Why is iron so important for your health?
Iron is an essential nutrient for your body, which you get from your food. It is needed for your mental and physical health and to keep your energy levels up. Iron is present in a substance called haemoglobin, which is found in red blood cells. Haemoglobin carries oxygen in the blood from the lungs to the rest of the body. Oxygen is required in your brain for concentration and in your muscles for physical energy. Iron is also needed to maintain a healthy immune system, helping you to fight off infections.

What happens if you don't get enough iron?
If the iron levels in your body are low you can become iron deficient. The recommended levels for iron in the body are different for different people, depending on age and gender. If iron deficiency is not treated there can be long-term consequences for your health. Fatigue and other symptoms of iron deficiency, extreme tiredness or fatigue is often reported by patients because your blood is less able to transport oxygen around your body.

Over time, iron deficiency can mean that your body makes fewer healthy red blood cells, a condition known as Iron Deficiency Anaemia (IDA). In industrialized countries, between two and four percent of people have iron deficiency anaemia. There are many symptoms of iron deficiency anaemia, however one of the main signs is feeling fatigued or exhausted because your blood is less able to transport oxygen around your body.

If iron deficiency is not treated there can be long-term consequences for your health. Fatigue and other symptoms of iron deficiency can also lower your quality of life and reduce your ability to concentrate and be productive at work. If you think you may be anaemic or iron deficient, it is important that you speak to your doctor so that they can investigate further.

Are you getting enough iron?
Balancing the supply and demand for iron in your body is important to maintain good health. Normally your iron levels remain in balance, with iron from your diet replacing the iron stores used up by your body. The iron in your food is absorbed into the bloodstream in your small intestine.

The supply and demand for iron in your body can become unbalanced for a number of reasons and this can lead to iron deficiency.

A decreased supply of iron to your body can be caused by...

- A lack of iron in your diet. Iron can be found in both animal products and plant foods. Iron from animal products (known as haem iron) is better absorbed by your body than iron from plant foods (known as non-haem iron). If you are vegetarian or vegan it is more likely that you will not be getting enough iron. Choosing what you eat wisely can help to keep your iron levels up.

- Iron from your food not being absorbed properly in your small intestine. If you have Inflammatory Bowel Disease (Crohn’s disease or ulcerative colitis) or coeliac disease, then the lining of your small intestine may be inflamed. This means that less iron can be absorbed from your food into your bloodstream.

An increased demand for iron may be caused by...

- Blood loss, for example as a result of:
  - Heavy periods.
  - Internal bleeding from your gut (gastro-intestinal bleeding).
  - Frequent blood donation.
  - Traumatic injuries/ accidents.
  - Surgery.
  - Increased demand for red blood cells or oxygen in your body, for example as a result of:
    - Intense exercise.
    - Growth and development in children and adolescents.
    - Pregnancy.
  - Chronic inflammation in diseases such as Inflammatory Bowel Disease or Rheumatoid Arthritis: If you have a condition that involves chronic inflammation, your immune system can block the release of iron from your body's iron stores, reducing the amount of iron available to make red blood cells.
  - Other medical conditions and/or therapies, such as haemodialysis for patients with kidney disease.

If you are not getting enough iron, for any reason, you might find yourself lacking in energy and feeling exhausted day after day. While there are other symptoms of iron deficiency, extreme tiredness or fatigue is often reported by patients.

Do you feel more than just tired?
Everyone gets tired from time to time, but if you feel exhausted every day, it may be that you are suffering from fatigue. How do you tell the difference between tiredness and fatigue?

A good first step towards understanding why you are feeling tired is to look at your lifestyle and daily stresses and strains. These might include:

- Lack of exercise.
- Lack of sleep.
- Too much physical activity.
- Excess caffeine intake, or excess alcohol intake.
- Illnesses such as colds or flu.

If you are tired for one of these reasons, it is likely that your tiredness will not last very long and that you will feel better after exercising, resting, or getting more sleep.

Use our Symptom Browser to see the complete list of symptoms that iron deficiency can cause and to understand what each of these symptoms involves.
However if you are feeling exhausted, and this continues day after day, it could be that you are “more than tired” and are suffering from fatigue. If you are experiencing fatigue, you may feel physically and mentally exhausted and lack energy for a number of days each week, even if you have not been doing any physical activities that are particularly tiring. You may also be too exhausted to complete normal daily tasks such as getting dressed or going shopping, and you may often feel too tired to spend time with friends or family. Some people have described fatigue as feeling “ listless”, “washed out” or “cranky”.

Fatigue is common and is often the first problem that people mention when they visit their doctors. It is a complex symptom because it can be caused by many different underlying conditions, such as:

- Iron deficiency and iron deficiency anaemia.
- Anaemia due to other reasons, such as low levels of vitamin B12 or folate.
- Hormonal conditions such as hypothyroidism and diabetes.
- Chronic fatigue syndrome, also called myalgic encephalomyelitis (ME).
- Depression, and sleep problems.
- Iron overload, known as haemochromatosis, where too much iron can lead to iron building up in the organs of your body.

Because there are so many reasons why you may experience fatigue it is important that you talk to your doctor to discuss how you feel in more detail. Your doctor is in the best position to diagnose fatigue and to discuss any possible treatment options with you.

If your fatigue is due to iron deficiency or iron deficiency anaemia, increasing your iron intake through your diet and, if necessary, through treatment can make you feel much better. This is why it is important to talk to your doctor and to be on the look-out for other signs that you might be iron deficient.

Other signs you might be iron deficient
Fatigue, headache and irritability are common symptoms of iron deficiency, but there are other symptoms too. You may experience one or more of these symptoms at the same time.

Apart from fatigue, the other symptoms of iron deficiency include:

Looking Pale.
Haemoglobin is a red-coloured pigment. If you are iron deficient, there may be less haemoglobin in your blood and you may look pale. Your whole body might look pale but some people can notice the paleness most easily on their face, nails, inner mouth and lining of the eyes. If you pull your lower eyelid down, the colour of the lining should be a rich, red colour. If it is a very pale peach colour or yellow, this may indicate that you have iron deficiency or iron deficiency anaemia.

Shortness of Breath and a Racing Heart.
During exercise, it is normal that you might experience shortness of breath and a racing heart because there is an increased demand for oxygen in your body. If you are iron deficient, your blood may not contain enough oxygen for your muscles to do normal activities such as walking. Your body tries to make up for this by increasing your breathing rate to get more oxygen into your body, and by increasing your heart rate to help move the oxygen around your body.

Sore Tongue or Dry Mouth.
Iron deficiency can affect the surface of your tongue making it feel sore for no apparent reason. Likewise, you may have an uncomfortably dry mouth even if you have been drinking plenty of liquids.

Cracks at the Corners of Your Mouth.
Iron deficiency can also cause the appearance of sore, red, flaky cracks at one or both of the sides of your mouth. This feels more extreme than when your lips are chapped due to cold weather.

Mouth Ulcers.
Mouth ulcers are sore white patches on the inside your mouth. There are many reasons why you might have mouth ulcers, including biting the inside of your mouth, stress and being run-down, but another reason could be iron deficiency.

Cold Intolerance or Cold Hands and Feet.
If you feel the cold easily or regularly have cold hands and/or feet even if the temperature around you is not cold, it may be that there is not enough oxygen being delivered in your blood to your hands and feet, which could be a result of iron deficiency.

Craving to Eat Non-Food Items.
Craving certain foods from time to time is normal, especially during pregnancy. However if you have cravings to eat ice or non-food items such as clay, dirt, ash, and starch this could be a sign of iron deficiency. This kind of eating disorder is also called “pica”. If you are eating ice regularly you may also want to discuss this with your dentist as chewing ice can damage your teeth.

Restless Leg Syndrome.
Restless leg syndrome is a disturbing need to move your legs when resting, for example when you are in bed. This distressing feeling often goes away when you move your legs. It is possible to have restless leg syndrome but not be iron deficient, but if you are iron deficient you are nine times more likely to experience restless leg syndrome than the general population.

Hair Loss.
It is natural for some hair to fall out when you are washing or combing it, but if you are losing clumps of hair, or more hair than normal, it could be caused by iron deficiency. Increasing your iron levels could stop or reduce your hair loss.

Brittle, or Spoon-Shaped Nails.
Brittle nails chip and crack easily. Spending a lot of time with your hands in water or using some nail polishes can lead to brittle nails, but brittle nails can also be a sign of iron deficiency. Another sign of iron deficiency is ‘spoon-shaped nails’. These are nails that are dipped in the middle and raised at the edges to give a rounded appearance like a spoon.

Headache.
Headaches can occur for many reasons such as colds, being dehydrated or eyesight problems. Repeated headaches could also be a sign of iron deficiency.
Increased Susceptibility to Infections.18
If you seem to be picking up more infections than usual, such as coughs and colds, this could be a sign that you have iron deficiency. Iron is needed by your body to maintain a healthy immune system.

Dizziness,19,20 Irritability,21-23 and Loss of Concentration.23-25
Feeling irritable, dizzy or losing concentration quickly could be due to iron deficiency. Iron helps your blood deliver oxygen around the body, and feeling irritable or dizzy may be a sign that your brain is not getting enough oxygen.

Don’t diagnose yourself. Talk to your doctor.
If you experience the symptoms listed above, or are concerned for your health in any way, it is important that you talk to your doctor to find out what the underlying problem might be. Your doctor will be able to perform tests to determine whether you have iron deficiency or if your symptoms are due to a different condition.

References

Why is iron so important for your health?

Other signs of ID


Always read the label. Use only as directed. Incorrect use could be harmful. If symptoms persist, see your healthcare professional.

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For medical and product enquiries, contact Vifor Pharma customer service on 1800 202 674. For sales and distribution enquiries, contact Aspen Pharmcare customer service on 1800 153 721.