

Healthy eating for people with chronic kidney disease (CKD)



What is CKD?

Chronic kidney disease (CKD) is a long-term condition where the kidneys do not work well.

It does not usually cause symptoms until later stages. CKD is normally found at earlier stages by blood and urine tests. Your GP can tell you what stage of kidney disease you have.

This information is for people who have **early stage CKD**. If you have late stage CKD you will see a specialist kidney (nephrology) team with a kidney Dietitian. More information about CKD can be found here:

NHS Inform <https://www.nhsinform.scot/illnesses-and-conditions/kidneys-bladder-and-prostate/chronic-kidney-disease>

How does a healthy diet help my kidneys?

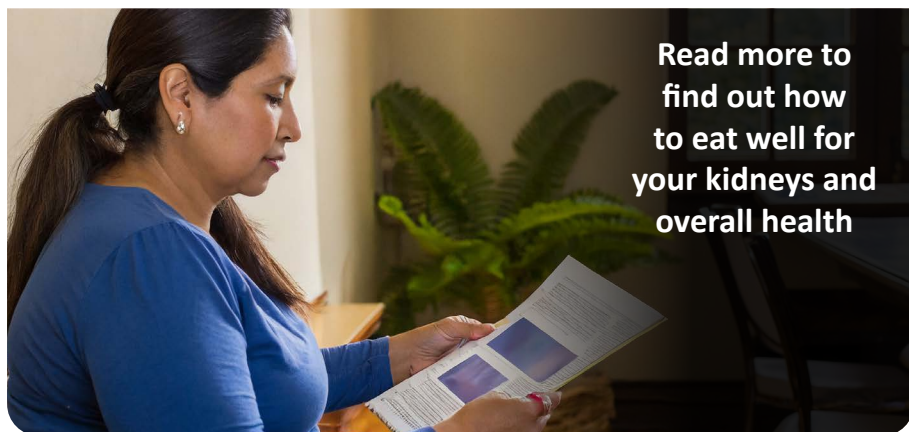
There are no foods or diets that you can eat to help fix or reverse your CKD.

One of the best things you can do to keep you and your kidneys as healthy as possible for as long as possible, is to eat a healthy balanced diet.

This leaflet describes everything about diet which can help slow the progression of your CKD. This may sound like ordinary healthy eating advice, but some aspects become more important if you have early stage CKD.

Our kidneys get rid of waste products from food breakdown. When you have CKD your kidneys are not able to do this well. A healthy diet makes less waste and puts less strain on the kidneys. Healthy eating and a healthy lifestyle are also helpful in managing diabetes, obesity, and high blood pressure. Managing these conditions well, are some of the best ways to help protect the kidney.

The information in this leaflet is suitable if you also have diabetes, obesity or high blood pressure.



**Read more to
find out how
to eat well for
your kidneys and
overall health**

What is a healthy diet?

A healthy diet has a good balance of different foods and nutrients each day to keep you healthy and well.

Healthy eating is not about restricting your intake. It is about choosing a variety of different foods each day, in the amounts you need to keep you well.

The Eatwell Guide helps to explain what a healthy diet looks like. You can find more information about the Eatwell guide here:

[NHS Eatwell Guide](https://www.nhs.uk/live-well/eat-well/food-guidelines-and-food-labels/the-eatwell-guide/)

<https://www.nhs.uk/live-well/eat-well/food-guidelines-and-food-labels/the-eatwell-guide/>

Eatwell Guide

Check the label on packaged foods

Each serving (150g) contains

Energy	Fat	Saturated fat	Sugar	Salt
1048kJ 250kcal	3.0g	1.3g	34g	0.9g
	LOW	LOW	HIGH	MED
13%	4%	7%	38%	15%

of an adult's reference intake
Typical values (as sold) per 100g: 697kJ/167kcal

Choose foods lower
in fat, salt and sugars

Use the Eatwell Guide to help you get a balance of healthier and more sustainable food. It shows how much of what you eat overall should come from each food group.



Per day 2000kcal 2500kcal = ALL FOOD + ALL DRINKS

Eat more of these:

Fruit and vegetables are a key part of healthy eating. They provide vitamins, minerals and fibre to keep you and your kidneys well.

Aim to enjoy 5 portions of fruit and vegetables a day, or more if you can. Choose a variety to ensure you get different vitamins and minerals. This can be from fresh, frozen, dried or canned fruit and vegetables. 1 portion is approximately 1 handful.



Starchy foods like bread, potatoes, pasta, rice, and other grains are part of a healthy diet. These foods are a key source of energy for the body.



If you can, choose wholegrain products like wholemeal bread, brown rice, wholewheat pasta, oats and potatoes with skins on to ensure you get more fibre, and vitamins.

Beans, lentils, chickpeas and other pulses provide protein. They are also high in fibre and low in less healthy fats.

Regularly replacing some of your meat with these foods may help to slow the loss of kidney function.



Eat some of these:

Animal protein foods like fish, eggs, meat, milk, yoghurt, and cheese provide a range of vitamins and minerals.

They can be part of a healthy diet when eaten in moderate amounts.



However, it is **best to eat more plant sources of protein** such as lentils, beans, pulses, legumes, tofu or nuts and less meat, especially red meat.

Oily fish like salmon, mackerel or sardines provide a source of omega-3 (a healthy fat).

Enjoy one portion of oily fish per week. Or you can obtain Omega-3 from rapeseed oil, walnuts, or seeds (hemp, chia or flax/linseeds).



Dairy foods provide protein, calcium, B vitamins and iodine.

It is best to go for lower fat and lower sugar versions (for example natural yoghurt) most of the time. If you use a plant-based dairy alternative, choose one that is fortified with calcium. It is best to limit plant milks and dairy alternatives (such as yoghurt) to 300 ml ($\frac{1}{2}$ pint) a day if they have phosphate additives listed in the ingredients.



Eat small amounts of these:

We need fats and oils in small amounts. It is best to choose fats like olive oil, nut, seed or healthy vegetables oils, such as rapeseed oil.

Limit less healthy fats such as coconut and palm oil, butter, lard and ghee.



If you can, it is best to keep processed foods to a minimum.

Foods that are pre-packaged, or have added fat, salt, sugar and / or additives are processed. Ready meals are processed. This also includes meats or fish that are salted, cured, smoked, coated, breaded or battered.



Eat less of these:

It is ok to include foods or drinks that are high in the less healthy fats, salt and sugar occasionally e.g. chocolate, cakes, biscuits, pastry, crisps, fried chips and sugary drinks.

Try to keep portion sizes small.



Note: it is advisable that you avoid star fruit. Star fruit has a toxin that can build-up in the body and become harmful to those with kidney disease

Reducing salt

Reducing salt is helpful for everyone with CKD. Most of us eat more salt than we need. Salt is added to many foods before we buy them as part of the food manufacturing process.

Eating salt and salty foods increases your blood pressure. Limiting the amount of salty foods you eat can help keep blood pressure under control and reduce further damage to the kidneys.

Salt can also make you thirsty and makes fluid retention worse.

It is recommended to have less than 5g (one teaspoon) salt per day. Most of this salt is likely to be naturally occurring in the foods you eat. Your taste buds will adapt to less salt, but this may take about 3 weeks.

Tips to reduce salt include:

- If you can, limit processed or convenience foods and takeaways. If you do eat these, check the labels and choose versions that are lower in salt.
- Cook meals from scratch wherever possible.
- Try not to add salt in cooking or at the table. This includes all types of salt, e.g. Lo-Salt or other lower sodium salts, rock salt, sea salt, Himalayan pink salt, garlic salt and kosher salt etc. Salt substitutes such as 'Lo-Salt' or other low sodium salts contain a lot of potassium and are not always suitable for people with kidney disease.
- Use reduced salt stock cubes in your cooking. These are available in most supermarkets.
- Flavour food using a variety of herbs, spices, garlic, ginger, onions, vinegars, lemon or lime juice. Be careful with seasoning mixes as these can contain a lot of salt.



Understanding food labels

Reading and understanding food labels can look complicated and time consuming, but gets easy with practice. If you shop online, this information is available on the supermarket websites.

Having less salt

Some foods may be labelled 'reduced salt', but could still be quite high in salt.

Remember to look at the 'Traffic Light Symbol' on the front of packaging. It will look something like this:

Each serving (150g) contains

Energy	Fat	Saturates	Sugars	Salt
1046kJ 250kcal	3.0g LOW	1.3g LOW	34g HIGH	0.9g MED
13%	4%	7%	38%	15%

Choose foods that are **green** or **amber** for salt. Have *less* of those that are coloured **red**.

of an adult's reference intake
Typical values (as sold) per 100g: 697kJ/ 167kcal

NUTRITION INFORMATION		
TYPICAL VALUES	PER 100g	PER PORTION AS PREPARED (150G)
Energy	747kJ/178kcal	1119kJ/267kcal
Fat	8.0g	12.0g
of which saturates	4.0g	6.1g
Carbohydrate	23.1g	34.6g
of which sugars	1.5g	2.3g
Fibre	0.5g	0.7g
Protein	3.2g	4.8g
Salt	0.44g	0.65g

If there is no traffic light symbol, check the nutritional information on the back of the food packaging.

This may tell you the amount of salt per 100 g of the product, or per portion.

Per 100g	Low	Medium	High
Salt	0-0.3g	0.3-1.5g	More than 1.5g

If the label provides the salt per 100 g, compare with the table above:

If the food label only says how much salt is in a portion, consider how much of that food you're planning to eat. The manufacturer's portion size might be different from yours. Check the portion size on the label and compare it to your own. Picking a larger or smaller portion can have a big impact on the amount of salt you consume.

Phosphate

Avoiding phosphate additives in your food can be helpful if you have CKD. Too much phosphate from additives can be harmful to your kidneys, heart, and bones.

Many processed foods contain phosphate additives. The good news is that you can usually find a similar product without these additives. You can check in the ingredients list on the label. Most people find the easiest way is to look for 'phosph' as part of a word in the list.

However, sometimes a label only shows 'E numbers'. Here is a list of E numbers to watch out for. Some people find it useful to carry a credit card-sized list while shopping, or you can save the numbers on your phone.

E338	Phosphoric acid
E339	Sodium phosphates
E340	Potassium phosphates
E341	Calcium phosphates
E343	Magnesium phosphates
E450	Diphosphates
E451	Triphosphates
E452	Polyphosphates



Cooking from scratch more often will help to reduce the amount of additives you eat.

Note: You can enjoy foods that naturally contain phosphate unless your kidney care team tells you otherwise. Our bodies don't absorb natural phosphates as easily as phosphate additives. If you need guidance on your diet, a kidney Dietitian will assist you in choosing the right foods, including those without additives.



Other considerations

Special Diets

Many people with CKD won't need to follow special diets. However, those with more advanced CKD may be advised to make changes to their potassium, phosphate, protein, or fluid intake.

The advice you receive about limiting these nutrients will depend on your CKD stage, blood test results, medications, and how you like to eat. If you've been told to make dietary changes, a kidney Dietitian can help you create a healthy, balanced, and enjoyable diet while taking your condition into account.

You should not restrict your diet unless you have been advised by your Kidney Doctor or Dietitian to do so.

Poor appetite

If you're in the advanced stages of CKD and find yourself often not feeling hungry, it's a good idea to speak to a kidney Dietitian. They can provide assistance for issues like not wanting to eat much, changes in taste, feeling sick, vomiting, or losing weight without meaning to.

Exercise

Staying active is key to staying healthy. Exercise not only strengthens your bones and muscles but also helps you manage your weight, blood pressure, and diabetes. Aim to do 150 minutes of moderate intensity aerobic activity each week. For example, you can take a 30-minute walk five times a week. Start slowly and gradually increase your activity level based on your current fitness.



Alcohol

General guidance is to try not to exceed 14 units of alcohol per week. If you do drink, spread your drinking evenly over three or more days and have several alcohol-free days per week (always check alcohol consumption is safe with any of your medication).

Smoking

If you currently smoke, then it is advisable that you stop.

Vitamin and mineral supplements

If you are eating well and enjoying a varied diet, there is no need to take a vitamin and mineral supplement. If you do want to take a supplement or herbal remedy, discuss this with your kidney Doctor first. They can help to ensure it is safe to take.

Summary

- **Enjoy a varied healthy diet, rich in vegetables, fruits, wholegrains and pulses each day.**
- **Eat regularly, and try not to miss meals.**
- **Eat less salt, foods that are high in salt and processed foods.**
- **Check food labels to cut down your intake of phosphate additives.**
- **Good control of blood pressure, diabetes and keeping to a healthy weight are helpful to slow the progression of your CKD.**
- **Discuss any over the counter supplements with your kidney Doctor before taking them**
- **Only follow a special diet for your kidneys if you have been advised to by your kidney Doctor or Dietitian.**

Healthy eating for people with chronic kidney disease (CKD)

My dietitian is:

Contact details:

