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Introduction

Nutrition plays a crucial role in the early months and years of life and is important in achieving optimal health. Improving Maternal and Infant Nutrition: A Framework for Action was published by the Scottish Government in January 2011. It is a framework for action which can be taken by NHS Boards, local authorities and others to improve the nutrition of pregnant women, babies and young children in Scotland. Promoting and supporting breastfeeding is a key component of this as breastfeeding rates are low in Scotland. As outlined in the document "The Scottish Government has adopted as policy World Health Organisation guidance recommending exclusive breastfeeding for the first six months of an infant's life. It is recommended breastfeeding should continue beyond six months, alongside the introduction of appropriate solid foods, for up to two years of age or as long as the mother chooses".

Encouraging and supporting breastfeeding is recognised as an important public health activity. There is good evidence that breastfeeding in infancy has a protective effect against many childhood illnesses. Breastfed infants are likely to have a reduced risk of infection, particularly those affecting the ear, respiratory tract and gastro-intestinal tract. This protective effect is particularly marked in low birth weight infants. Other probable benefits include improved cognitive and psychological development, and a reduced risk of childhood obesity. There is evidence that women who breastfed have lower risks of breast cancer, epithelial ovarian cancer\(^1\) and hip fracture later in life.

Support and encouragement for breastfeeding can be provided at many levels. For example: health promotion campaigns at a national level; policies in maternity hospitals at NHS board level and primary care teams working with individual women and groups within the community. While these can support and encourage mothers to initiate and continue breastfeeding, there are a wide range of other factors that influence mothers. Maternal age and deprivation are known to be strongly associated with the likelihood of breastfeeding.

Breastfeeding rates in Scotland are monitored and published annually. Statistics are presented by NHS Board and Community Health Partnership (CHP), and also by maternal age, deprivation and smoking status. The information is derived from data collected at routine child health reviews at around 10 days and 6-8 weeks of age, and recorded on the Child Health Systems Programme Pre-School system (CHSP Pre-School). This release provides breastfeeding statistics in Scotland for the latest ten financial years, 2004/05 to 2013/14. Data are available from financial year 2001/02. Information on the financial years not included in this update can be found in the October 2012 publication.

Methods and Definitions

Data collection

NHS Scotland provides a universal health promotion programme to all children and their families known as the child health programme. The programme includes various elements such as formal screening for specific medical problems, routine childhood immunisations, and a structured programme of needs assessment, health promotion, and parenting support provided through regular scheduled contacts with health visitors, school nurses and other health professionals.

The delivery of the child health programme to pre-school aged children in Scotland is supported by the CHSP Pre-School system. The system facilitates the invitation of children for specific child health programme contacts as they reach the appropriate age and also allows recording of information obtained and/or care given during the contacts.

These statistics are derived from data collected at the child health programme health visitor First Visit review (which takes place at around 10 days of age) and 6-8 week review. At these reviews, the health professional (normally a health visitor) records the type of milk the baby is fed i.e. whether the baby is fed breast milk only, fed formula milk only, or fed both breast and formula milk. These data are then recorded on the CHSP Pre-School system. ISD receive data extracts from the system for the purpose of producing and publishing statistics.

Data Completeness

The target population these statistics aim to cover is all babies born in Scotland each year i.e. the data are not based on a sample.

Data completeness has increased over the years presented (2004/05 to 2013/14).

Factors affecting data completeness and impact on reported rates

1. The number of Boards using the CHSP Pre-School system and recording data has increased since 2004/05 from 10 to all 14 NHS Boards in Scotland. NHS Western Isles have recorded data from 2006/07, NHS Shetland from 2008/09, and NHS Grampian and NHS Orkney from 2010/11. Data for NHS Grampian and NHS Orkney for 2010/11 are partial. These Boards implemented the system in June 2010 and July 2010 respectively and therefore data are not available for babies born in the first quarter of 2010/11 who had a First Visit or 6-8 week review before the implementation date. In addition it should be noted that NHS Highland did not fully implement the system until May 2007, though data are available for the area of NHS
Highland inherited from former NHS Argyll & Clyde (i.e. Argyll & Bute Council Area) for financial years 2004/05 to 2006/07.

Three of the four NHS Boards that don’t have data available for all years are island boards (Orkney, Shetland and Western Isles). These boards have a small number of births each year and therefore the impact of data not being available for these boards on the ‘Scotland’ / ‘All participating NHS Boards’ rates and trend is negligible. However NHS Grampian has a relatively large number of births each year (around 10% of all births in Scotland). Grampian did not start recording data on the system until 2010/11 and the reported breastfeeding rates in Grampian in 2010/11 to 2013/14 are higher than the Scotland average. This means that if Grampian data had been available for years 2004/05 to 2009/10, it is likely that the ‘Scotland’ level reported breastfeeding rates at the First Visit and 6-8 week reviews would have been slightly higher for these years (possibly around 1.2 percentage points higher for overall breastfeeding and around 0.9 percentage points higher for exclusive breastfeeding). This should be borne in mind when comparing the ‘Scotland’ breastfeeding rates for 2010/11 to 2013/14 with previous years.

Due to the phased implementation of the CHSP Pre-School system, data are not available for all years for some participating NHS Boards and the constituent Community Health Partnerships in the tables accompanying this release.

2. It is estimated that each year First Visit and 6-8 week review data are missing for approximately 1% and 5.5% respectively of babies eligible to receive these reviews (see Report on CHSP Pre-School data quality). In some cases a First Visit / 6-8 week review will have taken place but the data has not been recorded on the system due, for example, to the review form not being returned for data entry. A proportion of the missing information will also be due to babies not receiving a First Visit / 6-8 week review which can happen for a variety of reasons e.g. due to a hospital stay or the health visitor being unable to make contact with the family. As the proportion of data that is missing is small, this has little impact on the accuracy of the reported rates.

3. Data on feeding status is missing or invalid on a small proportion of First Visit / 6-8 week review records each year. For the financial year 2013/14, feeding status is missing or invalid on 0.7% of First Visit and 0.9% of 6-8 week review records. These figures vary slightly between NHS Boards. The proportion of records with missing feeding status has stayed broadly consistent in recent years. The highest proportion of records with unknown feeding status in the time period presented was in 2004/05, with this information missing on 1.7% of First Visit and 2.0% of 6-8 week review records. As the proportion of data with a missing or unknown feeding status is small, this has little impact on the accuracy of the reported rates. The number of reviews used as the denominator for the breastfeeding rates relates to babies who received a First Visit / 6-8 week review and whose feeding status is known.
Annual overall estimates of the completeness of the breastfeeding data at the First Visit and 6-8 week reviews at Scotland level are shown in the table below:

<table>
<thead>
<tr>
<th>Financial year</th>
<th>Number of live births¹</th>
<th>First Visit reviews with known feeding status</th>
<th>6-8 week reviews with known feeding status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Number</td>
<td>%</td>
</tr>
<tr>
<td>2004/05</td>
<td>53,957</td>
<td>44,262</td>
<td>82</td>
</tr>
<tr>
<td>2005/06</td>
<td>54,386</td>
<td>44,435</td>
<td>82</td>
</tr>
<tr>
<td>2006/07</td>
<td>55,690</td>
<td>45,967</td>
<td>83</td>
</tr>
<tr>
<td>2007/08</td>
<td>57,781</td>
<td>50,322</td>
<td>87</td>
</tr>
<tr>
<td>2008/09</td>
<td>60,041</td>
<td>51,534</td>
<td>86</td>
</tr>
<tr>
<td>2009/10</td>
<td>59,046</td>
<td>51,317</td>
<td>87</td>
</tr>
<tr>
<td>2010/11</td>
<td>58,791</td>
<td>55,471</td>
<td>94</td>
</tr>
<tr>
<td>2011/12</td>
<td>58,590</td>
<td>56,842</td>
<td>97</td>
</tr>
<tr>
<td>2012/13</td>
<td>58,027</td>
<td>55,619</td>
<td>96</td>
</tr>
<tr>
<td>2013/14</td>
<td>56,014</td>
<td>54,581</td>
<td>97</td>
</tr>
</tbody>
</table>

1. Data on live births are sourced from National Records of Scotland birth registrations and are collated by calendar year. Data on breastfeeding at the First Visit / 6-8 week reviews are collated by financial year. Therefore, for example, data completeness estimates for 2013/14 are based on live births in calendar year 2013.

Source: National Records of Scotland; CHSP Pre-School Aug 2014

Breastfeeding rates at Scotland level are also presented by maternal age, deprivation and smoking status. As only a small proportion of these data are missing this has a negligible impact on the accuracy of rates reported by maternal age, deprivation and smoking status. The details are:

- Maternal age is missing on approximately 3% of First Visit records and 5% of 6-8 week review records across all years. Records where maternal age is not known are included in the “All ages” totals presented in the tables. Maternal age is recorded at the health visitor First Visit review and is matched to the 6-8 week review data to allow breastfeeding rates at this review to be produced by maternal age group.
- Maternal smoking status is recorded at the health visitor First Visit review. The proportion of records with unknown smoking status has decreased from 5.8% in 2004/05 to around 2% in recent years. Records where the smoking status is unknown are included in the totals presented in the tables. Maternal smoking status is not collected at the 6-8 week review, therefore the tables on maternal smoking status relate to the First Visit review only.
- Scottish Index of Multiple Deprivation (SIMD) 2012 quintile is missing on less than 1% of records across all years. SIMD 2012 quintile is derived from the child’s home postcode at the time of review, or where this is not available, from home postcode at birth, as derived from National Records of Scotland birth registrations.
Definitions

**Exclusively breastfed:** babies fed only breast milk in the 24 hours prior to the First Visit / 6-8 week review

**Mixed breast and formula fed:** babies fed both breast milk and formula milk in the 24 hours prior to the First Visit / 6-8 week review. This is sometimes referred to as partially breastfed.

**Breastfed:** babies fed only breast milk and babies fed both breast milk and formula milk in the 24 hours prior to the First Visit / 6-8 week review.

**Number of reviews:** the number of babies whose feeding status at the First Visit / 6-8 week review is recorded and valid. This is the denominator used in the calculation of breastfeeding rates.

% **Exclusively breastfed** is calculated as:

\[
\frac{\text{Number of babies exclusively breastfed}}{\text{Number of reviews}} \times 100
\]

% **Breastfed (includes mixed breast and formula fed)** is calculated as:

\[
\frac{\text{Number of babies exclusively breastfed} + \text{number of babies mixed breast and formula fed}}{\text{Number of reviews}} \times 100
\]

Note this is sometimes referred to as the overall breastfeeding rate.

**Differences in definition of exclusive breastfeeding with data from other sources**

The World Health Organisation (WHO) defines exclusive breastfeeding as where the baby has only ever been given breast milk and has never been fed formula milk, solid foods, or any other liquids. The data reported here on exclusive breastfeeding differs from the WHO definition as it relates to the type of milk feeding only in the 24 hours prior to the review.

The guidance that the type of milk feeding recorded should relate to the previous 24 hour period was added to the guidelines for health professionals who use CHSP Pre-School in October 2010. Type of milk feeding in previous 24 hour period was seen as a practical, ‘easy to use’ definition for use at routine child health reviews where these data are collected i.e. it is straightforward and quick for mothers to recall the type of feeding in the last 24 hour period. Prior to this clarification no specific definitional guidance existed and
therefore there may have been some variation in how health visitors categorised type of feeding. However there has been no noticeable change in the trend in exclusive breastfeeding rates which suggests this definitional clarification has not impacted on the comparability of the data prior to, and following, the introduction of the guidance.

Breastfeeding rates for Scotland are also reported in the UK wide Infant Feeding Survey which has been carried out every five years since 1975. The Infant Feeding Survey is based on a sample of mothers in Scotland and uses the WHO definition of exclusive breastfeeding. Results of the survey tend to give a higher breastfeeding rate compared with the data from routine health reviews reported here, however the trends demonstrated are similar. As the survey is based on a sample, the results may be influenced by selective participation i.e. mothers who are breastfeeding may be more likely to respond and participate in the survey. This may explain why the survey reports higher breastfeeding rates in Scotland compared to the data reported here at broadly comparable stages (i.e. when babies are around 10 days and six to eight weeks of age).

### Timing of the 6-8 week review and comparability of figures

The timing of the 6-8 week review is important to consider as there is a known drop-off in breastfeeding rates with time i.e. breastfeeding rates decrease with increasing age of child at the review. At Scotland level, as the vast majority of reviews are carried out when babies are between, or close to, 6 to 8 weeks of age, the impact on the reported rates is small. The reported rates at the 6-8 weeks review will marginally underestimate the actual prevalence of breastfeeding (overall, exclusive and mixed) between 6 to 8 weeks of age in Scotland by around one percentage point due to the small number of reviews carried out ‘late’. The impact of variation in the timing of the 6-8 week review on the reported rates is more important to consider when making comparisons between NHS Boards and CHPs, and when comparing these rates to the Scotland rates. This is discussed in more detail in the Results and Commentary, Timing of the 6-8 Week Review section.

### Accuracy and reliability

This is an established data collection which covers a very high proportion of the target population. These data are a reliable indicator of breastfeeding rates in Scotland and are broadly comparable with data from other sources.
Key points

- Across Scotland, the overall breastfeeding rate has remained at a broadly similar level over the last decade. There have been slight increases in the rate at the first visit (around 10 days of age) in more recent years due to an increase in mixed feeding where the baby is fed both breast and formula milk.

- In 2013/14, 48.4% of babies were breastfed at the first visit, falling to 37.9% at the 6–8 week review.

- There has been an increase in overall breastfeeding rates in the most deprived areas at the first visit over the last decade though there remains a clear association between breastfeeding and deprivation. Mothers in the least deprived areas were nearly three times as likely to exclusively breastfeed at 6-8 weeks compared with mothers in the most deprived areas.

- Non-smoking mothers were around three times as likely to exclusively breastfeed as mothers who smoke at the first visit. This is likely to be a reflection of an association between smoking and other social and cultural factors. In 2013/14, 39.6% of non-smoking mothers exclusively breastfed their babies, compared with 13.7% of mothers who smoked.

- Breastfeeding rates vary by geographical area. There are a range of possible reasons for this, including differences of deprivation in the area, local practice in maternity hospitals and primary care teams. A small proportion of this variation may be accounted for by differences in the timing of the 6-8 week review between NHS Boards. The timing of the 6-8 week review is important to consider as there is a known drop-off in breastfeeding rates with time i.e. breastfeeding rates decrease with increasing age of child at the review.
Results and Commentary

Breastfeeding at the First Visit

In 2013/14, 48.4% of babies were breastfed at the First Visit review, which takes place at around 10 days. The overall breastfeeding rate comprises 35.4% of babies who were exclusively breastfed and 13.0% who were mixed fed both breast milk and formula milk.

Across Scotland, the overall breastfeeding rate at the First Visit review has remained at a broadly similar level over the last decade, with slight increases in the most recent years due to an increase in mixed feeding. The percentage of babies who were mixed fed both breast milk and formula milk at the First Visit has increased from 5.8% to 13.0% between 2004/05 and 2013/14. Over the same period there has been a slight decrease in the exclusive breastfeeding rate (Figure 1).

It is important to note that data for NHS Grampian is not included in these statistics until 2010/11. Grampian has a relatively large number of births each year (around 10% of all births in Scotland) and 2010/11 to 2013/14 had breastfeeding rates higher than the Scotland average. This means that if Grampian data had been available for years 2003/04 to 2009/10, it is likely that the ‘All participating NHS Boards’ reported breastfeeding rates would have been slightly higher for these years (possibly around 1.2 percentage point higher for overall breastfeeding and around 0.9 percentage points higher for exclusive breastfeeding). This should be borne in mind when comparing the ‘All participating NHS Boards’ breastfeeding rates for 2010/11 to 2013/14 with previous years.
The number of NHS Boards included in these statistics has increased from 10 Boards in 2004/05 to all 14 Boards in Scotland. This should be borne in mind when examining the trend in breastfeeding rates for ‘All participating NHS Boards’ however the impact on the reported rates in small. See Data Completeness for further information.

The prevalence of breastfeeding at the First Visit varies by geographical area. For example, exclusive breastfeeding rates in 2013/14 range from 23.4% in NHS Lanarkshire to 58.7% in NHS Orkney (Figure 2). There are a wide range of possible reasons for this geographical variation including, for example, differences in the deprivation (this is discussed later), and differences in local practices in maternity hospitals and primary care teams regarding support for breastfeeding. There is also variation in the trends observed, with rates in some boards being fairly static, while others have seen an increase or decrease in the prevalence of breastfeeding.
Breastfeeding at the 6-8 Week Review

In 2013/14, 37.9% of babies were breastfed at the 6-8 week review. The overall breastfeeding rate comprises 27.1% of babies who were exclusively breastfed and 10.7% who were mixed fed both breast milk and formula milk.

The prevalence of overall and exclusive breastfeeding at the 6-8 week review has remained static across Scotland over the last decade (Figure 3). As previously discussed, data for NHS Grampian is not included in these statistics until 2010/11 and this means that if Grampian data had been available for years 2004/05 to 2009/10, it is likely that the ‘All participating NHS Boards’ reported breastfeeding rates would have been slightly higher for these years (possibly around 1.2 percentage point higher for overall breastfeeding and around 0.9 percentage points higher for exclusive breastfeeding).

This should be borne in mind when comparing the ‘All participating NHS Boards’ breastfeeding rates for 2010/11 - 2013/14 with previous years.
Breastfeeding rates at the 6-8 week review vary by geographical area. For example, exclusive breastfeeding rates in 2013/14 range from 17.3% in NHS Lanarkshire to 46.4% in NHS Orkney (Figure 4). As previously discussed there are a wide range of possible reasons for this geographical variation including, for example, differences in the deprivation (this is discussed later), and differences in local practices in maternity hospitals and primary care teams regarding support for breastfeeding. A small proportion of this variation may be accounted for by differences in the timing of the 6-8 week review between NHS Boards (this is discussed in the next section). There is also variation in the trends observed, with rates in some Boards being fairly static, while others have seen an increase or decrease in the prevalence of breastfeeding.

1. The number of NHS Boards included in these statistics has increased from 10 Boards in 2004/05 to all 14 Boards in Scotland. This should be borne in mind when examining the trend in breastfeeding rates for ‘All participating NHS Boards’ however the impact on the reported rates in small. See Data Completeness for further information.

Source: ISD Scotland, CHSP Pre-School Aug 2014
Breastfeeding rates at the First Visit and 6-8 week review are presented for financial years 2004/05 to 2013/14, by NHS Board and Community Health Partnership. For tables and charts please see:

Breastfeeding by NHS Board of Review and Financial Year
Breastfeeding by Community Health Partnership and Financial Year

Previous Breastfeeding Statistic publications also presented information Council Area. As approximate information by Council Area can be obtained by combining relevant Community Health Partnership data a separate breakdown of the information by Council Area is no longer provided. See Appendix A1 for more information.
Timing of the 6-8 Week Review

Across Scotland, there is variation in the timing of the 6–8 week review. The majority of babies receive their 6-8 week review between 6 and 8 weeks of age, however some reviews are recorded as taking place earlier than this and some later (Figure 5). The maximum age limit for the 6–8 week review is recommended as 12 weeks. A small percentage of reviews (3.2% in 2013/14) take place out-with between 5 and 12 weeks of age (most of these are beyond 12 weeks). Children born more than 28 days prematurely are scheduled for the 6-8 week review by gestational age (i.e. based on expected date of delivery). This accounts for a large portion of the reviews that occur beyond 12 weeks. At ‘Scotland’ level the distribution of timing of 6-8 reviews has remained fairly consistent over the time period reported.

The timing of the 6-8 week review is important to consider as there is a known drop-off in breastfeeding rates with time i.e. breastfeeding rates decrease with increasing age of child at the review. At ‘Scotland’ level between 2004/05 and 2013/14, 40.1% of babies who received their review at 5 weeks were breastfed, compared with 37.5% who were reviewed at 8 weeks and 25.6% at 12 weeks (Figure 6). The timing of the 6-8 week review can therefore have some effect on the reported breastfeeding rates. However at Scotland level, as the vast majority of reviews are carried out when babies are between, or close to, 6 to 8 weeks of age, the impact on the reported rates is small. The reported rates at the 6-8 week review will marginally underestimate the actual prevalence of breastfeeding (overall, exclusive and mixed) between 6 to 8 weeks of age in Scotland by around one percentage point due to the small number of reviews done at older ages.
**Figure 5: Timing of the 6-8 Week Review; Scotland; Year of birth 2013/14**

![Bar chart showing the proportion of reviews by age at review (weeks)].

Source: ISD Scotland, CHSP Pre-School Aug 2014

**Figure 6: Breastfeeding at the 6-8 Week Review by age of child at review in weeks; All participating NHS Boards; Years of birth 2004/05 – 2013/14 combined**

![Line chart showing the percentage of exclusively breastfed and breastfed (includes mixed breast and formula fed) by age at review (weeks)].

Source: ISD Scotland, CHSP Pre-School Aug 2014
The impact of variation in the timing of the 6-8 week review on the reported rates is more important to consider when making comparisons between NHS Boards, and CHPs, and when comparing these rates to the Scotland rates.

At NHS Board level there is a considerable amount of variation in the timing of the 6-8 week review. For example, the majority of 6-8 week reviews in NHS Ayrshire & Arran are carried out at 5 or 6 weeks (77.6% of reviews in 2013/14). However in NHS Tayside most reviews are carried out at 8 or 9 weeks (70.7% of reviews in 2013/14). This means the reported rates for NHS Ayrshire & Arran at the 6-8 week review will slightly overestimate the actual prevalence of breastfeeding at between 6 to 8 weeks of age in NHS Ayrshire & Arran. Similarly, the reported rates for NHS Tayside at the 6-8 week review will slightly underestimate the actual prevalence of breastfeeding at between 6 to 8 weeks of age in NHS Tayside. Although differences in the timing of review across NHS Boards are important to consider, the variation seen in the reported breastfeeding rates between NHS Boards is only partly attributable to differences in timing of the 6-8 week review. For example the distribution of reviews in NHS Fife and NHS Grampian is broadly similar; however the prevalence of breastfeeding in these Boards is quite different. As previously mentioned, there are a range of possible reasons for variation in breastfeeding rates between geographical areas.

Although at Scotland level, the distribution of the timing of 6-8 week reviews has remained fairly consistent over the 10 year time period reported, changes in the timing of review are observed in some NHS Boards over this period. For example in NHS Lanarkshire in 2004/05, 39.1% of reviews took place at 5 or 6 weeks of age and this had decreased to 31.0% in 2013/14. Therefore when examining rates for a particular NHS Board over time it is important to consider whether changes in the timing of the 6-8 week review is impacting on the trend in reported rates for a particular Board.

ISD have previously assessed whether it would be possible to produce adjusted breastfeeding rates at NHS Board level which would take account of variation in the timing of review between NHS Boards, however the model was found to be not technically feasible and robust. This was due to the small number of reviews at some ages at NHS Board level (particularly in the smaller Boards or Boards which carry out the majority of reviews at a certain age).

Breastfeeding rates at the 6-8 week review by age in weeks are presented at Scotland level for births in 2004/05 to 2013/14 combined. Information on the distribution of reviews by age in weeks is available at Scotland and NHS Board level for financial years 2004/05 to 2013/14. For tables and charts please see:

[Breastfeeding at the 6-8 week review by age of child at review](#)
Breastfeeding by Maternal Age, Deprivation and Smoking Status

There are a number of personal, social and cultural issues that are strongly associated with the likelihood of breastfeeding including maternal age, deprivation and smoking status. The analysis presented in this section demonstrates the correlation between each of these factors and breastfeeding.

Maternal Age

Older mothers are more likely to breastfeed than younger mothers. There is a strong trend of increasing breastfeeding rates associated with increasing age of the mother, although this tails off in the 35 plus age groups (Figure 7). In 2013/14, only 5.6% of mothers aged under 20 were exclusively breastfeeding at 6-8 weeks, compared with 34.1% of mothers aged 40 and over. A similar pattern is seen in the overall breastfeeding rate.

Figure 7: Breastfeeding at the 6-8 Week Review by Maternal Age; Scotland; Year of Birth 2013/14

Source: ISD Scotland, CHSP Pre-School Aug 2014
Deprivation

There is a clear association between breastfeeding and deprivation. In 2013/14, 42.6% of mothers in the least deprived areas were exclusively breastfeeding at the 6-8 week review, compared with 15.1% of mothers in the most deprived areas (Figure 8). This means mothers in the least deprived areas were nearly three times as likely to exclusively breastfeed at 6-8 weeks compared with mothers in the most deprived areas. A similar pattern is seen in the overall breastfeeding rate.

![Figure 8: Breastfeeding at the 6-8 Week Review by Scottish Index of Multiple Deprivation (SIMD) 2012 quintile; Scotland; Year of Birth 2013/14](image)

Source: ISD Scotland, CHSP Pre-School Aug 2014

Figures 9 and 10 show the trend in overall and exclusive breastfeeding rates at the First Visit by deprivation. Breastfeeding rates have increased in the most deprived areas of Scotland over the last decade. The overall breastfeeding rate at the First Visit in the most deprived areas (SIMD quintile 1) in 2013/14 was 31.7%; this has increased from 24.5% in 2004/05. At the 6-8 week review, 22.8% of babies in the most deprived areas were breastfed in 2013/14 compared with 18.4% in 2004/05.

The increase in overall breastfeeding rates in the most deprived areas (SIMD quintile 1) is mainly due to an increase in the percentage of mothers who are mixed feeding their child. For example, the percentage of babies in the most deprived areas who were mixed fed at the First Visit increased from 3.7% to 10.6% between 2004/05 and 2013/14, while the prevalence of exclusive breastfeeding has remained at a similar level over this period.
In the most affluent areas there has been an increase in the prevalence of mixed feeding and a decline in the prevalence of exclusive breastfeeding, particularly at the First Visit.

At the First Visit the percentage of babies in the least deprived areas (SIMD quintile 5) who were mixed fed increased from 7.5% in 2004/05 to 16.6% in 2013/14. The percentage of babies exclusively breastfed fell from 60.3% in 2004/05 to 52.4% in 2013/14. Similar trends are observed in SIMD quintile 4. The overall breastfeeding rate at the First Visit has remained fairly static in the most affluent areas over the last decade.

**Figure 9: Breastfeeding at the First Visit by Scottish Index of Multiple Deprivation (SIMD) 2012 quintile; All participating NHS Boards; Year of Birth 2004/05 – 2013/14**

Source: ISD Scotland, CHSP Pre-School Aug 2014
Figure 10: Exclusive Breastfeeding at the First Visit by Scottish Index of Multiple Deprivation (SIMD) 2012 quintile; All participating NHS Boards; Year of Birth 2004/05 – 2013/14

Source: ISD Scotland, CHSP Pre-School Aug 2014
Maternal Age and Deprivation

Older mothers are more likely to breastfeed but the increase in breastfeeding with age is less pronounced in the more deprived areas. The combined effect of the age of the mother and deprivation on breastfeeding rates is such that, for children born between 2004/05 and 2013/14, only 4.3% of younger mothers (under 20 years of age) in the most deprived areas were exclusively breastfeeding at 6-8 weeks compared with 18.5% of mothers aged 40 and over. In comparison, 10.9% of younger mothers in the least deprived areas were exclusively breastfeeding at 6-8 weeks compared with 45.9% of mothers aged 40 and over (Figure 11).

Figure 11: Exclusive Breastfeeding at the 6-8 Week Review by Maternal Age and Scottish Index of Multiple Deprivation (SIMD) 2012 quintile; All participating NHS Boards; Years of Birth 2004/05-2013/14

Source: ISD Scotland, CHSP Pre-School Aug 2014
Smoking

Exposure to second hand smoke has adverse effects on children's health and is known to significantly increase the risk of sudden infant death, middle ear disease, meningitis and admission to hospital for respiratory disease.

Maternal smoking status is recorded at the First Visit review. At the First Visit, non-smoking mothers are around three times as likely to exclusively breastfeed as mothers who smoke. This is likely to be a reflection of an association between smoking and other social and cultural factors. In 2013/14, 39.6% of non-smoking mothers exclusively breastfed their babies, compared with 13.7% of mothers who smoked. A similar pattern is seen across maternal age groups (Figure 12), deprivation categories and in the overall breastfeeding rate. Maternal smoking status is not collected at the 6-8 week review.

Figure 12: Exclusive Breastfeeding at the First Visit by Maternal Age and Smoking Status; Scotland; Year of Birth 2013/14

Source: ISD Scotland, CHSP Pre-School Aug 2014
Breastfeeding rates by maternal age, deprivation and smoking status are presented for financial years 2004/05 to 2013/14. For tables and charts please see:

- Breastfeeding by maternal age
- Breastfeeding by deprivation
- Breastfeeding by maternal age and deprivation
- Breastfeeding by maternal age and smoking status
- Breastfeeding by deprivation and smoking status

It can be seen that children from disadvantaged areas are likely to experience exposure to a range of factors associated with poorer health outcomes (such as exposure to second hand smoke and lack of breastfeeding). This clustering of risk factors is an important driver of inequalities in children’s outcomes.

**Breastfeeding rates in the UK**

Comparative data on breastfeeding rates for each of the countries in the UK is available in the [Infant Feeding Survey](#). The 2005 survey was the first to provide separate estimates for all four countries in the UK, as well as for the UK as a whole. The survey provides estimates of the breastfeeding initiation (i.e. the percentage of babies who were breastfed initially) as well as the prevalence and duration of breastfeeding. The survey also includes information on other feeding practices adopted by mothers from the birth of their baby up to around ten months and information about the smoking and drinking behaviour of mothers before, during and after pregnancy.

As previously discussed, results of the survey tend to give a higher breastfeeding rate in Scotland compared with the data from routine health reviews reported here, however the trends demonstrated are similar. As the survey is based on a sample, the results may be influenced by selective participation i.e. mothers who are breastfeeding may be more likely to respond and participate in the survey. This may explain why the survey reports higher breastfeeding rates in Scotland compared to the data reported here at broadly comparable stages (i.e. when babies are around 10 days and six to eight weeks of age).

Other relevant links:

- [Quarterly statistical releases](#) on breastfeeding initiation and 6-8 week breastfeeding in England are published by the Department of Health.

There are several sources of [breastfeeding data in Wales in development](#). Data on breastfeeding at birth is published in ‘Births in Wales 2003- 2013’ (published in August 2014) at the above link.

**Glossary**

CHSP Pre-School  
Child Health Systems Programme Pre-School

SIMD  
Scottish Index of Multiple Deprivation (SIMD) 2012

See also the Methods and Definitions section
<table>
<thead>
<tr>
<th>Table No.</th>
<th>Name</th>
<th>Time period</th>
<th>File &amp; size</th>
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<td>1, 2</td>
<td>Breastfeeding at the First Visit and 6-8 week review by NHS Board of Review</td>
<td>Financial years 2004/05 to 2013/14</td>
<td>Excel [246kb]</td>
</tr>
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<td>3, 4</td>
<td>Breastfeeding at the First Visit and 6-8 week review by Community Health Partnership</td>
<td>Financial years 2004/05 to 2013/14</td>
<td>Excel [359kb]</td>
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<tr>
<td>5, 6</td>
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<td>Excel [202kb]</td>
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<td>7, 8</td>
<td>Breastfeeding at the First Visit and 6-8 week review by Deprivation</td>
<td>Financial years 2004/05 to 2013/14</td>
<td>Excel [218kb]</td>
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<tr>
<td>9, 10</td>
<td>Breastfeeding at the First Visit and 6-8 week review by Maternal Age and Deprivation</td>
<td>Financial years 2004/05 to 2013/14</td>
<td>Excel [327kb]</td>
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<tr>
<td>11</td>
<td>Breastfeeding at the First Visit by Smoking Status and Maternal Age</td>
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<td>Excel [133kb]</td>
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<tr>
<td>12</td>
<td>Breastfeeding at the First Visit by Smoking Status and Deprivation</td>
<td>Financial years 2004/05 to 2013/14</td>
<td>Excel [144kb]</td>
</tr>
<tr>
<td>13, 14</td>
<td>Breastfeeding at the 6-8 week review by age of child at review</td>
<td>Financial years 2004/05 to 2013/14</td>
<td>Excel [220kb]</td>
</tr>
</tbody>
</table>

Analysis on the years not included in this update (2001/02 to 2003/04) can be found in the October 2012 publication.
Contact

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Further Information
Further information on the CHSP Pre-School system, including details of other analyses available, is given on the child health pages of the ISD website.

Information on other ISD publications and datasets can be found on the ISD website.

Rate this publication
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Appendix

A1 – Background Information

The main information on data sources, methods and definitions can be found in the main report – Methods and Definitions.

Timeliness

Data for babies born in the previous financial year are extracted in mid-August and published by ISD in October. This publication includes data on breastfeeding rates at the 6-8 week review and the maximum age limit for this review is recommended as 12 weeks. Therefore some babies born towards the end of the financial year i.e. in late March may not receive a 6-8 week review until late June and a few will be slightly later. Therefore there is approximately a 4 month data lag between the review taking place and the data being published. This allows time for the data to be recorded on the CHSP Pre-School system by NHS Boards and for these breastfeeding statistics to be produced by ISD.

Revisions history

In the annual publication released in October 2011, a new methodology was implemented to improve the accuracy of breastfeeding statistics by NHS Board, CHP and deprivation. The overall Scotland rates were not affected by the new methodology and the revision did not affect the overall interpretation or conclusions to be drawn from previously published data. Further information can be found in Appendix A1 of the 2011 publication.

Scottish Index of Multiple Deprivation 2012 (SIMD 2012)

Tables presenting information by deprivation category have been based on the Scottish Index of Multiple Deprivation (SIMD) 2012 quintiles. Quintile 1 represents most deprived and 5 represents least deprived. Deprivation for individuals is estimated from aggregate data derived from the census and other routine sources. These are used to estimate the deprivation of individuals in small geographical areas. The Scottish Index of Multiple Deprivation has seven domains (income, employment, education, housing, health, crime, and geographical access), which have been combined into an overall index to pick out area concentrations of multiple deprivation.

Further information about SIMD can be found at:
http://www.isdscotland.org/Products-and-Services/Deprivation/Deprivation-Overview

ISD analyses use numerators and denominators for population-weighted deprivation categories (eg quintiles or deciles). It is important not to mix these data with unweighted deprivation categories used by the Scottish Government (SG) and National Records of Scotland (NRS). More information on population weighted SIMD and SIMD based on datazones can be found on page 6 of the Guidance on Deprivation Measures.
Geographical information

NHS Board figures are based on NHS Board of review as recorded on CHSP Pre-School. For the vast majority of children, the NHS Board where they received their First Visit / 6-8 week review will be the same as their NHS Board of residence, although there will be some children who live in one NHS board area and attend a practice in a neighbouring NHS board. Records on the system for the former Argyll & Clyde board area have been mapped to either NHS Greater Glasgow & Clyde or NHS Highland board areas based on the child’s home postcode at the time of the review, or where this is not available, from home postcode at birth as derived from National Records of Scotland birth registrations. A small percentage of records for the former Argyll & Clyde board area could not be remapped due to missing postcode information; therefore the sum of the NHS Board areas does not equal the total for ‘All participating NHS Boards’.

Figures by CHP and Scottish Index of Multiple Deprivation (SIMD 2012) quintiles are based on the child’s home postcode at the time of the review, or where this is not available, from home postcode at birth as derived from National Records of Scotland birth registrations. Birth postcode is a proxy for postcode at review as few families will move home between the birth of their child and the First Visit/6-8 week review. For a small proportion of records postcode data is not available and therefore it is not possible to derive a CHP or SIMD quintile; these records are included in the “All participating NHS Boards” total. Figures for CHPs with a congruent health board (e.g. the island boards) may differ slightly from figures presented at board level due to records where a review or birth postcode is not available or there is no mapping to CHP.

Changes from previous publication

Previous Breastfeeding Statistic publications presented the tables for NHS Board, Community Health Partnership (CHP) and Council Area (CA). As approximate information by Council Area can be obtained by combining relevant CHP data (see table below) the separate breakdown of the information by CA is no longer provided.

<table>
<thead>
<tr>
<th>Community Health Partnership (CHP)</th>
<th>Local Council Area (LCA)</th>
<th>Best fit NHS Board¹</th>
</tr>
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<tr>
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<td>East Ayrshire</td>
<td>Ayrshire &amp; Arran</td>
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<td>2 North Ayrshire Community Health Partnership</td>
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</tr>
<tr>
<td>3 South Ayrshire Community Health Partnership</td>
<td>South Ayrshire</td>
<td></td>
</tr>
<tr>
<td>4 Scottish Borders Community Health &amp; Care Partnership</td>
<td>Scottish Borders</td>
<td>Borders</td>
</tr>
<tr>
<td>5 Dumfries &amp; Galloway Community Health Partnership</td>
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<th>Community Health Partnership (CHP)</th>
<th>Local Council Area (LCA)</th>
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<td>6. Dunfermline &amp; West Fife Community Health Partnership</td>
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<td>Fife</td>
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<td>7. Glenrothes &amp; North East Fife Community Health Partnership</td>
<td>Fife</td>
<td>Fife</td>
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<td>8. Kirkcaldy &amp; Levenmouth Community Health Partnership</td>
<td>Clackmannanshire</td>
<td>Forth Valley</td>
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<td>14. Moray Community Health &amp; Social Care Partnership</td>
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<td>15. East Dunbartonshire Community Health Partnership</td>
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<td>Greater Glasgow &amp; Clyde</td>
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<tr>
<td>18. Inverclyde Community Health &amp; Care Partnership</td>
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<td>20. Renfrewshire Community Health Partnership</td>
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<tr>
<td>23. West Dunbartonshire Community Health &amp; Care Partnership</td>
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<td>25. Argyll &amp; Bute Community Health Partnership</td>
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<td>36. Orkney Community Health Partnership</td>
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<tr>
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<td>Shetland</td>
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<tr>
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</tbody>
</table>

¹ Best fit NHS Board indicates the region where each Community Health Partnership (CHP) is most closely aligned. The table continues with additional CHPs for Inverclyde, Renfrewshire, and West Dunbartonshire, among others.
## Community Health Partnership (CHP) | Local Council Area (LCA) | Best fit NHS Board
--- | --- | ---
38 | Angus Community Health Partnership | Angus | Tayside
39 | Dundee Community Health Partnership | Dundee City | Tayside
40 | Perth & Kinross Community Health Partnership | Perth & Kinross | Tayside
41 | Western Isles Community Health and Social Care Partnership | Eilean Siar | Western Isles
42 | Edinburgh Community Health Partnership | Edinburgh, City of Lothian | Lothian
43 | Glasgow City Community Health Partnership | Glasgow City | Greater Glasgow & Clyde
44 | Highland Health and Social Care Partnership | Highland | Highland

### Data quality checks by ISD

Data are compared to figures for previous years and to expected trends.
## A2 – Publication Metadata (including revisions details)

<table>
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<th>Description</th>
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<td>Publication title</td>
<td>Breastfeeding Statistics</td>
</tr>
<tr>
<td>Description</td>
<td>Update of breastfeeding statistics at the First Visit and 6-8 week review. Data are presented by: NHS Board, Community Health Partnership, maternal age, deprivation and smoking status.</td>
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<tr>
<td>Theme</td>
<td>Health and Social Care</td>
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<tr>
<td>Topic</td>
<td>Child Health</td>
</tr>
<tr>
<td>Format</td>
<td>PDF document and Excel workbooks</td>
</tr>
<tr>
<td>Data source(s)</td>
<td>Child Health Systems Programme Pre-School (CHSP Pre-School)</td>
</tr>
<tr>
<td>Date that data are acquired</td>
<td>11th August 2014</td>
</tr>
<tr>
<td>Release date</td>
<td>28 October 2014</td>
</tr>
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<td>Frequency</td>
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<tr>
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<td>Includes children born up to 31 March 2014 and 6-8 week review data to June/July 2014. No delays between data availability and processing of data for publication.</td>
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<tr>
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<td>Data are available for financial years 2001/02 to 2013/14 but are only presented for the latest ten year period. Information on the financial years not included in this update can be found in the October 2012 publication.</td>
</tr>
<tr>
<td>Continuity of data</td>
<td>The number of NHS Boards included in these statistics has increased from 10 Boards in 2004/05 to all 14 Boards in Scotland in 2011/12. This should be borne in mind when comparing the ‘All participating NHS Boards’ breastfeeding rates for 2011/12 to 2013/14 with previous years however the impact on the continuity of the data is small. See Data Completeness for further information.</td>
</tr>
<tr>
<td>Revisions statement</td>
<td>The publication is produced from the latest data extract from CHSP-PS which is a dynamic system, with ongoing updating of records. Data for the previous financial year are updated in the next release though any updates are expected to be minor. Occasionally data for earlier financial years may be updated where the publication includes a new presentation of the data as a time-series (for example a new geographical breakdown). This is to ensure there is...</td>
</tr>
</tbody>
</table>
consistency in the totals (for example the denominator number of reviews) presented for each year across the publication. Any changes are expected to be negligible.

<table>
<thead>
<tr>
<th>Revisions relevant to this publication</th>
<th>Data for 2012/13 have been updated. At Scotland level, there is no impact on the reported breastfeeding rates at the First Visit or 6-8 week review.</th>
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<tr>
<td>Concepts and definitions</td>
<td>See <a href="#">Methods and Definition</a>.</td>
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<tr>
<td>Relevance and key uses of the statistics</td>
<td>Making information publicly available for planning, epidemiology, provision of services and providing comparative information. See <a href="#">How breastfeeding statistics are used</a>.</td>
</tr>
<tr>
<td>Accuracy</td>
<td>This is an established data collection which covers a very high proportion of the target population. These data are reliable indicator of breastfeeding rates in Scotland</td>
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<tr>
<td>Completeness</td>
<td>See <a href="#">Data Completeness</a>.</td>
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<tr>
<td>Comparability</td>
<td>See ‘Differences in definition of exclusive breastfeeding with data from other sources’ in <a href="#">Methods and Definitions</a> and <a href="#">Breastfeeding rates in the UK</a>.</td>
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<tr>
<td>Accessibility</td>
<td>It is the policy of ISD Scotland to make its web sites and products accessible according to <a href="#">published guidelines</a>.</td>
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<tr>
<td>Coherence and clarity</td>
<td>Breastfeeding tables and charts are accessible via the <a href="#">ISD website</a>. Drop down menus are presented for selection of geography i.e. NHS Board and Community Health Partnership.</td>
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<tr>
<td>UK Statistics Authority Assessment</td>
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<tr>
<td>Last published</td>
<td>29 October 2013</td>
</tr>
<tr>
<td>Next published</td>
<td>October 2015</td>
</tr>
<tr>
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<tr>
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</table>
A3 – Early Access details (including Pre-Release Access)

Pre-Release Access
Under terms of the "Pre-Release Access to Official Statistics (Scotland) Order 2008", ISD are obliged to publish information on those receiving Pre-Release Access ("Pre-Release Access" refers to statistics in their final form prior to publication). The standard maximum Pre-Release Access is five working days. Shown below are details of those receiving standard Pre-Release Access and, separately, those receiving extended Pre-Release Access.

Standard Pre-Release Access:
- Scottish Government Health Department
- NHS Board Chief Executives
- NHS Board Communication leads

Extended Pre-Release Access
Extended Pre-Release Access of 8 working days is given to a small number of named individuals in the Scottish Government Health Department (Analytical Services Division). This Pre-Release Access is for the sole purpose of enabling that department to gain an understanding of the statistics prior to briefing others in Scottish Government (during the period of standard Pre-Release Access).
- Scottish Government Health Department (Analytical Services Division)

Early Access for Management Information
These statistics will also have been made available to those who needed access to ‘management information’, ie as part of the delivery of health and care:
- NHS Board Directors of Public Health
- NHS Board Infant Feeding Leads
- Chair of CHSP Pre-School national User Group
A4 – ISD and Official Statistics

About ISD

Scotland has some of the best health service data in the world combining high quality, consistency, national coverage and the ability to link data to allow patient based analysis and follow up.

Information Services Division (ISD) is a business operating unit of NHS National Services Scotland and has been in existence for over 40 years. We are an essential support service to NHSScotland and the Scottish Government and others, responsive to the needs of NHSScotland as the delivery of health and social care evolves.

**Purpose:** To deliver effective national and specialist intelligence services to improve the health and wellbeing of people in Scotland.

**Mission:** Better Information, Better Decisions, Better Health

**Vision:** To be a valued partner in improving health and wellbeing in Scotland by providing a world class intelligence service.

Official Statistics

Information Services Division (ISD) is the principal and authoritative source of statistics on health and care services in Scotland. ISD is designated by legislation as a producer of ‘Official Statistics’. Our official statistics publications are produced to a high professional standard and comply with the Code of Practice for Official Statistics. The Code of Practice is produced and monitored by the UK Statistics Authority which is independent of Government. Under the Code of Practice, the format, content and timing of statistics publications are the responsibility of professional staff working within ISD.

ISD’s statistical publications are currently classified as one of the following:

- National Statistics (ie assessed by the UK Statistics Authority as complying with the Code of Practice)
- National Statistics (ie legacy, still to be assessed by the UK Statistics Authority)
- Official Statistics (ie still to be assessed by the UK Statistics Authority)
- other (not Official Statistics)

Further information on ISD’s statistics, including compliance with the Code of Practice for Official Statistics, and on the UK Statistics Authority, is available on the [ISD website](#).

The United Kingdom Statistics Authority has designated these statistics as National Statistics, in accordance with the Statistics and Registration Service Act 2007 and signifying compliance with the Code of Practice for Official Statistics. Designation can be broadly interpreted to mean that the statistics:

- meet identified user needs;
- are well explained and readily accessible;
- are produced according to sound methods, and
- are managed impartially and objectively in the public interest.

Once statistics have been designated as National Statistics it is a statutory requirement that the Code of Practice shall continue to be observed.