changes to the format of this release to reflect this, including comparisons in the 10 year time period. The analyses are for live births only and do not include stillbirths. The release profiles live births to Welsh residents. However births occurring **in** Wales (whether to Welsh or non Welsh residents) can also be counted and these are shown by maternity unit in a StatsWales table. Detailed data are provided in Tables 1-6 and on



([www.statswales.wales.gov.uk](http://www.statswales.wales.gov.uk)).

### Key Facts:

- The NCCHD recorded 35,682 live births in 2011 to Welsh residents, an increase of 16% on the number of births in 2001 (30,690).
- Mother's age: 6.9% of all live births in 2011 are recorded as being born to mothers aged under 20, compared to 10.3% in 2001.
- Gestation: 7.1% of live births were recorded as being born at less than 37 weeks gestational age, this proportion has fluctuated between 7% and 8% since 2001 (7.6%)
- Birth weight: 6.7% of live births were recorded as having a low birth weight (less than 2,500g). This proportion has slowly decreased over the past ten years (7.3% in 2001)

For more on data quality and the content of the NCCHD, see notes at the end of this release, or view the [Quality Report](#).

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**Next update:** July 2013 (provisional)

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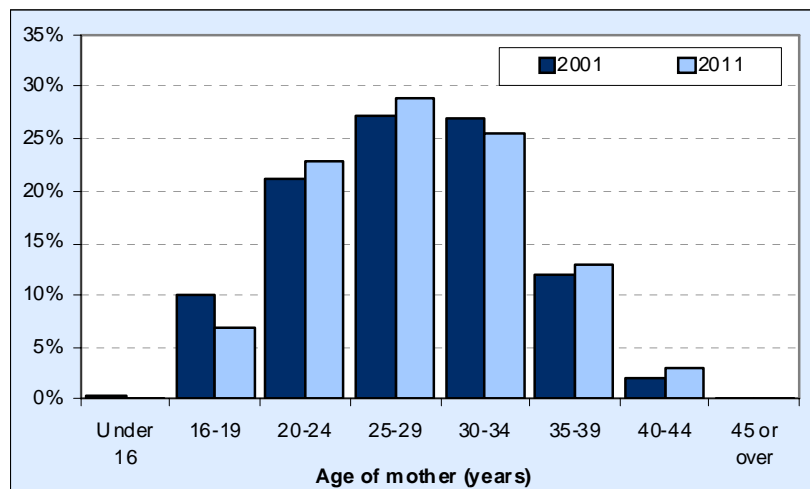
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## Time Series - Live births to Welsh residents 2001- 2011

All the base data for these charts are available on [STATS WALES](#)

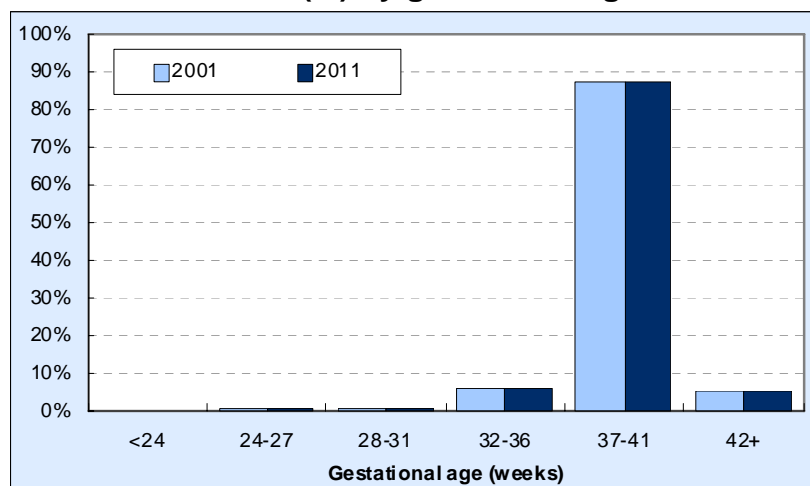
**Chart 1: Live births (%) by age of mother**



There is well accepted evidence that teenage pregnancy is associated with poor health and social outcomes for both the mother and the child. Chart 1 indicates a fall in proportionate terms in numbers of births to teenage mothers since 2001. However the number of births to older mothers rose over the last 10 years, see also Table 6 (page 13).

The percentages are of the total live births less births with no stated mother's age. These are very few however with only 4 births having no mother's age stated in 2011.

**Chart 2: Live births (%) by gestational age<sup>1</sup>.**

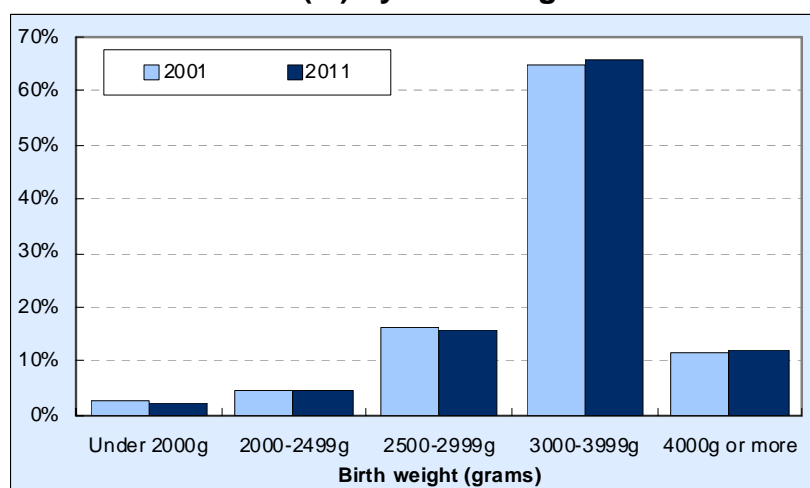


It is known that babies born prematurely (before 37 weeks of pregnancy) may have a higher risk of immediate or longer-term health problems. There has been no notable change in the distribution of births by gestational age at birth over the last 10 years. 7.1% of all live births were "pre-term", that is, at less than 37 weeks gestation. Completeness of gestation improved since 2001, with the proportion of live births with no stated gestation having fallen from 6% in 2001 to less than 1% in 2011.

Missing data excluded from percentages: 160 births had no stated gestational age; includes gestations of less than 20 weeks and more than 45 weeks.

1. Best estimate available: based on either date of last menstrual period or from an ultrasound scan.

**Chart 3: Live births (%) by birth weight**



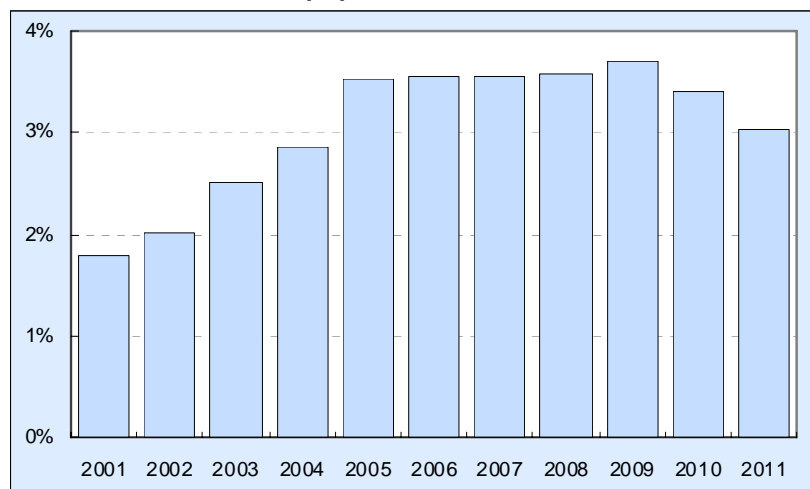
Low birth weight is associated with health risks in an infant's first year of life. Chart 3 shows that there was no notable change in the distribution of births by birth weight over the last 10 years. 6.7% of all live births were of low birth weight, that is, less than 2,500g.

Missing data excluded from percentages: 39 births had no stated birth weight; includes birth weights of less than 0.5kg or more than 6kg.

## Time Series - Live births to Welsh residents 2001- 2011

All the base data for these charts are available on 

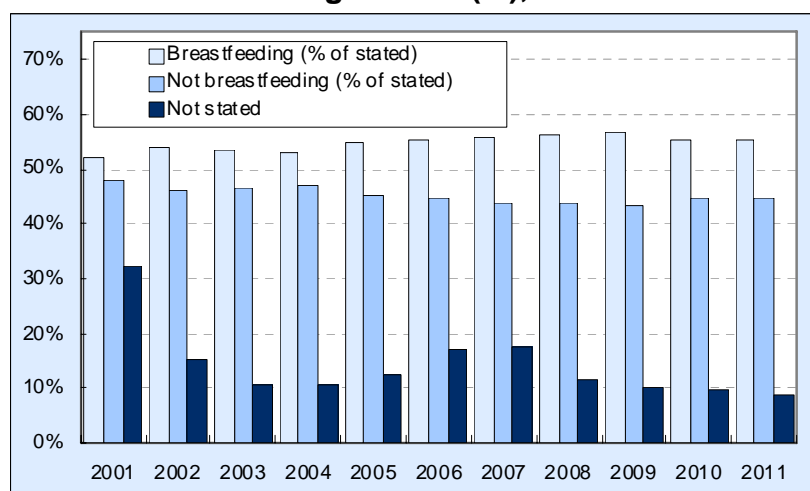
**Chart 4: Live births (%) born at home**



Health Boards in Wales are expected to provide access to a range of services for women to give birth including at home. The recent growth in the proportion of births occurring at home in Wales is shown in Chart 4, rising from around 2% in the early 2000s to almost 4% in 2009, though it fell to 3% in 2011. The number of births with place of birth not stated increased from a total of 8 in 2001 to 218 in 2011.

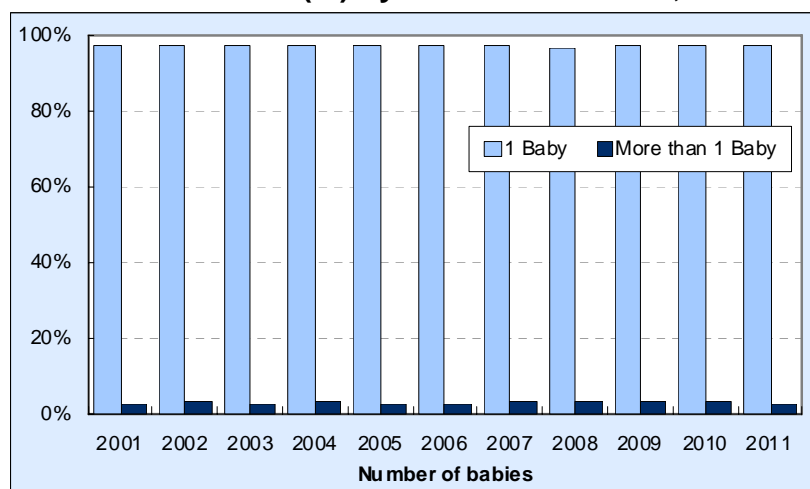
The percentages are of the total live births less births with no stated place of birth.

**Chart 5: Breastfeeding at birth (%), 2001-2011**



Breastfeeding is recognised as being of crucial importance for the health of babies and their mothers. Chart 5 shows breastfeeding data recorded on the database from 2001 to 2011. The proportion of records with no breastfeeding status recorded at birth fell from a third in 2001 to 9% in 2011, but issues with data completeness and quality remain. The percentage of breastfed babies of those with a stated breastfeeding status increased from 52% in 2001 to 56% in 2011.

**Chart 6: Live births (%) by number of babies, 2001-2011**



Giving birth to twins or triplets can be associated with increased health risks. Chart 6 shows that there was no change in the distribution of births by number of babies born over the last 10 years. Multiple births (twins, triplets or higher order multiple births) have accounted for 3% of all live births each year since 2001.

## Key characteristics / outcomes - live births to Welsh residents 2011

### Multiple births, birth weight and gestational age

All the base data for these charts are available on [STATS WALES](#)

**Chart 7: Live births (%) by number of babies: low birth weight and low gestational age**

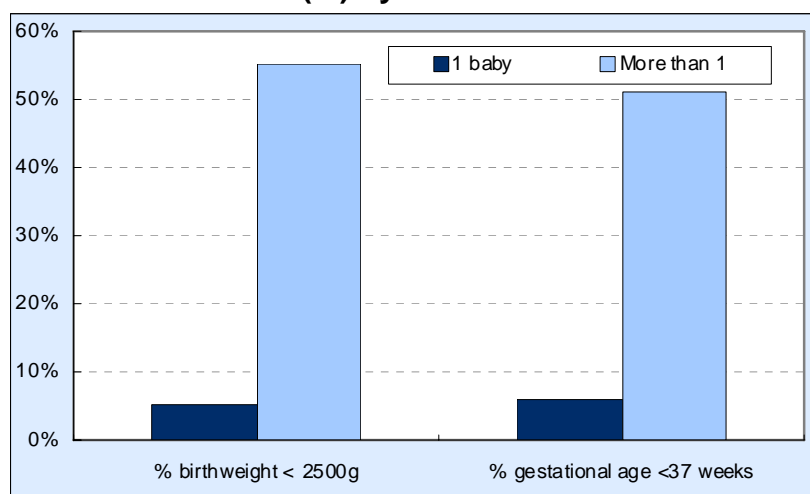


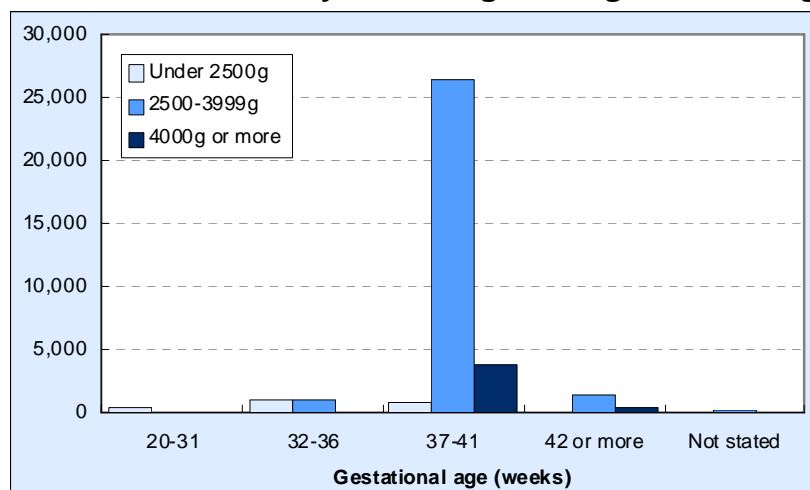
Chart 7 shows the birth weight profiles of singleton and multiple births. 5% of single births had birth weights of less than 2,500g compared to 55% of multiple births (7% of all live births).

7% of all live births were at less than 37 weeks gestation. More than half of multiples (51%) were born at less than 37 weeks, compared to just 6% of singleton births.

Missing data excluded from percentages: 39 births had no stated birth weight; includes birth weights of less than 0.5kg or more than 6kg.

160 births had no stated gestational age, includes gestations of less than 20 weeks and more than 45 weeks.

**Chart 8: Live births by birth weight and gestational age**



93% of births took place at 37 weeks gestation or more. The majority of these had a birth weight of over 2500g. However 92% of births born at gestations less than 32 weeks and 52% of those born at 32-36 weeks had low birth weights, that is, less than 2500g.

**Chart 9: Live births (%) by mother's age: low birth weight and low gestational age**

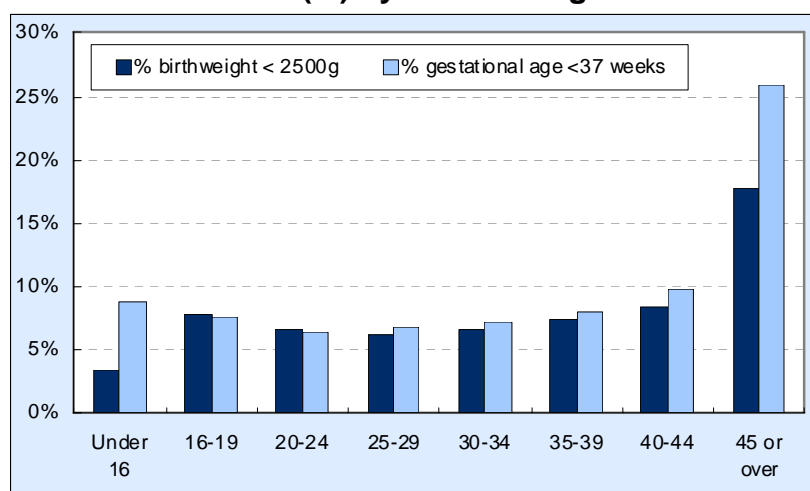


Chart 9 shows that the proportion of low birth weight live births (less than 2500g) rose for mothers aged 16 to 19 and aged 45 or over, as did the proportion of babies born at less than 37 weeks gestation.

## Key characteristics / outcomes - live births to Welsh residents 2011

### Breastfeeding at birth

All the base data for these charts are available on [STATS WALES](#)

**Chart 10: Breastfeeding at birth by mother's age**

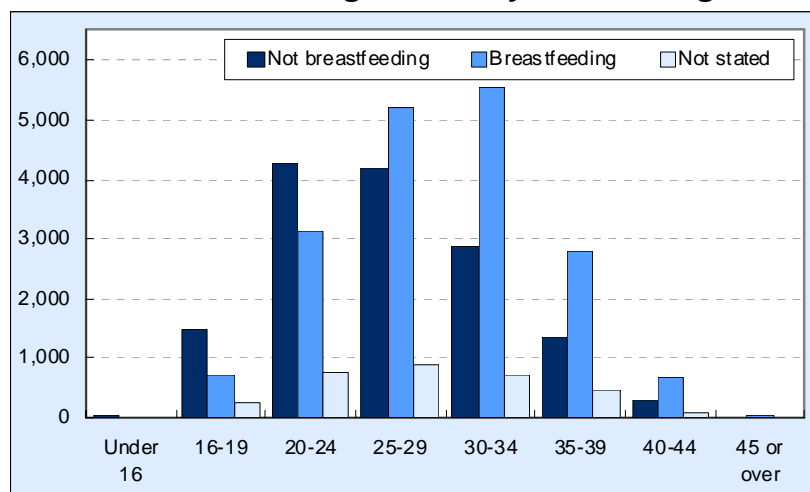


Chart 10 shows the numbers of babies who were breastfed at birth by age of mother. There is much missing data: nearly 9% of births had no recorded breastfeeding status at birth. Overall the percentage of babies breastfed at birth can be estimated as 51% (percentage of all births) or 56% (percentage of all births with known breastfeeding status). Babies of older mothers were more likely to be breastfed than those with younger mothers.

**Chart 11: Breastfeeding at birth (%) by gestational age**

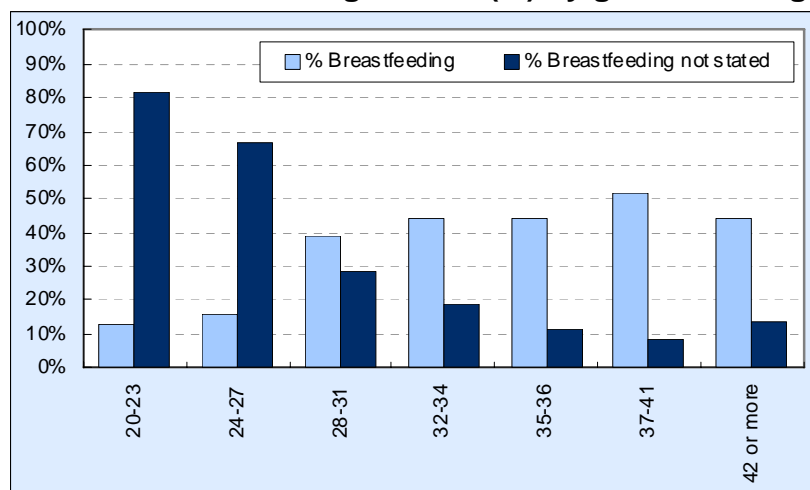


Chart 11 shows the percentage of births which were recorded as breastfed at birth by gestational age, and the proportion for which no breastfeeding status was stated for each group. Babies born at low gestational ages were more likely to have no record of breastfeeding on the database. The proportion (of births with a stated breastfeeding status) of breastfed babies was slightly lower for babies born at low gestational ages.

**Chart 12: Breastfeeding at birth (%) by birth weight**

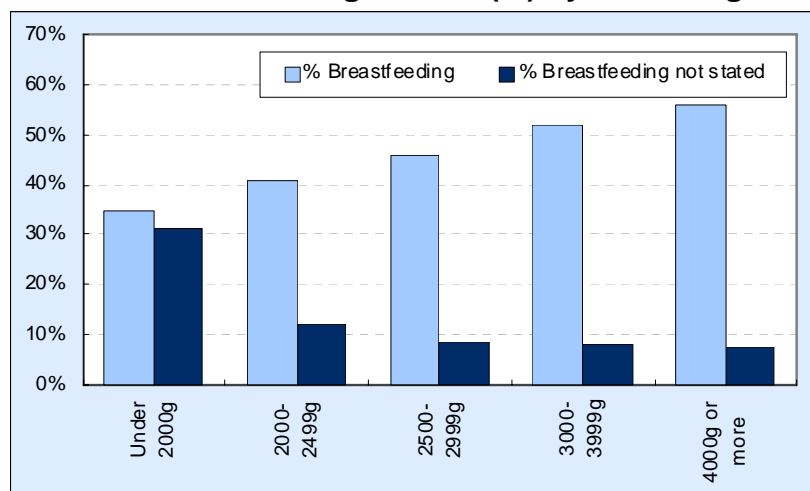


Chart 12 shows the percentage of all births which were recorded as breastfed at birth, by birth weight, as well as the proportion of the records which were missing for each group. Proportionately babies with low birth weights were more likely to have no record of breastfeeding on the database. Of the births with breastfeeding status, those with higher birth weights were more likely to be breastfed.

## Key characteristics / outcomes - live births to Welsh residents 2011

### Breastfeeding at birth

All the base data for these charts are available on 

**Chart 13: Breastfeeding at birth (%) by place of birth**

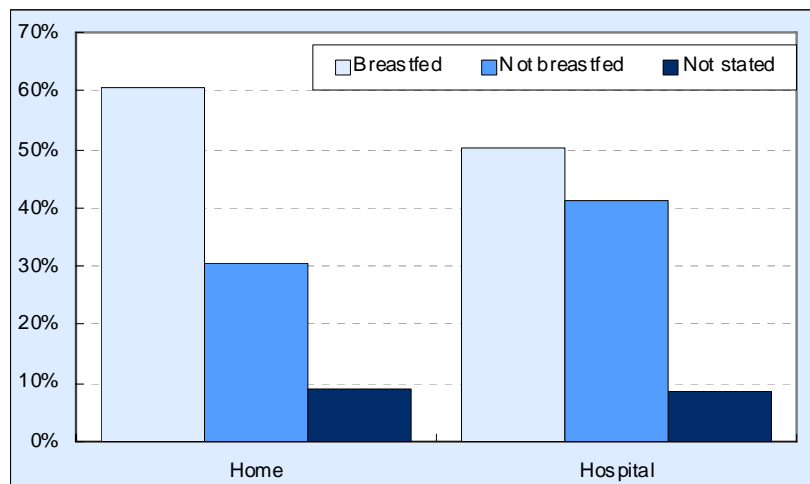
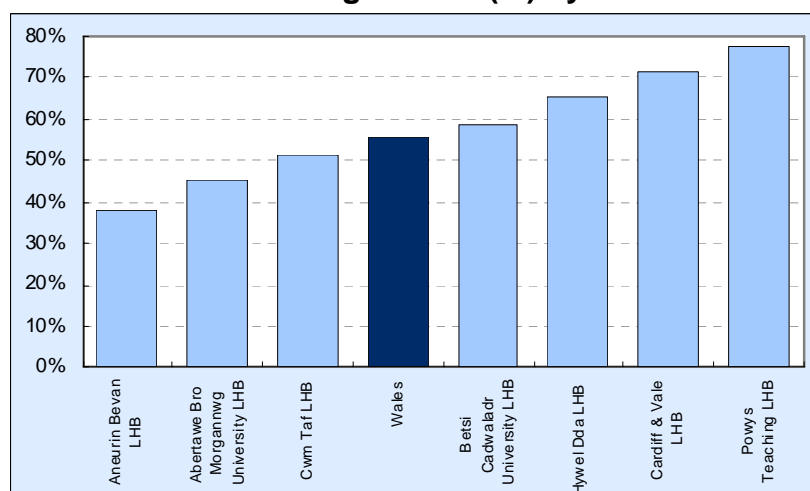


Chart 13 shows the proportion of births breastfed at birth by place of birth. Breastfeeding status was not stated for 9% of live births born at home and 9% in hospital. 60% of home births and 50% of hospital births were recorded as breastfed (66% and 55% respectively of births with a stated breastfeeding status). For 18 births the place of birth recorded was "ambulance" and 218 had no stated place of birth.

**Chart 14: Breastfeeding at birth (%) by Local Health Board**



Highest breastfeeding rates were seen for babies of women resident in Powys Teaching LHB (78%) and lowest for those in Aneurin Bevan LHB (38%). In Wales as a whole 56% of births were recorded as being breastfed at birth (of births with stated breastfeeding status). As breastfeeding status was not stated for 9% of all live births, this may have a large effect on percentages in some LHBs. No account is taken of differing LHB age distributions.

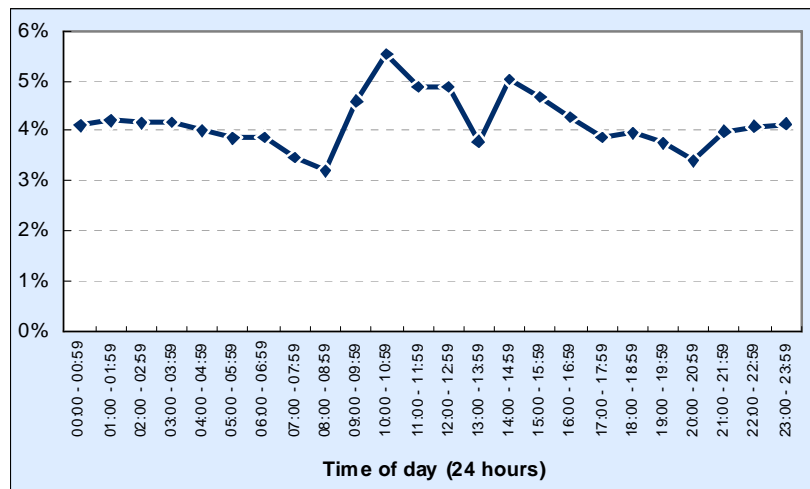


## Key characteristics / outcomes - live births to Welsh residents 2011

### Time of birth, place of birth, Apgar scores

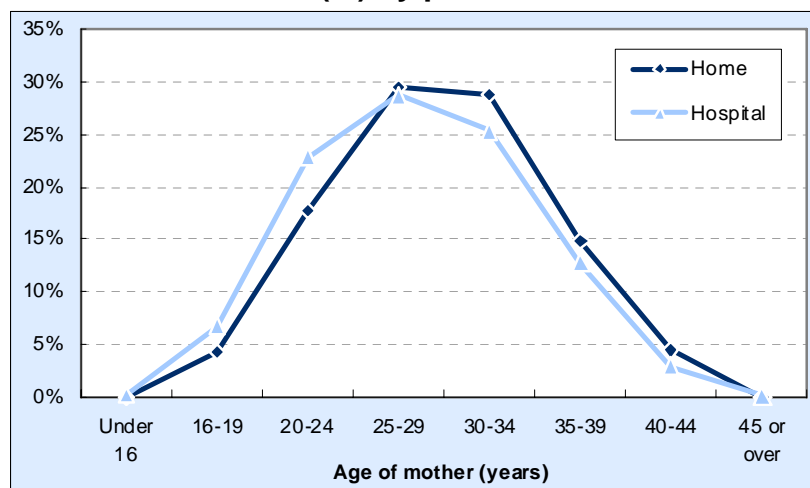
All the base data for these charts are available on 

**Chart 15: Live births (%) by time of birth**



The distribution of live births by hour of the day is shown in Chart 15. By hour, fewest births in 2011 occurred between 8am and 9am and most between 10am and 11am. There was another low point between 1pm and 2pm followed by a peak between 2pm and 3pm. 4 live births had no time of birth recorded.

**Chart 16: Live births (%) by place of birth and mother's age**

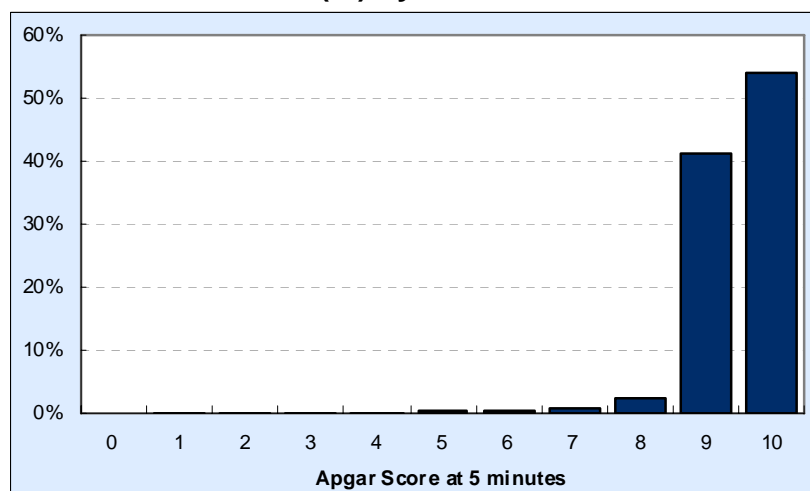


The distribution of live births by place of birth (home or hospital) is shown in Chart 16.

In 2011, 3.0% of all live births took place at home. Women giving birth at home were on average older than those giving birth in hospital.

Missing data: in addition, for 18 births, the place of birth recorded was "ambulance" and 218 had no stated place of birth.

**Chart 17: Live births (%) by APGAR score at 5 minutes**



APGAR is a quick test performed on a baby at 1 and 5 minutes after birth. The 1-minute score determines how well the baby tolerated the birthing process. The 5-minute score tells the doctor how well the baby is doing outside the mother's womb. A score of 7 or above is a sign that the newborn is in good health.

Chart 17 shows that for the majority of births (99%), babies had high Apgar scores (over 7) recorded at 5 minutes.

Missing data excluded from percentages: For 2,163 births (6% of all live births), the Apgar score at 5 minutes was recorded as "not stated".



## Key characteristics / outcomes - live births to Welsh residents 2011

### Local Health Board of residence

All the base data for these charts are available on [STATS WALES](#)

**Chart 18: Live births (%) born at home by Local Health Board**

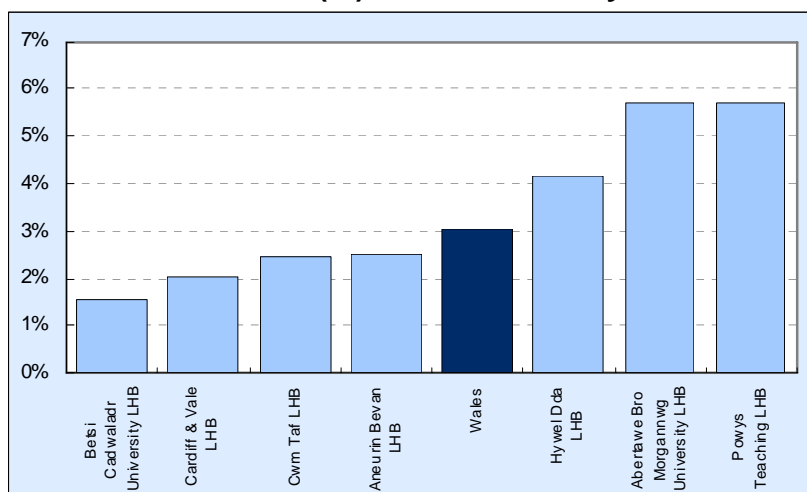


Chart 18 shows the proportion of births born at home by Local Health Board where the mother lives, ranging from under 2% in Betsi Cadwaladr University LHB to 5.7% in Powys Teaching LHB. Overall in Wales 3.0% of births were born at home.

Missing data excluded from percentages: For 18 births, the place of birth recorded was "ambulance" and 218 had "not stated" place of birth.

**Chart 19: Live births (%) to mothers aged under 20 years by Local Health Board**

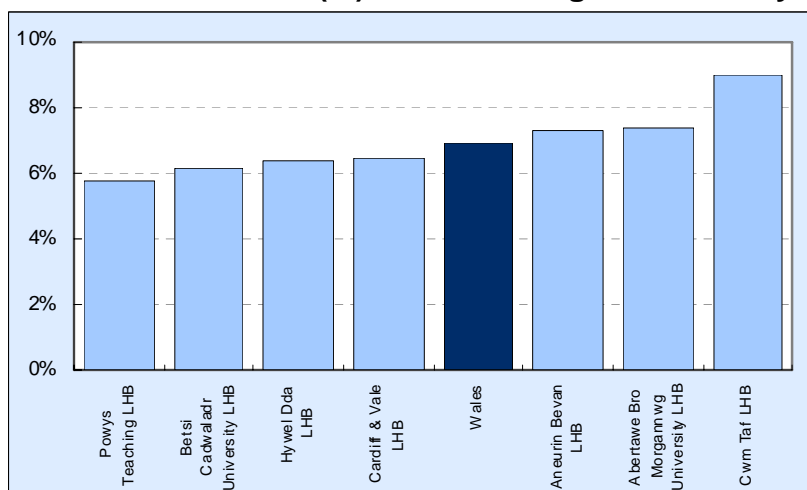


Chart 19 shows that Cwm Taf LHB had the highest percentage of births to mothers under 20 years old (9.0%) and Powys Teaching LHB the lowest (5.8%). In Wales as a whole just under 6.9% of births were recorded to mothers aged under 20.

No account is taken of differing LHB age distributions.

**Chart 20: Live births (%) less than 37 weeks gestational age by Local Health Board**

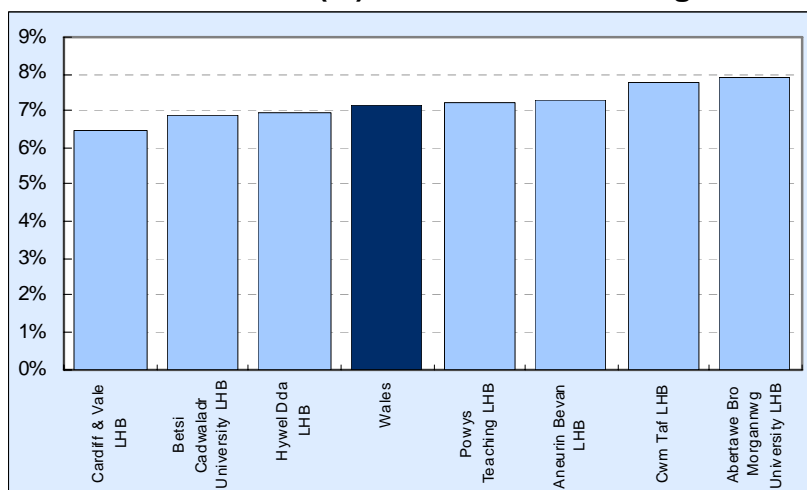


Chart 20 shows the proportion of births born at less than 37 weeks gestation by Local Health Board ranging from 6.5% in Cardiff & Vale LHB to 7.9% in Abertawe Bro Morgannwg University LHB. Overall in Wales, 7.1% of births were born before 37 weeks gestation.

No account is taken of differing LHB age distributions.

## Key characteristics / outcomes - live births to Welsh residents 2011

### Local Health Board of residence

All the base data for these charts are available on 

**Chart 21: Live births (%) less than 2,500g birth weight by Local Health Board**

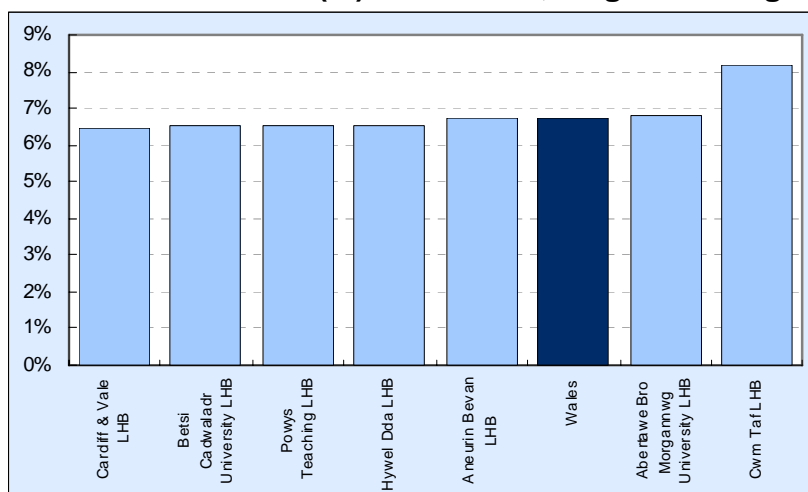


Chart 21 shows the proportion of live births weighing less than 2,500g at birth by Local Health Board of residence. The proportions varied from 6.5% in Cardiff & Vale LHB to 8.1% in Cwm Taf LHB. Overall in Wales 6.7% of births weighed less than 2,500g at birth.

No account is taken of differing LHB age distributions.

**Table 1: Live births by gestational age and selected indicators, Wales 2011**

<b>Birthweight</b>	<b>Number of weeks gestation:</b>					<b>Total</b>
	<b>20-31</b>	<b>32-36</b>	<b>37-41</b>	<b>42 or more</b>	<b>Not stated</b>	
<b>Under 2500g</b>	390	1,086	890	21	16	2,403
<b>2500-3999g</b>	32	989	26,357	1,487	126	28,991
<b>4000g or more</b>	3	18	3,771	440	17	4,249
<b>Not stated</b>	18	1	18	1	1	39
<b>Total</b>	443	2,094	31,036	1,949	160	35,682

<b>Mother's age (years)</b>	<b>Number of weeks gestation:</b>					<b>Total</b>
	<b>20-31</b>	<b>32-36</b>	<b>37-41</b>	<b>42 or more</b>	<b>Not stated</b>	
<b>Under 16</b>	3	2	48	4	0	57
<b>16-19</b>	25	154	2,046	163	21	2,409
<b>20-24</b>	101	414	7,076	489	35	8,115
<b>25-29</b>	118	580	8,967	571	32	10,268
<b>30-34</b>	110	549	7,939	466	43	9,107
<b>35-39</b>	62	303	4,016	214	23	4,618
<b>40-44</b>	23	79	907	40	4	1,053
<b>45 or over</b>	1	12	35	2	1	51
<b>Not stated</b>	0	1	2	0	1	4
<b>Total</b>	443	2,094	31,036	1,949	160	35,682

Gestations less than 20 weeks or more than 45 weeks included as "not stated"

Mother's age less than 10 and more than 54 included as "not stated"

Birthweight less than 0.5kg or more than 6kg included as "not stated"

**Table 2: Live births by birthweight and mother's age, Wales 2011**

<b>Mother's age (years)</b>	<b>Under 2000g</b>	<b>2000-2499g</b>	<b>2500-2999g</b>	<b>3000-3999g</b>	<b>4000g or more</b>	<b>Not stated</b>	<b>Total</b>
<b>Under 16</b>	2	0	13	39	3	0	57
<b>16-19</b>	50	137	436	1,592	191	3	2,409
<b>20-24</b>	184	355	1,334	5,412	819	11	8,115
<b>25-29</b>	246	392	1,650	6,767	1209	4	10,268
<b>30-34</b>	205	393	1,328	5,921	1246	14	9,107
<b>35-39</b>	133	209	651	2,963	657	5	4,618
<b>40-44</b>	35	52	178	668	118	2	1,053
<b>45 or over</b>	6	3	13	23	6	0	51
<b>Not stated</b>	0	1	1	2	0	0	4
<b>Total</b>	861	1,542	5,604	23,387	4249	39	35,682

Mother's age less than 10 and more than 54 included as "not stated"

**Table 3: Live births by breastfeeding and selected indicators, Wales 2011**

<b>Mother's age (years)</b>	<b>Breastfeeding</b>	<b>Not breastfeeding</b>	<b>Not stated</b>	<b>Total</b>
<b>Under 16</b>	12	40	5	57
<b>16-19</b>	702	1,471	236	2,409
<b>20-24</b>	3,112	4,264	739	8,115
<b>25-29</b>	5,205	4,168	895	10,268
<b>30-34</b>	5,528	2,863	716	9,107
<b>35-39</b>	2,806	1,356	456	4,618
<b>40-44</b>	667	297	89	1,053
<b>45 or over</b>	30	9	12	51
<b>Not stated</b>	0	1	3	4
<b>Total</b>	18,062	14,469	3,151	35,682

<b>Gestational age (weeks)</b>	<b>Breastfeeding</b>	<b>Not breastfeeding</b>	<b>Not stated</b>	<b>Total</b>
<b>20-31</b>	134	116	193	443
<b>32-36</b>	920	885	289	2,094
<b>37-41</b>	15,972	12,567	2,497	31,036
<b>42 or more</b>	965	834	150	1,949
<b>Not stated</b>	71	67	22	160
<b>Total</b>	18,062	14,469	3,151	35,682

<b>Birthweight</b>	<b>Breastfeeding</b>	<b>Not breastfeeding</b>	<b>Not stated</b>	<b>Total</b>
<b>Under 2000g</b>	298	295	268	861
<b>2000-2499g</b>	627	726	189	1,542
<b>2500-2999g</b>	2,579	2,543	482	5,604
<b>3000-3999g</b>	12,171	9,353	1,863	23,387
<b>4000g or more</b>	2,376	1,545	328	4,249
<b>Not stated</b>	11	7	21	39
<b>Total</b>	18,062	14,469	3,151	35,682

<b>Place of birth</b>	<b>Breastfeeding</b>	<b>Not breastfeeding</b>	<b>Not stated</b>	<b>Total</b>
<b>Home</b>	653	329	98	1,080
<b>Hospital</b>	17,333	14,094	2,939	34,366
<b>Other</b>	11	5	2	18
<b>Not stated</b>	65	41	112	218
<b>Total</b>	18,062	14,469	3,151	35,682

Gestations less than 20 weeks or more than 45 weeks included as "not stated"

Mother's age less than 10 and more than 54 included as "not stated"

Birthweight less than 0.5kg or more than 6kg included as "not stated"

**Table 4: Live births by time of birth, Wales 2011**

<u>Time (24 hour clock)</u>	<u>Live births</u>
00:00-00:59	1,464
01:00-01:59	1,503
02:00-02:59	1,486
03:00-03:59	1,493
04:00-04:59	1,430
05:00-05:59	1,378
06:00-06:59	1,383
07:00-07:59	1,237
08:00-08:59	1,143
09:00-09:59	1,640
10:00-10:59	1,981
11:00-11:59	1,747
12:00-12:59	1,740
13:00-13:59	1,351
14:00-14:59	1,795
15:00-15:59	1,672
16:00-16:59	1,527
17:00-17:59	1,384
18:00-18:59	1,408
19:00-19:59	1,342
20:00-20:59	1,213
21:00-21:59	1,422
22:00-22:59	1,462
23:00-23:59	1,477
Not stated	4
<b>Total</b>	<b>35,682</b>

**Table 5: Live births by place of birth and mother's age, Wales 2011**

<u>Mother's age (years)</u>	<u>Home</u>	<u>Hospital</u>	<u>Other</u>	<u>Not stated</u>	<u>Total</u>
Under 16	0	57	0	0	57
16-19	47	2,347	0	15	2,409
20-24	192	7,876	7	40	8,115
25-29	320	9,889	1	58	10,268
30-34	312	8,737	7	51	9,107
35-39	161	4,406	3	48	4,618
40-44	48	1,001	0	4	1,053
45 or over	0	51	0	0	51
Not stated	0	2	0	2	4
<b>Total</b>	<b>1,080</b>	<b>34,366</b>	<b>18</b>	<b>218</b>	<b>35,682</b>

Mother's age less than 10 and more than 54 included as "not stated"

**Table 6: Live births by selected indicators, Wales 2001-2011**

<b>Place of birth</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>Home</b>	544	574	789	924	1,146	1,144	1,224	1,281	1,291	1,227	1,080
<b>Hospital</b>	29,858	27,924	30,403	31,228	31,346	32,391	33,120	34,324	33,559	34,657	34,366
<b>Other</b>	280	1,805	220	185	122	127	104	25	17	16	18
<b>Not stated</b>	8	12	7	14	19	28	21	125	135	133	218
<b>Total</b>	30,690	30,315	31,419	32,351	32,633	33,690	34,469	35,755	35,002	36,033	35,682
<b>Mother's age (years)</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>Under 16</b>	97	104	64	70	88	89	79	86	74	66	57
<b>16-19</b>	3,060	2,869	2,880	3,038	3,000	3,027	2,945	3,016	2,839	2,720	2,409
<b>20-24</b>	6,523	6,631	6,981	7,240	7,254	7,614	7,780	8,194	8,195	8,325	8,115
<b>25-29</b>	8,356	7,877	8,108	8,258	8,406	8,656	9,301	9,894	10,035	10,350	10,268
<b>30-34</b>	8,257	8,218	8,617	8,690	8,560	8,605	8,463	8,518	8,214	8,779	9,107
<b>35-39</b>	3,685	3,826	3,988	4,156	4,416	4,764	4,884	5,018	4,620	4,690	4,618
<b>40-44</b>	632	691	720	853	862	875	941	974	970	1,022	1,053
<b>45 or over</b>	33	40	41	28	38	40	49	46	41	72	51
<b>Not stated</b>	47	59	20	18	9	20	27	9	14	9	4
<b>Total</b>	30,690	30,315	31,419	32,351	32,633	33,690	34,469	35,755	35,002	36,033	35,682
<b>Gestational age (weeks)</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>&lt;24</b>	23	26	20	26	18	22	24	25	25	29	32
<b>24-27</b>	110	98	119	122	131	117	127	104	132	126	132
<b>28-31</b>	261	264	293	308	297	292	265	333	300	305	279
<b>32-36</b>	1,807	1,829	1,929	1,989	1,860	2,048	2,168	2,094	2,120	2,067	2,094
<b>37-41</b>	25,117	24,761	25,805	27,479	28,429	29,122	30,072	31,199	30,592	31,654	31,036
<b>42+</b>	1,527	1,190	1,208	1,330	1,620	1,780	1,588	1,718	1,546	1,700	1,949
<b>Not stated</b>	1,845	2,147	2,045	1,097	278	309	225	282	287	152	160
<b>Total</b>	30,690	30,315	31,419	32,351	32,633	33,690	34,469	35,755	35,002	36,033	35,682
<b>Birth weight</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>Under 2000g</b>	814	828	829	867	847	887	880	916	882	911	861
<b>2000-2499g</b>	1,407	1,358	1,414	1,458	1,347	1,524	1,563	1,591	1,623	1,552	1,542
<b>2500-2999g</b>	4,929	4,977	5,284	5,324	5,267	5,352	5,485	5,576	5,586	5,589	5,604
<b>3000-3999g</b>	19,866	19,443	20,250	20,651	21,164	21,915	22,358	23,334	22,811	23,557	23,387
<b>4000g or more</b>	3,567	3,583	3,574	3,970	3,842	3,909	4,055	4,271	4,023	4,345	4,249
<b>Not stated</b>	59	69	41	75	166	103	128	67	77	79	39
<b>Total <sup>1</sup></b>	30,642	30,258	31,392	32,345	32,633	33,690	34,469	35,755	35,002	36,033	35,682
<b>Breastfeeding</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>Breastfeeding</b>	10,766	13,881	15,007	15,339	15,780	15,445	15,959	17,810	18,032	17,983	18,062
<b>Not breastfeeding</b>	9,989	11,881	13,120	13,590	12,867	12,580	12,551	13,777	13,793	14,524	14,469
<b>Not stated</b>	9,935	4,553	3,292	3,422	3,986	5,665	5,959	4,168	3,177	3,526	3,151
<b>Total</b>	30,690	30,315	31,419	32,351	32,633	33,690	34,469	35,755	35,002	36,033	35,682
<b>Number of Babies</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>
<b>1 Baby</b>	29,784	29,404	30,561	31,433	31,731	32,769	33,503	34,658	33,968	35,019	34,723
<b>More than 1 Baby</b>	858	854	831	912	856	916	966	1,097	1,034	1,014	959
<b>Not stated</b>	0	0	0	0	0	5	0	0	0	0	0
<b>Total <sup>1</sup></b>	30,642	30,258	31,392	32,345	32,587	33,690	34,469	35,755	35,002	36,033	35,682

<sup>1</sup> Note that the data for birth weight and numbers of babies for 2000 to 2005 was extracted from a more recent version of the database than the other parts of Table 6 and therefore are not consistent.

Gestations less than 20 weeks or more than 45 weeks included as "not stated"

Mother's age less than 10 and more than 54 included as "not stated"

Birthweight less than 0.5kg or more than 6kg included as "not stated"

## Key Quality Information: National Community Child Health Database (NCCHD)

**Source:** Operational Child Health System (CCH2000) databases held by LHBs. Completeness and data quality of the items held on NCCHD vary depending on the extent to which LHBs use the items for administrative purposes. Improving data quality with the help of LHBs is an ongoing process.

Please see the ["Births in Wales: Data from the National Community Child Health Database Quality Report"](#) for further background and quality information.

**Coverage:** Statistics in the release relate to live births born to Welsh residents during the relevant calendar year. The release profiles live births to Welsh residents. However births occurring in Wales (whether to Welsh or non Welsh residents) can also be counted by the NCCHD and these are shown by maternity unit in a StatsWales table.

**Data quality:** The number of live births to Welsh residents recorded on NCCHD for 2010 compares well with the 35,952 recorded in 2010 registration statistics by ONS. This emphasises the completeness of the NCCHD data at the all-Wales level. However, there remain data quality issues to be addressed at lower level geographies, especially for small areas. See Annex A.

**Completeness:** With the exception of breastfeeding and apgar score data, items in this release were more than 99% complete in 2011. Note that the accompanying charts and tables may include categories for not stated data. Calculated percentages exclude not stated values from the denominator unless otherwise stated.

**Comparison with ONS registered births statistics:** the tables below show percentage comparisons between NCCHD 2010 and ONS registered live births for 2010:

### Live births by mother's age

*% of births with stated mother's age*

	<u>NCCHD</u>	<u>ONS</u>
	<u>2010</u>	<u>2010</u>
Under 16	0.2	0.2
16-19	7.6	7.5
20-24	23.1	23.0
25-29	28.7	28.9
30-34	24.4	24.4
35-39	13.0	13.0
40-44	2.8	2.9
45 and over	0.2	0.2
Total	100.0	100.0

### Live births by birthweight

*% of births with stated birthweight*

	<u>NCCHD</u>	<u>ONS</u>
	<u>2010</u>	<u>2010</u>
Under 2000g	2.5	2.7
2000-2499g	4.3	4.3
2500-2999g	15.5	15.6
3000-3999g	65.5	65.4
4000g or more	12.1	12.0
Total	100.0	100.0
Total stated	35,954	35,475

**Published Statistics on births in Wales:** Knowledge & Analytical Services currently publishes 3 main annual outputs on births and deliveries in Wales. These utilise different sources of data and will be used in different circumstances:

*Births and Infant Mortality Statistics, 2009:* This bulletin summarises registered births and infant mortality statistics produced by the Office for National Statistics. It should be used as the main source of birth statistics for Wales. See [Birth and Infant Mortality Statistics, 2010](#)

*Maternity Statistics: Method of Delivery, 2001-2011:* This release summarises deliveries occurring in Welsh hospitals by method of delivery. The data source is PEDW (Patient Episode Data Wales) and is for hospital deliveries only. The release includes information on length of stay, inductions, complications and so on. See [Maternity Statistics: Method of Delivery, 2001-2011](#)



*Births in Wales: data from the National Community Child Health Database, 2001-2011:* The current release summarises birth data items on the NCCHD including data which is not available for Wales from other sources such as births by gestation and breastfeeding. The release covers live births to Welsh residents but NCCHD can also provide counts of births in Welsh maternity units and these are included in a StatsWales table.

### **Health Maps Wales:**

Health Maps Wales is an interactive tool that can be used to explore a variety of health indicators. The maps allow the user to explore data at their geographic area of choice (where available), to look at trends and to compare areas against a Wales comparison figure. Indicators are available at Middle Super Output Area (MSOA), Upper Super Output Area (USOA) and Unitary Authority (UA) level subject to rules of disclosure and small numbers. Data from the NCCHD include indicators for birth and baby information such as birth weight, maternal age, gestational age and breastfeeding.

See [Health Maps Wales](#).

Data from the NCCHD is also used by the **All Wales Perinatal Survey** to analyse early child deaths; their [latest annual report](#) is available.

### **Data access, confidentiality and disclosure control:**

NCCHD is a database containing information about individual children in Wales and it is paramount that their confidentiality be protected. The possibility of identifying confidential information about individuals from this data has been considered. Some data items may be of a sensitive nature and as a result published tables are designed so as to not contain many dimensions and low cell counts. Users may request tabulated data from the Information Services Department in NHS Wales Informatics Service (NWIS). In order to ensure the correct data is supplied users will be asked to refine the request and describe the use they intend to make of the data. They also may be asked to collapse groups if the team fear that the resulting table may be disclosive e.g. aggregated age groups rather than single years of age. Any requests for data (including individual record level data) that the team feels may be potentially disclosive will be referred to the database Caldicott Guardian and if necessary to the Welsh Security and Confidentiality Advisory Group (WSCAG). At this stage an extract of micro-data (individual record level data) will only be available in a limited way and only when sufficient reassurance has been received that access, confidentiality and disclosure issues have been fully addressed by the potential user, including the completion a Data Access Agreement.

Our statistics take into account our disclosure control guidance and follow ONS confidentiality guidelines for Health statistics available from: [ONS best-practice guidelines](#)

### **Revisions:**

NCCHD is a live database and is refreshed quarterly. If reports are run from subsequent versions of the database counts will differ from published figures. Historical data is not revised unless errors are discovered.

### **Contact details for the NCCHD Request Service at NHS Wales Informatics Service (NWIS):**

<http://howis.wales.nhs.uk/sites3/page.cfm?orgid=527&pid=14646>

e-mail: [louise.richards7@wales.nhs.uk](mailto:louise.richards7@wales.nhs.uk)

Tel: 029 2050 2328

We welcome comments from users of our publications on content and presentation. If you have any comments or require further information, please contact:

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## NCCHD: Data Completeness, all births to Welsh residents at time of birth, 2011

			01/01/11 - 31/12/11
Item No	Data Item Name	Data ItemTerm	
WMD1	Trust Number	Unique number identifying the Trust	100%
WMD4	Date of Birth	Date of Birth of Child	100%
WMD5	Time of Birth	Time of Birth of Child	100%
WMD6	Sex	Gender of the Child	100%
WMD7	Ward Code	Electoral and Census	100%
WMD48	LHB	The Local Health Board with responsibility for the Child based on residence.	99%
WMD8	Initial Status	The reason why the record was initially created and the date of creation	100%
WMD9	Current Status	The reason why the child has reached its current status and the date it reached this status	100%
WMD10	GP Practice	The OCS code for the current GP practice of the child	99%
WMD11	HV Code	The current Health Visitor code for the child	99%
WMD12	Number Born	The number of births resulting from the pregnancy	100%
WMD13	Birth Order	The order of the birth where more than one birth resulted from the pregnancy	99%
WMD14	Birth Weight	First weight of baby following delivery, preferably in the first hour of life.	100%
WMD16	Age of Mother	Mother's age at time of birth	100%
WMD17	Ethnic Group	The ethnicity of the child as defined by the mother	100%
WMD19	Mode of Delivery	The procedure by which the mother is delivered of the baby.	70%
WMD20	Onset of Labour	The method by which the process of labour began	69%
WMD21	Breast Feeding at Birth	Indicator of mother's intention to breast or bottle feed, baby being breast or bottle fed at birth.	90%
WMD49	Breast Feeding at 8 weeks.	Indicator of mother's actual feeding, either breast or bottle age of 8 weeks	62%
WMD22	Smoking History	The number of cigarettes that the mother smokes each day	65%
WMD23	Maternal Care	The type of maternal care	60%
WMD25	Gestational Age	Best estimate of gestation at time of delivery, normally based on post menstrual age but may be modified on the basis of ultrasound scan.	100%
WMD28	Apgar Score 1 mi	The total apgar score for a baby at 1 minute after birth.	70%
WMD28	Apgar Score 5 mi	The total apgar score for a baby at 5 minutes after birth.	93%
WMD29	Place of Birth	Actual place of child's birth, i.e. hospital number or home	100%
WMD31	PKU Screening	Outcome of Guthrie (screening) test for Phenylketonuria.	98%
WMD32	Hypo Screening	Outcome of screening test for Hypothyroidism.	98%
WMD35	Cystic Fib Screen	Outcome of screening test for Cystic Fibrosis.	98%
WMD36	Musc Dys Screen	Outcome of screening test for Duchenne Muscular Dystrophy.	87%
WMD39	6/8 week check	Outcome of assessment carried out around the age of 6/8 weeks	Data validation work to be done
WMD40	8/9 month check	Outcome of assessment carried out around the age of 8/9 months.	Data validation work to be done
WMD41	2 year check	Outcome of assessment carried out around the age of 2 years.	Data validation work to be done
WMD42	Primary School check	Outcome of assessment carried out around the age of 3/4 years	Data validation work to be done
WMD45	Significant conditions	causing child, family or health professional significant concern.	Data validation work to be done
WMD46	Cause of Death	The diagnoses as recorded on post mortem or in its absence on the certificate of death	Data validation work to be done
WMD47	Immunisation status	The giving of a vaccine or group of vaccines aimed at developing antibodies within the child such that he/she is protected from the disease as part of the national program.	100%