



Gestational diabetes

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What is gestational diabetes?

Gestational diabetes is diabetes which develops during pregnancy. It occurs when the hormones produced by the placenta reduces the effectiveness of insulin which results in elevated or increased blood glucose (sugar) levels. Insulin is a hormone important for blood glucose control. Insulin acts as a key to open your body's cell doors to allow glucose to enter and be used for energy. In pregnancy because the insulin is not as effective this will result in the blood glucose level rising because it cannot enter the cells.

Having raised blood glucose levels can cause your baby to grow too big (macrosomia) due to them receiving too much glucose and storing it as fat. High blood glucose levels can also raise the risk of stillbirth particularly in those big or macrosomic babies. Good blood glucose control throughout pregnancy will reduce the risk of macrosomia, trauma during birth (for mother and baby), caesarean section, neonatal hypoglycaemia (low blood glucose) and perinatal death.

How is this treated?

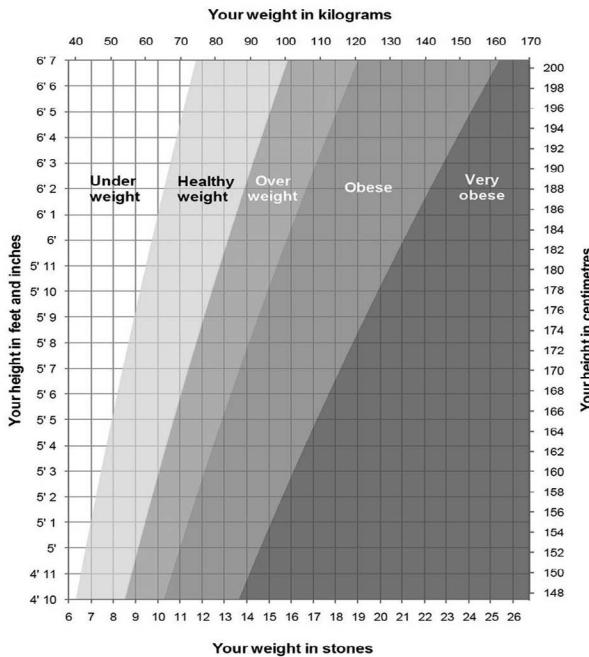
A healthy diet and lifestyle can help to control your blood glucose levels, however some people may require medication i.e. tablets and/or insulin.

Gestational diabetes will usually go away after pregnancy however it does mean you have an increased risk of developing it in a future pregnancy or going on to develop Type 2 Diabetes. Therefore it is important to keep following a healthy diet and active lifestyle after pregnancy too and aim to be a healthy weight for your height.

A healthy BMI is between 18.5-25kg/m² for Caucasians and between 18.5-23kg/m² for people of South Asian, Chinese, Black Caribbean/African, and Eastern European ethnicity.

Healthy weight gain during pregnancy

A healthy weight gain is usually between 10kg and 12.5kg, pre-pregnancy BMI is used as a guide. Most weight gain is usually after week 20, an additional 200kcal per day is all that is required in the third trimester to meet the needs of your growing baby. 200kcal is not a lot, it could be an extra glass of milk and piece of fruit per day.



Body mass index pre-pregnancy	Healthy total weight gain during pregnancy
< 18.5kg/m ² Under weight	12.7kg–18.1kg 2 stone– 2 stone 12 lb
18.5kg/m ² - 25kg/m ² Healthy weight	11.3kg–15.9kg 1 stone 11 lb– 2 stone 7 lb
25kg/m ² - 30kg/m ² Overweight	6.8kg–11.3kg 1 stone 1 lb– 1 stone 11 lb
>30kg/m ² Obese	5kg–9kg 11 lb– 1 stone 6 lb

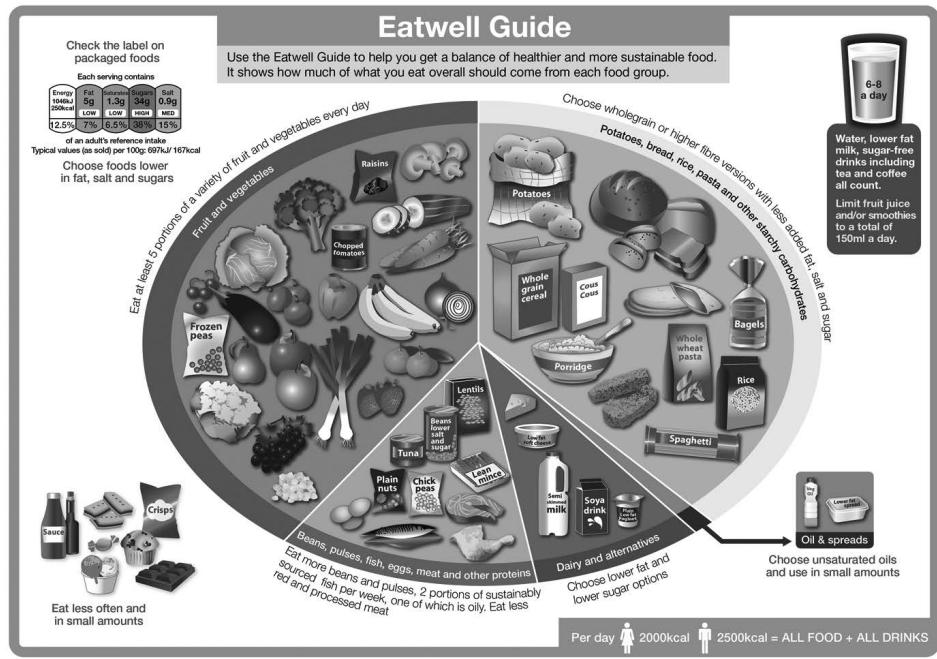
Healthy diet and lifestyle is key to managing gestational diabetes

Here is a summary of the main points:

- Aim for regular meals, snacks and avoiding long gaps
- Balance out carbohydrates within meals with vegetables, salad, protein and healthy fats
- Choose nutritious lower Glycaemic Index foods (low GI), for example whole grain starchy foods, pulses, fruit and vegetables
- Limit highly processed carbohydrates such as white breads, ready meals and refined cereals
- Reduce intake of high added sugar foods and drinks
- Choose reduced fat options
- Try not to add salt to food or cooking
- Avoid diabetic foods, the law has changed such that manufacturers can no longer label food as suitable for diabetics. They do not have any special health advantage and can still affect blood glucose levels
- Increase physical activity especially after meals
- Aim to reach a healthy weight after your pregnancy

Am I eating the right balance of foods?

We recommend eating a healthy balanced diet which has well controlled portion sizes and regular spaced meals.



Source: Public Health England in association with the Welsh government, Food Standards Scotland and the Food Standards Agency in Northern Ireland

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Carbohydrate foods break down into glucose directly affecting blood glucose levels. Carbohydrates fall into three main categories, starchy natural sugars and refined sugars often in processed foods.

Starchy	Natural sugars	Refined sugar
Bread, Chapatti	Fruit	Table sugar all types
Potato, cassava	Milk	Syrups
Rice	Yoghurt	Cakes
Pasta	Some sweet veg	Biscuits
Noodles	Peas, Sweetcorn	Ice-cream
Breakfast cereal		Sweets
Crisp breads		Burfi, Jalebi and
Yam, Plantain		Gulab jamun
Pulses, lentils		

Food Group	Helpful Tips
Starchy Carbohydrates such as bread, chapatti, rice, potatoes, pasta 5–14 portions per day	<p>Stick to a quarter of your plate being carbohydrate</p> <p>Opt for higher fibre whole grain options, limit refined options</p> <p>Increase fluid intake if consuming more fibre</p>
Fruit and vegetables 5–9 portions per day	<p>Aim for a variety of fruits and vegetables</p> <p>Keep skins on fruit but wash well</p> <p>Limit fruit juice to 150ml glass per day</p>
Meat, fish, eggs, beans 2–3 portions per day	<p>Beans, pulses and lentils release energy slowly and are high in fibre</p> <p>Choose lean cuts of meat and trim off skin and visible fat</p>
Milk and dairy foods 2–3 portions per day	<p>Choose 'diet'/'light' yogurts or plain low fat yoghurts</p> <p>Swap whole fat milk (blue) to semi or skimmed (green or red)</p> <p>1/2 fat or reduced fat cheese</p>
Food and drinks high in fat and/or sugar 0–4 portions per day	<p>Use diet or sugar free fizzy drinks and squashes</p> <p>Use rapeseed or olive oil in cooking- limit animal fats in cooking such as butter and ghee</p> <p>Avoid use of any type of table sugar</p> <p>Opt for plain sweet foods such as scones, teacakes, rich tea biscuits in small amounts only occasionally</p>

How much is a portion?

Starchy carbohydrates

One portion provides around 15g to 20g of carbohydrates and about 80 calories, for example;

- Two egg sized boiled potatoes (weigh 65g each)
- Two tablespoons of cooked rice or pasta (weigh 30g each)
- 80g plantain boiled (approx. 1/3 of one small)
- One Weetabix or one tbsp. muesli, or two tbsps. cereal (weigh 15g)
- One medium slice of bread, 1/2 small chapatti or one small pitta
- Six chips or 1/2 baked sweet potato
- Two crackers or one rye crisp bread
- 1/2 scone or 1/2 slice malt loaf

Small meals – Aim for one to two carbohydrate portions, e.g. four tbsps of cereal (30g) or one to two slices of bread

Main meals often provide two to three carbohydrate portions – aim to keep portion a fist sized covering 1/4 dinner plate only for example:

- Four to five tablespoons rice or pasta
- Four egg sized new potatoes or one small sweet potato
- One small chapatti or two small pitta
- Two tablespoons of Jollof rice and 80g of boiled plantain

Fruit and vegetables

A portion is around 80g or one medium fruit. For example;

- One medium apple, pear or banana
- Two satsuma's or plums
- Twelve grapes or seven strawberries
- Hand full of small berries
- Three tablespoons of tinned fruit in juice

- 150ml of pure fruit juice
- One tablespoon of dried fruit or two to three dried dates or apricots
- Three heaped tbsps cooked vegetables or a medium bowl of salad
- Two tomatoes or a handful of cherry tomatoes
- 1–2 thin slices of pineapple or melon

Meat, fish, eggs, beans, pulses, nuts

- A portion is 85g (deck of cards portion) of meat
- 120–140g fish ideally without batter or bread crumbs
- Two boiled eggs
- Three tablespoons of beans, lentils, dhal
- 200g of hummus
- Two tablespoons plain nuts or nut butter

Milk and dairy

- 30g (1oz) match box size of cheese
- 200ml of milk
- 125g pot of yoghurt

Fats

Two teaspoons of oil or 10g spreadable margarine/butter.

Glycaemic index

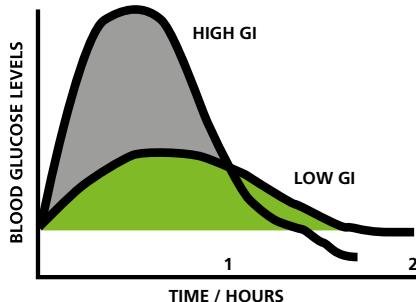
Low sugar and low glycaemic index (GI) foods are advised. A food with a high GI raises blood glucose quickly whereas a food with a low GI raises blood glucose more slowly. Following a low GI diet can help with controlling blood glucose levels.

Note – consuming large portions of low GI foods can still raise blood glucose levels.

High GI foods

- Cereals – Cornflakes, Rice Krispies, most sugar coated cereals.
- Breads – White and Wholemeal Bread, Rice cakes, English muffins, Baguettes, White and medium Chapatti
- Potatoes – Jacket potato and Mash potato
- Rice – White rice

Limiting high GI foods will help to control blood glucose levels.



Medium to Low GI foods

- Fruit – most fruit e.g less ripe (fresher) bananas, apples, orange
- All pasta, whole wheat or egg noodles
- Most vegetables
- Bread – granary bread, rye bread
- Chapatti – wholemeal, millet or chick pea flour (Besan)
- Crisp breads – rye, wholegrain

- Potatoes – New potatoes, sweet potatoes, yam
- Rice – brown and basmati rice
- Cereals – Plain porridge oats (not instant), sugar free muesli (with more nuts than fruit), Shredded wheat
- Beans, pulses and legumes such as chick peas, lentils and kidney beans

Try to include one of the above with most meals

Breakfast

A lot of the foods we eat at breakfast time are high in carbohydrate. You need some carbohydrate for energy however too much can result in high blood glucose readings and also weight gain. Try having a smaller breakfast and then if needed a mid-morning snack. See snack ideas on the next page.

Example breakfast ideas:

- One rye bread with no added sugar peanut butter or low fat cheese spread
- Two small granary/ multi grain bread with 1/2 small avocado
- Three seeded crisps breads with scrambled egg
- 30g of special flakes and 200ml milk
- 15 blueberries, 150g plain yoghurt, three tbsps. mix seeds/nuts
- Small bowl porridge (whole rolled oats) with milk, cinnamon
- Scrambled tofu with peppers and tomatoes
- Mushroom and pepper omelette

Meals

Remember to balance your main meals with protein, vegetables and starchy carbohydrate.

Main meal tips

- Try replacing two tablespoons of rice with pulses or extra vegetables such as peppers, okra, carrot or aubergine or mushrooms. Bulk up curries with vegetables.
- Try swapping oil for two to five sprays of a spray olive oil or limit oil to one teaspoon per person
- If eating meat on the bone such as chicken thighs or cooking with fattier meats like goat or mutton try replacing a few pieces with more pulses such as kidney beans. These still have protein but add more fibre and cut the calories from fat
- If you are having a few different carbohydrates, e.g. plantain and rice, remember to have less rice to allow for the carbohydrate in the portion of plantain. Try to boil the plantain, you can then brush it with a little oil and bake or grill rather than fry it
- Use plenty of herbs, spices or ginger for flavour rather than salt

Ideas for healthy snacks between meals

- Soft low fat cheese (not mouldy), fresh onion or chive and one to two whole grain rye crisp breads
- Sugar free jelly made with water or diet lemonade and a handful of berries
- Handful of olives or a few pickles such as gherkins, pickled onions, sundried tomatoes
- One portion of fruit (handful size)
- Boiled egg, spinach and tablespoon pine nuts or seeds

- Palm full of plain unsalted nuts or toasted seed mix (25g)
- One 125g pot of light or diet yoghurt or 0% fat Greek style
- Baked aubergine with spices, spinach and a teaspoon of rapeseed oil
- 1/2 avocado spread over one to two rye crisp breads
- Two tablespoons soy/edamame beans with one to two tablespoons no added sugar peanut butter
- Cucumber/ celery or carrot sticks with two to three tablespoons hummus
- Two tablespoons roasted tinned chick peas in a teaspoon rape-seed oil and spices
- Roasted diced chicken breast with mixed salad, tablespoon soy beans, lemon juice, and coriander
- Well cooked turkey kebab stick with pepper, onion and tomatoes
- Grated courgette and carrot salad with teaspoon olive oil, onion, coriander and lemon juice or a light low sugar dressing
- Glass of low fat unsweetened milk hot or cold
- 25g Edam cheese and one small apple
- A thin Pakora baked on a lightly oiled baking tray

Try to limit snacks between your meals to only when you are feeling hungry. Ideally try not to have any more than one snack between meals to ensure blood glucose levels remain stable. **See Diabetes UK recipes for some more ideas.** Try swapping crisps, biscuits, cakes to some of the healthy snacks above.

Food labelling

Traffic light labels on foods make it easier to choose healthy options. Some supermarkets are using their own labelling systems. What supermarkets class as low, medium and high sugar products are for the general population. Please use this guide below as this is suitable for people with diabetes.

All measures per 100g	LOW A healthier choice	MEDIUM OK most of the time	HIGH Just occasionally
Sugars	5g or less	5.1g – 22.5g	More than 22.5g
Fat	3g or less	3.1g – 17.5g	More than 17.5g
Saturates	1.5g or less	1.6g – 5g	More than 5g
Salt	0.30g or less	0.31g – 1.5g	More than 1.5g

To apply traffic lights to a product, look at the “**per 100g**” information panel on the pack and use this grid to make a healthier choice. Not all foods will fit into a low sugar category, for example even light yoghurts have a natural dairy sugar in them which may make them a medium sugar product. It is still a healthy choice in moderation. It is also a good idea to check the ingredients list to see if sugar, dextrose or syrups have been added as these are likely to be higher sugar products.

Example food label

0% fat Greek Yoghurt- Nutrition

Typical Values

Energy	230KJ (54 Kcal)
Fat	0g
of which saturates	0g
Carbohydrates	3.0g
of which sugars	3.0g
Protein	10.3g
Salt	0.1g
Calcium	120mg
%NRV	15%
*Nutrient Reference Values	-

Typical Values per 100g

3.0g	←
3.0g	→
10.3g	
0.1g	
120mg	
15%	
-	

Of which sugars – This tells us how much of the product is either a natural sugar (fruit or dairy sugars) or added sugar. We have to look at the ingredients list to check which it contains.

Carbohydrate – This tells us how much of the total amount of the product breaks down into sugar, it includes the starchy carbohydrates, natural sugars and added sugars.

Ingredients

Pasteurised Skimmed Milk, Live Active Yoghurt Cultures (*L. Bulgaricus, S. Thermophilus, L. Acidophilus, Bifidus, L. Casei*)

This 0% fat Greek Yoghurt does not have added sugar listed in the ingredients therefore we can assume the sugars are natural dairy sugars. It is only 3g of total carbohydrates, and the sugars are less than 5g per 100g therefor it is a good choice. Remember to eat a portion, e.g. 125g of yoghurt.

Does it matter when I eat?

It is important to eat regularly. Eating your normal meals and snacks spread out evenly throughout the day can help to prevent large swings in blood glucose after meals, example:

	Current diet	Instead have...
Breakfast	Cereal and one slice of toast	One slice of granary toast with boiled eggs and avocado. Have a low carbohydrate mid morning snack
Lunch	Sandwich and fruit	Have a sandwich for lunch and the fruit as a mid afternoon snack
Evening meal	Rice chapatti and curry	Have four tablespoons of basmati rice OR one small hand sized chapatti. Bulk up the curry with vegetables and protein. Try not to have bread and rice together

Do I need to avoid any foods during pregnancy?

General food hygiene is important whilst pregnant

- Make sure hen eggs have the lion stamp, these can now be eaten lightly cooked/runny if preferred due to a low risk of salmonella. If eggs are not British lion stamped, not hen eggs or from outside of the UK please still fully cook until hard as a low risk of salmonella cannot be guaranteed
- Avoid under cooked meats and keep raw and cooked meat separate
- Avoid mouldy soft cheese such as Brie and Camembert and blue vein cheese. Avoid cheese made from unpasteurised milk
- Avoid cod liver oil supplements and high dose multivitamins with vitamin A present
- Avoid liver, pate, haggis and liver based products as they are very high in Vitamin A which are dangerous in pregnancy
- Ensure fruit and vegetables are well washed
- Store foods as recommended and be aware of 'best before' dates

Fish

- No more than two portions (100g) of oily fish per week as it can contain pollutants like dioxins and polychlorinated biphenyls (PCBs). eg; salmon, pilchards, mackerel, sardines, herring
- Avoid eating marlin, shark or swordfish due to the mercury content
- No more than four medium cans of tinned tuna per week as it is a higher mercury containing fish
- Avoid raw shellfish, but cooked is fine. Smoked fish is safe to consume

For more information on food safety during pregnancy please see the web link for NHS.UK at the end of this booklet.

Caffeine

It is best to limit caffeine to a maximum of 200mg per day, e.g.
Two mugs of instant coffee (100mg each) or
One mug of brewed/filter coffee (140mg each) or
Two mugs of tea (75mg each) or Five cans diet cola (50mg each)
Caffeine is often contained in cold and flu remedies – always check with your GP or pharmacist before taking medication.

Can physical activity help?

Being more physically active has many health benefits including helping your blood glucose control, managing body weight and improving mood. Being more active for 30 minutes after your meals will help to reduce blood glucose levels back down.

Aim to build up to 30–60 minutes of moderate physical activity on five days of the week. “Moderate” means breathing more deeply and feeling warmer. Try walking, gardening, housework and swimming. N.B. If you are on diabetic medication, you may need to discuss this with your diabetes team or GP before you increase your physical activity.

See what schemes and facilities are available in your area;

- beactivebirmingham.co.uk
- www.solihullactive.co.uk

Sweeteners and diabetic products?

Artificial sweeteners can be used instead of sugar in foods and drinks in moderation. They can be bought as tablets or a powder. All sweeteners taste different. It is worth trying different ones to find which you prefer, for example, Stevia, Truvia, Canderel. We are currently recommending pregnant women to avoid only saccharin

based sweeteners e.g. Hermesetas or Sweetex. Please check the labels of products that use sweeteners.

Some sugar substitutes are a mixture of sugar and sweetener. Make sure you avoid these as they will raise your blood glucose and they are higher in calories. This includes 'half spoon' sugar.

Diabetic foods do not give any health benefits. They can be high in fat and calories; they can be expensive and can cause diarrhoea. Opt for the no added sugar or reduced sugar options of food and drinks which are available in most shops.

Folic acid

A Folic acid dietary supplement of 400 μ g (micro grams) per day is advised pre-conceptually and for the first 12 weeks of pregnancy, most pregnancy multivitamins include this. If you go on to develop Type 2 diabetes and plan a further pregnancy you will need a prescription for 5mg of folic acid which is recommended pre-conceptually and in the first 12 weeks of pregnancy.

Rich food sources of folate are also important to include in your diet while pregnant. These include; dark green leafy vegetables such as spinach, kale, brussel sprouts, cabbage, broccoli and legumes (e.g. peas, blackeye beans) and green beans, peas and pulses as well as oranges. Some breakfast cereals may be fortified as well as yeast extract, e.g. Marmite.

Vitamin D

A 10 μ g (micro grams) Vitamin D supplement is recommended during pregnancy and during breastfeeding. Your Vitamin D levels will be checked by the midwife and if you have a deficiency, a higher dose will

be prescribed. Vitamin D is made in the body and is dependent on a safe level of sun exposure. Many people are deficient in Vitamin D in the UK. Discuss this with your doctor.

B12

We need vitamin B12 for many reasons. Too little can result in fatigue, anaemia and nerve damage. B12 is found in foods derived from animals. For example red meats, poultry, eggs, fish and dairy products. If you do not eat animal products, the only reliable sources of vitamin B12 are fortified foods and supplements.

Vitamin B12 is added to some dairy alternative milk products, vegan spreads, yeast extracts such as Marmite and some breakfast cereals. Richer sources include meat, fish and eggs.

If your B12 levels are low, your doctor will advise a supplement which may be in tablet or injection form. Some people struggle with absorption and synthesis of B12 and rely on injection supplementation.

Does gestational diabetes go away?

Often gestational diabetes will disappear after the birth of your child. Having diabetes in pregnancy does mean you are seven times more likely to develop Type 2 Diabetes later in life than someone without gestational diabetes. To reduce this risk, follow the healthy eating guidelines recommended long term. You may be able to access the Lighten up service provided in Birmingham to help with managing your weight post pregnancy. Please speak with your GP about this if interested.

If you become pregnant again, you are at risk of developing gestational

diabetes again. It is best to plan your pregnancy and tell your doctor as soon as possible if you think you are pregnant to take the necessary precautions.

Frequently asked questions

Q: I ate a large full English breakfast and noticed my blood glucose remained stable; however, the day I ate bran flakes and fruit my blood glucose rose. Why was this?

A: A full English breakfast tends to be high protein and low carbohydrate therefore not greatly impacting on blood glucose levels, whereas bran flakes and fruit both contain carbohydrate. A point to consider however is that a regular consumption of high fat foods can have other health implications. Try having a smaller breakfast of just boiled eggs on toast or just a whole grain cereal without the extra fruit. See breakfast suggestions earlier in the booklet.

Q: I cut out all carbohydrates and my blood glucoses were all within range. Should I continue?

A: No. We do not recommend cutting carbohydrates out of meals to help blood glucose levels. Carbohydrate is important for energy.

Q: I started on insulin; does this mean I can eat whatever I want?

A: We still recommend a healthy balanced diet for people taking insulin. It is important for you and your babies health.

Insulin injections and diet

If your diabetes midwife or doctor has started you on insulin injections the following points are important to consider:

- Try not to miss meals, aim for three regular meals a day and a small snack between if needed.
- If you take a mealtime insulin such as Humalog or Novo rapid insulin remember this works with the carbohydrate part of your meal. If you do not eat a carbohydrate (e.g. bread/rice/pasta/fruit), or you miss a meal you also miss the meal injection.
- If your blood glucose drops below 4mmol/l you should treat this with some quick absorbed glucose, for example 170ml-220ml Lucozade or four jelly babies. Re-check your blood glucose 15 minutes later to ensure your levels are 4mmol/l or above then eat something with carbohydrate (e.g. piece of fruit or sandwich or meal).
- Different meal sizes of carbohydrate may require different amounts of rapid insulin, sometimes it is easier to aim for similar portion sizes on a day to day basis or be given different amounts of insulin to take with different sized meals. Ask to see a dietitian in clinic to help advise you on this.

Further information

Diabetes UK website: [www.diabetes.org.uk/Diabetes-the-basics/
Gestational-diabetes/](http://www.diabetes.org.uk/Diabetes-the-basics/Gestational-diabetes/)

NHS UK: www.nhs.uk/conditions/pregnancy-and-baby/pages/foods-to-avoid-pregnant.aspx#close

References

- NICE guidance on: Diabetes in pregnancy: management from preconception to the postnatal period
www.nice.org.uk/guidance/ng3/chapter/1-
- Recommendations#antenatal-care-for-women-with-diabetes-2
- www.nice.org.uk/guidance/ph27/chapter/1-
Recommendations#recommendation-2-pregnant-women
- www.acog.org/Clinical-Guidance-and-Publications/Committee-Opinions/
- Committee-on-Obstetric-Practice/Weight-Gain-During-Pregnancy
- Diabetes UK 2018 Nutrition working group Evidence based nutrition guidelines for the prevention and management of diabetes March 2018
- NHS – Healthy Weight: www.nhs.uk/live-well/healthy-weight/height-weightchart/

This information has been made for Heartlands Hospital, Solihull Hospital and Good Hope Hospitals, a part of the University Hospitals Birmingham NHS Foundation Trust.

Contact the diabetes dietitians or nutrition and dietetic services on 0121 424 3146.

My Diet and exercise plan

	Monday	Tuesday	
Breakfast	One piece of granary seeded bread with two slices of avocado and a boiled egg	150g of Greek yoghurt with 2 tablespoons of no added sugar muesli, 25g of plain mixed nuts and seeds and a hand full of raspberries	
Lunch	Tuna chunks with mixed bean salad/lentils, lettuce, cucumber and olives	Lentil dhal (made with 40g dried chana dhal) with fresh salad and coriander	
Evening meal	Four heaped tablespoons of brown basmati rice/ mixed rice and peas with baked chicken in herbs/ spices, broccoli, peas and cauliflower	Wholemeal chappati (60g weight) with fresh mixed salad and a reduced oil chicken curry with added vegetables e.g mushrooms, green beans and cauliflower	
Snacks	<ul style="list-style-type: none"> • Hand full of berries in 120g plain Greek Yoghurt • 25g plain mixed nuts • One orange • 200ml semi-skimmed milk 	<ul style="list-style-type: none"> • 5g edam cheese and a small apple • 100g hummus with carrot and cucumber sticks • 150g watermelon 	
Exercise	Walked 30 minutes after breakfast pushing pram	<ul style="list-style-type: none"> • 15 minute brisk walk after breakfast • 15 minute brisk walk after evening meal 	

Wednesday	Thursday

Breakfast	Friday	

Saturday	Sunday

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Bordesley Green East
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Solihull Hospital
Lode Lane
West Midland
B9 2JL
Tel : 0121 424 5127

Good Hope Hospital
Rectory Road
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