INFANT FEEDING 2000

A survey conducted on behalf of the Department of Health, the Scottish Executive, the National Assembly for Wales and the Department of Health, Social Services and Public Safety in Northern Ireland.

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Summary of main findings

The 2000 Infant Feeding Survey is the sixth national survey of infant feeding practices. The main aims of the survey are to provide national figures on the incidence, prevalence and duration of breastfeeding and other feeding practices adopted by mothers in the early weeks up to around nine months after the baby's birth.

Three stages of data collection were conducted and the survey is based on an initial national representative sample of nearly 9,500 mothers of babies born in the United Kingdom in 2000.

When comparing results with 1995, trend results should be seen in the context of changes in the population of mothers. Consistent with population changes, the sample of mothers in the 2000 survey were older and better educated when compared with the sample of mothers in 1995.

Incidence & duration of breastfeeding (Chapter 2)

Initial breastfeeding rates in 2000 were 71% in England and Wales, 63% in Scotland and 54% in Northern Ireland, this representing a significant rise since 1995 in all countries. The increase in breastfeeding incidence in England and Wales could be mainly accounted for by changes in the age and educational profiles of mothers. The increased incidences in Scotland and Northern Ireland, however, remained significant even after taking into account changes in the characteristics of the sample of mothers.

The highest incidences of breastfeeding were found among mothers from higher occupations, with the highest educational levels, aged 30 or over, from ethnic minority backgrounds, and among mothers of first (as opposed to later) babies.

Compared with 1995, significantly more mothers of later babies in 2000 were changing their feeding behaviour. In the United Kingdom, a quarter (26%) of mothers of later babies changed their behaviour by initiating breastfeeding, compared with less than a fifth (18%) in 1995.

Two-fifths (42%) of mothers were breastfeeding at six weeks, this halving to 21% of mothers breastfeeding at six months. Although the initial incidence of breastfeeding has increased significantly in all countries from 1995, only in Scotland did this increase remain significant beyond initiation at birth. Increases in prevalence of breastfeeding in Scotland were observed at all ages up to 9 months.

In the early weeks, breastfeeding mothers were more likely to be giving milk solely from the breast, as opposed to mixed milk feeds. Mothers from higher socio-economic groups and with a higher educational level were the most likely to provide milk from the breast alone at each stage of the survey.

The use of milk other than breast milk (Chapter 3)

In 2000, 30% of mothers in the United Kingdom did not breastfeed at all and gave infant formula as the sole source of nutrition from birth. By the first stage of the survey, when the babies were around four to ten weeks old, almost six in ten (58%) had switched entirely to infant formula milk, and three-quarters (75%) were using infant formula milk either entirely or in conjunction with breastmilk.

Among bottle-feeding mothers, two-thirds (64%) were giving a whey dominant as opposed to case in dominant formula at 4-10 weeks, this reducing to two-fifths (41%) at 4-5 months. By 8-9 months, a fifth (20%) of bottle feeding mothers were using whey dominant and three in ten (30%) case in dominant formula. Over a third (37%) were using follow-on formula milk at this stage, a significant increase from 25% in 1995.

At 8-9 months old, 8% had introduced cow's milk as the main milk drink (down from 15% in 1995). Just under three in ten (28%) had introduced it as a secondary drink and just under half (47%) were using it to mix food. In total, 54% had introduced cow's milk to their baby in some way by stage three of the survey (61% in 1995).

Antenatal care, smoking & drinking (Chapter 4)

Almost two-thirds (64%) of mothers of first babies had been to antenatal classes, a decline on the proportion in 1995 (70%).

Nine in ten mothers (92%) knew that increasing their intake of folic acid in early pregnancy could be beneficial, a significant increase from 1995 when 75% were aware of this. Almost nine in ten (89%) of all mothers had increased their intake in early pregnancy, mainly through supplementation (73%) rather than changing their diet (31%).

Just over a third (35%) of mothers in the United Kingdom smoked in the twelve months before or during their pregnancy. Three percent of mothers gave up smoking less than a year before pregnancy and were still not smoking at stage one of the survey and a further 11% gave up on confirmation of pregnancy and stayed quit. Thus a fifth (20%) of women in the UK continued to smoke throughout their pregnancy (although most cut down).

Six in ten mothers (61%) drank during pregnancy, a decline on the position in 1995, when two-thirds (66%) did so. The majority of those drinking in pregnancy (71%) drank less than one unit per week on average.

86% of smokers received information on the effect of smoking during pregnancy (no change from 1995). 77% of women who drank received advice on the effect of alcohol (up from 71% in 1995).

Choice of feeding method (Chapter 5)

Two-thirds (65%) of mothers in the United Kingdom said that they planned to breastfeed their baby, this figure ranging from 51% in Northern Ireland, to 60% in Scotland and 66% in England and Wales. There was a high correlation between intentions and behaviour.

First-time mothers were more likely to intend to breastfeed than mothers of later babies (70% compared to 60% in the UK). Among mothers of later babies, those who had breastfed their previous baby for at least 6 weeks were much more likely than mothers who had exclusively bottle fed their previous baby to plan to breastfeed (94% compared with 21%).

The most common reason for choosing to breastfeed was that breastfeeding was best for the baby's health, followed by convenience. The most common reason for choosing to bottle-feed was that it allowed others to feed the baby, followed by a dislike of the "idea" of breastfeeding.

Three-quarters (76%) of mothers were able to state a specific health benefit in breastfeeding. Knowledge about health benefits increased with age, educational level, and occupational level.

One in ten mothers who breastfed (9%) said that they felt pressured into this decision, rising to 12% of first-time mothers who breastfed. This pressure was mainly linked to midwives (76% of those feeling this way).

The birth & post-natal care (Chapter 6)

Mothers who experienced a delay before they first fed their baby were more likely to have given up breastfeeding in the first two weeks than were mothers who breastfed their baby immediately.

Use of formula milk in hospital was a strong indicator of mother giving up breastfeeding after leaving hospital. Two fifths (40%) of breastfeeding mothers whose babies had been given a bottle while in hospital had stopped breastfeeding within two weeks, compared with one in eight breastfeeding mothers (13%) whose babies had not been given a bottle.

32% of breastfeeding mothers experienced problems feeding their baby in hospital, and a similar proportion (35%) experienced feeding problems once they had left hospital. Mothers who did not receive help for these problems were more likely to have given up breastfeeding within the first two weeks than those who received help.

13% of bottle-feeding mothers experienced feeding problems in hospital and 12% experienced problems after they left. Compared with breastfeeding mothers who had problems, bottle-feeding mothers were more likely to cite difficulties relating to the health of the baby including vomiting and colic.

Feeding after the early weeks (Chapter 7)

One in six mothers (16%) had experienced problems feeding their baby between stages one and two, and one in eight (12%) between stages two and three. The problems experienced by bottle-feeding and breastfeeding mothers varied. Between the ages of about 4-10 weeks and 4-5 months, problems experienced by bottle-feeding mothers were mainly related to the baby (remaining unsatisfied after a feed, vomiting, illness or colic). Among breastfeeding mothers, however, problems tended to be centred on feeding techniques (baby refusing a bottle or painful breasts).

The majority of mothers (82% at stage two, 69% at stage three) reporting feeding problems had been given help or advice, most commonly received from the health visitor.

Reasons for giving up breastfeeding varied with the duration of breastfeeding. In the early weeks, baby rejecting the breast and painful nipples were the common reasons for cessation. In later weeks, up to about four months, mothers perceiving that they had insufficient milk was the most important factor. In later months, returning to work was the major reason for mothers reducing breastfeeding.

Mothers overall experience of breastfeeding was generally very positive. Nine in ten mothers (90%) who gave up breastfeeding within six weeks of birth would have liked to have breastfed for longer, and most mothers who breastfed (88%) said they would breastfeed another baby.

When the babies were around eight to nine months old, half (49%) of mothers were working, and in the majority of cases (68%) this was on a part-time basis. Mothers working part-time were more likely to continue breastfeeding while working, and 6% were still giving milk solely from the breast.

Additional drinks and supplementary vitamins (Chapter 8)

Just over half (55%) of mothers were giving their baby drinks other than milk at four to ten weeks. Mothers who where bottle feeding were more likely to have introduced other drinks (76%) than women who were breastfeeding (27%). Water was the most commonly mentioned additional drink at all three stages. Compared with 1995, there has been a marked shift away from sweetened drinks to unsweetened drinks and water.

At four to ten weeks, just 4% of babies received additional vitamins, 5% at four to five months and 10% at eight to nine months. These figures continue a longer-term trend in the declining use of this practice over the survey years.

A third (35%) of breastfeeding mothers were taking vitamin supplements and/ or iron tablets at stage one, falling to just over a quarter at the four and nine month stages (27% and 26% respectively).

Solid foods (Chapter 9)

Compared with 1995, mothers in 2000 were introducing solids later. By three months, a quarter of mothers (24%) had introduced solid foods, less than half the proportion recorded in 1995 (56%). The majority (85%) had introduced solids by the age of four months and by six months, virtually all babies had been introduced to solid food.

Despite this movement towards later introduction of solids, a high proportion of mothers was starting solid food earlier than thought desirable. Only half (49%) of mothers had introduced solids within the recommended window of four to six months (17 to 26 weeks), the large majority of the remainder introducing solids before 17 weeks (49% of all mothers).

Solid food tended to be introduced at a younger age among mothers in Northern Ireland, mothers of babies with heavier birth weights, those in lower occupational groups, and mothers with lower educational levels.

When babies were four to five months old, mothers giving solids were more likely to give commercially prepared babyfood (62%) than home-made food (38%), although by eight to nine months this had reversed, with seven in ten mothers (70%) giving home-made food compared with 52% giving babyfood.

In choosing which solid foods to give their baby, mothers at stage two most frequently took account of the nutritional value of foods, either in general terms or specifically relating to sugar, vitamins, gluten or salt. Half (47%) of stage three mothers avoided particular ingredients, most commonly sugar, salt and nuts. The most common reason for avoiding ingredients was allergies – this being a reason for a third (35%) of avoidances.

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First and foremost, we would like to thank all the mothers who participated in the survey.

Their co-operation was essential to the success of the survey and ensured we achieved valuable insights into trends in infant feeding practices over recent years.

In the United Kingdom Health Departments, our thanks go to all who contributed. In particular, our thanks go to Dr. Sheela Reddy, Mrs Christine Carson and Mr John O'Shea for their support and assistance and to Mr. Robert Wenlock and Mr Anthony Boucher whose efforts were greatly appreciated in the preparation of the survey in its initial stages.

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Finally, we would like to thank all our colleagues at BMRB who have provided help and support in the organisation of questionnaire distribution, fieldwork and data analysis, especially our chief statistician, Mr Rick Loyd, and his colleague Andrew Parnell.

Notes to Tables

Base numbers are shown in italics and are weighted bases. Weighting factors have been adjusted so that the weighted sample size for all mothers is equal to the number of mothers responding at that stage. In previous survey years, weighting factors were adjusted to give the same total weighted sample size at each of the three stages of the survey, which will explain the differences in weighted sample sizes between years.

In general, very small bases have been avoided by combining adjacent categories. Where the base for a category is less than 50, the base and percentage are both shown in brackets [].

The conventions used in tables are as follows:

- No cases

- * Percentage less than 0.5%
- n/a Data not available
- [] Percentage based on less than 50 cases

Percentages: Row or column percentages may add to 99% or 101% due to the effects of rounding

Statistical significance. Unless otherwise stated, changes and differences mentioned in the text are statistically significant at the 95% confidence level.

ا Introduction

1.1 Background & objectives

The 2000 Infant Feeding Survey is the sixth national survey of infant feeding practices. The survey was carried out by BMRB Social Research on behalf of the four United Kingdom Health Departments. Fieldwork in Northern Ireland was carried out by the Central Survey Unit of the Northern Ireland Statistics and Research Agency (NISRA).

Government policy has consistently supported breastfeeding as the best way of ensuring a healthy start for infants. In the 1970's, with the rates of breastfeeding declining, the COMA Working Party was set up to review infant feeding¹. The recommendations included that mothers should be encouraged to breastfeed. It also recommended mothers to be discouraged from introducing solid foods to their infants before four months old. Subsequent reports about infant feeding have continued to endorse these recommendations²³⁴.

The expert Working Party also recommended that a national survey be conducted to establish basic information about infant feeding practices. The first survey took place in 1975⁵ and provided baseline statistics about infant feeding practices in England and Wales. Surveys have hence been conducted every five years since. The 1980⁶ and 1985⁷ surveys also covered Scotland, and from 1990⁸ all four countries of the United Kingdom were covered by the infant feeding surveys. The 1975-1995 surveys were conducted by the Office of National Statistics.

The 1975 survey found that 51% of mothers in England and Wales breastfed at birth. In 1980, this proportion increased to 67%, and the figure for Scotland was 50%. The results of the 1985 survey showed that breastfeeding rates had not risen and, further, that there was a high rate of early discontinuation of breastfeeding.

Following the results of the 1985 Survey, the Department of Health engaged in a consultation process to find ways of promoting breastfeeding. This concluded in the setting up of the Joint Breastfeeding Initiative in 1988. The Initiative's aims were to encourage a closer working relationship between health professionals and voluntary organisations. In 1995, following the WHO/UNICEF adoption of the breastfeeding declaration, the National Breastfeeding Working Group was established. This was a multidisciplinary group whose objective was to publish a document, which is now known as, "*Breastfeeding – Good Practice Guidance to the NHS*"⁹.

In 1995, the National Network of Breastfeeding Co-ordinators (NNBC) was established. The NNBC is a multidisciplinary group with representation from professional and voluntary organisations. The remit for this group is to build on the work of the National Breastfeeding Working Group in the promotion and protection of breastfeeding. This is done by stimulating and sustaining action at a local level and sharing ideas nationally, with the aim of increasing both the number of mothers who breastfeed and the length of time they continue to breastfeed. The 1990 survey failed to show an improvement from 1985 in breastfeeding initiation rates for England & Wales and Scotland, although it was considered that the programmes of support described above had begun too recently to have had an impact on mothers' behaviour. (The 1990 survey also recorded a baseline breastfeeding initiation rate for Northern Ireland of 36%). The 1995 survey, however, did show an improvement in all countries of the United Kingdom.

The Infant Feeding Initiative was launched in 1999, as part of the Government's commitment to improve health inequalities. A budget of nearly £3m over a 3-year period from the Public Health Development Fund has enabled a range of activities to be undertaken. The aim of the initiative is to increase the incidence and duration of breastfeeding amongst those groups of the population where breastfeeding rates are lowest, as well as to help all women to make informed choices about how they feed their infant. Two National Infant Feeding Advisers have been appointed to support the work of the Infant Feeding Initiative

To date, 79 projects have been funded across all eight health regions in England to identify and communicate 'best practice' and to increase breastfeeding rates amongst those least likely to choose to breastfeed. A project has also been funded to find out whether midwives can be trained to make changes in their practice in relation, to a breastfeeding intervention and what impact a midwifery intervention would have to enable mothers to sustain their method of infant feeding.

Most recently, in July 2000, the *NHS Plan – A plan for investment and reform* was presented to Parliament which included a commitment by the Government for increased support for breastfeeding.

Given this background context, there is expected to be considerable interest in the results of the 2000 survey, in how trends in infant feeding have developed, and particularly among those subgroups of mothers where breastfeeding rates are lowest.

Smoking and drinking in pregnancy

The Infant Feeding Survey series has also been used to track the proportion of mothers who smoke and drink during pregnancy, and to look at patterns of smoking and drinking behaviour before, during and after the birth.

Of particular relevance to the 2000 survey, the Tobacco White Paper '*Smoking Kills*' was published in December 1998 and contains the Government's anti-smoking strategy. This White Paper highlighted smoking among pregnant women as a key area, and included the target:

'To reduce the percentage of women who smoke during pregnancy from 23% to 15% by the year 2010; with a fall to 18% by the year 2005'

The 2000 survey therefore measures progress towards this target¹⁰.

Aims of the survey

The main aims of the 2000 survey match those of the earlier Infant Feeding Surveys and are as follows:

- To establish how infants born in 2000 are being fed and to provide national figures on the incidence, prevalence and duration of breastfeeding.
- To examine trends in infant feeding practices over recent years, in particular since 1995.
- To investigate the factors associated with mothers' feeding intentions and with the feeding practices adopted in the early weeks.
- To establish the age at which solid foods are introduced and to examine weaning practices up to nine months.

As in 1995, the survey involved approaching a sample of mothers when their babies were aged four to ten weeks (Stage 1), with follow-up questionnaires at four to five months (Stage 2) and at about nine months (Stage 3).

1.2 **Definitions used in the survey**

A number of terms defined for the infant feeding surveys since 1975 are used in this report. The definitions are as follows.

Breastfed initially refers to all babies whose mothers put them to the breast, even if this was on one occasion only.

Incidence of breastfeeding refers to the proportion of sampled babies who were breastfed initially.

Prevalence of breastfeeding refers to the proportion of all sampled babies who were wholly or partially breastfeed at specified ages.

Duration of breastfeeding is the length of time for which breastfeeding continued at all, regardless of when non-breast milk and other drinks or foods were introduced.

Mothers giving milk only from the breast refers to babies who were being provided with milk solely from the breast, with no additional formula or cows' milk. However, these babies may also have been receiving solids and/or additional non-milk drinks.

Stages of the survey

The approximate age of babies at the different stages of the survey were as follows:

Stage 1: babies aged 4-10 weeks Stage 2: babies aged 4 to 5 months Stage 3: babies aged 8 to 9 months

1.3 Summary of survey methodology

Full details of survey methodology have been provided in Appendix I. However, a summary is provided below.

- A total of 13,112 births were selected from all births occurring in the period August 19th-October 19th 2000: 7382 in England & Wales, 3113 in Scotland and 2617 in Northern Ireland. In England and Wales, the babies selected were clustered within 100 registration sub-districts. In Scotland and Northern Ireland, births were sampled across all registration districts.
- In selecting the samples, births to mothers whose partner was classified from his birth registration details as social class V, where no father was recorded, or where the social class details were unclassified, were given twice the chance of selection as mothers whose partner was classified to social classes I-IV.
- The initial despatch of questionnaires was conducted during October-December 2000, with the aim of contacting mothers when their babies were about six weeks old. Three reminders were sent to all mothers who had not responded to the previous mailouts. The overall response rate at Stage 1 was 72% (n=9492).
- For the second stage of the survey, a further despatch took place in January/February 2001 to all mothers who responded at Stage 1. Two postal reminders were sent, followed by an interviewer visit to all mothers who had not responded to the postal reminders. The response rate at Stage 2, based on all responding at Stage 1, was 87% (n= 8299).
- For the third stage of the survey, a despatch took place during June/July 2001 to all mothers who responded at Stage 2. As in Stage 2, this was followed by two postal reminders and an interviewer visit. The response rate at Stage 3, based on all those responding at Stage 2, was 88% (n=7267).
- At Stage 1, the data were weighted to correct for differential sampling of mothers with different social classes, from different countries, and to correct for non-response bias by social class group. Further weighting was applied at Stages 2 and 3 to correct for further non-response bias introduced through sample attrition at the later stages.

1.4 Making comparisons with results from the 1995 survey

One of the main aims of the 2000 survey is to provide data on trends in infant feeding, so this section considers the main factors which might affect comparisons over time.

There are four factors which should be taken into consideration.

Sampling error

The results of sample surveys are subject to sampling error due to the chance variations between a particular sample and the whole population from which it has been drawn. When comparing results from two separate samples, each will be subject to sampling error and so observed changes over time may be attributable to sampling variation. Sampling errors are affected both by the size of the sample subgroup on which the estimates are based and by the variability of the particular measure within the sample. They will also be affected by the complexity of the sample design. Further details and examples of standard errors for key variables are given in Appendix III.

Non-response

Both surveys are subject to possible biases due to non-response. The 2000 survey was shown to have differential response rates by social class group at all stages, and the data were weighted to correct for this (see Appendix I). The achieved samples in each year, after weighting, can be validated by comparison with registration data for all births in the relevant year (see Appendix II). The comparison shows that the 2000 weighted sample was similar, in terms of the characteristics compared, including mothers' age and social class, to all births in the United Kingdom.

Changes in the characteristics of mothers

Any significant changes in the characteristics of the sample of mothers in different years will affect the interpretation of trend data, and this will be particularly influential if these characteristics are themselves associated with key survey measures. Comparison of the main characteristics of mothers in the 1995 and 2000 samples are shown in Tables 1.1 to 1.4 and further details are given in Appendix II (Tables II.4 to II.11). In line with changes in the population as a whole, the 2000 survey showed clear differences from the 1995 sample on key measures. Many of these changes continue trends which were also evident between 1990 and 1995.

- Mothers in the 2000 survey were older than those sampled in 1995, in each of the countries of the United Kingdom. In England and Wales, 46% of women were aged 30 or over compared with 40% in 1995 (*Table 1.1*). Tables II.5 and II.6. in Appendix II show that this increase is concentrated within the higher social class and more educated subgroups of the sample.
- Mothers in 2000 were more educated than mothers in the 1995 sample. In England and Wales, 28% of mothers were educated to higher education age (19 or over) compared with 20% in 1995. (*Table 1.2*)
- The 2000 survey showed a reduction in the proportion of mothers coded to social class "unclassified/no partner" which makes the distributions of social class difficult to compare. However, there is no evidence to suggest that the social class distribution has changed. (*Table 1.3*)
- Babies in 2000 were slightly more likely than babies in 1995 to be born as a first baby rather than a second or subsequent baby. In England and Wales, 47% of babies were first babies, compared with 45% in 1995. (*Table 1.4*)

	England	& Wales	:	Scotland	Northern Irela		
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Under 20	6	7	6	6	5	6	
20-24	19	18	18	16	16	15	
25-29	34	28	34	29	35	30	
30-34	28	30	30	31	29	33	
35+	12	16	12	18	14	16	
All aged 30+	40	46	41	49	43	49	
Base: All mothers	4598	5441	1863	2274	1476	1779	

Table 1.1

Distribution of sample by mother's age and country (1995 & 2000)

Table 1.2

Distribution of sample by age at which mother completed full-time education and country (1995 & 2000)

	England	& Wales	:	Scotland	Northern Ireland		
		2000 %	 1995 %	2000 %		2000 %	
16 or under	45	37	44	36	32	25	
17 or 18	35	34	33	33	43	40	
19 or over	20	28	23	31	24	34	
Base: All mothers	4598	5441	1863	2274	1476	1779	

Table 1.3

Distribution of sample by social class as defined by current or last occupation of husband or partner by country (1995 & 2000)

	England	& Wales	2	Scotland	Northern Ireland		
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
1	7	7	8	7	6	5	
Ш	25	25	21	24	22	21	
IIINM	8	9	7	9	11	10	
All non-manual	39	41	36	41	38	36	
IIIM	24	26	24	26	22	29	
IV	11	11	12	11	8	11	
V	4	4	4	5	4	3	
All manual	38	40	39	42	38	43	
Unclassified/no partner	22	19	25	18	24	21	
Base: All mothers	4598	5441	1863	2274	1476	1779	

Table 1.4

Distribution of sample by birth order and country (1995 & 2000)

	England & Wales		9	Scotland	Northern Ireland		
	1995	2000	1995	2000	1995	2000	
	%	%	%	%	%	%	
First baby	45	47	47	49	39	41	
Later baby	55	53	53	51	61	59	
Base: All mothers	4598	5441	1863	2274	1476	1779	

Age of babies at the three survey stages

Many of the questions on the survey relate to feeding practices at the time the mother completes the questionnaire. Thus, comparison of these variables over time may also be affected by differences in the age distribution of the babies at each stage of the survey. This of course does not affect variables which are based on specific ages of the baby such as duration of breastfeeding, age of introduction of solid foods etc. However, it may affect comparison of questions which were based on the mother's behaviour and opinions at the time she completed the questionnaire e.g. whether the baby has had a developmental check up by the time the mother completed the Stage 1 questionnaire, or whether the baby was receiving additional drinks at the time of the Stage 2 survey. Differences can result from changes in sampling registration procedures, or simply because of changes in the speed with which mothers respond to the postal request. There were two main changes between 1995 and 2000 which have influenced the age profile of babies.

- Firstly, there was a change in the method of sampling births for England, Wales and Scotland by ONS. In 2000, the mailout was staggered over eight phases, which meant that mothers received questionnaires earlier than they would have done in 1995, when the mailout was less staggered. As a result of this, at Stage 1, babies in the England & Wales and Scotland sample were, on average, younger than those in the 1995 sample (46 days compared with 57 days in England and Wales, and 54 days compared with 71 days in Scotland). In Northern Ireland, where mailout procedures remained similar, there was no change in the average age of babies. As a result of the changes in England and Wales and Scotland, fewer babies in 2000 were aged between six and ten weeks (in the UK 54% compared with 78% in 1995). In 2000, 84% of babies were found to be aged between four and ten weeks. Therefore, in this report, the age of the babies at Stage 1 of the survey has been described as "four to ten weeks" rather than "six to ten weeks" as in previous surveys.
- Secondly, there was a difference in the pattern of response from mothers at Stages 2 and 3 in 2000 (see Appendix I). In 2000, a lower rate of mothers than in 1995 responded to the postal enquiry, and a higher rate of mothers responded to the interviewer enquiry. Thus, although the overall response rates at Stages 2 and 3 were similar for the two survey years, the 2000 survey picked up more mothers in the later stages of fieldwork. As a result of this, the difference between the ages of babies between 1995 and 2000 at Stage 1 began to even out by Stage 3. At Stage 1, in the UK, babies were on average 10 days younger in 2000 than in 1995. By Stage 2, this gap had widened to around 2 weeks. However, by Stage 3, babies in 2000 had the same average age as babies in 1995. See *Table 1.5*.

Table 1.5

Age of baby at the three stages of the survey

		England & Wales	9	Scotland	Ν	lorthern Ireland	H	United (ingdom
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
Mean age of babies at:								
Stage 1 (days)	57 days	46 days	71 days	54 days	61 days	60 days	58 days	48 days
Stage 2 (nearest week)	22 wks	20 wks	23 wks	21 wks	24 wks	20 wks	22 wks	20 wks
Stage 3 (nearest week)	39 wks	39 wks	41 wks	41 wks	39 wks	39 wks	39 wks	39 wks
Percentage of babies								
Aged 6-10 weeks at Stage 1	78	50	76	80	86	82	78	54
Aged 4-10 weeks at Stage 1	n/a	86	n/a	88	n/a	83	n/a	84
Base:	4598	5441	1867	2274	1476	1778	5181	9492

1.5 Further notes about comparisons between data from 1995 and 2000

Comparison of survey universes

In the infant feeding surveys between 1980 and 1990 inclusive, data were collected from England & Wales and Scotland only. Thus, historically, data on the total sample have been presented on Great Britain. This practice was continued to a large extent in the 1995 report when making comparisons with previous surveys. However, in 2000, data for the total sample have been exclusively presented on the United Kingdom. Thus, when a table shows longer-term trends, it is sometimes the case that data pre-2000 are presented on Great Britain, with 2000 data presented on the United Kingdom. As the data from Northern Ireland contributed relatively little to the overall totals, due to the effects of weighting, the differences between Great Britain and the United Kingdom are negligible in the large majority of cases. Nevertheless, where trend tables show data from different years based on different universes, this has been clearly noted in the table.

Comparison of weighted bases

In both 1995 and 2000, weighted bases are shown in all tables. In 1995, the bases used in tables were scaled to a single base, regardless of which stage the data related to. Thus when data were analysed on "all mothers" this was uniformly set to 5018, whether the data originated from Stage 1, 2 or 3. In 2000, however, a decision was made to scale the weighted base to the total number of responding mothers at each stage, as this gives readers a much better indication of the actual number of respondents included in the base. Thus "all mothers" varies from 9492 at Stage 1, to 8299 at Stage 2, to 7267 at Stage 3. Therefore, when making comparisons between the survey years, the large differences in weighted bases can be attributed to changes in the scaling of bases rather than changes in numbers of responding mothers.

As in 1995, when results for each country are shown separately, they are weighted only to compensate for differential non-response and the over-sampling of lower social class groups. When results are based on the United Kingdom as a whole, then the additional weighting to compensate for over-sampling in Scotland and Northern Ireland is also applied.

1.6 Analysis by socio-economic classifications

In all past infant feeding surveys up to and including 1995, mothers socio-economic position was defined by social class based on current or most recent occupation of their husband or partner. However, in the 2000 survey there have been two important changes in the method of classifying mothers according to their socio-economic position.

- The first major change has been in the system of classification. In 2001, following the Census, the system of classifying respondents for government surveys in terms of their socio-economic position changed. Formerly, and in all previous infant feeding surveys, occupations were classified according to Social Class. However, this survey changes to the new ONS classification the **National Statistics Socio-Economic Classification (NS-SEC)**¹¹. The new classification aims to differentiate positions in terms of their "employment relations" rather than "skill" level. Occupations are no longer classified according to the "manual/non-manual" divide.
- Secondly, a decision was made to base the classification in 2000 on **mother's** as opposed to **partner's** occupation. Previous surveys have retained the practice of using the partner's occupation to classify mothers, which has had the advantage of maintaining comparability throughout the survey series. However, this practice is no longer considered desirable. In particular, in this survey where we are looking at the opinions and behaviours of mothers, it is likely that their **own** socio-economic position could influence their behaviour. Thus, the classification is based on mother's occupation at the time of the first stage of the 2000 survey (including any job from which they were taking maternity absence). Where a mother was not working at the time of the Stage 1 survey, the classification has been based on the mother's previous occupation. Mothers who had never worked are classified separately. Mothers whose classification was not coded due to missing or insufficient information provided in the questionnaires (10% of all mothers) are also identified separately.

Analyses based on social class

Although the 2000 data have been analysed by the new mother's NS-SEC throughout this report, where it has been of interest to look at changes within socio-economic groupings over time, we have presented the data on social class of partner as in previous years. As in 1995, the analyses in this report use information taken from the survey questionnaires about the husband's or partner's occupation to assign social class. However, where information given in the questionnaire was insufficient to code social class, then social class based on information collected at registration was used as a proxy. A social class could not be assigned to mothers who were neither married nor living with a partner, nor where incomplete information was given about the partner's occupation. Data for these two groups are shown separately in the tables.

Analyses based on mother's NS-SEC

The distribution of the 2000 sample by NS-SEC is shown in Table 1.6, for the full eightclass categorisation and the aggregated five-class and three-class versions of the scale. A decision was made to use the simplified three-class categorisation (higher, intermediate, and lower occupations) together with "never worked" as this provided the most balanced scale.

Table 1.6

Distribution of 2000 sample by mother's NS-SEC for the eight, five and three-class versions

8 classes	%	5 classes	%	3 classes	%
Large employers & higher managerial occupations Higher professional	3	Managerial & professional occupations	29	Higher occupations	29
occupations Lower managerial and professional occupations	23				
Intermediate occupations	17	Intermediate occupations	17	Intermediate occupations	20
Small employers and own-account workers	3	Small employers and own-account workers	3	-	
Lower supervisory and technical occupations	6	Lower supervisory and technical occupations	6	Lower occupations	28
Semi-routine occupations	14	Semi-routine & routine	22	-	
Routine occupations	8 _	occupations			
Never worked and long-term unemployed	14	Never worked and long-term unemployed	14	Never worked and long-term unemployed	14
Unclassified	10	Unclassified	10	Unclassified	10
Base: All Stage 1 mothers 94	192		9492		9492

It is of interest to look at the relationship between the new NS-SEC and the old partner's social class, in order to investigate how well the two scales correlate. Of course, a very high degree of correspondence should not necessarily be expected as NS-SEC was based on the mother's current or previous occupation whereas social class was based on the partner's occupation details. Nevertheless Table 1.7 shows that there is a reasonably high level of correspondence between the two scales. A half (53%) of mothers classified to higher occupations would have been classified as social class I or II under partner's class and two-thirds (64%) would have been classified to any non-manual social class. The large majority of the remainder (21%) would have been placed in the highest of the manual categories, IIIM.

Mothers classified to intermediate occupations were more evenly split between nonmanual (49%) and manual (41%) occupations under the social class categorisation. Mothers classified to lower occupations would predominantly have been placed in either a manual social class (54%) or as no partner/unclassified (23%), this latter category including father's who had never worked. Mother who had never worked would disproportionately have been classified as either having no partner or partner unclassified (43%) or in manual occupations (40%).

Mothers who gave insufficient information to code their NS-SEC were more likely than average to have been classed under the social class schema as having no partner or partner unclassified (29% compared with 19% of all mothers). They were correspondingly somewhat less likely to be classified in a non-manual social class group (32% compared with 40% overall). Thus this suggests that more of the mothers whose NS-SEC was unclassified in fact should have been classified to lower occupations or never worked, given the high correspondence between manual and unclassified social classes and those at the lower end of the NS-SEC scale, as discussed above. Therefore, it should be noted that it is possible that the NS-SEC scale may be slightly skewed in favour of higher rather than lower occupations.

Table 1.7

Distribution of partner's social class based on current or former occupation of husband or partner by mother's socio-economic classification (NS-SEC) (United Kingdom, 2000)

	Mother's NS-SEC											
	Higher occupat ions	Intermed- iate occu- pations	Lower occupat- ions	Never occupat- ions	Unclass- ified	All mothers						
& INM All non-manual	53 11 64	37 12 49	17 6 23	12 5 17	26 6 32	32 9 40						
IIIM IV & V All manual	21 8 29	28 13 41	34 21 54	21 19 40	23 16 39	26 15 41						
No partner/unclassified	8	11	23	43	29	19						
Base (all Stage 1 mothers) 2790	1905	2618	1277	902	9492						

- ¹ Department of Health and Social Security *Present day practice in infant feeding* Report on Health and Social Subjects 9. HMSO (London:1974)
- ² Department of Health and Social Security. *Present day practice in infant feeding: 1980.* Report on Health and Social Subjects 20. HMSO (London: 1980)
- ³ Department of Health and Social Security. *Present day practice in infant feeding: third report.* Report on Health and Social Subjects 32. HMSO (London: 1988)
- ⁴ Department of Health. Weaning and the weaning diet. Report of the working group on the Weaning Diet of the committee on Medical Aspects of Food Policy Report on Health and Social Subjects 45. HMSO (London: 1994)
- ⁵ Martin J. Infant Feeding 1975: attitudes and practice in England and Wales. HMSO (London: 1978)
- ⁶ Martin J and Monk J Infant Feeding 1980.OPCS (London: 1982)
- ⁷ Martin J and White A *Infant Feeding 1985*.OPCS (London: 1988)
- ⁸ White A, Freeth S and O'Brien M Infant feeding 1990. HMSO)London: 1992)
- ⁹ Breastfeeding Good Practice Guide to the NHS DH1995
- ¹⁰ See section I.4 in Appendix I for a note on changes to smoking questions between 1995 and 2000.
- ¹¹ See www.statistics.gov.uk/methods_quality/ns-sec/default.asp

2

Incidence & duration of breastfeeding

Summary

Initial incidence of breastfeeding

- Initial breastfeeding rates in 2000 were 71% in England and Wales, 63% in Scotland and 54% in Northern Ireland. In all countries, there was a significant increase in breastfeeding incidence between 1995 and 2000.
- The increase in breastfeeding incidence in England and Wales since 1995 could be mainly accounted for by changes in the age and educational profiles of mothers. The increased incidences in Scotland and Northern Ireland, however, remained significant even after taking into account changes in the characteristics of the sample of mothers.
- The highest incidences of breastfeeding were found among mothers from higher occupational groups, with the highest educational levels, aged 30 or over, from ethnic minority backgrounds, among mothers of first (as opposed to later) babies, and mothers with previous experience of breastfeeding.
- The increase in breastfeeding incidence between 1995 and 2000 was concentrated within mothers at the lower end of the social class scale, within the manual subgroup, mothers with no partner, and partners' occupations unclassified.

Changes in feeding behaviour between previous and subsequent babies

- Compared with 1995, significantly more mothers of later babies in 2000 were *changing* their feeding behaviour. In the United Kingdom, a quarter (26%) of mothers of later babies changed their behaviour by initiating breastfeeding, compared with less than a fifth (18%) in 1995.
- Those mothers who had changed their behaviour from bottle to breast feeding between children were younger, less well-educated and from a lower socio-economic grouping when compared with mothers who had breastfed at both occasions.

Prevalence & duration of breastfeeding

- Although the initial incidence of breastfeeding has increased significantly in all countries from 1995, only in Scotland did this increase extend beyond birth. Increases in prevalence of breastfeeding in Scotland were observed at all ages up to 9 months.
- In 2000, among those women who did breastfeed initially, the proportion still breastfeeding at 6 weeks remained similar in England & Wales and Scotland compared to 1995. However, in Northern Ireland there was a sharper decline in the rates of breastfeeding over the first few weeks compared with 1995.
- Scottish women who breastfeed do so for the longest with 40% still breastfeeding at six months, compared with 34% in England & Wales and 21% in Northern Ireland.
 Mixed milk feeding
- In the early weeks, breastfeeding mothers were more likely to be giving milk solely from the breast than to give mixed breastmilk and formula feeds. Mothers from higher socio-economic groups and with a higher educational level were the most likely to provide milk from the breast alone at each stage of the survey. Mothers of black and Asian ethnic origin showed a preference for mixed over sole breastfeeding at each stage of the survey, in contrast to white mothers.

This chapter presents the key statistics about initiation of breastfeeding, the length of time women continue to breastfeed, how women change their feeding behaviour between previous and subsequent babies, as well as the prevalence of breastfeeding and mixed milk feeding. Variations by different demographic subgroups are explored.

2.1 Incidence of breastfeeding

Incidence of breastfeeding is defined as the **proportion of babies who were breastfed initially**. This includes all babies who were put to the breast at all, even if this was on one occasion only.

2.1.1 Longer-term trends

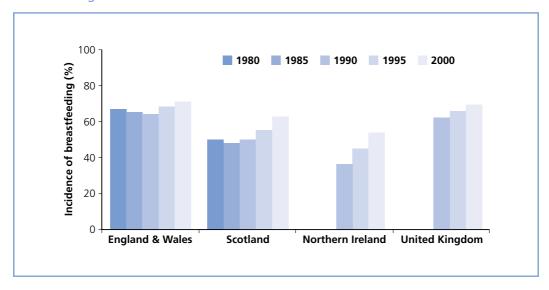
Table 2.1 and Figure 2.1 illustrate the trends in the incidence of breastfeeding by country for all available years since 1980. The historical data shows that between 1985 and 1990, initiation rates in England & Wales and Scotland remained broadly stable, followed by a significant increase between 1990 and 1995. This trend has continued over the period between 1995 and 2000. Breastfeeding incidence in England and Wales now stands at 71%, an increase of 3 percentage points since 1995, and 7 percentage points since 1990. A marked increase can be observed in Scotland, where rates have risen to 63% from 55% in 1995, and from 50% in 1990. Breastfeeding incidence in Northern Ireland (54%) continues to be lower than elsewhere in the United Kingdom, although this too represents a very significant rise since 1995 (45%), which in turn was higher than in 1990 (36%).

Table 2.1, Figure 2.1

		England & Wales						Northern Scotland Ireland								
	1980	1985	1990	1995	2000	1980	1985	1990	1995	2000	1990	1995	2000	1990	1995	2000
Percentage who preastfed initially	67	65	64	68	71	50	48	50	55	63	36	45	54	62	66	69
Base (all Stage 1 mothers)	3755	4671	4942	4598	5441	1718	1895	1981	1863	2274	1497	1476	1778	5533	5181	9492

Table 2.1 Incidence of breastfeeding by country (1980, 1985, 1990, 1995 and 2000)

Figure 2.1 Incidence of breastfeeding by country: 1980 to 2000 Base: All Stage 1 mothers



Although these changes represent a significant increase in breastfeeding in each country, it is important to place the results in the context of changes in the composition of the sample since 1995. As detailed in section 1.4, there have been some important shifts in the profile of new mothers since 1995. The 2000 sample contained greater proportions of mothers aged 30 or over, and mothers who had continued in education beyond the age of 19, these changes continuing trends evident since 1985¹. Both of these factors are strongly associated with the incidence of breastfeeding (see section 2.1.2). Moreover the groups which have increased in size are those with higher breastfeeding rates. Explanation of observed national trends in breastfeeding is therefore complicated by the fact that, even if the rates for different groups had remained constant, overall rates would have increased simply as a result of changes in the composition of the sample.

The technique of **standardisation** was used to separate the contribution of compositional change from what might be termed "real" change over the period since 1985. The calculated standardised rates show the breastfeeding rates which would have been expected in 1990, 1995 and 2000 if the samples of mothers in those two surveys had had the same characteristics as the 1985 sample (1990 in the case of Northern Ireland).

Analysis was carried out to standardise for the combined effects of age and educational level within each country.

As already seen in Table 2.1, survey estimates of the incidence of breastfeeding in England and Wales were 64% in 1990, 68% in 1995 and 71% in 2000. The standardised rates, assuming that the distributions of age and education of the sample had remained the same as in 1985 were 62% in all three years. Thus the observed change in breastfeeding between 1995 and 2000 could be attributed to changes in the sample composition.

Changes in sample composition also had some effect on estimates of incidence in Scotland, but the standardised rates still indicate a fairly substantial increase in the incidence of breastfeeding between 1995 and 2000 (from 48% to 54%). This follows a much smaller increase between 1990 and 1995 (from 46% to 48%).

In Northern Ireland, a similar pattern was evident, standardisation removing some but not all of the observed increase in breastfeeding between 1995 and 2000. Even after standardisation, the estimated incidence of breastfeeding rose from 41% to 47%.

Table 2.2

Table 2.2

Estimated incidence of breastfeeding standardised by composition of the sample, by country

	1985	1990	1995	2000
	Percentag	je who b	reastfed i	nitially
England & Wales				
Unstandardised percentage	65	64	68	71
Standardised for mother's age and age finished full-time education	65	62	62	62
Scotland				
Unstandardised percentage	48	50	55	63
Standardised for mother's age and age finished full-time education	48	46	48	54
Northern Ireland				
Unstandardised percentage	n/a	36	45	54
Standardised for mother's age and age finished full-time education	n/a	36	41	47

2.1.2 Variations in the incidence of breastfeeding

Birth order

Previous surveys have shown that the incidence of breastfeeding is higher among mothers of first rather than later babies. This continued to be the case in 2000 and was seen in all countries. Across the United Kingdom, three-quarters (74%) of first-time mothers breastfed their babies initially compared with two-thirds (65%) of mothers of subsequent babies. It is interesting to note that across the time period between 1995 and 2000, breastfeeding rates have increased by a greater degree among second or later babies as compared with first-time babies, which has led to a reduction in the gap between the breastfeeding behaviour of first and later mothers. This is explored further in section 2.2.

Table 2.3, Figure 2.2

Socio-economic status of mothers

In all past infant feeding surveys up to and including 1995, mothers' socio-economic position was defined by social class based on current or most recent occupation of their husband or partner. However, as described in section 1.6, since 1995 there have been two important changes in the method of classifying mothers according to their socio-economic position. The first major change has been to base the classification on **mother's** as opposed to **partner's** occupation. The second major change has been to change the system of classification to the new Office of National Statistics (ONS) classification - the **National Statistics Socio-Economic Classification (NS-SEC)**, which was introduced in 2001. Full details of the new socio-economic classification and given in Section 1.6, together

with a discussion of the implications of using the new scale in terms of its relationship to partner's social class.

The following section gives a detailed breakdown of breastfeeding incidence by mothers' NS-SEC. However, in order to examine any change in the incidence of breastfeeding within socio-economic groups over time, we have also provided some comparative data based on partner's social class.

Table 2.3

Incidence of breastfeeding by birth order and country (1995 and 2000) Base: All Stage 1 mothers

	England & Wales		Scotland			orthern Ireland	United Kingdom	
	1995	2000 Pe	1995 ercentage	2000 who bre	1995 astfed ini	2000 itially	1995	2000
First birth Second or later birth	74 62	75 66	61 50	67 59	52 40	59 51	72 60	74 65
Bases (Stage 1 mothers) First birth Second or later birth	2076 2522	2560 2881	867 996	1115 1159	578 898	729 1049	2355 2845	4448 5044

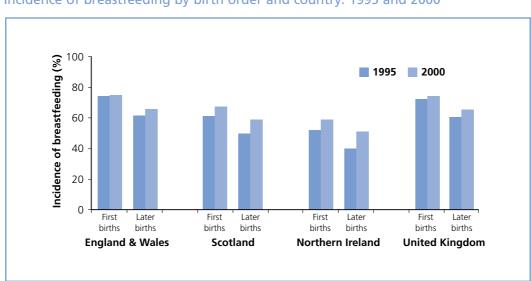


Figure 2.2 Incidence of breastfeeding by birth order and country: 1995 and 2000

Mother's socio-economic classification (NS-SEC)

Although the analysis is now based on a different classification system, a similar trend to that seen in previous surveys can be observed, whereby mothers classified into higher occupations were more likely to initiate breastfeeding than their counterparts in lower occupations. In the United Kingdom, 85% of mothers classified to higher occupations breastfed initially, compared with 73% of mothers in intermediate and 59% in lower

occupations. The lowest initiation rate was seen among those mothers who had never worked, this figure being 52%.

Compared with England and Wales, breastfeeding initiation rates were lower in Scotland and Northern Ireland for each of the socio-economic groups, reflecting the general trend seen in Table 2.1.

Table 2.4, Figure 2.3

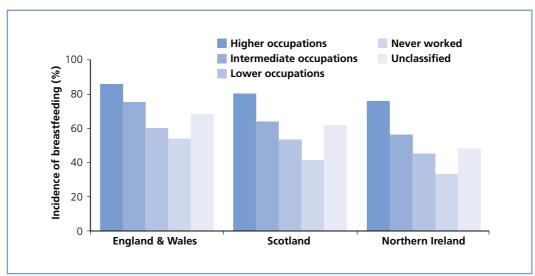
Table 2.4

Incidence of breastfeeding by mother's socio-economic classification (NS-SEC) and country, 2000

	England & Wales	Scotland	Northern Ireland	United Kingdom						
	Percentage who breastfed initially									
Higher occupations	86	80	76	85						
Intermediate occupations	75	64	56	73						
Lower occupations	60	53	45	59						
Never worked	54	41	33	52						
Unclassified	68	62	48	66						
All babies	71	63	54	69						
Bases (Stage 1)										
Higher occupations	1600	702	484	2791						
Intermediate occupations	1090	461	363	1906						
Lower occupations	1499	624	503	2619						
Never worked	740	268	232	1277						
Unclassified	510	218	196	901						
All babies	5441	2274	1778	9492						

Figure 2.3

Incidence of breastfeeding by mother's socio-economic classification (NS-SEC) and country: United Kingdom 2000



Base: All Stage 1 mothers

Social class (as defined by the current occupation of the husband or partner)

This section provides an analysis of data by social class in order to examine any changes in the breastfeeding incidence within social class categories over time. The analyses in this report use information taken from the survey questionnaires about the husband's or partner's occupation to assign social class. However, where information given in the questionnaire was insufficient to code social class, then social class based on information collected at registration was used as a proxy. A social class could not be assigned to mothers who were neither married nor living with a partner, nor where incomplete information was given about the partner's occupation. Data for these two groups are shown separately in the tables.

Trend data for the individual countries are shown in Table 2.5. In England and Wales, a significant increase was observed between 1995 and 2000 in social class group IIINM. In Scotland, significant increases were observed in non-manual social class groups I and II, manual group IV, and no partner. In Northern Ireland, significant increases were found in II, IIINM, IIIM and IV.

Figure 2.4 displays the change in incidence between survey years for the United Kingdom as a whole. In the United Kingdom, significant increases over time were observed towards the lower end of the social class scale in IIINM, in the aggregate manual category, and in the no partner/unclassified subgroups.

Table 2.5, Figure 2.4

Age at which mother completed full-time education

As in previous years, mothers in 2000 who left full-time education at 16 years old were least likely to breastfeed, while those who had continued in education beyond 18 years were most likely to do so. The association between breastfeeding and the mother's educational level was evident in all countries. For example, in England and Wales, nine in ten mothers leaving school after 18 breastfed compared to just over half of mothers who left school at 16.

Looking at trend data, it can be seen that there have been no significant changes in the breastfeeding rates according to educational level within England or Wales, or overall at the UK level. However, within Scotland and Northern Ireland, increases are evident in the two lower educational level categories (although only significant in the 16 or under category). This indicates that the overall rise in breastfeeding rates between 1995 and 2000 in these two countries was concentrated among the less well-educated sectors of the population.

Table 2.6

Table 2.5

Incidence of breastfeeding by social class based on current or last occupation of husband or partner, by country (1995 & 2000)*

	England & Wales		S	cotland		orthern Ireland	Ki	United ngdom
	1995	2000	1995	2000	1995	2000	1995	2000
		Pe	ercentage	who bre	astfed in	itially		
I	91	91	82	90	79	87	90	91
1	82	84	71	79	59	68	81	83
IIINM	72	79	65	65	55	66	71	77
All non-manual	82	84	72	78	61	70	80	83
IIIM	65	65	52	58	41	52	63	64
IV	58	62	48	58	38	51	57	61
V	50	59	56	47	36	38	50	57
All manual	61	64	51	56	40	51	60	63
Unclassified	62	71	56	65	33	[47]	61	70
No partner	49	53	30	41	24	33	46	51
All births	68	71	55	63	45	54	66	69
Bases (Stage 1)								
1	303	369	149	162	83	96	346	639
	1150	1373	398	552	318	370	1275	2366
IIINM	354	465	138	206	156	179	402	823
All non-manual	1807	2207	685	920	557	645	2023	3828
IIIM	1113	1398	439	597	383	519	1254	2461
IV	483	579	220	247	121	186	546	1010
V	164	218	65	112	56	55	185	382
All manual	1760	2195	724	957	560	760	1985	3853
Unclassified	294	167	105	54	107	[25]	330	279
No partner	737	871	347	343	251	348	843	1532
All births	4598	5441	1863	2274	1476	1778	5181	9492

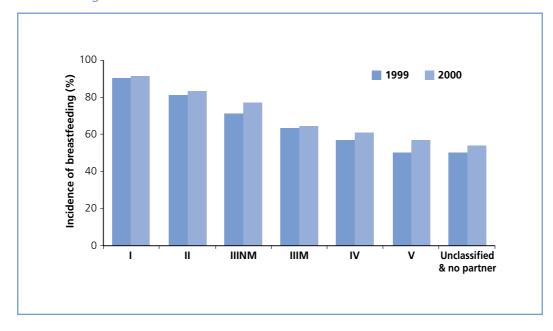
* The percentages in 2000 have changed slightly since the first release of data. This is due to changes in the derivation of social class data between publication of the first release and the main report, whereby mothers whose social class was originally recorded as "unclassified" were later reclassified using the registration data as a proxy where available.

Mother's age

As in previous years, there was a strong association between breastfeeding and mother's age across all survey countries. In Scotland, for example, breastfeeding rates ranged from three in ten among mothers aged under 20 to seven in ten among mothers aged 30 or over. When looking at trend data, significant rises can be seen across all except the youngest age group within Scotland, and within the 25-29 and 30+ age-groups in Northern Ireland.

Figure 2.4

Incidence of breastfeeding by social class based on current or last occupation of husband or partner (United Kingdom, 1995 & 2000)



Base: All Stage 1 mothers

Table 2.6

Incidence of breastfeeding by age completed full-time education, by country (1995 & 2000)

		ngland Wales	S(cotland		orthern Ireland	Ki	United ngdom
	1995	2000	1995	2000	1995	2000	1995	2000
		Pe	ercentage	who bre	astfed in	itially		
16 or under	53	55	39	46	26	38	51	54
17 or 18	74	72	59	63	46	50	72	70
Over 18	90	89	80	83	68	71	88	88
All births*	68	71	55	63	45	54	66	69
Bases (Stage 1)								
16 or under	2042	2009	805	813	471	446	2275	3436
17 or 18	1600	1875	618	743	634	716	1810	3289
Over 18	913	1507	432	708	356	603	1049	2683
All births*	4598	5441	1863	2274	1476	1778	5181	9492

* Includes some cases where mother's education was not known

Table 2.7

Incidence of breastfeeding by mother's age & country (1995 & 2000)

		ngland Wales	S	otland		orthern Ireland	Ki	United ngdom
	1995	2000 Pe	1995 ercentage	2000 who bre	1995 astfed in	2000 itially	1995	2000
Under 20	46	49	24	31	24	24	43	46
20-24	57	60	43	53	34	41	55	58
25-29	68	69	55	63	46	54	66	67
30 or over	76	79	65	70	50	62	74	78
All births*	68	71	55	63	45	54	66	69
Bases (Stage 1)								
Under 20	284	383	121	143	73	103	319	557
20-24	883	973	342	360	240	269	986	1670
25-29	1566	1544	629	655	521	526	1765	2703
30 or over	1855	2520	771	1112	640	873	2100	4428
All births*	4598	5441	1867	2274	1476	1778	5181	9492

Ethnicity

There were clear cultural differences between the breastfeeding rates of mothers from different ethnic backgrounds. Mothers from ethnic minority groups (Asian, Black, mixed and other ethnic origin) were considerably more likely to breastfeed at birth compared with white mothers. Two in three white mothers breastfed at birth, compared with around eight to nine in ten of each of the ethnic minority groups.

Comparative data on ethnicity from 1995 was not available.

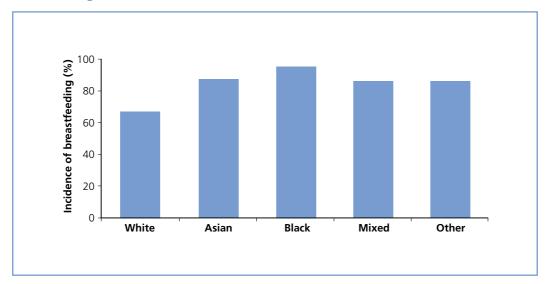
Table 2.8, Figure 2.5

Table 2.8

Incidence of	breastfeeding	by ethnicit	y (United Kingdo	om, 2000)

	%	Base
White	67	8608
Asian	87	275
Black	95	185
Mixed	86	93
Other	86	66
All Stage 1 births*	66	9492
* Includes some cases whe	re ethnicity was not ki	nown





Region

As in 1995, there was a regional differential in the incidence of breastfeeding mothers, with the highest rates found in the south - London & the South East, and the South West & Wales – and the lowest rates found in the North, together with Scotland and Northern Ireland. Rates varied from a low of 54% in Northern Ireland to a high of 81% in London and the South East. By year, increases can be observed across all regions with the exception of the Midlands and East Anglia.

Table 2.9

Table 2.9

Incidence of breastfeeding by region (United Kingdom 1995 & 2000)

	1995	2000	Base 1995	Base 2000	
-	%	%	%	%	
London & South East	76	81	1818	1884	
South West & Wales	70	74	684	821	
Midlands & East Anglia	64	65	907	1029	
North	56	61	1190	1684	
Scotland	55	63	1867	2274	
Northern Ireland	45	54	1476	1778	
All Stage 1 births*	66	69	5181	9492	

2.2 Changes in feeding behaviour between previous and subsequent babies

In Table 2.3 it was shown that the incidence of breastfeeding was higher among mothers of first rather than later babies. Moreover, there has been clear evidence from previous surveys that the likelihood of a mother breastfeeding a second or subsequent baby is strongly correlated to her experience of feeding previous children. This has led to the targeting of feeding information and advice to first-time mothers.

This pattern is again repeated in 2000. Overall, across the United Kingdom, 65% of babies of all later births were breastfed at least initially. Among mothers who had not breastfed their previous child, this proportion was 26%, rising to 68% of mothers breastfeeding previous children for less than six weeks and 96% of mothers breastfeeding previous children for at least six weeks. Similar patterns are evident within all countries.

Although this trend echoes a similar one found in 1995, there have been some important shifts within the general trend. In 1995, less than a fifth (18%) of mothers who solely bottle fed their previous child changed to breastfeeding for their subsequent child. In 2000, as noted above, over a quarter (26%) of this group changed their behaviour from bottle to breastfeeding, and a similar differential can be observed within each country (from 15% to 22% in Scotland, and from 12% to 20% in Northern Ireland). This is a key finding as it indicates that, compared with five years ago, more women are *changing* their feeding behaviour between children from bottle to breast.

There has also been a positive shift in the proportion of mothers choosing to breastfeed who had breastfeed their previous child, but for less than six weeks. In 1995, in Scotland and Northern Ireland, less than half of mothers in this subgroup breastfed their subsequent child. This situation may have arisen if, for example, a mother had difficulties breastfeeding her previous child leading her to abort this feeding practice at an early stage, this then deterring her from attempting to breastfeed the next time.

However, in 2000, there has been a marked shift within these two countries in the proportion of mothers who stopped at an early stage with their previous child but have attempted to breastfeed again with their later child. Nearly two-thirds (63%) of these mothers in Scotland opted to breastfeed again, a rise of 17 percentage points since 1995, and in Northern Ireland, three-quarters of this subgroup of mothers chose to breastfeed again, a steep rise of 31 percentage points.

These figures indicate that messages about the benefits of breastfeeding are getting through to all mothers, not simply first-time mothers, and those who have had successful breastfeeding experiences in the past.

Following this theme, it is interesting to look at the duration of breastfeeding among mothers who did not breastfeed their previous baby, and whether mothers who did breastfeed their previous child are now breastfeeding longer. This is explored in section 2.4.2

Table 2.10, Figure 2.6

Table 2.10

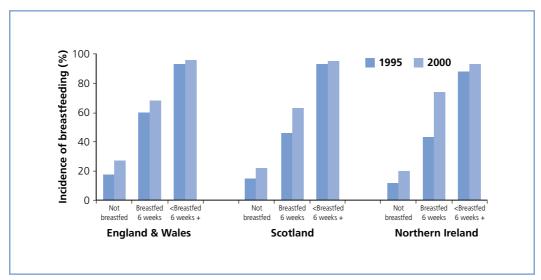
Incidence of breastfeeding among mothers of more than one child according to length of time for which previous children were breastfed, by country (1995 and 2000)

		ngland Wales	So	otland		orthern Ireland	Ki	United ngdom
-	1995	2000	1995	2000	1995	2000	1995	2000
	Percentage who breastfed initially							
Never breastfed	18	27	15	22	12	20	18	26
Breastfed for less than 6 weeks	60	68	46	63	43	74	59	68
Breastfed for 6 weeks or more	93	96	93	95	88	93	93	96
All later births*	62	66	51	59	40	51	60	65
Bases (Stage 1 mothers)								
Never breastfed	782	987	414	453	462	526	926	1793
Breastfed for less than 6 weeks	525	556	184	207	156	194	584	966
Breastfed for 6 weeks or more	1154	1210	374	462	262	289	1267	2068
All later births*	2522	2881	996	1159	898	1049	2845	5044

* Includes some cases where mother's method of feeding previous children was not known

Figure 2.6

Incidence of breastfeeding by experience of feeding previous child and country: 1995 to 2000



Base: All later births

Given that there has been such a significant shift in the proportion of women who chose to breastfeed their current baby, even if they didn't breastfeed their previous child or only breastfed them for a relatively short period, it is interesting to look at the profile of these subgroups of mothers in more detail. Table 2.11 displays the profile of women in each of three categories according to mother's age, age left full-time education, and socio-economic classification (NS-SEC). The three categories are:

- i. Did not breastfeed previous baby, breastfed current baby ("Bottle to breast")
- ii. Breastfed previous baby for less than 6 weeks, breastfed current baby ("repeat breastfeeders")
- iii. Breastfed previous baby for 6 weeks or more, breastfed current baby ("repeat long-term breastfeeders")

Table 2.11

Table 2.11

Characteristics of mothers according to whether they changed their feeding behaviour between previous and current babies (United Kingdom, 2000)

	Bottle to breast	Repeat breastfeeders	Repeat long-term breastfeeders	
	%	%	%	
Mother's age				
Under 25	18	12	8	
25-29	31	26	20	
30+	51	61	71	
Age completed FT education	on			
16 or under	48	37	24	
17-18	36	40	33	
19+	15	23	42	
Mother's NS-SEC				
Higher occupations	20	28	41	
Intermediate occupations	17	25	23	
Lower occupations	32	30	19	
Never worked	21	9	9	
Unclassified	10	8	8	
Base (Stage 1 mothers with p	previous			
children breastfeeding initially		659	1987	

* Some figures are calculated on bases slightly lower than these depending on level of missing data

The table shows that there are strong demographic differences between those who have changed their feeding behaviour between babies from bottle to breast, and those who are "repeat long-term breastfeeders". Compared with mothers who had breastfed their baby on both occasions, those who had changed their feeding behaviour from bottle to breast were disproportionately younger, less well-educated and from lower occupational groups. For example, 18% of "bottle to breast" mothers were aged under 25, 48% left education at age 16 or under and 53% were classified as either lower occupations or never worked. The equivalent figures for "repeat long-term breastfeeders" are 8%, 24% and 28%. The characteristics for those we have defined as "repeat breastfeeders" occupy a middle position between the two.

Thus the figures show that the shift from bottle to breast between babies was concentrated among those mothers in the more socially excluded groups of the population.

2.3 Prevalence of breastfeeding

Prevalence of breastfeeding is defined as the **proportion of all babies who are being breastfed at specific ages, even if they are also receiving infant formula or solid food.**

2.3.2 Trend data by country

Table 2.12 illustrates the changes in the prevalence of breastfeeding by country since 1995. As already seen, the initial rates of breastfeeding – at birth – are higher in 2000 than in 1995 for all countries. However, in England & Wales and Northern Ireland this improvement does not continue when looking at later ages. In England & Wales there was no improvement in breastfeeding rates at any age beyond birth, and in Northern Ireland there were small, but non-significant, improvements at later ages. Thus, although more women were now breastfeeding at birth, there was still a high fall-out in the early weeks. In England and Wales, the prevalence of breastfeeding drops from 71% to 43% by six weeks, and in Northern Ireland the corresponding figures are 54% and 26%.

However, in Scotland, where we have already seen an 8 percentage point increase in breastfeeding rates at birth, this improvement continues at all ages up eight months. At one week, a half of all mothers are still breastfeeding (an improvement of 4 percentage points on 1995), and by four months three in ten are still breastfeeding (an improvement of 6 percentage points). Compared with the other countries, mothers in Northern Ireland were much less likely to breastfeed at all ages.

Table 2.12

2.3.3 Variations in the prevalence of breastfeeding

Birth order

As shown in Table 2.2 earlier, mothers of first babies were more likely to initiate breastfeeding at birth. However, when looking at prevalence in the later weeks, the figures begin to even out, indicating that there is a higher fall-out rate among first-time mothers compared with mothers of second or subsequent babies. For example, by six weeks, breastfeeding prevalence stands at 42% for both first and later babies which means that 32% of first-time mothers stopped breastfeeding within the first 6 weeks compared with 23% of mothers of later babies.

Table 2.13

6 months (26 weeks)

8 months (35 weeks)*

9 months (39 weeks)*

Base (all babies at Stage 3)

	3	5 1			, 	<u> </u>		,	
Age of baby	England & Wales Scotland			orthern Ireland	Ki	United ngdom			
	1995	2000 Pe	1995 ercentage	2000 breastfe	1995 eding at	2000 each age	1995	2000	
Birth	68	71	55	63	45	54	66	69	
1 week	58	57	46	50	35	37	56	55	
2 weeks	54	54	44	47	32	34	53	52	
6 weeks	44	43	36	40	25	26	42	42	
4 months (17 weeks)	28	29	24	30	12	14	27	28	

* Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3

Prevalence of breastfeeding at ages up to 9 months by country (1995 and 2000)

Table 2.13 Prevalence of breastfeeding at ages up to 9 months by birth order (United Kingdom, 2000)

	First birth	Later birth	All babies
	Percentag	je breastfeeding at each ag	le
Birth	74	65	69
1 week	58	54	55
2 weeks	54	51	52
6 weeks	42	42	42
4 months (17 weeks)	27	29	28
6 months (26 weeks)	19	23	21
8 months (35 weeks)*	14	18	16
9 months (39 weeks)*	11	15	13
Base (all babies at Stage 3)	3367	3900	7267
* Based on a reduced number o	f cases excluding those b	abies who had not reached th	is age by Stage 3

Mother's socio-economic classification

Table 2.14 shows that the differential observed between the different socio-economic groups at birth (Table 2.4) continues at all ages beyond birth. For example, 60% of women in higher occupations were breastfeeding at six weeks compared with 28% of women in lower occupations and 26% of those who had never worked.

Table 2.14

Table 2.14

Prevalence of breastfeeding at ages up to 9 months by mother's socio-economic classification (NS-SEC) (United Kingdom, 2000)

	Higher occupat ions	Intermed- iate occu- pations	Lower occupat- ions	Never occupat- ions	Unclass ified	All mothers
		Perce	entage breast	feeding at ea	ich age	
Birth	85	73	59	52	65	69
1 week	73	58	42	36	52	55
2 weeks	69	55	38	34	50	52
6 weeks	60	42	28	26	41	42
4 months (17 weeks)	43	27	17	17	26	28
6 months (26 weeks)	31	21	13	13	21	21
8 months (35 weeks)*	22	17	10	11	18	16
9 months (39 weeks)*	18	15	8	9	15	13
Base (all babies at Stage	3) 2314	1558	1982	769	643	7267
* Based on a reduced nu	mber of case	s excluding the	ose babies who	o had not reac	hed this age b	y Stage 3

Age at which mother completed full-time education

We have already seen that mothers who continued their education beyond the age of 18 are more likely to breastfeed their babies at birth compared with those who completed their education sooner (Table 2.6). Table 2.15 below shows that this differential breastfeeding prevalence continued at all later ages. For example, two-thirds (64%) of mothers in the highest educational category were breastfeeding at six weeks compared with around a quarter (27%) of mothers in the lowest educational category.

Table 2.15

Ethnic group

Table 2.8 illustrated that mothers from ethnic minority backgrounds were more likely to breastfeed at birth compared with white mothers. The data on prevalence of breastfeeding at various ages shows more detailed differences between the ethnic groups. Asian mothers were more likely than white mothers to be breastfeeding at all ages up until four months, at which point the figures begin to become more balanced between the two groups. However, Black mothers were more likely than white mothers to breastfeed at all ages up to and including nine months. Those with "other" and "mixed" ethnic backgrounds were the most committed in terms of breastfeeding, with nearly half (46%) breastfeeding at six months and three in ten (31%) breastfeeding at nine months.

Table 2.16

Prevalence of breastfeeding at ages up to 9 months by age left full-time education (United Kingdom, 2000)

	16 or under	17 or 18	Over 18	All babies**
	Perce	ntage breastfeed	ing at each age	
Birth	54	69	87	69
1 week	40	54	75	55
2 weeks	37	51	72	52
6 weeks	27	40	64	42
4 months (17 weeks)	16	25	48	28
6 months (26 weeks)	11	18	37	21
8 months (35 weeks)*	9	13	28	16
9 months (39 weeks)*	7	11	24	13
Base (all babies at Stage 3)	2510	2595	2104	7267

* Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3 **Base includes some cases where mother's education was not known

Table 2.16

Prevalence of breastfeeding at ages up to 9 months by mother's ethnic group (United Kingdom, 2000)

	White	Asian	Black	Mixed & other**	All mothers
		Percentage b	reastfeeding a	t each age	
Birth	67	87	95	86	69
1 week	54	72	77	73	55
2 weeks	51	66	77	72	52
6 weeks	41	51	69	65	42
4 months (17 weeks)	28	28	46	50	28
6 months (26 weeks)	21	23	31	46	21
8 months (35 weeks)*	15	19	26	41	16
9 months (39 weeks)*	13	17	19	31	13
Base (all babies at Stage 3)	6761	148	104	106	7267

* Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3

** Categories combined due to low base sizes

2.4 **Duration of breastfeeding**

The duration of breastfeeding refers to the **length of time that mothers who breastfed initially continue to breastfeed even if they were also giving their baby other milk and solid foods.**

The results presented in this section relate only to mothers who ever breastfed and show the proportion who were still breastfeeding at one week, two weeks, six weeks, four months, six months and nine months.

2.4.1 Trend data by country

Table 2. 17 compares the duration of breastfeeding in 1995 and 2000 by country. The rates in England and Wales and Scotland were similar between 1995 and 2000 for all ages up to six weeks. However, there was a statistically significant increase in the proportion of breastfeeding mothers in England & Wales who were still doing so at four months; 45% of mothers who breastfed initially were still doing so at four months, compared with 42% in 1995. Similarly, in Scotland, the proportion of women still breastfeeding at four months increased from 45% to 50%, and a significant rise is also observed at six months (from 35% to 40%). When comparing the results in Scotland against those in England and Wales, it can be seen that, among those who breastfeed initially, Scottish women breastfeed for longer on average than women in England and Wales. By six months, 40% of Scottish women were still breastfeeding compared to 34% of women in England and Wales.

As in 1995, Northern Ireland showed a steeper decline than other countries in the proportion who continued to breastfeed at later ages, with a particularly sharp fall after one week. Nearly three in ten women (28%) who attempt breastfeeding at birth give up within the first week. This compares with only 15% and 17% in England & Wales and Scotland respectively. In fact, contrary to other trends which tend to show an improvement in breastfeeding rates between 1995 and 2000, there has been a significant fall in the proportion of women in Northern Ireland still breastfeeding in the early weeks, from 79% to 72% at one week, and from 73% to 66% at two weeks. Thus although a greater proportion of women in Northern Ireland were attempting to breastfeed in 2000 compared with 1995, the duration is now shorter.

By six weeks, half (51%) of women who initially started to breastfeed in Northern Ireland were still breastfeeding, compared with around two-thirds in the other countries. By nine months, the rate drops to one in nine breastfeeding mothers (11%), compared with 19% in England & Wales and 23% in Scotland.

Table 2.17, Figure 2.7

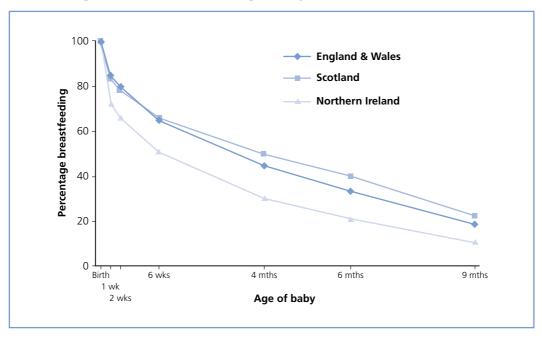
Duration of breastfeeding for those who were breastfed initially by country (1995 and 2000)

Age of baby		ngland Wales	Se	otland		orthern Ireland		United ngdom
	1995	2000	1995 Percent	2000 age still l	1995 oreastfee	2000 ding	1995	2000
Birth	100	100	100	100	100	100	100	100
1 week	86	85	84	83	79	72	85	84
2 weeks	81	80	79	78	73	66	80	79
6 weeks	65	65	66	67	56	51	65	64
4 months (17 weeks)	42	45	45	50	27	30	42	44
6 months (26 weeks)	32	34	35	40	19	21	32	34
9 months (39 weeks)*	21	19	24	23	11	11	21	19
Base (all Stage 3 mothers								
breastfeeding initially)	3106	2900	1029	1082	659	778	3410	4760
* Based on a reduced numbe	r of cases	excluding	those bab	ies who h	ad not rea	ached this	age by St	age 3

Figure 2.7

Duration of breastfeeding for those who were breastfed initially by country : United Kingdom, 2000

Base: All Stage 3 mothers breastfeeding initially



2.4.2 Variations in the duration of breastfeeding

Birth order & previous experience of breastfeeding

As found in previous surveys, mothers of second or later babies breastfeed for longer than mothers of first babies. Data for the United Kingdom in Table 2.18 show that 69% of later babies were still breastfed at six weeks compared with 60% of first babies. By six months the figures drop to 39% of later, compared to 29% of first, babies.

Table 2.18

Table 2.18

Duration of breastfeeding for	those who were	breastfed initially	by birth order
(United Kingdom, 2000)			

	First birth	Later birth	All babies					
-	Percentage still breastfeeding							
Birth	100	100	100					
1 week	82	86	84					
2 weeks	77	82	79					
6 weeks	60	69	64					
4 months (17 weeks)	40	49	44					
6 months (26 weeks)	29	39	34					
9 months (39 weeks)*	15	23	19					
Base (all Stage 3 mothers								
breastfeeding initially)	2486	2537	5023					
* Based on a reduced number	* Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3							

Section 2.2 showed that that a relatively high proportion (26%) of mothers who bottle fed their previous child switched to breastfeeding for their subsequent child. However, when we look at the duration of breastfeeding by mothers' experience of breastfeeding previous children, there are some clear differences between the subgroups. Table 2.19 shows that, for the subgroup of women who chose to breastfeed after exclusively bottle feeding their previous child, there was a sharp decline in breastfeeding over the first six weeks. Over a third (37%) gave up within the first week, and by six months only one in six of these mothers (16%) were still breastfeeding.

Among those mothers who breastfed their previous child, the duration of breastfeeding subsequent children was longer, although this varied depending on how long they breastfed their previous child. Among those mothers who breastfed their previous child for less than six weeks, there was a still a relatively high fall-out in the early weeks with one in three (30%) giving up in the first week; and two-thirds of mothers who breastfed their earlier child for less than six weeks ceased breastfeeding within the same timeframe for their later child.

However, those mothers who breastfed their child for at least six weeks previously, continued to breastfeed their later child for significantly longer. Nearly nine in ten (86%) were still breastfeeding at six weeks, and half of these mothers continued to breastfeed for at least six months.

Table 2.19, Figure 2.8

Duration of breastfeeding for those who were breastfed initially by mother's previous experience of breastfeeding (United Kingdom, 2000)

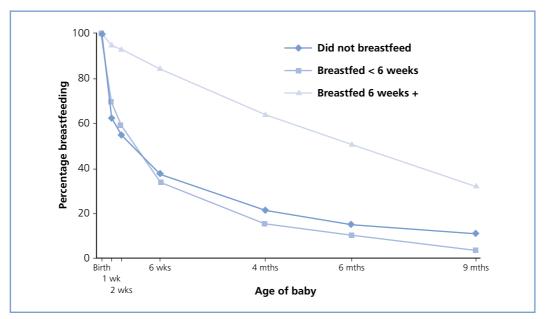
	Previous child not breastfed	Breastfed previous child < 6 weeks	Breastfed previous child 6 weeks +	All second & later
	Pe	ercentage still brea	astfeeding	
Birth	100	100	100	100
1 week	63	70	96	86
2 weeks	56	60	94	82
6 weeks	38	35	86	69
4 months (17 weeks)	22	17	65	49
6 months (26 weeks)	16	12	52	39
9 months (39 weeks)*	12	5	34	23
Base (Stage 3 mothers breast-	feeding			
initially with previous children)	335	479	1598	2537

* Based on a reduced of cases excluding those babies who had not reached this age by Stage 3 ** Includes some cases where previous experience of breastfeeding not known

Figure 2.8

Duration of breastfeeding for those who were breastfed initially by previous experience of breastfeeding : United Kingdom, 2000

Base: All Stage 3 mothers breastfeeding initially with previous children



Mother's socio-economic classification

There is a strong relation between the duration of breastfeeding and mother's socioeconomic status, with a longer duration of breastfeeding in mothers from higher occupational groups. In 2000, three-quarters (75%) of women who breastfed initially and were classified to higher occupations were still doing so at six weeks compared with about half (53%) of women in lower occupations. By six months, the equivalent figures are 41% and 27%.

Breastfeeding mothers who had never worked continued breastfeeding for longer on average than mothers in the lowest occupational group. Three-fifths (60%) were still breastfeeding at 6 weeks, and a third (34%) continued until at least six months.

Table 2.20, Figure 2.9

Table 2.20

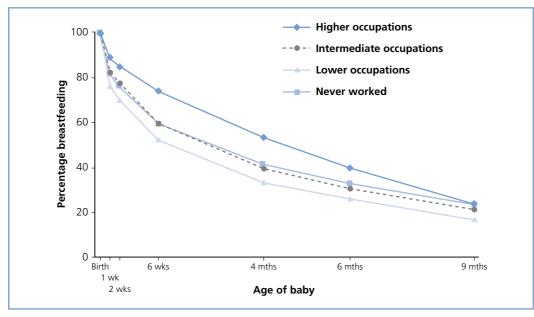
Duration of breastfeeding for those who were breastfed initially by mother's socioeconomic classification (NS-SEC) (United Kingdom, 2000)

	Higher occupat ions	Intermed- iate occu- pations	Lower occupat- ions	Never occupat- ions	Unclass- ified	All mothers
		Perce	entage still br	eastfeeding		
Birth	100	100	100	100	100	100
1 week	90	83	77	82	85	84
2 weeks	86	78	71	77	81	79
6 weeks	75	60	53	60	67	64
4 months (17 weeks)	55	40	34	42	45	44
6 months (26 weeks)	41	32	27	34	36	34
9 months (39 weeks)*	24	22	18	24	26	19
Base (all Stage 3 mothers	5					
breastfeeding initially)	1964	1130	1136	378	415	5023
* Based on a reduced nu	mber of case	es excluding the	ose babies who	o had not reac	hed this age b	y Stage 3

Figure 2.9

Duration of breastfeeding for those who were breastfed initially by mother's socioeconomic classification : United Kingdom, 2000

Base: All Stage 3 mothers breastfeeding initially



Age at which mother completed full-time education

Table 2.21 shows that in 2000, as in previous years, duration of breastfeeding was longest among mothers who continued in full-time education beyond the age of 18 and shortest among those who left school at 16 or below. For example, at six weeks, 78% of mothers who were educated beyond the age of 18 and who breastfed initially were still breastfeeding; this compares with 52% of mothers who left school at 16. Similar differentials can be seen at four, six and nine months.

Table 2.21

Table 2.21

Duration of breastfeeding for those who were breastfed initially by age mother left full-time education (United Kingdom, 2000)

	16 or under	17 or 18	Over 18	All babies**
	Perce	entage still breastfo	eeding	
Birth	100	100	100	100
1 week	77	82	91	84
2 weeks	71	77	88	79
6 weeks	52	60	78	64
4 months (17 weeks)	32	39	60	44
6 months (26 weeks)	24	29	47	34
9 months (39 weeks)*	13	16	27	19
Base (all Stage 3 mothers				
breastfeeding initially)	1354	1794	1835	5023
* Based on a reduced of case	s excluding those babie	es who had not reac	hed this age by St	age 3

** Includes some cases where mother's education not known

Ethnicity

White mothers who breastfed initially continued to do so for a shorter duration compared with mothers from other ethnic groups. Black mothers and those with mixed or other ethnic backgrounds breastfed the longest, being more likely than others to still be breastfeeding at all ages until 6 months.

Table 2.22, Figure 2.10

Duration of breastfeeding for those who were breastfed initially by ethnic group (United Kingdom, 2000)

	White	Asian ————————————————————————————————————	Black ill breastfeedi	Mixed & other**	All mothers
Birth	100	100	100	100	100
1 week	84	92	94	88	84
2 weeks	79	86	94	86	79
6 weeks	64	69	86	78	64
4 months (17 weeks)	44	43	61	61	44
6 months (26 weeks)	34	36	44	56	34
9 months (39 weeks)*	21	31	31	39	19
Base (all Stage 3 mothers					
breastfeeding initially)	4586	132	97	93	5023

* Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3

** Includes some cases where ethnicity of mother not known

† Categories combined due to small base sizes

Duration of breastfeeding for those who were breastfed initially by ethnicity : United Kingdom, 2000

Base: All Stage 3 mothers breastfeeding initially

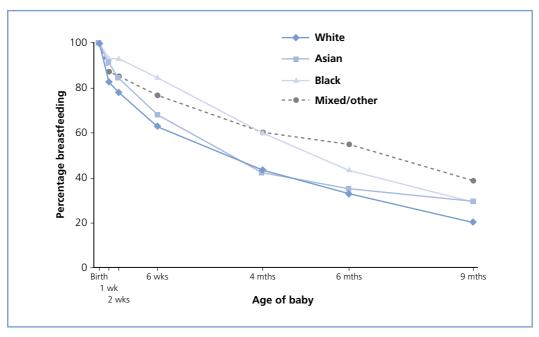


Figure 2.10

Mother's employment status

As in 1995, mothers were classified according to their working status during the first eight to nine months of their baby's life. Thus only mothers who completed all three stages of the survey are included in this analysis. Mother's were classified into one of five groups as follows:

- i. those who were working when the baby was about six weeks old and continued working throughout the rest of the nine or so months ('working all the time' in Table 2.23);
- ii. those who returned to work when the baby was between six weeks and four months old ('went back to work by Stage 2');
- iii. those who returned to work when the baby was between four months and nine months old ('went back to work by Stage 3');
- iv. those who did not work at all during the first nine or so months ('not working any of the time');
- v. those whose pattern of work followed some other arrangement ('others').

Table 2.23 shows that the small group of mothers who did not give up work at all after the birth of their baby breastfed the longest; a half were still breastfeeding at 6 months, much higher than any other subgroup. As would be expected, among those who took a break before returning to work, the duration of breastfeeding was shorter for those who took a shorter break. Just over a third (37%) of women who returned to work by Stage 2 were still breastfeeding at 4 months compared with 53% of women who returned to work later.

Table 2.23

	-	Went back to work by Stage 2		working any of the time	Others	Al babie
-		Perc	entage still br	eastfeeding		
Birth	100	100	100	100	100	10
1 week	91	81	88	84	76	8
2 weeks	86	76	85	79	72	7
6 weeks	68	60	72	64	54	6
4 months (17 weeks)	42	37	53	46	35	4
6 months (26 weeks)	53	25	38	39	25	3
9 months (39 weeks)*	23	11	16	26	11	1
Base (all Stage 3 mothers						
breastfeeding initially)	170	1131	1286	2196	240	502.

Table 2.23

Duration of breastfeeding for those who were breastfed initially by mother's working status during the first 9 months (UK, 2000)

2.5 Mixed breast and formula milk feeding

The tables and figures presented in this chapter so far show the proportion of mothers breastfeeding at different ages. However, these mothers may also be giving formula or cow's milk. In recent years there has been increasing interest in the level of women who breastfeed their child **exclusively**.

Infants are considered to be **exclusively breastfed** when they receive only breast milk, and no other food or drink with the exception of medicine, vitamins or mineral supplements (WHO 1991).

In the 2000 survey, we were unable to analyse information on exclusive breastfeeding as defined above. However, we were able to obtain data on how mothers were giving their milk feeds - whether wholly from the breast or in conjunction with other milk, such as formula. In this survey we use the term **"giving milk only from the breast"** which refers to **breastfeeding mothers who are not supplementing their baby's milk feeds with any formula or cows' milk.** However they may have been feeding their baby solids or giving them water or additional non-milk drinks.

Unfortunately, it is not possible to use the information collected in the survey to look at the prevalence of mothers giving only breastmilk at different ages, although we do know the status of mother's feeding **at the time they completed the questionnaire.** However, this information in itself is not very useful as there is such a wide variation in babies' ages at each stage, and the age ranges for each stage overlap to a certain extent (see Table 2.25). Thus, as a proxy for looking at prevalence of mothers giving only breastmilk at different ages, we have analysed the milk feeding practices by the age of baby at the time of completing the questionnaire. Table 2.24 shows the results based on all mothers. For each age group a mean baby's age is given to facilitate interpretation of the data.

Although the analysis is rather crude, the data does give some indication of the prevalence of mothers giving breastmilk only and those giving mixed milk feeds at different ages. The data suggests that around three in ten mothers (29%) were giving milk only from the breast at approximately five weeks, this figure falling to one in five (20%) by around nine weeks. By approximately six months, only one in ten mothers (10%) were breastfeeding solely, this figure falling to 4% by around eleven months.

The data would suggest that the practice of giving milk only from the breast is more common than mixed milk feeding in the early stages, with around twice as many babies in the 3-6 week age group receiving only breastmilk than receiving mixed milk feeds. This gap then narrows, and the data suggests that from around seven months, an equal proportion of women are choosing to give mixed milk feeds as are giving milk only from the breast.

Table 2.24

Milk feeding status of mothers by age of baby at the different stages of the survey (United Kingdom, 2000)

			Stage 1		Stage 2			Stage 3		
Age of baby	3, up to 6 weeks	6, up to 8 weeks	8 wks, up to 3 months	3, up to 5 months	5, up to 7 months	7, up to 9 months	9, up to 10 months	10, up to 12 months		
Mean age	4.9 weeks	6.9 weeks	9 weeks	4.3 weeks	5.7 weeks	8.5 weeks	9.4 weeks	10.5 weeks		
Breast milk only	29	25	20	16	10	7	7	4		
Breast & other milk	16	18	18	14	8	8	7	4		
Other milk only	55	57	62	70	82	85	86	92		
Base (all babies)*	3510	3196	2578	5498	2471	2192	3434	1358		

* Figures are based on mothers from the relevant survey stage. A small number of babies who were outliers in terms of their ages are excluded from the analysis at each stage

As well as looking at the prevalence of exclusive and mixed feeding at different ages, it is also interesting to look at how this varies by different subgroups of the population. Analysis of this type is only available at the broader level (i.e. for each survey stage).

In order to help interpret this data, the age range of babies for each stage is displayed in the table below, together with the mean age.

Table 2.25

Table 2.25 Minimum, maximum and mean ages of babies for the three stages of the 2000 survey

	Minimum age	Maximum age	Mean age
Stage 1			
-	21 days	128 days	48 days
	(3 weeks)	(18 weeks/4.2 months)	(7 weeks)
Stage 2			
	77 days	280 days	139 days
	(11 weeks)	(40 weeks/9.2 months)	(20 weeks/4.6 months)
Stage 3			
	203 days	365 days	276 days
	(29 weeks/6.7 months)	(52 weeks/12 months)	(39 weeks/9.1 months)

Clearly it would not be sensible to analyse data by subgroup if the age profile of babies within these subgroups was significantly different. Thus, mean ages were compared for different survey subgroups in order to check that there were no significant differences, and these are displayed in the tables that follow. In the majority of cases, there were no significant differences between subgroups, and where differences were found these are noted in the text.

Mother's socio-economic classification (NS-SEC)

Table 2.26 shows the proportion of mothers giving breastmilk only, giving breastmilk in conjunction with formula or other milk, or giving non-breastmilk only by mother's occupational grouping. As might be expected, there is a strong relationship between milk feeding status and occupation.

Two-fifths (38%) of mothers in higher occupations were giving milk only from the breast at Stage 1 compared with about a fifth (18%) of those in lower occupations and one in seven (14%) who have never worked. Similar differentials are seen at the second and third stages of the survey.

Table 2.26, Figure 2.11

Ethnicity

We have already seen that mothers from ethnic minority groups, particularly those from black and mixed backgrounds, are more likely to breastfeed. However, Table 2.27 shows differences between breast and other milk feeding by ethnic group. At Stage 1 of the survey, white mothers who breastfed were more likely to be doing so exclusively rather than in conjunction with other milk. However, among Asian and Black women, the practice is the other way round with more breastfeeding women giving mixed milk feeds than only breast milk. Black women in particular start mixed milk feeding much earlier than other ethnic groups with as many as a half (51%) giving mixed milk feeds at Stage 1 of the survey. (These results should be seen in the context of Asian and Black babies being slightly older on average than white and mixed race babies, which could partly explain the observed differences.)

By Stages 2 and 3, black women continue to show a preference for mixed milk feeding over sole breastfeeding, which is in contrast to the other ethnic groups (with the exception of "other" ethnicity at Stage 3, although the low base numbers should be noted).

Table 2.27, Figure 2.12

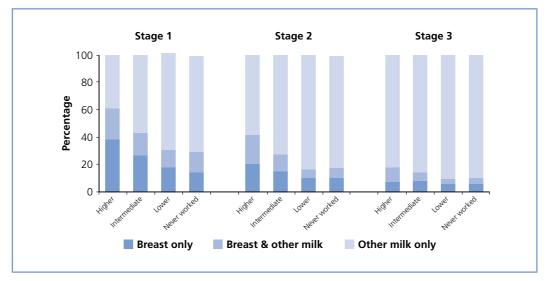
Milk feeding status at the three stages of survey by mother's socio-economic classification (NS-SEC) (United Kingdom 2000)

	Higher occupat ions	Intermed- iate occu- pations	Lower occupat- ions	Never occupat- ions	Unclass- ified	All mothers
	%	%	%	%	%	%
Breast milk only at Stage 1	38	26	18	14	21	25
Breast and other milk at Stage	1 23	17	12	15	19	17
Other milk only at Stage 1	39	57	70	71	60	58
Breast milk only at Stage 2	20	15	10	10	14	14
Breast and other milk at Stage	2 21	12	6	7	9	12
Other milk only at Stage 2	59	73	84	83	77	74
Breast milk only at Stage 3	7	8	5	5	7	6
Breast and other milk at Stage	3 11	6	4	5	7	7
Other milk only at Stage 3	82	86	91	90	86	87
Bases						
Stage 1 babies	2790	1907	2619	1277	902	9492
Stage 2 babies	2545	1740	2286	979	750	8299
Stage 3 babies	2314	1558	1982	769	643	7267
Means age of baby (days)						
Stage 1 babies	47	48	47	50	49	48
Stage 2 babies	138	140	140	140	139	139
Stage 3 babies	277	275	276	276	274	276

Figure 2.11

Milk feeding status at the three stages of the survey by mother's socio-economic classification: United Kingdom 2000

Base: All mothers at relevant stage

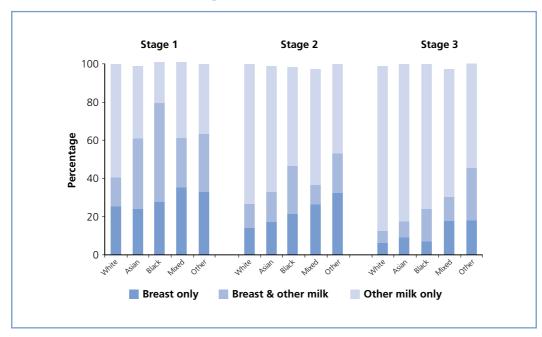


Milk feeding status at the three stages of survey by ethnicity (United Kingdom 2000)

	White	Asian	Black	Mixed	Other	All mothers
	%	%	%	%	%	%
Breast milk only at Stage 1	25	24	28	35	33	25
Breast and other milk at Stage 1	15	37	51	26	30	17
Other milk only at Stage 1	60	39	21	39	37	58
Breast milk only at Stage 2	14	17	21	26	32	14
Breast and other milk at Stage 2	12	16	25	10	21	12
Other milk only at Stage 2	74	67	54	64	47	74
Breast milk only at Stage 3	6	9	7	18	[18]	6
Breast and other milk at Stage 3	6	8	17	12	[27]	7
Other milk only at Stage 3	88	83	76	70	[55]	87
Bases						
Stage 1 babies	8608	274	185	92	67	9492
Stage 2 babies	7632	202	132	80	57	8299
Stage 3 babies	6763	149	104	61	[44]	7267
Means age of baby (days)						
Stage 1 babies	47	54	54	47	53	48
Stage 2 babies	139	145	137	131	149	139
Stage 3 babies	276	279	271	275	281	276

* Total bases include some cases where ethnicity of mother not known

Figure 2.12 Milk feeding status at the three stages of the survey by ethnicity: United Kingdom 2000



Base: All mothers at relevant stage

Age at which mother completed full-time education

There is a strong relationship between the milk feeding status of mothers and educational level. Mothers in the highest educational category were more likely to breastfeed either alone or in conjunction with other milk than women in the lower educational categories. However, the balance between sole breastfeeding and mixed milk feeding remains similar for the different subgroups at each stage.

Table 2.28, Figure 2.13

Table 2.28

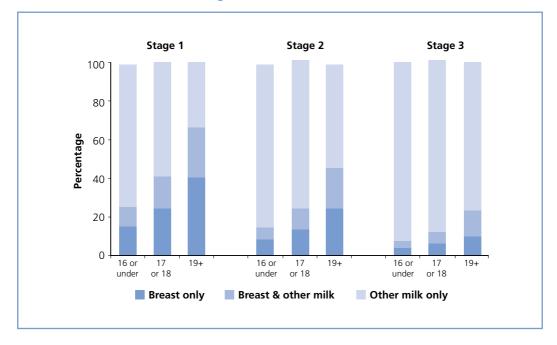
Milk feeding status at the three stages of survey by age mother completed full-time education (United Kingdom 2000)

	16 or under	17 or 18	19+	All mothers
-	%	%	%	%
Breast milk only at Stage 1	15	24	40	25
Breast and other milk at Stage	10	17	26	17
Other milk only at Stage 1	75	59	34	58
Breast milk only at Stage 2	8	13	24	14
Breast and other milk at Stage 2	2 6	11	21	12
Other milk only at Stage 2	86	76	55	74
Breast milk only at Stage 3	4	6	10	6
Breast and other milk at Stage 3	3 3	6	13	7
Other milk only at Stage 3	93	88	77	87
Bases*				
Stage 1 babies	3436	3289	2683	9492
Stage 2 babies	2941	2915	2374	8299
Stage 3 babies	2510	2596	2104	7267
Mean age of baby (days)				
Stage 1 babies	48	47	49	48
Stage 2 babies	140	140	137	139
Stage 3 babies	277	276	276	276

* Total bases include some cases where ethnicity of mother not known

Figure 2.13

Milk feeding status at the three stages of the survey by age mother completed fulltime education: United Kingdom 2000



Base: All mothers at relevant stage

¹ Foster K, Lader D, Cheeseborough S Infant Feeding 1995, HMSO (London, 1997)

Infant Feeding Report 2000

3

The use of milk other than breast milk

Summary

- In 2000, 30% of mothers in the United Kingdom did not breastfeed at all and gave infant formula as the sole source of nutrition from birth. This compares to 34% in 1995.
- By the first stage of the survey, when the babies were around four to ten weeks old, almost six in ten (58%) had switched entirely to infant formula milk. Some breastfeeding mothers were also using infant formula making a total of three-quarters of mothers who were using infant formula milk at least to some extent at the first stage of the survey.
- When babies were 4-10 weeks old, almost two-thirds (64%) of bottle feeding mothers were giving a whey dominant formula. At 4 5 months old, four in ten bottle feeding mothers (41%) were using a whey dominant formula and over a half (53%) a casein dominant one. At 8 9 months old, a fifth (20%) of bottle feeding mothers were using whey dominant and three in ten (30%) casein dominant formula. Over a third (37%) were using follow-on formula milk at this stage, a significant increase from 25% in 1995.
- At all three stages of the survey, breastfeeding mothers using formula milk were more likely to use a whey dominant formula than a casein dominant one. Breastfeeding mothers were also more likely than non-breastfeeding mothers to use a follow-on formula at stage three of the survey (49% compared with 36% amongst non-breastfeeding mothers).
- At stages one and two of the survey, less than 0.5% were giving cow's milk as a main milk drink. By stage three when the babies were 8 9 months old, 8% had introduced cow's milk as the main milk drink (down from 15% in 1995). Just under three in ten (28%) had introduced it as a secondary drink and just under half (47%) were using it to mix food. In total, 54% had introduced cow's milk to their baby in some way by stage three of the survey (61% in 1995).
- The vast majority of mothers giving their babies cow's milk as a drink were giving whole milk. Amongst mothers giving cow's milk as a drink, over eight in ten (84%) were giving whole milk, 15% were giving semi-skimmed milk and 1% skimmed milk.
- In 2000, under a quarter (23%) of first time mothers attending an antenatal class on feeding (12% of all first time mothers) were taught how to make up a bottle. In 1995, almost half (46%) of first time mothers attending such a class were shown how to do this.

This chapter is concerned with the use by mothers of milk other than breast milk, looking specifically at the type of formula milks given at the different stages, the use of cow's milk, mothers receiving help with the cost of milk and problems experienced by bottle-feeding mothers both in hospital and after leaving.

3.1 The use of infant formula milk

Infant formula milk is an artificial feed, manufactured to replace breast milk as a sole source of nutrition for babies until they are weaned. In the early stages of weaning, breast or infant formula milk continues to provide the majority of energy and nutrients for the baby.

In 2000, 30% of mothers in the United Kingdom did not breast feed at all and gave infant formula as the sole source of nutrition from birth. This compares to 34% in 1995. By the first stage of the survey, when the babies were around four to ten weeks old, almost six in ten - 58% - had switched entirely to infant formula milk (compared to 62% in 1995). So, around four in ten (39%) of those who breastfed their baby had given up this method of feeding in the early weeks. A further quarter (25%) of breastfeeding mothers were supplementing their breast milk with formula milk (27% in 1995). Thus in total, three-quarters of mothers were using infant formula milk at least to some extent by the time their baby was four to ten weeks old. Just a quarter of mothers were feeding their babies entirely with breast milk.

Table 3.1

		Initial feeding method	
	Breastfed at birth %	Not breastfed at birth %	All babies %
Breastmilk only	36	-	25
Breastmilk & infant formula	25	-	17
Giving infant formula exclusively	39	100	58
Base (All stage 1 mothers)	6561	2931	9492

Table 3.1

Feeding method at around 4 to 10 weeks (stage 1) by initial feeding method (United Kingdom 2000)

As noted above, a quarter of mothers were giving only breastmilk at stage 1 but around one in six were breastfeeding and giving infant formula at least to some extent: at this stage of the survey, 41% of breastfeeding mothers were also giving infant formula. This is a lower proportion than in 1995 when 46% of breastfeeding mothers were supplementing with infant formula at stage one of the survey, and halts the steady increase that had been seen in this proportion since 1985. However, it should be borne in mind that the babies at stage one of the survey were a little younger than in 1995 and this might partly explain this. By the second stage of the survey, when the babies were around 4 - 5 months old, 45% of breastfeeding mothers were also giving their babies formula milk. This is a very similar proportion to that noted in 1995.

Table 3.2

Table 3.2

Milk other than breast milk given to breastfed babies at stages 1 and 2 (1995 and 2000, United Kingdom)

	Stage 1 (4-	10 weeks)	Stage 2 (4-5 months)	
Milk given	1995	2000	1995	2000
	%	%	%	%
Milk other than breast milk given	46	41	43	45
Only breast milk given	54	59	57	55
Base (Breastfeeding mothers)	1954	4004	1236	2195

There was some difference by country in the proportion of breastfeeding mothers also giving infant formula. As in 1995, at stage one of the survey, breastfeeding mothers in Scotland were least likely to supplement breast milk with infant formula and those in Northern Ireland most likely to do so. By stage two of the survey, when the babies were 4 – 5 months old, these differences were no longer apparent.

Table 3.3

Table 3.3

Milk other than breast milk given to breastfed babies at stages 1 and 2 by country (2000)

				Stage 1				Stage 2
	England & Wales %		Northern Ireland %	United Kingdom %	England & Wales %	Scotland %		United Kingdom %
Milk other than breast given	41	35	44	41	46	44	42	45
Only breast milk given	59	65	56	59	54	56	58	55
Base: Breastfeeding mothers	2370	893	422	4004	1289	518	211	2195

3.2 The different types of infant formula

The majority of infant formulas are based on cow's milk and can be classified according to the dominant cow's milk protein of either whey or casein. Casein dominant formulas are based on whole cow milk protein and have a casein:whey ratio of approximately 80:20. Whey dominant formulas are modified so that the casein:whey ratio is approximately

40:60, which is closer to that in breast milk. Some manufacturers claim that casein dominant formulas are more satisfying for older or hungrier babies. Although there is no firm evidence of this, these claims are likely to influence mothers.

Although most formulas are manufactured from cow's milk, some are available based on soy protein isolate as a protein source. These products may be used from birth but should not usually be a first choice unless there is a specific reason for excluding cow's milk products from the diet (COMA)¹.

Follow-on formulas, which are again based on cow's milk, may be used by mothers to provide the milk drink element in mixed diets of older babies. They are not intended to be used as a sole source of nutrition and the report of the COMA Working Group on the Weaning Diet recommends that follow-on milk should not be used as a replacement for breast milk or infant formula before the age of about six months.

The COMA report also recommends that whole cow's milk should only be used as a main milk drink after the age of one year. In addition, semi-skimmed milk is not suitable as a drink before the age of two years and fully skimmed cow's milk should not be introduced before the age of five years.

All mothers not giving only breastmilk were asked which types of milk they gave to their baby most of the time. For infant formula milk they were presented with a full list of brands from which to select their answer(s), and they were also asked to indicate which type of cow's milk they gave to their baby, if any. In analysis, the infant formula milks were coded as being whey or casein dominant.

As shown in Table 3.4 below, almost two-thirds (64%) of bottle feeding mothers were giving a whey dominant formula at stage one of the survey when the babies were 4 - 10 weeks old. This is an increase on the six in ten (60%) giving this type of formula in 1995, with a consequent decrease in the proportions using casein dominant formula from four in ten (38%) to a third (34%). However, by stage two of the survey, when the babies were 4 - 5 months old, around four in ten were using a whey dominant formula and over a half were using a casein dominant formula – similar to the picture in 1995. At stage three of the survey, when the babies were 8 - 9 months, around a fifth were giving a whey dominant formula and three in ten a casein dominant formula.

At all three stages only a very small minority were using a soya based formula (1 - 2%) of mothers giving milk other than breast milk). At stages one and two, only a very small number of mothers were giving any form of cows milk (fewer than 0.5%), though this rose to almost one in ten mothers by stage three (9%). None of the mothers said they gave skimmed cows milk most of the time and almost all the mothers giving cows milk at stage three indicated that this was whole milk. Since 1985, there has been a big change in the use of cow's milk – 7% were using it at stage two of the survey in 1985, down to 1% by 1995, and in 2000 an insignificant number of mothers were giving cows milk at stage two and less than 10% at stage three – a decline from the 16% using it in 1995.

The greatest change in use of milk other than breast milk since 1995 is in the use of follow-on formula at stage three of the survey when the babies were 8 - 9 months old. This was a trend noted in 1995, when a quarter of mothers giving milk other than from the breast were using follow-on formula (up from 5% in 1990). By 2000 this had risen to well over a third (37%), predominantly as in 1995 due to a fall in the proportions giving cow's milk.

		Stage 1		Stage 2		Stage 3
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
Whey dominant	60	64	39	41	22	20
Casein dominant	38	34	54	53	33	30
Soya-based formula	1,	1	2	2	3	2
Follow-on formula	} 2	*	2	4	25	37
Cows milk	*	*	1	*	16	9
– Whole	*	*	1	*	14	9
– Semi-skimmed	*	*	*	*	1	-
– Skimmed	-	-	*	-	*	-
Other/inadequately described	1	1	1	1	1	2
Base (Mothers giving milk other						
than breast milk)	4076	5991	4461	7102	4826	6690

Main type of milk other than breast milk given by mothers (1995 and 2000 United Kingdom)

There were some differences in the choice of type of milk between mothers who were also breastfeeding and those who were not. Breastfeeding mothers were more likely to choose a whey rather than casein based formula at all three stages of the survey: 85% of them did so at stage one, 65% at stage two and 22% at stage three (comparative figures for 1995 are only available for Great Britain rather than the UK, when 82% of mothers combining breast and formula milk gave a whey based formula at stage one, 70% gave this at stage two and 27% at stage three). At stage three, breastfeeding mothers were more likely than non- breastfeeding mothers to be using follow-on formula milk (49% of them using this type of milk compared with 36% of non-breastfeeding mothers). Both groups of mothers were equally likely to be using cows milk – a change from the position in 1995 when breastfeeding mothers were more likely than non-breastfeeding mothers to be giving cows milk at stage three of the survey (26% of breastfeeding mothers and 15% of non-breastfeeding mothers in Great Britain).

Table 3.5, Figure 3.1

There were also differences in the types of milk used between the countries. As in 1995, mothers in England and Wales were more likely than those in Scotland and Northern Ireland to use a whey rather than casein based formula, with mothers in Scotland and Northern Ireland being more likely than those in England and Wales to use a casein based formula. By stage three of the survey, when the babies were 8 – 9 months old, mothers in England and Wales were more likely than those in Scotland and Northern Ireland to give follow-on formula, with these latter two groups being more likely to give cow's milk than mothers in England and Wales. There has however been a decrease in the use of cow's milk since 1995 in all countries (from 15% to 8% in England and Wales, 21% to 12% in Scotland and 23% to 15% in Northern Ireland).

Table 3.6

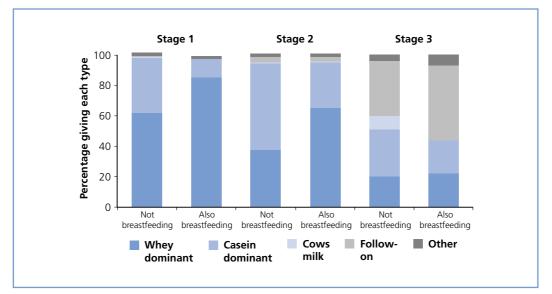
Main type of milk other than breast milk given at each stage by whether mothers were also breastfeeding (United Kingdom 2000)

			others not eeding at:	Мо	others who breastfe	were also eeding at:
	Stage 1 %	Stage 2 %	Stage 3 %	Stage 1 %	Stage 2 %	Stage 3 %
Whey dominant	62	37	20	85	65	22
Casein dominant	36	57	31	12	30	13
Soya-based formula	1	1	2	1	2	2
Follow-on formula	*	4	36	-	3	49
Cows milk	*	*	9	*	*	9
Other/inadequately described	1	1	2	1	*	5
Base (Mothers giving milk other						
than breast milk)	5415	6033	6212	576	966	470

Figure 3.1

Main type of milk other than breast milk given at each stage by whether mothers were also breastfeeding (United Kingdom 2000)

Base: Mothers giving milk other than breastmilk



	Stage 1 (4 – 10 weeks)			Stage	e 2 (4 – 5	months)	Stage 3 (8 – 9 months)		
	& Wales	-		& Wales			3		Ireland
	%	%	%	%	%	%	%	%	%
Whey dominant	67	52	49	42	33	26	21	16	15
Casein dominant	32	46	47	52	61	61	29	35	35
Soya-based formula	a 1	1	1	2	1	2	2	2	4
Follow-on formula	*	*	-	3	4	5	38	33	27
Cows milk	*	-	-	*	*	*	8	12	15
Other/inadequately									
described	1	*	2	1	1	2	2	2	3
Base (Mothers givir	ng								
non-breast milk)	3399	1488	1401	4010	1655	1491	3775	1598	1368

Main type of milk other than breast milk given at each stage by country (2000)

Use of ready-to-feed infant formula

Infant formula milk has long been available as dry powder to be reconstituted with water but, for over ten years, ready-to-feed milk has also been obtainable. All mothers who were using infant formula milk were asked at all three stages of the survey whether they used ready-to-feed milk.

Around one in eight (12%) mothers giving formula milk indicated that they used readyto-feed milk at stage one, dropping to one in ten at stage two and rising a little to one in eight at stage three of the survey.

Table 3.7

Table 3.7

Use of powdered and ready to feed infant formula (United Kingdom, 2000)

	Stage 1	Stage 2	Stage 3
	%	%	%
Powdered Ready to Feed Both	80 3 9	82 2 8	86 3 10
Base (All mothers giving formula milk)	5984	7051	6102

Although only used by the minority, this is a significant increase on the proportions using ready-to-feed in 1995, when the proportions varied between 3% and 6%. As in 1995, mothers who were breastfeeding were more likely to use ready-to-feed milk than those giving only formula milk, particularly at stage one of the survey when the babies were young: as many as a quarter of breastfeeding mothers also gave ready-to-feed milk when their babies were four to ten weeks old.

The use of ready-to feed infant formulas at different stages (1995 Great Britain and 2000 United Kingdom)*

	Stage 1			Stage 2	Stage 3		
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Mothers not breastfeeding	4	10	4	9	3	13	
Mothers who were also breastfeeding	13	25	10	16	5	20	
All mothers giving formula milk	6	12	4	10	3	13	
Bases:							
Mothers not breastfeeding	3057	5409	3780	6055	4325	5675	
Mothers who were also breastfeeding	872	575	529	996	315	427	
All mothers giving formula milk	3930	5984	4300	7051	4639	6102	

There was some variation in use of ready-to-feed milk by country. At the first two stages, mothers in England and Wales were most likely to use it and those in Northern Ireland were least likely to do so. By stage three, when the babies were 8 – 9 months old, these differences were less apparent.

Table 3.9

Table 3.9

The use of ready-to feed infant formulas at different stages by country (2000)

			Stage 1	Stage 2			Stage 3		
	England & Wales %	Scotland %	Northern Ireland %	England & Wales %	Scotland %	Northern Ireland %	England & Wales %	Scotland %	
Ready-to-feed only Ready-to-feed &	3	2	2	2	1	1	3	2	3
powdered All using ready	9	8	5	9	8	5	10	11	8
to feed	12	10	7	11	9	6	13	13	11
Base (Mothers giving formula mill	k) 3343	1467	1351	3883	1606	1406	3409	1380	1116

Additions to formula

Mothers giving formula milk were asked whether they ever added anything to the milk. Only a minority did so (ranging from 5% at stage one to 6% at stages two and three). What they added varied. At all three stages less than 0.5% of bottle feeding mothers added sugar or honey to the milk. At stage one, colic drops and gripe water were most commonly added but still by only 1% of bottle feeding mothers in each case. At stages two and three mothers were most likely to add something to thicken the milk, such as rusks or baby rice but again only 1% of mothers giving a bottle did this.

3.3 Choice of brand of formula

The infant formula that a mother uses may be influenced by the brand first used, which for most mothers bottle feeding from birth will be that used while they were in hospital. All mothers giving infant formula from birth were therefore asked if they were offered any choice of brand while in hospital. Just under nine in ten (87%) said that they were, a slight fall from the 92% of the comparable group of mothers who gave this answer in 1995. Mothers in Scotland were a little less likely to say they had been offered a choice.

Table 3.10

Table 3.10 Whether mothers were given a choice of infant formula in hospital by country (2000)

	England & Wales %	Scotland %	Northern Ireland %	United Kingdom %
Mother given a choice Mother not given a choice	87 13	84 16	88 12	87 13
Base: Stage 1 mothers giving infant formula from birth	2321	1097	1004	4156

Since leaving hospital, only three in ten mothers (30% in the United Kingdom, 29% in Great Britain) said they had changed brand after leaving hospital. This continues the downward trend noted since 1985 – in 1985 44% of bottle feeding mothers in Great Britain had changed brands at stage one of the survey and by 1995 this had decreased to 35%.

As in previous years, the most common reason for changing the formula used was because the mother thought the baby was still hungry or not satisfied (70%). Other reasons given included the baby being sick (15%), constipated (11%) or having an allergy (3%). One in twenty mothers who had changed brands did so because they preferred a different brand from that given in hospital. Included in other answers given were changing brands due to colic (2%) or unavailability (2%), or on the advice of the health visitor (1%).

Table 3.11

As in 1995, mothers in Scotland and Northern Ireland were more likely to change their brand of milk due to believing their babies to be hungry. This could account for mothers in these two countries being more likely than those in England and Wales to use casein dominant formula milk.

Table 3.12

Reasons given by mothers for changing type of infant formula (1995 and 2000, United Kingdom)

	1995	2000
-	%	%
Still hungry/not satisfied	76	70
Kept being sick	14	15
Constipation	7	11
Allergy	3	3
Preferred different brand	3	5
Other reason	9	10
Base: Stage 1 mothers who changed type of infant formula	1414	1783
* Percentages add to more than 100 as mothers may have c	given more than one reas	on

Table 3.12 Reasons given for changing type of infant formula by country (2000)

	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
Still hungry/not satisfied	68	80	79	70
Kept being sick	16	10	9	15
Constipation	11	10	6	11
Allergy	3	3	4	3
Preferred different brand	5	3	2	5
Other reason	11	6	6	10
Base: Stage 1 mothers who				
changed infant formula	949	586	561	1783

3.4 The use of cow's milk

As already discussed, less than 0.5% of mothers were giving their babies cow's milk as their main milk drink at stages one or two of the survey. However, by stage three, when the babies were 8 - 9 months old, almost one in ten (9%) of those giving milk other than breast milk were giving whole cow's milk as the main milk drink, but this was a significant decline on the 16% of mothers giving cow's milk in 1995.

In the third stage questionnaire, in addition to being asked about their use of cow's milk as a main milk drink, mothers were also asked if they used it as a secondary drink and, if so, whether they used whole, semi-skimmed or skimmed milk. They were also asked whether they used cow's milk to mix solid food.

Overall, 54% of mothers were giving their babies cow's milk in some form by the time the baby was about nine month's old. This represents a significant decline from 1995, when

61% had given cow's milk by this stage, which in turn showed a decline from 88% in 1985 and 76% in 1990.

Amongst *all* mothers, 8% had introduced cow's milk as the main milk drink by stage three of the survey. This is a significant decrease from the 15% of all mothers who had done this by this stage in 1995. Around three in ten – similar to 1995 - had introduced cow's milk as a secondary drink. Just under half of mothers (47%) used it to mix food by stage three of the survey, when the babies were around eight to nine months old.

The vast majority of mothers giving their babies cow's milk as a drink were giving whole milk. Amongst mothers giving cow's milk as a drink, over eight in ten (84%) were giving whole milk, 15% were giving semi-skimmed milk and 1% skimmed milk.

Table 3.13

	1995	2000			
	%	%			
As main milk	15	8			
Whole	14	7			
Semi-skimmed	1	1			
Skimmed	*	*			
As a secondary drink	30	28			
Whole	25	24			
Semi-skimmed	4	5			
Skimmed	*	*			
To mix food	53	47			
All using cows milk	61	54			
Base: All Stage 3 mothers	5181	7267			
Percentages do not add up to 100 as some mothers gave cow's milk in more than one way					

Table 3.13

Cow's milk given at stage 3 (1995 and 2000, United Kingdom)

There were also differences in the introduction of cow's milk by country: as in 1995, mothers in Northern Ireland were most likely to have introduced it by Stage 3 (62%), and those in England and Wales least likely to have done so (53%). This applies to the use of cow's milk for all purposes: for example, 15% of mothers in Northern Ireland had introduced it as a main drink, compared with 8% in England and Wales; 53% in Northern Ireland had introduced it to mix food compared with 47% in England and Wales.

Table 3.14

At stage three of the survey, mothers were asked at what age they had first given cow's milk, either as a drink, or to mix solid food. By the age of 4 months, very few had introduced cow's milk to their babies for any purpose, less than 0.5% having introduced it as a main drink, 1% as a secondary drink and 3% to mix food. At 6 months, still fewer than one in ten (8%) had introduced it as a secondary drink, though a fifth (20%) were using it to mix food for their baby (up from 2% and 6% at five months). From six months there was a steady rise so that over four in ten of those with a baby aged nine months had

introduced it as a mix for food, a quarter had introduced it as a secondary drink and around one in twenty as a main drink. A half of all mothers were using cow's milk in some way by the time their baby was nine months old.

Table 3.15

Age of baby	England & Wales Scotland			orthern Ireland	United Kingdom			
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
As main milk	14	8	20	11	23	15	15	8
Whole	13	6	18	9	21	13	14	7
Semi-skimmed	1	1	2	2	2	2	1	1
Skimmed	*	*	*	*	*	-	-	*
As a secondary drink	30	28	31	29	33	32	30	28
Whole	25	23	25	24	28	25	25	24
Semi-skimmed	4	4	6	5	5	7	4	5
Skimmed	*	*	*	*	*	*	_	*
To mix food	52	47	55	50	57	53	53	47
All using cows milk	60	53	66	58	67	62	61	54
Base: All Stage 3 mothers	4598	4112	1863	1718	1476	1437	5181	7267

Table 3.14

Cow's milk given at Stage 3 by country (1995 & 2000)

Percentages do not add up to 100 as some mothers gave cow's milk in more than one way

Table 3.15

Age by which mothers had introduced cow's milk for different uses (United Kingdom 2000)

nix food	AS main drink	As secondary drink	All uses
%	%	%	%
*	*	*	*
1	*	*	1
3	*	1	3
20	1	8	22
43	6	24	49
7267	7267	7267	7267
	* 1 3 20 43	* * 1 * 3 * 20 1 43 6	* * * 1 * * 3 * 1 20 1 8 43 6 24

* Based on a reduced number of cases excluding those who had not reached this age by Stage 3

3.5 Help with the cost of milk

In 2000, families in receipt of Income Support or income-based Job Seeker's Allowance were entitled to tokens for free milk. These were available from early pregnancy up to the child becoming 5 years of age. The tokens could either be exchanged for cow's milk, or -

during the baby's first year - for free infant formula. Breastfeeding mothers were entitled to exchange them for cow's milk to drink themselves.

At all three waves of the 2000 survey, mothers were asked if they received the tokens. Just under a fifth (18% stages one and two, 17% stage three) indicated they received them. This suggests a decrease on the proportion receiving tokens in 1995: mothers were only asked this question at stages two and three, and comparative figures are only available for Great Britain: in 1995, 27% of mothers in Great Britain reported receiving the tokens at stage two, and 24% at stage three. It is not possible to assess the uptake of vouchers amongst eligible families as mothers were not asked questions about receipt of benefits.

Mothers in Northern Ireland were more likely to claim that they received milk tokens, as shown in table 3.16. As many as a quarter of mothers in Northern Ireland indicated that they received the tokens.

Table 3.16

	England & Wales 	Scotland	Northern Ireland %	United Kingdom %
Received tokens Did not receive tokens	18 82	19 81	25 75	18 82
Base: All Stage 1 mothers	5440	2274	1778	9492

Table 3.16 Whether mothers received milk tokens at stage 1, by country (2000)

As in previous surveys, mothers were most likely to exchange the tokens at a child health clinic (69%). One in ten exchanged them with the milkman. These findings are similar to those noted in 1995. However, compared with 1995, many more exchanged their tokens at the supermarket: one in five (19%) did so, compared with just 7% in 1995. This increase was particularly notable in England (20%, up from 7% in 1995) and Scotland (15%, up from 4%). In Northern Ireland, only 6% of mothers (up from 2% in 1995) exchanged their tokens at the supermarket.

Table 3.17

	England & Wales	Scotland	Northern Ireland	United Kingdom			
_	%	%	%	%			
Child health clinic	71	71	51	69			
With the milkman	11	5	17	11			
At a supermarket	20	15	6	19			
At another type of shop	14	21	28	16			
Somewhere else/not stated	7	9	14	8			
Base: All Stage 1 mothers who received tokens	912	407	430	1638			
Percentages do not add up to 100 as some mothers exchanged at more than one place							

Where mothers usually exchanged milk tokens at stage 1, by country (2000)

Mothers only giving breastmilk were most likely to exchange their tokens at the supermarket. This is presumably because they were exchanging them for cow's milk for themselves, which is more readily available in supermarkets than at the child health clinic. A quarter used them at the child health clinic. A fifth exchanged them with the milkman – a decrease from the 47% of breastfeeding mothers receiving tokens who exchanged them with the milkman in 1995.

In contrast, over three quarters of mothers giving only formula milk exchanged their tokens at the child health clinic; just under a fifth took them to the supermarket and one in ten exchanged them with the milkman.

Table 3.18

Table 3.18

Where mothers usually exchanged milk tokens at stage 1, by feeding method (United Kingdom, 2000)

	Breastfed	Breast & other milk	Not breastfed	Total
-	%	%	%	%
Child health clinic	25	60	77	69
With the milkman	20	12	9	11
At a supermarket	46	26	14	19
At another type of shop	22	14	15	16
Somewhere else/not stated	2	3	3	3
Base: All Stage 1 mothers who received toker	ns 205	121	1304	1638

Percentages do not add up to 100 as some mothers exchanged at more than one place * Includes some mothers for whom feeding method not known

3.6 **Problems with giving manufactured baby milk**

In 2000, as in previous years, mothers who did not breast feed were less likely to report feeding problems than mothers who did. However, bottle feeding mothers did experience some problems, as described below.

The majority of mothers will use infant formula at some stage, so at stage one of the survey, mothers were asked if they had been shown at their antenatal class (if they attended) how to make up a bottle. This issue is mainly relevant to first time mothers.

In 2000 almost two thirds (64%) of first time mothers attended antenatal classes. The vast majority of them (52% of all first time mothers) had attended a talk on feeding their baby although less than a quarter of this subgroup (12% of all first time mothers) were shown how to make up a bottle. This compares with just over a quarter of first time mothers (27%) being shown how to make up a bottle in 1995. In 1995, 46% of first time mothers attending a class on feeding were shown how to make up a bottle. In 2000, the equivalent percentage was 23%.

Amongst those attending classes, those intending to bottle feed were more likely to be shown how to make up a bottle, but as breast feeding mothers were more likely to attend classes in the first place, a higher proportion of breastfeeding first time mothers than bottle feeding first time mothers were shown how to make up a bottle at antenatal classes (13% compared with 9%).

Table 3.19

	Intended feeding method			
	Infant formula	Breast*	Not decided	Total**
	%	%	%	%
Attended antenatal classes	39	74	56	64
Attended a talk on feeding at a class	26	61	43	52
Taught how to make up a bottle at a class	9	13	9	12
Base: All Stage 1 mothers of first babies	922	3112	390	4448
* Including those intending to give breast &				

Table 3.19

Sources of information on infant feeding for mothers of first babies by intended feeding method (United Kingdom, 2000)

** Includes some mothers for whom feeding intentions not recorded

Problems giving infant formula from a bottle in hospital

Compared with 1990 and 1995, fewer mothers who bottle fed from birth experienced problems bottle feeding while in hospital. One in eight (13%) of mothers who bottle fed from birth in the United Kingdom - compared with 17% in 1995 – said they had experienced problems. As in previous years, mothers of first babies were more likely to encounter problems than mothers of second or later children (16% compared with 11%).

A variety of problems were mentioned, as shown in table 3.20 below. Around a fifth in each case mentioned that either the baby was vomiting or, probably more seriously, that the baby had to be fed by tube. One in six mothers of first babies said their baby rejected the bottle – though only about a third of this percentage of mothers of second or later babies (6%) had this problem. Other problems mentioned were that the baby would not suck, was too slow feeding, would fall asleep during feeds, was in special care, hungry, and had colic or wind.

Table 3.20

Table 3.20

Feeding problems reported by mothers who used infant formula from birth by birth order (United Kingdom 2000)

	First births	Later births	All births
	%	%	%
Baby:			
Vomiting	20	24	22
Fed by tube	17	23	20
Wouldn't feed from bottle	17	6	11
Wouldn't suck	7	11	9
Fed too slowly	4	10	7
Always falling asleep	9	5	7
In special care	2	8	5
Hungry	5	4	4
Had colic/wind	7	2	4
Had other problems	17	23	21
Problem not specified	5	13	9
Base (Stage 1 mothers using infant formula			
from birth & having feeding problems)	171	187	358

Mothers who had problems feeding their baby formula milk were asked whether or not they were able to get help in the hospital. Around nine in ten (85%) said they were, the majority receiving help from a midwife (59%) or nurse (41%). Just under a fifth (18%) received help from a doctor (18%), though first time mothers were less likely to remember being helped by a doctor than second-time or later mothers.

Table 3.21

Problems giving infant formula from a bottle at home

Just under four in ten of mothers (39%) were exclusively giving infant formula when they left hospital and a further 8% of mothers were combining breast and bottle feeding. Amongst these mothers, 14% said they had experienced problems feeding their baby since they returned home. This compares with 17% in 1995. Many different types of problems were mentioned, as shown in table 3.22. Over a quarter of mothers giving infant formula believed their babies had been hungry and not satisfied – first time mothers were particularly likely to believe this had been the case. Over a fifth mentioned that their baby had wind or colic and one in six reported that their baby had been vomiting. A number of mothers giving formula milk reported that they had problems breastfeeding, with getting the baby to latch on, not having enough breast milk and having painful breasts. It could

be hypothesised that these mothers turned to bottle feeding because they had these breastfeeding problems or that the breastfeeding problems were partly caused by trying to use a combined breast and bottle feeding method.

Table 3.22

Table 3.21

Source of advice for mothers experiencing problems with feeding infant formula in hospital by birth order (United Kingdom 2000)

	First births	Later births	All births
	%	%	%
Midwife	61	58	59
Nurse	46	37	41
Doctor	8	27	18
Friend/relative	8	3	6
Did not receive help/not stated	11	18	15
Base (Stage 1 mothers using infant formula			
from birth & having feeding problems)	171	187	358
Percentages do not add up to 100 as some mo	others received advice	from more than one	source

Table 3.22

Feeding problems after leaving hospital amongst mothers giving infant formula from birth by birth order (United Kingdom 2000)

	First births	Later births	All births*
_	%	%	%
Baby seemed hungry/not satisfied	33	23	28
Baby had wind/colic	23	21	22
Baby vomiting	15	19	17
Wouldn't latch on	11	10	10
Baby constipated	6	7	6
Not enough breastmilk/dried up	6	4	5
Painful breast/nipples/mastitis	5	4	4
Baby always falling asleep	2	6	4
Baby fed too slowly	2	6	4
Mother tired/ill	3	3	3
Baby wouldn't suck	2	3	2
Baby wouldn't feed from bottle	2	2	2
Baby not gaining weight	3	2	2
Baby didn't like bottle milk	1	2	2
Other problems	13	16	15
Base (Stage 1 mothers giving infant formula afte	er		
hospital & having feeding problems after hospita	al) 288	325	613
* Includes mothers giving mixed breast and form	nula feeds		

The vast majority of those giving formula milk after leaving hospital and experiencing feeding problems received professional advice. Just one in ten of this subgroup did not receive help. Six in ten received advice from a health visitor and almost half from a midwife. Just over a fifth were advised by a doctor or GP. A similar proportion turned to friends or relatives, first time mothers being particularly likely to do this.

Table 3.23

Table 3.23

1

Source of advice for mothers experiencing problems with feeding infant formula at home by birth order (United Kingdom 2000)

	First births	Later births	All births*
	%	%	%
Doctor/GP	18	25	22
Health visitor	62	61	61
Midwife	51	45	48
Nurse	2	6	4
Friend/relative	28	15	21
Books/leaflets/magazines	11	5	8
Other	2	4	3
Did not receive help	9	10	10
Base (Stage 1 mothers using infant formula from			
birth & having feeding problems after hospital)	288	3255	613
		6	

Percentages do not add up to 100 as some mothers received advice from more than one source

* Includes mothers giving mixed breast and formula feeds

Weaning and the Weaning Diet. Report of the Working Group on the Weaning Diet of the Committee on the Medical Aspects of Food Policy. Department of Health. HMSO (London 1994)

4

Antenatal care, smoking and drinking

Summary

- Almost all mothers (98%) had antenatal check-ups during pregnancy. Almost twothirds (64%) of mothers of first babies had been to antenatal classes; this was a significantly lower proportion than in 1995 when 70% of mothers of first babies attended antenatal classes.
- 92% of mothers knew that increasing their intake of folic acid in early pregnancy could be beneficial. In 1995, 75% were aware of this. Almost nine in ten (89%) of all mothers had increased their intake in early pregnancy. Almost three-quarters (73%) took supplements and three in ten (31%) changed their diet. Around one in six mothers did both.
- Just over half (54%) of mothers in the United Kingdom took supplementary iron or vitamins during pregnancy, this being significantly more common in Northern Ireland where 71% took supplements.
- Just over a third (35%) of mothers in the United Kingdom smoked in the twelve months before or during their pregnancy. Three percent gave up smoking less than a year before pregnancy and were still not smoking at stage one of the survey and a further 11% gave up on confirmation of pregnancy and stayed quit. A fifth (20%) of women in the UK smoked throughout their pregnancy, even if they cut down.
- 87% of mothers drank alcohol in the two years before they became pregnant. Six in ten (61%) drank during pregnancy, a decline on the position in 1995, when two-thirds (66%) drank during pregnancy. The majority of those drinking in pregnancy (71%) drank less than one unit per week on average.
- 86% of smokers received information on the effect of smoking during pregnancy. This is the same proportion as in 1995. 77% of women who drank received advice on the effect of alcohol. This was an increase on the 71% who received advice about alcohol in 1995.

In this chapter, we investigate the attendance of mothers at ante-natal check-ups and classes, knowledge about folic acid supplementation during pregnancy, and smoking and drinking behaviour of mothers before, during and after pregnancy.

4.1 Antenatal check-ups, classes and home visits

Almost all mothers (98%) had antenatal check-ups during pregnancy. As in 1995, the proportions were similar in all countries and for first and later births. In England and Wales, around a half were seen at home by a midwife in connection with their pregnancy and a small minority were visited by a health visitor before the birth. Mothers in Scotland were less likely than those in England and Wales to receive a home visit with just four in ten saying they had experienced this. This indicates a change from the position in 1995 when six in ten mothers in Scotland (61%) said they had been seen at home prior to the birth. In Northern Ireland, around a third of expectant mothers were visited at home by a midwife and one in twenty by a health visitor, again this representing a decline on the percentage visited at home in 1995 (37% versus 49% in 1995). In all countries, visits were equally likely for first and later births.

Mothers were asked if they had gone to any classes to prepare for having their baby and by whom the classes had been organised. Women in Scotland were most likely to have attended classes (46%, as in 1995) and those in Northern Ireland least likely (32%). In England and Wales, the proportion attending antenatal classes dropped significantly to 36% in 2000 from 41% in 1995. As would be expected, women expecting their first child were more likely to have been to classes than were women who already had children: in England and Wales the rates were 64% and 11% respectively.

Table 4.1

			igland Wales		Sco	otland			rthern reland			Jnited gdom
		Later births %	All %		Later births %	All %		Later births %	All %		Later births %	All %
Had antenatal												
check-ups	98	98	98	99	99	99	98	99	99	98	98	98
Went to antenata												
classes	64	11	36	74	20	46	65	9	32	64	11	36
Had antenatal h	ome vi	sit:										
Midwife	49	48	49	28	32	30	34	31	32	47	46	47
Health visitor	7	6	7	13	8	11	6	4	5	7	6	7
Base (Stage 1												
mothers)	2560	2881	5441	1115	1159	2274	729	1049	1778	4448	5044	9492

Table 4.1

Proportion of mothers who reported antenatal check-ups, classes and home visits by birth order and country (2000)

Attendance at antenatal classes was strongly associated with occupational group. Among mothers of first babies, 82% of mothers in higher occupations had been to classes compared with 54% of those in lower occupations and only 27% of those who had never worked or had been long term unemployed. A similar pattern was also seen for later births.

Table 4.2, Figure 4.1

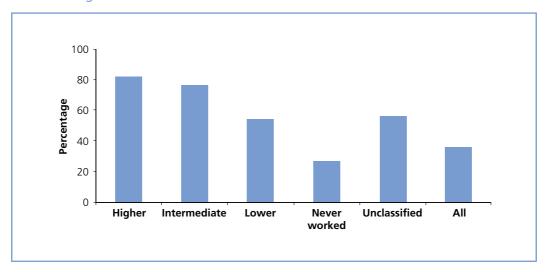
Table 4.2

Proportion of mothers who went to antenatal classes by mother's socio-economic group (NS-SEC) and birth order (United Kingdom 2000)

	First births	Later births	All	First births	Later births	All
Percentage	who went	to antenatal	classes			Bases
Higher occupations	82	18	51	1424	1367	2791
Intermediate occupations	76	13	42	898	1007	1905
Lower occupations	54	8	29	1200	1418	2618
Never worked	27	6	15	498	777	1275
Unclassified	56	11	32	427	474	901
All Stage 1 mothers	65	11	36	4448	5044	9492
J						

Figure 4.1

Proportion of mothers of first babies who went to antenatal classes by mother's NS-SEC (2000, UK)



Base: All Stage 1 mothers

As in 1995, there was significant variation between countries in who had organised the antenatal classes. In Northern Ireland, women were most likely to have been to classes run by a hospital (70%) whereas in England and Wales they were more likely to be organised by a clinic, surgery or health centre (61%). Only a small proportion of women had been to classes run by a voluntary organisation and this was more common in England and Wales (9% of women who attended classes) than elsewhere (2% in Scotland and 1% in Northern Ireland).

Who organised antenatal classes by country (2000)

	England & Wales Scotland		Northern Ireland	United Kingdom
	%	%	%	%
Hospital	40	51	70	42
Clinic/Surgery/Health Centre	61	55	33	59
Voluntary Organisation (e.g. NCT)	9	2	1	8
Other	3	1	1	3
Base (Stage 1 mothers who				
went to antenatal classes)	1947	1052	566	3445

Percentages do not add up to 100% as some mothers gave more than one answer

4.2 Folic acid and dietary supplements

In 1995, mothers were asked for the first time whether they knew that increasing their intake of folic acid could be good for them when they became pregnant. The Department of Health advises women to take a daily supplement of 400 micrograms of folic acid prior to conception and during the first twelve weeks of pregnancy and, in addition, to ensure that their diet is rich in foods containing folic acid.

In interpreting the results of this question it should be borne in mind that some mothers may have learned of the benefits of folic acid in the early weeks of their pregnancy when they had their first ante-natal appointment and their memory of when they first gained this information may be not entirely accurate. Nonetheless, the same would have been true in 1995 and what is interesting is any variation in the position since 1995 and any differences between subgroups of mothers in their knowledge and behaviour.

In 1995, three quarters (75%) of mothers in the United Kingdom said that they knew that increasing their intake of folic acid was good for them in early pregnancy. By 2000, this proportion had risen to over nine in ten (92%). Knowledge was almost universal in all subgroups though some mothers were a little better informed than others: for example, 98% of mothers in higher occupations were aware, compared with 93% of those in lower occupations.

Most women who knew about the benefits of folic acid also said they had taken some action to increase their intake. Three in ten (31%, up significantly from 26% in 1995) of all mothers had changed their diet and almost three-quarters (73%, up from 50% in 1995) had taken supplements; some had done both. However, there is no evidence of when mothers actually took this action, whether prior to conception or after they realised they were pregnant.

Compared with other countries, mothers in Scotland were more likely, and those in Northern Ireland least likely, to change their diet.

	England & Wales	Scotland	Northern Ireland	United Kingdom					
	%	%	%	%					
Changed diet	31	34	28	31					
Took supplements	73	74	74	73					
No action taken	11	10	11	11					
Base (All stage 1 mothers)	5440	2274	1778	9492					
Percentages do not add up to	Percentages do not add up to 100% as some mothers gave more than one answer.								

Table 4.4Action taken to increase intake of folic acid by country (2000)

Looking more generally at dietary supplements, mothers were asked if they had taken any vitamin or iron supplements at all during pregnancy. Overall, just over half (54%) of mothers had done so and taking supplements was more common in Northern Ireland (71%), as it was in 1995.

As in 1995, most mothers who had taken supplements (93%) had taken iron, with just four in ten of this subgroup (39%) having taken vitamins. However, the percentage of all mothers taking vitamins has risen significantly since 1995 (from 15% to 21%), while the proportion of mothers taking iron during pregnancy has fallen significantly from six in ten (59%) to half (50%). This decrease has been particularly notable in Northern Ireland: in 1995, 82% of mothers in Northern Ireland supplemented their diet with iron; by 2000 this percentage had dropped to 70%. In England and Wales and Scotland in 2000, just under half (49%) of prospective mothers took iron, a significant drop of 8 and 5 percentage points respectively. These changes are as expected, given changes in practice in the prescription of iron over the last five years.

Table 4.5

	England & Wales	•		United Kingdom
-	%	%	%	%
Iron only	33	36	54	34
Vitamins only	5	4	3	5
Vitamins and iron	16	13	16	16
Other supplements	2	3	3	2
Base (All stage 1 mothers)	5441	2274	1778	9492

Table 4.5

Type of supplements taken by country (2000)

Although there is little variation by demographic subgroup, there is an indication that those educated for a longer period were more likely to take supplements: 61% of those

who completed their education at the age of 18 or older took supplements, significantly higher than 50% of those with a terminal education age of 16 or less, and 53% of those who finished their full time education at age 17 or 18 years.

4.3 Smoking

At the first stage of the survey, when the babies were aged between about four and ten weeks, all mothers were asked a number of questions about smoking: if they had ever smoked, if they had smoked in the two years before the survey (since October 1998) and if they smoked now. They were also asked a series of questions about smoking in pregnancy and the smoking habits of the people with whom they lived. Some of these questions were similar to those asked in 1995 but many were revised to improve the reliability of the results. Therefore, only limited direct comparisons can be made with the 1995 results.

4.3.1 Smoking during pregnancy

Just over half (52%) of mothers in the United Kingdom said they had never smoked and a further 13% gave up smoking over a year before pregnancy. The remaining 35% of mothers smoked in the year before or during their pregnancy, although 3% gave up before their pregnancy was confirmed and were still not smoking at stage one of the survey. Just over one in ten (11%) gave up on confirmation of pregnancy and 1% gave up smoking later in pregnancy and stayed quit.

The remaining 20% of mothers in the United Kingdom smoked throughout their pregnancy, though most of these smokers did cut down and some did give up but then started again. Table 4.6 shows a full analysis of smoking behaviour by country, the mothers being allocated into mutually exclusive categories.

Table 4.6

The government has set a target for England in 'Smoking Kills - A White Paper on Tobacco' (1998) to reduce the proportion of women who continue to smoke during pregnancy to 15% by the year 2010, with a fall to 18% by 2005.

Table 4.7 summarises the percentages of women smoking before and throughout pregnancy by country. In 2000, 19% of women smoked throughout their pregnancy in England and in Wales. Results from the 1995 survey are not directly comparable due to the change in questions asked (see appendix 1), though results from that survey indicated that in England and Wales, 23% smoked throughout their pregnancy in 1995, while in Scotland 28% and in Northern Ireland, 27% did so.

This continues the downward trend noted since 1990 (in Great Britain in 1990, 28% of mothers smoked during pregnancy).

Table 4.7

Table 4.6Smoking behaviour of all mothers by country (2000)

	Jnited gdom	England	England & Wales	Scotland	Northern Ireland
	%	%	%	%	%
Non-smokers	65	65	65	64	64
Never smoked	52	52	52	53	54
Gave up smoking over a year					
before pregnancy	13	13	13	11	10
All smokers	35	35	35	36	36
Smoked before pregnancy but gave up	16	16	16	14	14
Gave up smoking less than a year	10	10	10	14	14
before pregnancy	3	3	3	3	3
Gave up smoking on confirmation					
of pregnancy	11	11	11	9	10
Gave up later in pregnancy, stayed quit	2	2	2	2	1
Smoked throughout pregnancy	20	19†	19	22	23
Gave up, but started again	4	4	4	5	4
Cut down	14	14	14	15	16
Did not cut down	2	2	2	2	3
Base (All stage 1 mothers)*	9126	4921	5225	2206	1722

* Excluding 366 mothers for whom smoking status could not be classified

+ The percentage for women smoking in England given in the first release of the data in August 2001 was 18%. This was based on preliminary data.

Table 4.7 Smoking and Pregnancy by country (2000)

0	age who d before r during egnancy %	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
England	35	19	4921	45	1720
England and Wales	35	19	5225	45	1844
Scotland	36	22	2206	39	802
Northern Ireland	36	23	1722	38	625
United Kingdom	35	20	9126	44	3233

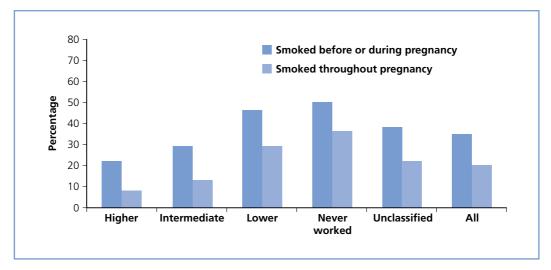
*Excludes 366 mothers who did not supply sufficient information for classifying their smoking status.

It is well known from surveys such as the General Household Survey that there is a strong association between smoking and socio-economic classification and this pattern was also seen in this survey. Women in higher occupations were less likely than other mothers to have smoked either before or throughout their pregnancy and were more likely to have given up smoking during pregnancy. In the United Kingdom as a whole, 63% of mothers

in higher occupations who had smoked in the year before pregnancy gave up smoking either before or during their pregnancy, compared with 38% of mothers in lower occupations and 29% of mothers who had never worked or were long term unemployed. Figure 4.2 illustrates this and Tables 4.8 - 4.12 give a detailed breakdown by country.

Tables 4.8-4.12, Figure 4.2





Base: All Stage 1 mothers

Table 4.8

Smoking and pregnancy by mother's socio-economic group (NS-SEC) (United Kingdom 2000)

Percentage smoked be or du pregna	fore ring	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Higher occupations	22	8	2684	63	589
Intermediate occupations	29	13	1837	55	531
Lower occupations	46	29	2510	38	1164
Never worked	50	36	1233	29	617
Unclassified	38	22	863	43	332
All mothers	35	20	9126	44	3233

*Excludes 366 mothers who did not supply sufficient information for classifying their smoking status.

Table 4.9 Smoking and pregnancy in England by mother's socio-economic group (NS-SEC) (2000)

Percentage v smoked bef or du pregna	fore ring	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Higher occupations	22	7	1450	66	321
Intermediate occupations	29	13	986	56	284
Lower occupations	46	28	1356	38	619
Never worked	48	34	672	30	324
Unclassified	38	21	457	45	173
All mothers	35	19	4921	45	1720

*Excludes 200 mothers who did not supply sufficient information for classifying their smoking status.

Table 4.10

Smoking and pregnancy in England and Wales by mother's socio-economic group (NS-SEC) (2000)

Percentage smoked be or du pregna	fore ring	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Higher occupations	22	8	1534	65	340
Intermediate occupations	28	13	1049	55	298
Lower occupations	46	28	1437	39	666
Never worked	49	35	715	30	352
Unclassified	38	22	489	44	188
All mothers	35	19	5224	45	1844

*Excludes 216 mothers who did not supply sufficient information for classifying their smoking status.

Smoking and pregnancy in Scotland by mother's socio-economic group (NS-SEC) (2000)

Percentage v smoked bet or du pregna	fore ring	Percentage who smoked throughout pregnancy	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy	Base:: Stage 1 mothers who smoked before or during pregnancy
	%	%		%	
Higher occupations	21	10	691	53	143
Intermediate occupations	34	14	450	58	153
Lower occupations	48	33	593	31	283
Never worked	52	40	259	23	135
Unclassified	42	27	211	34	88
All mothers	36	22	2206	39	802

Table 4.12

Smoking and pregnancy in Northern Ireland by mother's socio-economic group (NS-SEC) (2000)

Percentage v smoked be or du pregna	fore ring	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Higher occupations	20	11	475	46	96
Intermediate occupations	31	16	349	48	108
Lower occupations	45	29	485	35	219
Never worked	60	46	223	24	134
Unclassified	36	19	189	49	68
All mothers	36	23	1722	38	625

*Excludes 56 mothers who did not supply sufficient information for classifying their smoking status.

Tables 4.13 - 4.17 show the association between age of mother and smoking. Younger mothers were considerably more likely to smoke both before and during pregnancy in all countries. In the United Kingdom, around two thirds of teenage mothers smoked before they were pregnant and around four in ten continued to smoke throughout their pregnancy. This compares with under a quarter of older mothers over the age of 30 smoking before pregnancy and around one in eight continuing to smoke whilst pregnant.

Tables 4.13-4.17

Table 4.13Smoking and pregnancy by mother's age (United Kingdom 2000)

	Percentage who smoked before or during pregnancy %	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Under 20	65	40	624	38	403
20 - 24	53	30	1583	43	841
25 - 29	36	20	2588	45	930
30 - 34	25	13	2806	48	697
35+	24	13	1502	45	355
All mothers	** 35	20	9126	44	3233

*Excludes 366 mothers who did not supply sufficient information for classifying their smoking status. ** Includes some mothers for whom age not recorded

Table 4.14

Smoking and pregnancy in England by mother's age (2000)

	Percentage who smoked before or during pregnancy %	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Under 20	64	39	341	38	217
20 - 24	52	29	863	44	447
25 - 29	36	19	1391	45	497
30 - 34	25	12	1523	50	373
35+	23	12	808	48	187
All mothers	s** 35	19	4940	45	1720

*Excludes mothers who did not supply sufficient information for classifying their smoking status.

** Includes some mother for whom age not recorded

	ercentage who smoked before or during pregnancy %	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Under 20	65	41	365	38	237
20 - 24	53	30	921	44	485
25 - 29	36	20	1475	45	527
30 - 34	25	12	1595	49	394
35+	23	12	855	47	197
All mothers*	* 35	19	5225	45	1844

Table 4.15Smoking and pregnancy in England & Wales by mother's age (2000)

*Excludes 215 mothers who did not supply sufficient information for classifying their smoking status. ** Includes some mothers for whom age not recorded

Table 4.16 Smoking and pregnancy in Scotland by mother's age (2000)

F	Percentage who smoked before or during pregnancy %	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Under 20	61	36	134	41	82
20 - 24	59	39	341	34	202
25 - 29	37	20	640	45	234
30 - 34	26	16	693	39	183
35+	25	16	395	35	99
All mothers*	* 36	22	2206	39	802

*Excludes 68 mothers who did not supply sufficient information for classifying their smoking status. ** Includes some mothers for whom age not recorded

In all countries the majority (85% - 91%) of women who smoked remembered being given advice or information about smoking during pregnancy. Overall, 86% recalled receiving advice - exactly the same percentage as in 1995. Most women had received information from more than one source, most commonly from a midwife (88% - up from 79% in 1995) followed by a GP (49%, down from 60% in 1995). Books, leaflets and magazines were also important sources of information, and just under a third were given advice by friends and relatives. There were only minor differences in sources of advice between the different countries and these differences were similar to those observed in 1995.

	Percentage who smoked before or during pregnancy %	Percentage who smoked throughout pregnancy %	Base: All stage 1 mothers*	Percentage who gave up before or during pregnancy %	Base:: Stage 1 mothers who smoked before or during pregnancy
Under 20	61	43	95	29	58
20 - 24	54	34	259	37	139
25 - 29	39	23	508	41	196
30 - 34	25	15	578	41	143
35+	31	21	276	31	85
All mother	rs 36	23	1722	38	625

Table 4.17Smoking and pregnancy in Northern Ireland by mother's age (2000)

*Excludes 56 mothers who did not supply sufficient information for classifying their smoking status.

** Includes some mothers for whom age not recorded

Table 4.18

Sources of information about smoking during pregnancy by country (2000)

	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
Percentage of smokers who				
recalled receiving advice on smoking	85	85	91	86
Base: Stage 1 mothers who smoked in the 12 months before				
pregnancy	1844	802	625	3233
Source of information	%	%	%	%
Midwife	89	83	82	88
Doctor / GP	47	60	60	49
Books / leaflets / magazines	49	52	52	49
Friend or relative	31	34	35	31
Health Visitor	19	28	18	19
TV/Radio	14	19	18	15
Nurse	7	8	18	8
Voluntary organisation	1	1	1	1
Others	1	1	1	1
Base: Stage 1 mothers smoking during pregnancy who received				
information on smoking	1572	685	569	2764

As in previous surveys, there was no evidence that being given information about smoking during pregnancy had encouraged women to give up smoking. In fact, those who remembered being given advice were less likely to give up smoking although, as in 1995,

they were a little more likely to cut down on the number of cigarettes smoked. It could be that those who had given up smoking in the year before they became pregnant did not have the need for this advice.

Table 4.19

Table 4.19

Changes to smoking habits during pregnancy by whether woman was given advice on smoking (United Kingdom 2000)

	Given Advice	Not given Advice	All mothers who smoked before pregnancy
	%	%	%
Smoked before pregnancy, gave up			
Gave up smoking less than a year before	7	23	9
Gave up smoking on confirmation of pregnancy	28	43	30
Gave up later in pregnancy, stayed quit	5	2	5
Continued to smoke during pregnancy			
Gave up, started again	11	7	10
Cut down	43	22	40
Did not cut down	5	3	5
Base: Stage 1 mothers smoking in			
12 months before pregnancy	2767	449	3216

4.3.2 Smoking behaviour of other household members during the pregnancy

Apart from the mother's smoking behaviour, an unborn baby can be exposed to tobacco smoke from others in the household. Mothers were therefore asked for the first time in 2000 about other smokers in the household during their pregnancy. A third (34%) of mothers lived with someone who smoked when they were pregnant, this proportion being generally consistent across all countries. This was usually a partner (29%) rather than another household member (5%). As shown in table 4.20 below, four in ten mothers living with someone who smoked also smoked themselves throughout their pregnancy, but six in ten did not. This means that in addition to the 20% of mothers who smoked in the UK throughout their pregnancy, an additional fifth (21%) of mothers did not smoke themselves but lived with a smoker.

Table 4.20

4.3.3 Smoking behaviour after the birth

Table 4.21 looks at changes in women's smoking habits both during and after pregnancy, up to the time when their babies were around four to ten weeks old. As already seen, the majority of women who smoked before pregnancy continued to smoke for some time while they were pregnant. Almost all these mothers continued smoking after birth (99%) although a small proportion (1%) gave up after the birth of their baby. In the United Kingdom as a whole, around a quarter (26%) of those who gave up smoking before or during their pregnancy started smoking again in the first few months after the birth,

though three quarters (74%) of smokers who had given up during pregnancy were still not smoking at this stage.

Table 4.21

Table 4.20

Smoking behaviour of mothers and other household members during pregnancy (United Kingdom 2000)

	Mother lived with a smoker	Mother did not live with a smoker	All mothers			
	%	%	%			
Mother smoked during pregnancy Mother did not smoke during pregnancy	39 y 61	11 89	20 80			
Base: All stage 1 mothers*	3211	6170	9381			
* excludes 111 mothers not answering the question about other household member						

Table 4.21

Changes to smoking habits during pregnancy and in the first few months after the birth by country (2000)

	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
Gave up during pregnancy, smoking at stage one Gave up during pregnancy, not smoking	25	23	33	26
at stage one Base: Stage 1 mothers who gave up	75	77	67	74
before or during pregnancy	828	315	237	1426
Smoked during pregnancy, smoking at stage one Smoked during pregnancy, not smoking	99	97	99	99
at stage one	*	3	1	1
Base: Stage 1 mothers smoking throughout pregnancy	1016	488	388	1807

4.3.4 Smoking behaviour of other household members after the birth

Apart from their own smoking habits during pregnancy (when 20% of mothers in the UK continued to smoke) and after the birth, mothers were also asked about other smokers in the household once their babies had been born and up to the time their babies were four to five months old. Table 4.22 shows that at stage one, when the babies were about four to ten weeks old, 23% of mothers were smoking. This compares with 26% in 1995. Three in ten (30%) were living in a household where someone else smoked. The other smoker in

the household was usually a partner (26% in all countries, though 4% of mothers lived with someone other than a partner who smoked).

There was a correlation between mothers and other household members smoking - only 9% of mothers smoked themselves and were the only smokers in the household. So, in total, around four in ten (39%) were living in a household in which someone smoked at stage one - either the mother, her partner or another household member.

The situation was very similar when the babies were 4 - 5 months old, with 22% of mothers smoking after birth and three in ten living with someone who smoked.

Table 4.22

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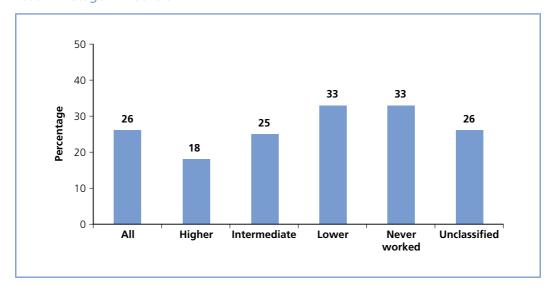
	United Kingdom	England & Wales	Scotland	Northern Ireland
-	%	%	%	%
Mothers smoking at stage 1 Other household member smoking at stage 1	23	23	25	26
Partner	26	26	27	26
Other person	4	4	4	5
Mothers & other household members smoking	g 14	14	14	14
No smokers in household	61	61	58	57
Base (All Stage 1 mothers)	9492	5440	2274	1778
Mothers smoking at stage 2 Other household members smoking at stage 2	22	22	24	24
Partner	26	26	27	25
Other person	4	4	5	4
Mothers & other household members smoking	g 13	13	14	12
No smokers in household	61	62	60	60
Base (All Stage 2 mothers)	8299	4729	1953	1617
Mothers smoking at stage 3	23	23	22	24
Base (All Stage 3 mothers)	7267	4112	1718	1437

Smoking once the baby was born by country (2000)

As would be expected, and illustrated in Figure 4.3, living with a partner who smoked was highly correlated with Social Class.

Table 4.3

Figure 4.3 Partners smoking at stage 1 by mother's social class (2000, UK) Base: All Stage 1 mothers



4.3.5 Number of cigarettes smoked

During stage two fieldwork, when the babies were 4 - 5 months old, smoking mothers were also asked about the number of cigarettes they smoked each day and, if applicable, the number smoked daily by their partner. Results are shown in Tables 4.23 and 4.24. They indicate an average of 10 - 11 cigarettes smoked by mothers of babies at this stage. Partners tended to smoke more heavily with an average daily consumption of 12 - 13 cigarettes each day.

Tables 4.23, 4.24

	United Kingdom ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	England & Wales %	Scotland %	Northern Ireland %
1-5	23	23	20	17
6-10	43	44	44	37
11-20	30	30	32	40
21+	1	1	2	3
Mean	10.7	10.5	11.3	12.4
Median	10	10	10	10
Base (Mothers smoking at Stage 2)	<i>1860</i>	<i>1051</i>	<i>4</i> 63	<i>380</i>

Table 4.23

Number of cigarettes smoked each day by mother at Stage 2 by country (2000)

	United Kingdom	England & Wales	Scotland	Northern Ireland
	%	%	%	%
1-5	17	17	15	14
6-10	37	38	35	28
11-20	39	38	44	49
21+	4	4	5	5
Mean	12.8	12.7	13.4	14.3
Median	10	10	10	15
Base (Stage 2 mothers with smoking partner)	2147	1223	520	402



4.4 Drinking during pregnancy

As in 1995, mothers were asked whether they had drunk alcohol in the past two years before stage one of the survey and whether they had done so while they were pregnant. Information about drinking during pregnancy included an assessment of the number of units consumed per week based on the frequency of drinking different types of alcohol and the amount usually consumed each time they had a drink.

For the United Kingdom as a whole, 87% of mothers had sometimes drunk alcohol before pregnancy and around six in ten (61%) drank alcohol while they were pregnant. Around three in ten (30%) drinkers gave up during pregnancy. These results indicate a decline in drinking during pregnancy since 1995 when two-thirds (66%) of mothers throughout the UK drank during pregnancy. This is in spite of the fact that new mothers tend to be older now than in 1995 and older mothers are more likely to drink during pregnancy, as shown in Table 4.25 and illustrated in Figure 4.4

Table 4.25, Figure 4.4

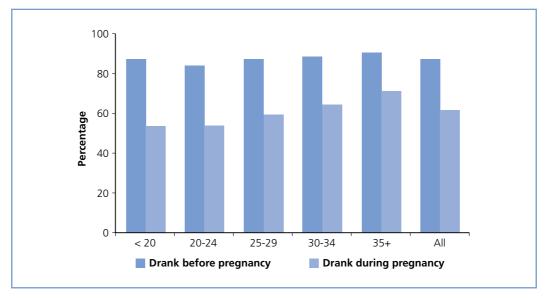
Proportion of mothers who drank alcohol before and during pregnancy and proportion who gave up during pregnancy by mother's age (1995 & 2000, United Kingdom)

pre	Drank before egnancy	Drank during pregnancy	Base: all mothers	Gave up during pregnancy	Base: drank before pregnancy
Under 20	87	53	657	39	573
20 - 24	84	54	1670	36	1408
25 - 29	87	59	2703	33	2353
30 - 34	88	64	2894	27	2536
35 or over	90	71	1534	21	1377
All stage 1 mothers (2000)*	87	61	9492	30	8266
All stage 1 mothers (1995)	86	66	5165	24	4446
* Includes some mothers for wh	iom age no	t recorded			

Figure 4.4

Prevalence of drinking before and during pregnancy by mothers age (United Kingdom, 2000)





As in 1995, women who drank during pregnancy had, on average, a very low consumption of alcohol: seven in ten drinkers (71%) consumed less than one unit of alcohol a week on average and only 3% drank more than seven units per week or an average of one unit per day. Only 1% of women drank more than 14 units per week. There was some variation by age in the amount drunk, with older mothers tending to have slightly higher consumption, although very young mothers aged under 20 also reported drinking more units per week than those aged over 20.

Estimated weekly alcohol consumption of mothers who drank during pregnancy by age of mother (United Kingdom, 2000)

		Mother's age						
	Under 20	20 - 24	25 - 29	30 - 34	35 or over	All drinkers*		
Less than 1 unit	68	73	73	70	65	71		
1 - 7 units	25	23	23	27	30	26		
8 - 14 units	3	2	2	2	4	2		
15 units or more	4	2	1	1	1	1		
Base: Stage 1 mothers who								
drank during pregnancy	349	905	1585	1858	1094	5805		
* Includes some mothers for	whom age not	recorded						

Table 4.27 looks in more detail at changes in drinking habits during pregnancy by country. As well as giving information about the amount of alcoholic drinks consumed during pregnancy, women were asked whether they drank more, less or about the same amount of alcohol than before they were pregnant. In addition to the three in ten who had given up drinking completely, two thirds (65%) of mothers claimed to have reduced their intake. The vast majority (91%) of those who reduced their intake said they did so as alcohol could cause harm to their baby. In addition, one in six (16%) said that they disliked the taste of alcohol and a similar proportion (15%) said it made them feel sick.

As in 1995, women in Northern Ireland were less likely than those in the rest of the United Kingdom to drink alcohol: 82% drank before and 52% drank during pregnancy compared with 87% and 62% respectively for mothers in England and Wales. Although more likely to have given up drinking during pregnancy than in 1995 (when 23% of drinkers in England and Wales gave up alcohol completely during their pregnancy), mothers in England and Wales were still less likely than those in other countries to give up and more likely to reduce the amount they drank during pregnancy.

Table 4.27

	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
Drank before pregnancy	87	89	82	87
Drank during pregnancy	62	59	52	61
Base: all Stage 1 mothers	5440	2274	1778	9492
Change in drinking habits during pregn	ancy			
Gave up drinking	29	34	37	30
Drank less	66	61	59	65
No change/drank more	5	5	4	5
Base: Stage 1 drank before pregnancy	4744	2030	1464	8267

Table 4.27

Changes to drinking habits during pregnancy by country (2000)

More mothers than in 1995 received advice on the effect of alcohol during pregnancy (77% of drinkers in the UK, compared with 71% in 1995). Women who drank before pregnancy were less likely to have received advice on the effect of alcohol during pregnancy than smokers were to receive advice on the effect of smoking (77% of drinkers compared with 86% of smokers). Mothers in Northern Ireland were more likely than those in other countries in the UK to be given such advice. Advice in all countries was most likely to be given by a midwife (83%, up from 73% in 1995). Books or leaflets were referred to by half of those who drank before pregnancy. Just under a third received advice from a doctor (31%, down from 41% in 1995).

Table 4.28

	ngland Wales	Northern Scotland	United Ireland	Kingdom
	%	%	%	%
Percentage of drinkers who received				
advice on drinking	77	74	82	77
Base: All Stage 1 mothers drinking				
during pregnancy	4744	2030	1464	8267
Source of information	%	%	%	%
Midwife	84	77	78	83
Printed material	48	51	50	50
Doctor	30	44	41	31
Friend of relative	18	19	20	18
TV/Radio	14	17	16	15
Health visitor	11	19	13	12
Nurse	4	6	14	7
Voluntary organisation	2	1	*	2
Base: Stage 1 mothers drinking during				
pregnancy who received information on drinking	3650	1497	1194	6360

Table 4.28

Sources of information about drinking during pregnancy by country (2000)

As also seen for smoking, receiving advice about the effects of drinking was not related to whether women gave up drinking during pregnancy. However, women who received advice were more likely to have reduced the amount they drank during pregnancy (67% compared with 59% of those not given advice).

Table 4.29

Changes to drinking habits during pregnancy by whether woman was given advice on drinking (United Kingdom 2000)

	advice lrinking %	Not given advice on drinking %	All mothers who drank before pregnancy %
Gave up drinking during pregnancy Drank less during pregnancy No change/drank more	19 67 4	23 59 7	20 65 5
Base: Stage 1 mothers drinking before pregnancy	6361	1906	8267

5

Choice of feeding method

Summary

- Two-thirds (65%) of mothers in the United Kingdom said that they planned to breastfeed their baby, this figure ranging from 51% in Northern Ireland, to 60% in Scotland and 66% in England and Wales.
- First-time mothers were more likely to intend to breastfeed than mothers of later babies (70% compared to 60% in the UK). Among mothers of later babies, those who had breastfed their previous baby for at least 6 weeks were much more likely than mothers who had exclusively bottle fed their previous baby to plan to breastfeed (94% compared with 21%).
- The most common reason for choosing to breastfeed was that breastfeeding was best for the baby's health, followed by convenience. The most common reason for choosing to bottle-feed was that it allowed others to feed the baby, followed by a dislike of the "idea" of breastfeeding.
- Three-quarters (76%) of mothers were able to state a specific health benefit in breastfeeding. Knowledge about health benefits increased with age, educational level, and socio-economic group.
- There was a familial history in breastfeeding patterns, with mothers who thought that they had been breastfed themselves being more likely to plan to breastfeed their own baby (82%) compared with those who had been bottle-fed as a baby (56%). Mothers' feeding intentions were also associated with how their peer group fed their babies. Mothers whose friends mostly breastfed were more likely to breastfeed themselves (87%) than mothers whose friends mostly bottle-fed (51%).
- Mothers who attended ante-natal classes were more likely to intend to breastfeed (79%) than mothers who did not (57%). First-time mothers attending classes were particularly likely to intend to breastfeed if these classes included discussion about feeding (82% intending to breastfeed compared with 70% attending classes without such discussion).
- One in ten mothers who breastfed (9%) said that they felt pressured into this decision, rising to 12% of first-time mothers who breastfed. This pressure was mainly linked to midwives (76% of those feeling pressured).

This chapter covers how mothers planned to feed their baby, and the reasons that lay behind their choice. We also look at how social factors are associated with intentions to breastfeed, as well as contact with health professionals. Mothers' knowledge of the health benefits of breastfeeding is also explored.

5.1 Planned method of feeding

Table 5.1

All mothers were asked how they had **intended** to feed their baby before the birth, regardless of how the baby was actually fed once born. Table 5.1 illustrates the feeding intentions of mothers prior to the birth of their baby, by birth order and survey year. In 2000, as in 1995, the majority of mothers said that they had planned before the birth how to feed their baby. Only 8% of all mothers, and 9% of mothers of first babies, had not decided on a feeding method.

The 2000 survey shows that the proportion of all mothers planning to breastfeed has remained unchanged since 1995, with 65% of mothers in the United Kingdom planning this. Mothers expecting their first baby in 2000 were more likely to plan to breastfeed than mothers having a later baby (70% compared to 60%). Compared with 1995, there was a small rise in the proportion of mothers with later babies planning to breastfeed (from 58% to 60%), although the rate among first babies remained unchanged.

Table 5.1

Fin	First births		Later births		All babies	
1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
70	70	58	60	64	65	
22	21	37	33	30	27	
8	9	5	6	6	8	
2,355	4,448	2,845	5,044	5,181	9,492	
	1995 % 70 22 8	1995 2000 % % 70 70 22 21 8 9	1995 2000 1995 % % % 70 70 58 22 21 37 8 9 5	1995 2000 1995 2000 % % % % 70 70 58 60 22 21 37 33 8 9 5 6	1995 2000 1995 2000 1995 2000 1995 2000 1995 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 1995 0 0 1995 0 0 1995 0	

Mother's intended method of feeding by birth order (1995 and 2000, United Kingdom)

Within individual countries, the percentage of mothers planning to breastfeed ranged from 66% in England and Wales to 60% in Scotland and 51% in Northern Ireland, this variation reflecting the differences between countries in the actual incidence of breastfeeding (see section 2.1). Also in line with changes in the incidence of breastfeeding, the proportion of mothers planning to breastfeed in Scotland and Northern Ireland had increased significantly since 1995. During this time period, intentions to breastfeed in Scotland rose from 54% to 60%, and in Northern Ireland from 44% to 51%.

Table 5.2		
Mother's intended method	of feeding by country, 19	995 and 2000

	England & Wales		s	۲ Scotland		orthern Ireland	K	United Kingdom	
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Breast*	65	66	54	60	44	51	64	65	
Not breast	29	26	38	31	48	40	30	27	
Had not decided	6	7	8	9	8	9	6	8	
Base (All Stage 1 mothers)	4,598	5,441	1863	2,274	1476	1,778	5181	9,492	
* Includes mothers who intended to combine breast and bottle feeding									

Figure 5.1 and Table 5.3 illustrate the effect that previous experience has on the intention of mothers of later babies to breastfeed. As in previous years, there was a strong correlation between previous experience of feeding and intentions regarding their latest baby. Mothers who had previously breastfed were more likely than others to intend to breastfeed their latest baby, and the longer they had breastfed the more likely this was to be the case. Six in ten mothers (60%) who had breastfed for less than six weeks, and 94% of mothers who had breastfed for longer than this planned to breastfeed their latest baby. This compares with a fifth (21%) of mothers who had not breastfed previous children, which is similar to the proportion (26%) who did actually switch to breast from bottle feeding for their later child (see section 2.2).

Table 5.3, Figure 5.1

Table 5.3

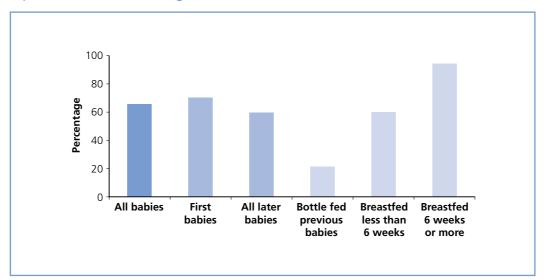
Mother's intended method of feeding by previous experience of breastfeeding (United Kingdom, 2000)

	Did not	Breastfed for	Breastfed for	All later
	breastfeed	less than 6 weeks	6 weeks or more	babies**
	%	%	%	%
Breast*	21	60	94	60
Not breast	69	30	3	33
Had not decided	9	10	2	6
Base (All Stage 1 mother of later babies)	s 1793	966	2068	5044

* Includes mothers who intended to combine breast and bottle feeding

** Includes mothers where feeding history of previous baby unknown

Figure 5.1



Percentage of mothers planning to breastfeed by birth order and previous experience of breastfeeding

As found in previous surveys, almost all mothers (96%) carried out their stated intentions regarding feeding and this is illustrated in table 5.4. However, some caution should be placed on these high levels of correspondence as mothers asked retrospectively about their intentions may have forgotten, and/or rationalised, their behavioural intentions in the light of the method which they actually chose after the birth.

In general, mothers who planned to breastfeed were slightly more likely to have carried out their intentions compared with those who planned to bottle feed, although the correspondence between stated intentions and behaviour was almost universal in all cases.

Table 5.4

Table 5.4

-	England & Wales Perce	Scotland	Northern Ireland way planned	United Kingdom
Breast Not breast All who planned Bases (All Stage 1 mothers who had decided on method)	97 94 96	98 95 97	95 94 94	97 94 96
Breast Not breast All who planned	3,601 1,410 5,011	1,362 696 2,058	903 712 1,615	6,163 2,564 8,727

Proportion of mothers who fed their baby in the way they had planned by method and country (2000)

5.2 Choice of feeding method

5.2.1 Reasons for choice

Mothers were asked their reasons behind their intended method of feeding. Table 5.5 illustrates the reasons given by those mothers who intended to breastfeed by birth order, and results are compared for 1995 and 2000. By far the most common response in 2000 was that breastfeeding was "best for the baby", this including all responses relating to the health of the baby including mentions of increased immunity to illness, nutrition, reduced risk of allergies as well as more general mentions of health benefits. This reason was cited by more mothers of first babies who intended to breastfeed (85%) than mothers of later babies (73%). The next most common reason, given by 37% of these mothers in 2000, was convenience; just under a quarter (23%) said that they chose breastfeeding as it could help to develop a closer bond between the mother and the baby, and a similar proportion (20%) cited the lack of cost as a factor.

Overall, responses given in 2000 were similar to those given in 1995.

Table 5.5

Table 5.5

Mother's reasons for planning to breastfeed by birth order (United Kingdom, 1995 & 2000)

	First births Later births		A	ll babies			
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Breastfeeding is best for baby	89	85	77	73	83	79	
Breastfeeding is more convenient	36	34	37	40	37	37	
Closer bond between mother and baby	21	23	19	23	20	23	
Breastfeeding is cheaper/free	23	21	19	19	21	20	
Breastfed previous baby (babies)	-	-	33	32	17	16	
Breastfeeding is natural	14	14	10	11	12	12	
Breastfeeding better for mother's health	13	13	10	11	12	12	
Mother loses weight more easily**	n/a	13	n/a	9	n/a	11	
Influenced by health professionals	3	4	2	2	3	3	
Influenced by friends or relatives	2	4	1	1	2	3	
History of allergies/illness in family*	n/a	3	n/a	3	n/a	3	
No particular reason	0	3	0	4	0	3	
Other reason	2	4	3	4	2	4	
Base (Stage 1 mothers who planned to breastfeed)	1,640	3,112	1,661	3,051	3,301	6,163	
* This code introduced in 2000 ** In 1995, comments about mother losing weight were included in "Better for mother's health"							

Percentages do not add to 100 as some mothers gave more than one reason

Table 5.6 displays the reasons why women of second or subsequent babies planned to breastfeed by whether mothers had breastfed previous children. This highlights the differences between mothers who were able to base their reasons on experience, against

the small subsample of mothers who had had no prior experience and had decided to switch to breastfeeding after bottle-feeding previous children.

Women with previous experience of breastfeeding gave a more diverse set of reasons for wishing to breastfeed and placed much more emphasis on the practical benefits including convenience (42% compared with 23% of mothers with no experience of breastfeeding) and lack of cost (19% compared with 11%). They are also more likely to mention bonding between mother and child (24% compared with 9% of mothers with no previous experience), and inevitably a high proportion (37%) mention their experience of feeding previous children. Mothers with no previous experience mainly focussed on the health benefits for the baby (65%) and the convenience (23%) although a lower proportion mentioned both these aspects when compared to mothers with breastfeeding experience. Mothers with no previous experience of breastfeeding were more likely to give a non-specific response as to why they planned to breastfeed (13% compared with 3% of mothers with experience).

Table 5.6

Table 5.6

Mother's reasons for planning to breastfeed by previous experience of breastfeeding (United Kingdom, 2000)

At least o	one breastfed	None breastfed
	%	%
Breastfeeding is best for baby	74	65
Breastfeeding is more convenient	42	23
Closer bond between mother and baby	24	9
Breastfeeding is cheaper/free	19	11
Breastfed previous baby (babies)*	37	-
Breastfeeding is natural	11	5
Breastfeeding is better for mother's health	12	9
Mother loses weight more easily**	10	6
Influenced by health professionals	2	3
Influenced by friends or relatives	1	2
History of allergies/illness in family*	3	3
No particular reason	3	13
Other reason	3	8
Base (Stage 1 mothers with more than one child who planned to breastfeed)	2663	316

Table 5.7 illustrates the most common reasons for intending to use infant formula rather than breastfeed, and data is shown by birth order for the last two survey years. In 2000, the main responses given by women for planning to bottle-feed are the flexibility of other people being able to feed baby (25%), simply not liking the "idea" of breastfeeding (19%), and because of previous experience of bottle-feeding (15%).

First-time mothers were more likely than mothers of later babies to object to the "idea" of breastfeeding (27% compared with 15%). One in six mothers of later babies (16%) mentioned having breastfed a previous baby and being put off by the experience.

Compared with 1995, mothers in 2000 who had planned to bottle-feed were less likely to mention the flexibility aspect of others feeding the baby (25% compared with 36% in 1995) and being put off by the idea of breastfeeding (19% compared with 27%).

Table 5.7

Table 5.7

Mother's reasons for planning to bottle feed by birth order (United Kingdom, 1995 & 2000)

	Firs	st births	Late	er births	A	ll babies
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
Other people can feed baby Did not like the idea of breastfeeding Bottle-fed previous children* Breastfed previous children and didn't	46 34 }-	29 27 - -	32 23 }44	22 15 23 16	36 27 } 30	25 19 15 10
get on with it* Can see how much the baby has had Would be embarrassed to breastfeed Expecting to return to work soon Bottle feeding is less tiring Medical reasons for not breastfeeding No particular reason	7 11 12 2 3 2	7 4 7 2 2 5	5 4 3 6 4 1	4 4 2 2 4 3	6 7 6 4 4 1	5 4 4 2 4 4
Other reason Base (Stage 1 mothers who planned to bottlefeed)	6 513	6 921	5 1,044	5 1,642	6 1 <i>,557</i>	5 <i>2,563</i>
* In 1995, these two codes were combi Percentages do not add to 100 as some		ive more th	an one reas	on		

A fifth (19%) of mothers planning to bottle-feed had breastfed a previous baby in the past. Nearly half (46%) of this subgroup cited being put off by past experience of

breastfeeding as a reason for choosing bottle-feeding this time round.

5.3 Awareness of health benefits of breastfeeding

For the first time, the 2000 survey explored mothers' awareness of the health benefits in breastfeeding. The majority of mothers (86%) said that were aware of health benefits in breastfeeding and this was broadly the same across all countries. However, when asked to state what they thought these benefits were, 12% of this subgroup did not give an answer. It could be argued that those mothers who were unable to give an answer to this question were not truly knowledgeable, and if these mothers are omitted from analysis the proportion who are aware of health benefits reduces to 76%.

Table 5.8 displays the proportion who say that they were aware of the health benefits of breastfeeding in total, together with the adjusted proportion (i.e. those aware and able to give a substantiating reason). The commentary which follows refers to the adjusted proportion as this is considered to be a more accurate gauge of mothers' knowledge.

By country, there is little variation in the proportion of mothers aware and able to give a reason. However, there are clear variations by demographic subgroups. Knowledge about health benefits increases with age, with 80% of mothers aged at least 30 claiming to be aware compared with 57% of teenage mothers. There is also a strong gradient by socio-economic group with 89% of mothers in higher occupations aware reducing to 73% of mothers in lower occupations and 54% of those who have never worked.

White women and those of mixed or other ethnic origins were more knowledgeable according to this measure with around three-quarters being aware compared with three in five mothers from Black and Asian ethnic groups. This differential is interesting given that Asian and Black women are more likely to initiate breastfeeding than white women (see section 2.1). Thus the data would suggest that the increased propensity of mothers from Asian and Black ethnic backgrounds to breastfeed is not driven by a better knowledge of the beneficial effects of breastfeeding, but is perhaps linked to a more general cultural influence.

We also looked at mother's knowledge of the health benefits of breastfeeding by how mothers planned to feed, and experience of feeding any previous children. Mothers planning to breastfeed were much more likely to be aware of the benefits (83%) compared with those who planned to bottle-feed (60%). And mothers who had breastfed before were much more likely to show an awareness (81%) compared with those who had had previous children but had never breastfed (61%)

Table 5.8

Mothers who said that they were aware of health benefits were asked what these were. Answers were collected as an open response and later coded into a codeframe. Answers given by more than 5% of the subset of mothers who were aware of health benefits are shown in table 5.9

The most commonly cited health benefit was the increased immunity against illness offered to babies through breastmilk. Three quarters of mothers in the United Kingdom aware of health benefits mentioned this. Other benefits for the baby mentioned by at least a fifth of this subset of mothers were breastmilk being more nutritious (37%), reduced likelihood of asthma, eczema or other allergies (23%), and reduced likelihood of colic/wind (20%). Some mothers also mentioned benefits for the mother including helping her uterus to contract (23%) and a reduction in the risk of breast or ovarian cancer (19%).

Mothers in Scotland who showed an awareness of health benefits were less likely than mothers in other countries to mention nutrition (24% compared with 38% in England & Wales and 36% in Northern Ireland) but were more likely to mention reduced risk of allergies (32% compared with 23% and 25%) and reduced risk of cancer for mothers (31% compared with 18% and 19%).

Table 5.9

Proportion of mothers who say they are aware of health benefits by country, mother's age, age completed full-time education, mother's socio-economic group (NS-SEC), ethnicity, how planned to feed baby and whether previous children breastfed (United Kingdom, 2000)

	Proportion aware of health benefits	Proportion aware of health benefits and able to give reason	Base
All Stage 1 mothers*	86	76	9492
Country			
England & Wales	85	76	5441
Scotland	88	77	2274
Northern Ireland	86	74	1778
Mother's age			
Under 20	64	57	657
20-24	78	69	1670
25-29	88	77	2703
30+	90	80	4428
Mother's socio-economic group (NS-S	SEC)		
Higher occupations	96	89	2791
Intermediate occupations	91	81	1906
Lower occupations	83	73	2619
Never worked	65	54	1276
Unclassified	79	61	901
Ethnicity			
White	87	77	8609
Asian	68	60	275
Black	79	60	184
Mixed	81	76	93
Other	74	62	66
How planned to feed baby			
Planned to breastfeed	91	83	6162
Planned to bottle-feed	73	60	2564
Did not plan feeding method	82	70	713
Whether previous children breastfed			
Yes, previous child breastfed	91	81	3336
No, none breastfed	75	61	1577
First-time mother (no previous children)	85	77	4448

* Includes some mothers for whom there are missing values on some of the variables tabulated

Knowledge of health benefits of breastfeeding by country, 2000

	England & Wales	Scotland	Northern Ireland	United Kingdom
-	%	%	%	%
Health benefits for baby				
Helps build immunity/fight infections & diseas	ses 76	76	72	75
Breastmilk more nutritious	38	24	36	37
Reduced likelihood of asthma/eczema/other allergies	23	32	25	23
Less wind/colic/digestive problems	20	22	21	20
Better growth and development	6	10	11	10
Helps bonding with baby	9	9	12	9
Good for baby generally	12	12	17	12
Health benefits for mother				
Helps uterus contract/mother to lose weight	23	20	23	23
Reduced risk of breast or ovarian cancer	18	31	19	19
Base (Stage 1 mothers aware of health benef of breastfeeding & able to give a reason)	ïts 4112	1754	1324	7179

5.4 Factors associated with planned feeding method

Demographic, social and cultural factors are an important influence on a woman's choice of feeding method. However, as discussed in section 5.1, there is such a strong correspondence between stated intentions and actual behaviour, that there is little point examining the relationship between feeding intentions and key demographic factors - such as mother's socio-economic classification, ethnicity, age and educational level – as these will almost exactly replicate the associations between these factors and actual breastfeeding behaviour, discussed in detail in Chapter 2.

Thus, we know that intentions to breastfeed are most prevalent among older mothers, mothers from ethnic minority backgrounds, mothers in higher socio-economic subgroups, and those who completed their education later.

This section therefore concentrates more on social variations in women's intentions to breastfeed. The way women were themselves fed as babies and how their friends fed their babies were both strongly associated with their planned method of feeding. This suggests either that contact with other people who have breastfed may be influential or at least that other people may contribute to create an environment that supports and encourages breastfeeding.

Table 5.10 illustrates that women who knew that they had been breastfed, even if this had been in combination with bottle feeding, remained more likely to plan to breastfeed their baby than were women who were entirely bottle fed or who did not know how they had been fed. Results were broadly the same across all countries. In England and Wales, 82% of women who themselves had been breastfed now planned to breastfeed compared with 57% of mothers who were bottle fed entirely.

Table 5.10, Figure 5.2

Proportion of mothers who planned to breastfeed their baby by how mother was fed and by country (2000)

	England & Wales	Scotland	Northern Ireland	United Kingdom	England & Wales	Scotland	Northern Ireland	United Kingdom
	Percentag	ge who pla	nned to bi	reastfeed		Bas	ses	
Breastfed entire Breast & infant formula	,	80 77	70 60	82 75	1,116 1,045	351 273	147 153	1,852 1,721
Not breastfed Not known	57 60	53 54	48 44	56 57	2,761 516	1,470 179	1,346 131	5,037 881
All Stage 1 mothers	66	60	51	65	5,441	2,274	1,778	9,492

Figure 5.2

Proportion of mothers who planned to breastfeed their baby by how mother was fed Base: All Stage 1 mothers

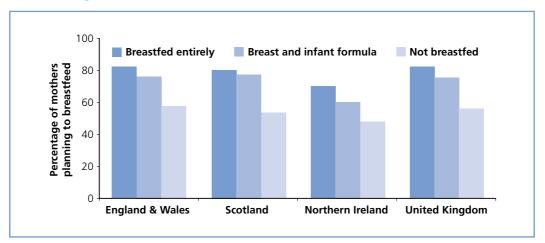


Table 5.11 illustrates that women's feeding intentions were also associated with how their friends fed their babies. In Scotland for example, the proportion of women intending to breastfeed ranged from 85% among women who said that most of the mothers they knew breastfed their babies to 47% among those who said that most of their friends and acquaintances bottle fed their babies. These patterns are likely, of course, to reflect the fact that a woman's friends would be likely to have similar characteristics as herself and so may be related to the associations with age, educational level and social class already mentioned.

Women who said that they did not know other mothers - and therefore one assumes were relatively unaffected by the potential influence of peers – were positioned between the two extremes in terms of breastfeeding intentions; in Scotland, just over half of this subgroup planned to breastfeed.

Table 5.11, figure 5.3

Proportion of mothers who planned to breastfeed their baby by how most of her friends fed their babies and by country, 2000

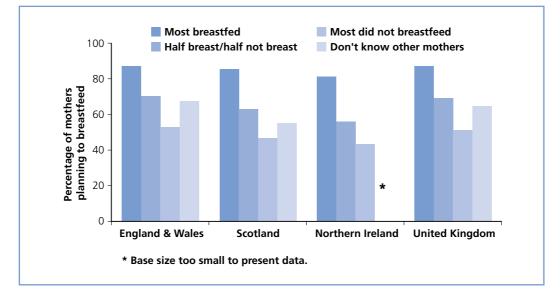
-	land /ales	Scotland	Northern Ireland	United Kingdom	England & Wales	Scotland	Northern Ireland	United Kingdom
Perc	entag	e who pla	nned to br	reastfeed		Bas	ses	
Most breastfed Half breast/half not breast	87 70	85 63	81 56	87 69	1,217 1,263	489 497	209 342	2,063 2,174
Most did not breastfeed	53	47	43	51	2,061	970	1,039	3,733
Don't know other mothers	67	55	[18]	65	919	56	[35]	1010
All Stage 1 mothers	66	60	51	65	5,438	2,273	1,777	9,492

* Bases do not sum to total due to missing data on how friends fed babies (including "don't know how other mothers feed babies")

Figure 5.3

Proportion of mothers who planned to breastfeed their baby by how most of her friends feed babies

Base: All Stage 1 mothers



5.5 **Contact with health professionals**

As shown in previous surveys, almost all mothers (98%) had had some antenatal checkups during pregnancy. Mothers were asked whether anyone had asked about their feeding intentions during these check-ups and whether anyone had discussed feeding with them. Given that some of these discussions may have taken place up to a year before the survey questionnaire was completed some caution should be placed on the results due to memory recall error. Table 5.12 shows that seven in ten mothers (68%) in the United Kingdom recalled discussing feeding at their ante-natal check-ups, this figure being higher for mothers expecting their first baby (70%) than for those who already had children (65%). By country, mothers in Scotland were the most likely to have discussed feeding during ante-natal check-ups (79%), while mothers in England and Wales were the least likely (66%).

Around one in six mothers (17% in the United Kingdom) recalled being asked about their feeding intentions but did not recall any discussion about this. The proportion of mothers who did not remember discussing any aspect of feeding was 13% in the United Kingdom. Mothers in England and Wales were more likely than mothers in other countries to have not discussed any aspect of feeding (15% compared with 6% in Scotland and 10% in Northern Ireland).

Table 5.12

Table 5.12

Whether mother was asked about plans or discussed feeding at antenatal check-ups by birth order and country, 2000

	England & Wales				Scotland			Northern Ireland			United Kingdom		
		Later births %	All %	First births %	Later births %	All %		Later births %	All %	First births %	Later births %	All %	
Had discussion about feeding	69	64	66	82	76	79	78	71	74	70	65	68	
No discussion but asked about plans		20	17	12	17	14	12	17	15	15	19	17	
No discussion and not asked about plans	14	14	15	5	6	6	9	11	10	13	15	13	
All who had antenatal check-ups	98	98	98	99	99	99	99	99	99	98	99	98	
Base (All Stage 1 mothers)	2560	2881	5441	1115	1159	2274	729	1049	1778	4,448	5,044	9492	

Table 5.13 shows the proportion of mothers discussing feeding at ante-natal check-ups by survey year. Between 1995 and 2000 there was an increase in the proportion of mothers who had discussed feeding during antenatal checks from 58% to 68%. This increase was evident for both first births (from 64% to 70%) and for later births (from 53% to 65%).

Table 5.13

Table 5.13

Whether mother was asked about plans or discussed feeding at antenatal check-ups by birth order (United Kingdom 1995 and 2000)

	Firs	st births	Late	er births	All babies		
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Had discussion about feeding	64	70	53	65	58	68	
No discussion but asked about plans	23	15	33	19	29	17	
No discussion and not asked about plans	12	13	13	15	12	13	
All who had antenatal check-ups	99	98	99	98	99	98	
Base (All Stage 1 mothers)	2332	4448	2840	5044	5172	9492	

As discussed in the previous chapter, mothers were asked if they had gone to classes to prepare for having their baby and whether the classes had included any talks or discussions about feeding. Table 5.14 illustrates that women expecting their first child were more likely than mothers of later babies to have been to antenatal classes and, as most classes included talks or discussions about feeding, they were also more likely to have attended talks on feeding. In the United Kingdom, just over half (52%) of mothers of first babies and less than one in ten (8%) of mothers of later babies had been to classes that included talks on feeding.

Compared with the other countries, mothers in Scotland were more likely to attend antenatal classes, and they were also more likely to have discussed feeding. This difference is seen for both first and later births.

Table 5.14

Table 5.14

Whether mother went to classes to prepare for having the baby and whether classes included talks or discussions about feeding by country, 2000

	England & Wales				Scotland			Northern Ireland					
	First births %	Later births %	All %										
Went to classes Went to classes with talks on feeding	64 51	11 8	36 28	74 59	20 12	46 35	65 53	9 6	32 25	64 52	11 8	36 28	
Base (All Stage 1 mothers)	2560	2881	5441	1115	1159	2274	729	1049	1778	4,448	5,044	9492	

Table 5.15 compares the proportions of mothers who intended to breastfeed according to whether they had discussed feeding at antenatal check-ups or classes. As in 1995,

discussion of feeding at antenatal check-ups was not found to be associated with the intention to breastfeed, and this was the case for both first and later births.

Attendance at antenatal classes, however, shows a stronger association with feeding intentions and a positive relationship between attendance at classes and the intention to breastfeed is clear. Mothers who had not attended classes were less likely than others to plan to breastfeed (57%). There also appears to be a small effect from attending classes which specifically included discussion about feeding. Four-fifths (81%) of mothers attending classes which included this intended to breastfeed compared with 71% of mothers who attended classes but without such discussion. This differential was concentrated solely within the first-time mothers; mothers expecting later babies were as likely to intend to breastfeed regardless of whether their classes included this subject matter.

Table 5.15

Table 5.15

Proportion of mothers intending to breastfeed by whether discussed feeding at antenatal check-ups or whether went to classes with talks about feeding, by birth order (United Kingdom, 2000)

	First births	Later births	All	First birth	Later birth	All
	Percenta	age to be bro	eastfed		Bases	
Antenatal check-ups						
Discussed feeding at antenatal check-ups	70	60	65	3,129	3,287	6,417
Did not discuss or did not have check-up	69	60	64	1,265	1,695	2,960
Antenatal classes						
Went to classes with talks or discussion about feeding	82	77	81	2,306	394	2,699
Went to classes, no talks on feeding	70	76	71	551	182	732
Did not go to classes	52	58	57	1,555	4,432	5,986
All Stage 1 mothers*	70	60	65	4,448	5,044	9,492

* Bases do not sum to total as not all mothers answered the questions on antenatal care.

For the first time in 2000, the issue of whether or not the mother ever felt pressured into making her decision on how to feed her baby was explored in more depth. Table 5.16 illustrates that, overall, nine in ten mothers (90%) reported that they did not feel pressurised into their choice of feeding method. Of those mothers who did feel pressured into making a decision, the large majority felt pressured into breast (8%) as opposed to bottle-feeding (1%). These proportions were broadly the same across all countries. There a small but significant difference in the proportion of first-time mothers feeling pressured into breastfeeding (10%) when compared to mothers of later babies (6%).

Table 5.16

Table 5.16

Proportion of mothers who felt pressured into making decision on how to feed baby by country and birth order, 2000

		England & Wales			Scotland			Northern Ireland					
	First births %	Later births %	All %	First births %	Later births %	All %	First births %	Later births %	All %		Later births %	All %	
Felt pressured into breastfeeding	10	6	8	7	5	6	9	5	7	10	6	8	
Felt pressured into bottle feeding	2	1	2	1	1	1	1	1	1	2	1	1	
Did not feel pressured into eith	86 Ier	92	89	91	93	92	89	93	91	87	92	90	
Base (All Stage 1 mothers)	2560	2881	5441	1115	1159	2274	729	1049	1778	4,448	5,044	9492	

The above table illustrates the proportion who felt pressured into making particular feeding decisions based on **all** mothers. Table 5.17 shows, by birth order within country, the proportion of all mothers **breastfeeding at birth** who felt pressured into making this decision. This shows that 12% of first-time mothers in the United Kingdom who chose to breastfeed felt some pressure to do this, this figure being slightly lower in Scotland (9%).

Table 5.17

Table 5.17

Proportion of mothers breastfeeding at birth who felt pressured into breastfeeding by country and birth order, 2000

	England & Wales				Scotland			Northern Ireland					
		Later births %	All %	First births %	Later births %	All %		Later births %	All %	First births %	Later births %	All %	
Felt pressured into breastfeeding	o 12	7	10	9	7	8	12	7	9	12	7	9	
Base (All Stage 1 mothers who breastfed initially)	1932	1905	3837	747	684	1431	430	533	963	3296	3266	6562	

It is interesting to compare the duration of breastfeeding for those mothers who felt some pressure to do so with the duration for all breastfeeding mothers. Table 5.18 shows that those mothers who felt under pressure were much more likely than average to give up breastfeeding within the first few weeks. Over a third (36%) gave up within the first two weeks, compared with 21% of all breastfeeding mothers. By 4 months, a quarter of

breastfeeding mothers who felt pressured were still breastfeeding, compared with 44% of all breastfeeding mothers.

Table 5.18

Table 5.18

Duration of breastfeeding for those who breastfed initially by whether felt pressured into breastfeeding (United Kingdom, 2000)

	Breastfeeding mothers who felt pressured	All breastfeeding mothers
	%	%
Birth	100	100
1 week	72	84
2 weeks	64	79
6 weeks	44	64
4 months (17 weeks)	26	44
6 months (26 weeks)	20	34
9 months (39 weeks)	11	19
Base (Stage 3 mothers who breastfed initially)	428	5023

Mothers who did feel under some pressure to feed in a particular way were asked to indicate who had made them feel this way. The figures are shown in Table 5.19 individually for mothers who felt pressured into breast and bottle feeding. The large majority of mothers feeling pressured into breastfeeding felt this pressure from midwives (76%); a quarter (25%) felt under pressure from health visitors and 20% from friends. For the small subset of mothers who felt under pressure to bottle-feed this push was much less likely to come from health professional sources. Just over a third (37%) of bottle-feeding mothers under pressure mentioned midwives, and only 12% mentioned the health visitor. However, they were more likely than breastfeeding mothers to cite their own mother as a source of pressure (25% compared with 11% of breastfeeding mothers).

Table 5.19

Table 5.19

Who made mothers feel pressured into breastfeeding and bottle feeding (United Kingdom, 2000)

	Mothers feeling pressured into breastfeeding	Mothers feeling pressured into bottle feeding
	%	%
Midwife	76	37
Health visitor	25	12
Friends/other mothers	20	20
Partner	16	17
Doctor/GP	16	12
Nurse	15	11
Mother	11	25
Voluntary organisation (e.g. National Childbirth Trust)	7	-
Grandmother	3	5
Base (All Stage 1 mothers feeling pushed into feeding meth	od) 734	138

6

The birth & post-natal care

Summary

- The type of analgesic given to mothers during labour had an effect on their likelihood to breastfeed, with mothers who were given a general anaesthetic being less likely to start breastfeeding (62%) than mothers who had an epidural (71%) or no analgesic at all (72%).
- Mothers who experienced a delay before they first fed their baby were more likely to have given up breastfeeding in the first two weeks than were mothers who breastfed their baby immediately.
- If the baby was given formula milk in hospital, it is a strong indicator that the mother will not continue breastfeeding after leaving hospital. Two fifths (40%) of breastfeeding mothers whose babies had been given a bottle while in hospital had stopped breastfeeding within two weeks, compared with one in eight breastfeeding mothers (13%) whose babies had not been given a bottle.
- 32% of breastfeeding mothers experienced problems feeding their baby in hospital. Although the group is small, mothers who did not receive help for these problems were more likely to have given up breastfeeding within the first two weeks (47%) than those who received help (29%). A similar proportion of breastfeeding mothers (35%) experienced feeding problems once they had left hospital and, again, those who did not receive help for these problems were more likely to have given up breastfeeding by two weeks (32%) than those who had received help (15%).
- 13% of bottle-feeding mothers experienced feeding problems in hospital and 12% experienced problems after they left. Compared with breastfeeding mothers who had problems, bottle-feeding mothers were more likely to cite difficulties relating to the health of the baby including vomiting and colic.
- The support of relatives and friends had a strong influence on the likelihood of breastfeeding mothers to continue breastfeeding beyond the first two weeks.
 Breastfeeding mothers who were themselves bottle fed were more likely to give up (24%) than those who had been breastfed themselves (15%). Similarly, breastfeeding mothers whose friends mostly bottle fed were more likely to have given up by two weeks (30%) than those whose friends mostly breastfeed (10%).
- 80% of mothers followed the advice related to avoiding cot death and placed their baby to sleep on his or her back.

Events around the time of the birth and certain practices in hospital may all affect whether a mother carries out her initial intention to breastfeed, and continues to do so. This chapter examines which factors are important in determining whether the mother initially breastfeeds and the success of breastfeeding in the early weeks. It also considers the reasons given by mothers who switched to bottle feeding and the problems experienced by breastfeeding mothers in the early weeks.

6.1 The birth and initiation of breastfeeding

The vast majority of mothers who plan to breastfeed carry out their intentions. However it is questioned whether the events surrounding labour and delivery influence the initiation of breastfeeding.

The type of delivery

If a mother underwent a caesarean delivery, there was no significant effect on the likelihood of her initiating breastfeeding.

Table 6.1

Table 6.1

Incidence of breastfeeding by type of delivery (United Kingdom 2000)

		Type of delivery								
	Normal	Forceps	Vacuum extraction	Caesarean	All mothers*					
Percentage who breastfed initially	68	76	74	71	69					
Base (All Stage 1 mothers)	6,281	396	800	1,985	9,492					
* Includes some mothers for	whom delivery	type unknown								

However, there was a difference in the incidence of breastfeeding according to the type of analgesic that the mothers received for the birth. Whilst 71% of mothers who received an epidural injection and 72% of those who received no analgesic went on to breastfeed, only 62% of mothers who received a general anaesthetic did so.

Table 6.2

Birthweight, special care and time before holding the baby

As in previous years, mothers were asked if their baby had been given phototherapy for jaundice or been admitted to special care at all. This might be because of low birth weight, prematurity or other complications. Only a small group of babies had received special care so it was not appropriate to split the group according to the length of time for which they received this care. Overall it didn't appear that babies who received special care were more or less likely to be breastfed than other babies. The baby's birth weight also did not seem to have an impact on whether mothers chose to breastfeed.

Table 6.3, 6.4

		Type of analgesia									
	Epidural	Injections e.g pethidine	Gas an	General aesthetic	Other treatment	Nothing	All mothers*				
Percentage who breastfed initially	71	66	69	62	85	72	69				
Base (All Stage 1 mothers)*	3,606	3,342	6,582	314	592	597	9,492				

Table 6.2 Incidence of breastfeeding by type of analgesic (United Kingdom, 2000)

Table 6.3

Incidence of breastfeeding by whether baby received special care (United Kingdom 2000)

	Baby admitted to special care	Baby given phototherapy	No special care	All babies
Percentage who breastfed initially	68	73	69	69
Base (All mothers at stage 1)*	847	529	8,240	9,492
* Babies may have been both in sp	ecial care and put u	nder a lamp		

Table 6.4

Incidence of breastfeeding by weight of baby (United Kingdom 2000)

	Weight of baby (grams)								
Les	s than 2500	2500-2999	3000-3499	3500 or more	All babies*				
Percentage who breastfed initially	71	66	68	71	69				
Base (All mothers at stage 1)	540	1,540	3,228	4,093	9,492				
* Includes babies whose birthweig	nt unknov	vn							

As in 1995, the length of time before mothers first held their baby had an impact on their likelihood to take up breastfeeding. Those who first held their baby within one hour of giving birth were more likely to start breastfeeding than those who did not hold their baby in this first hour. Analysis within countries shows that this difference was in evidence in Scotland and Northern Ireland, but not in England and Wales.

Table 6.5

Table 6.5

Incidence of breastfeeding by length of time before the mother held the baby by country (United Kingdom, 2000)

		United Kingdom		England & Wales		Scotland Ireland		A 11	
	<1 hour	1 hour +	<1 hour	1 hour +	<1 hour	1 hour +	<1 hour	1 hour +	All babies*
Percentage who breastfed initially	, 69	65	71	68	65	52	55	42	69
Base (All Stage 1 mothers)	8,722	735	5,007	414	2,035	224	1,639	137	9,492

6.2 The experience in hospital and the duration of breastfeeding

About one fifth of mothers who started breastfeeding had stopped within two weeks and 16% had stopped within one week (see Chapter 2). The mother's experience in hospital will have an influence on whether she continues to breastfeed because the steepest fall in duration occurs in the first week, and particularly in the first two days after birth.

The length of stay in hospital

Virtually all babies (97%) were delivered in hospital, as in previous surveys. Between 1995 and 2000 there continued to be a decline in the length of time that mothers stayed in hospital. Mothers who breastfed initially stayed in hospital for longer on average than those who didn't breastfeed at all; however their stay in hospital was shorter when compared to 1995. In 2000, over half (53%) of breastfeeding mothers left hospital within 48 hours compared with just under half (48%) in 1995. Breastfeeding mothers of first babies were more likely to stay in hospital for longer, although the proportion of these mothers who left within 48 hours rose from 32% in 1995 to 41% in 2000.

Table 6.6

Length of time breastfeeding mothers stayed in hospital by birth order (1990, 1995, 2000)*

		First births				r births		All	All babies	
	1990	1995	2000	1990	1995	2000	1990	1995	2000	
2 days or less	14	32	41	62	64	65	38	48	53	
3-5 days	60	51	46	26	26	28	43	39	37	
6-7 days	19	12	8	8	6	4	14	9	6	
8 or more days	7	6	5	4	3	2	5	5	4	
Base (Stage 1 breastfeeding mot who had hospital I		1,657	3,247	1,724	1,680	3,107	3,392	3,337	6,354	
* Note that 1990	and 1995 r	esults bas	ed on GB,	2000 bas	ed on UK					

Although mothers were spending less time in hospital, there was no change in the proportion of breastfeeding mothers who had stopped breastfeeding by the time they were discharged (12% in 1995 and 2000). This lack of change, despite the reduction in the time spent in hospital, reflects the fact that the majority of mothers who give up breastfeeding in the first week do so on the first or second day. Mothers of first babies who had initially tried to breastfeed were more likely to have given up breastfeeding by the time they left hospital (15%) than mothers of second or later babies (10%).

Table 6.7

Table 6.7

Proportion of mothers who stopped breastfeeding before leaving hospital by birth order (1990, 1995 GB, 2000 UK)*

	First births Later births			r births	All babies			
1990	1995	2000	1990	1995	2000	1990	1995	2000
88 72	85 74	84 74	88 77	92 80	89 78	88 74	88 77	88 76
16	12	11	11	12	11	14	12	11
12	15	15	12	9	10	12	12	12
1,670 s h)	1,657	3,247	1,724	1,680	3,107	3,392	3,337	6,354
	88 72 16 12	1990 1995 88 85 72 74 16 12 12 15 1,670 1,657	1990 1995 2000 88 85 84 72 74 74 16 12 11 12 15 15 1,670 1,657 3,247	1990 1995 2000 1990 88 85 84 88 72 74 74 77 16 12 11 11 12 15 15 12 1,670 1,657 3,247 1,724	1990 1995 2000 1990 1995 88 85 84 88 92 72 74 74 77 80 16 12 11 11 12 12 15 15 12 9 1,670 1,657 3,247 1,724 1,680	1990 1995 2000 1990 1995 2000 88 85 84 88 92 89 72 74 74 77 80 78 16 12 11 11 12 11 12 15 15 12 9 10	1990 1995 2000 1990 1995 2000 1990 88 85 84 88 92 89 88 72 74 74 77 80 78 74 16 12 11 11 12 11 14 12 15 15 12 9 10 12 1,670 1,657 3,247 1,724 1,680 3,107 3,392	1990 1995 2000 1990 1995 2000 1990 1995 88 85 84 88 92 89 88 88 72 74 74 77 80 78 74 77 16 12 11 11 12 11 14 12 12 15 15 12 9 10 12 12 1,670 1,657 3,247 1,724 1,680 3,107 3,392 3,337

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Reasons for giving up breastfeeding

Mothers who gave up breastfeeding were asked their reasons for doing so. The main reasons given by mothers who gave up within the first 2 weeks were that their baby did not suck or rejected the breast (31%), that they had insufficient milk (29%), and that they had painful breasts (27%).

Reasons given by mothers who gave up in the first week varied slightly from those given by mothers who gave up in the second week. Those who gave up in the first week were most likely to cite the fact that their baby would not suck or rejected the breast (35% compared with 19% of those giving up in the second week), whereas the reason most mentioned by those giving up in the second week was an insufficiency of milk (41% compared with 26% of those giving up in the first week). Other common reasons at this stage included painful breasts and the fact that breastfeeding took too long. The latter was more likely to be considered a problem in the second than in the first week (17% compared with 11%).

The importance of other reasons also differed according to whether mothers had given up in the first or second week after the birth. Mothers who gave up in the first few days were more likely to say that they did not like breastfeeding; those who continued breastfeeding for between one and two weeks were more likely to cite domestic reasons.

Table 6.8

	less than 1 week		1 week but less than 2 weeks	
-	1995	2000	1995	2000
Insufficient milk	32	26	44	41
Painful breasts or nipples	28	27	36	29
Baby would not suck / rejected breast	29	35	20	19
Breastfeeding took too long/ was tiring	11	11	16	1
Mother was ill	11	8	16	12
Did not like breastfeeding	10	8	5	4
Domestic reasons	6	4	10	8
Baby was ill	7	5	4	1(
Difficult to judge how much baby drunk	4	3	2	-
Baby could not be fed by others	3	1	1	-
Other reasons	14	14	16	16
Base (Stage 1 breastfeeding mothers who gave up within first 2 weeks)	480	1069	164	318

Table 6.8

Reasons given by mothers for stopping breastfeeding within one or two weeks (1995 GB, 2000 UK)*

* Note that 1995 data based on GB, 2000 data based on UK

There were also differences in reasons given for stopping breastfeeding in the first two weeks between first-time and more experienced mothers. The main reason given by firsttime mothers giving up breastfeeding in the first two weeks was that the baby would not suck or rejected the breast (38% of these mothers mentioned this, compared with 23% of more experienced mothers). For both groups of mothers this was especially an issue in the first week of the baby's life. However, by the second week, whereas only 6% of more experienced mothers gave up breastfeeding because of their baby rejecting the breast, this was still the cause of stopping breastfeeding for three in ten first-time mothers (30%).

Mothers of second or later babies were more likely to mention painful breasts or nipples as a reason for giving up in the first two weeks (31% compared with 24% first time mothers). They were also more likely to cite the fact that breastfeeding took a long time and was tiring (15%, 10% of first time mothers) and domestic reasons (10%, compared with less than 1% of first-time mothers), issues that could be caused or exacerbated by the presence of other children.

Table 6.9

Table 6.9

Reasons given by mothers for stopping breastfeeding within 1 or 2 weeks, first births vs. later births (United Kingdom 2000)

		Baby's a	ige when k	oreastfeedi	ng ceased	
	less thai	n 1 week		but less 2 weeks	Up to	2 weeks
	First births %	Later births %	First births %	Later births %	First births %	Later births %
Insufficient milk	26	26	45	34	30	28
Painful breasts or nipples	23	31	28	31	24	31
Baby would not suck / rejected breast	40	28	30	6	38	23
Breastfeeding took too long/ was tiring	9	14	16	17	10	15
Mother was ill	9	7	11	12	10	8
Did not like breastfeeding	9	6	2	6	7	6
Domestic reasons	*	8	0	19	*	10
Baby was ill	7	4	12	7	8	4
Difficult to judge how much baby drunk	4	2	1	3	3	2
Baby could not be fed by others	2	*	2	1	2	*
Mother had inverted nipples	2	2	-	-	2	2
Embarrassment	1	3	-	1	1	2
Returning to work	1	*	-	-	1	*
Other reasons	13	7	16	14	14	9
Base						
(Stage 1 breastfeeding mothers who gave up within first 2 weeks)	617	452	179	140	796	592

Delays in starting breastfeeding

Between 1995 and 2000 there was an increase in the proportion of mothers who began breastfeeding within one hour of giving birth. The proportion rose from 68% in 1995 to 72% in 2000.

Length of time before baby was first put to the breast (1990, 1995 Great Britain, 2000 United Kingdom)*

	1990 %	1995 %	2000 %
Immediately / within a few minutes	26	25	28
Within an hour	37	43	44
More than 1 hour, up to 4 hours later	18	17	14
More than 4 hours, up to 12 hours later	10	8	5
More than 12 hours later	10	8	7
Base			
(Stage 1 breast feeding mothers who had hospital birth)	3,395	3,337	6,354

* Note that 1990 and 1995 data based on GB, 2000 data based on UK

The duration of breastfeeding continued to show a relationship with the length of time before the baby is put to the breast. Delays in first feeds were associated with an increasing likelihood of stopping breastfeeding in the first two weeks. In 2000, 16% of mothers who breastfed immediately had given up by the end of the second week, compared with 26% of those who, for one reason or another, had not put their baby to the breast for more than an hour after birth.

However, although mothers were more likely to begin breastfeeding within one hour of giving birth in 2000 than in 1995, there was also an increase in the proportion of these mothers giving up breastfeeding within two weeks (19% in 2000 compared with 15% in 1995).

Table 6.11

Table 6.11

Proportion of mothers who had stopped breastfeeding within two weeks by the length of time taken to first put baby to breast. (1990, 1995 GB, 2000 UK)**

	1990	1995	2000	1990	1995	2000`
		ntage stop tfeeding w 2 weeks			Bases	
Immediately Within an hour More than 1, up to 4 hours later	12 18 25	14 16 26	16 21 24	843 1,196 593	804 1,381 564	1,790 2,796 862
More than 4 hours, up to 12 hours later More than 12 hours later	24 32	26 30	30 27	328 314	249 252	331 467
Stage 1 breastfeeding mothers who had hospital birth	19	19	21	3,395	3,337	6,354

*Includes some cases where the time until baby was put to breast was not known

** Note that 1990 and 1995 data based on GB, 2000 data based on UK

The prevalence of breastfeeding at 2 weeks did not show a statistically significant relationship with whether the baby was in special care, whether it had a low birthweight or whether there was a delay before the mother held her baby.

Contact between mother and baby in hospital

Babies kept by the mother's side at all times makes it easier for the mother to breastfeed on demand. The practice of placing some newborn babies in a nursery had continued to decline so that, by 2000, 79% of mothers had their baby with them continuously in hospital, compared to 74% in 1995 and 63% in 1990. A further 7% always fed their baby even though they were sometimes separated and a similar proportion were in special care most of the time. There was a further decrease in the proportion of babies who were sometimes fed by a nurse or midwife between 1995 and 2000, from 8% to 6%.

Table 6.12

Table 6.12

Contact between breastfeeding mothers and babies while in hospital (1990, 1995 GB, 2000 UK)*

	1990 %	1995 %	2000 %
Mother and baby together continuously	63	74	79
Baby away sometimes: Mother always fed baby	15	9	7
Nurses sometimes fed baby	16	8	6
Baby in incubator or special care most of the time (more than 1 day)	7	9	8
Base			
(Stage 1 breastfeeding mothers who had a			
hospital birth)	3,392	3,243	6,354

Giving bottles to breastfed babies

Previous surveys have showed a strong association between giving bottles of formula milk to breastfed babies in hospital and the likelihood of the mother stopping breastfeeding in the early weeks. Between 1995 and 2000 there was a fall in the proportion of breastfed babies who were given bottles in hospital, from 36% to 28%. This followed on from decreases from 1985 to 1990 and from 1990 to 2000.

Table 6.13, Figure 6.1

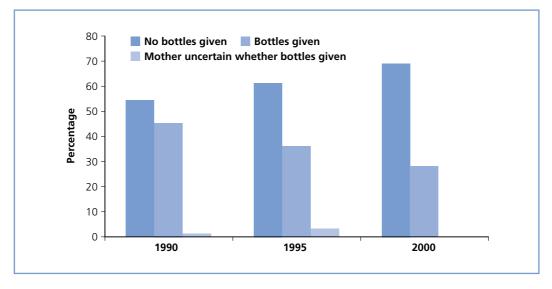
Frequency with which bottles of formula milk were given to breastfed babies in hospital (1990, 1995 GB, 2000 UK)*

	1: %	990	1 %	995	2000 %
No bottles given Bottles given once or twice only Bottles given during the night Bottles given at every feed Bottles given, other arrangements Bottles given, mother not sure how often Mother uncertain whether bottles given	54 23 6 9 5 2 1	45	61 20 4 7 5 - 3	36	69 15 3 7 28 3 1
Base (Stage 1 breastfeeding mothers who had hospital birth) * Note that 1990 and 1995 data based on G	<i>3,392</i> B. 2000 da	ata based	<i>3,243</i> on UK		6,354

Figure 6.1

Frequency with which bottles of formula milk were given to breastfed babies in hospital (1990, 1995 GB, 2000 UK).

Breast feeding mothers who had a hospital birth



Breastfeeding mothers whose babies were given bottles were still more likely to stop breastfeeding in the first two weeks than were other mothers. Two fifths (40%) of breastfeeding mothers whose babies had been given a bottle while in hospital had stopped breastfeeding at this stage compared with 13% of breastfeeding mothers whose babies had not been given a bottle. Three fifths of mothers (60%) whose babies had been given a bottle at most feeds while in hospital had given up by two weeks. However, this measurement might reflect the proportion of mothers who were already having difficulties breastfeeding rather than the use of formula milk having an effect on their behaviour.

Proportion of mothers who had stopped breastfeeding within two weeks by frequency with which bottles of milk had been given in hospital (1990, 1995 GB, 2000 UK)*

	1990	1995	2000	1990	1995	2000`	
Frequency of giving bottles of milk in hospital		ge who ha astfeeding 2 weeks	-		Bases		
No bottles given Bottles given occasionally or at night Bottle given at most feeds All babies who received a bottle while being breastfed	9 23 56 32	11 27 58 34	13 33 60 40	1,759 939 295 1,438	1,983 746 229 1,142	4,368 1,136 444 1,800	
All Stage 1 breastfed babies born in hospital** * Note that 1990 and 1995 data based o	20	20	21	3,392	2,243	6,354	

** Includes some babies for whom whether bottles given not known

6.3 **Problems feeding the baby and the role of health professionals**

In 2000, 87% of mothers of first babies were given help, usually by a midwife or a nurse, the first time that they breastfed their baby. Mothers of second or later babies were understandably much less likely to receive advice at this stage. Although being shown how to breastfeed did not significantly affect the chances of the mother continuing to breastfeed, 94% of mothers said that they found the advice helpful.

Three fifths (62%) of mothers of first babies who did not receive help (8% of mothers of first babies) would have liked to have done so and a similar proportion (8%) of mothers of second or later babies would have liked to receive advice.

Table 6.15

Proportion of breastfeeding mothers who received help or advice the first time they breastfed (United Kingdom 2000)

	Birth	order			
	First births %	Later births %	All babies %		
Received advice	87	48	67		
Did not receive advice	13	51	32		
Of which would have liked advice	8	8	8		
did not want advice	4	41	23		
Base					
(Stage 1 breast feeding mothers)	3,295	3,265	6,561		

Problems feeding the baby in hospital

While in hospital, 32% of breastfeeding mothers experienced problems feeding their baby, slightly fewer than in 1995, when 35% of breastfeeding mothers experienced problems. Not surprisingly, mothers of first babies were more likely to report problems (44%) than mothers of second or later babies (21%). As in previous surveys, the most common problems were that the baby would not suck or latch on to the breast (53% of mothers who experienced problems with breastfeeding) or that the mother had sore or cracked nipples (19% of mothers who experienced problems with breastfeeding). A further one in seven mothers who experienced problems (14%) mentioned that the baby appeared to be hungry or that they didn't have enough milk.

Table 6.16, 6.17

Table 6.16

Feeding problems experienced by breastfeeding mothers while in hospital (1990, 1995 GB, 2000 UK)*

		Firs	t births	Later births				All babies		
	1990	1995	2000	1990	1995	2000	1990	1995	2000	
	%	%	%	%	%	%	%	%	%	
Had problems	47	46	44	25	24	21	36	35	32	
Did not have proble	ems 53	54	56	75	76	79	64	65	67	
Base (Stage 1 breastfeeding moth who had hospital b		1,638	3,247	1,681	1,583	3,107	3,338	3,243	6,354	

Feeding problems experienced by breastfeeding mothers while in hospital or after leaving hospital, by birth order (United Kingdom 2000)

	Pro	blems in h	ospital	Problems a	after leav	ing hospital
	First birth	Later birth	All breastfed babies	First birth	Later birth	All breastfed babies
			Percentage	having prob	lem	
Baby would not suck/ not latching on	57	42	53	25	22	24
Mother had sore or cracked nipples	18	20	19	38	43	40
Baby unsatisfied/ insufficient milk	14	13	14	32	31	32
Baby was ill	7	12	9	1	*	1
(in special care or fed by tube)						
Baby falling asleep/ slow feeding/	9	8	9	13	10	12
not gaining weight						
Lack of support/ advice from midwife/	6	3	5	3	2	2
nurse/ hospital						
Mother too tired / ill	5	5	5	6	6	6
Mother found breastfeeding uncomfortable	2	2	2	3	2	2
Baby vomiting	1	3	2	3	4	3
Baby had colic/wind	1	*	1	6	8	7
Baby didn't like milk	*	*	*	*	1	1
Baby constipated	-	-	-	1	1	1
Other problems affecting mother	3	3	3	6	5	5
Other problems with baby	10	10	10	7	7	7
Base						
(Stage 1 breastfeeding mothers who had feeding problems)	1,413	636	2,049	1,091	836	1,927

One in eight mothers bottle-feeding in hospital (13%) said that they had experienced feeding problems. Compared with breastfeeding mothers, problems experienced by bottle-feeding mothers in hospital were more likely to be related to the health of the baby including baby being ill (20% compared with 9% of breastfeeding mothers reporting problems), baby vomiting (22% compared with 2%) and colic (4% compared with 1%). One in ten mothers with problems in hospital (11%) said that this because their baby wouldn't feed from a bottle.

Table 6.18

Feeding problems experienced by mothers while in hospital or after leaving hospital, by feeding method at the time (United Kingdom 2000)

	Problems in hospital		Problems	after leaving	g hospital	
Brea	astfed	Not Breastfed	All babies	Breasted	Not breastfed	All babies
Any problem Base: All mothers having hospital birth	32 2869	13 6353	Percentage 26 9222	e having pro 35 5557	blem 12 3588	26 9145
All mothers having hospital birth	2009	0555	3222	5557	3300	5145
Baby would not suck/ not latching on Mother had sore or cracked nipples	53 19	13 *	46 16	24 40	2	20 33
Baby unsatisfied/ insufficient milk Baby was ill (in special care or fed by tube)	14 9	4 20	12 10	32 1	32 1	32 1
Baby falling asleep/ slow feeding/ not gaining weight	9	12	9	12	10	11
Baby vomiting	2	22	5	3	22	7
Mother too tired / ill Lack of support/ advice from midwife/ nurse/ hospital	5 5	3 1	5 4	6 2	1 1	5 2
Baby wouldn't feed from bottle	1	11	3	1	1	1
Mother found breastfeeding uncomfortable	2	-	2	2	-	2
Baby didn't like milk	*	1	1	1	1	1
Baby had colic/wind	1	4	1	7	27	11
Baby constipated	-	-	-	1	9	2
Other problems affecting mother	3	2	3	5	1	4
Other problems with baby	10	21	12	7	15	8
Base (Stage 1 mothers who had feeding problems)	2,049	358	2426	1,927	414	2340

The majority of mothers who breastfed initially (89%) received help or advice for these problems and almost all mothers talked to either a midwife or a nurse. Although it is a small group, mothers of first babies who said they did not get help in hospital were significantly more likely to have stopped breastfeeding by two weeks (50%) than those who had received help (28%).

Table 6.19

Problems feeding the baby after leaving hospital

Among mothers who were still breastfeeding when they left hospital, 35% reported having problems breastfeeding in the early weeks. Again, mothers of first babies were more likely to experience problems (40%) than mothers of second or later babies (30%).

Table 6.20

Proportion of mothers who had stopped breastfeeding within two weeks by whether they received help with problems in hospital (United Kingdom 2000)

	First birth		Later births		All breastfed babies	
	Received help	Did not receive help	Received help	Did not receive help	Received help	Did not receive help
Percentage who had stopped breastfeeding within two weeks	28	50	31	41	29	47
Base (Stage 1 breastfeeding mothers having feeding problems in hospital)	1,276	126	547	80	1,820	205

Table 6.20

Feeding problems experienced by mothers after leaving hospital (1990, 1995 GB, 2000 UK)*

		Firs	t births	Later births			All breastfed babies		
	1990	1995	2000	1990	1995	2000	1990	1995	2000
	%	%	%	%	%	%	%	%	%
Had problems	39	40	40	30	30	30	34	35	35
Did not have probler	ns 61	60	60	70	70	69	66	65	64
Base (Stage 1 mothers breastfeeding when they left hospital)	1,377	1,407	2,761	1,480	1,464	2,797	2,857	2,878	5,558

By this stage, the problems most frequently mentioned by breastfeeding mothers were that the mother had sore nipples (40%) and that the baby appeared hungry (32%). In addition, one quarter of breastfeeding mothers (24%) still reported problems with the baby rejecting the breast or not latching on. About one tenth (12%) of mothers who had feeding problems continued to say that the baby was prone to falling asleep or was slow feeding.

As found with problems experienced by mothers in hospital, bottle-feeding mothers were more likely than breastfeeding mothers to find that problems after hospital related to the health of their baby; this included vomiting (22% compared with 3% of breastfeeding mothers having problems after hospital) and colic (27% compared with 7%). Like breastfeeding mothers, a third (32%) of bottle-feeding mothers had problems with baby remaining unsatisfied after feeds and one in ten (10%) had problems with baby falling asleep/feeding too slowly or gaining insufficient weight.

The vast majority of mothers (92%) received advice for these problems. Although it is a small group, mothers who were still breastfeeding when leaving hospital and did not get help for feeding problems after they had left hospital were significantly more likely to have stopped breastfeeding by two weeks (32%) than those who had received help (15%).

Table 6.21

Table 6.21

Proportion of mothers who had stopped breastfeeding within two weeks by whether they received help with problems after hospital (United Kingdom 2000)

	First birth		Later births		All babies	
	Received help	Did not receive help	Received help	Did not receive help	Received help	Did not receive help
Percentage who had stopped breastfeeding within two weeks	14	32	17	31	15	32
Base (Stage 1 breastfeeding mothers having feeding problems in hospital)	998	81	763	62	1,757	143

Overall, midwives and health visitors were the most common source of advice for all breastfeeding mothers: 74% of mothers who had received advice were helped by a nurse or midwife, and 51% by a health visitor. About one in four mothers (24%) were helped by a friend or relative, and around a fifth (18%) by their doctor or GP. A further one in seven (14%) had been helped by reading books, leaflets or magazines. The answers given by mothers of first and later babies were very similar, although first-time mothers were more likely to turn to friends or relatives for assistance.

Table 6.22

Table 6.22

	Birth	order	
	First births %	Later births %	All babies %
Doctor/ GP	18	19	18
Health visitor	49	53	51
Midwife/ nurse	74	73	74
Friend or relative	27	20	24
Books, leaflets or magazines	15	13	14
Voluntary agency counsellor	3	3	3
Other	3	3	3
Base	1,003	768	1,770
(Stage 1 mothers still breastfeeding when			
left hospital and received help for problems			
breastfeeding after leaving)			

Sources of advice for mothers experiencing breastfeeding problems after leaving hospital (United Kingdom 2000)

At the first stage of the survey, mothers were asked whether, during their pregnancy, they had been given any of the books covering pregnancy and the early years of life. These are '*The Pregnancy Book*' and '*Birth to Five*' (all of UK) and '*Ready Steady Baby*', '*Breastfeeding and Returning to Work*' and '*Breastfeeding – getting off to a good start*' (Scotland only).

Just over three-quarters (77%) of mothers in the United Kingdom said that they had received at least one of the books listed. Mothers of first babies were more likely to have received one of the books (93% compared with 63% of mothers of later babies) and mothers in England and Wales were less likely than those in other countries to have done so (76% in England and Wales, 83% in Northern Ireland and 90% in Scotland). Mothers in England and Wales and Northern Ireland were most likely to have received '*The Pregnancy Book*' (62% in England and Wales and 71% in Northern Ireland), whereas the most widespread book in Scotland was '*Ready Steady Baby*' (received by 76% of mothers).

Table 6.23

Table 6.23

Whether mothers had been given a copy of books on pregnancy and the early years by birth order and by country (2000)

	Birth order			Country			
	First births	later births	England & Wales	Scotland	Northern Ireland	United Kingdom	
The Pregnancy Book	71	50	62	24	71	60	
Birth to Five	70	28	50	13	51	47	
Ready Steady Baby (Scotland only)	7	4	*	76	*	5	
Breastfeeding and returning to work (Scotland only)	2	1	1	14	1	1	
Breastfeeding – getting off to a good start (Scotland only)	3	2	1	30	1	3	
One or more of all books listed	93	63	76	90	83	77	
None of books listed	7	37	24	10	17	23	
Base (All mothers at stage 1)	4,448	5,044	5,440	2,274	1,778	9,492	

Mothers were also specifically asked whether they had received help or advice from a voluntary organisation which helps new mothers, for example the National Childbirth Trust, La Leche League, Breastfeeding Network etc. This question was placed with other general questions about development checks and visits from health visitors, and so was not linked to the questions about feeding problems and advice received. Just under one tenth of mothers (8%) said they had received help or advice from a voluntary agency. First time mothers were more likely that others to have received help from a voluntary organisation, as were mothers in England and Wales.

Table 6.24

Whether mothers had received help or advice from a voluntary organisation by birth order and by country (2000)

	Birth order					
	First births	Later births	England & Wales	Scotland	Northern Ireland	United Kingdom
Received help or advice Had not received help or advice	10 89	5 94	8 91	5 95	4 95	8 91
Base (All mothers at stage 1)	4,448	5,044	5,440	2,274	1,778	9,492

Breastfeeding mothers who received such advice were more likely to continue breastfeeding: 90% were still breastfeeding at two weeks compared with 78% of other mothers. However, they were also more likely to be in non-manual social class groups (56% compared to 40% in the survey sample), and it is therefore difficult to identify the separate effect of receiving such advice from a predisposition to breastfeed or other factors related to duration of breastfeeding.

6.4 The influence of relatives and friends on the duration of breastfeeding

Chapter 5 showed that relatives and friends exert a strong influence on the mother's decision whether or not to breastfeed. Once a mother has begun to breastfeed, the support of relatives and friends continues to influence the duration of breastfeeding. Thus, breastfeeding mothers who were themselves entirely bottle fed were more likely to give up in the first two weeks (24%) than mothers who were breastfed themselves (15%). These differences continued to be evident among mothers who continued breastfeeding beyond the first fortnight: 13% of mothers who had themselves been bottle fed and 8% of mothers who had been breastfed gave up between two and four weeks. Consequently, mothers who had been breastfed were more likely still be to be breastfeeding at four weeks (77%) than those who had been bottle fed (63%).

Table 6.25

Similarly, breastfeeding mothers whose friends mostly bottle fed were more likely to have given up in the first two weeks (30%) than those whose friends mostly breastfed (10%). This influence was much reduced after the first fortnight.

Table 6.26

Duration of breastfeeding to four weeks by how mother was fed (United Kingdom 2000)

Baby's age when breastfeeding ceased	Breastfed entirely	Breast and bottle fed	Bottle fed entirely	Don't know	All mothers*
Less than 2 weeks	15	20	24	25	21
2 weeks, less than 4 weeks	8	13	13	12	12
Breastfed at 4 weeks	77	68	63	63	67
Base (Stage 1 mothers who breastfed initially)	1,589	1,377	3,016	528	6,561

* Includes some mothers for whom feeding method at birth not recorded

Table 6.26

Duration of breastfeeding to four weeks by how mother's friends fed their babies (United Kingdom 2000)

	Ho				
Baby's age when breastfeeding ceased	Breastfed entirely	Half breastfed, halfbottle fed	Bottle fed entirely	Don't know	Al babies*
Less than 2 weeks	10	21	30	29	21
2 weeks, less than 4 weeks	8	13	14	14	12
Breastfed at 4 weeks	81	66	56	57	67
Base (Stage 1 mothers who breastfed initially)	1,861	1,586	2,059	179	6,561

*Includes some cases where mother had no friends with babies

Overall, the combined influence of family and friends can be one of the strongest determinants not only of whether a mother breastfeeds at all, but also of her chances of continuing to do so beyond the first two weeks. In total, 32% of mothers who were bottle fed themselves and whose friends mostly bottle fed had given up breastfeeding in the first two weeks, compared with 21% of all mothers.

6.5 Placing of baby to sleep

In 2000, a question was added to assess whether mothers were following the cot death related advice and to place babies to sleep on their back. 80% of mothers followed this advice placed their baby on their back, 8% placed their baby on their side, 1% on their front and for a further 10% it varied.

Mothers from higher or intermediate NS-SEC groups, as defined by the mother's occupation, were more likely to place their baby on their back than mothers from lower occupations or who had never worked.

Table 6.27

Table 6.27

Placing of baby to sleep by mother's socio-economic group (NS-SEC) (United Kingdom 2000)

	Mother's NS-SEC							
	Higher occupations	Intermediate occupations	Lower occupations	Never worked	unclassified	All babies		
On baby's back On baby's front On baby's side Varies Not stated	86 1 6 7 *	85 2 6 7 *	79 1 9 12 *	68 2 12 17 1	73 3 10 14 1	80 1 8 10 *		
Base (All mothers at stage	e 1) 2,791	1,905	2,619	1,276	900	9,492		

First-time mothers were also slightly more likely than mothers of second or later babies to follow the advice given and place their baby on his or her back.

Table 6.28

Table 6.28

Placing of baby to sleep by birth order (United Kingdom 2000)

	Birth	order	
	First baby	Later baby	All babies
On baby's back	82	78	80
On baby's front	2	1	1
On baby's side	6	10	8
Varies	10	11	10
Not stated	1	*	*
Base (All mothers at stage 1)	4,447	5,044	9,492

7

Feeding after the early weeks

Summary

- One in six mothers (16%) had experienced problems feeding their baby between stages one and two, and one in eight (12%) between stages two and three.
- The problems experienced by bottle-feeding and breastfeeding mothers varied. Between the ages of about 4-10 weeks and 4-5 months, problems experienced by bottle-feeding mothers were mainly related to the baby (remaining unsatisfied after a feed, vomiting, illness or colic). Among breastfeeding mothers, however, problems tended to more centred on feeding techniques (baby refusing a bottle or painful breasts).
- The majority of mothers (82% at stage two, 69% at stage three) reporting feeding problems had been given help or advice. At both stages, this was most commonly received from health visitors (around eight in ten mothers with feeding problems receiving help from this source).
- Reasons for giving up breastfeeding varied with the duration of breastfeeding. In the early weeks, baby rejecting the breast and painful nipples were the common reasons for cessation. For mothers who continued for at least a week but gave up by 4 months, insufficient milk was the most important factor. In later months, returning to work was the major reason for mothers reducing breastfeeding.
- Nine in ten mothers (90%) who gave up breastfeeding within six weeks of birth would have liked to have breastfed for longer. This level fell among those who breastfed for longer, although even among those continuing to do so for at least six months, over a third (37%) would have liked to continue for longer.
- Most mothers who breastfed (88%) would breastfeed another baby. Compared with 1995, more mothers who breastfed for only a short period would be willing to try breastfeeding again (in 1995 56% who gave up within the first week said that they would breastfeed again compared with 62% of the equivalent subgroup of mothers in 2000).
- When the babies were around eight to nine months old, half (49%) of mothers were working, and in the majority of cases (68%) this was on a part-time basis. Mothers working part-time were more likely to continue breastfeeding while working, and 6% were still giving milk solely from the breast.
- Nearly all mothers (99%) had seen a health visitor by the time they completed the questionnaire when their baby was four to ten weeks old. By stage 2, most mothers (87%) were making regular visits to the child health clinic, although first-time mothers visited with a greater frequency than mothers of later babies.
- At Stage 2, a quarter (26%) of mothers said that they had experienced problems finding somewhere to feed their baby in public, this proportion being higher among breastfeeding mothers (39%) than bottle-feeding mothers (21%).

The previous chapters have looked at some of the characteristics of breast and bottle feeding mothers, at feeding problems they experienced in the early weeks and at sources of help and advice in dealing with these problems. This chapter is concerned with the circumstances of mothers beyond the initial weeks, looking at feeding problems experienced at the second and third stages of the survey (when babies were around 4-5 and 8-9 months old), reasons for giving up breastfeeding and mothers' contact with health professionals. We also explore the impact of mothers' working and childcare arrangements on infant feeding practices and mothers' experience of and attitudes towards feeding in public places.

7.1 Problems with feeding

Problems experienced with breast and infant formula feeding in the first few weeks have been reported in Chapter 6. At later stages of the survey, mothers were again asked about any problems with feeding and, if these were experienced, about who had given them help or advice.

By the second stage of the survey, at some point between babies being aged about four to ten weeks and four to five months, 16% of mothers said that they had experienced problems feeding their baby. Mothers who were breastfeeding at the time they competed the stage 2 questionnaire were more likely to have experienced feeding problems in this period: one in five (21%) compared with one in seven (14%) mothers who were not breastfeeding. In Table 7.1, the figures for breastfeeding mothers in 2000 have been split into sole breastfeeders and mixed breastfeeders (i.e. those giving non-breastmilk as well as breastmilk). Although there is a slight tendency for mixed feeders to report more problems, the difference is not significant.

By stage three, between babies being aged about four/five months and eight/nine months, just over one in eight mothers (12%) reported a feeding problem. As at earlier stages, mothers who were breastfeeding at stage three were more likely to have experienced a feeding problem than other mothers, although the difference was less marked (16% and 11% respectively).

The results are similar to those found in 1995, aside from a slight reduction in the proportion of bottle-feeding mothers who experienced feeding difficulties at Stage 2 from 16% to 14%.

Table 7.1

Table 7.1

Whether mothers experienced feeding problems at Stage 2 and Stage 3 by feeding method (Great Britain 1995, United Kingdom 2000)

	4-5 months		8-9 months		(S	Base (Stage 2)		Base (Stage 3)	
Р	1995** ercentage	2000 experient	1995** cing feeding	2000 g problem	 1995 s	2000	1995	2000	
All breastfeeding	19	21	17	16	1253	2114	648	960	
Breastmilk only†		20		15		1196		465	
Breast & non-breast milk†		22		17		998		495	
Non-breast milk only	16	14	12	11	3774	6073	4351	6289	
All mothers*	17	16	13	12	5017	8298	5017	7268	

* Base includes some mothers for whom feeding method not known

** Note that 1995 data is based on Great Britain

† Data not available for 1995

Mothers classified to higher socio-economic groups were more likely to report feeding problems compared with mothers in lower groups or who had never worked. Overall, a fifth (21%) of mothers in higher occupations reported difficulties compared with one in eight (13%) of mothers in lower occupations or who had never worked. It should be noted that this difference existed even after controlling for differences in breastfeeding rates between the occupational groups. When further analysed by feeding method, it can be seen that the socio-economic gradient exists within both bottle-feeding and breastfeeding mothers. The socio-economic differences for mothers giving breastmilk only are particularly marked, with higher occupation mothers in this group being more than twice as likely as women who had never worked to report feeding difficulties (26% compared to 12%).

Table 7.2

At stage two, first time mothers were as likely as other mothers to report feeding problems. At stage three, first time mothers were slightly more likely to have experienced feeding problems (13% compared with 11% of other mothers).

Table 7.3

Table 7.2

Mothers' experience of feeding problems when babies were about four months old (stage 2) by mother's socio-economic group (NS-SEC) and feeding method (United Kingdom 2000)

	Higher occupations Pe	Intermediate occupations 	Lower occupations xperienced feed	Never worked 	Unclassified
Breastmilk only	26	16	16	12	15
Breast and non-breast r	milk 24	20	20	21	17
Non-breast milk only	19	13	12	12	11
All Stage 2 mothers	21	15	13	13	12
Bases					
Breastmilk only	500	261	226	102	108
Breast and non-breast i	milk 526	200	137	66	70
Non-breast milk only	1508	1277	1919	803	565
All Stage 2 mothers*	2546	1740	2285	979	749

Table 7.3

Whether mothers experienced feeding problems when babies were about four months old (stage 2) and nine months old (stage 3), by birth order (United Kingdom, 2000)

	4-5 months				;	
	First births %	Later births %	All babies %	First births %	Later births %	All babies %
Had feeding problem	16	16	16	13	11	12
Base (All mothers)	3849	4450	8299	3358	3909	7267

At both stages, mothers who reported feeding problems were asked to describe them. Responses were collected in an open question and these were later coded. The responses are summarised in Table 7.4, by feeding method, for the two survey stages. Only responses which were given by more than 5% of the sample in any of the subgroups have been shown.

Difficulties encountered in the period between about four to ten weeks and four to five months were more likely to result from problems with milk feeding, as opposed to feeding solids. Among mothers of babies who were being bottle-fed at stage 2 of the survey, the most significant problem was that the baby appeared to remain unsatisfied after a feed; two-thirds (66%) of bottle-feeding mothers reporting difficulties gave this as a reason. Other problems reported by this subgroup included baby illness (16%) and vomiting (15%).

For breastfeeding mothers at Stage 2, the most significant problem was getting their child to feed from a bottle, with a third (31%) of breastfeeding mothers with problems giving this as a reason. Other problems mentioned by this subgroup include baby remaining hungry after a feed (15%) and painful nipples (12%).

By Stage 3, covering the period between four to five and eight to nine months, problems with feeding solids were more common, and the level of these problems were similar for both breastfeeding and non-breastfeeding mothers. Baby refusing solids, problems with appetite and accepting only certain types of food were mentioned respectively by 25%, 15% and 15% of mothers who reported feeding difficulties at the stage 3 survey. Baby refusing a bottle was still a significant problem for breastfeeding mothers at stage 3, with a quarter (24%) mentioning this as the cause of their difficulties.

Table 7.4

Table 7.4

Type of feeding problems experienced by mothers when babies were about four to five months old (stage 2) and eight to nine months old (stage 3), by feeding method (United Kingdom 2000)

	4-5 months			8-9 months			
	Breastfed* %	Not breastfed %	All babies %	Breastfed* %	Not breastfed %	All babies %	
Problems with baby:							
Baby still hungry/unsatisfied	15	66	16	5	1	2	
Baby vomiting	2	15	10	3	8	7	
Baby wouldn't take bottle	31	9	17	24	4	7	
Baby didn't like bottle milk	5	3	4	8	3	4	
Baby ill/ in hospital	8	16	13	5	9	8	
Baby had colic/ wind	4	10	8	1	1	1	
Baby not gaining weight	6	5	5	1	1	1	
Baby preferred 'finger foods'	-	-	-	3	5	5	
Difficult to wean onto solids	9	10	10	25	25	25	
Problems with appetite	-	-	-	17	14	15	
Only takes certain solids	*	4	3	13	16	15	
Teething	-	-	-	4	7	7	
Problems with mother:							
Painful nipples/ mastitis	12	3	6	5	*	1	
Too tired/ ill	6	1	3	1	-	*	
Base (All mothers reporting feeding problems)	451	851	1306	151	738	891	

Percentages do not add up to 100% as some mothers gave more than one answer

* Includes mothers who were breastfeeding either exclusively or in conjunction with other milk

7.2 Help or advice with feeding problems

Mothers who reported feeding difficulties were asked if anyone had given them help or advice with this. The majority of these mothers said that they had received such help - eight in ten (82%) at stage two, and seven in ten (69%) at stage three. These figures remain unchanged from 1995.

The sources of help or advice used by mothers were similar at both stages, with health visitors being the most common source of help. In the United Kingdom, around eight in ten mothers who received advice did so from the health visitor. Other sources of advice used by mothers were the general practitioner and friends or relatives, used by around one in three mothers seeking help at each stage.

At both stages, mothers in Northern Ireland seeking help were somewhat less likely than mothers in other countries to use the health visitor (71% at stage 2 and 75% at Stage 3), instead making greater use of their general practitioner (54% at Stage 2 and 49% at Stage 3).

Table 7.5

Table 7.5

Source of advice on feeding problems at Stage 2and Stage 3 by country (United Kingdom, 2000)

			4-!	5 months	8-9 months			
	England & Wales %	Scotland %	Northern Ireland %	United Kingdom %	-	Scotland %	Northern Ireland %	United Kingdom %
Health visitor	78	77	71	78	85	76	75	84
Doctor/ GP	33	33	54	34	28	39	49	30
Friends/ relatives	31	33	27	31	29	26	22	29
Books/ leaflets etc.	13	16	12	13	10	12	11	11
Midwife/ nurse	8	7	12	8	3	6	7	3
Vol. organisation	3	2	1	3	2	3	1	2
Other	5	5	6	5	6	4	7	6
Base (Mothers receiving ac on feeding problems,		264	173	1076	363	109	73	614
Percentages do not a	dd up to 1	00% as sor	ne mother	s gave mor	e than one	e answer		

Compared with 1995, the sources of advice used by mothers were broadly similar, aside from a slightly greater reliance on the health visitor at Stage 3 among mothers in 2000 (84% compared with 74% in 1995).

Table 7.6

	4-5 mont	hs	8-9 mont	hs
	1995 %	2000 %	1995 %	2000 %
Health visitor	76	78	74	84
Doctor/ GP	38	34	35	30
Friends/ relatives	30	31	27	29
Books/ leaflets etc.	12	13	12	11
Midwife/ nurse	9	8	-	3
Voluntary organisation	4	3	2	2
Other	2	5	7	6
Base				
(Mothers receiving advice on feeding problems)	705	1076	467	614

Source of advice on feeding problems at Stage 2 and Stage 3, United Kingdom, 1995 and 2000

Table 7.7 compares the sources of advice for breastfeeding and for bottle-feeding mothers. At stage 2, breastfeeding mothers were more likely than bottle feeders to seek advice from friends and relatives (37% compared with 28%), or to consult books or leaflets (19% compared with 9%). Bottle-feeders on the other hand were more likely than breastfeeding mothers to consult their general practitioner at stage 2 if they had a feeding problem (38% compared with 25%). At Stage 3, there were fewer differences between the sources of advice used by bottle-feeding and breastfeeding mothers, although breastfeeding mothers were still more likely to consult books and leaflets (19% compared with 9%).

Table 7.7

Table 7.7

	4-5 mo	onths	8-9 months		
	Breastfed %	Not breastfed %	Breastfed %	Not breastfed %	
Health visitor	80	77	83	84	
Doctor/ GP	25	38	26	31	
Friends/ relatives	37	28	31	29	
Books/ leaflets etc.	19	9	19	9	
Midwife/ nurse	6	9	-	4	
Voluntary organisation	7	1	10	1	
Other	4	6	10	5	
Base	364	709	107	504	
(Mothers receiving advice on feeding prob	blems)				

Source of advice on feeding problems at Stage 2 and Stage 3 by feeding method (United Kingdom, 2000)

The most helpful source of advice

At the third stage of the survey, when babies were eight or nine months old, all mothers were asked who or what had been the most helpful source of general advice on feeding since their baby was born. Health visitors were seen as the best source of advice by mothers, with six in ten mothers in the UK citing this as their most helpful source. Friends and relatives and books/leaflets were also important sources for mothers, with respectively a half (51%) and a third (32%) of UK mothers mentioning these as their most helpful source of advice.

Results were broadly similar by country. However, when the results are compared with 1995, there was a small rise in the proportion of mothers in each country mentioning books and leaflets as their most helpful source of advice.

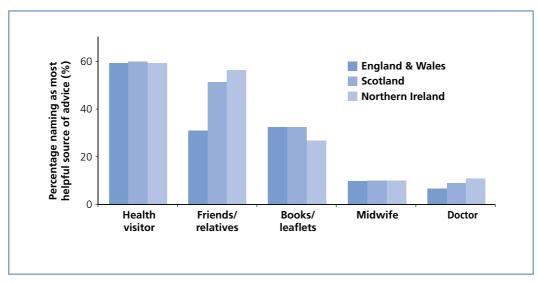
Table 7.8, Figure 7.1

Table 7.8

Most helpful source of advice on feeding since the birth of the baby, by country and survey year

	England & Wales		Scotland		Northern Ireland		United Kingdom		
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Health visitor	62	59	60	60	57	59	61	59	
Friends/ relatives	50	51	52	51	55	56	50	51	
Books/ leaflets etc.	27	32	26	32	22	27	27	32	
Midwife	9	10	7	10	8	10	9	10	
Doctor/ GP	9	7	9	9	9	11	9	7	
Vol.organisation	2	1	1	1	-	*	2	1	
TV/ radio	1	1	1	1	1	1	1	1	
Other	2	4	1	3	2	3	2	3	
Base									
(All Stage 3 mothers)	4300	4112	1747	1718	1399	1437	4848	7267	
Percentages do not add up to 100% as some mothers gave more than one answer									

Figure 7.1 Most helpful source of advice by country (2000) Base: All Stage 3 mothers



When the results are compared by birth order, it can be seen that first-time mothers place more reliance on friends and relatives (65% compared with 39% of mothers of subsequent babies) and books and leaflets (38% compared with 26%).

Table 7.9

Table 7.9

Most helpful source of advice on feeding since the birth of the baby, by birth order (United Kingdom 2000)

	First babies %	Later babies %	All babies %
Health visitor	60	58	59
Friends/ relatives	65	39	51
Books/ leaflets/ magazines	38	26	32
Midwife	12	9	10
Doctor/ GP	6	8	7
Nurse	1	1	1
Voluntary organisation	2	1	1
TV/ radio	1	1	1
Other	2	4	3
Base (All Stage 3 mothers)	3367	3900	7267
Percentages do not add up to 100% as	s some mothers gave mo	re than one answer	

7.3 Reasons for stopping breastfeeding

Chapter 2 showed that one in six women (16%) in the UK who breastfed initially had given up within one week and one in five (21%) had given up within two weeks. After the initial two weeks (which have been considered in detail in Chapter 6), the rate of giving up breastfeeding slowed: two-thirds (64%) of mothers who had started breastfeeding were still doing so when their babies were six weeks old and one in three (34%) continued for six months or more. This section looks at the reasons cited by women for giving up breastfeeding and whether mothers would have liked to have breastfeed for longer.

As shown in Table 7.10, the reasons for having given up varied with the duration of breastfeeding. In the early weeks reasons for giving up centred on problems with baby rejecting the breast (37% who gave up in the first week and 18% in the second), and painful nipples (27% and 28% of these mothers respectively). Mothers who tried breastfeeding for at least a week but gave up by the time their baby was 4 months were most likely to mention insufficient breastmilk as a reason for stopping. By 4 months, returning to work or college was beginning to become an important reason for stopping, especially so among mothers giving up between 4 and 6 months, with 39% stating this as a reason. From 6 months, the emergence of teeth was causing problems for some breastfeeding mothers (18%) and 19% of this subgroup of mothers said that it was simply the right time to stop.

Table 7.10

Table 7.10

	Baby's age when breastfeeding ceased:							
Le	ess than 1 week %	1 week less than 2 weeks %	2 weeks less than 6 weeks %		4 months less than 6 months %			
Baby rejected breast	37	18	13	10	12	15		
Painful breasts/ nipples	27	28	23	8	2	1		
Insufficient milk	26	40	53	52	30	21		
Took too long/ tiring	12	16	24	17	8	2		
Mother was ill	8	13	10	5	4	8		
Didn't like breastfeeding	7	3	1	2	*	1		
Baby was ill	6	12	6	4	2	-		
Domestic reasons	3	9	11	6	2			
Baby could not be fed by othe	rs 1	1	4	8	6	8		
Returned to work/ college	1	-	2	19	39	27		
Breastfed for as long as intend	led *	*	1	4	6	I.		
Baby teething/ biting*				*	5	18		
Time was right to stop*				-	8	19		
Base (Stage 3 mothers who stopped breastfeeding during survey period)	791	232	742	997	525	597		

Reasons given by mothers for stopping breastfeeding, by duration of breastfeeding (United Kingdom, 2000)

Percentages do not add up to 100% as some mothers gave more than one answer *code introduced at later waves of the survey

Whether mothers would have liked to breastfeed for longer

The reasons mothers gave for having stopped breastfeeding suggest that very few mothers gave up because they had planned to, particularly those stopping before four months. However, as a further measure, mothers who had given up breastfeeding were specifically asked whether they would have liked to have continued for longer. The vast majority of mothers who gave up within six weeks of birth – nine out of ten – would have liked to have breastfeed for longer. Although this proportion declined with length of breastfeeding, it was still the case for two-thirds of mothers stopping between six weeks and four months, and for half of those stopping at four to six months. Even among those continuing to feed for at least six months, over a third would have liked to continue for longer. These results confirm the implications of the previous table, that women who start to breastfeed are generally committed to this method of feeding but are then deterred by problems or other circumstances.

Table 7.11

Table 7.11

Whether mothers would have liked to have breastfed longer, by duration of breastfeeding (United Kingdom, 2000)

Baby's age when breastfeeding ceased	Would have liked to breastfeed longer	Base
	%	%
Less than 1 week	90	791
1 week, less than 2 weeks	93	232
2 weeks, less than 6 weeks	87	72
6 weeks, less than 4 months	69	997
4 months, less than 6 months	48	525
6 months or more	37	597

Base: Stage 3 breastfeeding mothers who stopped during the survey period

Whether mothers would breastfeed another baby

The mother's experience in breastfeeding her current baby was associated with her feeding intentions for future babies. Three in five mothers (62%) who had given up breastfeeding within the first week said that they would breastfeed another baby, with a quarter (27%) saying they would not. The comparable figures for mothers who had continued breastfeeding for at least six weeks were 97% who would breastfeed again, and just 1% who would not. So, mothers who had initially experienced difficulties with breastfeeding were, at this early stage, less inclined to repeat this experience if they had another child – although the majority would still do so.

Whether mothers would breastfeed another baby, by duration of breastfeeding (United kingdom, 2000)

	I	Duration of b	reastfeeding		
If I had another baby:	Less than 1 week %	1 week less than 2 weeks %	2 weeks less than 6 weeks %	6 weeks or more* %	All mothers** who breastfed %
 would breastfeed again would not breastfeed no answer given 	62 27 11	83 14 3	93 4 3	97 1 2	88 7 4
Base (Stage 3 mothers who breastfed initially)	791	232	742	3056	5020
* Includes mothers still breastfe ** Includes some mothers whe	5	breastfeeding	not recorded		

In Chapter 2, we saw that mothers who only fed their previous baby for a short period were more likely to breastfeed their subsequent baby in 2000, when compared to 1995. The results reported here suggest that mothers' future intentions, if they have another child, will follow the same trend. While overall there has been a small rise in the proportion of breastfeeding mothers who would repeat the experience, from 86% in 1995 to 88% in 2000, this increase is particularly marked amongst mothers who only breastfeed for a short period, as Table 7.13 shows.

Table 7.13, Figure 7.2

Table 7.13

Whether mothers would breastfeed another baby, by duration of breastfeeding and survey year

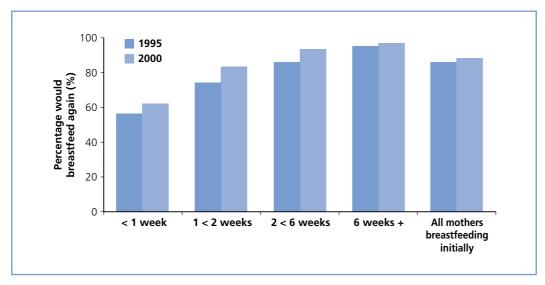
		Duration of b	reastfeeding		
Would breastfeed again	Less than 1 week %	1 week less than 2 weeks %	2 weeks less than 6 weeks %	6 weeks or more* %	All mothers** who breastfed %
1995 Survey Base (Stage 3 mothers who breastfed initially)	56 496	74 168	86 534	95 1961	86 3410
2000 Survey Base (Stage 3 mothers who breastfed initially)	62 791	83 <i>232</i>	93 <i>742</i>	97 <i>305</i> 6	88 5020

* Includes mothers still breastfeeding

** Includes some mothers where duration of breastfeeding not recorded

Figure 7.2

Whether mothers would breastfeed another baby, by duration of breastfeeding within survey year



Base: All Stage 3 mothers who breastfed initially

7.4 Employment status of mothers

As seen in the previous section, returning to work was one of the main reasons given by mothers who gave up breastfeeding from four months. Each stage of the Infant Feeding Survey included some questions about the mother's current employment status and the results are summarised here.

For the first stage of the survey, long-term trend data on mother's employment status is available. In 2000, when babies were about four to ten weeks old, almost half (46%) of all mothers were on paid maternity leave, a proportion which has been increasing steadily over the survey years (only 6% were on paid maternity leave at this stage in 1985). These shifts reflect changes in the sample composition of mothers over time as well as changes in maternity legislation, which has given more mothers access to paid maternity leave.

Mothers' working status when the babies were between 4 and 10 weeks old (1985, 1990, and 1995 Great Britain, and 2000 United Kingdom)

		Great Britain		United Kingdon
	1985 %	1990 %	1995 %	2000 %
Working	5	8	7	5
On maternity leave – paid	6	21	34	46
– unpaid	6	5	5	4
Not working	83	66	54	45
Base (All Stage 1 mothers)	5223	5413	5017	9492

For all stages, trend data are available for the last two survey years based on mothers in the United Kingdom. The significant rise between 1995 and 2000 in the proportion of mothers on maternity leave at stage 1 has already been noted. At Stage 2, there continues to be a significant rise between the survey years in the instance of mothers on maternity leave as opposed to non-working (22% in 2000 compared with 16% in 1995). By Stage 3, around half (49%) of mothers in 2000 were working, a small rise of 6 percentage points since 1995. The majority of the remainder were not working at all (48%), with only a negligible proportion (2%) still on maternity leave.

Table 7.15

Table 7.15

Mothers' working status at stages 1, 2 and 3, by survey year (United Kingdom)

	1995	2000
-	%	%
Stage 1 (4-10 weeks)		
Working	7	5
On maternity leave – paid	35	46
– unpaid	5	4
Not working	53	45
Base (All Stage 1 mothers)	5181	9492
Stage 2 (4-5 months)		
Working	28	27
On maternity leave – paid	4	9
– unpaid	12	13
Not working	56	50
Base (All Stage 2 mothers)	5181	8299
Stage 3 (8-9 months)		
Working	43	49
On maternity leave (paid or unpaid)	2	2
Not working	55	48
Base (All Stage 3 mothers)	5181	7267

In 2000, for the first time, mothers were asked in more detail about their working arrangements with a view to investigating whether there was a link between working patterns and how their baby was fed.

At Stage 3, the majority of working mothers were doing so part-time (up to 30 hours a week). About one in six (18%) were working less than 15 hours, with half (50%) working between 15 and 30 hours. Working mothers in Northern Ireland were more likely than working mothers in other countries to be doing so full-time (48% working 31 or more hours compared with 27% in England and Wales and 30% in Scotland). Mothers of first as opposed to later babies were also more likely to work full-time.

Table 7.16

	Country			Birth		
	England & Wales %	Scotland %	Northern Ireland %	First baby %	Later baby %	All mothers %
No. hours worked/week						
Under 15	20	13	8	14	23	18
15-30	50	54	40	51	48	50
31+	27	30	48	31	25	28
Varies	2	2	2	2	3	2
Base (Stage 3 mothers at work)	1976	943	762	1880	1667	3547

Table 7.16

Number of hours worked per week by country and birth order (United Kingdom 2000)

Mothers were also asked about their childcare arrangements. Informal, unpaid childcare was the most commonly used form of childcare, with nearly half (46%) of mothers in the United Kingdom relying on the baby's grandparent(s) and a third (34%) using their partner. A childminder or nanny was used in one in five (19%) of cases where mothers were working and 15% used a non-workplace creche or nursery.

Compared with other countries, working mothers in Scotland made more use of the child's grandparents for childcare (54%) while working mothers in Northern Ireland were much less likely to use a husband or partner (19%), placing more reliance instead on childminders or nannies (26%).

	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
Grandparent(s)	46	54	45	46
Husband or partner	35	33	19	34
Childminder/nanny	19	17	26	19
Creche or nursery (not workplace)	15	13	10	15
Another relative	8	11	12	9
Workplace creche or nursery	4	4	2	4
Friend	3	5	4	4
Other	1	*	-	1
Do not use childcare	4	4	3	4
Base (Mothers working at Stage 3) 1976	943	762	3547
Percentages do not add up to 100	% as some moth	ners gave more that	n one answer	

Childcare used by mothers working at Stage 3 by country (United Kingdom, 2000)

There was some variation in mothers' feeding behaviour by number of hours worked. Mothers working less than 15 hours were more likely than other working mothers to manage to provide milk solely from the breast (6% compared with 2% of those working full-time). Mothers working less than 15 hours were also twice as likely as mothers working full-time to manage to breastfeed at all (17% compared to 9%).

Table 7.18

Table 7.18

Milk feeding method at Stage 3 by mother's working hours (United Kingdom, 2000)

	Jnder 15 hours %	15-30 hours %	31+ hours %	Hours vary %	All working mothers* %	All non- working mothers %
Breastmilk only	6	4	2	6	4	9
Breastmilk and other milk No breastmilk given	11 83	7 89	7 90	3 92	7 89	6 85
Base (Mothers working at Stage 3	3) 651	1763	1010	73	3547	3629
Base includes some working	mothers for	whom hours	not stated			

There was very little difference between the feeding behaviours of mothers using different forms of childcare, although mothers using paid childcare (nursery/creche or childminder/nanny) were slightly more likely to give their baby mixed milk feeds (around one in ten of each group doing this) than mothers using other forms of childcare.

	Grand- parents	Husband/ partner	Child- minder/ nanny	Creche nursery	Other working mothers*	Do not use childcare
	%	%	%	%	%	%
Breastmilk only	3	5	2	3	3	6
Breastmilk and other milk	6	7	11	10	4	7
No breastmilk given	90	88	87	87	93	88
Base						
(Mothers working at Stage 3,	1647	1192	673	643	441	128

Milk feeding method at Stage 3 by mother's childcare arrangements (United Kingdom, 2000)

Mothers who were working at Stage 3 (when their babies were about eight or nine months old) were asked how their baby was provided with milk while they were at work. Just over half of this small subgroup (55%) gave their baby formula milk, while one in eight (12%) gave expressed breastmilk. The majority of the remainder (32%) opted to not give their baby any milk while they were at work. Mothers working part-time were less likely than full-time mothers to give formula milk (48% compared to 72%), instead being more likely to omit milk feeds altogether while at work (35% compared to 21%).

Table 7.20

Table 7.20

	Working	All workin	
- (1	Part-time up to 30 hours) %	Full-time (31+ hours) %	All workin mothers wh breastfeed %
Baby has formula milk	48	72	5
Baby has cows' milk	4	2	
Baby has other milk (unspecified)	5	1	
Baby not fed milk while mother at work	35	21	3
Baby has expressed breastmilk	12	13	1
Baby taken to work to breastfeed	3	2	
Mother breastfeeds baby at lunchtime	2	2	
Other arrangement	3	1	
Base (Working mothers breastfeeding at st	tage 3) 248	88	34

How baby was usually provided with milk while the mother was working, at stage 3 (United Kingdom, 2000)

Mothers who were working at Stage 3 were asked specifically whether their return to work had affected the way they fed their baby. Overall one in six (16%) said that this was the case. Working mothers in Scotland were slightly more likely than mothers in other

countries to have found this (19% compared with 16% in England and Wales and 13% in Northern Ireland).

There was also a greater propensity for feeding practices to be affected by work among mothers working full as opposed to part-time, and among mother in higher occupations, as shown in Table 7.21.

Table 7.21

Table 7.21

Whether return to work has affected the way mothers feed their babies by working hours and mother's socio-economic group (NS-SEC) (United Kingdom 2000)

	Proportion saying baby's feeding affected	Base
Base: Mothers working at Stage 3	%	%
Part-time (up to 30 hours) Full-time (31+ hours)	13 24	2415 1010
Higher occupations Intermediate occupations Lower occupations* Never worked Unclassified	25 10 7 9 13	1577 871 791 108 200
All working mothers* ** Base includes some mothers for whom working	16	3547

Mothers who said their baby's feeding had been affected by work were asked in what ways. Answers were collected as an open response and later coded. The responses given by mothers are provided in Table 7.22. In the large majority of cases (71%), the reason was linked to cutting down or cessation of breastfeeding, and this confirms the findings reported in section 7.3 which also showed how working was a major reason for mothers having to give up this method of feeding. Other changes mentioned by smaller proportions were having less time to prepare home-made solid food (10%) and changing baby's feeding routine (10%).

Table 7.22

	ç
Stopped or cut down breastfeeding	7
Less time to prepare home-made foods	1
Change to baby's feeding routine	1
Less control over baby's diet	
Ensure baby weaned onto solids before returned to work	
Other	

Table 7.22 How return to work has affected feeding of baby (United Kingdom 2000)

7.5 Contact with health professionals

As part of the stage one questionnaire, mothers were asked whether a health visitor had been to see them since their baby was born and, if so, how old the baby was at the first visit. Nearly all mothers (99%) had seen a health visitor by the time they completed the questionnaire when their baby was four to ten weeks old. Their babies were, on average, 12 days old at the time of the first visit, with three-quarters of all first visits occurring when the baby was between six and fifteen days old. Results on this measure were similar across the three countries.

Table 7.23

	England & Wales %	Scotland %	Northern Ireland %	United Kingdom %
Up to 5 days old 6-10 days	6 35	7 36	9 35	6 35
11-15 days	41	45	40	41
16-20 days	8	5	7	8
21+ days	7	4	5	7
Mean age of baby (days)	12.2	11.3	11.6	12.1
Base (Babies who had been visited by Stage 1)	5368	2247	1761	9376

Table 7.23

Age of baby when health visitor first visited mother and baby, by country (2000)

Nearly half (47%) of mothers said that their baby had had a development check-up by stage one of the survey. However, it should be noted that the age of babies at Stage 1 varied from 3 to 18 weeks (see Table 2.25), and whether mothers had received developmental check-ups varied considerably by their baby's age at the time of completing the stage 1 survey. For example, only a fifth (20%) of mothers with babies aged less than 6 weeks at Stage 1 had received such a check-up, rising to a half (47%) of mothers with babies aged 6 up to 8 weeks, and nearly all (82%) of mothers with babies aged 8 weeks or more at Stage 1.

In the United Kingdom, around half of all check-ups (56%) took place at the general practitioner's, with a further quarter (24%) taking place at a child health clinic or hospital. The remaining one-fifth (19%) took place at the family home. Compared with other mothers, mothers in Northern Ireland were more likely to have home-based checks, and less likely to have checks based at the doctor's surgery. Compared with 1995, more mothers are now having home visits (in the UK 19% compared to 8% in 1995).

Location of developmental check-up by country (2000)

	England & Wales		Scotland		Northern Ireland		United Kingdom	
	1995	2000	1995	2000	1995	2000	1995	2000
	%	%	%	%	%	%	%	%
Child health clinic/ hosp	oital 30	23	35	30	31	24	31	24
Family doctor/ GP	62	57	61	60	41	42	61	56
At home	8	19	4	10	27	34	8	19
Base (Stage 1 mothers who had had developmenta check-up)	l 2910	2431	1644	1345	1024	1265	3393	4473

At stage two of the survey, when babies were four or five months old, mothers were asked if they took their baby to a child health clinic or to their general practitioner for advice or regular check-ups. Almost nine out of ten (87%) said they took their baby to the child health clinic, and a third (33%) took their baby to their general practitioner, with 91% saying they took their baby to at least one of the two for advice or check-ups.

Mothers in Northern Ireland were less likely to go to a child health clinic (74%) and more likely to go to their general practitioner (43%) than mothers in England and Wales or Scotland. Results are similar for the two survey years.

Table 7.25

Table 7.25

Whether mother took baby to child health clinic or general practitioner for advice or regular check-ups, by country and survey year (stage 2)

	England & Wales		Scotland		Northern Ireland		United Kingdom	
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
Took baby to child health clinic	87	88	87	88	71	74	86	87
Took baby to family doctor/GP	36	33	35	29	45	43	36	33
Base (Stage 2 mothers)	4589	4729	1861	1953	1473	1618	5181	8299

Most mothers in the United Kingdom took their baby to the child health clinic either about once a fortnight (34%) or about once a month (45%). As well as being less likely to visit a child health clinic, mothers in Northern Ireland also tended to visit less frequently. A fifth (22%) visited with a frequency of at least fortnightly compared with nearly half (45%) in England and Wales.

Visits to the general practitioner for those who made them were a much less routine affair, with half (51%) making visits less than once a month, although mothers in Northern

Ireland making visits did so with a greater frequency (46% visiting monthly compared with 31% and 37% of the equivalent subgroups in Scotland and England and Wales).

Table 7.26

Table 7.26

How often mother took baby to child health clinic or general practitioner for advice or regular check-ups at Stage 2 by country (2000)

	England & Wales	Scotland	Northern Ireland	United Kingdom
_	%	%	%	%
Frequency of attending child health clinic				
Once a week	10	6	5	9
Once a fortnight	35	28	17	34
Once a month	44	48	54	45
Less than once a month	11	17	23	12
Base: (Stage 2 mothers who attended child health clinic)	4146	1713	1193	7214
Frequency of visiting GP				
Once a week	2	1	1	2
Once a fortnight	7	7	5	7
Once a month	37	31	46	38
Less than once a month	51	57	45	51
Base:				
(Stage 2 mothers who visited GP)	1541	576	694	2734

There was no change from 1995 in the frequency of attendance at child health clinics or at the general practitioners. However, within the 2000 data, there was a difference in the frequency of attendance at child health clinics by birth order. Although nearly all mothers of both first (91%) and later births (84%) took their child to these clinics, mothers of first babies who made such visits did so with a much greater frequency. Over half (53%) of first-time mothers took their babies at least fortnightly compared with a third (34%) of mothers with later babies.

Mothers of first and later babies were equally likely to make GP visits (32% and 33% respectively) and there was relatively little difference in the frequency of visits made by these mothers.

How often mother took baby to child health clinic or general practitioner for advice or regular check-ups at Stage 2 by survey year and birth order (United Kingdom)

	4005	2000					
	1995 – All babies	All babies	First baby	Later baby			
-	%	%	%	%			
Frequency of attending							
child health clinic							
Once a week	7	9	13	6			
Once a fortnight	33	34	40	28			
Once a month	47	45	39	50			
Less than once a month	13	12	8	15			
Base:							
Stage 2 mothers who attended							
child health clinic	4456	7214	3485	3729			
Frequency of visiting GP							
Once a week	2	2	2	1			
Once a fortnight	9	7	7	6			
Once a month	39		40	36			
Less than once a month	50	50	48	53			
Less than once a month	50	JI	40				
Base:	1841	2734	1246	1488			
Stage 2 mothers who visited G	D						

7.6 Feeding in public places

At the second stage of the survey, mothers were asked a number of questions about feeding their baby in public places.

The longer-term results would indicate that there has been a small reduction in the number of women reporting such problems over the last decade (from 30% in 1990 to 26% in 2000). However, a smaller proportion of women in 2000 actually attempted to feed outside the home in 2000 compared with 1990 (72% compared with 79%). Thus, of those who had made an attempt to feed in public, a similar proportion (36% in 2000, 38% in 1990) said that they had encountered problems.

The pattern of results for those breastfeeding and bottle-feeding at Stage 2 is very different. In 2000, a third of bottle-feeding mothers (35%) had never attempted to feed their baby outside the home compared with only 8% of breastfeeding mothers. Of those mothers who had made an attempt, breastfeeding mothers were significantly more likely to have encountered problems (43% compared with 32% of mothers attempting to bottle-feed in public). This equates to 39% and 21% respectively of all breastfeeding and bottle-feeding mothers.

Whether mothers ever had any problems finding somewhere to feed their babies in public places, by method of feeding at stage 2 (1990 and 1995 Great Britain and 2000 United Kingdom)

Breastfeeders			Bottle feeders			All mothers		
GB 1990 %	GB 1995 %	UK 2000 %	GB 1990 %	GB 1995 %	UK 2000 %	GB 1990 %	GB 1995 %	UK 2000* %
44	40	39	25	24	21	30	28	26
s 39	49	52	51	50	43	49	50	46
17	11	8	24	26	35	22	22	28
1764	1228	2195	3649	3737	6072	5413	5017	8299
53	45	43	33	32	32	38	36	36
1464 d	1093	2009	2773	2766	3698	4276	3913	5732
	1990 % 44 5 39 17 1764 53 1464	GB GB 1995 1990 1995 % 44 40 % 39 49 11 1764 1228 53 45 1464 1093 1093 1093	GB GB INK 1990 1995 2000 % % % 44 40 39 53 49 52 1764 1228 2195 53 45 43 1464 1093 2009	GB GB 1995 2000 GB 1990 1995 2000 1990 1990 % % % % % 44 40 39 25 51 39 49 52 51 17 17 11 8 24 1764 1228 2195 3649 53 45 43 33 1464 1093 2009 2773 <td>GB GB 1995 2000 GB 1990 1995 2000 GB 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990<td>GB GB 1995 2000 GB 1990 1995 2000 % % % % % % % 2000 % % % % % % % % 44 40 39 25 24 21 53 49 52 51 50 43 17 11 8 24 26 35 1764 1228 2195 3649 3737 6072 53 45 43 33 32 32 1464 1093 2009 2773 2766 3698</td><td>GB GB UK GB GB GB 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 % % % GB 1995 2000 % GB 1990 %</td><td>GB GB 1995 2000 GB 1990 1995 2000 1990 1995 2000 M GB 1995 2000 M GB 1995 2000 M GB 1995 2000 M 1995 2000 M GB 1990 1995 2000 M<</td></td>	GB GB 1995 2000 GB 1990 1995 2000 GB 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1995 1995 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 <td>GB GB 1995 2000 GB 1990 1995 2000 % % % % % % % 2000 % % % % % % % % 44 40 39 25 24 21 53 49 52 51 50 43 17 11 8 24 26 35 1764 1228 2195 3649 3737 6072 53 45 43 33 32 32 1464 1093 2009 2773 2766 3698</td> <td>GB GB UK GB GB GB 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 % % % GB 1995 2000 % GB 1990 %</td> <td>GB GB 1995 2000 GB 1990 1995 2000 1990 1995 2000 M GB 1995 2000 M GB 1995 2000 M GB 1995 2000 M 1995 2000 M GB 1990 1995 2000 M<</td>	GB GB 1995 2000 GB 1990 1995 2000 % % % % % % % 2000 % % % % % % % % 44 40 39 25 24 21 53 49 52 51 50 43 17 11 8 24 26 35 1764 1228 2195 3649 3737 6072 53 45 43 33 32 32 1464 1093 2009 2773 2766 3698	GB GB UK GB GB GB 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 1995 2000 1990 % % % GB 1995 2000 % GB 1990 %	GB GB 1995 2000 GB 1990 1995 2000 1990 1995 2000 M GB 1995 2000 M GB 1995 2000 M GB 1995 2000 M 1995 2000 M GB 1990 1995 2000 M<

* Bases for all mothers include some cases where feeding method not recorded

Mothers who had ever breastfed were asked specifically if they had ever done so in a public place, and if so, where they preferred to go. Nine in ten mothers who were still breastfeeding at stage 2 said that they had breastfed in a public place. When asked about where they preferred to do this, half of this subgroup preferred a specially designated mother and baby room. The remainder were split approximately equally between those who preferred to breastfeed without going to a special place and those with no preference.

Although breastfeeding mothers from all socio-economic groups were equally likely to prefer a mother and baby room to breastfeed, mothers classified to higher occupations were more likely than mothers in lower occupations or who had never worked to prefer to breastfeed without going to a special place (22% compared to 14% in lower occupations and 9% never worked). Mothers breastfeeding at stage 2 who had never worked were much more likely than other mothers to have not fed in public at all with a quarter (27%) of this subgroup saying that they had never fed in public.

Where mothers prefer to feed when in a public place by mother's socio-economic group (NS-SEC (United Kingdom 2000)

	Higher occupations 	Intermediate occupations	Lower occupations		Unclassified working	All mothers
	%	%	%	%	%	%
Have breastfed in public	92	91	89	73	90	90
Prefer mother & baby ro	oom 45	45	45	41	47	45
Prefer to breastfeed wit going to special place	hout 22	20	14	9	16	19
No preference	25	25	30	22	26	26
Never breastfed in public place	8	9	11	27	9	10
Base (Mothers breastfeeding at Stage 2)	1026	461	362	167	177	2193

Finally, all mothers at stage 2 were asked where they thought it was important to have facilities for feeding babies, and three places were specifically prompted in the question - shops/ shopping centres, restaurants, and public toilets. Nearly all mothers (94%) said they thought shops and shopping centres should provide facilities, four-fifths (79%) mentioned restaurants, and a third (34%) thought there should be feeding facilities in public toilets. A small number of mothers also spontaneously suggested travel terminals and places of entertainment such as parks and museums. There were no substantial differences by either feeding method or survey year.

Table 7.30

Table 7.30

Places that mothers thought should provide facilities for feeding babies, by feeding method and survey year (Great Britain 1995, United Kingdom 2000)*

1995 %	2000	1995			
	%	%	2000 %	1995 %	2000 %
98	95	96	93	97	94
78	77	81	80	80	79
41	37	31	33	33	34
6	2	2	*	3	1
7	4	4	1	5	2
7	7	4	3	4	4
1224	2195	3733	6073	4957	8299
	78 41 6 7 7	78 77 41 37 6 2 7 4 7 4 7 7	78 77 81 41 37 31 6 2 2 7 4 4 7 7 4	78 77 81 80 41 37 31 33 6 2 2 * 7 4 4 1 7 7 4 3	78 77 81 80 80 41 37 31 33 33 6 2 2 * 3 7 4 4 1 5 7 7 4 3 4

* Note that 1995 data is based on Great Britain

8

Additional drinks and supplementary vitamins

Summary

- Just over half (55%) of mothers were giving their baby drinks other than milk at four to ten weeks. Mothers who were bottle feeding were more likely to have introduced other drinks (76%) than women who were breastfeeding (27%).
- Water was the most commonly mentioned additional drink at all three stages. Compared with 1995 results, there has been a marked shift away from sweetened drinks to unsweetened drinks, and from all other types of drinks to unsweetened water.
- Mothers from higher socio-economic groups were less likely than mothers in lower groups or who had never worked to be giving additional drinks at both the four to ten weeks and four to five months stages of the survey.
- The majority of mothers (85%) had introduced their baby to a cup by the final stage of survey when their babies were aged eight to nine months. Compared with 1995, mothers were introducing a cup earlier in 2000.
- At four to ten weeks, just 4% of babies received additional vitamins, 5% at four to five months and 10% at eight to nine months. These figures continue a longer-term trend in the declining use of this practice over the survey years. Babies of low birthweight, and babies born to mothers of Black or Asian parents were more likely than average to be receiving vitamins.
- A third (35%) of breastfeeding mothers were taking supplementary vitamins and/ or iron tablets at stage one, falling to just over a quarter at the four and nine month stages (27% and 26% respectively). At all three stages of the survey, breastfeeding mothers in Northern Ireland were more likely than mothers in other countries to have taken supplementary vitamins.

This chapter covers the provision of drinks to babies at all three stages of the survey, how many mothers are giving drinks and the types of drinks given. We also investigate the practice of giving supplementary vitamins to babies, as well as the level of women who take supplementary vitamins themselves.

8.1 Additional drinks

The Department of Health recommends that there is no need to give drinks other than breast milk or infant formula for the first four to six months of life. The Committee On Medical Aspects of Food Policy (COMA) Report on Weaning and the Weaning Diet¹ recommends that cooled boiled water to satisfy thirst between feeds or diluted fruit juices at meal times are suitable when the older baby is being weaned onto solid foods.

8.1.1 **Proportion of mothers giving additional drinks**

At each stage of the survey, mothers were asked whether they were giving their baby any drinks additional to milk – including water or other drinks. In the United Kingdom, just over half (55%) of mothers were giving their baby drinks other than milk at the first stage of the survey, when babies were about 4-10 weeks old.

Mothers who were bottle-feeding their babies at Stage 1 were much more likely than mothers who were breastfeeding at this stage to have introduced additional drinks (76% compared with 27%). Compared with 1995, results have remained broadly similar, although the differential between breast and bottle-feeding mothers has widened somewhat since 1995.

Table 8.1

Та	b	8.	1

Additional drinks given to babies at stage 1, by method of feeding (Great Britain 1995*, United Kingdom 2000)

	Breastfeeding at Stage 1		Bottle-feeding	g at Stage 1	All Stage 1 mothers		
	GB 1995* %	UK 2000 %	GB 1995* %	UK 2000 %	UK 1995 %	UK 2000 %	
Drinks given	30	27	69	76	54	55	
Base	1954	4004	3063	5459	5181	9492	
* 1995 data o	n bottle and brea	astfeeding mot	hers only availab	le at GB level			

Table 8.2 shows the proportion of mothers giving additional drinks at Stages 1 and 2 of the survey by country. At Stage 1 the proportion of babies receiving drinks other than milk was notably higher in Northern Ireland (70%) compared with other countries. Additionally this figure has risen slightly from 1995 (64%), while rates in other countries have remained stable.

By Stage 2, the large majority of mothers were giving additional drinks - around threequarters (74%) in the United Kingdom, slightly higher in Northern Ireland (78%). Overall at the United Kingdom level, there has been a slight reduction in the proportion giving extra drinks at Stage 2 (from 77% to 74%).

Table 8.2

Table 8.2

Proportions of mothers giving drinks other than milk at stages 1 and 2, by country (1995 and 2000 United Kingdom)

		England & Wales		Scotland		orthern Ireland	United Kingdom	
	1995	2000	1995	2000	1995	2000	1995	2000
At 4-10 weeks	54	54	55	54	64	70	54	55
Base: All stage 1 mothers	4598	5440	1863	2274	1476	1778	5181	9492
At four to five months	76	73	77	75	80	78	77	74
Base: All stage 2 mothers	4598	4729	1863	1953	1 <i>476</i>	1617	5181	8299

The proportion of mothers giving drinks to their babies varied by mother's socioeconomic group. Mothers classified into higher socio-economic groups were less likely than mothers in lower groups or who had never worked to give drinks in addition to milk. At Stage 1, two-fifths (40%) of mothers classified to higher occupations were giving drinks compared with around two-thirds of mothers in lower occupations or who had never worked. A similar differential occurred at Stage 2 with two-thirds (64%) of mothers in higher occupations giving drinks compared with eight in ten mothers in lower occupations or who had never worked.

Table 8.3, Figure 8.1

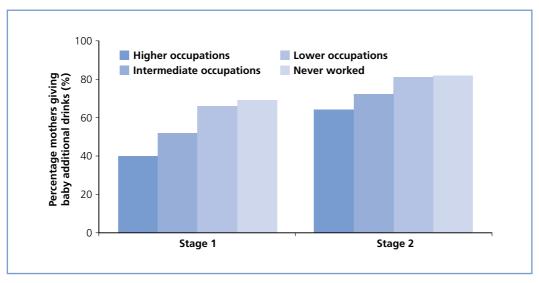
Table 8.3

Proportions of mothers giving drinks other than milk at stages 1 and 2 by mother's socio-economic classification (NS-SEC) (United Kingdom, 2000)

	Higher	Intermediate	Lower	Never	Unclassi-
	occupations	occupations	occupations	worked	fied
At 4-10 weeks	40	52	66	69	57
Base: All stage 1 mothers	<i>2790</i>	1905	2619	1276	901
At four to five months	64	72	81	82	79
Base: All stage 2 mothers	2546	1740	<i>228</i> 6	979	749

Figure 8.1

Proportions of mothers giving drinks other than milk at stages 1 and 2 by mother's socio-economic classification (NS-SEC) (United Kingdom, 2000)



Base: All mothers

8.1.2 Types of drinks given

Table 8.4 shows the types of drinks given to babies at each of the stages of the survey, in addition to milk. It should be noted that the categories 'baby drink, unsweetened' and 'adult drink, unsweetened' means no *added* sugar. Thus, these categories could include drinks in which sugars are present naturally, for example fruit juice. Appendix V gives examples of the types of drinks included in each of the categories.

At all three stages, plain water was by far the most common type of drink (other than milk) which mothers were giving. Half (54%) of all stage 1 mothers had given water, rising to two thirds (65%) at stage 2 and four fifths (83%) at stage 3. Indeed, at stage 1 very few mothers gave any additional drinks other than water. In particular, less than half a percent mentioned any of the categories of sweetened drinks (2% gave unsweetened baby drinks, and 2% gave commercial herbal drinks).

By the time the babies were around four to five months, the proportion of mothers giving unsweetened baby drinks had risen to one third (33%) – water was still twice as commonly given. Sweetened drinks of all types were still relatively uncommon, although when specifically prompted, 5% said that they sometimes gave their baby water that had been sweetened with honey or sugar.

At eight to nine months, the proportion providing their baby with unsweetened baby drinks remained at around a third (35%), although adult drinks were starting to become more common. Although in half of these cases insufficient information was given to say whether the adult drink was sweetened or not, in the large majority of cases where this information was given, the drink was unsweetened. One in six (16%) of all mothers gave unsweetened adult drinks; one in five (20%) gave adult drinks that could not be specified from the information supplied.

At all three stages, compared with 1995 results, there has been a definite shift away from sweetened to unsweetened drinks, and significantly more mothers are giving just plain water. In particular, in 1995 unsweetened baby drinks were more commonly given than water at stages 2 and 3, a situation which has reversed in 2000. At Stage 3 a quarter of mothers in 1995 were giving their baby adult drinks with sugar or glucose and one in six adult drinks with artificial sweetener, these figures reducing to negligible levels in 2000. There has also been a move away from herbal drinks compared with 1995 (this practice was quite prevalent in 1990 but has dropped away to almost negligible levels over the ten years since).

Table 8.4

Stage 1 (4-10 weeks)		(4-5)	Stage 2 (4-5 months)		Stage 3 (8-9 months)			
1995*	2000	1995*	2000	1995*	2000			
39	54	41	65	59	83			
7	*	4	5	3	2			
1	*	3	1	3	1			
9	2	63	33	76	35			
8	2	9	2	5	1			
1	*	3	*	23	3			
-	*	1	*	16	1			
2	1	8	4	21	16			
-	*	1	2	-	20			
2	2	2	2	2	3			
5017	9492	5017	8299	5017	7267			
Percentages do not add up to 100% as some mothers gave more than one answer								
n GB data a	and 2000 res	sults based o	n UK data					
	1995* 39 7 1 9 8 1 - 2 5017 as some m n GB data a	(4-10 weeks) 1995* 2000 39 54 7 * 1 * 9 2 8 2 1 * - * 2 1 - * 2 2 5017 9492 as some mothers gave n GB data and 2000 res	(4-10 weeks) (4-5 minipage) 1995* 2000 1995* 39 54 41 7 * 4 1 * 3 9 2 63 8 2 9 1 * 3 - * 1 2 1 8 - * 1 2 1 8 - * 1 2 2 2 5017 9492 5017 as some mothers gave more than on the GB data and 2000 results based on the control of the con	(4-10 weeks) (4-5 months) 1995* 2000 1995* 2000 39 54 41 65 7 * 4 5 1 * 3 1 9 2 63 33 8 2 9 2 1 * 3 * - * 1 * 2 1 8 4 - * 1 2 2 2 2 2 5017 9492 5017 8299	(4-10 weeks) (4-5 months) (8-9 months) 1995* 2000 1995* 2000 1995* 39 54 41 65 59 7 * 4 5 3 1 * 3 1 3 9 2 63 33 76 8 2 9 2 5 1 * 3 * 23 - * 1 * 16 2 1 8 4 21 - * 1 2 - 2 2 2 2 2 5017 9492 5017 8299 5017 as some mothers gave more than one answer and 2000 results based on UK data 5017			

Table 8.4

† no added sweetener

Types of drink given at stages 1, 2 and 3 of the survey (1995 Great Britain, 2000 United Kingdom)

Looking at the simpler breakdown of mothers giving water and drinks other than water, a clear pattern according to mother's socio-economic group emerges. At both stages 1 and 2, mothers at the higher end of the socio-economic classification were less likely to give both water and other drinks compared to mothers at the lower end. For example, at Stage 1, 40% of mothers in higher occupations were giving water compared with 68% of mothers who had never worked. Mothers who had never worked were also three times more likely to be giving "other" drinks than mothers in higher occupations (12% compared to 4%). Similar differentials are evident at Stage 2.

Table 8.5

Proportions of mothers giving water and other drinks additional to milk at stages 1 and 2 by mother's socio-economic classification (NS-SEC) (United Kingdom, 2000)

	Higher occupations	Intermediate occupations	Lower occupations	Never worked	Unclassi- fied
At 4-10 weeks					
Giving water	40	51	65	68	56
Giving other drinks	4	7	11	12	8
Base: All stage 1 mothers	2790	1905	2619	1276	901
At four to five months					
Giving water	57	65	71	70	69
Giving other drinks	30	36	51	55	44
Base: All stage 2 mothers	2546	1740	2286	979	749

8.1.3 Reasons for giving additional drinks

The most common reason stated for giving the baby additional drinks at both four to ten weeks and at four to five months was that the mother thought the baby was thirsty between feeds. Three in five (62%) of mothers giving additional drinks at stage 1, and four in five (82%) at stage 2 gave this reason.

At Stage 1, drinks were also given quite commonly to aid against constipation (55%), colic (33%) or just to settle the baby (28%). By Stage 2, constipation and colic were less of an issue for mothers giving drinks (27% and 8% respectively).

The reasons mothers cite for giving their babies additional drinks also varies by the method of feeding. At both stages, bottle-feeding mothers who gave additional drinks were more likely than breastfeeding mothers to do so because they thought their baby to be thirsty between feeds. Bottle-feeding mothers giving drinks were also slightly more likely to say that this was to settle their baby (although this difference was only significant at Stage 2). On the other hand, at Stage 1, breastfeeding mothers were more likely than bottle-feeders to say they gave extra drinks to help with baby's colic or digestion.

Table 8.6

8.1.4 Use of a cup or beaker

The Weaning and the Weaning Diet Report¹ recommends that 'from six months of age, infants should be introduced to drinking from a cup' to reduce long term bottle-use and improve dental health. When they were aged about nine months old, six out of seven (85%) babies had drunk from a cup or beaker with a spout. Babies in Scotland were more likely to have done so (89%) than those in Northern Ireland (85%) or England and Wales (84%). Compared with 1995, there was a slight rise in the level reporting use of a cup (from 78% to 85%) and a similar rise could be found in all countries.

Table 8.7

Reasons for giving additional drinks at stages 1 and 2 of the survey by method of feeding at that stage (United Kingdom 2000)

	4	-10 weeks	(Stage 1)	4-5 months (Stage 2)			
	Breast %	Bottle %	All babies* %	Breast %	Bottle %	All babies* %	
Because baby is thirsty	39	66	62	65	85	82	
To help baby's constipation	48	57	55	26	27	27	
To help baby's colic/ wind/ digestion	46	32	33	7	8	8	
To settle the baby	22	29	28	15	21	20	
To give baby extra vitamins	6	7	7	11	13	13	
Other reason	2	4	4	23	8	10	
Base (Mothers giving babies							
additional drinks other than water)	103	625	738	497	2917	3431	

Table 8.7

Whether baby had ever drunk from a cup or beaker by 8 to 9 months (United Kingdom, 1995 & 2000)

		ingland & Wales Scotland			orthern Ireland		United Kingdom		
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
	78	84	86	89	81	85	78	85	
Base: All stage 3 mothers	4598	4111	1863	1719	1497	1437	5181	7267	

Table 8.8 and Figure 8.2 show the age at which babies who had used a cup or beaker first did so. In 2000, half (49%) of babies in the United Kingdom using a cup had used one by the age of six months. Seven in ten (70%) of all babies using a cup had done so by the age of seven months.

Mothers introducing a cup were doing so earlier in 2000 than in 1995. A quarter (26%) had introduced the cup by 5 months compared with one in seven (15%) in 1995. By seven months, the differential is 70% (2000) against 61% (1995).

Table 8.8, Figure 8.2

Age by which babies had used a cup or beaker with a spout (1995 & 2000, United Kingdom)

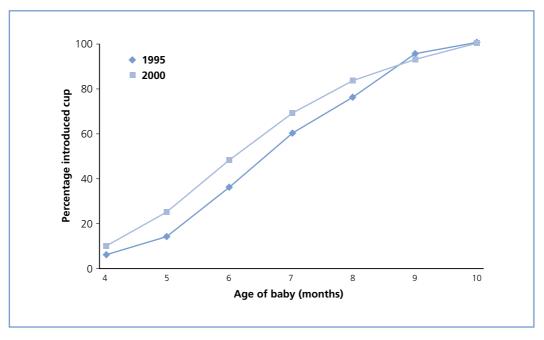
	1995	2000
	%	%
4 months	7	11
5 months	15	26
6 months	36	49
7 months	61	70
8 months*	77	84
9 months*	96	93
10 months+*	100	100
Base (Stage 3 babies who had ever used a cup)	3927	6154

*In 2000, based on reduced number of cases excluding those babies who had not reached this age by Stage 3

Figure 8.2

Age by which babies had used a cup or beaker with a spout (1995 & 2000, United Kingdom)

Base: All Stage 3 babies ever used cup



Babies of mothers classified to higher socio-economic groups were more likely to have used a cup or beaker by the age of six months compared to mothers in lower socio-economic groups. Nearly half (45%) of mothers in the higher occupational group had introduced their baby to a cup by 6 months, compared to a third (32%) of mothers who had never worked.

Proportion of mothers who had introduced their baby to a cup by 6 months by mother's socio-economic group (NS-SEC) (United Kingdom, 2000)

οςςα	Higher pations	Intermediate occupations	Lower occupations	Never worked	Unclassi- fied
Introduced cup by 6 months	45	42	38	32	40
Base: All stage 3 mothers	2315	1558	1982	769	643

8.2 Supplementary vitamins

Certain infants such as premature babies or babies of mothers with vitamin deficiencies may not be receiving required levels of nutrients through breast or formula milks. They may require the early use of supplements of Vitamins A, C and D. Otherwise, the COMA Report on Weaning and the Weaning Diet¹ recommends that vitamin supplements should be given to children aged from six months. Babies who are consuming 500ml of infant formula or follow-on formula a day do not need vitamin supplementation because these products are fortified. (The use of vitamin C enriched fruit drinks to aid iron absorption is discussed separately in Chapter 9.)

8.2.1 Use of vitamins for the baby

Table 8.10

The proportion of babies in 2000 being given vitamins at four to ten weeks is just 4%. This continues a longer-term trend in declining use of this practice. In 1985, nearly three in ten babies in Great Britain (27%) were receiving extra vitamins at the time of the Stage 1 survey, which fell to 6% by 1995. By Stage 2, the level of mothers in 2000 giving extra vitamins remained similar to the level at Stage 1 (5%), this also continuing a longer-term decline. Table 8.7 shows the data from 1990 onwards.

Table 8.10

	1990	1995	2000
	%	%	%
At four to ten weeks	12	6	4
Base: All Stage 1 mothers	5533	5181	9492
At four to five months	19	10	5
Base: All Stage 2 mothers	<i>5533</i>	<i>5181</i>	8298

Whether supplementary vitamins given to babies at Stage 1 and Stage 2 (United Kingdom, 1990, 1995, & 2000)

The data for Stages 1 and 2 showed no difference by feeding method. However, there were some groups of mothers who were more likely than average to be giving vitamins at Stage 1. These included mothers of babies who began life in special care (26% giving

vitamins), babies of low birthweight under 2500g (36% giving vitamins), and babies of Asian or Black parentage (11% and 17% respectively). The latter two findings are related since babies born to Black or Asian mothers are smaller on average compared with white babies. Also, babies born to Asian mothers are advised to give drops containing Vitamin D. The higher prevalence of giving vitamins among these groups continues at Stage 2.

Table 8.11

Table 8.11

Whether supplementary vitamins given to babies at Stage 1 and Stage 2 by special care, birth weight and ethnicity (United Kingdom, 2000)

	Baby in speci	al care	Baby's birthweight					Et	hnicity	
	Yes %	No %	< 2500g %	2500- 3499g %	3500g + %	White %	Black %	Asian %	Mixed %	Other
At 4 to 10 wee Base: All Stage		2	36	2	2	3	11	17	5	-
mothers	846	8551	539	4766	4093	8608	275	184	93	67
At 4 to 5 mont Base: All Stage		3	35	3	3	4	23	17	8	4
mothers	713	7507	447	4162	3640	7631	202	132	80	57

By Stage 3, there was an increase in the proportion of mothers from the 2000 survey giving extra vitamins, with one in ten (10%) doing so. This again represents a declining trend over the survey years (30% in 1990 and 17% in 1995 - these figures based on mothers in Great Britain).

At Stage 3, there was a variation in the level of mothers giving vitamins by method of milk feeding. Breastfeeding mothers and those giving liquid cow's milk were the most likely to be giving vitamins (18% and 17% respectively), while those giving formula feeds were the least likely (8%).

Table 8.12

Table 8.12

Whether supplementary vitamins given to babies at about 8 to 9 months old, by feeding method (United Kingdom 2000)

	Breastfed		All babies*	
	%	Liquid cow's milk %	Infant formula %	%
Received vitamins	18	17	8	10
Base (All Stage 3 mothers) 959	538	5752	7266
*includes some babies wł	no received only n	on-human milk for w	hich type was not kno	wn

There was relatively little difference in the proportion of mothers giving vitamins by country, although babies in Northern Ireland were slightly less likely than babies in other countries to be receiving vitamins at stages 2 and 3. The decrease in proportions over time within country reflect the general trend in declining use of vitamins as discussed above.

Table 8.13

Table 8.13

Proportion of mothers giving extra vitamins at stages 1, 2 and 3, by country (1995 and 2000 United Kingdom)

		ngland Wales	Scotland		Northern Ireland		United Kingdom	
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
At four to ten weeks At four to five months At eight to nine months	6 9 n/a*	4 5 11	8 13 n/a*	3 6 9	3 8 n/a*	3 3 7	6 10 n/a*	4 5 10
Bases: Stage 1 mothers	4598	5440	1863	2275	1476	, 1778	5181	9492
Stage 2 babies Stage 3 babies	4598	4729 4112	1863	1953 1719	1476	1618 1438	5181	8299 7266
* Data not available for 1995	5							

Of those who were giving vitamin drops at any of the three stages, two thirds at each stage used Department of Health Children's Vitamin Drops that they either bought, or received free or on prescription from the Child Health Clinic. At four to ten weeks, mothers were more likely to receive their vitamins free of charge or on prescription; at later stages the mothers were more likely to buy their babies' vitamins. Over three in five mothers giving vitamins at stage one received them free or on prescription, falling to two in five at stage two and one in five at stage three.

Table 8.14

Та	b	e	8.	1	4
	~		<u> </u>	1	

Types of vitamins given at stages 1, 2 and 3 (United Kingdom 2000)

	4-10 weeks	4-5 months	8-9 months
-	%	%	%
Children's Vitamin Drops:	64	66	68
Bought at a clinic	13	22	34
Free/ prescribed at clinic	43	28	17
Obtained elsewhere	7	14	18
Other brands:	31	35	31
Bought	9	18	29
Prescribed	22	15	2
Base (Mothers giving supplementary vitaming	5) 363	425	743

8.2.2 Use of vitamins for the mother

"Present day practice in infant feeding: third report"² states that the vitamin content of human milk is sufficient for the infant's requirements provided the mother has a balanced diet. At about four to ten weeks, a third (35%) of breastfeeding mothers were taking supplementary vitamins and/ or iron tablets, this falling to around a quarter over the next two survey stages.

By country, it emerges that breastfeeding mothers in Northern Ireland were more likely than these mothers in other countries to have taken supplementary vitamins. Around two-fifths (43%) were taking vitamins at Stage 1 compared with around a third (34%) in England and Wales and Scotland. This differential remained at Stages 2 and 3 with a third of breastfeeding mothers in Northern Ireland taking vitamins at Stage 3 compared to about a quarter in the other countries.

Table 8.15, Figure 8.3

Table 8.15

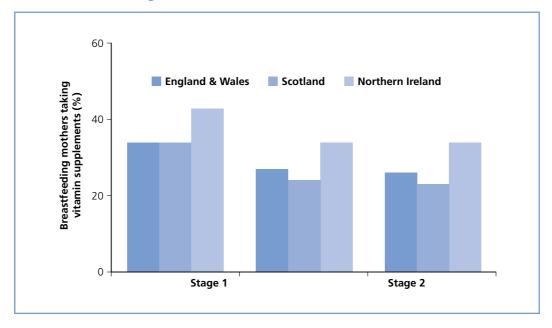
	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
At four to ten weeks	34	34	43	35
At four to five months	27	24	34	27
At eight to nine months	26	23	34	26
Bases				
All breastfeeding mothers at Stage 1	2374	897	421	3692
All breastfeeding mothers at Stage 2	1289	518	212	2019
All breastfeeding mothers at Stage 3	561	232	80	873

Percentage of breastfeeding mothers who took supplementary vitamins at stages 1, 2 and 3, by country, 2000

Figure 8.3

Percentage of breastfeeding mothers who took supplementary vitamins at stages 1, 2 and 3, by country, 2000

Base: All breastfeeding mothers



- ¹ Department of Health. Weaning and the Weaning Diet, Report of the Working Group on the Weaning Diet of the Committee on Medical Aspects of Food Policy Report on Health and Social Subjects 45, HMSO (London:1994)
- ² Department of Health and Social Security. Present day practice in infant feeding: third report. Report on Health and Social Subjects 32. HMSO (London: 1988)

9

Solid foods

Age of introduction of solid foods

- Compared with 1995, mothers in 2000 were introducing solids later. By three months, a quarter of mothers (24%) had introduced solid foods, which was less than half the proportion recorded in 1995 (56%). The majority (85%) had introduced solids by the age of four months and by six months, virtually all babies had been introduced to solid food.
- Despite this movement towards later introduction of solids, a high proportion of mothers was starting solid food earlier than thought desirable. Only half (49%) of mothers had introduced solids within the recommended window of four to six months (16 to 26 weeks), the large majority of the remainder introducing solids before 16 weeks (49% of all mothers).
- Solid food tended to be introduced at a younger age amongst mothers in Northern Ireland, mothers of babies with heavier birth weights, those in lower social classes, and mothers with lower educational levels. In addition, white mothers introduced solids earlier on average than mothers of Asian, Black and mixed ethnic origins.

Solid foods given at different ages

- When babies were four to five months old, mothers giving solids were more likely to give commercially prepared babyfood (62%) than home-made food (38%), although by eight to nine months this had reversed, with seven in ten mothers (70%) giving home-made food compared with 52% giving babyfood.
- Six per cent of mothers said they had never given their baby meat: of these, three in five said it was because their baby was not ready for it yet, and three in ten said they intended to give their baby a vegetarian diet. Concern about BSE appears to have abated since 1995, with results for meat consumption returning to the levels of the 1990 survey.

Influences on choice of solid food

- In choosing which solid foods to give their baby, mothers at stage two most frequently took account of the nutritional value of foods, either in general terms or specifically relating to sugar, vitamins, gluten or salt. The desire to give baby a variety of flavours and food that suited their preferences were also taken into account
- Half (47%) of stage three mothers avoided particular ingredients, most commonly sugar, salt and nuts. The most common reason for avoiding ingredients was allergies this being a reason for a third (35%) of avoidances.

Difficulties with weaning

• One in ten mothers said that they had encountered difficulties in weaning their child onto solid foods, a half attributing this to their baby only accepting certain types of food. Compared with white mothers, mothers from ethnic minority backgrounds were much more likely to report problems with feeding their baby solids.

In this chapter, we explore the age of introduction of solid food, how this varies by different subgroups, and trends over time. We also investigate the different types of food given by mothers to their babies at different ages, influences on mothers' choice of solid food and any difficulties encountered.

9.1 Age of introduction of solid food

The COMA Report of the Working Group on the Weaning Diet1 recommends that 'the majority of infants should not be given solid foods before the age of four months, and a mixed diet should be offered by six months'. In 2001, the WHO issued a revised global recommendation that mothers should breastfeed exclusively for 6 months. Mothers in the 2000 survey will clearly not have been exposed to this advice as the survey predates it. However, it is useful to look at the 2000 figures in the light of these recommendations so that a benchmark can be set for tracking trends in later surveys.

9.1.1 Trend data by country

The results over time have shown that, in each subsequent survey wave, the age of introduction of solids has become progressively later². This has tended to reflect changes in the recommendations prevailing at the time of the different surveys, as well as changes in the composition of the samples of mothers. In 2000, a very small proportion of mothers in the UK (3%) had introduced solid foods by the time their babies were six weeks old, which was lower than the proportion recorded in 1995 (7%). By three months, a quarter (24%) had already introduced solids, less than half the proportion recorded in 1995 (56%). These figures indicate a declining trend in early weaning although a significant proportion are still introducing solid foods early.

By country, it can be seen that mothers in Northern Ireland start solids earlier on average than mothers in other countries. A third (34%) of mothers in Northern Ireland have introduced solids by three months compared to 28% of mothers in Scotland and 23% of mothers in England and Wales. Between 1995 and 2000, the decline in the practice of weaning onto solids before 4 months is evident in all countries. In each country, the proportion of mothers who have introduced solids by 3 months has halved over the past five years.

Thus, these results show a definite and ongoing shift towards later introduction of solids. However, a more detailed analysis of the data reveals that a large proportion of mothers were not following the prevailing recommendation –that is for babies to be introduced to solid food at a minimum age of four months, and a maximum of six months. (Although in theory, this should be defined as 17-26 weeks, we discovered that 28% of all mothers recorded that they began their baby on solids at exactly 16 weeks, which many mothers may have interpreted as four months. Therefore we have included these mothers as starting within the "four to six month" window, and this window is defined as 16-26 weeks).

In fact only half (49%) of all mothers began their babies on solids within the timeframe of 16-26 weeks, the large majority of the remainder starting earlier than this (49% of all mothers). A similar pattern emerges in each country, although mothers in Northern Ireland were slightly less likely than mothers in other countries to start solids within the

recommended window (43%), and consequently slightly more likely to begin earlier than advised (55%).

Thus the figures indicate that although, over time, there has been an ongoing movement towards later introduction of solids, a very high proportion of mothers are still starting solid food earlier than is generally thought desirable.

Table 9.1, Figure 9.1

Table 9.1

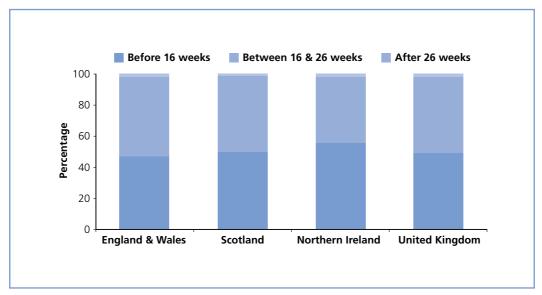
Age of introduction of solid food by country (1995 and 2000 United Kingdom)

	England & Wales		S	otland	Northern Ireland		United Kingdom	
	1995	2000 Pe	1995 ercentage	2000 giving so	1995 olid food	2000	1995	2000
6 weeks	7	3	8	4	8	3	7	3
8 weeks	12	4	22	7	18	8	13	5
3 months (13 weeks)	54	23	64	28	63	34	56	24
4 months (17 weeks)	91	85	91	83	92	85	91	85
6 months (26 weeks)	99	98	99	99	100	98	99	98
9 months (39 weeks)*	100	100	100	100	100	100	100	100
Before 16 weeks		47		50		55		49
Between 16 & 26 weeks† Δ		51		49		43		49
After 26 weeks†		2		1		2		2
Bases (Stage 3 mothers)	4569	4112	1856	1718	1464	1437	5160	7267

*Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3 † Data not available for 1995

 Δ See third paragraph of section 9.1.1, page 164 for an explanation of the derivation of this scale

Figure 9.1 Age at introduction of solids by country (United Kingdom (2000) Base: All Stage 3 mothers



9.1.2 Variation in the age of introduction of solids

Feeding method (breast or infant formula)

Table 9.2 analyses the age of introduction of solids by whether the mother was breastfeeding at the stage of survey when she said she introduced solids. It is not possible to tell from the survey what the mothers' method of feeding was at the time she introduced solids. Therefore this data should be taken as an indication of a relationship between feeding method and introduction of solids, rather than a precise association.

As in previous years, mothers of babies who were not breastfed were more likely to give solid foods earlier. Among mothers who were bottle feeding exclusively, 3% had introduced solid foods by six weeks, and 28% by 3 months, compared with 1% and 12% respectively of mothers who were giving milk only from the breast at the time of weaning. Mothers who fed both breast and bottle milk at the time of weaning fell between these two sets of results.

Table 9.2

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Table 9.2
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Age at introduction of solid food, by method of feeding at relevant stage (United Kingdom 2000)*

	Breastfed	Breastfed & bottlefed centage giving so	Not breastfed lid food	All babies†
6 weeks	1	2	3	3
8 weeks	1	3	6	5
3 months (13 weeks)	12	16	28	24
4 months (17 weeks)	79	83	88	85
6 months (26 weeks)	98	99	99	98
9 months (39 weeks)**	100	100	100	100
Base (All Stage 3 mothers	s) 986	888	5284	7267

* See text for an explanation of how this table has been derived

**Based on a reduced number of cases excluding those babies who had not reached this age by Wave 3 † Includes some cases where feeding method at relevant stage not known

Birth order

There is no difference in the pattern of age of starting solid foods by birth order. Mothers of first babies were as likely to have introduced solids by 3 months as mothers of later babies (both 24%). They were also equally likely to have begun solids within the recommended 16 to 26 week window (around half of all mothers in each group doing so).

	First births	Later births	All birth
	Percen	tage giving solid food	
6 weeks	2	3	3
8 weeks	4	5	E S
3 months (13 weeks)	24	24	24
4 months (17 weeks)	87	83	8
6 months (26 weeks)	98	98	98
9 months (39 weeks)*	100	100	100
Before 16 weeks	49	46	49
Between 16 & 26 weeks Δ	49	52	49
After 26 weeks	2	2	ź
Base (Stage 3 mothers)	3367	3900	7267

Table 9.3Age at introduction of solid food, by birth order (United Kingdom 2000)

Baby's birthweight

In investigating which babies are introduced to solids at an earlier age, it is not possible to look directly at whether bigger babies who may have a more demanding appetite are introduced to solids any earlier than smaller babies, since no information was collected on the weight or length of the baby at the time the questionnaires were completed. However, as babies growing normally will do so at a rate related to their birthweight, this can be used as an indicator of weight in later infancy.

The pattern was similar to that found in previous years, with mothers of higher birthweight babies tending to introduce solid food at an earlier age. For example, one in four (26%) mothers of babies weighing 3,500 grammes or more at birth had introduced solid foods by three months, compared with one in seven (14%) mothers whose babies weighed under 2,500 grammes. Among this lowest birthweight group, only three-quarters (73%) had introduced solids by four months, compared with over eight in ten in the other birthweight categories. Mothers of babies in this lowest birthweight group were consequently more likely to have followed recommended guidelines with three-fifths (62%) starting within the 16-26 week time-frame compared to a little under half (46%) of mothers of babies in the highest birthweight group.

Table 9.4, Figure 9.2

Table 9.4

Age at introduction of solid food, by birthweight (United Kingdom, 2000)

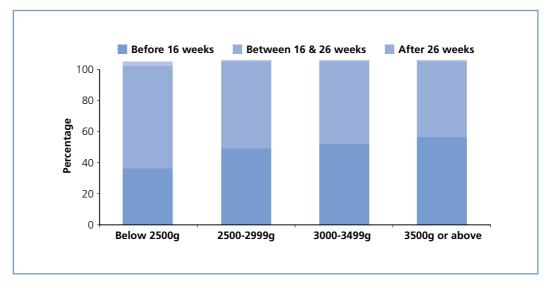
	< 2500g	Bi 2500-2999g	rthweight of bal 3000-3499g	by 3500g +	All babies**
		Percentage	e giving solid foo	bd	
6 weeks	1	2	3	3	3
8 weeks	1	4	6	5	5
3 months (13 weeks)	14	22	23	26	24
4 months (17 weeks)	73	84	87	87	85
6 months (26 weeks)	96	99	99	99	98
9 months (39 weeks)*	99	100	100	100	100
Before 16 weeks	34	46	49	53	49
Between 16 & 26 weeks	<u>م</u> 62	53	50	46	49
After 26 weeks	3	1	1	1	2
Base (All Stage 3 mother.	s) 362	1101	2456	3218	7267

*Based on a reduced number of cases excluding those babies who had not reached this age by Wave 3 **Includes some cases where birthweight not known

 Δ See third paragraph of section 9.1.1, page 164 for an explanation of the derivation of this scale

Figure 9.2





Mother's socio-economic status (NS-SEC)

As might be expected, there was a relationship between socio-economic group and age of introduction of solids. Mothers classified to the highest occupational group were less likely to have introduced solids by three months (17%) compared to mothers in the lowest occupational category (29%) or who had never worked (31%).

However, two-fifths (42%) of higher occupation mothers still introduced solids earlier than recommended, which compares to around a half in each of the other occupational groups.

Table 9.5, Figure 9.3

Table 9.5

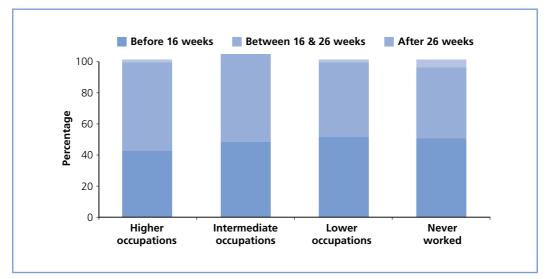
Age at introduction of solid food, by mother's socio-economic group (NS-SEC) (United Kingdom, 2000)

	Higher occupations	Intermediate occupations	Lower occupations	Never worked	Unclassi- fied
		Р	ercentage givir	ng solid food	
6 weeks	2	2	4	5	2
8 weeks	3	4	7	7	5
3 months (13 weeks)	17	22	29	31	27
4 months (17 weeks)	84	86	87	82	83
6 months (26 weeks)	98	98	98	95	97
9 months (39 weeks)*	100	100	100	100	100
Before 16 weeks	42	48	51	50	42
Between 16 & 26 weeks	<u>م</u> 56	50	47	45	55
After 26 weeks	2	2	2	5	3
Base (All Stage 3 mother	s)** 2315	1558	1982	769	644

*Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3 Δ See third paragraph of section 9.1.1, page 164 for an explanation of the derivation of this scale

Figure 9.3 Age at introduction of solids by mother's socio-economic group (United Kingdom (2000)





Social class based on occupation of husband or partner

In order to allow comparisons with 1995, the data on age of introduction of solids have also been analysed by partner's social class. The later introduction of solids in 2000 as compared to 1995 is evident within all social class groups, with mothers in 2000 being two to two-and-a-half times less likely than in 1995 to have introduced solids by 3 months within each category. The largest proportional shifts were seen in social class groups II (from 45% to 17% giving solids at 3 months) and IIINM (from 54% to 21%).

Table 9.6

Table 9.6

Age of introduction of solid food based on current or last occupation of husband or partner (Great Britain 1995, United Kingdom, 2000)*

		I		II		IIINM		IIIM		IV		v	No pa Unclas	
	1995	2000	1995	2000	1995 Perc	2000 entage		2000 g solid	1995 food	2000	1995	2000	1995	2000
6 weeks	2	1	4	2	5	2	7	3	8	4	9	5	12	4
8 weeks	3	2	7	2	10	4	14	5	13	8	19	8	22	7
3 months	35	16	45	17	54	21	59	27	58	28	68	35	67	28
4 months	88	79	88	82	91	87	93	88	92	87	94	85	93	85
6 months	98	99	100	98	100	98	99	98	100	98	99	97	99	97
9 months **	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Base (All Stage														
3 mothers)	341	539	1296	1900	390	663	1237	1946	537	774	180	286	1017	1161
*Note that 1995 data is based on Great Britain * *Based on a reduced number of cases excluding babies who had not reached this age at Stage 3														

Age left full-time education

Table 9.7 displays the age of introduction of solid food by educational level. Mothers completing their education below the age of 17 introduced solids earlier on average than more educated mothers. Three in ten mothers (29%) in the lowest educational group had introduced solids before 4 months, compared with only one in six mothers (17%) in the highest educational group.

There was also a wide variation by educational level in the proportion of mothers introducing solids within the recommended window. Three-fifths of mothers (60%) in the highest educational group had begun solids within the 16-26 weeks window, compared with only 45% of mothers in the lowest educational group. In fact, a little over half of mothers educated to age 16 or under (53%) were introducing solids before the recommended age.

Table 9.7

Table 9.7

Age at introduction	of solid food	l, by age lef	t full-time	education	(United Kingdom,
2000)					

	16 or under	17 or 18	19+	All mothers**
	%	%	%	%
2 weeks	*	*	*	*
6 weeks	4	2	1	3
8 weeks	7	4	3	5
3 months (13 weeks)	29	24	17	24
4 months (17 weeks)	87	86	81	85
6 months (26 weeks)	98	98	97	98
9 months (39 weeks)*	100	100	100	100
Before 16 weeks	53	49	37	49
Between 16 & 26 weeks Δ	45	49	60	49
After 26 weeks	2	2	3	2
Base (All Stage 3 mothers)	2510	2595	2104	7267

*Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3 ** Includes some cases where mothers' educational level not known

 Δ See third paragraph of section 9.1.1, page 164 for an explanation of the derivation of this scale

Ethnicity

Mothers from ethnic minority backgrounds introduced solids later on average than white mothers. Asian mothers were the least likely to have introduced solids by 3 months, with 14% doing so compared with 25% of white mothers. At four months, Black mothers were the least likely to have introduced solids with 73% having done so compared with 86% of white mothers.

Following on from this, mothers of Asian, Black and mixed ethnic origin were more likely than white mothers to introduce solids within 16-26 weeks. About two in three mothers in each of these groups had introduced solids within the recommended window, compared with only about half of all white mothers. Mothers of Asian, Black and other ethnicity were also more likely than their white counterparts to introduce solids after 6 months (respectively 6%, 6% and 15% compared with 2% of white mothers).

Table 9.8, Figure 9.4

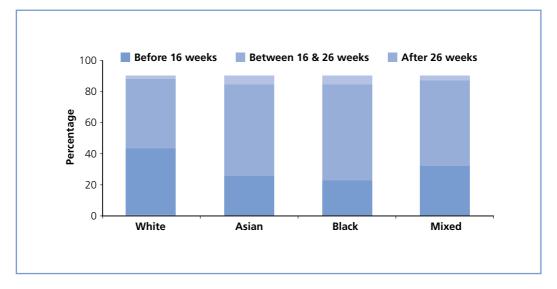
	White	Asian	Black	Mixed	Other
	%	%	%	%	
6 weeks	3	1	3	2	[7]
8 weeks	5	1	5	3	[7]
3 months (13 weeks)	25	14	17	18	[18]
4 months (17 weeks)	86	80	73	85	[57]
6 months (26 weeks)	98	94	94	97	[85]
9 months (39 weeks)*	100	100	100	100	[100]
Before 16 weeks	48	28	25	36	[30]
Between 16 & 26 weeks Δ	50	66	69	61	[55]
After 26 weeks	2	6	6	3	[15]
Base (All Stage 3 mothers)	6761	149	103	61	[44]

Age at introduction of solid food, by ethnicity (United Kingdom, 2000)

*Based on a reduced number of cases excluding those babies who had not reached this age by Stage 3 Δ See third paragraph of section 9.1.1, page 164 for an explanation of the derivation of this scale

Figure 9.4

Age at introduction of solids by ethnicity (United Kingdom (2000) Base: All Stage 3 mothers



9.2 Solid foods given at different ages

At each stage, mothers who had introduced solids into their babies' diets were asked to list all the cereal, rusks or solid food the baby had eaten on the day before they completed the questionnaire. The mothers were asked to describe each food fully, giving the brand name or saying if it was home-made. For commercial baby food, mothers ticked a column to show whether it was dried or from a tin or a jar. This information was coded from a large range of precodes, which tended to summarise each meal or snack rather than defining each ingredient in the food. Some foods, therefore, may appear to be underrepresented as they were eaten as part of a main dish, not coded separately. For example, a home-made meal consisting of chicken, potatoes and carrots would have been coded once as a meat-based meal rather than as three separate codes. The full codeframe can be found in Appendix VI.

Table 9.9 shows what foods were given to babies on the previous day at the different stages, in summarised form. For the small number of mothers who were providing solids at 4-10 weeks, half (51%) had given cereals, most commonly rice cereals (39%). Two in five (38%) had given rusks, and one in eight (13%) had given baby food that was either dried or from a can or a jar. This was twice as likely to be from a can or a jar (9%) than to be dried (4%).

By about four months, the foods given by mothers providing solids were more likely than at stage one to be non-rice cereals, commercially prepared babyfood and home-made food, with a decline in the popularity of rice cereals and rusks. In two thirds (66%) of cases where babies were fed solids, cereals of some type formed part of the diet, with commercial babyfood almost as common an element (62%). Of the commercially-prepared babyfood, food in cans or jars was twice as likely to be provided as dried foods requiring mixing with milk or water before serving (present in 47% and 23% of solid diets respectively).

By Stage 3, when babies were about nine months old the vast majority of mothers (97%) had given solid food the previous day. Four out of five (78%) of these babies had been given cereal; again, as babies grew older they were much more likely to receive non-rice cereals (75% at stage 3) rather than rice cereals (6%). Half (52%) had been given some form of commercially prepared babyfood; almost always this included food from cans or jars (47%), although 9% received dried food. Only one in six (16%) babies on solids at stage 3 still had rusks as part of their diet.

The COMA Report of the Working Group on the Weaning Diet¹ suggests that it is important to give home-prepared foods as part of weaning, in order to introduce the infant to a greater range of flavours and textures than manufactured foods can provide. It is therefore encouraging that seven in ten (70%) mothers providing solid food by stage 3 included home-made food in their baby's diet. The category 'other foods', given by 58% of stage 3 mothers providing solids, covers all types of commercially-prepared adult food.

Table 9.9

Proportion of mothers who had given different kinds of food on day before completion of questionnaire at each stage of the survey (United Kingdom, 2000)

	4-10 weeks	4-5 months	8-9 months
	Perce	ntage giving each food	
Cereals*	51	66	78
Rice cereal*	39	27	6
Other cereal*	17	44	75
Rusk	38	24	16
Commercial babyfood**	13	62	52
Dried babyfood**	4	23	9
Babyfood in cans or jars**	9	47	47
Babyfood, type unspecified**	1	1	*
Home-made food	9	38	70
Other food	2	14	58
Base (All mothers who had given solid food	ı		
on day before completing questionnaire)	252	7389	7063

Percentages do not add to 100% as some mothers gave more than one answer;

Also, subheadings do not add to headings as some mothers gave more than one answer under each heading *Baby or adult cereal

**Commercially prepared foods in cans or jars or dried food

The two categories shown in the Table 9.9 labelled "home-made food" and "other food" are broken down in detail in Table 9.10 for stages 2 and 3 (only a small number of stage 1 babies were receiving these types of solids). At about four months, the most popular foods given were vegetables (12% received potatoes, 22% other vegetables) and fresh fruit (19%). One in ten mothers providing solid food gave yoghurt or fromage frais to their baby (11%), and one in twenty (6%) had given their baby a meat-based meal on the day before completing the questionnaire. Compared with 1995, mothers who had given solid food the previous day were slightly more likely to give their four to five month baby yoghurt (11% compared with 5% in 1995) and slightly less likely to be giving meat (6% compared with 10%).

Only 1% of solid diets at stage 2 had included bread or toast on the previous day, but by stage 3 (about nine months) this had risen to a quarter (27%). This reflects the advice given to mothers to avoid gluten (found in cereals such as wheat used in breadmaking) before the infant is six months old, in order to reduce the risk of coeliac disease.

On the day before completion of the stage 3 questionnaire, two in five babies receiving solid foods had eaten yoghurt or fromage frais (43%), a third had had fruit (32%) and one in ten some other dessert (10%). Meat-based meals were the most popular type of combination meal: 36% of babies receiving solids had had a meat-based meal, 9% a fish-based meal and 2% a vegetable-based meal. Overall the results at stage 3 of the questionnaire were broadly similar for 1995 and 2000, although there was a slight decline in the provision of desserts other than fruit and yoghurt (from 17% in 1995 to 10% in 2000) and vegetable-based meals (from 9% to 2%).

Proportion of mothers who had introduced solids at Stages 2 and 3 giving different kinds of food on one day (Great Britain 1995, United Kingdom 2000)

	4	-5 months	8	-9 months
Type of food	1995 * %	2000 %	1995* %	2000 %
Yoghurt	5	11	47	43
Fresh fruit	19	19	34	32
Other dessert	2	1	17	10
Dried fruit or nuts	2	1	1	1
Egg	1	*	4	1
Cheese and dairy produce	2	1	11	10
Meat based meal	10	6	40	36
Fish based meal	2	1	10	9
Vegetable based meal	2	1	9	2
Potatoes	14	12	19	13
Other vegetables	20	22	23	18
Bread/ toast and sandwiches	2	1	35	27
Other foods	2	2	21	20
Base (Mothers giving solid food on				
day before completing questionnaire)	4898	7389	5060	7063

Percentages do not add to 100% as some mothers gave more than one answer * Note that 1995 data is based on Great Britain

In the stage three questionnaire, mothers were asked how often they gave their baby different types of foods. The results are presented in Table 9.11, which also presents results for 1995 on the same measures. The very small proportion of mothers who had not introduced their baby to solids by stage three are included in the 'Never' categories. The majority of stage three mothers in 2000 gave their baby some food containing carbohydrates at least once a day: four out of five (82%) gave cereals or rusk, almost half gave bread (45%) and one in five (19%) rice or pasta. Seven out of ten (70%) gave dairy products every day, a considerable increase on the level seen in 1995 (55%). About half gave cooked vegetables (53%) and puddings or desserts (49%) every day.

The majority of mothers gave most of the different food types at least once a week. The exceptions to this were raw vegetables, eggs, and sweets and chocolates – in each of these cases the majority of mothers gave them to their babies less than once a week or never. In particular, 44% never gave their baby raw vegetables and 42% never gave eggs (although mothers were less likely to avoid each of these food types than in 1995), and 33% never gave sweets or chocolates to their babies. Foods which are avoided, and the reasons why, will be looked at in more detail in Section 9.3.

Table 9.11

Frequency with which mothers gave different types of food at stage 3 (Great Britain 1995, United Kingdom 2000)

	1995*	2000		1995*	2000
	%	%		%	%
Cereal or rusk			Raw vegetables		
At least once a day	86	82	At least once a day	5	E
At least once a week	10	11	At least once a week	21	25
Less than once a week	2	2	Less than once a week	18	17
Never	2	3	Never	57	44
Rice or pasta			Cooked vegetables		
At least once a day	12	19	At least once a day	47	53
At least once a week	63	62	At least once a week	47	39
Less than once a week	12	7	Less than once a week	3	
Never	13	7	Never	5	3
Bread			Raw fruit		
At least once a day	46	45	At least once a day	30	37
At least once a week	36	36	At least once a week	42	40
Less than once a week	8	6	Less than once a week	11	3
Never	11	8	Never	17	1(
Meat			Cooked fruit		
At least once a day	29	35	At least once a day	15	17
At least once a week	51	47	At least once a week	39	38
Less than once a week	7	47 5	Less than once a week	18	16
Never	14	9	Never	28	23
Fish			Cheese, yoghurt, fromage f	rais	
At least once a day	4	4	At least once a day	55	70
At least once a week	51	51	At least once a week	34	23
Less than once a week	21	18	Less than once a week	5	2
Never	25	20	Never	6	2
Eggs			Puddings or desserts		
At least once a day	2	1	At least once a day	49	40
At least once a week	26	25	At least once a week	32	28
Less than once a week	26	24	Less than once a week	10	1(
Never	47	42	Never	9	<u>(</u>
Potatoes			Sweets or chocolate		
At least once a day	31	31	At least once a day	7	8
At least once a week	60	60	At least once a week	33	3'
Less than once a week	5	3	Less than once a week	28	2:
Never	4	3	Never	32	33
Peas, beans, lentils, Chick	neac				
At least once a day	peas 12	15			
At least once a week	54	54			
Less than once a week	54 14	12			
Never	14	12			
Base (All Stage 3 mothers)	5180	7267	Base (All Stage 3 mothers)	5180	7267

Table 9.12 shows the how the frequency of giving different types of food varies by mother's socio-economic group. Mothers from higher socio-economic groups were more likely than mothers in lower groups or who had never worked to give rice or pasta, meat, fish, cooked vegetables, fruit (raw and cooked), and dairy products with a frequency of at least three times a week. On the other hand, mothers in lower occupations or who had never worked were more likely than those in higher occupations to give their babies on a regular basis eggs and puddings or desserts. They were also considerably more likely to give sweets or chocolates with this frequency; mothers who had never worked were around three times more likely to give sweets or chocolates at least three times a week (29%) than mothers in higher occupations (11%).

Table 9.12

Table 9.12

Percentage giving different foods at least three times a week at Stage 3 by mother's socio-economic group (NS-SEC) (United Kingdom, 2000)

	Higher occupations	Intermediate occupations	Lower occupations	Never worked	Unclassi- fied
		Percentage	giving at least	three times a	week
Cereal or rusks	92	88	88	85	85
Rice or pasta	60	53	44	41	56
Bread	68	66	66	66	68
Meat	74	69	65	51	66
Fish	25	22	21	15	22
Eggs	6	5	8	11	8
Potatoes	75	74	74	72	72
Peas, beans, pulses	42	44	47	47	47
Raw vegetables	18	16	18	17	19
Cooked vegetables	90	82	78	66	79
Raw fruit	68	63	57	53	65
Cooked fruit	53	36	30	22	33
Cheese, yoghurt etc.	90	88	89	80	81
Puddings or desserts	60	65	71	69	64
Sweets or chocolate	11	16	23	29	22
Base (All Stage 3 mothers) 2315	1558	1982	769	644

Consumption of meat

Meat and meat products are rich in haem iron which can be readily absorbed by infants. The Department of Health therefore recommends that foods containing haem iron should be introduced by six to eight months¹. In order to focus further on consumption of meat at stage three when the babies were about nine months old, mothers were asked whether their baby had ever had meat, how often they gave meat, and, of those who did not give meat, why they were not doing so.

Compared with 1995, mothers in 2000 were giving meat more frequently at stage three of the survey. As shown in Table 9.11 earlier, a third (35%) gave meat every day in 2000, compared with 29% in 1995, with a corresponding fall in the number who never gave meat nowadays – 14% in 1995, 9% in 2000.

Among babies at Stage 3 who had been introduced to solids, around a third (35%) had been given meat on a daily basis, and three-quarters (73%) were fed meat at least three times a week (77%). This is very similar to the frequency seen in 1995. As in previous years, there were variations in the frequency of eating meat by social class. Table 9.13 displays the results by social class based on husband and partner for 1995 and 2000, so that trends over time can be surmised. There is a general trend for increased daily consumption of meat across most social class groups, although significant increases can only be observed in groups II, IIINM, IIIM and no partner/unclassified.

Table 9.13

Table 9.13

Frequency of consumption of meat at stage 3, by social class as defined by current or last occupation of husband or partner (Great Britain 1995, United Kingdom 2000)*

		I		п		IIINM		IIIM		IV		v	No pa Unclas	
	 1995 %	2000 %	1995 %	2000 %	 1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	 1995 %	2000 %
Every day At least 3 time	34 s	35	31	36	29	35	29	37	31	36	29	31	26	33
a week	73	73	69	72	71	71	67	69	67	66	66	60	61	60
Ever	91	94	94	93	94	93	93	93	92	93	95	92	90	90
Base (All Stage 3 mothers who had ever given their baby solids)														
	337	539	1296	1879	389	660	1233	1912	535	765	177	281	1014	1144

Mothers who had not given their baby meat at all were asked why, and the reasons given are shown in Table 9.14 (the first three answers were listed as options in the questionnaire, the remaining two specified answers were coded from spontaneously given answers. Three out of five mothers not feeding meat (60%) said that their baby was not ready for it yet, whilst three in ten (29%) said they intended to give their baby a vegetarian diet. These two answers accounted for the vast majority of cases. Only a small proportion (4%) said it was because their baby did not like meat. Compared with 1995, there has been a significant drop in the proportion of people mentioning media health scares, which relates to the much higher profile of BSE/CJD at the time of the previous wave.

Table 9.14

The COMA Report of the Working Group on the Weaning Diet¹ states that it is important for babies having vegetarian diets to be provided with high levels of vitamin C, as this enhances the absorption of iron present in non-meat sources of iron. One method of ensuring this is by giving supplements of vitamin C. However, only one in five (21%) of babies who did not have meat in their diets were receiving extra vitamins (either directly, or through breastfeeding at stage 3 by mothers who took vitamin supplements at the time). This remains unchanged from the corresponding proportion in 1995 (20%).

Reasons for not offering meat (Great Britain 1995, United Kingdom, 2000)*

	1995	2000
	%	%
Baby does not like meat	8	4
Baby is not ready to eat meat	51	60
Baby given a vegetarian diet	31	29
Media scares/ publicity (incl. BSE/FMD)	8	1
Other reasons	2	2
Base (Stage 3 mothers who had never given their baby meat)	369	446
* Note that 1995 data is based on Great Britain		

Giving drinks containing vitamin C

The COMA Report also suggests that vitamin C enriched fruit drinks consumed with a meal may be useful to aid the absorption of iron from a meal. As shown in table 9.15, at stage two, when the babies were aged about four months, two in five (37%) mothers in the United Kingdom who gave their baby solids gave a drink containing vitamin C at the same meal. Results were broadly similar by country.

Compared with 1995, there has been a drop in the proportion of mothers giving vitamin C drinks to their four-month-old babies who had begun on solids; in 1995 the level was 47%. Similar shifts are also evident in each country. This tallies with the findings reported in Chapter 8 which showed a general reduction in the provision of drinks such as fruit juice, with more mothers giving plain water instead.

Table 9.15

Table 9.15

Proportion of mothers who gave drinks containing vitamin C with solids at stage 2, by country (1995 and 2000)

		ingland Wales	S	cotland		orthern Ireland	Ki	United ngdom	
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	
Yes, usually	21	17	23	18	24	19	21	17	
Yes, sometimes	26	20	28	23	26	21	26	20	
No, never	53	63	50	59	50	60	53	62	
Base (Stage 2 mothers who	Base (Stage 2 mothers who gave their babies solid food at stage 2)								
	4431	4336	1827	1884	1444	1441	5002	7624	

Using milk to mix food

Mothers who had introduced solid foods were asked if they used milk to mix up their babies' food and, if so, which type of milk they used. At each of stages two and three, seven out of ten mothers had used milk to mix up food (71% at stage two, 69% at stage three).

At stage two, when the babies were around four months old, the majority of mothers using milk to mix food used infant formula milk (89%). One in twenty (6%) used expressed breastmilk, with only a small proportion using cow's milk (3%) or some other type of milk (2%). By stage three, when babies were around nine months old, cow's milk was used in two-thirds (69%) of cases where milk was used, with a quarter (27%) using infant formula milk and one in five (22%) follow-on formula milk.

Compared with 1995, fewer mothers at either stage used cow's milk to mix their babies' food – at that time 8% at stage two and 74% at stage three of those using milk used cow's milk when mixing food. Follow-on formula milk was more commonly used at stage three in 2000 than in 1995 (22% compared with 17%).

Mothers in Northern Ireland who used milk to mix baby food were more likely than those in other countries to use cow's milk at both stages: 7% at stage two, and 75% at stage three (compared with 3% and 69% of other mothers respectively). They were also less likely to use follow-on formula milk at stage three (13% compared with 22% of mothers in other countries using milk to mix food).

Table 9.16

Although 27% of breastfeeding mothers who used milk to mix solid foods used expressed breast milk at stage two to do so, nearly two thirds (63%) used infant formula milk. Similarly, at stage three only 9% of breastfeeding mothers mixing solids with milk used breast milk. The majority used cow's milk (67%), but infant formula and follow-on formula milk were also both more commonly used than breastmilk.

Table 9.17

9.3 Influences on the choice of solid food

In the stage two questionnaire, mothers who gave solids to their babies were asked what influenced their decision on what type of solid food to give. This was an open question without any prompting or precoding, and many mothers mentioned more than one factor – although one in ten (11%) did not answer this question. Table 9.18 shows the answers grouped as being related to nutritional and dietary factors, or other factors related to the mother or baby. Only answers given by at least 5% of mothers in the base are recorded.

Type of milk used to mix up food at stages 2 and 3, by country (2000)

	England & Wales	Scotland	Northern Ireland	United Kingdom
	%	%	%	%
4-5 months:				
Cow's milk	3	4	7	3
Infant formula milk	89	88	90	89
Expressed breast milk	6	8	4	6
Something else	2	2	2	2
Base (Stage 2 mothers who used milk				
to mix up their babies' food)	3088	1268	994	5399
8-9 months:				
Cow's milk	69	71	75	69
Infant formula milk	27	26	25	27
Follow-on formula milk	23	21	13	22
Expressed breast milk	3	4	1	3
Something else	2	2	2	2
Base (Stage 3 mothers who used milk				
to mix up their babies' food)	2796	1218	1015	4942

Table 9.17

Type of milk used to mix up food at stages 2 and 3, by feeding method (United Kingdom, 2000)

	Breastfeeding*	Not breastfeeding	All mothers
	%	%	%
4-5 months:			
Cow's milk	4	4	3
Infant formula milk	63	96	89
Expressed breast milk	27	*	6
Something else	2	2	2
Base (Stage 2 mothers who used			
milk to mix up babies' food)	1210	4123	5399
8-9 months:			
Cow's milk	67	69	69
Infant formula milk	18	28	27
Follow-on formula milk	26	21	22
Expressed breast milk	9	2	3
Something else	4	2	2
Base (Stage 3 mothers who used			
milk to mix up babies' food)	760	4176	4942

Percentages do not add up to 100% as some mothers gave more than one answer *Includes mothers who breastfed and gave manufactured baby milk

One in four (26%) referred to nutritional value of the food in general terms. However, some mothers were more specific, the most common mentions being sugar content (17%), vitamins (12%), gluten (11%) and salt (10%). In terms of dietary factors more generally, one in six (13%) mentioned the importance of fresh fruit or vegetables in their babies' diet, and one in ten (9%) mentioned organic produce.

Of the non-nutritional factors, most were related to the baby's rather than the mother's needs. Variety of flavours was in fact the most commonly mentioned factor of all for stage two mothers, with 29% giving this answer. Variety of textures was mentioned by 5%, with 31% giving at least one of these two answers. The next most common non-nutritional factor was baby's preferences, mentioned by one in six (16%). One in ten said it was important to have foods that were right for the baby's age (12%), and a similar proportion saying they chose foods with good flavour (10%).

At the stage three questionnaire, mothers who gave solids were asked if they avoided giving their baby foods that contained particular ingredients, and if so which and why. Mothers recorded the ingredients and reasons, and the answers were coded. Half (47%) of stage three mothers across the United Kingdom who had begun their baby on solids said they avoided particular ingredients. This is similar to the level seen in 1990 (51%), after an increase in 1995 when 59% of British mothers said they avoided ingredients (comparable figure for 2000 is still 47% when restricted to Great Britain only).

Table 9.18

Proportion mentioning		Proportion ment		
	%		%	
Nutritional factors:		Factors related to baby:		
Nutritional value (general)	26	Variety of flavours	29	
Sugar content	17	Baby's preferences	16	
Vitamin content	12	Baby's age	12	
Gluten content	11	Flavour/ not too bland	10	
Salt content	10	Consistency	7	
Additives	8	Baby's appetite	7	
Mineral content (not salt)	5	Variety of textures	5	
		Number of meals a day	5	
Other dietary factors:				
Fresh fruit/ vegetables	13	Factors related to mothers:		
Organic/ home-grown	9	Ease of preparation	7	
Prefer home-made food	8	What family is eating	5	
		Brand name	5	
		Advice received	5	
Base (Stage 2 mothers giving solids)	7624	Base (Stage 2 mothers giving solids)	7624	

Table 9.18 What mothers took into account when deciding what solid foods to give at stage 2 (United Kingdom 2000)

This trend is linked to the high profile of BSE at the time of the 1995 survey, when avoidance of beef was relatively common. In 1995, of all mothers avoiding ingredients in their babies' diet at about eight months, two-fifths (40%) avoided beef compared with only one in twenty (5%) in 2000.

Table 9.19

Table 9.19

Ingredients avoided by mothers who gave solid food at stage 3 (Great Britain 1995, United Kingdom, 2000)*

	1995	2000
	%	%
Added ingredients:		
Sugar	40	33
Salt	25	33
Additives	9	8
Colourings	4	3
Preservatives	2	2
Fat	4	1
Flavourings	-	1
Other additives	2	2
Specific foodstuffs:		
Nuts	14	30
Eggs	12	15
Beef	40	5
Spices	7	2
Dairy produce generally	7	9
Meat generally		8
Honey		6
Seafood/ fish	- 37**	5
Gluten/ wheat	- 37	5
Particular fruits or vegetables		5
Sweets/ chocolate		2
Other specific foodstuffs		4
Base (Mothers at stage 3 avoiding certain ingredients)	2940	3385
Percentages do not add up to 100% as some mothers gave	e more than one answer	

* Note that 1995 results based on Great Britain

** Responses not available separately for 1995

The other types of ingredients avoided are presented in Table 9.20 for the two survey years. Sugar and salt were the most commonly avoided ingredients (both ingredients avoided by 33% of all mothers), followed by nuts (30%) and eggs (15%). Compared with 1995, the proportions of mothers avoiding salt and nuts has increased (from 25% to 33% and from 14% to 30% respectively). The latter finding is likely to be related to the higher profile of nut allergies over recent years.

Mothers who avoided foods were asked their reasons for this. The most common reason given for avoiding particular ingredients was concern about food allergies, mentioned in a third of all cases of avoidance (35%). This has risen in recent years, and in particular has doubled since 1990, from around one in twelve mothers who gave solids in the 1990 survey (based on mothers in Great Britain). One in four (26%) of those avoiding ingredients gave a general answer about it not being beneficial, and one in five (20%) a

general answer about it being harmful. A further one in five (18%) said the ingredients they avoided were bad for the teeth, and one in ten (10%) said it was because of media publicity.

Table 9.20

Table 9.20

Reasons for avoiding particular ingredients at stage 3 (Great Britain 1995, United Kingdom, 2000)*

	1995	2000
	%	%
Allergies	26	35
Not beneficial	44	26
Harmful	20	20
Bad for teeth	25	18
Media publicity/ scares	42	10
On advicet		7
Avoid sweet tooth	5	6
Digestion problems†		5
Hyperactivity	4	2
Other reasons relevant to diett		8
Other reasons not relevant to diet†		8
Base (Mothers at stage 3 avoiding certain ingredients)	2873	3385
Percentages do not add up to 100% as some mothers gave n	nore than one answer	

* Note that 1995 results based on Great Britain

† Data not available for 1995

9.4 **Difficulties with weaning**

The COMA Report¹ recommends that 'by the age of one year the diet should be mixed and varied'. Mothers who gave solid food to their baby were asked in the stage three questionnaire to describe the variety of food their baby (then aged about eight to nine months) generally ate, using a set of precoded answers. Two thirds (68%) said that their baby ate most things, and only one in twenty (5%) described their baby as a fussy eater.

Mothers in higher occupations were more likely to describe their baby as eating a greater variety of foods compared with mothers who had never worked (72% compared with 61%), and were consequently less likely to describe their baby as a fussy eater (3% compared to 9%).

Table 9.21

Variety of solid food baby generally eats at stage 3, by mother's socio-economic group (NS-SEC) (United Kingdom, 2000)

	-	Intermediate occupations	Lower occupations	Never worked	Unclassi- fied	All mothers
	%	%				
Eats most thing Eats a reasonab		66	68	61	69	68
variety of things	5 25	29	26	30	25	26
Fussy or faddy e	ater 3	4	6	9	5	5
Base (Babies giv solids at Stage 3		1544	1957	750	631	7180

When their babies were about nine months old, mothers who had introduced solid foods were asked if they had found it difficult weaning their baby onto solids. One in ten (10%) had experienced difficulties, a proportion that did not vary significantly between the constituent countries of the United Kingdom (10% in England and Wales and Scotland, 9% in Northern Ireland).

Mothers whose baby had been born at a low birthweight (under 2500g) were slightly more likely than those whose babies were born at 3500g or over to have had difficulties weaning (14% compared to 9%). Mothers of ethnic minority backgrounds were considerably more likely to have had problems weaning their baby onto solids. In particular, a quarter (25%) of Black mothers and a fifth (21%) of Asian mothers reported problems compared with 9% of white mothers. However, these two trends will be related as Black, Asian and mothers from other ethnic backgrounds had babies of lower average birthweights when compared with white mothers.

Table 9.22

Mothers who had encountered difficulties with weaning onto solids were asked what type of problems they had faced, by presenting a set of precoded answers. The most frequently cited problem in this group was that the baby would only take a limited range of foods (52% of mothers who had found weaning difficult). Other difficulties were baby refusing all solids (24%), preferring drinks to food (22%), being disinterested in food (22%), and vomiting (18%).

Table 9.23

Proportion of mothers who had found it difficult weaning their baby onto solid food by baby's birthweight and ethnicity (United Kingdom, 2000)

	Proportion reporting difficulties	Base (Stage 3 mothers whose babies had been given solid food
Baby's birthweight		
Less than 2500g	14	379
2500-2999g	11	1044
3000-3499g	10	2380
3500+	9	3338
Mother's ethnic group		
White	9	6774
Asian	21	105
Black	25	71
Mixed/Other**	15	84
All mothers*	10	7180
* Includes some mothers for whom ethnicity and/o	r birthweight not recorded	

** These categories combined due to small base sizes

Table 9.23

Difficulties with weaning reported by mothers at stage 3 (United Kingdom 2000)

	%
Baby would only take certain solids	52
Baby would not take solids	24
Baby prefers drinks to food	22
Baby was disinterested in food	22
Baby vomiting	18
Some other reason	6
No answer given	3
Base (Mothers giving solid food at stage 3 who found it difficult to wean their baby)	727
Percentages do not add up to 100% as some mothers gave more than one answer	

- ¹ Department of Health. Weaning and the Weaning Diet, Report of the Working Group on the Weaning Diet of the Committee on Medical Aspects of Food Policy. HMSO (London: 1994)
- ² For results before 1995, see Foster K, Lader D, Cheeseborough S Infant Feeding 1995, HMSO (London, 1997)

Appendix I Survey Methodology

1.1 Sample design

The sample design for the Infant Feeding Survey in 2000 replicated the design from 1995 and previous years. In order to obtain a sufficiently large sample in Northern Ireland and Scotland, births in these countries were given a greater chance of selection than in England and Wales. The aim was to achieve sample sizes as obtained in 1995, and detailed below.

England & Wales	5200
Scotland	2150
Northern Ireland	1750
United Kingdom	9100

The 2000 survey continued the practice, established in 1985, of over-sampling births to mothers in the following social class categories:

- social class V (as defined by current or last occupation of husband or partner)
- mothers who didn't register a partner on the birth certificate
- mothers whose social class could not be classified, either because of inadequate information about the husband or partner's job or because he had never worked

Previous surveys have shown a strong association between social class and infant feeding practices and over-sampling ensures that there are sufficient numbers for analysis as a separate group if necessary. Births to women in these categories were given twice the chance of selection of other births.

1.2 Drawing the sample in each country

The samples in each country were selected from births occurring in a given range of dates between August and October 2000 and were designed to be representative of all births in these periods. The number of days chosen varied between countries, and depended on the estimated number of births in each social class group which would be registered within the sampling period and other details of the sampling scheme in each country. The time periods were almost identical to those used in 1995, and are listed below.

England & Wales	August 19th to September 26th
Scotland	August 19th to September 6th classes I-IV
	August 19th to September 22nd other births*
Northern Ireland	August 12th to 19th October

* Due to administrative difficulties, the sampling was slightly different in Scotland than in other countries in 2000. This was not the original intention, however it ensured the correct sample profile was maintained and does not affect the consistency of the findings between countries.

The sampling frame in each country consisted of all registrations for births on the selected dates that were received by the appropriate registration office¹ within a specified sampling period up to a maximum of eight weeks after the birth.

England and Wales

A two-stage design was used in England and Wales. The 100 first-stage units were a sample of registration sub-districts or groups of smaller sub-districts. As far as possible these were the same sub-districts as used on the previous Infant Feeding Surveys. The original sub-districts used in the first survey in 1975 were selected with probability proportional to the number of births. At each subsequent survey, variation in birth rates necessitated some change to the selected sub-districts. The criteria used to determine which districts were dropped and which districts replaced them is called the Keyfitz procedure². This method aims to ensure a probability of selection of each sub-district that reflects changes in birth rates while minimising the number of sampling units that need to be changed.

The registration districts selected are listed in Appendix IV.

The 100 birth registration sub-districts selected for the sample record varying amount of births and in total too many births for inclusion in the sample. Consequently a randomly selected proportion of births (varying according to the anticipated number of births in each birth district) were selected on an ongoing basis during the birth period; these were then coded with social class classifications.

All births to fathers of Social class V, father not known and not classified were then part of sample along with one in two births to Social Class I-IV. This produced a total of 7382 births in England and Wales.

Scotland

In Scotland a similar sampling approach was taken to that used in England and Wales. However, because there are fewer births in these countries the birth period was chosen so that all births to mothers in Social class V, those with no partner or mothers whose social class could not be classified were selected, and one in two of all other births was then selected. This yielded 3113 births in Scotland.

Northern Ireland

The intention was that the sample in Northern Ireland would be drawn in the same way as Scotland – i.e. all births to fathers of Social class V, father not known and not classified were to be part of sample along with one in two births to Social Class I-IV. However, the birth rate for the sampled period in Northern Ireland fell slightly below our expectations. Therefore to ensure we met our sample size requirements, we increased the sampling fraction of births to social classes I to IV to three-fifths (59%) of all births rather than one in two (50%). In total, 2617 births were sampled in Northern Ireland

1.3 Questionnaire design

The questionnaires were based on the 1995 versions, although a small number of amendments were. In summary, the following additions and amendments were made:

Stage 1:

Addition of questions about:

- sleeping position of baby
- knowledge of the health advantages of breastfeeding
- whether mothers felt any pressure from health professionals regarding how they should feed their baby
- ethnic background

Smoking module revised to improve the reliability of results and to provide more detail on smoking and pregnancy (see section I.4).

Stage 2:

 New module on childcare and employment plans and how this affected feeding of baby

Stage 3:

As for Stage 2

In Stages 2 and 3, two versions of the questionnaire were used depending on whether the mother was still breastfeeding at the time of the previous interview. This allowed the questionnaire to be more tailored to mothers' individual circumstances and avoided the use of complex routing.

At Stage 1, in order to test out the new version of the questionnaire, a small-scale pilot was conducted among 10 mothers. Mothers participating in the pilot were recruited from health visitor clinics in London Paddington and Birmingham. Mothers were then asked to complete the questionnaire in the presence of a research executive and any problems regarding the wording or routing were noted. A mixture of breast and bottle-feeding mothers were included in the pilot across a range of social class groups.

At Stage 2, where changes to the questionnaire were less significant, a smaller pilot was conducted among 5 mothers recruited via contacts known to the research team. A similar scale pilot was conducted for Stage 3.

1.4 Note on changes to smoking module

The smoking questions included in the 1995 Infant Feeding Survey were the same as those asked in the 1985 and 1990 surveys. Interest in smoking and pregnancy has increased since 1985 and a review of these questions suggested that they did not indicate respondents' smoking status during pregnancy in sufficient detail.

Prior to 2000, any mother who had smoked cigarettes in the two years before the survey (i.e. about a year before conception) was asked about the average number of cigarettes smoked before, during and after pregnancy. The questions on smoking used in the 2000 Infant Feeding Survey were changed so that the emphasis was on changes in smoking behaviour, rather than simply changes in cigarette consumption. It was felt that the revised questions indicated more reliably mothers' smoking behaviour in pregnancy.

The Tobacco White Paper "Smoking Kills" was published in December 1998 and contains the government's anti-smoking strategy. The White Paper highlighted smoking among pregnant women as a key area, and included the target:

"To reduce the percentage of women who smoke during pregnancy from 23% to 15% by the year 2010; with a fall to 18% by the year 2005".

This target was set using figures from the 1995 Infant Feeding Survey as a baseline. Progress towards the target is being measured using the 2000 survey. However, the changes in the questions on smoking behaviour between the 1995 and 2000 surveys mean that the results from the 2000 survey are not robustly comparable with the 1995 survey. Therefore, progress against the above target can only be estimated from the 2000 figures.

1.5 Fieldwork procedures

Stage 1

For the first stage of fieldwork, the approach to mothers was made through the respective Registration Offices in the different countries. Sampling was conducted by ONS for England & Wales, the GRO in Scotland for the Scottish sample and by NISRA for the Northern Ireland sample. In the case of England, Wales and Scotland, all printing and packing was done by BMRB although ONS handled the despatch as the name and address of the mother could not be released to a survey organisation at this stage. In Northern Ireland, the printing, packing and despatch was carried out exclusively by CSU.

The first questionnaire was sent out during October/November/December 2000 to all mothers included in the initial sample, with the aim of contacting mothers when their babies were between six and ten weeks old (although after a lengthy reminder period, in fact some babies were older than this).

In England, Wales and Scotland, sampling was conducted on a weekly basis and despatch was organised in a staggered fashion such that for each sampling week, questionnaires were aimed to first reach mothers at the time when their baby was approximately 6 weeks old. Although the majority of births were registered within these 6 weeks, an additional 3 sampling weeks were added at the end of fieldwork in order to "mop-up" the late-registered births. This meant that the main despatch took place in 8 phases. An additional mailout phase was also added at the end to account for the extra births sampled in the extended extraction period for Scotland.

In Northern Ireland, the sampling and despatch was phased across 4 birth periods.

The initial mailing included a letter from ONS/GRO/CSU, a pre-serial numbered questionnaire and reply-paid envelope for arrival at BMRB. All outgoing malings were sent first-class with returns costed at second-class. Booking-in of questionnaires was undertaken by BMRB's data capture department.

A blanket reminder was sent out after one week which comprised a reminder letter targeted to all mothers who had not yet responded. A second full-pack reminder was sent out after a further 2 weeks for all those who had still not responded, with a further reminder after an additional 2 weeks. The reminders were sent out in a staggered fashion, following the staggered nature of the sampling and initial despatch. Unlike stages 2 and 3, there was no interviewer follow-up at Stage 1 as names and addresses of non-responding mothers could not be passed to BMRB.

At the end of the wave 1 questionnaire, mothers were asked to give forwarding contact details if they were planning to move and address details were updated in time for the Wave 2 mailout.

The total despatch period lasted between 27 October and 12 January.

Stage 2

Names and addresses of all mothers responding to stages 1 in England, Wales and Scotland were provided by ONS to BMRB. In January 2001, when the babies were approximately four to five months old, a second stage questionnaire was sent to all mothers who had completed the first questionnaire (apart from a small number of mothers who had specifically asked not to be contacted again). BMRB handled the mailout for England, Wales and Scotland while CSU continued to handle the mailout for Northern Ireland.

Mothers who had not replied after two weeks were sent a reminder letter, and mothers still not responding after a further 2 weeks were sent another copy of the questionnaire and a reply-paid envelope. Finally, an attempt was made to obtain a response at the second stage by sending an interviewer to contact mothers who had not replied to the various letters.

Despatch for the postal survey took place in two phases (the second phase including the later respondents to Wave 1). The total despatch period lasted between 9 January and 4 March. The interviewer fieldwork stage covered the period from 5 March to 27 April.

Stage 3

In June 2001, when the babies were approximately eight to nine months old, a third questionnaire was sent to all mothers who had completed the second questionnaire. The fieldwork procedures were the same as at Stage 2. The total despatch period lasted between 4 June and 27 July. The interviewer fieldwork stage covered the period from 30 July to 12 August.

I.6 Response

Response at stage 1

Table I.1 gives details of response by country at Wave 1. Overall, 72% of the original sample of women responded to the first stage questionnaire, this ranging from 68% in Northern Ireland to 74% in England and Wales.

Efforts were made by ONS to identify any baby deaths among the sampled births before sending out the first questionnaire and these cases were removed from the sample before despatch. However, mothers receiving the questionnaire whose baby was no longer with them, for example if the baby had died, been adopted or was in hospital, were not expected to complete a questionnaire but were asked to return the form so that they would not be contacted again. In total, 45 mothers were identified in this category.

There were 53 refusals to participate which included questionnaires returned with an explicit refusal or a refusal via telephone. A further 74 questionnaires were returned blank or incomplete (only the first 2-3 questions answered).

Response rates and non-response at first stage of survey (Oct-Dec 2000)

Table I.1

		England & Wales		Scotland		rthern reland	United Kingdom	
	No.	%	No.	%	No.	%	No.	%
Initial sample	7382	100	3113	100	2617	100	13112	100
Total response	5440	74	2274	73	1778	68	9492	72
Total non-response	1942	26	859	27	839	32	3620	28
Baby not with mother	33	*	5	*	7	*	45	*
Refusal	33	*	18	1	2	*	53	*
Incomplete questionnaire	48	1	21	1	5	*	74	1
Post returned/not delivered	4	*	4	*	0	0	8	*
No reply	1824	25	811	26	825	32	3440	26

Table I.1

Response	at	Stage	2

The issued sample at Stage 2 comprised all mothers responding at Stage 1. Response at the second stage of the survey was higher than at the first stage, ranging from 86% in Scotland to 91% in Northern Ireland. The improvement in response rate was largely attributable to the interviewer follow-up of non-respondents. The interviewer follow-up added 17% to response rates overall.

Table I.2

Table I.2

Response rates and non-response at second stage of survey (Jan-March 2001)

		igland Wales	Sco	otland		rthern reland		United Igdom
	No.	%	No.	%	No.	%	No.	%
Second stage sample	5440	100	2274	100	1778	100	9492	100
Total response	4729	87	1953	86	1617	91	8299	87
Due to postal enquiry	3822	70	1592	70	1223	69	6638	70
Due to interviewer contact	907	17	361	16	394	22	1661	17
Total non-response	711	13	321	14	161	9	1193	13
Not issued - refused at first stage	12	*	7	*	1	*	20	*
Not issued – other reason*	24	*	23	1	0	-	47	*
Baby no longer with mother	10	*	3	*	0	-	13	*
Refusal	35	1	10	*	0	-	45	*
Post returned/not delivered	36	1	20	1	0	-	56	1
Incomplete questionnaire No reply from postal stage and	9	*	2	*	0	*	11	*
interviewer unable to contact	585	11	256	11	160	9	1001	11

* A total of 47 mothers who responded at Stage 1 were excluded from the Stage 2 mailout. This is accounted for by 25 questionnaires returned late at Stage 1, and there was insufficient time for addresses to be obtained from ONS; and 22 cases where we were unable to classify mothers as either a breast or bottle feeder and therefore could not establish which version of the Stage 2 questionnaire should be sent.

Response at Stage 3

The issued sample at Stage 3 comprised all mothers responding at Stage 2. At Stage 3, the total response was 88%. Once again, this high response rate was largely attributable to the interviewer stage which added 14% to the response rate.

Cumulative response rates

Since mothers were only contacted in later stages of the survey if they had responded at the previous one, the effect of non-response at each stage is cumulative. The effective response rate at each stage should therefore be calculated as a proportion of the initial sample. Questionnaires were received at the second stage from 63% of the original sample and this proportion fell to 55% at the third stage.

Table I.4

Table I.3

Table I.3

Response rates and non-response at third stage of survey (June-July 2001)

		England & Wales		Scotland		Northern Ireland		United Igdom
	No.	%	No.	%	No.	%	No.	%
Second stage sample	4729	100	1953	100	1617	100	8299	100
Total response	4112	87	1718	88	1437	89	7267	88
Due to postal enquiry	3563	75	1463	75	1097	68	6123	74
Due to interviewer contact	549	12	255	13	340	21	1144	14
Total non-response	617	13	235	12	180	11	1032	12
Not issued - refused at second stage	5	*	1	*	4	*	10	*
Baby no longer with mother	5	*	1	*	0	-	6	*
Refusal	16	*	4	*	0	-	20	*
Post returned/not delivered	70	1	42	2	0	-	112	1
Incomplete questionnaire No reply from postal stage and	8	*	10	1	0	-	18	*
interviewer unable to contact	513	11	177	9	176	11	866	10

Table I.4

Summary of response at stages 1, 2 and 3 by country

		England & Wales		Scotland		Northern Ireland		United Kingdom	
	No.	%	No.	%	No.	%	No.	%	
Initial sample	7382	100	3113	100	2617	100	13112	100	
Response at Stage 1	5440	74	2274	73	1778	68	9492	72	
Response at Stage 2	4729	64	1953	63	1617	62	8299	63	
Response at Stage 3	4112	56	1718	55	1437	55	7267	55	

Comparisons of response rate with 1990 and 1995 survey

Table I.5 shows the response rates for the last three survey years for Stage 1, and for 1995 and 2000 for the later stages. As seen from Table I.5, the response in 2000 at Stage 1 was similar to that obtained in 1995 for England & Wales, and Scotland. In Northern Ireland, the response was slightly lower in 2000 compared with 1995 (68% compared to 72%). Response rates to Stage 1 in 1990 were considerably higher. This is largely explained by the fact that at this time, non-responding mothers were able to be contacted by an interviewer in the field, whereas changes in the data protection regulations did not allow this final follow-up from 1995 onwards. However, postal response was also slightly lower in 1995 and 2000 compared with 1990, and reflects a growing trend for declining response rates to government surveys over the past 10 years or so.

In later stages, the response rates at Stages 2 and 3 in England & Wales and Scotland were similar in 2000 to those obtained in 1995. However, although the overall response rate is similar, there were differences in the proportion of achieved interviews that originated from the postal and interviewer stages. In 1995, in England and Wales, 79% of mothers responding to Stage 1 had responded to Stage 2 by the end of the postal survey, and the

interviewer stage picked up only 6% more respondents. However, in 2000, the mothers were less responsive to the postal stage (70% in England and Wales) and the interviewer stage therefore picked up a higher proportion of mothers (17% in England and Wales).

Response in Northern Ireland was slightly lower at all stages in 2000 compared with 1995, resulting in a lower cumulative net response by the end of the three stages (55% compared with 63%).

Table I.5

Table I.5

Response rates at all three stages of the survey, 1990 to 2000

	En	gland &	Wales		Scotland			Northern Ireland		
	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	
Stage 1										
Response to postal	80	75	74	76	73	73	75	72	68	
Response to interviewer*	9	n/a	n/a	9	n/a	n/a	14	n/a	n/a	
Total response rate	89	75	74	85	73	73	90	72	68	
Base:	6467	6972	7382	2597	2908	3113	2041	2434	2617	
Stage 2										
Response to postal		79	70		79	70		77	69	
Response to interviewer		6	17		5	16		17	22	
Total response rate		86	87		84	86		94	91	
Base:		5240	5440		2137	2274		1753	1778	
Stage 3										
Response to postal		82	75		79	75		75	68	
Response to interviewer		9	12		9	13		18	12	
Total response rate		91	87		89	88		93	89	
Base:		4490	4729		1798	1953		1653	1617	
Cumulative response										
Initial sample		100	100		100	100		100	100	
Response at Stage 1		75	74		73	73		72	68	
Response at Stage 2		64	64		62	63		68	62	
Response at Stage 3		58	56		55	55		63	55	

* Not applicable in 1995 and 2000, as there was no interviewer-administered fieldwork at Stage 1

1.7 Re-weighting the results

Various weights were applied to data from the first and subsequent stages of the survey. These compensated for differences in the probability of selection for mothers in different social class groups and different countries, and for differential non-response at each stage of the survey. The stages of weighting were as follows: 1. To correct for over-sampling of mothers with partners in Social Class V, whose social class was "other" or unclassifiable or where no partner details were recorded at registration

In England, Wales and Scotland, babies born to mothers in the above groups were given twice the chance of selection compared to babies born to mothers whose partner was classified as social class I-IV. Thus babies born to the above categories were given a weight of 0.5.

In Northern Ireland, the proportion of mothers with a partner classified in social class I-IV sampled was increased to 59% (instead of 50%) compared to 100% of all births in the other categories. This was to correct for a lower-than-anticipated birth count in the sampling period. Thus, all births in Social Class V, other/unclassified and father not present were given a weight of 0.59.

2. To correct for differential non-response by social class group at the first stage of the survey

The overall response rates to the first stage were 74% in England & Wales, 73% in Scotland and 68% in Northern Ireland. Information on social class of mother's partner, based on registration data, was made available for the full sample, including non-respondents. Analysis showed that there was a consistent pattern within each country of declining response through the range from Social Classes I to V (see Table I.6). This was corrected by weighting cases in each social class group within country by the inverse of the response rate for the group.

3. To correct for over-sampling of births in Scotland and Northern Ireland

As births in Scotland and Northern Ireland were given a greater chance of selection than those in England & Wales, they were re-weighted to give the correct balance when showing results for the United Kingdom. The weights were derived by comparing the proportion of sampled births in each country with the proportion of all births in 2000 for the sampling periods in each country3. The resulting weighting factors were 0.189 for births in Scotland and 0.173 in NI (and 1.00 in England & Wales).

4. To correct for differential response by initial feeding method and by country at later stages of the survey

The profiles of several key variables were compared for the second and third stages of the survey against the first stage, and the results were shown to be very similar. A slight bias by initial feeding method was noted at each stage (see Tables I.7 and I.8), and the data were subsequently weighted to correct for this.

The weighted sample

As in 1995, when results for each country are shown separately, they are weighted only to compensate for differential non-response and the over-sampling of lower social class groups. When results are based on the United Kingdom as a whole, then the additional weighting for to compensate for over-sampling in Scotland and Northern Ireland is also applied.

Table I.6

First stage response rates by social class of husband/partner at registration and by country

England &	Wales	Scotland	Northern Ireland
		Response rate (%)	
T	85	85	82
II	82	82	80
IIIN	77	83	77
IIIM	76	71	71
IV	71	75	67
V	66	69	58
Other/unclassified/no husband/partner recorded	65	58	50
All mothers	74	73	68

Table I.7

Response to Stage 2 by initial method feeding and country

	England & Wales	Scotland	Northern Ireland
		Response rate (%)	
Breastfed	88	87	93
Not breastfed	84	84	89
All mothers	87	86	91

Table I.8

Response to Stage 3 by initial method feeding and country

	England & Wales	Scotland	Northern Ireland
		Response rate (%)	
Breastfed	89	90	91
Not breastfed	83	84	87
All mothers	87	88	89

- ¹ Registration Division of ONS for England and Wales and the General Register Offices in Scotland and Northern Ireland
- ² Nathan Keyfitz. Sampling with probabilities proportional to size: adjustment for changes in probabilities. Journal of the American Statistical Association 46 (1951) p105-109. This techniques was applied as strictly as possible, however it should be noted that there has been significant reorganisation of birth districts between 1995
- ³ Excluding still births and additional births resulting from multiple births

Appendix II Composition of the 2000 sample

II.1 Comparison of the sample with population figures

Tables II.1 to II.3 show the composition of the weighted sample at Stage 1 for sex of baby, age of mothers and social class as compared with population data where this data has been available. The population figures refer to all live births registered in 2000.

On the whole, the figures show that the sample data is very similar in profile to the population data for these three attributes. Table II.1 shows that the sex of babies is similar for both sample and population, although the sample in England and Wales tended to slightly over-represent boys compared with the population (53% compared to 51%).

Table II.1

Distribution of the population and the sample by sex of the baby and country (2000)

	England	d & Wales		Scotland	Northe	ern Ireland
	Population	Survey	Population	Survey	Population	Survey
	%	%	%	%	%	%
Male	51	53	51	50	52	51
Female	49	47	49	50	48	48
Base:	604,441	5441	53,076	2274	21,512	1778

Within all countries, the distribution of the sample for age of mother is very similar to that found in the population of all births for these countries. The age profile of the sample in England and Wales is virtually identical to the population of all births, although in Scotland and Northern Ireland there is a very slight over-representation of mothers aged 30 or over compared with the population (49% compared with 47% in Scotland, and 49% compared with 46% in Northern Ireland).

	England	d & Wales		Scotland	Northern Ireland				
	Population %	Survey %	Population %	Survey %	Population %	Survey %			
Under 20	8	7	9	6	8	6			
20-24	18	18	17	16	17	15			
25-29	28	28	28	29	29	30			
30-34	30	30	31	31	30	33			
35 or over	17	16	16	18	16	16			
All aged 30+	46	46	47	49	46	49			
Base:	604,441	5441	53,076	2274	21,512	1778			

Table II.2

Distribution of the population and the sample by age of mother and country (2000)

The population figures for social class are not based on all live births in 2000, but instead on the social class details of all births in the sampled period. The sample data (which is based on questionnaire responses) classifies a greater proportion of mothers to no partner or partner unclassified (19% in the UK compared with 13% of all births in the sample period which is based on social class recorded from registration records). However, once this difference is taken into account, the social class profiles of population and sample are very similar

Table II.3

Distribution of the population and the sample by social class as defined by current or last occupation of husband or partner

	England	& Wales	2	cotland	Northern	Ireland	United K	ingdom
	Population* %	Survey %	Population %	Survey %	Population %	Survey %	Population %	Survey %
&	34		31	31	27	26	34	32
IIINM All non-man	9 ual 43	9 41	9 40	9 41	11 38	10 36	10 44	9 40
IIIM	25	26	28	26	31	29	26	26
IV & V All manual	18 43	15 40	22 50	16 42	18 49	14 43	18 44	15 41
No partner/								
unclassified	13	19	10	18	13	21	13	19
Base	64250	5441	5121	2274	3947	1779	73318	9492

* In England & Wales, only 10% of births are coded to social class so the "population" data is in fact based on a 10% sample

II.2 Details of the 2000 sample

The main changes in sample composition between 1995 and 2000 are highlighted in Chapter 1. These were:

- An increase in the proportion of mothers aged 30 or over;
- An increase in the proportion of mothers educated to higher education level (aged 19+);

These changes are a continuation of trends evident since 1990. Tables II.4 to II.11 give further details of the composition of the 2000 sample compared with previous surveys (1990 and 1995).

The age of mothers both nationally and in the sample, has increased since 1995. Table II.4 shows that this increase was evident for both mothers of first and later births.

Table II.4

Distribution of the sample by mother's age, for first and later births (1990, 1995 Great Britain, 2000 United Kingdom)*

		First	t births		Later	births		All ba	bies**
	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %
Under 20	13	12	13	2	1	1	7	6	7
20-24	31	26	23	20	14	13	25	19	18
25-29	36	34	30	39	34	27	37	34	29
30-34†	50	22	24	55	34	36	57	28	31
35 or overt		6	9		17	22		12	16
All aged 30 or over	20	28	33	39	50	49	31	40	47
Base:	2430	2271	4448	2983	2745	5044	5413	5017	9492

* Note that 1990 and 1995 data based on GB and 2000 based on UK

** Includes some cases for whom exact birth order not known

+ Not identified separately in 1990* Not applicable in 1995 and 2000, as there was no interviewer-

administered fieldwork at Stage 1

Table II.5 shows the relationship between social class and mother's age for mothers of first babies only. There is a consistent pattern of older mothers in non-manual social class groups. Thus, in 2000, 53% of mothers in social classes I and II were aged 30 or over compared with 24% of mothers in classes IV and V. The increase in age of mothers between 1995 and 2000 was found in every social class group except IIIM. However, this increase was concentrated to a greater extent among mothers in higher social classes. For example, between 1995 and 2000 the proportion of mothers aged 30 or over in social classes I and II rose from 44% to 53%, although within social classes IV and V, the increase was only from 21% to 24%.

Table II.5

Age of mothers of first babies by social class as defined by current or last occupation of husband or partner (1990,1995 Great Britain, 2000 United Kingdom)*

			I & II			IINM			IIIM			IV & V
	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %
Under 20	3	2	2	9	5	6	11	7	10	18	10	17
20-24	19	14	11	30	20	19	34	28	26	44	32	29
25-29	46	40	35	41	44	37	39	38	34	27	37	30
30-34†		35	37		26	29		22	22		16	18
35 or ove	ert	10	16		6	9		5	7		5	6
All aged i	30											
or over	34	44	53	21	30	38	16	28	29	11	21	24
Base:	638	712	1350	201	177	416	684	501	1074	346	293	630
* Note th † Not ide					n GB and	d 2000 b	ased on	UK				

Mothers who complete their education later tend to delay having their first baby until a later age. Thus 46% of mothers who were educated beyond 18 were aged 30 or over when they had their first child compared with only 24% of mothers educated to 16 or below. The overall increase in age of mother between 1995 and 2000 was seen in all educational groups although the increase was most marked in the middle educational age category.

Table II.6

Age of mothers of first babies by age completed full-time education (1990,1995 Great Britain, 2000 United Kingdom)*

		16 or	under		1	7 or 18		С	over 18
	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %
Under 20	20	19	24	9	11	13	1	1	1
20-24	35	30	23	33	25	29	15	19	18
25-29	31	29	29	41	38	27	44	36	37
30-34†		17	18		21	23		35	31
35 or overt		6	6		5	8		9	13
All aged 30 or over	14	22	24	18	25	31	40	44	46
Base:	1183	907	1423	837	836	1579	387	508	1391
* Note that 1990 and 1 † Not identified separate		sed on G	B and 20	000 based	l on UK				

Mothers of later babies in England and Wales were slightly younger on average than mothers of later babies in the other countries. As discussed above, the age of mothers had increased for both first and later births. Table II.7 shows that this is the case in all countries of the United Kingdom.

Table II.7

Distribution of the sample by mother's age, birth order and country (1995 & 2000)

				I	First	birth				L	ater	birth				4	All ba	bies
		gland Nales	Sco	tland		thern eland		gland Nales	Sco	tland		thern eland		gland Wales	Sco	otland		thern eland
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	 1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	 1995 %	2000 %	1995 %	2000 %
< 20	12	14	13	12	12	13	1	1	1	1	-	1	6	7	6	6	5	6
20-24	26	23	24	21	27	24	14	13	13	11	10	9	19	18	18	16	16	15
25-29	34	30	34	33	40	31	34	27	34	25	33	29	34	28	34	29	-	30
30-34	22	24	22	25	18	25	33	36	36	37	36	39	28	30	30	31	29	33
35 +	6	9	7	8	4	7	17	22	16	27	21	22	12	16	12	18	14	16
All 30+	28	33	29	34	22	32	50	58	52	63	57	61	40	46	42	49	43	49
Base:	2076	2560	867	1115	578	730	2522	2881	996	1160	898	1050	4598	5441	1863	2274	1476	1778

As compared with the 1995 sample, educational levels have risen among mothers in the 2000 sample. The increase in the proportion of mothers completing their education at 19 or beyond was seen for both first and later births (Table II.8). This pattern is repeated in all three countries (Table II.9). As in previous years, mothers in Northern Ireland were less likely than mothers in other countries to have left school before the age of 17.

Table II.8

Distribution of the sample by age at which mother completed full-time education, for first and later births (1990,1995 Great Britain, 2000 United Kingdom)*

		First	t births		Later	births		All ba	bies**
	1990	1995	2000	1990	1995	2000	1990	1995	2000
	%	%	%	%	%	%	%	%	%
16 or under	49	40	32	57	48	40	54	45	36
17 or 18	35	37	36	33	33	34	32	35	35
Over 18	16	23	31	13	18	26	14	20	28
Base:	2430	2271	4448	2983	2745	5044	5413	5017	9492

* Note that 1990 and 1995 data based on GB and 2000 based on UK

** Includes some cases for whom exact birth order not known

Table II.9

Distribution of the sample by age at which completed full-time education, birth order and country (1995 & 2000)

				I	First	birth		Later birth							All babies					
	England & Wales		-		2		3			gland Nales	Sco	tland		thern eland		gland Nales	Sco	tland		thern eland
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %	1995 %			
< 17	40	33	40	34	29	20	49	41	46	37	34	29	45	37	43	36	32	25		
17 or 18	37	35	35	34	43	43	33	34	32	31	43	39	35	34	33	33	43	40		
Over 18	22	31	25	31	28	37	18	25	22	31	22	32	20	28	23	31	24	34		
Base:	2076	2560	867	1115	578	730	2522	2881	996	1160	898	1050	4598	5441	1863	2274	1476	1778		

It can be seen that in 2000 compared to 1995 the proportion of babies who are first rather than later babies has increased slightly in all countries. In 2000, The Northern Ireland sample comprised a smaller proportion of first babies when compared with other countries.

Table II.10

Distribution of the sample by birth order and country (1995 & 2000)

	England	& Wales Scotland Northern Irel			rn Ireland	
	1995 %	2000 %	1995 %	2000 %	1995 %	2000 %
First birth	45	47	47	49	39	41
Second birth	33	34	33	32	29	33
Third birth	14	12	14	13	19	16
Fourth or later birth	8	6	6	6	13	11
Base: All mothers	4598	5441	1863	2274	1476	1778

Finally, the relationship between social class and educational level was similar to that found in 1995 with mothers who completed their education later being more likely to be classified to non-manual as opposed to manual groups than those completing their education earlier.

Table II.11

Distribution of social class as defined by current or last occupation of husband or partner by age at which mother completed full-time education (1990,1995 Great Britain, 2000 United Kingdom)*

	16 or under		17 or 18		Over 18		All ages**						
	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	1990 %	1995 %	2000 %	
I	4	3	2	6	6	5	23	17	15	7	7	7	
II	13	16	15	22	26	24	38	41	39	20	25	25	
IIINM	6	6	7	11	9	9	9	8	11	8	8	9	
All non-manual	23	26	25	39	42	38	70	66	64	35	39	40	
IIIM	34	28	31	31	26	29	15	13	16	30	24	26	
IV	16	13	13	13	11	11	5	6	7	14	11	11	
V	3	5	6	2	4	4	-	1	2	2	4	4	
All manual	53	45	49	46	41	44	18	20	26	46	38	41	
Unclassiifed/													
no partner	24	29	26	15	18	17	11	13	11	20	22	19	
Base:	2880	2223	3436	1710	1739	3291	775	1010	2683	5413	5017	9492	

* Note that 1990 and 1995 data based on GB and 2000 based on UK

** Includes some cases for whom educational age not known

Appendix III Sampling errors

III.1 Sources of error in surveys

As with any survey, estimates resulting from the Infant Feeding Study will be subject to sources or error. Sample survey theory describes two sources of error: *systematic error* (or bias) and *random error*.

Systematic error or bias arises when respondents to the survey are not representative of the universe of interest. This can arise if either the original sample selected was unrepresentative or the response rate to the survey is low and varies significantly across different groups of participants. A rigorous sample design, with a sample selected from an exhaustive sampling frame will eradicate the former, whilst a high response rate across all respondent groups will resolve difficulties of the latter type.

The Infant Feeding Survey 2000 conducted fieldwork in mainly August and September of 2000 as in previous quinquennial rounds of the study. In some cases all mothers giving birth in this period were part of the study, but the mothers in the survey are considered to a random sample of mothers to represent all mothers in 2000.

Overall, though, the main source of error is sampling error. The extent of this depends on the natural variation in any measure that is collected and the sample size achieved.

III.2 Standard errors and confidence limits

For any percentage estimate p, the 95% confidence interval for the universe statistic **P** is:

p + -1.96 + se(p), where se(p) is the standard error of the estimate.	b) is the standard error of the estimate.	A)
---	---	----

The standard error of p is unknown but is estimated by the quantity:

$\sqrt{p(1-p)/n}$.	where n is the sample size for a particular group.	(B)
r(-r) = -	······································	(-)

This theory applies to a total sample and for the sub-groups when the design is random, unclustered, and proportionately stratified. This is the case for the Northern Irish and Scottish surveys. However, In England and Wales the design has been clustered around certain birth registration subdistricts and at a UK level it is skewed towards Scotland and Northern Ireland. The effect of the clustering and skew means that the actual sample sizes cannot be used as 'n' in (B) and that effective sample sizes will need to be calculated and used instead.

The effective sample size is the actual sample size divided by the design effect. A design effect of one arises when a sample is completely unclustered and representative of the universe it represents. Then the effective sample size is the same as the actual sample size. This will not be the case in this survey for estimates in England and Wales because of the reasons given above. However, in Scotland in Northern Ireland the design is closer to a simple random sample and so design effects are close to one. A design effect factor (design factor = $\sqrt{}$ design effect) been derived from estimated design effects for use when calculating confidence intervals.

The design standard errors and design factors for selected Infant feeding Survey measures are given in the following tables together with weighted bases, for selected measures, in each of England & Wales, Scotland, Northern Ireland and the UK are given in Tables III (i) – III (iii). The design standard errors are usually greater than the standard errors obtained under simple random sampling and should be used when estimating confidence intervals for estimates. The design factor is the ratio of the standard error of the design to the standard error of a simple random sample of the same size. The weighted bases are given as an indication of the sample sizes in particular sub-groups but may differ from the achieved number of interviews in each sub-group, on which the calculations of design standard error and design factor are based.

For survey estimates that are not included in tables III (i) – III (iii), the 95% confidence intervals for a percentage p can be calculated using the formula:

p +/- 1.96*deft*se (p),

(C)

where se(p) is the standard error from (B) assuming a simple random sample, and the 'deft' is the design factor. A suitable value for deft can be estimated from tables III (i) – (iii), by selecting a measure in the table which is likely to be clustered in the same way and based on a similar sample size.

Design factors in Scotland and Northern Ireland will tend to be smaller than those in England & Wales because of the different designs in the countries. At a UK level design factors are a combination of all the participatory countries and will be higher than those in Scotland and Northern Ireland, but lower than those in England & Wales. Furthermore, design factors will tend to be lower for subgroups than for the sample as a whole.

As an illustration the following explains the relationship between the incidence of breastfeeding figure quoted in table III.1

Estimate, p = 70.5%.

Design standard error, dse(p) = 1.31.

Design factor, deft = 2.11

Weighted Base = 5,440

Confidence Interval = 70.5% + / -1.96*1.31 or 67.9% - 73.1%

Design standard errors for incidence & duration of breastfeeding: England & Wales

Characteristic	Sample sub-group	Percentage	Standard error	Design factor	Weighted base
Incidence of breastfeeding					
	Overall	70.5	1.31	2.11	5440
Birth order	First birth	75.5	1.39	1.62	2560
	Later birth	66.2	1.43	1.62	2880
Mother's age	Under 20	50.6	2.41	0.90	393
(for first babies only)	20-24	65.7	2.08	1.07	610
(· · · · · · · · · · · · · · · · · · ·	25-29	80.0	1.66	1.16	751
	30 and over	88.8	1.35	1.24	823
Age mother finished	16 or under	54.7	1.31	1.77	2009
full-time education	17 or 18	72.2	1.51	1.46	1874
	19 or over	89.5	0.87	1.09	1507
Social class of husband or partner	1	91.3	1.40	0.95	369
· · · · · · · · · · · · · · · ·	II	83.6	1.32	1.31	1372
	III non-manual	79.1	1.82	0.97	465
	III manual	65.3	1.56	1.22	1398
	IV V	62.2	2.27	1.12	578
	v No partner	58.5 53.3	2.88 2.18	0.36 1.23	218 168
	Unclassified	70.7	4.05	1.25	871
	onclassified	,	1.05	1.15	0,1
Percentage of women who contin	nued to breastfee	ed for at least 6	weeks after the	birth	
	Overall	63.9	1.14	1.26	2898
Birth order	First birth	59.3	1.46	1.11	1440
bitti oldel	Later birth	68.4	1.31	1.06	1440
Mother's age (for first babies only)	Under 20	39.3	4.49	0.90	97
	20-24 25-29	45.3 60.0	2.74 2.13	0.88 0.94	263 421
	30 and over	67.9	1.86	0.94	605
Ago mother finished full time	16 or updor	E1 1	1 72	0.09	910
Age mother finished full-time education	16 or under 17 or 18	51.1 60.1	1.73 1.36	0.98 0.89	810 1043
culculon	19 or over	77.7	1.42	1.08	1022
Carial alars of bushessed an acatera		76.2	2 57	1.00	201
Social class of husband or partner		76.2 73.0	2.57 1.32	1.00 0.88	281 904
	III non-manual	66.2	2.57	0.93	298
	III manual	56.2	1.97	1.03	692
	IV	56.5	2.66	0.89	279
	V	41.4	4.16	0.78	86
	No partner	53.8	2.47	0.82	283
	Unclassified	59.9	6.02	1.04	74
Percentage of women who contin	nued to breastfee	ed for at least 4	months after the	e birth	
	Overall	43.0	1.14	1.22	2898
Birth order	First birth Later birth	38.5 47.4	1.38 1.40	1.06 1.06	1440 1457
	Later Dirtin	47.4	1.40	1.00	1457
Mother's age (for first babies only)	Under 20	19.3	3.54	0.88	97
	20-24	21.9	2.14	0.84	263
	25-29	38.3	2.48	1.10	471
	30 and over	49.2	1.94	0.95	605
Age mother finished full-time	16 or under	30.0	1.70	1.07	810
education	17 or 18	37.9	1.43	0.94	1043
	19 or over	58.7	1.53	0.98	1022
Social class of husband or partner	I.	61.8	3.00	1.03	281
	II	52.4	1.56	0.93	904
	III non-manual	45.7	2.48	0.85	298
	III manual	33.8	1.59	0.88	692
	IV V	31.2 31.1	2.87 3.92	1.02 0.78	279 86
	No partner	31.6	2.37	0.78	283
	Unclassified	35.2	5.34	0.95	74

Design standard errors for selected measures of sample: England & Wales

Characteristic	Sample sub-group	Percentage	Standard error	Design factor	Weighted base
During pregnancy Took supplementary iron or vitam Attended antenatal classes	ins	53.9 36.0	0.91 1.03	1.34 1.57	5399 5404
Non-smokers Never smoked Gave up smoking over a year before p	pregnancy	51.9 12.8	0.76 0.51	1.09 1.10	5224 5224
All smokers	5 ,	35.3	0.73	1.11	5224
Smoked before pregnancy Gave up smoking less than a year bef	ore pregnancy	3.4	0.25	0.98	5224
Gave up smoking on confirmation of Gave up smoking later in pregnancy, s		11.0 1.5	0.36 0.13	0.83 0.78	5224 5224
Smoked throughout pregnancy Gave up, but started again Cut down Did not cut down		19.4 3.7 14.2 1.6	0.70 0.21 0.59 0.17	1.27 0.80 1.22 0.96	5224 5224 5224 5224
Drank before pregnancy All stage 1 mothers		87.2	0.95	2.09	5440
Mothers age	Under 20 20 - 24 25 - 30 30 - 34 35 or over	87.6 83.9 87.1 88.0 90.5	1.78 1.72 1.10 0.98 1.06	1.06 1.46 1.29 1.22 1.06	383 973 1544 1647 873
Drank during pregnancy All stage 1 mothers		61.5	0.93	1.40	5440
Mothers age	Under 20 20 - 24 25 - 30 30 - 34 35 or over	53.3 54.2 59.0 64.8 72.3	2.24 2.02 1.26 1.18 1.50	0.87 1.26 1.00 1.00 0.98	383 973 1544 1647 873
Gave up drinking during pregnand All stage 1 mothers	y.	29.0	0.71	1.08	4744
Mothers age	Under 20 20 - 24 25 - 30 30 - 34 35 or over	38.1 34.9 31.6 26.1 19.9	2.15 1.67 1.16 1.10 1.26	0.81 1.00 0.91 0.95 0.88	336 816 1343 1449 789
Percentage of women who planne	d to breastfeed				
All mothers		92.1	0.36	0.99	5440
Birth order (mothers in UK)	First birth Later birth	91.2 93.0	0.55 0.41	0.97 0.85	2560 2880
Percentage of women who had gi	ven solid food t	o the baby by th	ree months of ag	e	
All mothers		22.9	0.98	1.50	4112
Method of feeding	First birth Later birth	22.8 22.9	1.12 1.16	1.17 1.29	1914 2198
Percentage of women who had gi	ven solid food t	o the baby by fo	ur months of age	•	
All mothers		84.9	0.60	1.07	4112
Method of feeding	First birth Later birth	87.4 82.8	0.80 0.73	1.06 0.91	1914 2198
Percentage of women who had gi	ven meat to bab	by at stage 3			
All mothers		94.1	0.39	1.06	4014

Design standard errors for incidence & duration of breastfeeding: Scotland

Characteristic	Sample sub-group	Percentage	Standard error	Design factor	Weighted base
Insidence of hypertification					
Incidence of breastfeeding	Overall	63.0	1.03	1.02	2274
Birth order	First birth Later birth	67.0 59.1	1.42 1.47	1.01 1.02	1115 1159
Mother's age (for first babies only)	Under 20 20-24 25-29 30 and over	31.4 55.2 70.8 82.6	3.97 3.25 2.44 2.01	0.97 1.01 1.04 1.03	148 247 358 368
Age mother finished full-time educatio	n 16 or under 17 or 18 19 or over	45.6 63.0 83.5	1.77 1.82 1.42	1.01 1.03 1.02	813 743 708
Social class of husband or partner	l III non-manual III manual IV V No partner Unclassified	89.9 79.2 65.2 57.4 58.2 47.0 65.0 40.7	2.40 1.76 3.37 2.18 3.31 4.02 2.57 5.56	1.01 1.02 1.01 1.08 1.06 0.85 0.97 0.86	162 553 206 598 247 112 393 54
Percentage of women who continu	ed to breastfee	ed for at least 6 v	weeks after the b	birth	
	Overall	66.2	1.46	1.01	1093
Birth order	First birth Later birth	61.0 71.4	2.13 1.98	1.01 1.01	550 544
Mother's age (for first babies only)	Under 20 20-24 25-29 30 and over	46.6 40.2 62.8 66.0	11.74 5.98 3.47 3.04	0.96 1.01 1.02 1.01	17 69 207 255
Age mother finished full-time educatio	n 16 or under 17 or 18 19 or over	56.0 59.1 77.0	3.11 2.69 1.98	1.02 1.02 0.99	263 353 475
Social class of husband or partner	l III non-manual III manual IV V No partner Unclassified	82.7 70.7 69.5 59.9 66.5 47.3 44.0 81.7	3.44 2.47 4.39 3.29 4.98 6.85 5.19 7.51	0.99 1.01 1.00 1.07 1.04 0.85 0.97 0.90	120 354 112 260 99 39 87 22
Percentage of women who continu	ed to breastfee	ed for at least 4 r	months after the	birth	
	Overall	49.0	1.55	1.01	1093
Birth order	First birth Later birth	43.1 54.9	2.17 2.18	1.02 1.01	550 544
Mother's age (for first babies only) Age mother finished full-time educatio	Under 20 20-24 25-29 30 and over n 16 or under 17 or 18 19 or over	27.8 23.7 41.7 50.3 35.9 39.7 63.2	10.70 5.17 3.53 3.21 3.02 2.67 2.26	0.98 1.00 1.02 1.01 1.01 1.02 1.01	17 69 207 255 263 353 475
Social class of husband or partner	l III non-manual III manual IV V No partner Unclassified	65.6 54.3 54.4 42.3 41.8 34.7 29.9 55.7	4.35 2.70 4.75 3.31 5.22 6.62 4.82 9.21	0.99 1.01 1.00 1.07 1.04 0.86 0.97 0.86	120 354 112 260 99 39 87 22

Design standard errors for selected measures of sample: Scotland

Characteristic	Sample sub-group	Percentage	Standard error	Design factor	Weighted base
During pregnancy Took supplementary iron or vitam Attended antenatal classes	ins	52.4 46.5	1.07 1.07	1.02 1.02	2261 2260
Non-smokers Never smoked Gave up smoking over a year before	pregnancy	52.4 11.2	1.08 0.68	1.02 1.02	2206 2206
All smokers		36.4	1.04	1.01	2206
Smoked before pregnancy Gave up smoking less than a year bet	ore pregnancy3.0	0.37	1.02	2206	
Gave up smoking on confirmation of Gave up smoking later in pregnancy,		9.3 2.0	0.63 0.30	1.01 1.02	2206 2206
Smoked throughout pregnancy Gave up, but started again Cut down Did not cut down		22.1 4.8 15.0 2.3	0.89 0.46 0.76 0.33	1.01 1.00 1.00 1.02	2206 2206 2206 2206
Drank before pregnancy All stage 1 mothers		89.3	0.66	1.01	2274
Mothers age	Under 20 20 - 24 25 - 30 30 - 34 35 or over	82.9 88.5 90.4 90.1 89.3	3.03 1.69 1.16 1.15 1.57	0.96 1.01 1.03 1.03	143 360 655 710 402
Drank during pregnancy All stage 1 mothers		58.7	1.06	1.02	2274
Mothers age	Under 20 20 - 24 25 - 30 30 - 34 35 or over	40.9 56.5 54.4 63.9 65.2	3.98 2.65 2.01 1.86 2.43	0.96 1.00 1.03 1.03 1.02	143 360 655 710 402
Gave up drinking during pregnan All stage 1 mothers	cy	33.8	1.07	1.02	2031
Mothers age	Under 20 20 - 24 25 - 30 30 - 34 35 or over	49.4 35.4 39.5 29.0 26.5	4.43 2.69 2.07 1.85 2.36	0.96 1.00 1.03 1.03 1.01	119 319 592 640 359
Percentage of women who planne	ed to breastfeed				
All mothers		90.5	0.63	1.02	2274
Birth order (mothers in UK)	First birth Later birth	88.1 92.8	0.98 0.8	1.01 1.02	1115 1159
Percentage of women who had gi	ven solid food to	o the baby by th	ree months of ag	e	
All mothers		27.6	1.1	1.02	1718
Method of feeding	First birth Later birth	29.0 26.3	1.61 1.50	1.02 1.02	824 894
Percentage of women who had gi	ven solid food to	o the baby by fo	ur months of age	•	
All mothers		83.5	0.91	1.01	1718
Method of feeding	First birth Later birth	85.1 81.9	1.25 1.30	1.01 1.01	824 894
Percentage of women who had gi	ven meat to bab	oy at stage 3			
All mothers		91.5	0.69	1.02	1696

Design standard errors for incidence & duration of breastfeeding: Northern Ireland

	Sample	Percentage	Standard	Design	Weighted
Characteristic	sub-group	-	error	factor	base
Incidence of breastfeeding	Overall	54.2	1.19	1.01	1778
Birth order	First birth Later birth	59.1 50.8	1.83 1.55	1.00 1.01	729 1049
Mather's age (for first habies only)	Under 20	25.9	4.47	0.99	99
Mother's age (for first babies only)	20-24	42.2	3.70	1.00	180
	25-29	68.9	3.14	1.02	220
	30 and over	76.0	2.85	1.02	231
Age mother finished full-time education	16 or under	37.9	2.31	1.01	446
	17 or 18	50.3	1.88	1.01	716
	19 or over	71.1	1.85	1.00	603
Social class of husband or partner	1	86.3	3.41	0.97	96
	ll Il non-manual	68.4 66.1	2.39 3.54	0.99 1.00	369 179
	III manual	52.0	2.27	1.00	519
	IV	50.4	3.83	1.04	186
	V	37.7	6.08	0.93	55
	No partner	46.0	2.48	0.99	349
	Unclassified	32.5	9.44	0.95	25
Percentage of women who continue	d to breastfee	ed for at least 6 v	weeks after the b	oirth	
	Overall	49.2	1.79	1.00	787
Birth order	First birth	43.6	2.65	1.00	352
	Later birth	53.8	2.40	1.00	435
Mother's age (for first babies only)	Under 20	18.3	9.65	0.98	17
	20-24	30.2	5.99	0.99	69
	25-29 30 and over	42.8 52.2	4.37 4.14	1.01 1.00	207 255
	4.6	10.0	4.45		124
Age mother finished full-time education	16 or under 17 or 18	40.0 43.6	4.45 2.93	1.01 1.01	124 293
	19 or over	45.0 56.8	2.58	1.00	367
Control along of burgles and an another a		75.0	4.00	0.07	70
Social class of husband or partner		75.9 54.7	4.83 3.35	0.97 0.98	73 214
1	ll non-manual	42.0	5.12	1.00	92
	III manual	46.1	3.47	1.03	221
	IV	45.7	5.90	1.04	78
	V No partner	43.6 31.5	11.79	0.92	15 83
	Unclassified	54.4	5.10 15.05	1.00 0.94	10
Percentage of women who continue	d to breastfee	ed for at least 4 r	months after the	birth	
-	Overall	27.4	1.60	1.00	787
Pirth order					
Birth order	First birth Later birth	21.7 32.0	2.21 2.24	1.00 1.00	352 435
Mother's age (for first babies only)	Under 20	7.1	6.79	1.04	15
	20-24 25-29	15.2 23.1	4.71 3.71	1.00 1.01	58 132
	30 and over	24.5	3.56	1.00	147
Age mother finished full-time education	16 or under	22.1	3.77	1.01	124
	17 or 18 19 or over	21.4 34.0	2.42 2.47	1.01 1.00	293 367
Social class of husband or partner	1	45.2	5.64	0.97	73
	ll Il non-manual	32.3 20.5	3.14 4.20	0.98 1.00	214 92
	III manual	20.5	2.98	1.00	221
	IV	25.1	5.13	1.04	78
	V	10.3	6.96	0.89	15
	No partner	17.2	4.20	1.01	83
	Unclassified	54.4	15.05	0.94	10

Design standard errors for selected measures of sample: Northern Ireland

Characteristic	Sample sub-group	Percentage	Standard error	Design factor	Weighted base
Characteristic					
During pregnancy					
Took supplementary iron or vitamin Attended antenatal classes	ns	71.6 32.0	1.08 1.11	1.01 1.01	1770 1771
Non-smokers		52.7			4722
Never smoked Gave up smoking over a year before p	regnancy	53.7 10.0	1.21 0.73	1.00 1.01	1722 1722
All smokers		36.3	1.16	1.00	1722
Smoked before pregnancy Gave up smoking less than a year befo	ore pregnancy	2.9	0.41	1.00	1722
Gave up smoking on confirmation of p Gave up smoking later in pregnancy, s		10.0 0.8	0.73 0.21	1.01 1.02	1722 1722
Smoked throughout pregnancy		22.5	1.01	1.00	1722
Gave up, but started again Cut down		4.2 15.5	0.48 0.87	1.00 1.00	1722 1722
Did not cut down		2.8	0.40	1.00	1722
Drank before pregnancy All stage 1 mothers		82.4	0.91	1.01	1778
Mothers age	Under 20	84.2	3.54	0.99	103
-	20 - 24 25 - 30	87.8 83.9	1.98 1.62	0.99 1.01	269 526
	30 - 34	79.7	1.67	1.01	589
	35 or over	80.3	2.37	1.01	284
Drank during pregnancy All stage 1 mothers		51.8	1.20	1.00	1778
Mothers age	Under 20	49.3	4.82	0.98	103
	20 - 24 25 - 30	41.8 51.5	3.01 2.21	0.99 1.01	269 526
	30 - 34 35 or over	53.3 60.3	2.09 2.92	1.01 1.00	589 284
Gave up drinking during pregnancy	,				
All stage 1 mothers		36.6	1.27	1.01	1464
Mothers age	Under 20	41.5	5.17	0.98	87
	20 - 24 25 - 30	51.5 38.3	3.24 2.34	1.00 1.01	236 441
	30 - 34 35 or over	32.6 24.6	2.19 2.85	1.01 1.00	469 228
Percentage of women who planned		21.0	2.05	1.00	220
- ·	a to breastreeu				1770
All mothers		90.8	0.7	1.00	1778
Birth order (mothers in UK)	First birth Later birth	85.7 94.4	1.3 0.7	1.00 1.00	729 1049
Percentage of women who had giv	en solid food t	o the baby by th	ree months of ag	je	
All mothers		34.4	1.26	1.01	1437
Method of feeding	First birth Later birth	35.5 33.6	1.98 1.63	1.00 1.01	984 852
Percentage of women who had giv					
All mothers		84.5	1.0	1.01	1437
Method of feeding	First birth	87.2	1.39	1.00	584
method of recurry	Later birth	82.7	1.39	1.00	852
Percentage of women who had giv	en meat to bab	by at stage 3			
All mothers		90.1	0.81	1.02	1405

Design standard errors for incidence & duration of breastfeeding: United Kingdom

Characteristic	Sample sub-group	Percentage	Standard error	Design factor	Weighted base
Incidence of breastfeeding					
incluence of breastreeding	Overall	69.1	0.68	1.20	9492
Birth order	First birth Later birth	74.1 64.7	1.43 1.45	1.48 1.47	4448 5044
Mother's age (for first babies only)	Under 20	48.2	2.34	1.09	594
	20-24 25-29	63.8 78.8	2.23 1.86	1.22 1.29	1025 1353
	30 and over	87.7	1.55	1.33	1461
Age mother finished full-time education		53.5	1.46	1.29	3436
	17 or 18 19 or over	70.2 87.8	1.59 0.94	1.41 1.24	3289 2683
Social class of husband or partner	1	91.0	1.48	1.14	639
Social class of Husballd of partile	II	82.6	1.47	1.36	2366
	III non-manual III manual	77.3 64.0	1.92 1.77	1.16 1.34	823 2461
	III Manual IV	61.3	2.51	1.28	1010
	V	56.9	2.61	1.02	382
	No partner Unclassified	69.7 51.1	2.00 4.72	1.31 1.22	279 1532
Percentage of women who continu					
recentage of women who continu	Overall	63.4	1.30	1.36	4976
Diath and a					
Birth order	First birth Later birth	58.7 67.9	1.62 1.42	1.26 1.22	2464 2512
Mother's age (for first babies only)	Under 20	38.8	4.94	1.08	158
	20-24 25-29	45.7	2.94	1.08	439
	30 and over	59.2 70.9	2.25 1.93	1.14 1.16	818 1041
Age mother finished full-time education		51.1	1.95	1.16	1350
	17 or 18 19 or over	59.3 76.4	1.44 1.40	1.09 1.23	1783 1806
Social class of husband or partner	L	76.7	2.65	1.16	486
	ll III non-manual	72.2 65.1	1.39 2.70	1.09 1.12	1546 516
	III manual	55.9	2.18	1.12	1198
	IV	56.6	2.84	1.10	478
	V No partner	41.9 52.2	3.76 2.49	0.95 1.03	148 482
	Unclassified	60.9	6.49	1.17	122
Percentage of women who continu	ed to breastfee	ed for at least 4 r	nonths after the	birth	
	Overall	42.7	1.29	1.34	4976
Birth order	First birth Later birth	38.2 47.1	1.51 1.51	1.22 1.22	2464 2512
Mother's age (for first babies only)	Under 20	18.8	3.87	1.07	164
	20-24 25-29	25.1 38.2	2.35 2.64	1.03 1.23	657 1366
	30 and over	38.2 50.6	2.04	1.23	2767
Age mother finished full-time education	on 16 or under	30.2	1.97	1.21	1350
	17 or 18 19 or over	37.3	1.59	1.14	1783
		57.6	1.57	1.17	1806
Social class of husband or partner		61.3 51.7	3.15 1.65	1.18 1.12	486 1546
	III non-manual	44.9	2.52	1.06	516
	III manual IV	33.8 31.5	1.69 3.21	1.10 1.21	1198 478
	V	30.8	3.53	0.95	478 148
	No partner Unclassified	30.8 36.7	2.41 5.54	1.05 1.09	482 122
	Unclassified	36.7	5.54	1.09	IZZ

Design standard errors for selected measures of sample: United Kingdom

Sample Percentage Standard Design Weighted Outring pregnancy sub-group error facto base During pregnancy Took supplementary item or vitamins 54.7 0.96 1.37 9424 Attended antenatal classes 36.5 1.06 1.96 9431 Non-sinckers 52.1 0.73 1.24 9126 Gave up smoking over a year before pregnancy 35.4 0.77 1.25 9126 Gave up smoking lest than a year before pregnancy 3.3 0.25 1.07 9126 Gave up smoking lest than a year before pregnancy 3.3 0.21 1.02 9126 Gave up smoking later in pregnancy, stayed quit 1.5 0.13 9126 9126 Gave up, but started again 1.38 0.61 1.33 9126 Gave up, but started again 1.7 0.18 1.92 9126 Cut down 1.7 0.18 1.93 9126 Jast pert mothers 87.1 0.86 1.33 9126 <						
During pregnancy Tack supplementary iron or vitamins and the same of the same o	Chavastavistis	Sample	Percentage		Design	Weighted
Took supplementary into or vitamins 54.7 0.96 1.37 9424 Non-smokers Never smoked 9126 9126 Save up smoking over a year before pregnancy 52.1 0.79 1.24 9126 All smokers 3.3 0.25 1.17 9126 Save up smoking over a year before pregnancy 3.3 0.25 1.17 9126 Gave up smoking lest inhara year before pregnancy 1.8 0.35 1.05 9126 Gave up smoking lest inhara extra dut 1.5 0.13 1.05 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.32 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.32 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.92 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.92 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.92 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.	Characteristic	sub-group		error		
Took supplementary into or vitamins 54.7 0.96 1.37 9424 Non-smokers Never smoked 9126 9126 Save up smoking over a year before pregnancy 52.1 0.79 1.24 9126 All smokers 3.3 0.25 1.17 9126 Save up smoking over a year before pregnancy 3.3 0.25 1.17 9126 Gave up smoking lest inhara year before pregnancy 1.8 0.35 1.05 9126 Gave up smoking lest inhara extra dut 1.5 0.13 1.05 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.32 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.32 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.92 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.92 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.92 9126 Gave up smoking lest inharancy, stayed qut 1.7 0.18 1.						
Non-smoked Save up smoking over a year before pregnancy 52.1 0.79 1.24 9126 All smokers Save up smoking over a year before pregnancy 3.3 0.25 1.17 9126 Cave up smoking per confirmation of pregnancy Gave up smoking later in pregnancy, stayed quit 1.5 0.13 105 9126 Smoked throughout pregnancy Gave up, but started again 3.8 0.21 1.02 9126 Gave up smoking later in pregnancy Gave up, but started again 1.7 0.18 1.55 9126 Cur down 1.7 0.18 1.55 9126 9126 Cur down 1.7 0.18 1.55 9126 Did not cut down 1.7 0.18 1.55 9126 Did not cut down 1.7 0.86 1.88 9492 Mathers age Under 20 87.2 0.39 1.06 8394 25: 50 0.34 67.6 0.55 1.29 2894 25: 50 0.34 64.0 1.20 1.55 2703 35 or over 29.0	Took supplementary iron or vitami	ns				
Never smoked Gave up smoking over a year before pregnancy 12.1 0.79 1.25 9126 All smokers Smoked before pregnancy Gave up smoking less than a year before pregnancy 3.3 0.25 1.17 9126 Gave up smoking less than a year before pregnancy Gave up smoking less than a year before pregnancy 10.8 0.35 1.05 9126 Gave up smoking less than a year before pregnancy Gave up but started again 13.8 0.72 13.2 9126 Gave up smoking less than a year before pregnancy Gave up, but started again 13.8 0.72 13.2 9126 Gave up, but started again 13.8 0.21 1.02 9126 Did not cut down 1.7 0.18 1.55 9126 Did not cut down 1.7 0.86 1.88 9492 Mothers age Under 20 87.2 0.38 1.06 8394 20: 2.4 84.1 0.79 1.49 1670 1670 20: 2.4 84.7 0.98 1.35 1670 1670 20: 2.4 5.37 0.94 1.35 1670			36.5	1.06	1.96	9431
All sinckers 35.4 0.77 1.25 9126 Gave up smoking less than a year before pregnancy 3.3 0.25 1.17 9126 Gave up smoking less than a year before pregnancy 10.8 0.35 1.05 9126 Gave up smoking less than a year before pregnancy 10.8 0.35 1.05 9126 Gave up smoking less tim a year before pregnancy 19.8 0.72 1.32 9126 Gave up divisited again 3.3 0.21 1.02 9126 Cut down 1.4 0.61 1.31 9126 Did not cut down 1.7 0.18 1.88 9492 Mothers age Under 20 87.1 0.86 1.88 9492 Mothers age Under 20 87.1 0.86 1.89 9492 Mothers age Under 20 52.3 0.94 1.35 1670 25 - 30 58 ri 1.22 1.55 2894 150 Jon add Ling Pregnancy 20 - 24 53.7 1.97 1.95 1670 25 - 30 58 ri 1.22 1.55 2894			52.1	0.79	1.24	9126
Sincket before pregnancy 1.10 1.17 9126 Gave up smoking less than a year before pregnancy 1.0.8 0.25 1.17 9126 Gave up smoking on confirmation of pregnancy 10.8 0.27 1.32 9126 Gave up smoking an confirmation of pregnancy 19.8 0.72 1.32 9126 Gave up smoking later in pregnancy 19.8 0.72 1.32 9126 Gave up smoking later in pregnancy 1.7 0.86 1.88 9492 Did not cut down 1.7 0.86 1.88 9492 Mothers age Under 20 87.1 0.86 1.88 9492 Mothers age Under 20 87.3 0.57 1.22 2894 JS or over 80.8 0.50 1.22 2894 JS or over 80.8 0.50 1.22 2894 JS or over 80.8 0.50 1.22 2894 JS or over 80.7 0.98 1.39 9492 Mothers age Under 20 52.3 </td <td>Gave up smoking over a year before p</td> <td>regnancy</td> <td>12.5</td> <td>0.53</td> <td>1.25</td> <td>9126</td>	Gave up smoking over a year before p	regnancy	12.5	0.53	1.25	9126
Gave up smoking less than a year before pregnancy 3.3 0.25 1.17 9126 Gave up smoking on confirmation of pregnancy 10.8 0.35 1.05 9126 Gave up smoking later in pregnancy 19.8 0.72 1.32 9126 Gave up smoking later in pregnancy 3.8 0.21 1.02 9126 Gave up, but started again 3.8 0.21 1.02 9126 Cut down 1.7 0.18 1.55 9126 Did not cut down 1.7 0.18 1.55 9126 Drank before pregnancy 87.2 0.38 1.06 8394 All stage 1 mothers 87.1 0.86 1.88 9492 Mothers age Under 20 87.2 0.38 1.06 8394 25 - 30 8.76 0.35 1.29 2070 20 23 0.94 1.55 1.670 Jas sor over 52.3 0.94 1.35 557 1.670 1.33 1.34 Drank during pregnancy 20 - 24 53.7 1.97 1.95 1.670 So rower			35.4	0.77	1.25	9126
Gave up smoking later in pregnancy: stayed quit 1.5 0.13 1.07 9126 Smoked throughout pregnancy: Gave up, but started again 3.8 0.21 1.02 9126 Cut down 14.3 0.61 1.31 9126 Did not cut down 1.7 0.86 1.88 9492 Mathers age Under 20 87.2 0.38 1.06 8394 Mathers age Under 20 87.2 0.38 1.06 8394 Mathers age Under 20 87.2 0.38 1.06 8394 Drank during pregnancy: All stage 1 mothers 60.7 0.98 1.39 9492 Mathers age Under 20 52.3 0.94 1.35 657 20 - 24 53.7 1.97 1.95 1670 1534 All stage 1 mothers 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 2573 20 - 24 53.7 1.97 1.95 1534 Mathers age Under 20 39.0 0.57 1.02 1534 <		ore pregnancy	3.3	0.25	1.17	9126
Gave up, but started again 3.8 0.21 1.02 9126 Cut down 14.3 0.61 1.31 9126 Did not cut down 1.7 0.18 1.55 9126 Mathes age Under 20 87.2 0.38 1.06 8394 Mothers age 20 - 24 84.3 0.79 1.46 1870 23 - 30 87.6 0.50 1.22 2894 30 - 34 87.6 0.50 1.22 2894 35 or over 89.8 0.35 1.06 1534 Drank during pregnancy 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 20 - 24 53.7 1.97 1.95 1670 29 293 30 - 34 64.0 1.20 1.55 2949 Mothers age Under 20 52.3 0.94 1.35 657 1.55 2949 35 1.55 2949 35 1.55 2949 35 1.55 2949 35 1.22 1.55 2949<						
Cut down 14.3 0.61 1.31 9126 Did not cut down 1.7 0.18 1.51 9126 Drank before pregnancy 87.1 0.86 1.88 9492 Mothers age Under 20 87.2 0.38 1.66 8394 20 - 24 84.3 0.79 1.46 81940 25 - 30 87.1 0.57 1.29 2703 30 - 34 87.6 0.50 1.22 2894 All stage 1 mothers 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 All stage 1 mothers 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 2693 20 - 24 53.7 1.97 1.95 1570 2703 30 - 34 64.0 1.20 1.55 2894 35 or over 71.1 1.09 1.53 153 Mothers age Under 20 39.0 0.56 1.02 573 30 - 34 26 - 0.65						
Trank before pregnancy All stage 1 mothers 87.1 0.86 1.88 9492 Mothers age Under 20 87.2 0.38 1.06 8394 20 - 20 87.1 0.57 1.29 2703 30 - 34 87.6 0.50 1.22 2703 30 - 34 87.6 0.50 1.22 2703 All stage 1 mothers 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 Mothers age Under 20 53.7 1.97 1.55 2894 35 or over 71.1 1.09 1.53 1570 25 - 30 58.1 1.22 1.55 2894 35 or over 71.1 1.09 1.53 1534 Mothers age Under 20 35.7 0.73 1.17 1438 35 or over 20.7 1.23 8266 1.05 23536 All stage 1 mothers 91.8 0.39 1.17 1438 </td <td>Cut down</td> <td></td> <td>14.3</td> <td>0.61</td> <td>1.31</td> <td>9126</td>	Cut down		14.3	0.61	1.31	9126
All stage 1 mothers 87.1 0.86 1.88 9492 Mothers age Under 20 87.2 0.38 1.06 8394 25 - 30 87.1 0.57 1.29 2703 35 or over 89.8 0.35 1.06 1534 Prank during pregnancy 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 Mothers age Under 20 52.3 0.94 1.35 657 All stage 1 mothers 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 20 - 24 53.7 1.97 1.95 1570 25 30 34 64.0 1.20 1.55 2994 35 0.65 1.02 573 1.97 1.95 1570 25 33 1.07 123 8266 Mothers age Under 20 39.0 0.56 1.02 573 35 1.07 123 35 35 35 0.33 1.07<			1.7	0.18	1.55	9126
20 - 24 84.3 0.79 1.46 1670 25 - 30 87.1 0.57 1.29 2703 30 - 34 87.6 0.50 1.22 2844 35 or over 89.8 0.35 1.06 1534 Drank during pregnancy All stage 1 mothers 0.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 20 - 24 53.7 1.97 1.95 1670 25 30 - 34 64.0 1.20 1.55 2894 35 or over 71.1 1.09 1.55 2894 35 or over 29.8 0.77 1.23 8266 Mothers age Under 20 39.0 0.56 1.02 573 21 - 22 - 3			87.1	0.86	1.88	9492
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Mothers age	Under 20	87.2	0.38	1.06	8394
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All stage 1 mothers 60.7 0.98 1.39 9492 Mothers age Under 20 52.3 0.94 1.35 657 20 - 24 53.7 1.97 1.95 1670 23 - 30 58.1 1.22 1.55 2894 35 or over 71.1 1.09 1.53 2894 Mothers age 20 - 24 55.7 0.77 1.23 8266 Mothers age 20 - 24 35.7 0.73 1.17 1408 25 - 30 32.6 0.65 1.12 2353 Mothers age 20 - 24 35.7 0.73 1.17 1408 25 - 30 32.66 0.65 1.12 2353 All mothers age 20 - 24 35.7 0.73 1.17 1408 25 - 30 32.66 0.65 1.12 2353 235 All mothers 91.8 0.39 1.17 9492 Birth order (mothers in UK) First birth 32.8 0.90 1.67 5044 Method of feeding First birth 23.8 0						
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Percentage of women who had given meat to baby at stage 3	Method of feeding					
	Percentage of women who had give					
				0.43	1.22	7100

Appendix IV Registration subdistricts sampled in England & Wales

No	District	Subdistrict	Subdistrict name	No	District	Subdistrict	Subdistrict name
1.	7	1	Oldham	53.	465	1	Braintree
2.	9	1	Rochdale	54.	466	1	Basildon
3.	11	1	Salford	55.	468	1	Chelmsford
4.	14	1	Tameside	56.	479	1	Cheltenham
5.	15	1	Trafford	57.	491	1	Basingstoke
6.	18	1	Wigan & Leigh	58.	497	1	Portsmouth
7.	23	1	Knowsley	59.	501	2	Gosport
8.	25	1	Liverpool	60.	517	1	Kidderminster
9.	45	1	Rotherham	61.	527	1	Worcester
10.	48	1	Sheffield	62.	532	1	Hatfield
11.	51	1	Gateshead	63.	536	1	Watford
12.	54	1	North Tyneside	64.	542	1	Beverley
13.	63	1	Coventry	65.	544	1	Bridlington
14.	70	1	Sandwell	66.	548	1	NE Lincolnshire
15.	73	1	Solihull South	67.	550	1	Hull
16.	77	1	Wolverhampton	68.	556	1	Isle Of Wight
17.	82	1	Keighley	69.	560	1	Canterbury with Swale
18.	89	1	Huddersfield	70.	562	1	Thames
19.	92	1	Leeds	71.	575	1	Thanet with Dover
20.	99	1	Wakefield	72.	581	1	Blackpool
21.	218	1	Barking&Dagenham	73.	583	1	Chorley
22.	229	1	Greenwich	74.	586	2	Rossendale
23.	231	1	Hammersmith	75.	587	2	Lancaster
24.	238	1	Islington	76.	610	1	Boston
25.	240	1	Kingston-U-Thames	77.	616	1	Grantham
26. 27.	241	1	Lambeth	78. 79.	636 685*	1	Great Yarmouth
- · ·	247		Redbridge				Beeston & Stapleford
28. 29.	250	1	Camden Southwark	80. 81.	685*	2 3	Carlton
29. 30.	251 255	1	Waltham Forest	81.	685* 689	3	Eastwood Nottingham
30. 31.	255	1	Newham	83.	691	1	Worksop
31.	300	1	Bath	84.	702	1	Oxford
33.	300	1	Bristol	85.	710*	1	Bridgnorth
34.	322	1	Ascot	86.	715	1	Shrewsbury
34.	322	3	Windsor	80.	713	1	Frome
36.	326	1	Milton Keynes	88.	724	1	Taunton
37.	327	1	Chiltern Hills	89.	732	1	Lichfield
38.	333	1	Huntingdon	90.	735	1	Stafford
39.	340	1	Cheshire West	91.	737	. 1	Stoke-On-Trent
40.	348	1	Middlesbrough	92.	757	1	North Surrey
41.	350	1	Stockton-on-Tees	93.	761	1	West Surrey
42.	351	1	Hartlepool	94.	768	1	Nuneaton& Bedworth
43.	370	1	Truro	95.	770	1	Rugby
44.	377	1	Kendal	96.	780	1	Crawley
45.	391*	2	Matlock	97.	781	1	Haywards Heath
46.	393	1	Chesterfield	98.	788	1	Chippenham
47.	416	1	Plymouth	99.	795	1	Salisbury
48.	421	1	Mid Devon	100.	816	1	Aberystwyth
49.	442	1	Durham Western	101.	818	1	Carmarthen
50.	454	1	Eastbourne	102.	841	1	Ogwen
51.	456	1	Hastings & Rother	103.	890	1	Cardiff/Caerdydd
52.	461	1	Uckfield	104.	896	1	Neath
* Cc	ombined int	o one area					

Appendix V Coding frame for types of drinks

Water

Water from the tap Boiled tap water Mineral water (include "with a hint ofs...") Purified water (bought from a shop) Other water not otherwise specified

Water with sugar/honey added

Water with sugar added Water with honey added

Baby drink with added sugar/glucose

Baby drink with added sugar/glucose (specified)

Baby drink unsweetened

Diluted concentrate Baby juice drink Ready to Drink Baby juice drink Other unsweetened baby drink – not specified as ready to drink or concentrate

Other baby drinks not otherwise specified

All other baby drinks not specified above.

Commercial baby herbal drinks

Fennel Orange & clove Camomile Lemon, barley & camomile Peach & herb Hibiscus, apple & rosehip Other commercial baby herbal drink

Homemade herbal or other drinks

Homemade herbal drinks with sugar/honey added Homemade herbal drinks, unsweetened All homemade herbal drinks not otherwise specified All other (non-herbal) homemade drinks not otherwise specified

Adult drink with sugar/glucose

Adult Ribena

Diluted concentrate Ribena (not specified as light) Ready to Drink Ribena (not specified as light) including Ribena Spring Ribena - not otherwise specified as light, dilute or ready to drink Diluted concentrate Ribena Light Ready to drink Ribena Light Ribena Light – not specified as dilute or ready to drink Ribena Toothkind (no added sugar) concentrate Ribena Toothkind (no added sugar) ready to drink Other adult drinks with added sugar/glucose Sweetened fruit juice e.g. Britvic juices Dilute concentrate squash drinks (not low calorie or diet) Ready to drink squash drinks Other adult drinks with added sugar/glucose not specified as ready to drink or concentrate

Adult drinks with artificial sweetener

Dilute concentrate squash drinks with artificial sweetener Ready to drink squash drinks with artificial sweetener "Diet" carbonated drinks Other drinks with artificial sweetener not specified as ready to drink or concentrate

Adult drinks unsweetened

Fresh fruit juice Diluted squash sugar/artificial sweetener free Ready to drink squash sugar/artificial sweetener free Other unsweetened drink not specified as ready to drink or concentrate

Other adult drink not otherwise specified

All other unspecified adult drinks.

Other drink

Tea with milk, no sugar Tea with milk and sugar/honey Tea with sugar/honey, no milk Tea with neither milk nor sugar Tea not otherwise specified Fruit or herbal tea (caffeine free) Fruit/herbal tea with no sugar/honey Fruit/herbal tea with sugar/honey Fruit or herbal tea not otherwise specified Any other drink not elsewhere specified

Appendix VI Coding frame for types of food

Table 9.9

Rice cereal

Baby rice (dried, in can/jars, other) All adult rice products

Other cereal

Baby cereal (dried, cans/jars) All types cooked at home 9adult) Porridge (adult, homemade or commercially prepared) Pasta (adult) Pasta with cheese (adult) Pasta with vegetables (adult) Other cereal products not otherwise specified (adult, homemade or commercially prepared)

Rusk

Dried babyfood

Savoury dried babyfood Dessert dried babyfood Other dried babyfood

Babyfood in cans or jars

Savoury babyfood in cans/jars Dessert babyfood canned/jars Other cans/jars

Homemade food

All fresh/homemade foods

Other food

All non-baby commercial (ready to eat/heat & serve) foods

Table 9.10

Yoghurt

Yoghurt (homemade or commercially prepared)

Fresh fruit

Cooked fresh fruit Raw fresh fruit

Other dessert

Homemade/commercially prepared rice pudding/semolina Homemade/commercially prepared custard/egg custard Other homemade desserts not otherwise specified Ice cream Instant whip/jellies All other puddings/desserts not otherwise specified

Dried fruit or nuts

Nuts Mixed dried fruit & nuts Dried fruit Fruit not otherwise specified

Egg

Whole egg Egg yolk only

Cheese & dairy produce

Cheese

Cheese sauce

Other/mixed dairy products not otherwise specified

Meat based meal

Beef/chicken/turkey/lamb/pork/bacon (including with vegetables/rice/pasta/ pastry or pies) Meat based stew/casserole/chilli/spaghetti bolognese Meat based soup (homemade or commercially prepared) Meat based gravy Meat based ready made meals (with veg/rice/pasta/pastry/pie) including sausages & beans Meat pizza Other meat/mixed meal

Fish based meal

Fish based meals (including with vegetables/rice/pasta/ pastry or pies)

Fish fingers (including with veg/rice/pasta)

Fish based ready made meals (with veg/rice/pasta/pastry/pie)

Vegetable based meal

Vegetable based stew/casserole/pie/pastry Vegetable based soup (homemade or commercially prepared) Vegetable based gravy Vegetable based ready made meals (with rice/pasta/pie/pastry) Vegetable pizza

Potatoes

Potatoes (boiled, baked, fried with/without oil/butter - include oven chips etc.)

Other vegetables

All other types cooked All other types raw Tomato or other veg sauce All other types of vegetable not otherwise specified Baked beans Other beans

Bread/toast

Slices of bread/bread & butter/margarine Cheese sandwich Egg sandwich Meat sandwich Vegetable sandwich Yeast extract sandwich Bread & jam/honey Other sandwich not otherwise specified

Other foods

Other homemade food not otherwise specified Soya protein Ready made meals (sausages/burgers/mince) Pizza n.e.s. All other ready made meals n.e.s.

Homemade cakes & biscuits

Commercially prepared cakes & biscuits

Sweets

Chocolate

Crisps/savoury snacks

All other confectionery not otherwise specified

Soups n.e.s.

Commercial food products not otherwise specified

Appendix VII Survey documents

Covering letters

There were several different versions of covering letters depending on the stage of the survey, whether it was an initial approach or a reminder, and depending on which country the mother lived in. At **Stage 1**, when the initial approach was made from the respective registration offices, there were separate versions for each of England & Wales, Scotland and Northern Ireland. Within each of these countries, there were four letters – an initial letter and three reminders. At **Stages 2 and 3** when the fieldwork in England, Wales and Scotland was handled fully by BMRB, there were three letters (initial & 2 reminders) for these countries, and an additional three letters from NISRA for the addresses in Northern Ireland.

Three letters have been appended here:

- the initial letter at Stage 1 for sampled addresses in England & Wales
- the initial letter at Stage 2 for sampled addresses in England & Wales and Scotland
- the initial letter at Stage 3 for sampled addresses in England & Wales and Scotland

Questionnaires

At Stage 1, there were three different versions of the questionnaire, one for each country. The only differences between the country versions were that the question asking about mother's ethnic background was tailored to the different countries (in line with the 2001 Census) and the NI version had an additional question about religion.

At Stages 2 and 3, there was no tailoring to country. However, there were two different versions of the questionnaire depending on whether the mother had been breastfeeding or bottle-feeding at the previous survey stage. The "bottle-feeding" versions differed from the "breastfeeding" versions only in that Q3-Q5 were omitted at Stage 2 and Q3-Q6 were omitted at Stage 3.

Three questionnaires have been appended here:

- the Stage 1 questionnaire sent to all mothers in England in Wales
- the Stage 2 questionnaire sent to all mothers who had been breastfeeding at Stage 1
- the Stage 3 questionnaire sent to all mothers who had been breastfeeding at Stage 2

Stage 1

	GENERAL REGISTER OFFICE Smedley Hydro - Trafalgar Road - Southport PR8 2HH
Ref: 1154 598	Tel: 0151 471 4574 October 2000
Dear New Mother,	
Survey of Infant Feeding	
the Health Departments of England, Norther	y of Infant Feeding that is being carried out jointly by m Ireland, Scotland and Wales. The survey itself will , by BMRB Social Research, an independent research
	vith you, please tick the box on the front page of the e do not trouble you further and I apologise for any
current feeding practices including bottle at where they receive advice. Your name has b months of August and September 2000 (Au	conducted every five years since 1975, is to identify nd breastfeeding, how mothers feed their babies, and een drawn at random from the register of births for the <i>egust, September & October – NI</i>). We would very vey and, for this reason, I am enclosing a copy of the id envelope.
However, I would be very grateful if you w	baby does not leave much in the way of spare time, ould spare half an hour or so of your valuable time to e envelope provided. You do not need a stamp.
for research purposes only and no information	ed in the strictest confidence. The results will be used on that could identify you will be passed on to anyone alts will be published in aggregate form only, and no
	on your help, and we do hope that you will be able to any questions about the survey, please call Sarah one 0800 015 4492.
Thank you in anticipation for your help.	
Yours faithfully,	

Stage 2



Sarah Wands Senior Researcher Officer MINE International Limited legisteral in England lumber 275804



Stage 3

1154598/Stage 3 Ref: SN xxxxx

MAILMERGE NAME MAILMERGE ADDRESS 1 ADDRESS 2 ADDRESS 3 ADDRESS 4

June 2001

Dear [NAME OF RESPONDENT],

Survey of Infant Feeding

We contacted you a few months ago asking for your help with a study of Infant Feeding that is being carried out by BMRB Social Research on behalf of the Health Departments of England, Northern Ireland, Scotland and Wales. On that occasion you kindly completed our questionnaire and now that your baby is a little older, I am writing to ask if you would help us again.

The purpose of this survey is to find out how the pattern of feeding babies changes as babies get older and the results of this survey will feed directly into Government policy. I am enclosing a questionnaire about this for you to return in the reply-paid envelope provided. You do not need a stamp.

If, for any reason, your baby is no longer with you, please tick the box on the front page of the questionnaire and return it to us so that we do not trouble you further and I apologise for the distress this letter may have caused you.

Any information that you give will be treated in the strictest confidence. The results will be used for research purposes only and **no** information that could identify you will be passed on to anyone outside the BMRB research team. The results will be published as statistical summaries only, and no identifiable information will be retained.

The success of the survey depends on getting a reply from as many of the mothers we have written to as possible, and we do hope that you will help us with the third and final part of this important study. If you have any questions about the survey, please call Karin Paice on free-phone 0800 015 4492.

Thank you in anticipation of your help.

Yours sincerely,

Sarah Wands Senior Researcher Officer



BMRB International Hadley House 79–81 Uxbridge Road Ealing London Wil ISU

Triphese +44 19120 8566 5000

+44 (0)20 8579 9208

Walkdar www.bmrb.co.uk





Walkerinformation

Global Network

Aurober 178304 Registered office as above



t

1154-598 England/Wales

Survey of Infant Feeding

t

October/November 2000

IN CONFIDENCE

What is the questionnaire about?

This questionnaire asks about you and your new baby.

If, rather than a single baby, you have twins or triplets, please answer the questionnaire in relation to the one who was born first.

If, for any reason, your baby is no longer with you, please cross the box below and return the questionnaire to us so we do not trouble you further.

My baby is no longer with me

Our guarantee of confidentiality

The names and addresses of people who co-operate in surveys are held in strict confidence by BMRB. We will never pass your name or address to any Government Department, business, the media or members of the public.

How to fill in the questionnaire

1. Most questions on the following pages can be answered simply by putting a cross in the box next to the answer that applies to you.

Example:	Yes	\mathbf{X}
	No	

Sometimes you are asked to write in a number or the answer in your own words. Please enter numbers as figures rather than words.

2. Occasionally you may have more than one answer to a question. Please cross all the boxes next to the answers that apply to you if the instruction **"Please cross one or more boxes"** is printed on top of the boxes.

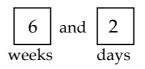
3. Sometimes you are asked to give an age or a length of time in weeks and days, or days and hours. Please follow the instructions very carefully.

For example:

How old is your baby?

If your baby is 6 weeks and 2 days old enter the number of whole weeks plus any additional days

Please enter numbers in both boxes



- **4.** Usually after answering each question you go on to the next one unless a box you have crossed has an arrow next to it with an instruction to go to another question.
 - Example:Yes \boxtimes \ominus Go to Q8No \square

By following the arrows carefully you will miss out some questions which do not apply, so the amount you have to fill in will make the questionnaire shorter than it looks.

- **5.** If you cannot remember, do not know, or are unable to answer a particular question please write that in.
- 6. When you have finished please post the questionnaire to us as soon as possible in the reply-paid envelope provided, even if you were not able to answer all of it.

We are very grateful for your help

t

First of all we would like to ask some general questions before finding out how you feed your baby at present.

Q1. What is your baby's first name? Please write in below - 1 letter per box.

İ.							
İ.							
Í.							
Í.							
L							

Q2. How old is your baby?

Please write numbers in both boxes

	Write in how many whole weeks plus any additional days	weeks	and	days	
Q3.	Is your baby a boy or a girl?				

		Boy Girl	
Q4.	Is this your first baby?		 □ ⇒ Go to Q5 □ ⇒ Go to a)

a). How many children do you have in total? Please exclude stepchildren or foster children.

Write in number



Q5. Is your baby one of twins, triplets or other multiple birth?

No, neither	
Yes, twin	
Yes, triplets or other multiple birth	

If you have twins or triplets please complete this questionnaire with respect to the one that was born first.

Section 2: About the milk that you give your baby

Q6. At the moment is your baby ...

breast fed	⇒	Go to (a)
bottle fed	⇒	Go to Q7
or both?	⇒	Go to Q10

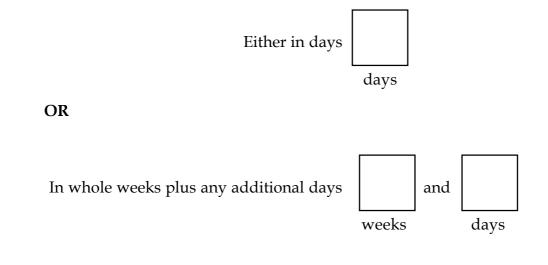
(a). Do you ever give your baby milk in a bottle at present (apart from expressed breast milk)?

Yes (even if only occasionally)	⇔	Go to Q10
No	⇔	Go to Q15

Q7. Did you ever put your baby to the breast?

Yes (even if it was once only)	⇔	Go to Q8
No, never	⇒	Go to Q10

Q8. How old was your baby when you last breast fed him/her? Please write the age in appropriate box



(a) What were your reasons for stopping breast feeding? *Please write in the reasons*

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Q9. Would you have liked to continue breast feeding for longer or had you breastfed for as long as you intended?

Would have liked to breastfeed longer	
I had breastfed for as long as intended	

Q10. Which kind of milk do you give your baby most of the time at the moment?

	Please cro one box o	
Cow and Gate Premium	ر آن ا	
Cow and Gate Plus	s 🗌	
Cow and Gate Omneo Comfort 1		
SMA Gold	l 🗌	
SMA White		
Milupa Milumi	l 🗌	
Milupa Aptamil First	t 🗌	
Milupa Aptamil Extra	ı 🗌	
Farley's First	t 🗌	Go to Q10b
Farley's Second	l 🗌	
Boots Formula 1		
Boots Formula 2	2	
Sainsburys First Menu Stage 1 milk		
Sainsburys First Menu Stage 2 milk		
Hipp Organic Infant Milk		
Soya-based Formula (Please cross and write in the name)		
Liquid cow's milk	× ۲	> Go to Q10a
Another kind of milk (Please cross and write in the name)		> Go to Q10b

Q10(a). If you use liquid cow's milk, is it whole milk, semi-skimmed or skimmed?

Whole Semi-skimmed Skimmed	Go to Q11
(b). Thinking of the milk that you giv normally use powdered milk, rea	ve your baby most of the time, do you dy to feed milk or both?
Powdered	
Ready to feed	
Both	
Q11. Do you ever add anything to the baby mill Yes	$\Box \Rightarrow$ Go to (a)
No	□ ⇒ Go to Q12
(a). What do you add to the baby milk?	
	se cross one more boxes
Sugar	
Honey	
Tea	
Something else (<i>Please cross and write in</i>)	

Q12. Where do you usually get the baby milk for your baby?

	Please cross one or more boxes		
From a child health clinic/hospi	ital		
From a chemist sh	lop		
From a supermar	ket		
From another type of sh	lop		
Somewhere else (<i>Please cross and write</i>	in)		

Q13. Have you always used the baby milk mentioned at Q10 or have you changed type of milk at all (apart from changing from breast milk)?

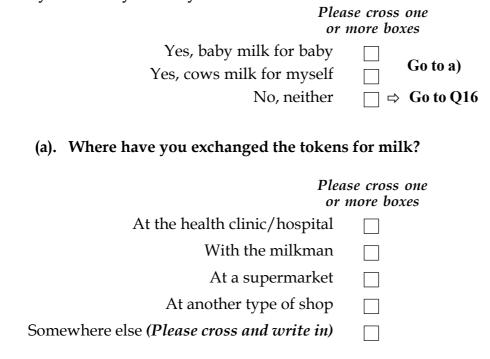
Have always used the same type of milk	$\Box \Rightarrow$ Go to Q15
Have used other types of milk	$\Box \Rightarrow \textbf{Go to Q14}$

Q14. Why did you change types of baby milk?

Please cross one or more boxes	
Baby was not satisfied/still hungry	
Baby kept being sick	
Baby was constipated	
Baby was allergic to the milk	
I preferred a different type to the one that I was given in hospital	
Other reason (<i>Please cross and write in</i>)	

Q15. Since the birth, have you received any free or reduced price milk for either yourself or your baby?

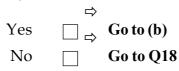
8



Q16. Do you give your baby tap or mineral water to drink at the moment (including boiled tap water)?



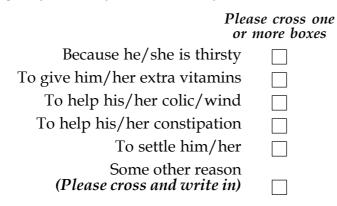
(a) Apart from tap or mineral water, are you giving your baby anything else to drink at the moment (such as fruit juice, squash or herbal drink)?



(b). Please list the drinks giving the brand name (or say if homemade) and the flavour and say if it is a special baby drink or not.

Brand (or homemade)	Flavour	if it is a bab drink	y
			office Use (

Q17. Do you give your baby drinks mainly...?



9

Q18. Has your baby ever had any foods such as cereal, rusk or any other kind of solid food?

Yes	$\Box \Rightarrow Go to (a)$
No	$\Box \Rightarrow Go to Q21$

(a). How old was your baby when he/she first had any food apart from milk? *Please write a number in the box*

Please write in the age to the
nearest whole week

Weeks old	

Q19. At present, are you regularly giving your baby cereal, rusks or any other solid food?

Yes	$\Box \Rightarrow Go to Q20$
No	$\Box \Rightarrow \mathbf{Go} \text{ to } \mathbf{Q21}$

Q20. Can you list all the cereal, rusks or solid food that your baby ate yesterday. Please describe each fully, giving the brand name and the stage (1 or 2) if relevant.

Didn't have solids yesterday $\square \Rightarrow$ **Go to Q21**

Type of food (and stage)	Brand (or homemade)	Office Use Only

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Q21. Do you give your baby any extra vitamins (apart from fruit drinks mentioned at Q16)?

Yes	$\Box \Rightarrow \operatorname{Goto}(a) \operatorname{and}(b)$
No	$\Box \Rightarrow$ Go to Q22

(a). Do you use Children's Vitamin Drops from the child health clinic or another brand?

Children's Vitamin Drops Other brand (*Please cross and write in*)

(b). How do you usually get the vitamins?

	Please cross one box only
Buy the vitamins myself at the child health clinic/hospita	
Buy the vitamins somewhere else	e 🗌
Get the vitamins free at the child clinic/hospita	ıl 🗌
Get vitamins on prescription	1 🗌
Other (Please cross and describe	

Yes	\Box \Rightarrow Go to (a) and (b)
No	\Box \Rightarrow Go to Q23

(a). What type of supplements are you taking?

	Please co one box o	
Iron onl	у 🗌	
Vitamins only	y 🗌	
Vitamins and iron combined	d	
Something else (<i>Please cross and describe</i>	e)	

(b). How do you usually get the vitamins or iron supplements?

	Please cross one box only
Buy the vitamins or iron supplement mysel at the child health clinic/hospita	
Buy the vitamins or iron supplements somewhere else	
Get the vitamins or iron supplements free at the child clinic/hospita	
Get vitamin or iron supplements on prescription	on 🗌
Other (Please cross and describe)

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Q23. Thinking back to when you became pregnant, did you know that increasing your intake of folic acid can be good for you in the early stages of pregnancy?

Yes	Go to (a)
No	Go to Q24

(a). Did you change your diet or take supplements to increase your intake of folic acid in the first few months of your pregnancy?

Please cross one or more boxes		
Yes, I changed my diet		
Yes, I took supplements		
No neither		

Q24. When you were pregnant, did you take any extra vitamin or iron supplements either in tablet or powder form?

Yes	Go to (a)
No	Go to Q25

(a). What type of supplements did you take?

1 1011	Please cross one or more boxes	
Iron only		
Vitamins only		
Vitamins and iron combined		
Something else (<i>Please cross and describe</i>)		

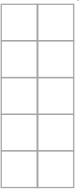
Q25. Thinking back to before you had your baby, how did you plan to feed him/her?

$\Box \Rightarrow$ Go to (a)
$\Box \Rightarrow \text{ Go to } Q26$

(a). Why did you think you would feed your baby by that method? (*Please give all your reasons and explain*)

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Q26. While you were pregnant did you have any antenatal check ups?

Yes	$\Box \Rightarrow$ Go to (a) and (b)
No	$\Box \Rightarrow$ Go to Q27

(a). When you went for your checkups did anyone ask how you planned to feed your baby?

Yes	
No	

(b). At the checkups did anyone discuss feeding your baby with you?

Yes	Go to (c)
No	Go to Q27

(c). Who discussed feeding your baby with you?

	Please cross one or more boxes	
Doctor		
Health visitor		
Midwife		
Nurse		
Someone else (<i>Please cross and write in</i>)		

Q27. While you were pregnant with this baby, did you go to any classes to prepare you

for having the baby?	
Yes	$\Box \Rightarrow$ Go to (a), (b) and (c)
No	□ ⇒ Go to Q28
(a). Who were the classes organised by?	
	se cross one more boxes
A hospital	
A clinic/doctor's surgery/health centre	
Voluntary organisation (such as the National Childbirth Trust)	
Someone else (<i>Please cross and write in</i>)	
(b). Did you attend any classes that inclu babies?	ded talks or discussions about feeding
Yes	$\Box \Rightarrow$ Go to (c)
No	□ ⇒ Go to Q28
(c). Were you taught how to make up bott	les of milk at the classes you attended?
Yes	
No	
While you were pregnant with this baby, di from any of the following medical staff or	
	se cross one more boxes
Doctor/GP	
Health visitor	\square
	\Box Co to 029

Q28. eastfeeding

or 1	nore boxes	
Doctor/GP		
Health visitor		
Midwife (including at antenatal classes)	Go to Q29	
Nurse (including at antenatal classes)		
Voluntary organisation (such as the National Childbirth Trust)		
Someone else (<i>Please cross and write in</i>)		
I didn't receive any advice	□ ⇒ Go to Q30	
If you have crossed more than one box at Q28 please answer Q29. If you have crossed only one box go to Q30		

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Q29. Thinking of the medical staff or organisations who gave you advice about breast feeding, who do you think gave you the most helpful advice.

Doctor/GP Health visitor Midwife (including at antenatal classes) Nurse (including at antenatal classes) Voluntary organisation (such as the	
Midwife (including at antenatal classes)	
Nurse (including at antenatal classes)	
Valuntary organization (such as the	
Voluntary organisation (such as the National Childbirth Trust)	
Someone else (<i>Please cross and write in</i>)	

Q30. When you were pregnant did anyone give you any advice or information about smoking during pregnancy?

Yes	Go to (a)
No	Go to Q31

(a). Who gave you this advice?

	lease cross one or more boxes
Doctor/GI	P
Health visito	r 🗌
Midwife (including at antenatal classes	
Nurse (including at antenatal classes	
Voluntary organisation (such as the National Childbirth Trust	
Friend or relative	e 🗌
Books/leaflets/magazine	s
Television /radio	0
Someone else (<i>Please cross and write in</i>	

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Q31. When you were pregnant did anyone give you advice or information about drinking alcohol during pregnancy?

Yes	⇒ Go to (a)
No	\Rightarrow Go to Q32

(a). Who gave you this advice?

Please cross one or more boxes		
Doctor/GP		
Health visitor		
Midwife (including at antenatal classes)		
Nurse (including at antenatal classes)		
Voluntary organisation (such as the National Childbirth Trust)		
Friend or relative		
Books/leaflets/magazines		
Television /radio		
Someone else (<i>Please cross and write in</i>)		

Q32. Did a midwife or health visitor see you at home in connection with your pregnancy before you had the baby?

	Yes, midwife Yes, health visitor No, neither	
Q33. Do	you know any mothers with young bab	ies?
	Yes	$\Box \Rightarrow$ Go to (a)
	No	$\Box \Rightarrow \textbf{Go to Q34}$
(a).	fed or breast fed? Plea	ers you know with young babies bottle ese cross one more boxes
	Most of them bottle fed	
	Most of them breast fed	
	About half of them bottle fed and half of them breast fed	
	Don't know	

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Q34. Do you know whether you were breast fed or bottle fed when you were a baby?

Ple	ase cross one box only	
Breast fed entirely		
Bottle fed entirely		
Both breast and bottle fed		
Don't know		
Section 6: About the birth of your baby		
Q35. Was your baby born in hospital or at hom	2?	
In hospital	$\Box \Rightarrow$ Go to (a)	
At home	□ ⇒ Go to Q36	
(a). How long after the baby was born did you stay in hospital? Please enter number in one box only		
Either How many hours did you spend in hospital		
	hours	
Or		

Q36. Thinking now of the birth itself, what type of delivery did you have?

Normal	
Forceps	
Vacuum extraction (ventouse)	
Caesarean	

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Q37. While you were in labour were you give	n any of these? ease cross one	
	r more boxes	
An epidural (spinal) injection		
Another type of injection to lessen the pain (eg pethidine)		
Gas and oxygen to breathe		
A general anaesthetic (to make you unconscious	3)	
Something else (<i>Please cross and write in</i>)		
Nothing at all		
Q38. How much did your baby weigh when h	e/she was born?	
Either		
What your baby weighed in pounds and ounces		
Or		
What your baby weighed in grams	gms	
Q39. About how long after your baby was born did you first hold him/her? Please cross one box only		
Immediately/within a few minutes		
Within an hour		
More than 1 hour, up to 12 hours		
More than 12 hours later		
Q40. After the birth were you alright or was a	nything the matter with you?	
Alright	□ ⇒ Go to Q41	
Something the matter	$\Box \Rightarrow$ Go to (a)	
(a). Did this problem affect your ability	to feed your baby the way you wanted to?	
Yes		
No		

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Q41. Was your baby put into special care at all, or put under a lamp for jaundice?

	se cross one more boxes
Yes, put into special care	
Yes, put under a lamp	☐ Go to (a) and (b)
No, neither	☐ ⇒ Go to Q42
(a). For how long was your baby put into s	special care or put under a lamp?
One day or less	
Two or three days	
Four days or more	
(b). Did having your baby in special care your baby the way you wanted to?	or under a lamp affect your ability to feed
Yes	
No	
Q42. During the first one or two feeds, did anyo the breast yourself? Yes No	$\Box \Rightarrow Go to (a), (b) and (c)$ $\Box \Rightarrow Go to (c)$
(a). Who was this?	
	use cross one more boxes
Midwife	
Nurse	
Doctor	
	└── Go to (b)
Friend/relative Someone else	
(Please cross and write in)	
(b). Did you find this helpful?	
Yes	
No	Go to Q43
(c). Would you have liked any help or adv	rice on how to put your baby to the breast?
Yes	
No	
INU	

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Section 7: About the times that you feed your baby

If you ever breast fed your baby please answer Question 43 If your baby was completely bottle fed from birth go on to Question 45

Q43. How soon after your baby was born did you first put him/her to the breast?

Please cross one box only

Immediately/within a few minutes	
Within half an hour	
More than ½ hour, up to 1 hour later	
More than 1 hour, up to 4 hours later	
More than 4 hours, up to 8 hours later	
More than 8 hours, up to 12 hours later	
More than 12 hours, up to 24 hours later	
More than 24 hours later	

If your baby was born in hospital please answer Question 44 If your baby was born at home please go on to Question 53

Q44. While you were in hospital did your baby have milk from a bottle (apart from expressed breast milk) as well as being breast fed?

Yes
$$\Box \Rightarrow$$
 Go to (a)
No \Box
Don't know \Box Go to Q47

(a). How often did your baby have a bottle in hospital (while you were breast feeding as well)?

	se cross pox only	
Once or twice only		
At every feed		
Just during the night		
Some other arrangements (<i>Please cross and describe</i>)		Go to Q46
Don't know		

Q45. How soon after he/she was born did you first feed your baby?

		ease cross e box only
Ir	nmediately/within a few minutes	
	Within half an hour	
	More than $\frac{1}{2}$ hour, up to 1 hour later	
Mc	re than 1 hour, up to 4 hours later	
Mor	e than 4 hours, up to 8 hours later	
More	than 8 hours, up to 12 hours later	
More	han 12 hours, up to 24 hours later	
	More than 24 hours later	

- Q46. When your baby was given a bottle of milk in hospital were you given a choice of what brand of milk you wanted to use (such as Cow and Gate, Milupa, SMA, etc)?
 - Yes [No [

Section 8: About when you were in hospital

If your baby was born at home please go to Question 53

Q47. Did your baby stay beside you all the time you were in hospital?

Yes	$\Box \Rightarrow Go to Q48$
No	$\Box \Rightarrow$ Go to (a)

(a). Even though he/she was not always beside you, did you always feed your baby yourself or did the midwives or nurses ever feed him/her?

Always fed baby myself	$\Box \Rightarrow \textbf{Go to Q48}$
Midwives/nurses sometimes fed baby	□ ⇒ Go to (b)

(b). What did the midwives/nurses give your baby?

-	Please cross one or more boxes
Expressed breast mi	ilk 🗌
Manufactured baby mi	ilk 🗌
Dextrose or glucose wat	ter
Wat	ter 🗌
Don't kno	ow 🗌

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Q48. Were there any problems feeding your baby while you were in hospital?

Yes	$\Box \Rightarrow$ Go to (a)
No	□ ⇒ Go to Q50

(a). What problems were there? (*Please describe*)

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Q49. Did anyone give you any help or advice about this/these problems?

	Yes	$\Box \Rightarrow$ Go to (a)
	No	$\Box \Rightarrow$ Go to Q50
	(a). Who helped or advised you?	
		ise cross one more boxes
	Midwife	\Box
	Nurse	
	Doctor	
	Friend/relative	
	Someone else (<i>Please cross and write in</i>)	
Q50.	While you were in hospital were you alw needed it?	ays able to get help or advice when you
	Yes - always	
	Yes - generally	
	No	

Q51. When you left hospital, were you ...

- breast feeding completely
- bottle feeding completely
- or giving both breast and bottle?

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Q52. After you left hospital did a midwife come to visit you?

• –	
Yes	$\Box \Rightarrow$ Go to (a)
No	⇒ Go to Q53
(a) How coor often you left been ital did ab	a
(a). How soon after you left hospital did sh	
Same day Next day	
Two or more days later	
Section 9: About help for you at home	
253. After you left hospital, did you feel you k	new how to get help with feeding you
baby if your needed to? (If your baby was born at home, please base	2 your answer from when your baby was
born).	gem meeter jrem unen gem eneg um
Yes	
No	
Q54. Since your baby was born has a health visi Yes No	tor been to see you? □ ⇔ Go to (a) □ ⇔ Go to Q55
Yes	 □ ⇒ Go to (a) □ ⇒ Go to Q55
Yes No (a). How old was your baby when the heal	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came?
Yes No (a). How old was your baby when the heal	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old
Yes No (a). How old was your baby when the heal Please write in the total number of days	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u Yes No	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old ap yet? □ ⇒ Go to (a) □ ⇒ Go to Q56
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u Yes No (a). Where did your baby have the develop Plea	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old ap yet? □ ⇒ Go to (a) □ ⇒ Go to Q56
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u Yes No (a). Where did your baby have the develop Plea	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old ap yet? □ ⇒ Go to (a) □ ⇒ Go to Q56 pment check-up? se cross one
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u Yes No (a). Where did your baby have the develop Plea t At the child health clinic/hospital	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old ap yet? □ ⇒ Go to (a) □ ⇒ Go to Q56 pment check-up? se cross one
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u Yes No (a). Where did your baby have the develop Plea At the child health clinic/hospital At your family doctor's (GP)	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old ap yet? □ ⇒ Go to (a) □ ⇒ Go to Q56 pment check-up? se cross one
Yes No (a). How old was your baby when the heal Please write in the total number of days Q55. Has your baby had a development check-u Yes No (a). Where did your baby have the develop Plea t At the child health clinic/hospital	 □ ⇒ Go to (a) □ ⇒ Go to Q55 th visitor first came? days old ap yet? □ ⇒ Go to (a) □ ⇒ Go to Q56 pment check-up? se cross one

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Yes	
No	

Q57. Since you left hospital have you had any problems with feeding your baby? (If your baby was born at home, please answer about any feeding problems since the birth).



(a). What problems were there? (*Please describe*)

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Q58. Did anyone give you any help or advice about this/these problems?

Yes	$\Box \Rightarrow$ Go to (a)
No	□ ⇒ Go to Q59
(a). Who helped or advised you?	
Ple	ase cross one
or	more boxes
Doctor/GP	
Health visitor	
Midwife	
Nurse	
Friend or relative	
Books/leaflets/magazines	
Someone else (<i>Please cross and write in</i>)	

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Q59. During your pregnancy or since the birth of your baby were you given a copy of any of these books?

	Please cross one
The Pre	or more boxes
	to Five book
"Ready Steady Baby" (S	
"Breast feeding and returning to work" (S	
"Breast feeding-getting off to a good start" (S	cotland only)
Q60. In which position do you usually place you	1r baby to sleep?
On his/her back	
On his/her front	
On his/her side	
Varies	
Section 10: About yourself	
Q61. Have you ever smoked cigarettes?	
Yes	$\Box \Rightarrow$ Go to (a)
Yes No	 □ ⇒ Go to (a) □ ⇒ Go to Q65
	□ ⇒ Go to Q65
No (a). Have you smoked at all in the last two	\Box ⇒ Go to Q65 years, that is since October 1998?
No	□ ⇒ Go to Q65
No (a). Have you smoked at all in the last two Yes	 □ ⇒ Go to Q65 years, that is since October 1998? □ ⇒ Go to (b)
No (a). Have you smoked at all in the last two Yes	 □ ⇒ Go to Q65 years, that is since October 1998? □ ⇒ Go to (b)
No (a). Have you smoked at all in the last two Yes No	 □ ⇒ Go to Q65 years, that is since October 1998? □ ⇒ Go to (b) □ ⇒ Go to Q65
No (a). Have you smoked at all in the last two Yes No (b). Do you smoke cigarettes at all now?	 □ ⇒ Go to Q65 years, that is since October 1998? □ ⇒ Go to (b)
No (a). Have you smoked at all in the last two Yes No (b). Do you smoke cigarettes at all now? Yes	 □ ⇒ Go to Q65 years, that is since October 1998? □ ⇒ Go to (b) □ ⇒ Go to Q65

Q62. Did you smoke cigarettes at all during pregnancy, after you found out you were pregnant?

Yes	\Rightarrow Go to Q64
No	\Rightarrow Go to Q65

Q63. When did you finally give up?

	Before you knew you were pregnant
Go to Q65	As soon as you found out you were pregnant
	Later on during your pregnancy
Go to Q64	After the birth

Q64. Since you knew about your pregnancy, did you do either of the following during your pregnancy? Please cross one or more boxes

nere comes

Q65. During your pregnancy, did any of the people you lived with smoke cigarettes?

Yes, my partner smoked

Yes, someone else I lived with smoked

No, nobody else who I lived with smoked

Not applicable - I lived alone

(a). Do any of the people who live with you now smoke cigarettes?

Yes, my partner smokes	
Yes, someone else I live with smokes	
No, nobody else who I live with smokes	
Not applicable - I live alone with my baby	

Q66. Do you ever drink alcohol nowadays, including drinks you brew or make at home? (Please exclude low or non alcoholic drinks)

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Yes	Go to Q68
No	Go to Q67

Q67. Have you drunk alcohol at all during the past two years?

Yes		Go to Q68
No	□⇒	Go to Q72

Q68. Thinking back to when you were pregnant please cross the box that best describes how often you usually drank each of the alcoholic drinks listed below.

(Please exclude low or non alcoholic drinks)

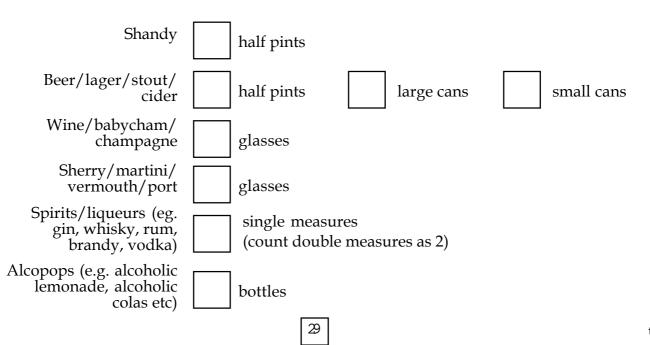
During pregnancy I usually drank:

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	Most days	3-4 times a week	Once or twice a week	Once or twice a month	Very occasionally	Not at all
Shandy						
Beer/lager/stout/cider						
Wine/babycham/ champagne						
Sherry/martini/ vermouth/port						
Spirits/liqueurs (eg. gin, whisky, rum, brandy, vodka)						
Alcopops (eg. alcoholic lemonade, alcoholic colas, alcoholic fruit flavoured drinks)						

Please check that there is a cross in one box on each line

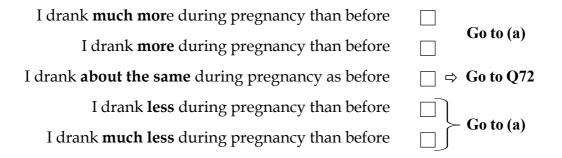
Q69. For each type of drink you say that you had when you were pregnant, please write in the boxes the amount you usually drank each time that you had a drink. (If none write 0)



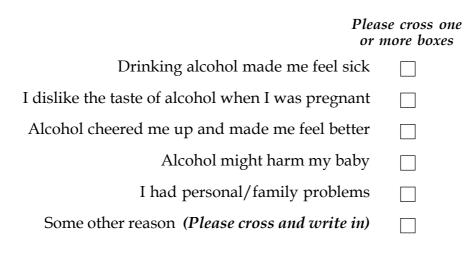
Q70. Thinking about ALL kinds of alcoholic drinks, how often did you have an alcoholic drink of any kind during pregnancy?

Most days	
3-4 times a week	
Once or twice a week	
Once or twice a month	
Less than once a month	
Not at all	

Q71. During your pregnancy would you say you drank more, less or about the same amount of alcohol than before you were pregnant?

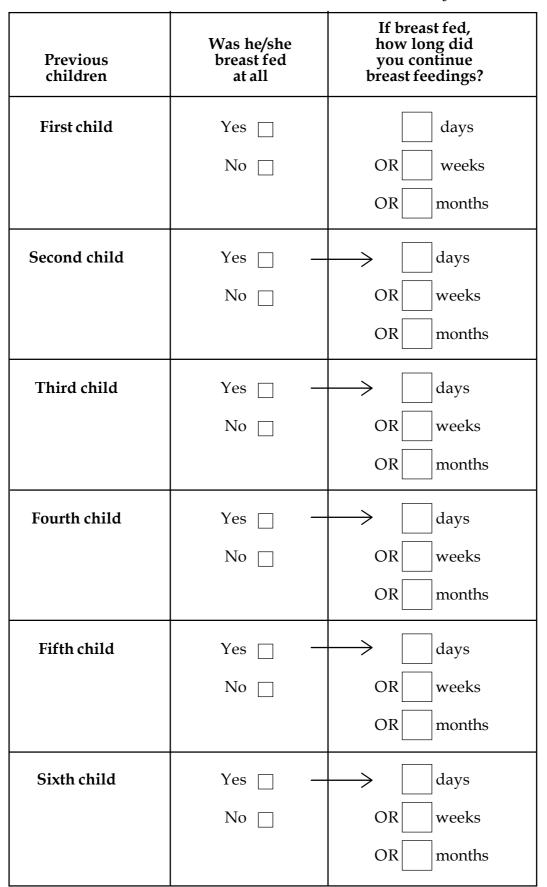


(a). Why did you change your drinking habits during pregnancy?



30

Q72. If this is not your first baby, we would like to know how you fed your previous children. Please fill in the details below, but *do not include your latest baby*.



31

i

Q73. Whichever method you used to feed your baby this time, did you ever feel pushed into making this decision?

Yes, felt pushed into breastfeeding	
Yes, felt pushed into bottlefeeding	
No, neither	□ ⇒ Go to Q74

	se cross one more boxes
Midwife	
Health visitor	
Doctor/GP	
Nurse	
Partner	
Mother	
Grandmother	
Friends/other mothers	
Voluntary organisation (eg. National Childbirth Trust)	

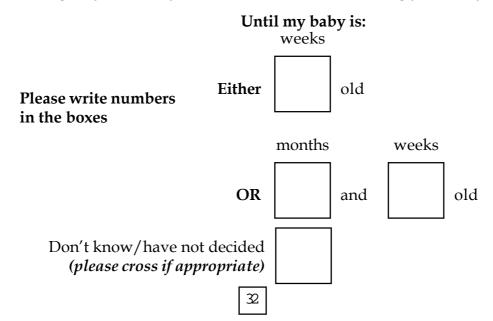
If your baby was entirely bottle fed from birth please go to Q76 If you ever breast fed your baby, please answer Q74

Q74. If you had another baby would you breast feed again?

Yes	
No	

If you are now completely bottle feeding your baby, go to Q76 If you are breast feeding your baby, answer Q75

Q75. For how long do you think you will continue breast feeding your baby?



t

Q76. Are you aware of the health benefits in breast feeding?

Yes	Go to (a)
No	Go to Q77

(a). What health benefits are you aware of? (*Please describe*)

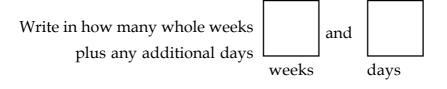
С	office U	Jse On	ly

The following question is about your family planning

Q77. Since your baby was born have you used either the combined pill or mini-pill (progesterone only) to prevent pregnancy?



(a). How old was your baby when you began to take the pill?



And finally, a few questions about yourself

Q78. What is your present age?

Under 20	
20, up to 24	
25, up to 29	
30, up to 34	
35 or over	

Q79. How old were you when you finished full-time education? (School or college, whichever you last attended full-time)

16 or under	
17	
18	
19 or over	

Q80. Are you doing any paid work at the moment?

Yes	
On paid maternity leave	Go to Q81
On unpaid maternity leave	
No	$\Box \Rightarrow$ Go to (a)

(a). Do you plan to start work again within the next two years?

Yes, full-time	
Yes, part-time	
No	Go to Q82
Don't know	

- Q81. What is the title of your job? (If you have more than one job please give details of your main job)
 - (a). What do you mainly do in your job?
 Office Use Only

 Please write in
 SOC

 ES
 I

- (b). What does the firm or organisation you work for make or do at the site where you work?
- (c). Are you . . .

an employee	$\Box \Rightarrow \operatorname{Goto}(d)$
or self-employed?	□ ⇒ Go to (e)

(d). Do you have any managerial duties or do you supervise any other employees?

Yes, manager	
Yes, supervisor	
No, neither	

(e). Do you work mainly at home or do you go out to work?

Mainly at home	
Go out to work	

35

Q82.	What was your job before you had your first baby?
	(If unemployed please describe your previous job)

Same as present job	
Never worked before first baby	

Go to Q83

(a). What was the title of your job? (if you had more than one job, please give details of your main job)

(b). What did you mainly do in your job? *Please write in*

	Office Use Only		
SOC			
ES			

(c). What did the firm or organisation you worked for make or do at the site where you worked?

(d). Were you ...

an employee	$\Box \Rightarrow$ Go to (e)
or self-employed?	$\Box \Rightarrow \text{Go to } Q83$

(e). Did you have any managerial duties or did you supervise any other employees?

Yes,	manager
------	---------

- Yes, supervisor
 - No, neither

36

Q83. Are you	•
--------------	---

		married living together single widowed, divorced or separated?		Go to Q84 Go to Q86
Q84.	Is y	your husband/partner in paid job at pre	sent?	
		Yes No		Go to Q85
Q85.	(If	hat is the title of your husband's/partner unemployed, please describe his previous he has more than one job, please give det	s job)	is main job)
	(a).	Husband/partner never had a paid job What does he mainly do in his job? Please write in		Go to Q86
	(b).	. What does the firm or organisation he works?	work fo	r make or do at the site where he
	(c).	Is he an employee or self-employed?		Go to (d) Go to Q86
	(-)			

(d). Does he have any managerial duties or does he supervise any other employees?

Yes, manager	
es, supervisor	

- Yes, supervisor
 - No, neither

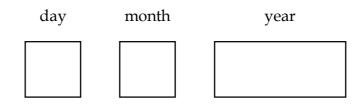
37

t Q86. What is your ethnic group?

your ethnic group?	
Ple	ase cross one box only
British	
Irish	
Any other White background (please cross and write in)	
Mixed	
White and Black Caribbean	
White and Black African	
White and Asian	
Any other mixed background (please cross and write in)	
Asian or Asian British	
Indian	
Pakistani Bangladashi	
Bangladeshi	
Any other Asian background (please cross and write in)	
Black or Black British	
Caribbean	
African	
Any other Black background (please cross and write in)	
Chinese or Other ethnic group	
Chinese	
Any other (please cross and write in)	

Yes	☐ ⇒ Please write in below
No	

Please give the date when you filled in this questionnaire



Was there anything you intended to go back and complete? *Please check.*

Thank you very much for your help.

We hope to contact mothers again later to see how they are feeding their babies when they are older. If the address on the envelope was not complete or if you expect to move house in the near future and know your new address, it would help us if you could write it below:

t

1154-598 England/Wales/Scotland Stage 2

Survey of Infant Feeding



E

January/February 2001

IN CONFIDENCE

What is the questionnaire about?

This questionnaire asks about you and your new baby.

If, rather than a single baby, you have twins or triplets, please answer the questionnaire in relation to the one who was born first.

If, for any reason, your baby is no longer with you, please cross the box below and return the questionnaire to us so we do not trouble you further.

My baby is no longer with me

Our guarantee of confidentiality

The names and addresses of people who co-operate in surveys are held in strict confidence by BMRB. We will never pass your name or address to any Government Department, business, the media or members of the public.

How to fill in the questionnaire

1. Most questions on the following pages can be answered simply by putting a cross in the box next to the answer that applies to you.

Example:	Yes	\mathbf{X}
	No	

Sometimes you are asked to write in a number or the answer in your own words. Please enter numbers as figures rather than words.

2. Occasionally you may have more than one answer to a question. Please cross all the boxes next to the answers that apply to you if the instruction "**Please cross one or more boxes**" is printed on top of the boxes.

3. Sometimes you are asked to give an age or a length of time in weeks and days, or days and hours. Please follow the instructions very carefully.

For example:

How old is your baby?

If your baby is 15 weeks and 2 days old enter the number of whole weeks plus any additional days

Please enter numbers in both boxes

	15	and	2	
v	veeks	5	days	

4. Usually after answering each question you go on to the next one unless a box you have crossed has an arrow next to it with an instruction to go to another question.

Example:	Yes	ð	Go to Q8.
	No		

By following the arrows carefully you will miss out some questions which do not apply, so the amount you have to fill in will make the questionnaire shorter than it looks.

- **5.** If you cannot remember, do not know, or are unable to answer a particular question please write that in.
- **6.** When you have finished please post the questionnaire to us as soon as possible in the reply-paid envelope provided, even if you were not able to answer all of it.

We are very grateful for your help

If you have twins or triplets please complete this questionnaire with respect to the one who was born first.

Q1. May I just check, what is your baby's first name? *Please write in below - 1 letter per box.*

ſ								

Q2. How old is your baby?

t

Please write numbers in both boxes

 Write in how many whole weeks plus any additional days
 and

 weeks
 days

Q3. Are you still breast feeding your baby at all?

t

Yes	ð	Go to (a), (b) and (c)
No	ð	Go to Q4

(a). Do you breast feed you baby on demand or do you generally keep to set feeding times?

On demand	
Generally keep to set times	
It depends on the circumstances	

(b). How often do you breast feed your baby now?

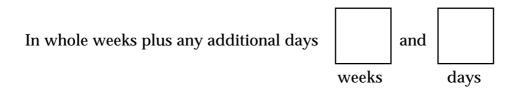
Once a day		
Twice a day		
3-4 times a day		
5-6 times a day		
7-8 times a day		
more than 8 times a day		
(Please cross and write in number of times) $$		

(c). Do you give your baby milk from a bottle at present (apart from expressed breast milk)?

Yes	ð	Go to Q6
No	ð	Go to Q10

Q4. How old was your baby when you last breast fed him/her?

Please write numbers in both boxes



(a). What were your reasons for stopping breast feeding? *Please write in the reasons*

Q5. Would you have liked to continue breast feeding for longer or had you breast-fed for as long as you intended?

5

Would have liked to breastfeed longer	
I had breast fed for as long as intended	

^t **Q6.** Which kind of milk do you give your baby most of the time at the moment?

Cow and Gate Premium		lease cross <u>1e</u> box only
Cow and Gate Omneo Comfort 1		
Cow and Gate Step 1Cow and Gate Omneo Comfort 2Cow and Gate Next StepsSMA GoldSMA GoldSMA WhiteSMA ProgressMilupa MilumilMilupa Aptamil FirstMilupa Aptamil FirstMilupa Aptamil ExtraMilupa ForwardFarley's FirstFarley's Follow-on milkBoots Follow-on milkBoots Follow-on Banana FlavourSainsburys First Menu Stage 1 milkSainsburys First Menu Stage 2 milkHipp Organic Infant MilkHipp Organic Infant MilkHipp Organic Follow-on Milk DrinkSoya-based Formula	Cow and Gate Plus	
Cow and Gate Omneo Comfort 2Cow and Gate Next StepsSMA GoldSMA GoldSMA WhiteSMA ProgressMilupa MilumilMilupa Aptamil FirstMilupa Aptamil ExtraMilupa ForwardFarley's FirstFarley's SecondFarley's Follow-on milkBoots Formula 1Boots Formula 2Boots Follow-on milkBoots Follow-on Strawberry FlavourSainsburys First Menu Stage 1 milkSainsburys First Menu Stage 2 milkHipp Organic Infant MilkHipp Organic Follow-on Milk DrinkSoya-based Formula	Cow and Gate Omneo Comfort 1	
Cow and Gate Next Steps	Cow and Gate Step 1	
SMA Gold	Cow and Gate Omneo Comfort 2	
SMA White	Cow and Gate Next Steps	
SMA ProgressMilupa MilumilMilupa Aptamil FirstMilupa Aptamil ExtraMilupa ForwardFarley's FirstFarley's SecondFarley's SecondFarley's Follow-on milkBoots Formula 1Boots Formula 2Boots Follow-on milkBoots Follow-on Strawberry FlavourSainsburys First Menu Stage 1 milkSainsburys First Menu Stage 2 milkHipp Organic Infant MilkHipp Organic Infant MilkHipp Organic Follow-on Milk DrinkSoya-based Formula	SMA Gold	
Milupa Milumil	SMA White	
Milupa Aptamil FirstIMilupa Aptamil ExtraIMilupa ForwardIFarley's FirstIFarley's SecondIFarley's Follow-on milkIBoots Formula 1IBoots Formula 2IBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on Banana FlavourIBoots Follow-on Strawberry FlavourISainsburys First Menu Stage 1 milkISainsburys First Menu Stage 2 milkIHipp Organic Infant MilkIHipp Organic Follow-on Milk DrinkISoya-based FormulaI	SMA Progress	
Milupa Aptamil ExtraIMilupa ForwardIFarley's FirstIFarley's SecondIFarley's Follow-on milkIFarley's Follow-on milkIBoots Formula 1IBoots Formula 2IBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on milkIBoots Follow-on Banana FlavourIBoots Follow-on Strawberry FlavourISainsburys First Menu Stage 1 milkISainsburys First Menu Stage 2 milkIHipp Organic Infant MilkIHipp Organic Follow-on Milk DrinkISoya-based FormulaI	Milupa Milumil	
Milupa Forward	Milupa Aptamil First	
Farley's First	Milupa Aptamil Extra	
Farley's Second	Milupa Forward	
Farley's Follow-on milk Boots Formula 1 Boots Formula 2 Boots Follow-on milk Boots Follow-on Banana Flavour Boots Follow-on Banana Flavour Boots Follow-on Strawberry Flavour Sainsburys First Menu Stage 1 milk Sainsburys First Menu Stage 2 milk Sainsburys First Menu Follow-on milk Hipp Organic Infant Milk Hipp Organic Follow-on Milk Drink Soya-based Formula	Farley's First	
Farley's Follow-on milk Boots Formula 1 Boots Formula 2 Boots Follow-on milk Boots Follow-on Banana Flavour Boots Follow-on Banana Flavour Boots Follow-on Strawberry Flavour Sainsburys First Menu Stage 1 milk Sainsburys First Menu Stage 2 milk Sainsburys First Menu Follow-on milk Hipp Organic Infant Milk Hipp Organic Follow-on Milk Drink Soya-based Formula	Farley's Second	🗌 👌 👌 Go to Q6b
Boots Formula 1IBoots Formula 2IBoots Follow-on milkIBoots Follow-on Banana FlavourIBoots Follow-on Strawberry FlavourISainsburys First Menu Stage 1 milkISainsburys First Menu Stage 2 milkISainsburys First Menu Follow-on milkIHipp Organic Infant MilkIHipp Organic Follow-on Milk DrinkISoya-based FormulaI	Farley's Follow-on milk	
Boots Follow-on milk Boots Follow-on Banana Flavour Boots Follow-on Strawberry Flavour Boots Follow-on Strawberry Flavour Sainsburys First Menu Stage 1 milk Sainsburys First Menu Stage 2 milk Sainsburys First Menu Follow-on milk Hipp Organic Infant Milk Hipp Organic Follow-on Milk Drink Soya-based Formula	Boots Formula 1	
Boots Follow-on Banana Flavour	Boots Formula 2	
Boots Follow-on Strawberry Flavour Sainsburys First Menu Stage 1 milk Sainsburys First Menu Stage 2 milk Sainsburys First Menu Follow-on milk Hipp Organic Infant Milk Hipp Organic Follow-on Milk Drink Soya-based Formula	Boots Follow-on milk	
Sainsburys First Menu Stage 1 milk Sainsburys First Menu Stage 2 milk Sainsburys First Menu Follow-on milk Hipp Organic Infant Milk Hipp Organic Follow-on Milk Drink Soya-based Formula	Boots Follow-on Banana Flavour	
Sainsburys First Menu Stage 2 milk Sainsburys First Menu Follow-on milk Hipp Organic Infant Milk Hipp Organic Follow-on Milk Drink Soya-based Formula	Boots Follow-on Strawberry Flavour	
Sainsburys First Menu Follow-on milk	Sainsburys First Menu Stage 1 milk	
Hipp Organic Infant Milk	Sainsburys First Menu Stage 2 milk	
Hipp Organic Follow-on Milk Drink	Sainsburys First Menu Follow-on milk	
Soya-based Formula	Hipp Organic Infant Milk	
	Hipp Organic Follow-on Milk Drink	
J		
Liquid cow's milk Another kind of milk (Please cross and write in the name) \Box ð Go to Q6b	Another kind of milk	

Q6	6 (a). If you use liquid cow's milk, is it whole milk, semi-skimmed or skimmed?		
		Whole	
		Semi-skimmed	□ ├Go to Q7
		Skimmed	
	(b).	Thinking of the milk that you giv normally use powdered milk, rea	ve your baby most of the time, do you dy to feed milk or both?
		Powdered	
		Ready to feed	
		Both	
·	U	ever add anything to the baby mill Yes No	 d Go to (a) d Go to Q8
			ð Go to Q8
	(a). Wha	at do you add to the baby milk?	
			se cross one more boxes
		Sugar	
		Honey	
		Tea	
	Somethin	ng else (Please cross and write in)	

How old was your baby when you started giving this kind of milk? **Q8**.

7

Please write number in the box to the nearest whole week

weeks old

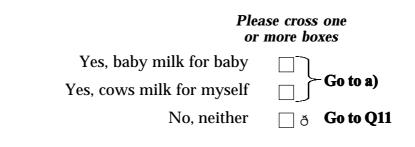
t

From a supermarket

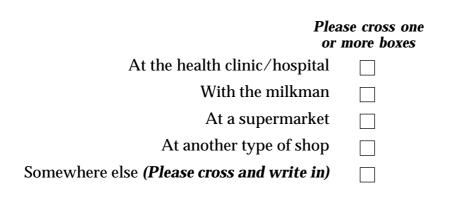
From another type of shop

Somewhere else (*Please cross and write in*)

Q10. Since the time you filled in the previous questionnaire, have you received any free or reduced price milk for either yourself or your baby?



(a). Where have you exchanged the tokens for milk?



t

Q9.

t

t

Q11. Do you give your baby plain tap or mineral water to drink at the moment (including boiled tap water)?

Yes	ð	Go to a).
No	ð	Go to Q12

(a). Do you add sugar or honey to the water that you give to your baby?

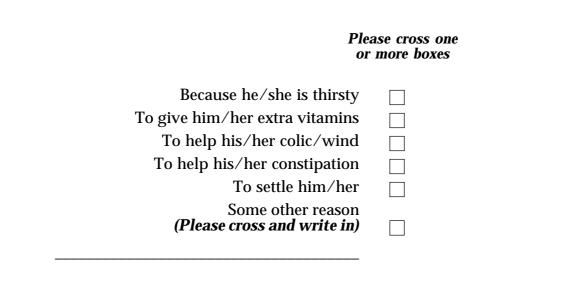
Sugar	
Honey	
Neither	

- Q12. Apart from tap or mineral water, are you giving your baby anything else to drink at the moment (such as fruit juice, squash or herbal drink)?
 - Yes
 ∂
 Go to (a).

 No
 ∂
 Go to Q14
 - (a). Please list the drinks giving the brand name (or say if homemade) and the flavour and say if it is a special baby drink or not.

Brand (or homemade)	Flavour	Please cross if it is a baby drink

t



Q14. Has your baby ever had any foods such as cereal, rusk or any other kind of solid food?

Yes	ð	Go to (a).
No	ð	Go to Q20

(a). How old was your baby when he/she first had any food apart from milk? *Please write a number in the box*

Please write in the age to the nearest whole week

Weeks old

Q15. Can you list all the cereal, rusks or solid food that your baby ate yesterday. Please describe each fully, giving the brand name or saying if it is home made. For commercial baby food, please tick the column to show whether it was dried or tinned/jarred.

		Please tick to show whether	
Type of food (and stage)	Brand (or homemade)	Dried	Tinned/ Jarred

Didn't have solids yesterday

🗌 ð Go to Q16

Q16. Do you use milk to mix up your baby's food?

Yes	🗌 ð Go to (a).
No	🗌 ð Go to Q17

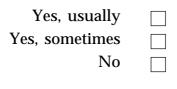
(a). Do you usually use

Infant formula milk	
---------------------	--

or Liquid cow's milk

or something else (please cross and write in)

Q17. When you give your baby solid food, do you give him/her fruit juice or other drinks containing vitamin C at the same time?

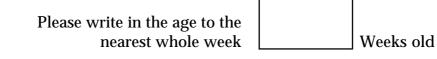


11

Q18. Does your baby usually have three meals of solid food a day?

Yes	Go to (a).
No	Go to Q19

(a). How old was your baby when he/she regularly started having three meals of solid foods a day?



Q19. What do you take into account when deciding what solid foods to give your baby? Please write in

Section 3: About vitamins for your baby and yourself

Q20. Do you give your baby any extra vitamins (apart from fruit drinks mentioned at Q12)?

Yes	\Box ð Go to (a) and (b)
No	🔲 ð Go to Q21

(a). Do you use Children's Vitamin Drops from the child health clinic or another brand?

Children's Vitamin Drops	
Other brand (Please cross and write in)	

(b). How do you usually get the vitamins?

	Please cross one box only
Buy the vitamins myself at the child health clinic/hospita	
Buy the vitamins somewhere else	e 🗌
Get the vitamins free at the child clinic/hospita	ıl 🗌
Get vitamins on prescription	n 🗌
Other (Please cross and describe)

Yes	ð	Go to (a) and (b)
No	ð	Go to Q22

(a). What type of supplements are you taking?

Please cross
one box only

Iron only
Vitamins only
Vitamins only
Vitamins and iron combined
Something else (Please cross and describe)

(b). How do you usually get the vitamins or iron supplements?

	Please cross one box only	
Buy the vitamins or iron supplement myse at the child health clinic/hospita		
Buy the vitamins or iron supplement somewhere els		
Get the vitamins or iron supplements free at th child clinic/hospita		
Get vitamin or iron supplements on prescription	on 🗌	
Other (Please cross and describe	e) 🗌	

Section 4: About check-ups for your baby

Q22. Do you take your baby to a child health clinic for advice or regular check ups?

Yes, for advice or regular check-ups	ð	Go to (a).
No	٦ð	Go to Q23

(a). About how often do you take your baby to a child health clinic?

Please cross one box only			
Once a week			
Once a fortnight			
Once a month			
Less than once a month			

Q23. Do you take your baby to your family doctor (GP) for advice or regular check-ups?

Yes, for advice or regular check-ups	ð	Go to (a).
No	ð	Go to Q24

(a). About how often do you take your baby to your family doctor (GP) for advice or regular check-ups?

Please	e cr	oss	one
bo	x o	only	

Once a week	
Once a fortnight	
Once a month	
Less than once a month	

Section 5: About advice for you about feeding your baby

Q24. Have you had any problems with feeding your baby since the time when you filled in the previous questionnaire?

Yes	ð	Go to (a).
No	ð	Go to Q26

(a). What problems have you had? (Please describe)

Q25. Did anyone give you help or advice about these problems?

Yes	🗌 ð Go to (a).
No Have not asked for help or advice	Go to Q26
	se cross one more boxes
Doctor/GP	
Health visitor	
Nurse	
Voluntary organisation (such as	
the National Childbirth Trust)	
Friend or Relative	
Books/leaflets/magazines	
Someone else (please cross and write in)	

16

Q26. Has anyone given you help or advice on breast feeding since the time you filled in the previous questionnaire?

Yes	🗌 ð Go to (a).
No Have not asked for help or advice	Go to Q27
(a). Who helped or advised you on breast	feeding?
	se cross one more boxes
Doctor/GP	
Health visitor	
Nurse	
Voluntary organisation (such as the National Childbirth Trust)	
Friend or Relative	
Books/leaflets/magazines	
Someone else (please cross and write in)	
ч , , , , , , , , , , , , , , , , , , ,	

Q27. Have you ever wanted or tried to feed your baby when you were out in public places?

Yes	ð	Go to (a)
No	ð	Go to Q28

(a) Have you ever had problems finding somewhere to feed your baby when you were out in public places?

Yes	
No	

Q28. Have you ever breast fed your baby in a public place? (Please exclude hospitals)

	Yes No Bottle fed from birth	 j Go to (a). Go to Q29
	(a). When you have breast fed in a public	place do you:
		se cross one box only
	prefer a mother and baby room?	
	prefer to breastfeed without going to any special place? no preference	
Q29.	Where do you think that it is important to	have facilities for feeding babies?
		se cross one more boxes
	Shops/shopping centres	

Public toilets	
Other places (<i>please cross and write in</i>)	

Section 6: About yourself

Q30. Do you smoke cigarettes at all nowadays?

Yes	ð	Go to (a).
No	٥	Go to Q31

(a) About how many cigarettes a <u>day</u> do you usually smoke now?

Please write a number in the box



	Yes No No partner	$\Box \xrightarrow{\delta} Go \text{ to (a).}$
	(a) About how many cigarettes a <u>day</u> does smoke now?	s your husband/partner usually
	Please write the number in the box	
Q32.	And do you live with anyone else (other t	nan a husband/partner) who smokes?
	Yes No	

The following question is about your use of contraception.

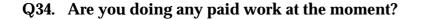
Q33. Since your baby was born have you used either the combined pill or mini-pill (progesterone only) to prevent pregnancy?



(a) How old was your baby when you began to take the pill?

Please write in how many weeks to the nearest whole week

Section 7: About your plans for work



Yes	
On paid maternity leave	Go to Q35
On unpaid maternity leave	
No	📄 _ð Go to (a).
/ · · · · · · · · · · · · · · · · · · ·	
(a). Do you intend to return to work withi	n the next year?
(a). Do you intend to return to work withi Yes	n the next year? $\Box \eth \mathbf{Go} \text{ to } \mathbf{Q38}$

- Q35. What is the title of your job (including where you are on maternity leave)? (If you have more than one job please give details of your main job)
 - (a). What do you mainly do in your job? *Please write in*
 - (b). What does the firm or organisation you work for make or do at the site where you work?
 - (c). Are you . . .

an employee 🛛 🗌	ployee 🗌
-----------------	----------

or self-employed?

(d). Do you have any managerial duties or do you supervise any other employees?

Yes,	manager	
------	---------	--

Yes, supervisor

No, neither

(e). Do you work mainly at home or do you go out to work?

Mainly at home	
Go out to work	

36. How many hours a week do you work?	
Less than 15	
15, less than 30	
31 or more hours	
Varies	
(a). How is your baby cared for while you	are at work?
	se cross one nore boxes
Childminder/Nanny	
Work-place creche or nursery	
Other creche or nursery	
Husband or partner	
The child's grandparent(s)	
Another relative	
Friend	
Other person/place (<i>Please describe</i>)	
Do not use any childcare	
(b). Has your return to work affected the w all?	ay in which you are feeding your baby at

- Yes ☐ ð Go to c) No ☐ ð Go to Q40
- (c). How has this affected the way in which you feed your baby? *Please write in*

If you are currently on paid or unpaid maternity leave, please answer Q37 If you are currently working, please answer Q40

Q37. Do you intend to return to work when your maternity leave has come to an end?

	Yes	🗌 ð Go to Q38
	No	
	Undecided	}ð Go to Q40
	What age will your baby be when you ret	urn to work?
v	4 months, less than 5 months	
	5 months, less than 6 months	
	6 months, less than 9 months	
	9 months, less than 1 year	
	1 year or older	
	Undecided	
	(a). How many hours do you intend to we	ork?
	Less than 15	
	15, less than 30	
	31 or more hours	
	Will vary	
	Undecided	
	(b). What type of childcare do you intend	to use?
	Plea	ase cross one
	<i>or</i> Childminder/Nanny	more boxes
	Work-place creche or nursery	
	Other creche or nursery	
	Husband or partner	
	The child's grandparent(s)	
	Another relative	
	Friend	
	Other person/place (<i>Please describe</i>)	
	Not yet decided	
	Do not intend to use any childcare	

Q39. Do you think your return to work will affect the way in which you feed your baby?

 Yes
 □
 Go to a).

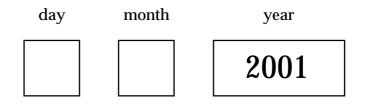
 No
 □
 Go to Q40

(a). How do you think that this will affect the way in which you feed your baby? *(Please write in)*

Q40. Is there anything else you would like to say about feeding your baby?

Yes	ð	Please write in below
No		

Please give the date when you filled in this questionnaire



23

Please turn over

Was there anything you intended to go back and complete? *Please check.*

Thank you very much for your help.

We hope to contact mothers again later to see how they are feeding their babies when they are older. If the address on the envelope was not complete or if you expect to move house in the near future and know your new address, it would help us if you could write it below:

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1154-598 England/Wales/Scotland Stage 3

Survey of Infant Feeding



J

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June/July 2001

IN CONFIDENCE

What is the questionnaire about?

This questionnaire asks about you and your new baby.

If, rather than a single baby, you have twins or triplets, please answer the questionnaire in relation to the one who was born first.

If, for any reason, your baby is no longer with you, please cross the box below and return the questionnaire to us so we do not trouble you further.

My baby is no longer with me

Our guarantee of confidentiality

The names and addresses of people who co-operate in surveys are held in strict confidence by BMRB International. We will never pass your name or address to any Government Department, business, the media or members of the public.

How to fill in the questionnaire

1. Most questions on the following pages can be answered simply by putting a cross in the box next to the answer that applies to you.

Example:	Yes	\mathbf{X}
	No	

Sometimes you are asked to write in a number or the answer in your own words. Please enter numbers as figures rather than words.

2. Occasionally you may have more than one answer to a question. Please cross all the boxes next to the answers that apply to you if the instruction "**Please cross one or more boxes**" is printed on top of the boxes.

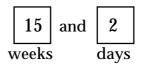
3. Sometimes you are asked to give an age or a length of time in weeks and days, or days and hours. Please follow the instructions very carefully.

For example:

How old is your baby?

If your baby is 15 weeks and 2 days old enter the number of whole weeks plus any additional days

Please enter numbers in both boxes



4. Usually after answering each question you go on to the next one unless a box you have crossed has an arrow next to it with an instruction to go to another question.

Example:	Yes	ð	Go to Q8.
	No		

By following the arrows carefully you will miss out some questions which do not apply, so the amount you have to fill in will make the questionnaire shorter than it looks.

- **5.** If you cannot remember, do not know, or are unable to answer a particular question please write that in.
- **6.** When you have finished please post the questionnaire to us as soon as possible in the reply-paid envelope provided, even if you were not able to answer all of it.

We are very grateful for your help

If you have twins or triplets please complete this questionnaire with respect to the one who was born first.

Q1. May I just check, what is your baby's first name? *Please write in below - 1 letter per box.*

Q2. How old is your baby?

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Please write numbers in both boxes

 Write in how many whole weeks plus any additional days
 and

 weeks
 days

Q3. Are you still breast feeding your baby at all?

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Yes	ð	Go to (a), (b) and (c)
No	ð	Go to Q4

(a). Do you breast feed your baby on demand or do you generally keep to set feeding times?

On demand	
Generally keep to set times	
It depends on the circumstances	

(b). How often do you breast feed your baby now?

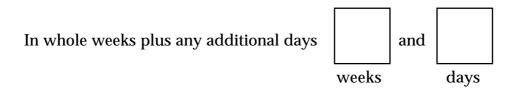
Once a day	
Twice a day	
3-4 times a day	
5-6 times a day	
7-8 times a day	
more than 8 times a day	
(Please cross and write in number	of times)
	·

(c). Do you give your baby milk from a bottle or cup at present (apart from expressed breast milk)?

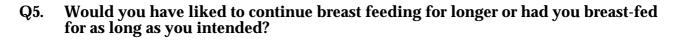
Yes	ð	Go to Q6
No	ð	Go to Q14

Q4. How old was your baby when you last breast fed him/her?

Please write numbers in both boxes



(a). What were your reasons for stopping breast feeding? *Please write in the reasons*



Would have liked to have breast fed longer	
I had breast fed for as long as intended	☐ → Go to Q7

Q6. Do you mainly breast feed your baby at the moment or do you mainly use formula or cow's milk?

		ase cross box only
Mainly breast fee	d	
Mainly use formula or cow's mil	k	
same amount of both types of mil	k	

5

Use about the same amount

^t **Q7**. Which kind of milk do you give your baby most of the time at the moment?

	Please cross one box only	
Cow and Gate Premium	Ň	
Cow and Gate Plus		
Cow and Gate Omneo Comfort 1		
Cow and Gate Step 1		
Cow and Gate Omneo Comfort 2		
Cow and Gate Next Steps		
SMA Gold		
SMA White		
SMA Progress		
Milupa Milumil		
Milupa Aptamil First		
Milupa Aptamil Extra		
Milupa Forward		
Farley's First		
Farley's Second	☐ ð Go to Q8	
Farley's Follow-on milk		
Boots Formula 1		
Boots Formula 2		
Boots Follow-on milk		
Boots Follow-on Banana Flavour		
Boots Follow-on Strawberry Flavour		
Sainsburys First Menu Stage 1 milk		
Sainsburys First Menu Stage 2 milk		
Sainsburys First Menu Follow-on milk		
Hipp Organic Infant Milk		
Hipp Organic Follow-on Milk Drink		
Soya-based Formula (Please cross and write in the name)		
Liquid cow's milk Another kind of milk (Please cross and write in the name)		

Q8 .	Thinking of the milk that you give your baby most of the time, do you normally use powdered milk, ready to feed milk or both?			
	Powdered			
	Ready to feed			
	Both			
Q 9.	How old was your baby when you started ;	giving this kind of milk?		

Q10. Do you ever give your baby liquid cow's milk at the moment?

Please write the age in the box to the nearest whole week

Yes	ð	Go to Q11
No	ð	Go to Q13

weeks old

Q11. Do you use whole, semi-skimmed or skimmed liquid cow's milk?

	Please cross one or more boxes		
Whole			
Semi-skimmed			
Skimmed			

Q12. How old was your baby when you started giving liquid cow's milk?

Please write the age in the box to the nearest whole week weeks old

7

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Q13. Do you ever add anything to the baby milk in the bottle?

	Yes	ð	Go to (a)
	No	ð	Go to Q14
	(a). What do you add to the milk?		
		ase cross more bo	
	Sugar		
	Honey		
	Tea		
	Something else (Please cross and write in)		
Q14.	Since the time you filled in the previous q free or reduced price milk for either yours		Ū Ū
		·- j ·	
		se cross more box	
	Yes, baby milk for baby		
	Yes, cows milk for myself		Go to (a)

No, neither

8

🗌 ð 🛛 Go to Q15

- (a). Where have you exchanged the tokens for milk?

		cross one re boxes
At the health clinic/hospi	tal	
With the milkm	an [
At a supermark	ket [
At another type of she	op	
Somewhere else (Please cross and write	in)	

Q15. Has your baby ever drunk from a cup or beaker with a spout?

	Yes		Go to	(a)
	No		Go to	Q16
(a). How old was your baby when	he/she ł	oegan te	o use tł	e cup or beaker?
Diana and a diana da india banda diana amatania.	1			weeks old
Please write the age in the box to the nearest who	ie week			weeks old

Q16. Does your baby use a dummy at present?

Yes	
No	

Section 2: About other drinks and food that you may give to your baby

Q17. Do you give your baby plain tap or mineral water to drink at the moment (including boiled tap water)?

Yes	ð	Go to (a)
No	ð	Go to Q18

(a). Do you add sugar or honey to the water that you give to your baby?

Sugar	
Honey	
Neither	

- Q18. Apart from tap or mineral water, are you giving your baby anything else to drink at the moment (such as fruit juice, squash or herbal drink)?
 - Yes
 ♂
 Go to (a)

 No
 ♂
 Go to Q19
 - (a). Please list the drinks giving the brand name (or say if homemade) and the flavour and say if it is a special baby drink or not.

Brand (or homemade)	Flavour	Please cross if it is a baby drink

- The following questions are about the food that you give to your baby.
 - Q19. Has your baby ever had any foods such as cereal, rusk or any other kind of solid food?

Yes	ð	Go to (a)
No	ð	Go to Q32

(a). How old was your baby when he/she first had any food apart from milk? *Please write a number in the box*

Please write in the age to the nearest whole week	
---	--

Q20. Can you list all the cereal, rusks or solid food that your baby ate yesterday. Please describe each fully, giving the brand name or saying if it is home made. For commercial baby food, please tick the column to show whether it was dried or tinned/jarred.

Didn't have solids yesterday

🗌 ð Go to Q21

		Please show v	tick to vhether
Type of food (and stage)	Brand (or homemade)	Dried	Tinned/ Jarred

11

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Q21. Do you ever use liquid cow's milk to mix up your baby's food?

Yes	ð	Go to (a)
No	ð	Go to Q22

(a). How old was your baby when you first used liquid cow's milk to mix up your baby's food?

Please write in the age to the nearest whole week	weeks old	

Q22. Do you use any other type of milk to mix up your baby's food?

Yes	ð	Go to (a)
No	Πð	Go to Q23

(a). What types of milk do you usually use?

	nse cross one more boxes
Infant formula milk	
Follow on formula milk	
Expressed breast milk	
Something else (Please cross and write in)	

Q23. When you give your baby solid food, do you give him/her fruit juice or other drinks containing vitamin C at the same time?

Yes, usually	
Yes, sometimes	
No	

Q24. How often do you usually give your baby the following types of foods nowadays?

Type of food	More than once a day	Once a day	3 or more times a week	Once or twice a week	Less than once a week	Never
Cereals or Rusks						
Rice or Pasta						
Bread						
Meat						
Fish (including tuna)						
Eggs						
Potatoes						
Peas, beans, lentils or chickpeas						
Raw vegetables						
Cooked vegetables						
Raw fruit						
Cooked fruit						
Cheese, yoghurt, fromage frais						
Puddings or desserts						
Sweets or chocolate						

Please cross one box in each row

Q25. Do you ever give your baby home made solid foods?

Yes	
No	

Q26. How would you describe the variety of foods that your baby generally eats? Does he/she... Please cross <u>one</u>

110	box only
eat most things	
eat a reasonable variety of things	
or is he/she a fussy or faddy eater	

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Yes	ð Go to (a)
No	ð Go to Q28

(a). Which ingredients do you avoid and why?

Ingredient	Reason for avoiding

Q28. Has your baby ever been given meat or food with meat in it?

Yes	ð	Go to (a)
No	٥	Go to Q29

(a). How often do you give your baby meat or food with meat in it at the moment?

	Please cross one box only	
Every day		
3 or 4 times a week		
1 or 2 times a week	\Box > Go to Q30	
About once every 2 weeks		
Less often than once every 2 weeks		
I never give meat at the moment	🗋 ð Go to Q29	

Q29. Why don't you give your baby meat or food with meat in it?

	Please cross one box only	
My baby doesn't like mea	t 🗌	
I don't think my baby is ready for meat ye	t 🗌	
I intend to give my baby a vegetarian die	t 🗌	
Some other reason (Please cross and write in		

Q30. Has it been difficult to wean your baby onto solid food?

	Yes No	∐ð ⊡ð	Go to (a) Go to Q31
(a). In what way has it been diffic	ult?		
		ease cro le or moi boxes	
Baby would not take	e solids		
Baby would only take certain	ı solids		
Baby was disinterested i	in food		
Baby prefers drinks t	to food		
Baby vo	miting		
Some other reason (Please cross and w	rite in)		

Q31. Has your baby ever fed him/herself using a spoon?

Yes	ð	Go to (a)
No	ð	Go to Q32

(a). How old was your baby when he/she began to use a spoon?

weeks old

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Section 3: About vitamins for your baby and yourself

Q32. Do you give your baby any extra vitamins (apart from fruit drinks mentioned at Q18)?

Yes	\Box ð Go to (a) and (b)
No	🔲 👌 Go to Q33

(a). Do you use Children's Vitamin Drops from your clinic or do you get another brand from a shop?

(Please cross box and write full name below)		
Other brand from a shop		
Children's Vitamin Drops		

(b). How do you usually get the vitamins?

	Please cross one box only	
Buy the vitamins myself at my clini	c 🗌	
Buy the vitamins from a sho	p 🗌	
Get the vitamins free at my clini	c 🗌	
Get vitamins on prescription	n 🗌	
Other (Please cross and describe)	

Q33. Are you taking any extra vitamin or iron supplements <u>yourself</u> either in tablet or powder form?

Yes	ð	Go to (a)
No	ð	Go to Q34

(a). What type of supplements are you taking?

Please cross one box only

Iron only	
Vitamins only	
Vitamins and iron combined	
Something else (Please cross and describe)	

Q34. Have you had any problems with feeding your baby since the time when you filled in the previous questionnaire?

Yes	ð	Go to (a)
No	ð	Go to Q36

(a). What problems have you had? (Please describe)

Q35. Did you get help or advice about these problems?

Yes	🔲 ð Go to (a)
No Did not ask for help or advice	□ □ □ □ - Go to Q36
	se cross one more boxes
Doctor/GP	
Health visitor	
Nurse	
Voluntary organisation (such as the National Childbirth Trust)	
Friend or Relative	
Books/leaflets/magazines	
TV or Radio	
Someone else (please cross and write in)	

18

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Q36. Thinking back since your baby was born, who or what has been the most helpful in giving you general advice on feeding your baby?

	Please cross one or more boxes	
Doctor/GP		
Health visitor		
Nurse		
Midwife		
Voluntary organisation (e.g. National Childbirth Trust)		
Friend or Relative		
Books/leaflets/magazines		
TV or Radio		
Someone else (please cross and write in)		

Section 6: About yourself
Q37. Do you smoke cigarettes at all nowadays?
Yes
No

The following question is about your use of contraception.

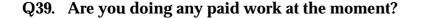
Q38. Since your baby was born have you used either the combined pill or mini-pill (progesterone only) to prevent pregnancy?

Yes - combined pill	ð	Go to (a)
Yes - mini-pill	ð	Go to (a)
No		Go to Q39

(a) How old was your baby when you began to take the pill?

Please write in how many weeks to the nearest whole week

Section 7: About your plans for work



Yes	
On paid maternity leave	Go to Q40
On unpaid maternity leave	
No	🗋 👌 Go to (a)
(a). Do you intend to return to work within	n the next year?
Yes No	 d Go to Q44 d Go to Q46

- Q40. What is the title of your job (including where you are on maternity leave)? (If you have more than one job please give details of your main job)
 - (a). What do you mainly do in your job? *Please write in*
 - (b). What does the firm or organisation you work for make or do at the site where you work?
 - (c). Are you . . .

an	employee	
----	----------	--

or self-employed?

(d). Do you have any managerial duties or do you supervise any other employees?

Yes,	manager	Γ
т с Б ,	manager	

Yes, supervisor

No, neither

20

(e). Do you work mainly at home or do you go out to work?

Mainly at home	ð	Go to Q42
Go out to work	ð	Go to Q41

Q41. How is your baby usually provided with milk while you are at work?

Please cross one or more boxes

Baby is given formula milk
Baby is given cow's milk
I take him/her to work so that I can breast feed/ I breast feed at work-place creche
I express breast milk for him/her to have while I am at work
Baby has other milk while I am at work
Baby does not have milk while I am at work Other arrangement (Please cross and describe)

t

If you are currently working, please answer Q42 If you are currently on paid or unpaid maternity leave, please go to Q43

42 .	How many hours a week do you work?	
	Less than 15	
	15 to 30 hours	
	31 or more hours	
	Varies	
	(a). How is your baby cared for while you	are at work?
	Plea or 1	se cross one more boxes
	Childminder/Nanny	
	Work-place creche or nursery	
	Other creche or nursery	
	Husband or partner	
	The child's grandparent(s)	
	Another relative	
	Friend	
	Other person/place (<i>Please describe</i>)	
	Do not use any childcare	
	(b). Has your return to work affected the w all?	ay in which you are feeding your baby at
	Yes	🗌 ð Go to (c)

(c). How has this affected the way in which you feed your baby? *Please write in*

No

🗌 ð Go to Q46

If you are currently on paid or unpaid maternity leave, please answer Q43 If you are currently working, please go to Q46

Q43. Do you intend to return to work when your maternity leave has come to an end?

	Yes	🗋 ð Go to Q44
	No	
	Undecided	☐ } ð Go to Q46
Q44. W	What age will your baby be when you retu	urn to work?
	6 months, less than 9 months	
	9 months, less than 1 year	
	1 year or older	
	Undecided	
(a)). How many hours do you intend to wo	ork?
	Less than 15	
	15 to 30 hours	\square
	31 or more hours	\square
	Will vary	
	Undecided	
(b). What type of childcare do you intend	to use?
		ase cross one
	or Childminder/Nanny	more boxes
	Work-place creche or nursery	\square
	Other creche or nursery	\square
	Husband or partner	\square
	The child's grandparent(s)	\square
	Another relative	
	Friend	
	Other person/place (<i>Please describe</i>)	
	Not yet decided	
	Do not intend to use any childcare	

 Yes
 ∂
 Go to (a)

 No
 ∂
 Go to Q46

(a). How do you think that this will affect the way in which you feed your baby? *(Please write in)*

Q46. When you look back on how you have fed your baby since birth are you happy with everything you decided to do or do you wish that you had made other decisions about feeding your baby?

Happy with my decisions	ð	Go to Q47
Wish that I had made other decisions	ð	Go to (a)

(a). What other decisions would you have made?

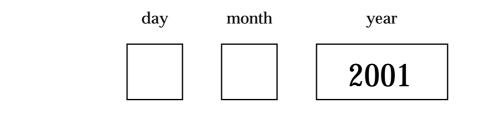
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Q47. Is there anything else you would like to say about feeding your baby?

Yes	\square ð Please write in below	,
No		

Please give the date when you filled in this questionnaire



Was there anything you intended to go back and complete? *Please check.*

Thank you very much for your help.