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My Health My Life

Complications of diabetes

What is diabetic neuropathy?

How do I watch out for diabetic neuropathy?

What can be done to manage diabetic neuropathy?

What is diabetic retinopathy?

reducing the risks

Assessing retinopathy and

Are there any treatments for diabetic retinopathy?

What is diabetic nephropathy

(kidney disease)? What are the signs of

diabetic kidney disease?

What can be done in diabetic kidney disease?

References

What is diabetic neuropathy? Diabetic neuropathy is a type of nerve damage caused by diabetes. High

blood sugar levels injure small blood vessels supplying the nerve fibres, leading to nerve damage.² Nerve fibres throughout the body can be damaged, but this condition commonly affects nerves in the legs and feet.1 Although diabetic neuropathy is a serious complication, it can be prevented, or its progression can be slowed with good blood sugar control and a

healthy lifestyle.1 What are the symptoms of diabetic neuropathy?

Symptoms depend on¹:

The type of neuropathy

- The affected nerves
- Main types of neuropathy:
- Sensory

Damage to the nerves which detect touch, temperature and

Symptoms^{2,3}:

pain. Commonly affects the feet and legs, but can also affect the arms and hands²

- Numbness, reduced ability to feel pain (or) temparature changes Loss of coordination

Tingling and prickling sensation (pins and needles)

- Burning or shooting pains
- Pain from stimuli that do not usually cause pain at all, eg, light touch
- Loss of feeling in the feet—not realizing this is dangerous, because minor injuries may go unnoticed. Untreated minor injuries can progress to
- ulcers or gangrene. Infections that spread and cause tissue death can become untreatable and may require toe, foot or lower leg amputation^{1,2} 2. Autonomic

Affects the nerves to your organs and glands which control involuntary

- actions such as digestion, heart rate, sexual function² Can lead to^{1,2}:

Can lead to^{2,3}:

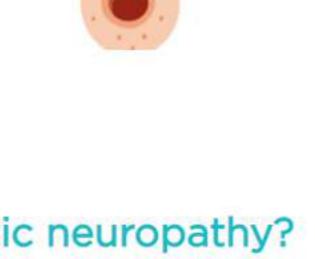
- Excessive or reduced sweating Erectile dysfunction
- - Low blood pressure, making you feel faint or dizzy after sitting or standing
- tissue
 - Muscle twitching and cramps Foot drop, ie, difficulty lifting the front part of the foot

If diabetic neuropathy is diagnosed and treated early, the chances of controlling symptoms and limiting the damage

are better. Stay alert for signs and symptoms of diabetic neuropathy. 1,3 For example, a small sore that does not get better can become an ulcer-unattended foot ulcers can become gangrenous (where the tissue dies) and require surgery or foot amputation. This can be prevented through early detection and treatment. See a doctor if you have 1,3:

- Loss of balance
- If you have type 2 diabetes, you should also have an assessment for
- neuropathy when you are first diagnosed with diabetes and annually thereafter.4

the management of diabetic neuropathy to 1.2:



1. Slow nerve damageM^{1,2} Keeping blood sugar levels within your target range can prevent or delay

symptoms

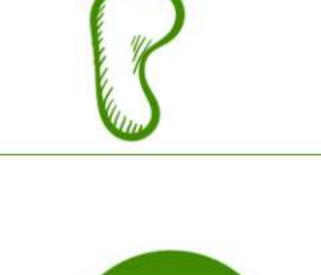
 Eat healthily Exercise and stay active Keep a healthy weight

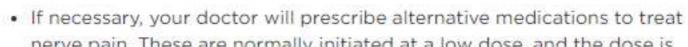
Avoid alcohol or drink in moderation if you are allowed to drink

Good foot care is very important

Stop smoking

- Wear cushioned, well-fitted shoes
- Trim your toenails straight and file them to avoid sharp edges Get a comprehensive foot examination performed by your doctor at least once each year



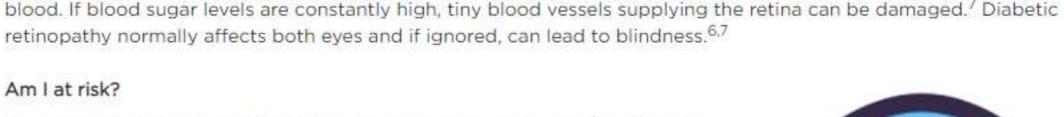


paracetamol and ibuprofen

dysfunction, bladder control

High blood pressure

- nerve pain. These are normally initiated at a low dose, and the dose is increased slowly until you feel better. If you feel side effets such as tiredness and dizziness, your doctor may reduce your dose, or change
- your medication if they persist. Many of these medications are also used for other conditions such as depression and epilepsy. Hence, your doctor may prescribe an antidepressant for your nerve pain, even if you are not depressed Alternative therapies include capsaicin cream, lidocaine plaster, transcutaneous electrical nerve stimulation (TENS) and acupuncture Manage complications and restore function^{1,3}
- · Eating smaller, more frequent meals and reducing fat in the diet can help with digestive problems



What is diabetic retinopathy?

If you have type 1 or type 2 diabetes, you have a risk of developing diabetic Prolonged diabetes—the longer you have diabetes, the higher the risk Poor glucose control

Diabetic retinopathy causes progressive damage to the retina, and is the most common type of diabetic eye

disease. 5.6 The retina is the light-sensitive layer of tissue at the back of the eye—it needs a continuous supply of



What are the symptoms and complications of diabetic retinopathy?

screening is important, because early signs can be detected by taking photographs of the eye. If diabetic retinopathy is not diagnosed and treated quickly, it can lead to permanent vision loss.7 Symptoms usually appear when it is more advanced.5

· A dark or empty spot in the centre of your vision

If you have type 1 or type 2 diabetes, you have a risk of developing diabetic

 Double vision Eye pain or redness

Assessing retinopathy and reducing the risks How often do I need to check my eyes?



If you control your sugar levels, blood pressure and cholesterol, your chances of developing retinopathy will be lower. Adhere to your diabetes medications, and remember about lifestyle factors too-keep a healthy weight, have a

ketone levels regularly.5 Are there any treatments for diabetic retinopathy? Treatment depends on the stage of diabetic retinopathy. Early stages may

only require regular monitoring. Controlling your blood sugar levels and a

healthy lifestyle will slow the onset and progression of the condition. Laser surgery is normally used to treat more advanced disease. 6 Other treatments

include injecting medications into the eyes, or surgically removing blood or

Anyone can have kidney disease, but it is much more common among those with diabetes and high blood pressure.⁸ High sugar levels cause the kidneys

to filter too much blood and work extra hard. Over time, the kidneys

become leaky and proteins are lost in the urine. The overworked kidneys

become less and less efficient as a filter, and waste products build up in the

scar tissue from the eyes.7

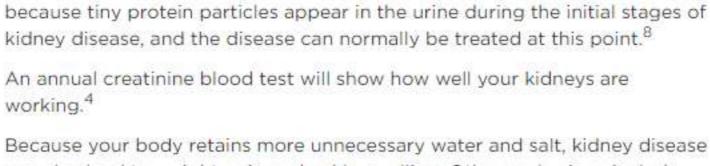
blood.8,9

more.

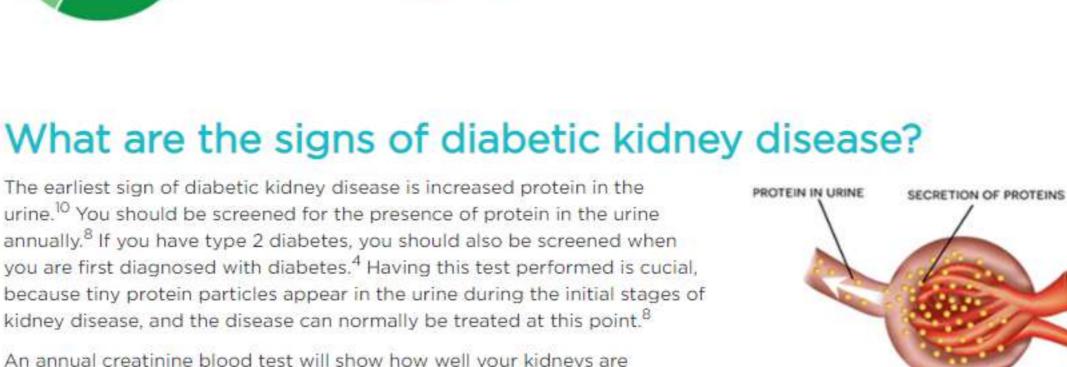


30% type 1 Almost one-third of patients with type 1 diabetes and 10-40% of patients with type 2 diabetes will ultimately suffer from kidney failure.10 10-40% type 2

In Malaysia, diabetic nephropathy contributed 58% to 58% of new patients needing dialysis (blood filtered by machine) in 2012.4



What can be done in diabetic kidney disease?



smoking, stay physically active, lose weight, eat healthily and lower salt intake. 4,8,9 You may be prescribed with an angiotensin-converting enzyme inhibitor or angiotensin II receptor blocker-blood pressure-lowering medications which also delay the progression of kidney disease.⁸ Speak to your doctor to find out

Good blood sugar and blood pressure control lowers the risk and slows the progression of kidney disease. Stop

the body. However, speak to a dietician before making changes to your diet. B Dialysis or a kidney transplant is

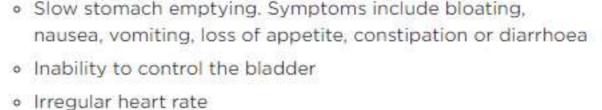
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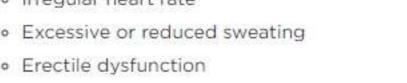
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infections.



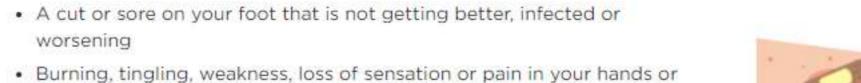


- Problems with body temperature regulation Lack of awareness of low blood sugar levels
- 3. Motor Damage to nerves controlling muscle movement²

Muscle weakness, resulting in falls or problems with tasks

Muscle thinning, whereby the lack of activity causes loss of muscle

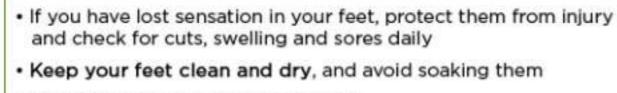












2. Relieve pain^{1,3}

Neuropathic pain does not normally respond to common painkillers, eg,

- These include medications and treatments for nausea, vomiting, erectile
- If you have low blood pressure on standing, avoid alcohol, drink enough water, and sit or stand slowly

retinopathy. The factors below will increase this risk^{5,7}:

High cholesterol or fats in the blood

In the early stages, diabetic retinopathy does not normally have any symptoms or pain. Hence, diabetic eye

 Sudden vision loss Slowly worsening/blurred vision Eye floaters and spots

retinopathy. The factors below will increase this risk^{5,7}:

Seek urgent medical attention if you have 5-7:

Difficulty seeing well at night

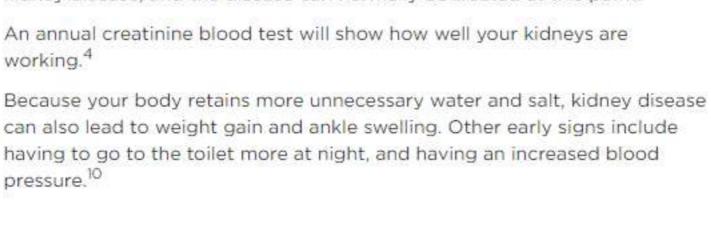
present. If you have type 2 diabetes, an assessment should also be performed when you are first diagnosed with diabetes. 4 If diabetic retinopathy is discovered early, lifestyle changes and/or treatment can prevent it from worsening.7 How do I reduce my risk of diabetic retinopathy?

If you have diabetes, assessment/screening for retinopathy should be

conducted at least once a year, 4,7 and more often if there is damage already







The earliest sign of diabetic kidney disease is increased protein in the

urine. 10 You should be screened for the presence of protein in the urine

annually.8 If you have type 2 diabetes, you should also be screened when

you are first diagnosed with diabetes. 4 Having this test performed is cucial,

If kidney disease worsens, you may be advised to decrease protein intake to delay the progression of kidney damage.4 Limiting foods high in potassium, phosphate or sodium helps prevent the build-up of waste products in needed if the kidneys fail.9



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