## ACHIEVING WEIGHT LOSS AND THE LOW CARBOHYDRATE DIET

In many parts of the world the majority of people are now overweight or obese. Until now the advice for weight loss has been to 'eat less and move more'. Unfortunately this has not led to successful and sustained weight loss for many people. With so many people now struggling with being overweight it is time to take a fresh look at weight management. This leaflet will explain how a low carbohydrate approach can help. The low carbohydrate diet is a lifestyle that many people are finding enjoyable and achieving short and long term weight loss success.

In brief, a low carbohydrate diet helps to switch the body into fat burning mode, allowing weight to be lost without having to fight hunger.

#### HOW DOES THE BODY GAIN OR LOSE FAT?

To gain fat the body must store more fat than it burns, and to lose fat the body must use up more fat than it stores. This is an obvious statement, but it is useful starting point to then move on to understand how this happens in a bit more detail.

#### What controls fat burning and storage?

There are many things that control how much fat the body stores or burns. These include:

- the food that is eaten (type of food, how much, how often)
- hormone levels which can be affected by things such as food, sleep, and stress
- the amount of energy the body is using (to heat the body, for movement, for living)

Of these factors adjusting the food we eat often has the greatest impact on how much body fat we store, and fortunately this is also the area we have the most control over.

To understand how food can increase the amount of fat the body stores or burns we need to look at the fuels the body can use for energy.

#### What fuels does the body use for energy?

The two main fuels the body uses are fat and sugar (the sugar in the body is called glucose).

At any moment in time the body will always be burning some fat and some glucose for energy. However, the amount of fat and the amount of glucose the body decides to burn can change depending on what we eat. There is a limit to how much energy the body needs, so if it increases the amount of glucose it is burning it will simultaneously decrease the amount of fat being burnt.

## How does sugar (glucose) affect the amount of fat the body uses for energy?

This next point is really important. The body cannot store very much glucose, so whenever there is too much glucose in the blood the body will switch out of fat burning mode so that it can increase glucose burning. By doing this it allows the blood glucose level to return to normal. In the same way, if there is less glucose to use for energy the body will use more fat instead.

## How does the body switch between fat burning and sugar burning?

The human body is complex with lots of control mechanisms that influence fat burning and fat storage. However there is one really important switch controlled by a hormone called insulin. (Hormones are messengers that tell parts of the body what to do). The hormone insulin has many actions including pushing glucose from the blood into the body's cells; this includes into the abdominal fat cells and liver cells where the excess glucose can be turned into a type of fat called triglyceride. So, a higher level of insulin increases sugar burning, whilst also reducing fat burning and increasing fat storage.

In all of our blood (approximately 5 litres, or 8 pints, in an average adult) there is only about 1 teaspoon of glucose, so it doesn't take much glucose in our food to raise the blood sugar level. When the blood glucose level rises the insulin level rises, and fat burning is switched off.

Basically, insulin tells the body to store fat and not to burn fat.

#### THE LOW CARBOHYDRATE DIET, WHY DOES IT WORKS FOR WEIGHT LOSS?

When we talk about carbohydrate in food we are referring to sugar and starch. Foods such as pasta, rice, bread and potatoes are known as starchy carbohydrates.

#### **EXAMPLES OF STARCHY CARBOHYDRATES**



Starch is simply a long chain of glucose. When we eat foods containing starch it is digested and broken back down into glucose.

The glucose then moves from our gut into our blood, raising the blood sugar level. This rise in blood sugar level causes a rise in insulin, which leads to the body switching out of fat burning mode and into fat storage mode.

So, when thinking of starch we can think of it simply as glucose, the sugar that is in our blood.

#### What should be expected on a low carbohydrate diet?

If someone has been eating a lot of carbohydrate, i.e. sugar and starch, it takes a bit of time to adjust to a low carbohydrate diet. It takes about 1-2 weeks for the body to make the important initial adjustments. In this time people often describe having less energy. However once the body has adjusted energy levels return to normal.

#### What about hunger, and how much food to eat?

Whilst eating a higher carbohydrate diet many people report feeling constantly hungry. This is in part thought to be due to the carbohydrate raising the blood sugar level, causing higher insulin, which blocks the access to energy from the body's fat stores. For many people a low carbohydrate diet, with the lower insulin level and the easier access to body fat for energy, provides freedom from constant hunger. This freedom from hunger comes as a very welcome change to people. People commonly state "I can't believe I'm no longer hungry all the time." Not only does a low carbohydrate diet help the body to be better at fat burning, it also means people will naturally eat less because of reduced hunger.

For many people this reduced drive to eat can also mean calorie counting is no longer important. It should be noted that the drop in hunger doesn't happen to everyone, and some people eat for other reasons than being hungry. If this is the case, and someone is not losing weight, it can be useful to review how much food is being eaten and decide whether or not to consciously reduce the amount of food being eaten.

## How can the body be instructed to either burn body fat, or fat from food?

As mentioned above, when on a low carbohydrate diet the body becomes better at fat burning. The fat the body can use for fuel can come from the body's fat stores, or directly from fat in food.

An important point to note is that the body will tend to use incoming fat from food before using fat from body stores.

So, if someone is wishing to lose weight they need to ensure the majority of fat their body is using for fuel is coming from their body's fat stores. Some people on a low carbohydrate diet find that this happens naturally as they are less hungry. However other people may find they are not losing weight as expected. These people, although they will be in fat burning mode, may also be eating too much fat, and this typically happens when people are adding lots of extra fat to their food.

Eating too much fat can result in their body using the incoming fat from food for fuel rather than using the body's fat stores. If this is the case reducing the amount of fat that is being eaten, whilst also keeping carbohydrate intake low, will often help overcome the weight loss problem. (To keep it simple you may find the resource 'What to eat on a low carb diet' helpful).

#### **HELPFUL NOTE:** -

Some people who have spent years following a low fat diet can sometimes see the low carbohydrate diet as an opportunity to indulge in higher fat foods, such as cheese, that they have been avoiding for years. Although it is absolutely fine to eat higher fat foods when following a low carbohydrate diet, a stall in weight loss should trigger a reassessment of how much fat is being eaten.

Reducing the amount of higher fat foods, and particularly not adding extra fat to meals, can help the body to burn more fat from fat stores. Then when target weight is reached the amount of fat in the diet can be increased (some people enjoy some fattier foods such as cheese, cream or dark chocolate).

## Summary and making a choice to follow a low carbohydrate diet

Opting for a low carbohydrate diet means choosing to reduce dietary carbohydrates (sugar and starchy foods like cereals, potatoes and bread) to less than 130g a day. There are some relatively simple food choices that can help people adjust to this lifestyle (see separate resource 'What to eat on a low carb diet').

Personal needs and preferences can determine how low to go on a low carbohydrate diet. Some people may find eating up to 130g of carbohydrate a day works for them. Other people may need or wish to reduce their carbohydrate intake to a lower level, down to 50g a day or sometimes less.

With any diet it is important for it to be achievable, sustainable and ideally enjoyable. It also needs to be appropriate for a person's specific health needs as well as their culture and finances.

All lifestyle change can be difficult at first until new habits are learnt. For all sorts of reasons a change in diet can sometimes be one of the trickiest lifestyle changes to make. Choosing the right time and getting the right support can help this process. Equally if the diet does not work for an individual, for any reason, that's okay, we are all different.

Reassuringly, for many people, adopting a low carbohydrate diet can be an enjoyable and sustainable choice.

#### **FURTHER RESOURCES**

In combination with this information leaflet the following further resources are available by registering at www.lowcarbprogram.com, or by downloading the app:

- What to eat on a low carb diet
- Common side effects with a low carb diet

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## WHAT TO EAT ON A LOW CARB DIET MADE SIMPLE:

LOW CARB PROGRAM

A PRACTICAL GUIDE AND FOOD LISTS



#### This leaflet contains basic guidance and food lists designed to help make your food choices and food shopping easy.

A healthy low carb diet means eating natural, whole, unprocessed, foods. When on a low carb diet you may find you are less hungry at times, if this is the case then you can trust your instincts and eat when you are hungry.

#### A Basic Guide to Carbohydrate, Fat and Protein

Energy in our food comes from carbohydrate, fat and protein. These are known as macronutrients. A low carb diet is low in carbohydrate, has a higher amount of fat, and a normal amount of protein.

- Carbohydrate: A low carb diet means eating less than 130g of carbohydrate per day. Some people like to keep a track of the number of grams of carbohydrate they are eating. Other people prefer to simply focus on eating low carbohydrate foods (see the green list in this leaflet).
- Fat: On a low carb diet you can enjoy healthy natural fats, which includes oils, in your diet. This means it is fine to eat foods that naturally contain fat. Often it is fine to trust your appetite to decide whether to eat more or less fat. For energy the body can use fat that is eaten and also fat from our body stores. You can increase and decrease the amount of fat you eat depending on whether or not you want to lose weight. If you do not want to lose weight then eating plenty of fat will mean your body will not need to use its own fat stores.
- Protein: Simply eat a normal amount of protein foods. If you like to track your protein intake then aim for between 0.8g and 2g of protein per kilogram of your ideal body weight. For example, if your perfect body weight is 70kg then you should aim for between 60g and 140g of protein a day.

#### What to eat; the basics

- Avoid processed food
- Avoid sugar and refined carbohydrates such as biscuits, cakes, and bread
- Enjoy non-starchy vegetables (this includes green vegetables and most vegetables that grow above ground). A moderate intake of root vegetables is fine
- Enjoy fish/meat/dairy/eggs/nuts (legumes/pulses are good options for vegetarians and vegans)
- Enjoy healthy fats (for example olive oil), and natural fatty foods

#### **Food Lists**

The Food Lists below give lots of examples of actual foods and are divided into 3 groups. Next to each food is the amount of carbohydrate it contains, per 100g.

The **Green** Group you can enjoy and should make up the majority of your diet.

The Amber Group should be enjoyed in moderation.

The **Red** Group should be kept to small amounts or simply avoided.

#### PLEASE NOTE:

- All nutritional information is based on UK food databases.
- Nutritional information for total carbohydrate does not include fibre.
- Nutritional information can vary depending on brand, use of organic produce and seasonal variation. They should therefore should be used as an estimate only.
- Certain foods in the lists have been upgraded or downgraded in category because of characteristics other than their carbohydrate amount. For example, there are some higher carbohydrate foods placed in the green or amber categories due to their nutrient density, healthy fat content, lower glycaemic index (GI) and/or the fact they are natural, whole foods. Certain lower carbohydrate foods have been downgraded in category because they are processed, they are higher GI (e.g. custard), or they are at risk of oxidising (e.g. refined oils).

#### **GREEN FOODS:** THESE SHOULD MAKE UP THE MAJORITY OF YOUR DIET

#### **VEGETABLES**

Baby Spinach
Mushrooms
Celery
Cucumber
Chinese Cabbage
Lettuce
Kale
Spinach
Courgette
Radish
Asparagus
Pak Choi
Aubergine
Celeriac
Green Peppers
Leeks
Leeks Spring Onions
Spring Onions
Spring Onions Green Beans
Spring Onions Green Beans Broccoli
Spring Onions Green Beans Broccoli Shallots
Spring Onions Green Beans Broccoli Shallots Red Cabbage
Spring Onions Green Beans Broccoli Shallots Red Cabbage Brussels Sprouts
Spring Onions Green Beans Broccoli Shallots Red Cabbage Brussels Sprouts Mangetout
Spring Onions Green Beans Broccoli Shallots Red Cabbage Brussels Sprouts Mangetout Green Cabbage
Spring Onions Green Beans Broccoli Shallots Red Cabbage Brussels Sprouts Mangetout Green Cabbage Red Peppers
Spring Onions Green Beans Broccoli Shallots Red Cabbage Brussels Sprouts Mangetout Green Cabbage Red Peppers Cauliflower
Spring Onions Green Beans Broccoli Shallots Red Cabbage Brussels Sprouts Mangetout Green Cabbage Red Peppers Cauliflower Yellow Peppers

#### FRUIT

0.2g/100g

0.3g/100g

0.9g/100g

1.2g/100g

1.4g/100g

1.4g/100g

1.4g/100g

1.6g/100g

1.8g/100g

1.9g/100g 2g/100g

2.2g/100g

2.2g/100g

2.3g/100g

2.6g/100g

2.9g/100g

3g/100g

3.1g/100g

3.2g/100g

3.3g/100g

3.7g/100g

4.1g/100g

4.1g/100g

4.1g/100g

4.3g/100g

4.4g/100g

4.6g/100g

4.8g/100g

4.8g/100g

5g/100g

Olives
Rhubarb
Avocado
Tomatoes
Cranberries
Coconut
Honeydew Melon
Raspberries

#### **MEAT, FISH & EGGS**

Chicken
Beef
Lamb
Pork
Oily Fish e.g. salmon,
mackerel, sardines

Eggs

#### DAIRY

Hard Cheese e.g. cheddar
Cream e.g. double cream
Crème Fraîche
Full Fat Greek Yoghurt
Sour Cream
Soft Cheese
e.g. mascarpone
Whole Milk

#### FATS

**Olive Oil Coconut Oil** Lard Ghee **Butter** 

### Trace/100g 0.8g/100g 1.9g/100g

3g/100g

4g/100g

0g/100g

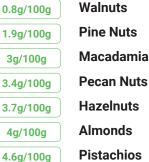
0g/100g

0g/100g

0g/100g

0g/100g

Trace/100g



**NUTS** 

# **Brazil Nuts** Macadamia Nuts

#### **SEEDS**

Sesame Seeds	0.9g/100
Flaxseed	1.6g/100
Chia Seeds	7.3g/100
Pumpkin Seeds	15.2g/100
Sunflower Seeds	18.6g/100

#### 

Tinned Fish, in olive oil e.g. sardines

rbs & Spices dried rosemary

conut Cream ned Tomatoes

**Coconut Milk** 

Water, still or sparkling Breakfast Tea, black Earl Grey Tea, black Herbal Tea, e.g. green tea or peppermint

Coffee, black

## 4.8g/100g 5.8g/100g 6g/100g 6.9g/100g 8.2g/100g

3.1g/100g

3.3g/100g

4g/100g

0.9g/100g
1.6g/100g
7.3g/100g
15.2g/100g
18.6g/100g

0g/100g

1g/tsp

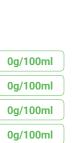
2.9g/100g

3g/100g

3.3g/100ml

וטל	<b>LRO</b>	JARD	11	EMS

#### DRINKS



0g/100ml

0.1g/100g	Her
1.7g/100ml	e.g.
2.4g/100g	Coc
3g/100g	Tin
)	

3.6g/100g 4.3g/100g

0g/100g

0g/100g

0g/100g

Trace/100g

0.6g/100g

4.6g/100ml

#### **AMBER FOODS:** THESE FOODS CAN BE ENJOYED IN MODERATION

#### **VEGETABLES**

Orange Peppers	5.3g/100g
Pimento Peppers	6.4g/100g
Beetroot	7.6g/100g
Carrots	7.7g/100g
Onions	8g/100g
Sweetcorn	8.1g/100g
Butternut Squash	8.3g/100g
Peas	11.3g/100g
Parsnips	12.5g/100g

#### **FRUIT**

Strawberries	6.1g/100g
Grapefruit	6.8g/100g
Watermelon	7.1g/100g
Peach	7.6g/100g
Orange	8.2g/100g
Plum	8.8g/100g
Nectarine	9g/100g
Blueberries	9.1g/100g
Kiwi	9.1g/100g
Figs	9.5g/100g
Pineapple	10.1g/100g
Pear	10.9g/100g
Cherries	11.5g/100g
Apples	11.6g/100g
Pomegranate Seeds	11.8g/100g

#### **PROCESSED MEAT**

Bacon	
Cured meat e.g. Salami	
Corned beef	
Sausages (97% pork)	
Spam	
Processed Ham	
e.g. Bernard Matthews	

#### DRINKS

0g/100g	P
0.05g/100g	e
0.5g/100g	S
	R
1.5g/100g	D
3.2g/100g	e
3.7g/100g	F

#### Pure Spirits 0g/100ml .g. vodka & gin

Sugar Free Fizzy Drinks 0g/100ml

Red Wine e.g. Malbec

#### **Dry White Wine**

.g. New Zealand Sauvignon

**Extra Dry Prosecco** 

1.2g/100ml

0.25g/100ml

0.3g/100ml

#### **NUTS**

**Peanuts** Cashews

Wafer Thin Ham

12.5g/100g
18.1g/100g

#### **CUPBOARD ITEMS**

Mayonnaise	1.3g/100g	
Natural/Whole Nut	11.6g/100g	
Butters e.g. Meridian peanut butter		
Tomato Puree	12.9g/100g	
<b>Tinned Beans</b> e.g. butterbeans	13g/100g	
Tinned Pulses e.g. lentils	16.9g/100g	
Dried Pulses e.g. lentils	48.8g/100g	
<b>Dried Beans</b> e.g. butterbeans	52.9g/100g	
Quinoa, dry	55.7g/100g	

#### **RED FOODS:** THESE ARE FOODS THAT ARE BEST KEPT TO A MINIMUM OR AVOIDED

#### LOW FAT DAIRY

Low Fat Cheese	0.8g/100g
e.g. low fat cheddar	
Semi-skimmed Milk	4.7g/100g
Skimmed Milk	4.8g/100g
Low Fat Yoghurt	7.8g/100g
e.g. Muller Light strawberry	

#### **VEGETABLES**

Potatoes	19.6g/100g
Sweet Potatoes	21.3g/100g
Cassava	36.8g/100g

#### FRUIT

Mango	14.1g/100g
Grapes, green	15.2g/100g
Grapes, red	17g/100g
Banana	20.3g/100g
Dried Fruit e.g. apricot	43.4g/100g

#### **REFINED OILS** (Vegetable/Seed Oils)

Sunflower Oil	0g/100g
Rapeseed Oil	0g/100g
Corn Oil	0g/100g
Soybean Oil	0g/100g
Frylight Spray	0g/100g
e.g. coconut, butter, sunflower,	

olive oil spray

Margarine

#### **STARCHY / PROCESSED FOODS**

#### Custard

- **Rice Pudding**
- Sausages (42% pork) e.g. Richmond

**Breaded Meat & Fish** e.g. breaded cod fillet

Pizza e.g. frozen pepperoni pizza

Ice Cream e.g. Ben & Jerry's cookie dough ice cream

Pancakes

#### Wholemeal Bread

Pastries e.g. croissant White Bread Popcorn e.g. salted popcorn Jam Doughnut Crisps e.g. Walker Crisps White Chocolate

Cakes e.g. victoria sandwich

Milk Chocolate

**Breakfast Bars** e.g. Alpen light bar

Biscuits e.g. digestive

Oats

Crackers e.g. Ritz Cracker

Croutons

1.2g/100g

Noodles, dry weight e.g. egg noodles

Pasta, dry weight

**Breadcrumbs** 

Brown Rice, dry weight

**Rice Cakes** 

Cereal e.g. cornflakes

Fast Food e.g. Big Mac & medium fries

White Rice, dry weight

15g/100g
15.8g/100g
16g/100g
21g/100g
26.7g/100g

30g/100g

33.9g/100g
36.7g/100g
43.8g/100g
46.4g/100g
48.3g/100g
48.4g/100g
51.5g/100g
53.1g/100g
55.1g/100g
57g/100g

59g/100g

75.6g/100g 76.1g/100g 77g/100g 79.2g/100g 84g/100g 85g/100g

85.1g/100g

#### **SAUCES & CONDIMENTS**

Pasta Sauce e.g. bolognese	6.6g/100g
Curry Sauce	7.3g/100g
Nut Butters	14.7g/100g
with added sugar e.g. Sunpat	
Salad Cream	18.5g/100g
Relish	21.1g/100g
Tomato Ketchup	23.2g/100g
Salad Dressing	24g/100g
e.g. balsamic vinegar	
Brown Sauce	28.3g/100g
Barbeque Sauce	32g/100g
Chutney	32.7g/100g
Sweet Chilli Sauce	43.6g/100g
Chocolate Spread	57.6g/100g
Jam	69g/100g
Marmalade	69.5g/100g
Honey	81.5g/100g

#### DRINKS

**Original Cider** e.g. Strongbow

Beer e.g. Budweiser

**Fruit Cider** e.g. Strongbow Dark Fruit

**Fruit Juice** e.g. Tropicana orange juice

Milkshakes e.g. strawberry Yazoo

**Full Sugar Fizzy Drinks** e.g. Coca Cola

Energy Drinks e.g. Red Bull

Cocktails e.g. strawberry daiquiri

Smoothies e.g. Naked green smoothie 8.9g/100ml 9.6g/100ml

10.6g/100ml

11g/100ml

11.2g/100ml

12g/100ml

1.7g/100ml

3g/100ml

4.2g/100ml



## **POSSIBLE SIDE EFFECTS AND SOLUTIONS:**

A leaflet for patients and their healthcare professionals

Any significant change in diet carries the potential to cause side effects, often in the first 1-2 weeks. Everyone's body and situation are different, and many people have no issues when moving to a low carbohydrate diet. However knowing what side effects are possible can be reassuring, as well as knowing what solutions may help. Also knowing what is unexpected can help decide if further assessment is needed. If someone feels unwell or concerned about their symptoms then professional healthcare assessment should be sought. There can be other reasons, unrelated to the new low carbohydrate diet, for the symptoms listed below.

#### FEELING LIGHT HEADED OR DIZZY

This is usually due to low sodium (salt) level in the blood. This can happen because of a drop in the amount of insulin in the blood. When someone is eating a higher carbohydrate diet their insulin level can be higher. One action of insulin is to instruct the kidneys to keep sodium in the blood. The kidneys adapt to whatever the usual insulin level is to ensure the sodium level in the blood remains normal. When someone moves to a low carbohydrate diet there can be a sudden, expected, drop in insulin. It can take the kidneys 1-2 weeks to adapt to the lower insulin level, and until adaptation has occurred there can be excessive sodium and water lost in the urine.

#### **Possible solutions:**

- Have some extra salt on food during the first 1-2 weeks
- Drink adequate water
- Check blood pressure, and review blood pressure medications (particularly those which cause sodium loss from the kidneys)

#### **MUSCLE CRAMPS**

Some people experience muscle cramps, for example in the legs, with a low carbohydrate diet. There are two known possible causes for this. The first could be a low sodium level. The second reason could be a low magnesium level.

There is some evidence that many of the population have a low magnesium level (this is thought to be due to how our food is produced), and also that a low carbohydrate diet may exacerbate this problem.

#### **Possible solutions:**

- Ensure adequate salt and water intake
- Take an over-the-counter standard dose magnesium oral supplement. Some magnesium supplements can cause bowel upset and diarrhoea. Magnesium citrate or magnesium chloride are thought to be better tolerated, and carry less chance of causing bowel side effects.
- A bath with Epsom salts (which is magnesium sulphate) might help, although it is debated how much magnesium is absorbed through the skin.

#### CHANGE IN BOWEL MOVEMENTS (e.g. constipation)

Any dietary change can cause an initial change in bowel habit. This is thought to be at least partly due to the gut, including gut bacteria, requiring time to adapt to the new diet. Constipation is the most commonly reported bowel symptom, though loose stools and diarrhoea for a few days are also possible. The bowels usually adapt to the new diet within a couple of weeks. If constipation is a problem there are a number of options that may help. **Note:** an altering bowel habit that persists for more than 2-3 weeks may not be due to the change in diet, and thus healthcare professional attention should be sought.

Also, a change in diet should not cause problematic abdominal pain.

#### Possible solutions to constipation:

- Ensure adequate water intake
- Magnesium supplementation may help (as described in the 'muscle cramps' section)
- Fibre may help, though this varies. Some people report benefit from increased fibre, whilst others report it can increase constipation. Increased fibre intake can be achieved through a greater consumption of vegetables.

#### **SUGAR CRAVINGS**

Cutting most carbohydrates, particularly sugars, out of the diet can be a big change for both the brain and body. Sugar is thought to affect the brain's reward and mood system. Giving up sugar can create withdrawal symptoms, which for some people can initially be quite challenging. Fortunately many people report these cravings reduce significantly over the first couple of weeks, although it can for some people take months. Tastes will often change with time, and often less sweet foods will become more enjoyable.

#### **Possible solutions:**

- Understanding why the dietary change is important can help to combat cravings.
- Many people find removing all sugar from their diet is the best option. This is because of the addictive nature of sugar, and the difficulty in keeping sugar to just small amounts.
- Some people find sweeteners a helpful transition step off sugar, whilst others find sweeteners cause the sweet taste and sugar cravings to persist.

#### **MEDICATION**

It is important to review prescribed medications with an appropriate healthcare professional before moving to a low carbohydrate diet. Diabetes medications and blood pressure medications are common examples that may need to be reviewed. Some diabetes medications will cause blood glucose to go too low (hypoglycaemia) when carbohydrate in the diet is reduced, and this can be harmful.

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