Sources of weaning advice, comparisons between formal and informal advice, and associations with weaning timing in a survey of UK first-time mothers

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Abstract

Objective: The aim of the present study was to explore knowledge of the UK weaning guidelines and the sources of weaning advice used by UK first-time mothers.

Design: An online survey of UK parents; analysed using mixed methods.

Setting: Participants were recruited from a selection of parenting websites that hosted a link to the survey.

Subjects: In total, 1348 UK first-time mothers were included in the analysis.

Results: Knowledge of the guidelines was high (86%) and associated with later weaning (P<0.001), although 43% of this sample weaned before 24 weeks. The majority of parents used multiple sources of information, the most influential being the health visitor (26%), the Internet (25%) and books (18%). Fifty-six per cent said they received conflicting advice. Younger mothers and those of lower educational attainment were more likely to be influenced by advice from family, which was likely to be to wean earlier. Furthermore, those most influenced by their mother/grandmother were less likely to have accurate knowledge of the guidelines. In this population the Internet was used for weaning advice across all sociodemographic groups and was associated with a later weaning age, independently of sociodemographic factors (P<0.001). Data from responses to a free-text question are used in illustration.

Conclusions: The study suggests that first-time mothers have a good understanding of the weaning guidelines but seek weaning information from multiple sources, much of which is conflicting. Informal sources of weaning advice appear most influential in younger mothers and those of lower educational attainment, and result in earlier weaning.

The timing of the introduction of solid food to an infant’s diet is important for nutritional and developmental reasons (1). In 2003 the UK Department of Health (DH) adopted the WHO guidelines to introduce complementary foods at 6 months (2,3), however, there has been considerable debate among health professionals about the appropriateness of these guidelines (4–6) and the Scientific Advisory Committee on Nutrition is currently reviewing complementary and infant feeding recommendations for the UK (7).

Evidence suggests that compliance with the UK weaning guidelines is low; the latest nationwide study (2005) concluded that 98% of parents introduced solids before 26 weeks (8). Previous studies have indicated that the parental decision to begin weaning earlier than recommended is associated with a range of signals, such as the infant waking at night, seeming hungry or unsatisfied by milk, or reaching for food (9–11). However, despite clarification from the DH (12), there is little consensus among mothers about the cues they deem significant (10). Given that readiness for solids is a developmental process, there has been the suggestion that health visitors may also find it difficult to remain consistent with published guidelines while offering advice tailored to signals from the infant (9,10) and as a result commonly suggest weaning earlier than the guidelines (13).

There has been little UK research into sources of weaning advice. A small Irish survey (n 215) concluded that advice from health visitors was the most important source of feeding advice; however, it highlighted that grandparents and the Internet were also influential (14). Reliance on informal advice, from family in particular,
has been associated with earlier weaning\textsuperscript{(8,15,16)}, while receiving advice from health professionals is associated with later weaning\textsuperscript{100}. Qualitative research suggests that mothers in the UK can be confused by conflicting advice and that first-time mothers may find this creates anxiety around weaning\textsuperscript{100}.

The present study explored which sources of information first-time parents used and found most influential when making the decision of when to wean and associations between sources of advice, knowledge of the guidelines and weaning timing. Our results may help health professionals understand how well weaning messages are being communicated among first-time mothers in the UK and how the influence of sources of weaning advice may shape weaning behaviour in the context of other influential factors.

\section*{Methods}

An online survey of UK parents was performed (using the SurveyMonkey\textsuperscript{\textregistered} online survey software and questionnaire tool) in accordance with the ethical standards of King’s College London Research Ethics Committee (BDM09/10-61). Parents were recruited via a link on a selection of online parenting websites, over a 3-week period (June 2010). The questionnaire was completed anonymously.

\section*{Participants}

Eligible participants were first-time parents who had weaned a child since the 2003 guidelines and were UK residents. Data were excluded from the analysis if the infant was weaned early or late for medical reasons. A series of explicit questions was used to assess all inclusion criteria.

\section*{Survey}

The questionnaire consisted of twenty-one questions in themed sections: weaning timing; understanding of the guidelines; factors influencing weaning timing; sources of information; antenatal care and feeding choices during the first 6 months; and feelings about the weaning process. The questionnaire was piloted to verify understanding and resulted in minor changes to the wording of two questions.

\section*{Analysis}

\subsection*{Quantitative analysis}

Quantitative data were analysed using the SPSS statistical software package version 19-0. Non-parametric tests were used to assess the relationship between categorical variables. One-way ANOVA modelling was performed using the ranked weaning data due to the categorical and ordinal nature of the data. Partially completed questionnaires were included in selected analyses, as appropriate, therefore responses are reported as valid percentages. Analysis was carried out to confirm the effects of missing data on key findings. In all instances $P > 0.05$ (data not shown), leading us to conclude that our conclusions are robust, despite missing data. Logistic regression analysis was used to investigate whether the most influential source of advice was a predictor of accurate knowledge of the weaning guidelines (knowledge of the current weaning guidelines was deemed as accurate if stated as at 6 months (26 weeks) or around 6 months, reflecting the definitions given in DH guidelines\textsuperscript{21} and the DH consumer leaflet\textsuperscript{12}, respectively). The terms used in the model were ‘most influential source of advice’ as a block of categorical indicator variables (as listed in Table 2). Educational attainment, receipt of benefits, ethnicity and maternal age were entered into the model as confounding variables. The indicator variables were entered into the model as a block and the odds ratio statistics are reported in relation to the reference category (friends). The reference category was selected based the number of participants and the median weaning age being closest to the median weaning age of the sample as a whole. The Wald test provides a statistic for the overall significance of how reliable the indicator variables are in predicting the outcome. The odds ratios and confidence intervals indicate how each alternative within the indicator variables contributes towards the overall influence and how each may influence the likelihood.

\subsection*{Qualitative analysis}

Free-text responses regarding weaning advice were analysed using the corpus analysis tool WMatrix\textsuperscript{(17)} to identify significant keywords, phrases and semantic groupings. Keyword analysis is recommended for use with large volumes of qualitative data\textsuperscript{(18)}. This approach identifies words that occur more frequently in the text of interest than they do in the reference text as ‘keywords’. Compared with other qualitative methodologies, keyword analysis is a more inductive approach as meaning is inferred only after identification of the keywords\textsuperscript{(18)}. The log-likelihood (LL) statistic from the keyword analysis is quoted as an indication of significant themes ($P \leq 0.05$, $LL > 3.84$) for further investigation in subsequent thematic content analysis. For this we used NVivo 9-0 software for data management and followed Muller’s five-step approach\textsuperscript{(19)}. One person led on the analysis, with thematic codes verified by the other authors. Given that the data were often one-sentence answers to an open question, there were no major issues from potential biases or from ambiguity in coding, and a code book was not necessary. As the data were written responses, affect was often signified by punctuation, further informing interpretation.

\section*{Results}

A total of 1348 first-time parents were included in the study (Table 1), of whom 99.7\% were the baby’s mother,
70% were educated to degree level and 68% exclusively breast-fed for the first 8 weeks. Thirty-four per cent of participants had a child below the age of 1 year and 60% had a child aged 1–3 years.

**Knowledge of the guidelines**

Knowledge of the current guidelines was high (86%), although they were less well understood among mothers under 25 years old ($P<0.001$), in receipt of benefits ($P=0.001$) and educated until 16 years old ($P=0.001$). Knowledge of the guidelines had a positive association with weaning age ($\chi^2(3, n=1348)=105.8, P<0.001$; Fig. 1), which remained significant in ANOVA after adjustment for demographic factors ($F(1,1199)=60.0, P<0.001$). However, knowledge of the guidelines did not necessarily result in compliance, as 43% still weaned before 24 weeks. The most influential source of advice was an independent predictor of having accurate knowledge of the weaning guidelines ($Wald=42.3, P<0.001$), with books and the Internet increasing the likelihood to a significant degree and being influenced by the mother/grandmother decreasing it (Table 2).

**Sources of weaning information**

First-time mothers relied on multiple sources of feeding advice, 74% using more than three sources. Fifty-six per cent reported receiving conflicting advice, most apparent in younger mothers ($\chi^2(8, n=1302)=43.1, P<0.001$).

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**Table 1** Characteristics of respondents and comparative weaning ages: sample of 1348 first-time mothers recruited via online parenting websites, UK, June 2010

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>$n$</th>
<th>%</th>
<th>Mean</th>
<th>SD</th>
<th>Median</th>
<th>$P$ (Kruskal–Wallis)</th>
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<td>$\leq25$</td>
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<td>20</td>
<td>4.5</td>
<td>20*</td>
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<td>23</td>
<td>3.4</td>
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<tr>
<td>$\leq34$</td>
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<td>36</td>
<td>23</td>
<td>3.4</td>
<td>24*</td>
<td></td>
</tr>
<tr>
<td>In receipt of benefits</td>
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<td></td>
<td></td>
<td></td>
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<td>91</td>
<td>23</td>
<td>3.5</td>
<td>24</td>
<td>$&lt;0.001$</td>
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<td>9</td>
<td>21</td>
<td>4.4</td>
<td>22</td>
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<tr>
<td>To 16 years</td>
<td>229</td>
<td>18</td>
<td>21</td>
<td>4.3</td>
<td>22*</td>
<td>$&lt;0.001$</td>
</tr>
<tr>
<td>To 18 years (HND/HNC or equivalent)</td>
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<td>12</td>
<td>22</td>
<td>3.5</td>
<td>23*</td>
<td></td>
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<tr>
<td>Degree or equivalent</td>
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<td>70</td>
<td>23</td>
<td>3.2</td>
<td>24*</td>
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<td>95</td>
<td>23</td>
<td>3.6</td>
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<td>23</td>
<td>3.2</td>
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<td></td>
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<td>68</td>
<td>23</td>
<td>3.2</td>
<td>24*</td>
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<td>15</td>
<td>23</td>
<td>4.2</td>
<td>20*</td>
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<tr>
<td>Mixed feeding (breast/formula)</td>
<td>229</td>
<td>17</td>
<td>22</td>
<td>3.6</td>
<td>23*</td>
<td></td>
</tr>
</tbody>
</table>

HND, Higher National Diploma; HNC, Higher National Certificate.
*Valid percentages.
+Significant differences between $\leq25$ years and 26–33 years ($P<0.001$) and $\leq25$ years and $\leq34$ years ($P<0.001$).
$\dagger$Significant differences between single and co-habiting ($P=0.010$), single and married ($P<0.001$) and cohabiting and married ($P=0.034$).
*Significant differences between educated to degree and to 16 years ($P<0.001$) and to 18 years ($P<0.001$).
$\ddagger$Significant differences between all groups ($P<0.001$).

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**Fig. 1** Understanding (■, accurate; □, inaccurate) of the UK weaning guidelines and weaning timing ($\chi^2(3, n=1348)=105.8, P<0.001$) in a sample of 1348 first-time mothers recruited via online parenting websites, UK, June 2010

**Formal advice**

Seventy-seven per cent of respondents received weaning advice from a health visitor but only 26% deemed this the most influential source of advice (Table 3). Other sources of formal advice included leaflets (56%), the general practitioner (17%) and other health professionals (dietitians, pharmacists or other medical professionals; 14%). Mothers were equally likely to receive advice from a health visitor regardless of their age ($\chi^2(3, n=1348)=4.56, P=0.207$), being in receipt of benefits ($\chi^2(1, n=1348)=0.54, P=0.570$) or ethnicity ($\chi^2(2, n=1348)=0.56, P=0.760$). The mean age...
of the child when mothers received feeding advice from a health visitor was 16 (so 4.75) weeks. Forty-two per cent of respondents indicated that their health visitors recommended they wean at around 6 months, 34% at 6 months and 24% advised to wean earlier or to be governed by signs from the baby (Fig. 2).

Thematic content analysis of the free-text responses (n 162) about weaning advice from health visitors revealed a number of key themes (Table 4); most dominant was that the health visitor advised beginning weaning based on an observed need or sign from the infant or a practical need of the mother (returning to work). The keyword analysis (Table 5) supports this tailoring of advice, with the words ‘due to’ having a higher relative frequency when compared with advice given from friends and family (LL = 7.9, P < 0.001) and normal speech (LL = 80.4, P < 0.0001). The most common reasons cited by the health visitor as a need to begin weaning were to improve weight gain or to help reflux, followed by helping the baby to sleep.

I was told generally about waiting until 6 months but that they do advise on a case-by-case basis and as my baby was not gaining weight I was advised to start. (18)

Generally this was interpreted positively and semantic groupings for supportive words such as ‘guidance’, ‘said it was OK’ and ‘supportive’ were significant in evaluation by WMatrix compared with normal speech (LL = 24.6, P < 0.0001) and advice from friends and family (LL = 7.9, P < 0.001):

She gave me advice and recipes ... which was invaluable. (6)

Advised to wean slightly early on medical grounds, but I was given full info and the choice was very much my own. (40)

However, being given conflicting advice from health visitors was also common:

My health visitor told me to start weaning as my baby wasn’t gaining enough weight ... the next health visitor told me off for starting way too early. (60)

One said [I] should wait until 6 months, one said I was unlikely to make it anywhere near that point with such a big baby so I should start from 17 weeks. (18)

Groups of words suggesting conflict, such as ‘different’, ‘confused’, ‘mixed’ and ‘conflicting’, were common in the
health visitor data compared with normal speech (LL = 28.8, \( P < 0.001 \)) although these words were also common in advice given by friends and family.

A feeling that the health visitor gave poor advice, was not well informed, or was less able than the mother to interpret the infant’s needs, was apparent for some mothers when the health visitor was suggesting weaning before 6 months; but also conversely when waiting until 6 months was suggested rather than responding to the needs of the infant:

She wanted me to start at 4 months and kept telling me I was missing ‘the window of opportunity’. I eventually lied and told her we’d started when we hadn’t. (64)

I was told I HAVE to start weaning at 18 weeks. I refused as there is a natural plateau in weight gain around 16–18 weeks. (90)

Around 4 months … I ignored it since I was much better educated about breast feeding than the health visitor. (677)

Commonly used words such as ‘ignored’ and [I] ‘refused’ (LL = 13.9, \( P < 0.0001 \) and LL = 12.9, \( P < 0.001 \), checked in context) suggest that some mothers felt they knew better.

There appeared to be variability in the health visitor interpretation of the guidelines from rigidity to an idea that they were not attainable for most parents, and in some cases no reference to the guidelines was made:

I was told I MUST NOT wean before 6 months, which I found very unhelpful. (579)

I was advised that 6 months was the gold standard but that not many mothers get that far. (776)

I was advised 4 months was when to start weaning. (595)

**Informal advice**

A variety of informal sources of weaning advice were used, such as the Internet (used by 88%), books (81%),

![Fig. 2 Proportions receiving advice on weaning timing from formal (●, health visitor, n 812) and informal sources (●, friends and family, n 1007) in a sample of 1348 first-time mothers recruited via online parenting websites, UK, June 2010](https://www.cambridge.org/core/terms).
friends (78%) and the baby’s grandmother (68%). The Internet and books were most influential for 25% and 18% of respondents, respectively (Table 3). The most common advice from family and friends was to wean between 4 and 6 months (40%) or when the infant showed signs of being ready (30%), while 15% advised weaning at or around 6 months and 15% waiting until after 17 weeks (Fig. 2).

Thematic content analysis of the free-text responses (n 268) about weaning advice from friends and family revealed a number of dominant themes (Table 4). The family commonly suggested weaning early (before 17 weeks and usually at 8 or 12 weeks), often based upon experience of the previous generation being weaned much earlier without negative consequences:

...his father was weaned at 8 weeks it didn’t do him any harm!!! (600)

The numbers 3 (months)/12 (weeks) and 8 weeks were more likely to be cited by informal sources than when health visitor advice was described (LL = 31.3, 20.0 and 11.6, respectively, P<0.001), in which case 6 (months) and 17 (weeks) were more commonly observed. Beginning weaning was suggested when the baby seemed unsatisfied by milk or to help night-time waking, and putting solids into a bottle as early as a week after birth was often suggested. The range of conflicting advice given was apparent in the responses and much of the advice was considered unsolicited or irrelevant:

Friends, family and passing strangers gave all sorts of nonsensical conflicting advice. (665)

Mum and mum-in-law started the weaning nag at 12 weeks! (803)

Everyone had an opinion although none was asked for. (679)

I had every advice going. (777)

The word ‘conflicting’ appeared frequently (LL = 121.4, P<0.001).

Compared with health visitor advice, advice from friends and family was described using fewer obligation words such as ‘told’ (LL = 17.1, P<0.0001), ‘must’, ‘had to’ and ‘should’. On the other hand, informal words such as ‘nag(ged)’ or ‘pressurised’ still suggested an obligation was imposed on the mothers to follow advice; however, mothers were prepared to confidently reject advice they didn’t agree with. As with the advice from health visitors, ‘ignore(d)’ occurred frequently in the discussion of advice from friends and family (LL = 63.5, P<0.0001):

I decided to listen to the people who’s parenting I thought was closest to mine. (641)

I was given conflicting advice but the advice I most trusted was to wean at 6 months. (759)

My mum said she had me on baby rice at 3 weeks!! Which I chose to ignore. (812)

...advised weaning at 3 months, which I ignored. (618)

**Associations between the most influential sources of advice and weaning timing**

The most influential source of advice varied according to maternal age (χ²(12, n 1160)=42.2, P<0.001) and maternal education (χ²(12, n 1160)=58.7, P<0.001). Relying on advice from a mother or grandmother was more likely in mothers under 25 years and those educated to 16 or 18 years, while formal advice from health professionals was...
more influenced in mothers over 34 years. Those with tertiary education were more likely to be influenced by books. The Internet was used as an information source equally across all age and educational groups, although it was less often cited as the most influential source in those who finished formal education at 16 years.

There was an association between the type of advice that was most influential and weaning age ($\chi^2(6, n = 1185) = 121.8, P < 0.001$; independent of demographic factors ($F(6, 1089) = 22.8, P < 0.001$), with 55% of those weaning before 17 weeks being most influenced by friends and family and 59% of those weaning at 6 months being most influenced by books and the Internet. Reliance on a grandparent for weaning advice was associated with the earliest weaning age (Table 3).

**Other influences on weaning timing**

The triggers to wean before 6 months were more likely to be in response to a signal from the infant (64% cited developmental signs as having a lot of influence) than to prompts from external advice (26%). Forty-one per cent said they began weaning when their baby was ‘the right age’. Ten per cent said the baby waking at night had a lot of influence and this was associated with weaning before 20 weeks ($\chi^2(9, n = 1250) = 170.2, P < 0.001$), while those weaning after 24 weeks were more influenced by the baby’s age ($\chi^2(9, n = 1297) = 202.8, P < 0.001$). Seventy-one per cent were confident about when to wean, 36% reported anxiety and 25% were confused. Confusion was higher among younger mothers ($\chi^2(4, n = 1296) = 11.2, P = 0.025$).

**Discussion**

Using quantitative and qualitative methodology, the present study explores the primary sources of weaning advice for first-time mothers and compares the advice given informally with that reported to have been given by health visitors. Associations with weaning knowledge and weaning timing are investigated. Previously, sources of weaning advice have primarily been reported in smaller studies (11, 14).

First-time motherhood can be an unsettlng period when lack of knowledge can lead mothers into information-seeking behaviour (20). The search for weaning information appears to be no exception, with the majority in the current study seeking information from multiple sources. While information from health visitors was often cited as the most influential source of weaning information, the fact that only a quarter of these mothers were most influenced by this advice and that the importance of the Internet and books was highlighted suggest, certainly in this educated population, that self-driven research was also important. While information from books was more influential for those with tertiary education, the study shows that the Internet was used by a broad social cross-section of mothers as has previously been acknowledged by the founder of Netmums (23). As the present study used an Internet-sourced sample, recruitment bias should be considered. However, in their telephone-based study, Gildea et al. (2009) also reported the usefulness of the Internet for weaning information across 75% of respondents (14). Moreover, the fact that the Internet, while used by 88%, was the primary influence in only 25% of cases also indicates the general validity of our findings. Clearly, the increasing importance of the Internet and Internet forums should be recognised in devising weaning communication strategies. Over half of this population used printed leaflets; they were rarely cited as a key influence but appeared commonly in free-text descriptions of health visitor advice. There have been few evidence-based studies reviewing weaning interventions; however none using printed information alone were effective and evidence suggests that printed advice should be accompanied by regular support from a health professional (22). Advice from friends and family was commonly given, although was mainly influential for younger mothers and those of lower educational attainment, as also found in the study by Gildea et al. (14). The need for increased family support is understandable given the social pressures associated with motherhood at a young age (25, 24). However, as reliance on advice from family, particularly the previous generation, has generally been shown to perpetuate inappropriate early weaning (8, 15, 16), the need for weaning support in this vulnerable group is highlighted. For the younger, less well-educated mothers it remains a concern that health professionals may not be saliently communicating the negative health consequences of weaning before 17 weeks, as well as information about the weaning guidelines. It is also necessary for professional communication to reach the influential previous generation; this is a challenging proposition, especially since they have weaned earlier in the past with no apparent negative consequences. Weaning advice also needs to be timely; for mothers most influenced by the previous generation, receiving advice at 16 weeks may be too late.

The present study indicates a degree of variability in how health visitors interpret the guidelines. Health visitors are the most likely health professionals to give infant feeding advice to postnatal mothers in the UK, although dietitians and physicians may advise in particular situations if there is medical need. Women in the study indicated they saw multiple health visitors who often advised differently, leading to conflict and a lack of confidence in the advice they received. Most health visitors were reported to suggest weaning in response to the needs of the infant, indicating a primary focus to tailor advice to the individual. This is not surprising and is the way the guidelines were intended to be interpreted (25). However, there was evidence from the present data that
for some mothers focused on achieving the 6 months guidelines, advice to wean earlier, according to the health visitor’s perception of the infants’ needs, was frustrating or a sign that they were not knowledgeable. This was particularly the case when the signs they suggested, such as failure to maintain weight gain or waking at night, were not consistent with those promoted by the DH\(^\text{(12)}\). The current study confirms findings from a recent qualitative study\(^\text{(10)}\), that those waiting until 6 months to wean are generally focused on the baby’s age and achieving the guidelines and less so on putative signs of readiness in the infant. This highlights the difficult situation faced by health visitors; with some mothers they risk their credibility if they don’t acknowledge the guidelines, while for others focusing on the guidelines can create stress if mothers don’t feel they can wait until 6 months. With the online resources available today’s mothers can be well informed, as was evident in this well-educated group. Evaluation of successful health visitor–client interactions, particularly with well-informed parents, indicates that an approach that ‘facilitates individuals to make choices which are right for them, providing information about health, which will help them in their decision making’, rather than an authoritative approach in which health visitors position themselves as the expert, is more likely to be successful\(^\text{(20)}\). Both examples of interaction were found in the current study and it is likely that weaning information will be best received when the mother’s position on the guidelines and existing weaning knowledge are acknowledged when discussing weaning. The recent British Dietetic Association position statement suggests that ‘each infant should be managed individually and developmental signs of readiness … and parental opinions should be taken into consideration’ when advising on weaning and that weaning should begin between 17 weeks and 6 months\(^\text{(1)}\). The present study supports the British Dietetic Association’s recommendations in that if health visitors promoted weaning around 6 months (rather than not before 6 months) it would lead to a greater consistency of advice within the framework of the existing guidelines, while allowing the health visitor to acknowledge the instinct of the mother in determining weaning timing and recognising that some infants need solids before 6 months\(^\text{(6)}\). This may be preferable to returning to the previous guidelines in which recommendations to wean between 4 and 6 months were often interpreted as to begin weaning at 16 weeks\(^\text{(8)}\) and is consistent with the current evidence base as indicated in the most recent European Commission review\(^\text{(27)}\).

There has been little formal evaluation of interventions to promote optimal weaning behaviours. Of those that have been reviewed, the most successful involved regular, long-term support and ‘how to’ advice\(^\text{(22)}\). A recent investigation of the psychosocial factors important in the decision to delay weaning until 6 months reinforces the importance of social norms in determining this behaviour. Mothers who perceived peer pressure (‘the other mothers I know are doing this’) or that it is a social norm to delay weaning were more likely to have the intention to do so. This was more important than perceiving a benefit in delaying weaning and highlights the importance of the maternal support network in establishing later weaning as a normal behaviour\(^\text{(28)}\).

**Limitations of the study**

The major strengths of the current study are its size, diversity and that it has captured ‘the mother’s voice’. However, the sample is primarily Caucasian, well-educated and the exclusive breast-feeding rate is high compared with the national average, so extrapolations to the general population are therefore difficult. It should also be recognised that this is a self-selected sample, reporting weaning behaviour retrospectively, and as such results are subject to associated biases. In addition, as responses were collected online, the multiple-choice answers may be open to misinterpretation that we are not aware of. Care should be taken when drawing conclusions about Internet usage due to recruiting bias. Advice given by the health visitor is as reported by parents. To evaluate health visitors’ views about the guidelines, it is suggested that further analysis be carried out among a cross-section of health visitors.

**Conclusions**

The present study suggests that first-time mothers seek weaning information from multiple sources, much of which is conflicting. The younger, less well-educated mothers are highlighted as a group in particular need of support, because inappropriate early weaning is currently being perpetuated among them as their strongest influence is from the previous generation, who generally is not aware or supportive of weaning around 6 months. The Internet is likely to become an increasingly important communication vehicle for weaning information and health professionals should be able to direct mothers to reliable weaning information online.

It is recommended that further work be focused towards more vulnerable groups and with health visitors to investigate the difficulties they face in communicating weaning recommendations and to determine an interpretation of the guidelines that can be consistently delivered. Further evaluation of weaning interventions is necessary and those which involve education of significant others, such as the baby’s grandmother, should be considered.

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