# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE Guideline Maternal and child nutrition: nutrition and weight management in pregnancy, and nutrition in children up to 5 years Draft for consultation, July 2024

This guideline covers nutrition and weight management in pregnancy for anyone who is planning to become pregnant or is already pregnant, and nutrition in children up to 5 years. Care of babies and children born preterm or with low birth weight are not covered. The guideline does not give detailed advice on what constitutes a healthy diet.

NICE has also produced a <u>guideline on antenatal care</u>, and a <u>guideline on</u> postnatal care that covers babies' feeding in the first 8 weeks after the birth.

This guideline will update and replace the following NICE guidelines:

- The NICE guideline on maternal and child nutrition (PH11, published March 2008 and updated in 2011), except the recommendations on weighing babies (these recommendations have been retained from PH11).
- The recommendations on weight management during pregnancy from the NICE guideline on weight management before, during and after pregnancy (PH27, published July 2010).

This updated guideline amalgamates the following new and existing recommendations:

- New recommendations on maternal and child nutrition. These are marked as
   [2024] because we have reviewed the evidence, and new recommendation have been added. You are invited to comment on these recommendations.
- Existing recommendations on weighing healthy babies that we are retaining from the original maternal and child nutrition guideline (PH11, published March 2008 and updated in 2011). These recommendations are shaded in grey and marked as [2008] or [2011]. We have not reviewed the evidence or updated these recommendations so cannot accept changes on them. We have made some minor editorial wording changes for clarification.
- New recommendations on weight management during pregnancy. These are marked as [2024] because the evidence has been reviewed and the recommendations have been added. You are invited to comment on these recommendations.
- New recommendations on gestational diabetes. These are marked as [2024]
   because the evidence has been reviewed and the recommendations have been added. You are invited to comment on these recommendations.

#### Who is it for?

- Healthcare professionals working in the NHS who are responsible for maternal
  and child nutrition (for children from birth to 5 years), including midwives,
  obstetricians, health visitors, dietitians, public health nutritionists, primary
  healthcare professionals, general practitioners, community paediatricians,
  school and community nurses, dentists and dental professionals, and
  pharmacists
- Commissioners and providers of community and secondary antenatal and postnatal care services, weight management and activity or exercise services, and primary care services
- Providers of preschool education and care services and early years settings
- Employers, human resource teams, senior leadership staff and managers, and staff in education settings
- Anyone who is planning a pregnancy or who is pregnant, and their families

Families, carers, partners, people who look after babies and children up to
 5 years, and the public

#### What does it include?

- the recommendations
- recommendations for research
- rationale and impact sections that explain why the committee made the 2024 recommendations and how they might affect practice
- the guideline context.

Full details of the evidence and the committee's discussion on the 2024 recommendations are in the evidence reviews.

See <u>update information</u> for a full explanation of what is being updated.

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#### 1 Recommendations

People have the right to be involved in discussions and make informed decisions about their care, as described in <a href="NICE's information on making decisions about your care">NICE's information on making decisions about your care</a>.

Making decisions using NICE guidelines explains how we use words to show the strength (or certainty) of our recommendations, and has information about prescribing medicines (including off-label use), professional guidelines, standards and laws (including on consent and mental capacity), and safeguarding.

# 2 1.1 Vitamin supplementation

- 3 Unless otherwise stated, these recommendations are for all healthcare professionals
- 4 who discuss maternal nutrition before, during and after pregnancy, and child nutrition
- 5 (from birth to 5 years).
- 6 The recommendations in this section should be read in conjunction with:
- NICE's guideline on antenatal care
- 8 NICE's guideline on postnatal care
- 9 NICE's quideline on vitamin D
- NHS advice on vitamins, supplements and nutrition in pregnancy
- NHS advice on vitamin D
- the recommendations in the Scientific Advisory Committee on Nutrition (SACN)
- 13 <u>update on folic acid</u>
- the recommendations in the SACN report on vitamin D and health.

#### 15 Folic acid before and during pregnancy

- 16 1.1.1 Commissioners, service providers and healthcare professionals should
- 17 ensure that information about the importance of folic acid supplementation
- 18 before and during pregnancy is readily available in healthcare settings
- 19 such as:
- community pharmacies
- GP surgeries

1		sexual health clinics
2		contraception clinics
3		fertility clinics
4		clinics in community centres and local hubs
5		antenatal and postnatal care clinics
6		• young people's services. [2024]
7	1.1.2	Discuss the importance of folic acid with anyone who may become
8		pregnant, is planning a pregnancy or is already pregnant (whether it be
9		their first or a subsequent pregnancy), during face-to-face, telephone or
10		virtual appointments or group sessions about:
11		• contraception
12		sexual health
13		<ul> <li>pregnancy planning and preconception health</li> </ul>
14		• fertility
15		antenatal health and wellbeing
16		• future pregnancies, postnatal health and wellbeing, and child health.
17		[2024]
18	1.1.3	Advise anyone who may become, or is planning to become, pregnant or is
19		in the first 12 weeks of pregnancy, to take 400 micrograms of folic acid a
20		day, in line with UK government advice. Discuss the following and provide
21		information that is in the person's preferred format and relevant to their
22		individual circumstances and level of understanding:
23		What folic acid is and how it helps prevent neural tube defects and
24		other congenital malformations.
25		• The need to take folic acid before trying for a baby (ideally for 3 months
26		before) or as early as possible after a first positive pregnancy test, and
27		for at least the first 12 weeks of pregnancy.
28		The importance of taking folic acid supplements even if food (including)
29		flour) is fortified with folic acid.
30		That folic acid supplements are easy to take and are well tolerated.

ı		How to remember to take the folic acid supplements each day (for
2		example, setting up reminders or pairing with routine activity such as
3		brushing teeth).
4		<ul> <li>Free <u>Healthy Start vitamins</u>, who is eligible, and how to apply.</li> </ul>
5		That free Healthy Start vitamins contain a daily 400 microgram dose of
6		folic acid, and vitamins C and D.
7		Where to obtain free or low-cost folic acid supplements.
8		For more guidance on communication (including different formats and
9		languages), providing information and shared decision making, see the
10		NICE guidelines on patient experience in adult NHS services and shared
11		decision making. [2024]
12	1.1.4	Offer a high-dose folic acid supplement (5 mg a day) to anyone who is
13		planning to become pregnant or is in the first 12 weeks of pregnancy, if
14		they have an increased risk of having a baby with a neural tube defect or
15		other congenital malformation, for example, if they:
16		• (or their partner) have, or if there is a family history of, a neural tube
17		defect or other congenital malformation
18		<ul> <li>have had a previous pregnancy affected by a neural tube defect or</li> </ul>
19		other congenital malformation
20		<ul> <li>have type 1 or type 2 diabetes</li> </ul>
21		<ul> <li>have a haematological condition that requires folic acid</li> </ul>
22		supplementation, such as sickle cell anaemia or thalassaemia
23		<ul> <li>are taking medicines that can affect how folic acid is absorbed or</li> </ul>
24		metabolised (for example, people taking anti-epileptic medicines or
25		medicines for HIV). [2024]
26	1.1.5	Reassure anyone with a body mass index (BMI) of 25 kg/m <sup>2</sup> or more who
27		is planning to become pregnant or is in the first 12 weeks of pregnancy,
28		that they do not need to take more than 400 micrograms of folic acid a
29		day, unless they have any of the factors listed in recommendation 1.1.4.
30		[2024]

1	1.1.6	Reassure anyone with an increased risk of pre-eclampsia who is planning
2		to become pregnant or is in the first 12 weeks of pregnancy, that they do
3		not need to take more than 400 micrograms of folic acid a day, unless
4		they have any of the factors listed in recommendation 1.1.4. [2024]
5	1.1.7	If a person has had bariatric surgery and is planning a pregnancy or is
6		pregnant, advise them to contact their bariatric surgery unit for
7		individualised, specialist advice about folic acid and other micronutrients.
8		[2024]
9	1.1.8	Provide encouragement for anyone who is not taking the recommended
10		folic acid supplement, by giving targeted information, support and
11		follow-up reminders (including digital health technologies such as apps or
12		digital support groups, if available). Also see the NICE guideline on
13		medicines adherence. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on folic acid</u> <u>before and during pregnancy</u>.

Full details of the evidence and the committee's discussion are in the evidence reviews:

- evidence review A: high-dose folic acid supplementation before and during the first 12 weeks of pregnancy
- evidence review B: optimum folic acid supplementation dose before and during the first 12 weeks of pregnancy for those with a BMI ≥ 25 kg/m² or more
- evidence review C: interventions to increase uptake of folic acid
   supplementation before and during the first 12 weeks of pregnancy
- evidence review P: facilitators and barriers to increase the uptake of government advice on folic acid and vitamin supplements.

1	Vitamin	D and other vitamin supplements during and after pregnancy
2	and for	babies and children under 5
3	1.1.9	Discuss the importance of vitamin supplements during and after
4		pregnancy, and for children under 5 years, with people at opportunities
5		such as:
6		antenatal health and wellbeing appointments
7		health visitor appointments
8		baby development checks
9 10		<ul> <li>postnatal health and wellbeing appointments, including the 6- to 8-week postnatal GP check</li> </ul>
11		vaccination appointments (both during pregnancy and after the birth)
12		community pharmacy visits
13		family hub visits
14		visits to young people's services
15		breastfeeding support group sessions. [2024]
16	1.1.10	Advise anyone who is pregnant or breastfeeding about taking vitamin D
17		and other vitamin supplements. Discuss the following and provide
18		information that is in the person's preferred format and relevant to their
19		individual circumstances and level of understanding:
20		Why vitamin supplements are needed in addition to a healthy diet.
21		Which vitamins are important during pregnancy, after pregnancy and
22		for babies and children, in particular, folic acid (see the section on folic
23		acid) and vitamin D (see the NICE guideline on vitamin D: supplement
24		use in specific population groups and NHS advice on vitamin D).
25		<ul> <li>Recommended dosages, different formulations, and how to take</li> </ul>
26		vitamin supplements.
27		<ul> <li>Ways to remember to take the vitamin supplements each day.</li> </ul>
28		Where to obtain vitamin supplements (including free or low-cost
29		supplements).
30		• Free <u>Healthy Start vitamins</u> , who is eligible, and how to apply.

1		<ul> <li>That free Healthy Start vitamins for anyone who is pregnant or</li> </ul>
2		breastfeeding contain a daily 400 microgram dose of folic acid as well
3		as vitamins C and D.
4		That free Healthy Start vitamin drops for children contain vitamins A, C
5		and D.
6		For more guidance on communication (including different formats and
7		languages), providing information, and shared decision making, see the
8		NICE guidelines on patient experience in adult NHS services and shared
9		decision making. [2024]
10	1.1.11	In line with UK government guidance, advise anyone who is pregnant or
11		breastfeeding about the following:
12		That they should take a vitamin D supplement (10 micrograms or
13		400 international units [IU] a day) between September and March, or
14		throughout the year if they are at increased risk of vitamin D deficiency
15		because they, for example:
16		<ul> <li>have darker skin, for example, people of African, African-Caribbean</li> </ul>
17		or south Asian ethnicity, because their bodies may not make enough
18		vitamin D from sunlight <b>or</b>
19		<ul> <li>have little or no exposure to sunshine because they are not often</li> </ul>
20		outdoors or usually wear clothes that cover up most of their skin
21		when outdoors.
22		<ul> <li>If they are eligible for free <u>Healthy Start vitamins</u> (which contain</li> </ul>
23		vitamins D, C and folic acid), that they should take 1 vitamin tablet a
24		day.
25		That during pregnancy they should not take cod liver oil or any
26		supplements containing vitamin A (retinol); this may include regular
27		(non-pregnancy) multivitamins.
28		If they are following a restricted diet (for example, a vegan or gluten-
29		free diet), that they may need to add foods and drinks containing
30		vitamin B12 to their diet or take a vitamin B12 supplement (see the
31		NHS advice on being vegetarian or vegan and pregnant and the NHS
32		webpage on B vitamins). See the NICE guideline on vitamin B12

1		deficiency in over 16s for advice about taking vitamin B12 supplements
2		and what to do if vitamin B12 deficiency is suspected or confirmed.
3		[2024]
4	1.1.12	Advise parents and carers that babies and children should be given
5		vitamin supplements from birth until 5 years of age, in line with <u>UK</u>
6		government advice about vitamins for babies and vitamins for children:
7		Babies from birth to 1 year who are being breastfed should be given a
8		daily supplement containing 8.5 to 10 micrograms (340 to 400 IU) of
9		vitamin D.
10		Babies who are being fed infant formula should not be given a
11		vitamin D supplement if they are having more than 500 ml (about a
12		pint) of infant formula a day, because infant formula is fortified with
13		vitamin D and other nutrients (note that infant formula is not necessary
14		from 1 year).
15		Children aged 1 to 4 years should be given a daily supplement
16		containing 10 micrograms (400 IU) of vitamin D.
17		From 6 months up until 5 years, children should also be given daily
18		supplements containing vitamins A and C, in addition to vitamin D.
19		Those eligible for free <u>Healthy Start vitamins</u> can receive the free
20		vitamin drops (which contain vitamins A, C and D and are suitable from
21		birth) up to their 4th birthday. [2024]
22	1.1.13	Commissioners and service providers should offer free vitamin D
23		supplements for anyone who is pregnant or breastfeeding, and for
24		children under 5, if they have an increased risk of vitamin D deficiency
25		(see recommendation 1.1.12). <b>[2024]</b>

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on vitamin D</u> and other vitamin supplements during and after pregnancy and for babies and children under 5.

Full details of the evidence and the committee's discussion are in <u>the evidence</u> reviews:

- evidence review E: interventions to increase uptake of vitamin supplements
   (including Healthy Start vitamins) in line with government advice
- evidence review P: facilitators and barriers to increase the uptake of government advice on folic acid and vitamin supplements.

# 1 1.2 Healthy eating, physical activity and weight management 2 during pregnancy

- 3 Unless otherwise stated, these recommendations are for all healthcare professionals
- 4 who discuss maternal health during pregnancy, in particular, midwives, dietitians and
- 5 health visitors.
- 6 The recommendations in this section should be read in conjunction with:
- NICE's guideline on antenatal care
- 8 NICE's guideline on overweight and obesity management, which covers weight
- 9 management before and after pregnancy [LINK TO BE UPDATED AT
- 10 PUBLICATION
- NHS advice on keeping well in pregnancy, particularly the sections about food and
- 12 diet
- NHS Start for Life advice on healthy eating in pregnancy
- 14 The Eatwell Guide
- NHS Healthy Start page for healthcare professionals.
- 16 1.2.1 Commissioners and service providers should ensure that healthcare
- professionals provide independent and non-commercial, evidence-based,
- 18 consistent information about healthy eating, physical activity and weight
- management during pregnancy in line with UK government advice,
- whether it is a person's first or a subsequent pregnancy. [2024]

1	Healthy	eating in pregnancy
2	1.2.2	Discuss the importance of healthy eating with anyone who is pregnant.
3		Ask people about their usual eating habits and preferences, and discuss
4		the following:
5		The benefits of healthy foods and drinks, and healthy eating habits for
6		the pregnant person, baby and the wider family.
7		<ul> <li>Foods and drinks that should be encouraged and foods and drinks to</li> </ul>
8		avoid during pregnancy. (Also see <u>UK Chief Medical Officers' Low Risk</u>
9		<b><u>Drinking Guidelines</u></b> chapter on pregnancy and drinking.)
10		Healthy food and drink options that are acceptable and available for the
11		person.
12		<ul> <li>Myths about what and how much to eat during pregnancy. For</li> </ul>
13		example, reassure people that they do not need to 'eat for two' and that
14		they do not need a special diet during pregnancy, but it is important to
15		eat a variety of different foods every day to get the right balance of
16		nutrients for them and their baby. [2024]
17	1.2.3	When discussing healthy eating in pregnancy:
18		Take into account the person's needs and circumstances.
19		<ul> <li>Provide tailored, non-judgemental and culturally sensitive information</li> </ul>
20		that is in the person's preferred format.
21		<ul> <li>Provide evidence-based, non-commercial sources of further</li> </ul>
22		information, such as printed and online materials.
23		<ul> <li>Consider additional support for young pregnant people and those from</li> </ul>
24		low income or disadvantaged backgrounds (see the NICE guideline on
25		pregnancy and complex social factors). This may include, for example,
26		longer or more frequent contacts, bespoke or enhanced services,
27		modified communication, referrals to or information about services in
28		local family hubs or charities, and information about Healthy Start
29		(depending on eligibility).
30		Take into account affordability and people's resources when giving
31		advice about a healthy diet and cooking; if needed, provide information

1		about government and local schemes that can offer advice and help to
2		access healthy food and drinks (including Healthy Start; depending on
3		eligibility) and income support schemes.
4		
5		For more guidance on communication (including different formats and
6		languages), providing information, and shared decision making, see the
7		NICE guidelines on patient experience in adult NHS services and
8		shared decision making. [2024]
9	1.2.4	Help people to gain the skills and the confidence they need to incorporate
10		healthy foods into their diet. For example, refer people to local cookery
11		classes or groups where people share their skills by cooking and eating
12		together. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on healthy</u> <u>eating in pregnancy</u>.

Full details of the evidence and the committee's discussion are in <u>the evidence</u> <u>reviews</u>:

- evidence review G: interventions for helping to achieve healthy and appropriate weight change during pregnancy
- evidence review I: interventions to increase uptake of healthy eating and drinking advice during pregnancy
- evidence review Q: facilitators and barriers to increase the uptake of government advice on healthy eating and drinking in pregnancy.

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# Physical activity in pregnancy

15 1.2.5 Discuss the importance of physical activity with anyone who is pregnant
16 (see the <u>UK Chief Medical Officers' guidance on physical activity in</u>
17 <u>pregnancy</u> and <u>NHS Start for Life advice on exercising in pregnancy</u>). Ask
18 people about their usual physical activity and exercise habits and

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1.2.7

1		preferences, and provide information on the following that is in the
2		person's preferred format and relevant to their individual circumstances:
3		<ul> <li>How to safely continue with physical activity.</li> </ul>
4		How to gradually increase physical activity during pregnancy if they are
5		not already physically active.
6		The importance of minimising sedentary time, such as sitting for long
7		periods. <b>[2024]</b>
	For a s	hort explanation of why the committee made this recommendation and how
	it might	affect practice, see the <u>rationale and impact section on physical activity in</u>
	pregna	ncy.
	Full det	tails of the evidence and the committee's discussion are in evidence
	review	G: interventions for helping to achieve healthy and appropriate weight
		e during pregnancy.
8		
9	Weight	management in pregnancy
10	1.2.6	When discussing weight during pregnancy, follow the recommendations
11		on sensitive communication and avoiding stigma during discussions about
12		weight in the NICE guideline on overweight and obesity management
13		LINK TO BE UPDATED AT PUBLICATION. For more guidance on
14		communication, providing information (including providing information in
15		different formats and languages) and shared decision making, see the
16		NICE guidelines on patient experience in adult NHS services and shared

Discuss healthy weight change during pregnancy and provide information

on the following that is in the person's preferred format and relevant to

• Different factors that can affect weight change during pregnancy, for

example, weight of the baby, weight of the placenta, maternal increase

in blood volume, amniotic fluid, breast tissue expansion and body fat,

their individual circumstances and preferences:

decision making. [2024]

1	and how these (especially the weight of the baby) vary between
2	individuals and affect weight differently.
3	The importance of maintaining or starting a healthy diet and physical
4	activity during the pregnancy.
5	• The estimated healthy ranges for total weight change during pregnancy
6	(see recommendation 1.2.13 in the section on height, weight and BMI),
7	but that there is lack of evidence about what the optimal weight change
8	per week in each trimester should be.
9	How people can monitor their diet, physical activity levels and weight
10	change during the pregnancy (see the sections on healthy eating in
11	pregnancy and physical activity in pregnancy).
12	<ul> <li>Local and online sources of information and support, including self-</li> </ul>
13	management tools and materials (particularly those that are free or low-
14	cost).
15	The risks associated with gaining excessive weight during the
16	pregnancy for people with a pre-pregnancy BMI in the healthy,
17	overweight and obesity weight categories (see NHS information on BMI
18	ranges). Risks include having a baby who is large-for-gestational age,
19	developing hypertension or gestational diabetes, or needing a
20	caesarean section (see the section on excessive weight gain in
21	pregnancy).
22	• The risks associated with gaining too little weight during the pregnancy
23	regardless of pre-pregnancy BMI, for example, having a baby who is
24	small-for-gestational age, or developing gestational diabetes (see the
25	section on low weight gain in pregnancy).
26	That there is not enough evidence to suggest that any particular
27	nutritionally balanced diet is better than another in helping to achieve
28	optimal weight change in pregnancy. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on weight</u> <u>management in pregnancy</u>.

Full details of the evidence and the committee's discussion are in the <u>evidence</u> <u>reviews</u>:

- evidence review F: healthy and appropriate weight change during pregnancy
- evidence review G: interventions for helping to achieve healthy and appropriate weight change during pregnancy.

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# Height, weight and BMI

3	1.2.8	In line with NICE's guideline on antenatal care, offer to measure the
4		person's height and weight and calculate BMI at the first face-to-face
5		antenatal appointment, and explain why this is important for planning
6		care. Use BMI percentile charts for anyone under 18, because the BMI
7		measure alone does not take growth into account and is inappropriate for
8		this age group. [2024]
9	1.2.9	Reassure the person that their weight and BMI can be shared sensitively
10		with them (for example, by being written down rather than spoken aloud),
11		or not shared with them, depending on what they prefer. [2024]
12	1.2.10	Do not routinely offer to weigh people throughout their pregnancy unless
13		there is a clinical reason to do so (for example, gestational diabetes,
14		hyperemesis gravidarum or thromboprophylaxis). [2024]
15	1.2.11	For anyone with a BMI of over 30, offer testing for gestational diabetes in
16		line with the recommendations on testing in the NICE guideline on
17		diabetes in pregnancy. [2024]
18	1.2.12	For anyone with a BMI of over 40, discuss referral to a specialist obesity
19		service or a specialist practitioner for tailored advice and support during
20		the pregnancy. [2024]
21	1.2.13	For estimated healthy total weight change in a singleton pregnancy
22		according to pre-pregnancy BMI, see table 1 in the National Academy of
23		Medicine's report on the current understanding of gestational weight gain

1		en with obesity and the need for future research. Take into
2	account:	
3	<ul><li>the persor</li></ul>	a's individual risk in relation to weight change during
4	pregnancy	and
5	<ul><li>the balance</li></ul>	e between potential negative and positive outcomes
6	associated	d with weight gain that is outside the recommended weight
7	change in	pregnancy. [2024]
	For a short explanation	of why the committee made these recommendations and
	how they might affect p	practice, see the <u>rationale and impact section on height,</u>
	weight and BMI.	
	Full details of the evide	ence and the committee's discussion are in the evidence
	reviews:	
	a ovidence review E:	acalthy and appropriate weight change during programmy
		nealthy and appropriate weight change during pregnancy interventions for helping to achieve healthy and appropriate
	weight change durin	
		facilitators and barriers to increase the uptake of
		on healthy eating and drinking in pregnancy.
	government advice	on healthy cating and drinking in pregnancy.
8		
9	Excessive weight ga	in in pregnancy
10	1.2.14 If there are co	oncerns about excessive weight gain during pregnancy:
11	<ul><li>ask for fur</li></ul>	ther details, and discuss healthy eating and physical activity
12	in pregnar	ncy (see the sections on <u>healthy eating in pregnancy</u> and
13	physical a	ctivity in pregnancy, and recommendation 1.2.7 in the section
14	on weight	management in pregnancy)
15	<ul> <li>ensure rou</li> </ul>	itine monitoring of the baby to check whether they are
16	potentially	large for their gestational age (also see the section on
17	monitoring	fetal growth and wellbeing in NICE's guideline on antenatal
18	<u>care</u> )	
10	• consider a	test for gestational diabetes [2024]

For a short explanation of why the committee made this recommendation and how it might affect practice, see the <u>rationale and impact section on excessive weight</u> gain in pregnancy.

Full details of the evidence and the committee's discussion are in <u>evidence review</u>

F: healthy and appropriate weight change during pregnancy.

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#### Low weight gain in pregnancy

- 1.2.15 If there are concerns about low weight gain during pregnancy:
  - ask for further details and discuss healthy eating and physical activity in pregnancy (see the sections on <u>healthy eating in pregnancy</u> and <u>physical activity in pregnancy</u>, and recommendation 1.2.7 in the section on <u>weight management in pregnancy</u>)
    - ensure routine monitoring of the baby to check whether they are
      potentially small for their gestational age (also see the <u>section on</u>
      <u>monitoring fetal growth and wellbeing in NICE's guideline on antenatal</u>
      <u>care</u>)
    - consider a test for gestational diabetes. [2024]

For a short explanation of why the committee made this recommendation and how it might affect practice, see the <u>rationale and impact section on low weight gain in pregnancy</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review F: healthy and appropriate weight change during pregnancy.

#### Gestational diabetes

- 14 The recommendations in this section should be read in conjunction with the NICE
- 15 guideline on diabetes in pregnancy.
- 16 1.2.16 When a person is diagnosed with gestational diabetes, ask about their
- 17 usual diet and physical activity in order to provide individualised advice.
- 18 **[2024]**

1	1.2.17	Advise people with gestational diabetes that there is currently no
2		convincing evidence that a particular diet (for example, a low-glycaemic
3		index diet, low-carbohydrate diet, low-fat diet, or high-fibre diet) is better
4		than the other. Discuss a healthy diet for gestational diabetes that is the
5		most preferable and appropriate for the person. See NHS advice on a
6		healthy diet for gestational diabetes. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on gestational</u> <u>diabetes</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review H: healthy lifestyle interventions for those with gestational diabetes.

# 7 1.3 Breastfeeding and formula feeding

- 8 Unless otherwise stated, these recommendations are for all healthcare professionals
- 9 who discuss babies' feeding, as well as breastfeeding peer supporters.
- 10 The recommendations in this section should be read in conjunction with:
- the recommendations on planning and supporting babies' feeding in the NICE
- 12 guideline on postnatal care (which covers the antenatal period and the first
- 13 8 weeks after birth)

18

- NICE's guideline on faltering growth
- NHS Start for Life advice on feeding your baby
- the recommendations in the SACN report on feeding in the first year of life
- the UNICEF baby friendly initiative.

#### Continuing breastfeeding beyond 8 weeks after birth

- 19 1.3.1 Provide support throughout the pregnancy and the postnatal period about
- 20 planning, starting and establishing breastfeeding in line with the
- 21 recommendations on planning and supporting babies' feeding in the NICE
- 22 guideline on postnatal care, to improve the likelihood of continued
- breastfeeding in line with national recommendations. [2024]

1	1.3.2	At each health contact, provide information, advice and reassurance
2		about continuing or re-establishing exclusive breastfeeding until the baby
3		is around 6 months old, and about the importance of continuing
4		breastfeeding alongside solid foods until around 2 years. Topics to
5		discuss or ask about include the following:
6		The baby's feeding, and whether there are any new or continuing
7		issues with, or questions about, breastfeeding.
8		The value of breastfeeding and breast milk for the baby's health and
9		development, and for maternal health (see NHS Start for Life advice on
10		the benefits of breastfeeding).
11		The importance of feeding only breast milk to maintain breastfeeding as
12		supplementing with formula milk compromises breast milk supply.
13		Psychological factors such as the emotional impact of, and motivation
14		to continue, breastfeeding.
15		How people can feel more confident and comfortable to breastfeed in
16		different situations, including the right to breastfeed in any public space
17		(under the Equality Act 2010).
18		The level of support available from partners, family and friends to
19		continue breastfeeding.
20		Attending local breastfeeding support groups, for example,
21		breastfeeding 'cafes' and drop-in groups.
22		Practical suggestions and tips for convenience, such as having a
23		stockpile of expressed breast milk. See NHS Start for Life advice on
24		expressing breast milk.
25		Reassurance that there is no need to follow a special diet while
26		breastfeeding. [2024]
27	1.3.3	Provide information and encouragement for partners and other family
28		members to support continued breastfeeding, as appropriate. [2024]
29	1.3.4	When discussing continuing breastfeeding, allow adequate time so that
30		conversations do not feel rushed. Information provided should support
31		informed decision making and be:

1		<ul> <li>clear, evidence-based and consistent</li> </ul>
2		<ul> <li>tailored to the person's needs, preferences, beliefs, culture and</li> </ul>
3		circumstances
4		supportive and respectful.
5		
6		For more guidance on communication, providing information (including
7		providing information in different formats and languages) and shared
8		decision making, see the NICE guidelines on patient experience in
9		adult NHS services and shared decision making. [2024]
10 11 12	1.3.5	Provide additional support (for example, virtual support groups, phone calls, emails or text messages, depending on the person's preference) to supplement (but not replace) face-to-face discussions about continuing
13		breastfeeding. This may include information about out-of-hours support
14		(such as the <u>national breastfeeding helpline</u> ) and peer support. <b>[2024]</b>
15	1.3.6	Offer face-to-face breastfeeding support group sessions (such as
16		breastfeeding 'cafes' or drop-in groups) where appropriately trained
17		healthcare professionals or peer supporters provide people with
8		individualised, practical, emotional and social support to maintain
19		breastfeeding. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale and impact section on continuing</u> <u>breastfeeding beyond 8 weeks after birth</u>.

Full details of the evidence and the committee's discussion are in the <u>evidence</u> reviews:

- evidence review J: approaches and interventions for maintaining breastfeeding beyond 8 weeks after birth
- evidence review K: facilitators and barriers for maintaining breastfeeding beyond 8 weeks after birth.

ı	Contin	uing breastieeding after returning to work or study
2	1.3.7	Reassure people who are breastfeeding that they do not need to stop
3		when they return to work or education. See NHS Start for Life advice on
4		breastfeeding and returning to work. [2024]
5	1.3.8	Encourage people to inform their employer or education provider about
6		continuing breastfeeding in good time before they return to work or study.
7		Advise that they may find it helpful to involve human resources or student
8		services in the discussions, as appropriate. [2024]
9	1.3.9	Discuss how people can balance breastfeeding with returning to work or
10		education, and encourage them to think about what support they may
11		need from their employer or education provider for as long as they
12		continue breastfeeding. Topics to discuss include the following:
13		The person's views and preferences about continuing breastfeeding
14		when they return to work or education.
15		<ul> <li>The timing of any shared parental leave, because it may be more</li> </ul>
16		helpful for the other parent to take parental leave after breastfeeding
17		has been well established.
18		The timing of the person's return to work or education, whether they
19		can take extended leave or extend their studies, and whether there are
20		flexible working or learning possibilities such as different working hours
21		or days, hybrid or remote work or study options.
22		<ul> <li>The support that employers and education providers can offer, for</li> </ul>
23		example, providing a private, safe and hygienic area to express milk,
24		fridge and storage space, and additional breaks.
25		That the Equality Act 2010 states that it is legal to breastfeed in public
26		places anywhere in the UK, and that it is unlawful for businesses to
27		discriminate against anyone who is breastfeeding a child of any age.
28		That employers have legal requirements and guidance that they need
29		to follow, for example:
30		<ul> <li>Health and Safety Executive (HSE) guidance for employers about</li> </ul>
31		protecting pregnant workers and new mothers and

1		<ul> <li>ACAS advice on accommodating breastfeeding employees in the</li> </ul>
2		workplace.
3		How to express breastmilk (by hand or with a breast pump) and how to
4		safely store expressed breast milk. See NHS Start for Life advice on
5		expressing breast milk.
6		Childcare options and the practical benefits of childcare being near to
7		the place of work or education.
8		Sources of further advice and support about returning to work or
9		education, for example, helplines such as the National breastfeeding
10		helpline, peer support and local and national support groups. [2024]
11	1.3.10	Employers, human resource teams, senior leadership staff and managers,
12		and staff in education settings should take into account the following, in
13		order to improve the work and education environment and meet legislation
14		around accommodating breastfeeding employees or students:
15		Legal requirements and guidance for employers, for example:
16		<ul> <li>Health and Safety Executive (HSE) guidance for employers about</li> </ul>
17		protecting pregnant workers and new mothers and
18		<ul> <li>ACAS advice on accommodating breastfeeding employees in the</li> </ul>
19		workplace.
20		<ul> <li>Options for flexible, hybrid or home working.</li> </ul>
21		<ul> <li>How settings can support people to breastfeed or express milk (for</li> </ul>
22		example, providing a private space, fridge and storage space, and
23		additional breaks).
24		<ul> <li>Developing a breastfeeding policy for employees and students.</li> </ul>
25		<ul> <li>Appointing a designated breastfeeding lead.</li> </ul>
26		<ul> <li>Training for all employees about policies and legislation.</li> </ul>
27		Support from breastfeeding ambassadors, champions or advocates,
28		and from peers. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the rationale and impact section on continuing breastfeeding after returning to work or study.

Full details of the evidence and the committee's discussion are in evidence review M: facilitators and barriers to continue breastfeeding when returning to work or study.

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# Formula feeding

- 2 3 1.3.11 Commissioners and service providers should ensure that healthcare 4 professionals provide independent and non-commercial, evidence-based, 5 consistent advice on safe and appropriate formula feeding. [2024] 6 1.3.12 Commissioners and service providers should ensure that healthcare 7 professionals do not inadvertently promote or advertise infant or follow-on 8 formula by displaying, distributing or using any materials or equipment 9 produced or donated by infant formula, bottle and teat manufacturers, including, but not limited to, product samples, leaflets, posters or charts. 10 11 [2024] 12 1.3.13 At every health contact, ask about how the baby's feeding is going. If the 13 baby is breastfed and the parents are thinking about introducing formula, 14 or if they require further information about formula feeding or combination 15 feeding, discuss their reasons for thinking about formula milk in a 16 sensitive, non-judgemental way to help them make an informed decision. 17 Also see the recommendations on formula feeding in the NICE guideline 18 on postnatal care. [2024] 1.3.14 If parents choose formula feeding, direct them to additional sources of 19 20 support and non-commercial, evidence-based, consistent advice on safe 21 and appropriate formula feeding such as:
- 22 NHS Start for Life advice on bottle feeding
  - NHS Start for Life advice on mixed feeding

1		NHS bottle feeding advice
2		UNICEF's Baby Friendly Initiative guide to bottle feeding
3		NHS advice on when to introduce beakers and cups
4		schemes that offer advice and help to buy healthy food and milk
5		(including Healthy Start; depending on eligibility). [2024]
	how they feeding. Full detail	ort explanation of why the committee made these recommendations and might affect practice, see the rationale and impact section on formula als of the evidence and the committee's discussion are in evidence
		facilitators and barriers to follow existing government advice on safe and
	appropria	ate formula feeding.
6		
_	4.4	Mark to the control of the control o
7	1.4	Weighing babies and young children
8 9 10 11 12 13	1.4.1	As a minimum, weigh babies at birth and in the first week as part of an overall assessment of feeding. If a baby loses more than 10% of their birth weight in the early days of life, measure their weight again at appropriate intervals depending on the level of concern, but no more frequently than daily, in line with the <a href="NICE guideline on faltering growth">NICE guideline on faltering growth</a> . Also see the recommendations on weighing babies in the sections on:
14		care of the newborn baby in the NICE guideline on intrapartum care
15		and
16 17		assessment and care of the baby in the NICE guideline on postnatal care. [2011, amended 2024]
18	1.4.2	Weigh healthy babies at 8, 12 and 16 weeks and at 1 year, at the time of
19 20		routine immunisations. If there is concern, see NICE guideline on faltering growth. [2011, amended 2024]
21	1.4.3	Weigh babies using digital scales that are maintained and calibrated
22 23		annually, in line with medical devices standards (spring scales are inaccurate and should not be used). [2008]

1 2 3	1.4.4	receive training on weighing and measuring babies. This should include how to:	
4		use equipment	
5		document and interpret the data and	
6		<ul> <li>help parents and carers understand the results and implications. [2008]</li> </ul>	
7	1.4.5	Ensure that support staff are trained to weigh babies and young children	
8 9		and to record the data accurately in the child health record held by the parents. [2008]	
10	1.5	Healthy eating behaviours in babies and children from	
11		6 months and up to 5 years	
12	Unless of	herwise stated, these recommendations are all healthcare professionals	
13		uss child nutrition.	
14	The recor	nmendations in this section should be read in conjunction with:	
15	• NICE's	guidelines on:	
16	<ul> <li>faltering growth</li> </ul>		
17	<ul> <li>oral health promotion for local authorities and partners</li> </ul>		
18	<ul> <li>oral health promotion for general dental practice</li> </ul>		
19	- food	allergy under 19s: assessment and diagnosis	
20	• the rec	ommendations for improving nutrition in schools, nurseries and childcare	
21	facilitie	s in the NICE guideline on overweight and obesity management LINK TO	
22		DATED AT PUBLICATION ]	
23		ommendations in the SACN reports on:	
24		ling in the first year of life	
25		ling young children aged 1 to 5 years	
26		dvice on:	
27		ning and feeding	
28		l allergies in babies and young children	
29	NHS Start for Life advice on weaning.		

1	Introduc	cing solid foods (complementary feeding) for babies between
2	6 month	s and 1 year
3 4 5 6 7	1.5.1	Commissioners and providers of services should ensure that healthcare professionals have independent and non-commercial, evidence-based, and consistent information about the timely and appropriate introduction of solid foods to babies in line with UK government advice and this guideline.  [2024]
8 9 10 11	1.5.2	Commissioners and providers of services should support healthcare professionals who have knowledge and expertise in introducing solid foods to babies (for example, health visitors) to act as 'champions' to pass on information to other staff. [2024]
12	1.5.3	In the final trimester of pregnancy, advise parents-to-be:
13 14 15 16		<ul> <li>that they should introduce solid foods to their baby from around 6 months onwards, alongside usual milk feeds</li> <li>about government and local schemes that offer advice and help to buy healthy food and milk (including <u>Healthy Start</u>; depending on eligibility), and income support schemes. [2024]</li> </ul>
18 19 20 21	1.5.4	When the baby is 2, 3 and 4 months old, remind parents that they should not introduce solid foods until their baby is around 6 months old. This could include reminders at appointments, or by sending text messages or letters. [2024]
22 23 24 25	1.5.5	When the baby is between 4 and 5 months old, arrange an opportunity for parents to find out more about introducing their baby to solid food from the age of 6 months. This could be a face-to-face or online appointment, phone consultation or group session. [2024]
26 27 28	1.5.6	When discussing and giving advice on introducing solid foods, take into account the family's circumstances and living conditions, and be culturally sensitive. [2024]

1	1.5.7	During discussions about introducing solid foods, provide independent,
2		non-commercial, evidence-based information in line with current UK
3		government advice, and use printed or online resources (for example,
4		Start for Life materials) to complement and reinforce the discussions.
5		Topics to discuss include the following:
6		When and how to introduce solid foods.
7		Appropriate foods and drinks to introduce.
8		Offering a variety of foods, flavours and textures (not all sweet).
9		The benefits of homemade foods (without adding sugar, salt or
10		sweetening agents).
11		The introduction of cups and beakers alongside solid foods.
12		Foods and drinks to avoid.
13		Building up feeding frequency and increasing the diversity of foods over
14		time.
15		Responsive feeding.
16		The continuing role of breast milk, breastfeeding and infant formula.
17		Addressing concerns and anxieties related to introducing solids.
18		Dealing with concerns about gagging and choking, and common
19		challenges like mess and food waste.
20		That babies should not be left alone when they are eating or drinking.
21		That parents should introduce potentially allergenic foods, including
22		egg and peanut products in small amounts in age-appropriate forms
23		alongside other solid foods; advice and reassurance about why this is
24		important, signs of an allergic reaction, and what to do if symptoms
25		occur.
26		Being aware of potentially misleading information and marketing from
27		commercial baby food companies that conflicts with UK government
28		guidance, for example, age of introduction, hidden sugar content and
29		snack foods.
30		<ul> <li>Concerns about the cost of healthy food and where to get support,</li> </ul>
31		including government and local schemes that offer advice and help to

1		buy healthy food and milk (including Healthy Start; depending on
2		eligibility) and income support schemes. [2024]
3	1.5.8	For babies between 6 and 12 months, at every contact and at the Healthy
4		Child Programme developmental review at 8 to 12 months, ask about the
5		baby's feeding and remind families of the topics discussed in
6		recommendation 1.5.7. [2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the rationale and impact section on introducing solid foods (complementary feeding) for babies between 6 months and 1 year.

Full details of the evidence and the committee's discussion are in the evidence reviews:

- evidence review N: interventions to promote appropriate and timely introduction to solids (complementary feeding) for babies from 6 to 12 months
- evidence review R: facilitators and barriers to increase the uptake of government advice on appropriate and timely introduction to solids and healthy eating and drinking in children

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8

#### Healthy eating and drinking for children from 1 up to 5 years

9	1.5.9	Commissioners and providers of services should ensure that healthcare
10		professionals and people working in early years services have
11		independent and non-commercial, evidence-based, and consistent
12		information about healthy eating and drinking for children from 1 up to
13		5 years, in line with UK government advice and this guideline. [2024]
14	1.5.10	Take into account the family's circumstances, and sensitively tailor the
15		discussion and advice around healthy eating and drinking to the family's
16		needs, circumstances, preferences and understanding. Give particular
17		consideration to children from low income or disadvantaged backgrounds,
18		for example, by providing additional support for their families, such as
19		longer or more frequent contacts, bespoke or enhanced services,

2		family hubs or charities and information about Healthy Start (depending on eligibility). [2024]
4 5 6	1.5.11	Provide independent, non-commercial, evidence-based and consistent information on healthy eating practices and promote interventions, such as:
7 8 9 10		<ul> <li>schemes that improve access to healthy foods, for example, <u>Healthy Start</u>, free school meals, or local initiatives</li> <li>interventions that improve families' skills and confidence to include healthy foods in their diet such as 'cook and eat' classes. [2024]</li> </ul>
11 12 13 14	1.5.12	When discussing healthy eating and drinking with families, provide information, and use printed or online resources (for example, <u>Start for Life materials</u> ) to complement and reinforce the discussions. Topics to discuss include the following:
15 16 17 18 19 20		<ul> <li>The importance of a balanced and diverse diet, comprised of 3 meals a day, 2 healthy snacks and water or milk.</li> <li>That formula milks are not needed, sugar-sweetened drinks should not be given, and fruit juice should be limited (no more than 150 ml per day).</li> <li>That the UK government dietary recommendations as depicted in the</li> </ul>
<ul><li>20</li><li>21</li><li>22</li><li>23</li></ul>		<ul> <li>Eatwell Guide apply from around 2 years of age.</li> <li>The benefits of homemade food (without adding sugar, salt or sweetening agents).</li> </ul>
<ul><li>24</li><li>25</li><li>26</li></ul>		<ul> <li>Ensuring that snacks offered between meals are low in sugar and salt     (for example, vegetables, fruit, plain (not flavoured) milk, bread and     homemade sandwiches with savoury fillings).</li> </ul>
<ul><li>27</li><li>28</li><li>29</li></ul>		<ul> <li>The importance of families eating together, and how parents and carers can set a good example through their own food choices.</li> <li>Encouraging children to repeatedly handle and taste a wide range of</li> </ul>
30 31		<ul><li>vegetables and fruit at home and in early years settings.</li><li>Avoiding food-based rewards, and instead use, for example, stickers.</li></ul>

Being aware of potentially misleading information and marketing from
commercial food companies that conflicts with UK government
guidance, for example, hidden sugar content and pre-packaged snack
foods.
<ul> <li>Concerns about the cost of healthy food and where to get support,</li> </ul>
including government schemes that offer advice and help to buy
healthy food and milk (including Healthy Start depending on eligibility),
free school meal schemes, local initiatives, and income support
schemes. [2024]
Early years settings should ensure that healthy eating and drinking are
prioritised, and that actions are part of a whole setting approach that
involve the following:
Providing healthy foods and drinks in line with the <u>Early years</u>
foundation stage (EYFS) statutory framework (if possible, prepared on-
site; also see example menus for early years settings in England),
including produce from settings-based gardens where possible.
<ul> <li>Repeated offering of unfamiliar foods (vegetables and fruit) and role</li> </ul>
modelling.
Talking to children about healthy foods and healthy eating, and food
education such as cooking, play, and themed weeks.
Involving families and carers to promote consistency between the
setting and home.
See also recommendations on preventing overweight, obesity and
central adiposity for early-years settings, nurseries, other childcare
facilities and schools in the NICE guideline on overweight and obesity
management [LINK TO BE UPDATED AT PUBLICATION]. [[2024]

For a short explanation of why the committee made these recommendations and how they might affect practice, see the <u>rationale section on healthy eating and drinking for children from 1 to 5 years</u>.

Full details of the evidence and the committee's discussion are in the <u>evidence</u> reviews:

- evidence review O: interventions to promote healthy eating and drinking practices, including complementary feeding, in children from 12 months to 5 years
- evidence review R: facilitators and barriers to increase the uptake of government advice on appropriate and timely introduction to solids and healthy eating and drinking in children

### 1 Recommendations for research

- 2 The guideline committee has made the following recommendations for research.
- 3 Key recommendations for research
- 4 1 Digital technologies to increase uptake of folic acid supplementation
- 5 What is the clinical and cost effectiveness of digital technologies (for example, social
- 6 media and online support groups) to increase the uptake of folic acid
- 7 supplementation before and during the first 12 weeks of pregnancy? [2024]

For a short explanation of why the committee made this recommendation for research, see the <u>rationale section on folic acid before and during pregnancy</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review C: interventions to increase uptake of folic acid supplementation before and during the first 12 weeks of pregnancy.

# 8 2 High-dose folic acid supplementation

- 9 What is the safest and most effective dose for folic acid supplementation before and
- during the first 12 weeks of pregnancy for people at a high risk of conceiving a child
- with a neural tube defect or congenital malformation? [2024]

For a short explanation of why the committee made this recommendation for research, see the <u>rationale section on folic acid before and during pregnancy</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review A: high-dose folic acid supplementation before and during the first 12 weeks of pregnancy.

- 1 3 Optimum dose of vitamin D during pregnancy for people with a BMI
- 2 that is within the overweight or obesity weight categories
- What dose of vitamin D is appropriate during pregnancy for people with a body mass
- 4 index (BMI) that is within the overweight or obesity weight categories? [2024]

For a short explanation of why the committee made this recommendation for research, see the <u>rationale section on vitamin D and other vitamin supplements</u> during and after pregnancy.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review D: optimum vitamin D dose during pregnancy for those medically classified</u>

<u>as overweight or obese.</u>

- 5 4 Dietary interventions during pregnancy for people with gestational
- 6 diabetes
- What are the most clinically and cost-effective dietary interventions to improve
- 8 glycaemic control, maternal and baby outcomes for people with gestational
- 9 diabetes? **[2024]**

For a short explanation of why the committee made this recommendation for research, see the rationale section on gestational diabetes.

Full details of the evidence and the committee's discussion are in <u>evidence</u> review H: healthy lifestyle interventions for those with gestational diabetes.

#### 1 5 Safe and appropriate formula feeding

- 2 What are the facilitators and barriers for safe and appropriate formula feeding in the
- 3 context of poverty and food insecurity? [2024]

For a short explanation of why the committee made this recommendation for research, see the <u>rationale section on formula feeding</u>.

Full details of the evidence and the committee's discussion are in <u>evidence</u>

<u>review L: facilitators and barriers to follow existing government advice on safe and appropriate formula feeding.</u>

4

5

# Rationale and impact

- 6 These sections briefly explain why the committee made the recommendations and
- 7 how they might affect practice.

# 8 Folic acid before and during pregnancy

9 Recommendations 1.1.1 to 1.1.8

#### 10 Why the committee made the recommendations

- 11 Evidence on interventions to improve the uptake of folic acid supplementation before
- 12 and during pregnancy showed mixed findings. Overall, information provision and
- education interventions compared to usual care helped to improve uptake, when
- 14 provided face-to-face as well as in printed materials, and when delivered by
- 15 healthcare professionals. Qualitative evidence also highlighted the importance of
- 16 making information about folic acid supplementation before and during pregnancy
- 17 available in different healthcare settings that people who may become pregnant visit,
- to raise awareness of its importance. This could be in the form of, for example,
- 19 posters or leaflets.
- 20 In addition to having information readily available, the committee agreed that folic
- 21 acid supplementation should be proactively discussed with anyone who is likely to
- become pregnant, planning to become pregnant or is already pregnant. Qualitative
- 23 evidence showed that barriers to taking folic acid supplements include

- 1 misinformation or confusion about the impact of folic acid, including a belief that it
- 2 causes nausea. The committee agreed the importance of providing information in
- 3 line with government advice, and reassuring people that folic acid supplementation is
- 4 well tolerated and low cost or, in some cases, free.
- 5 No evidence was identified on high-dose (5 mg or more) folic acid during
- 6 preconception and pregnancy, although 5 mg is the current recommended dose for
- 7 those with an increased risk of conceiving a child with neural tube defects or other
- 8 congenital malformations.
- 9 There was evidence that women with a history of births affected by neural tube
- 10 defects who took 4 mg of folic acid before conception and during pregnancy had a
- 11 lower risk of having a baby with a neural tube defect in the current pregnancy. No
- evidence was available for other known 'at-risk' groups so these were based on
- 13 committee consensus. Based on the evidence, the committee would have
- recommended 4 mg of folic acid as the high dose for the 'at-risk' populations;
- however, 5 mg is recommended, partly for practical reasons, and it reflects current
- practice. This is because the only formulations available are 0.4 mg
- 17 (400 micrograms) and 5 mg, so it is not feasible for people to take 4 mg. Folic acid is
- 18 generally well tolerated even in high doses, and there is no known evidence of harm
- in different populations (evidence for other populations was not reviewed by the
- committee). There is also likely little difference between a 5 mg and 4 mg dose
- 21 because folic acid does not have a narrow therapeutic index. The recommendation
- reflects current practice because 5 mg is the current recommended dose for those
- with increased risk of having a baby with neural tube defects or other congenital
- 24 malformations. The committee also made a recommendation for more research into
- 25 the safest and most effective dose of folic acid supplementation for this population.
- 26 There was no evidence to support high-dose folic acid for those with a BMI that is
- 27 within the overweight or obesity weight categories. The committee agreed that the
- standard dose of 400 micrograms is sufficient, unless there are other factors that
- increase the risk of having a baby with neural tube defect or congenital malformation.
- For those at risk of pre-eclampsia, the evidence, while limited, did not show that
- 31 high-dose folic acid would prevent pre-eclampsia. The committee agreed that people

- 1 who have had bariatric surgery may need specific advice about folic acid and other
- 2 micronutrients before and during pregnancy.
- 3 The committee also agreed that support and encouragement should be available for
- 4 people who do not take folic acid supplements as recommended.
- 5 The evidence on the role of digital technologies to improve uptake of folic acid
- 6 supplementation before and during pregnancy was limited, so the committee made a
- 7 research recommendation on the clinical and cost effectiveness of such
- 8 technologies.

## 9 How the recommendations might affect practice

- 10 Overall, the recommendations should reinforce best practice. Providing targeted
- 11 information and reminders may have a small resource impact but this should be
- offset by the benefits of improving folic acid uptake. The recommendations on high-
- dose folic acid generally reflect current practice. However, there will be a change in
- practice because people with a BMI that is within the obesity weight category will no
- longer be advised to take high-dose folic acid unless they have other risk factors.
- 16 Return to recommendations
- 17 Vitamin D and other vitamin supplements during and after
- pregnancy and for babies and children under 5
- 19 Recommendations 1.1.9 to 1.1.13

- Overall, there was limited evidence on interventions to improve the uptake of vitamin
- 22 supplements. Qualitative evidence showed that people sometimes lacked
- 23 information about the benefits of vitamin D supplementation or found the information
- 24 confusing. Tailored information provided in different appointments, settings and
- 25 opportunities was preferred. The committee agreed that healthcare professionals
- 26 should provide current government advice about vitamin supplementation at various
- 27 opportunities and in different settings.
- 28 There was some evidence that information provision, together with a supply of
- 29 vitamin D drops, improved vitamin D uptake in babies aged 3 months. The

- 1 committee agreed that it is important to make people aware of the Healthy Start
- 2 scheme so that those eligible can access free vitamins. Qualitative evidence showed
- 3 that even those eligible for the free Healthy Start vitamins sometimes struggle to
- 4 obtain them for various reasons, emphasising the importance of information from
- 5 healthcare professionals. Because the Healthy Start scheme is not universally
- 6 available, the committee agreed that providing free vitamin supplements to those at
- 7 an increased risk of vitamin D deficiency could prevent vitamin D deficiency and
- 8 associated outcomes. There was evidence that free vitamin D supplementation
- 9 during pregnancy and for children up to 4 years of age with dark or medium tone skin
- 10 (who are at higher risk for vitamin D deficiency) is cost-effective.
- 11 Evidence on the appropriate dose of vitamin D during pregnancy for people with a
- 12 BMI that is within the overweight or obesity weight categories was limited and
- inconclusive, so the committee made a <u>research recommendation on the optimum</u>
- dose of vitamin D for people with a body mass index (BMI) that is within the
- 15 overweight or obesity weight categories.

## 16 How the recommendations might affect practice

- 17 The recommendations on information provision reinforces current best practice. Free
- 18 Healthy Start vitamins are already available in some areas for everyone who is
- 19 pregnant or breastfeeding and children under 5, regardless of their eligibility for the
- wider Healthy Start scheme. Where this is not available, provision of free vitamin
- 21 supplements for those at an increased risk of deficiency may have some resource
- impact but this should be balanced by preventing vitamin D deficiency.
- 23 Return to recommendations

## 24 Healthy eating in pregnancy

25 Recommendations 1.2.1 to 1.2.4

- 27 The recommendations are based on quantitative and qualitative evidence and the
- 28 committee's expertise.

- 1 Evidence from randomised controlled trials showed that information provision and
- 2 education on healthy eating and drinking during pregnancy (compared to usual care)
- 3 had some beneficial effects on eating practices.
- 4 Qualitative evidence suggested that people value personalised discussions with
- 5 midwives about healthy eating. Feeling accepted and understood were considered
- 6 important. There was qualitative evidence that young pregnant people lack trust in
- 7 healthcare professionals because of a perceived lack of support and understanding
- 8 of their situation.
- 9 There was evidence that overall, dietary advice from healthcare professionals leads
- 10 to better understanding for the person and their unborn baby, and influences uptake
- of healthy cooking and eating habits in the long term. Qualitative evidence also
- showed that, in addition to discussions, people value other written information,
- particularly in digital formats, and want these to be trustworthy. The committee
- 14 agreed that information sources should be evidence-based and non-commercial.
- 15 A major barrier for healthy eating identified in qualitative research is the cost of
- healthy food. The committee agreed that practical support and advice about
- 17 accessing free or affordable foods and financial help is essential in supporting
- pregnant people to eat healthily. In addition, people lack confidence and skills in
- 19 cooking healthy meals, so classes where people can learn to cook healthy,
- affordable meals were highlighted as an example of how to overcome this.

## How the recommendations might affect practice

- 22 The recommendations reinforce current best practice. In some areas, the
- 23 recommendations may have small resource implications relating to the additional
- 24 healthcare professional time needed to discuss healthy eating in pregnancy,
- 25 particularly with young people and those from low income or disadvantaged
- 26 backgrounds.

21

- 27 Return to recommendations
- 28 Physical activity in pregnancy
- 29 Recommendation 1.2.5

## 1 Why the committee made the recommendation

- 2 Overall, evidence on physical activity-based interventions during pregnancy showed
- 3 no impact on weight change during pregnancy, but showed some benefit in terms of
- 4 other outcomes such as reducing the rate of gestational diabetes and babies being
- 5 large-for-gestational age. The committee agreed that starting or maintaining
- 6 moderate physical activity during pregnancy is important for both the pregnant
- 7 person and their unborn baby. They recommended that discussion around physical
- 8 activity is individualised and based on a discussion about the person's usual habits
- 9 and preferences, because this will help encourage physical activity during
- 10 pregnancy.

## 11 How the recommendation might affect practice

- 12 The recommendation reinforces current best practice. In some areas, the
- 13 recommendation may have small resource implications relating to the additional
- 14 healthcare professional time needed to discuss physical activity in pregnancy.
- 15 Return to recommendations

## 16 Weight management in pregnancy

17 Recommendations 1.2.6 and 1.2.7

- 19 The committee were aware that discussions around weight are often perceived as
- 20 judgemental and insensitive. This can prevent people from engaging, and creates
- 21 distrust and negative feelings towards healthcare professionals.
- 22 Evidence from randomised controlled trials was not able to show that dietary and
- 23 physical activity interventions are particularly helpful in managing weight in
- 24 pregnancy; however, they did show some other benefits, for example, on gestational
- 25 hypertension and pre-eclampsia. Quantitative evidence was also unable to
- 26 determine the optimal weight change during pregnancy for any pre-pregnancy weight
- 27 category.
- 28 However, the evidence showed that either low or excessive weight gain during
- 29 pregnancy both lead to an increased chance of some adverse outcomes. Excess

- 1 weight gain in particular, is associated with adverse outcomes such as gestational
- 2 hypertension, gestational diabetes and the baby being large-for-gestational age.
- 3 Those with a pre-pregnancy BMI in the overweight and obesity weight categories are
- 4 most affected, although an impact was also seen in those with a pre-pregnancy BMI
- 5 in the healthy weight category.

## 6 How the recommendations might affect practice

- 7 The recommendations reinforce current best practice. In some areas, the
- 8 recommendations may have some resource implications relating to the additional
- 9 healthcare professional time needed to discuss weight management in pregnancy.
- 10 Return to recommendations

## 11 Height, weight and BMI

13

12 Recommendations 1.2.8 to 1.2.13

- 14 BMI is currently calculated at the antenatal booking appointment, in line with current
- 15 practice and the NICE antenatal care guideline. This enables risk assessment and
- determines the need for further tests or referral.
- 17 The committee agreed that weighing everyone throughout pregnancy is not needed
- and should only be offered when there is a clinical need. The committee agreed that
- 19 a referral to a specialist obesity service or a specialist practitioner should be
- 20 discussed with people with a pre-pregnancy BMI of 40 or over because of the higher
- 21 risk of complications and other considerations during the pregnancy. Quantitative
- 22 evidence was unable to determine the optimal weight change during pregnancy for
- any pre-pregnancy weight category. However, there are estimates of healthy total
- 24 weight change in singleton pregnancy according to the pre-pregnancy BMI (separate
- estimates exist for twin pregnancies), which may be helpful to use in discussions,
- 26 although these estimates do not account for trimester-specific healthy weight
- 27 change. The committee agreed that healthcare professionals should take into
- account individual factors that could influence weight change in pregnancy, for
- 29 example, comorbidities such as thyroid disease, renal disease and gestational
- 30 hypertension, and previous pregnancy history.

## 1 How the recommendations might affect practice

- 2 The recommendations reinforce current best practice.
- 3 Return to recommendations
- 4 Excessive weight gain in pregnancy
- 5 Recommendation 1.2.14
- 6 Why the committee made the recommendation
- 7 There was evidence that excessive weight gain during pregnancy is associated with
- 8 gestational diabetes in people with a pre-pregnancy BMI in the healthy, overweight
- 9 and obesity weight categories. Excessive weight gain is also associated with the
- 10 baby being large-for-gestational age.
- 11 How the recommendation might affect practice
- 12 More people may be considered for gestational diabetes testing, but resource
- implications are not expected to be significant, and any potential additional cost is
- 14 likely to be offset by the benefits of early identification of gestational diabetes. It is
- current practice to offer people with a pre-pregnancy BMI in the obesity weight
- 16 category testing for gestational diabetes.
- 17 Return to recommendations
- 18 Low weight gain in pregnancy
- 19 Recommendation 1.2.15
- 20 Why the committee made the recommendation
- 21 There was evidence that low weight gain during pregnancy is associated with the
- 22 baby being small-for-gestational age, and gestational diabetes across all pre-
- 23 pregnancy weight categories.
- 24 How the recommendation might affect practice
- 25 More people may be considered for gestational diabetes testing, but resource
- 26 implications are not expected to be significant, and any potential additional cost is
- 27 likely to be offset by the benefits of early identification of gestational diabetes. It is

- 1 current practice to offer people with a pre-pregnancy BMI in the obesity weight
- 2 category testing for gestational diabetes.
- 3 Return to recommendations
- 4 Gestational diabetes
- 5 Recommendations 1.2.16 and 1.2.17
- 6 Why the committee made the recommendations
- 7 Dietary change is the first-line intervention for gestational diabetes. However, the
- 8 evidence did not show any particular diet to be better than another for outcomes
- 9 such as weight change during pregnancy, gestational hypertension, mode of birth,
- 10 baby being born large-for-gestational age and the need for pharmacological
- 11 interventions. The committee agreed that a healthy diet that is appropriate and
- 12 preferable for the individual should be discussed. They also made a research
- recommendation to determine what type of diet is most beneficial for those with
- 14 gestational diabetes.
- 15 How the recommendations might affect practice
- 16 The recommendations reflect current practice.
- 17 Return to recommendations
- 18 Continuing breastfeeding beyond 8 weeks after birth
- 19 Recommendations 1.3.1 to 1.3.6
- 20 Why the committee made the recommendations
- 21 The UK Scientific Advisory Committee on Nutrition (SACN), UNICEF and the World
- 22 Health Organization recommend 6 months of exclusive breastfeeding, and
- continuing breastfeeding until the child is at least 2 years. The committee agreed that
- 24 appropriate support before birth and during the first weeks after birth will enable
- continued breastfeeding for longer. There are various reasons why people may
- 26 consider stopping breastfeeding or starting supplementing with formula. Every face-
- to-face health contact is an opportunity to support continued breastfeeding, and the

- 1 committee agreed to list different discussion points that can help with this, based on
- 2 qualitative evidence and their knowledge and experience.
- 3 Qualitative evidence showed that in order to maintain breastfeeding, it is important to
- 4 build the confidence and motivation to breastfeed. The evidence also highlighted the
- 5 important impact that partners, family members and friends have in either
- 6 discouraging or supporting breastfeeding. The positive impact that peers can have
- 7 was also evident. The evidence also highlighted that breastfeeding is sometimes
- 8 experienced as embarrassing or not socially acceptable. Evidence showed that
- 9 receiving inconsistent or conflicting information about breastfeeding, often in a
- 10 rushed encounter with a healthcare professional, contributes to the challenges in
- 11 continuing breastfeeding. Sometimes people felt that discussions on breastfeeding
- were judgemental or intrusive, rather than supportive.
- 13 The committee agreed that face-to-face contacts with a healthcare professional after
- the baby is 8 weeks old are usually infrequent, so opportunities to provide support
- 15 and advice are considered beneficial.
- 16 There was evidence from an analysis of randomised controlled trials that group
- 17 interventions aimed at promoting breastfeeding are effective in increasing
- breastfeeding rates. Economic analysis showed that group interventions delivered by
- 19 a mixture of healthcare professionals and peer supporters in addition to standard
- 20 care provides additional benefits and reduced costs compared with standard care
- 21 alone, making additional group interventions highly cost effective.

### How the recommendations might affect practice

- 23 Support for breastfeeding exists but is not consistently available in primary care and
- 24 community services. There may be some costs associated with improving
- 25 breastfeeding support services through enhancing face-to-face discussions, virtual or
- remote contacts, and drop-in group sessions. However, improving breastfeeding
- 27 rates could bring cost savings to the healthcare system as a whole because
- 28 breastfeeding is associated with the prevention of breast and ovarian cancer,
- 29 diabetes and obesity in breastfeeding people, as well as prevention of infections and
- 30 obesity in babies.

22

1 Return to recommendations

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2	Continuing	breastfeeding	g after returning	g to wor	k or stud <sub>e</sub>	y
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3 Recommendations 1.3.7 to 1.3.10

Why the committee r	made the	recommendations
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- 5 The recommendations are based on qualitative evidence and the committee's
- 6 expertise. The committee agreed that healthcare professionals and breastfeeding
- 7 peer supporters can play an important role in supporting people to continue
- 8 breastfeeding after returning to work or study. They can discuss the different topics
- 9 that the person may need to think about, and encourage them to talk to their
- 10 employer or education provider before their return. The committee also agreed that
- 11 employers and education providers can facilitate continuation of breastfeeding by
- 12 exploring how their setting, policies and arrangements can better support those
- 13 returning to work after having a baby.
- 14 The evidence identified various barriers to continue breastfeeding. It showed that
- people worry that breastfeeding at work is perceived as unprofessional and feel
- 16 embarrassed, isolated or judged when trying to maintain breastfeeding while working
- or studying. Many reported that they did not know about a policy on breastfeeding in
- their workplace or university, or what facilities were available for them to use. Even if
- 19 a breastfeeding policy was in place, implementation tended to vary from office to
- office and in practice, often depended on supervisors' and colleagues' attitudes
- 21 towards breastfeeding. The evidence also reported that some women experience
- 22 difficulties accessing breastfeeding spaces, even if they were available. Sometimes
- the breastfeeding spaces were considered to be unclean and unsuitable, lacking
- 24 privacy or lacking important features such as power plugs, a sink or fridge to store
- 25 breast milk safely.
- 26 The evidence also highlighted issues that could encourage the person to continue
- with breastfeeding after they return to work or study. The evidence emphasised the
- value of raising awareness of breastfeeding in workplaces or universities, having
- 29 clear policies, and the need to assess each person's needs individually. The
- 30 evidence showed that people value proactive and supportive communication and
- 31 conversations that began before their return to work or study. The evidence also

- 1 reported on the benefits of peer support. Having childcare near the workplace or
- 2 campus area is a key factor in maintaining breastfeeding according to the evidence.
- 3 The evidence described how workplaces that show flexibility through, for example,
- 4 flexible hours, flexible breaks, part-time work or working from home arrangements
- 5 can help ease the struggle of maintaining breastfeeding while working.

## 6 How the recommendations might affect practice

- 7 Healthcare professionals and peer supporters may need to spend more time
- 8 discussing how to enable people to continue breastfeeding after returning to work or
- 9 study.

16

- 10 There is great variation in how workplaces and education settings support
- 11 breastfeeding so the recommendations may lead to improved support and greater
- 12 consistency.
- 13 Return to recommendations

## 14 Formula feeding

15 Recommendations 1.3.11 to 1.3.14

- 17 The recommendations are based on qualitative evidence and the committee's
- 18 expertise. The evidence showed that support and advice on safe formula feeding
- 19 from healthcare professionals is often felt to be limited, inconsistent and confusing,
- 20 so people seek information from various other sources that are often inconsistent or
- 21 unreliable. There was evidence that people perceive healthcare professionals to be
- 22 reluctant to discuss formula feeding and people reported feeling judged.
- 23 There was also evidence about the power that the marketing of infant formula brands
- can have on people's choices. The committee discussed that people feel confused
- about the information in formula brand labels and the differences between different
- brands, and can perceive the most expensive brands to be the best quality while
- being hesitant to buy cheaper options. At the same time, the cost of infant milk as a
- 28 barrier for safe formula feeding was reflected in the qualitative evidence. This was
- 29 confirmed by the committee's experience that because of cost, people regularly have

- 1 to dilute infant formula, or give less infant formula than recommended, or substitute
- 2 infant formula with other drinks that are not suitable for babies. These practices can
- 3 lead to adverse outcomes for the babies. In order to better understand parents'
- 4 experiences related to formula feeding within the context of poverty and food
- 5 insecurity, the committee made a <u>research recommendation on the facilitators and</u>
- 6 <u>barriers for safe and appropriate formula feeding</u>.
- 7 The committee discussed the importance of healthcare professionals providing
- 8 independent, non-commercial, evidence-based and consistent advice as well as
- 9 providing information about the Healthy Start scheme and other initiatives that give
- 10 advice and financial support to access infant formula.

## 11 How the recommendations might affect practice

- 12 The recommendations should improve support for safe formula feeding and reinforce
- 13 current best practice.
- 14 Return to recommendations
- 15 Introducing solid foods (complementary feeding) for babies
- 16 between 6 months and 1 year
- 17 Recommendations 1.5.1 to 1.5.8

- 19 Evidence from randomised controlled trials about which interventions improve
- appropriate and timely introduction to solid foods for babies was inconclusive.
- 21 However, providing information to parents (either face-to-face or in a telephone call),
- in addition to leaflets, was shown to have some benefit on the appropriate timing of
- 23 introducing solid foods (at around 6 months).
- 24 The committee agreed that advice about introducing solid foods should start in late
- 25 pregnancy and continue in the first months after the birth. An appointment to discuss
- this in more detail before the baby is 6 months old will allow practical advice and
- 27 support to be given. The committee agreed that the best timing for this would be
- when the baby is around 4 to 5 months. Qualitative evidence showed that group
- 29 sessions help parents understand how to provide variable and nutritional food for the

- 1 baby, how to adapt family meals to be appropriate for the baby, and the differences
- 2 between commercial and homemade foods. Qualitative evidence suggested that
- 3 parents are confused about marketing information in commercial baby foods that
- 4 conflict with feeding guidelines, such as introducing solids before 6 months of age.
- 5 Parents also expressed worry and concern over their baby's feeding. Overall,
- 6 parents found information even from healthcare professionals to sometimes be
- 7 confusing or inconsistent, emphasising the importance of healthcare professionals
- 8 being appropriately trained and knowledgeable about evidence-based best practice,
- 9 which can then be shared with parents.
- 10 The committee agreed, based on their experience, that knowledge and expertise
- around the introduction of solids varies between healthcare professionals. They
- 12 discussed how those with expertise could act as 'champions' to promote and share
- 13 knowledge among other staff about the safe and appropriate introduction of solids,
- which can then be shared with parents.
- 15 Qualitative evidence showed that affordability of healthy foods can be a barrier. The
- 16 committee agreed that healthcare professionals should discuss sources of support to
- 17 access healthy foods.
- 18 The committee agreed that healthcare professionals should continue to check on the
- baby's feeding when there is an opportunity to do so, and that they should reinforce
- and remind parents about the advice given so that appropriate and safe feeding
- 21 practices are followed.

### How the recommendations might affect practice

- 23 The recommendations will largely reinforce current best practice. However, not all
- 24 areas offer a session to discuss introduction of solids at 4 to 5 months, so there may
- be some resource implications in these areas. Commissioners and service providers
- in some areas may need to improve training for healthcare professionals about
- 27 introducing solid foods to babies, in line with the recommendations and government
- 28 advice.

22

29 Return to recommendations

## 1 Healthy eating and drinking for children from 1 to 5 years

2 Recommendations 1.5.9 to 1.5.13

3 Why th	e committee	made the	recommendations
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- 4 Qualitative evidence among parents of young children highlighted the importance of
- 5 sensitively considering the family's individual circumstances and needs when
- 6 discussing healthy eating. The evidence highlighted the barriers that people face in
- 7 providing their children with healthy foods. People from low income or disadvantaged
- 8 backgrounds face particular barriers if they cannot afford food or have living
- 9 conditions that prevent them from preparing healthy meals.
- 10 Evidence from randomised controlled trials on what type of interventions might
- 11 improve healthy eating in children was inconclusive. There was some evidence that
- 12 providing information about children's healthy eating for parents from low income or
- 13 disadvantaged backgrounds had some beneficial impact on healthy eating
- behaviours and parents' confidence. There was also some evidence that providing
- information about healthy eating combined with offering children healthy foods
- improved their vegetable and fruit intake. This was supported by qualitative evidence
- on parents' views and experiences. Qualitative evidence also showed that parents'
- 18 lack of skills or confidence in preparing healthy meals prevents them from offering
- 19 such foods to their children.
- 20 The committee agreed that healthy eating in children can be improved in various
- 21 ways, including providing information through individualised discussions with families
- 22 supplemented by printed or online resources, improving access to healthy food
- through, for example, welfare schemes, and building parents' skills and confidence
- 24 through, for example, group cooking sessions.
- 25 The committees discussed the topics to discuss with families in line with government
- 26 guidance, including providing information about financial or practical support in
- 27 accessing healthy foods.
- 28 Quantitative and qualitative evidence also touched on the role of early years settings.
- 29 Based on the evidence and their expertise, committee recommended ways in which
- these settings can promote healthy eating and drinking in children.

## 1 How the recommendations might affect practice

- 2 The recommendations reinforce current best practice. In some areas, the
- 3 recommendations may have small resource implications relating to the additional
- 4 healthcare professional time needed to discuss healthy eating and drinking for
- 5 children, particularly with families from low income or disadvantaged backgrounds.
- 6 Return to recommendations

## Context

7

- 8 The aim of this guidance is to improve nutrition during pregnancy and in babies and
- 9 children under 5. The recommendations focus on supporting best practice on how to
- 10 improve uptake of existing advice on nutrition in pregnancy and in early childhood.
- 11 Nutritional status, weight and health behaviours during pregnancy can have a
- 12 significant impact on the short- and long-term health of the pregnant person and the
- 13 growth and development of the baby, which in turn can have effects on the long-term
- 14 health of the child. Among other things, social determinants of health, including
- poverty and food insecurity play a role in this. According to the <u>National Maternal and</u>
- 16 Perinatal Audit (NMPA), more than half (54%) of pregnant people in England in
- 17 2018–19 had a body mass index (BMI) outside the healthy weight category (18.5 to
- 18 24.9 kg/m<sup>2</sup>) at the booking appointment. The data shows that those living in the most
- deprived areas are more likely to have a BMI that is within the underweight or
- 20 obesity weight categories.
- 21 It is estimated that up to 45% of pregnancies in the UK are unplanned or associated
- 22 with feelings of ambivalence, which can have an impact on poor preconception
- 23 health, including low uptake of preconception folic acid supplements. Less than a
- third of people take folic acid before pregnancy, with the lowest uptake observed
- among people living in the most deprived areas. This guideline includes
- 26 recommendations on improving uptake of folic acid and other vitamin
- 27 supplementation around pregnancy as well as guidance around healthy eating,
- 28 physical activity and weight management during pregnancy.
- 29 The reports by the Scientific Advisory Committee on Nutrition (SACN) on feeding in
- 30 the first year of life and feeding young children aged 1 to 5 years make

- 1 recommendations on many areas of public health nutrition for children, but there are
- 2 still areas of variation regarding implementation and uptake of advice. For example,
- 3 exclusive breastfeeding is recommended for the first 6 months of age, with continued
- 4 breastfeeding alongside solid foods for the first 1–2 years of life. However, according
- 5 to the Office for Health Improvement and Disparities' report on Breastfeeding at 6 to
- 6 8 weeks, in 2020–21 in England, the rate of exclusive breastfeeding at 6 to 8 weeks
- 7 was only 36.5%, and the rate of partial breastfeeding was 17.7%. Over time,
- 8 breastfeeding rates drop even more. Again, there is a social gradient. It is known that
- 9 lower breastfeeding rates are associated with lower socioeconomic status. The NICE
- 10 guideline on postnatal care includes recommendations on baby feeding that cover
- 11 the antenatal period as well as the first 8 weeks after the birth. This guideline follows
- on by providing guidance on support for babies' feeding beyond the first 8 weeks
- 13 after birth. This guideline also covers recommendations on vitamin supplements for
- 14 children, introducing solid foods, and healthy eating in children up to 5 years of age.

# 15 Finding more information and committee details

- 16 To find NICE guidance on related topics, including guidance in development, see the
- 17 NICE topic pages on fertility, pregnancy and childbirth and diet, nutrition and obesity.
- 18 For details of the guideline committee, see the committee member list.

# 19 Update information

- 20 **November 2024**
- 21 We are updating and replacing the NICE guideline on maternal and child
- 22 nutrition (PH11)
- 23 This guideline will update and replace the NICE guideline on maternal and child
- 24 nutrition (PH11, published March 2008 and updated in 2011). We have reviewed the
- evidence, and new recommendations are marked [2024].
- We are retaining recommendation 17 on weighing babies and young children
- 27 from the NICE guideline on maternal and child nutrition (PH11)

- 1 We are retaining recommendation 17 on weighing babies and young children from
- 2 PH11. We have not reviewed the evidence or updated the wording apart from minor
- 3 editorial and formatting changes for clarification. The wording from PH11
- 4 recommendation 17 appears in this update in the section on weighing babies and
- 5 young children (recommendations 1.4.1 to 1.4.5) and is marked [2008] or [2011].
- 6 We are not accepting consultation comments on this retained wording.
- 7 The updated guideline will replace PH11. See the previous NICE guideline (PH11)
- 8 and supporting documents.
- 9 We are updating the recommendations on weight management during
- 10 pregnancy from the NICE guideline on weight management before, during and
- 11 after pregnancy (PH27)
- 12 This guideline will also update and replace the recommendations on weight
- management during pregnancy from the NICE guideline on weight management
- before, during and after pregnancy (PH27, published July 2010). We have reviewed
- the evidence, and new recommendations are marked [2024]. All the other
- 16 recommendations in PH27 are being updated or amalgamated into the updated
- 17 NICE overweight and obesity management guideline (NGXXX; TO BE UPDATED AT
- 18 **PUBLICATION**).
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