## Iron Deficiency

## Iron Deficiency Anaemia

Up to 60% of your body's iron is found in the haemoglobin of your red blood cells.1

Iron is an essential element in your blood.





Without iron, many processes, such as energy production and DNA repair cannot happen.<sup>4, 5, 10</sup>

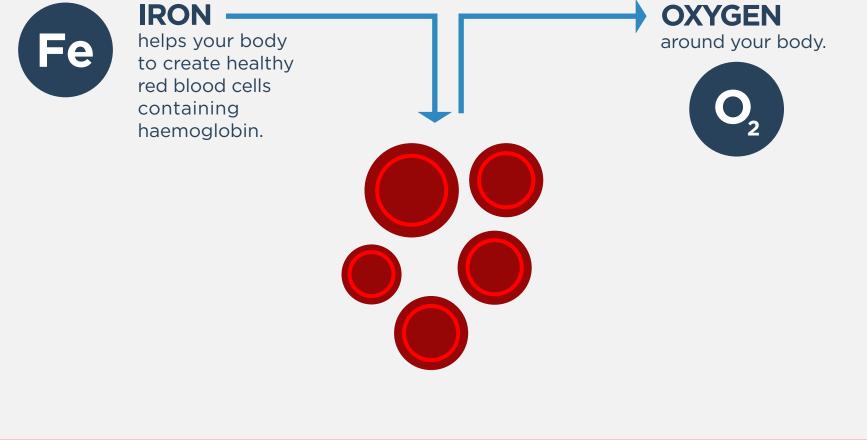
healthy, allowing you to fight off infection.<sup>3</sup>

Iron also helps keep your immune system



tissues.1 It is this oxygen that is needed in your brain for concentration and in your muscles for physical energy.<sup>2, 5</sup> These blood cells carry

Haemoglobin carries oxygen in your blood from the lungs to the



The ideal iron levels are different for everyone, depending on age and

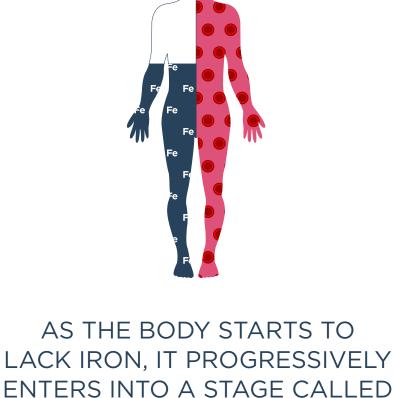
gender and health status.4,6,7



SUPPLY OF IRON AND WHAT THE BODY NEEDS.7,8

incorporated by the body does not meet its needs, it starts to use its iron stores.

When the amount of iron



IRON DEFICIENCY. AT THIS POINT, MANY METABOLIC PATHWAYS MAY BECOME AFFECTED. 1, 4, 9, 18, 19, 20

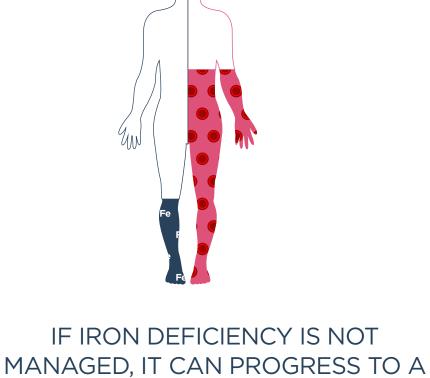
concentration quickly<sup>11, 12</sup>

haemoglobin for the red blood cells.

When the iron stores are

exhausted, the body doesn't

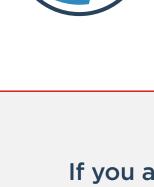
have enough iron to produce



BODY LACKS HAEMOGLOBIN. THIS IS CALLED IRON DEFICIENCY **ANAEMIA.** 1, 4, 9, 18, 19, 20 Reduced availability of iron partly compromises the brain and

Feeling physically tired<sup>11, 12</sup>

MORE SEVERE STAGE IN WHICH THE



yourself lacking in energy and feeling exhausted day after day.<sup>10</sup>

muscle functions, leading to fatigue.5,12

This effect is even more noticeable when there is not enough iron to produce haemoglobin, as the supply of oxygen to the body is reduced.<sup>2, 5</sup>

If you are not getting enough iron, for any reason, you might find

MENTAL FATIGUE Feeling mentally tired, PHYSICAL FATIGUE/ irritable, dizzy or losing **EXHAUSTION** 





## INFLAMMATION People with certain long term inflammatory conditions frequently have iron deficiency and iron deficiency anaemia as the inflammation can cause

- MENSTRUAL BLOOD LOSS

- RHEUMATOID ARTHRITIS

- SURGICAL PATIENTS

- BLOOD LOSS FROM THE GUT

iron absorption in the gut to be blocked. 15 - CHRONIC KIDNEY DISEASE - CHRONIC HEART FAILURE

and post-menopausal women, blood loss from the gut is the most common cause.<sup>14</sup>

- KIDNEY DIALYSIS

- INFLAMMATORY BOWEL DISEASE

- INFLAMMATORY BOWEL DISEASE

- CHRONIC HEART FAILURE

- INFLAMMATORY BOWEL DISEASE



Treating iron deficiency can improve your quality of life, including

relief of fatigue and improvement of cognitive function. It can also

prevent progression to the more severe condition of iron deficiency

anaemia.12, 16, 17

REDUCED ABSORPTION OF IRON (MALABSORPTION)

at risk of developing iron deficiency and iron deficiency anaemia.<sup>14</sup>

Those with damage to their gut have a reduced ability to uptake iron and are











on the unique needs of each patient.

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disease, and obesity: introducing hepcidin. J Acad Nutr Diet. 2012 Mar;112(3):391-400. doi: 10.1016/j.jada. 2011.08.038. Epub 2012 Mar 1. **21.** Camaschella C. Iron deficiency: new insights into diagnosis and treatment. Hematology Am Soc Hematol Educ Program. 2015;2015:8-13. doi: 10.1182/asheducation-2015.1.8 **22.** Johnson-Wimbley TD and Graham DY. Diagnosis and management of iron deficiency anemia in the 21st century. Therap Adv Gastroenterol. 2011 May; 4(3):177-84. doi: 10.1177/1756283X11398736.