



Akshaya Shekhar

Your test results

Metabolic Balance Panel plus Vitamin D and HbA1c

Summary

Congratulations on taking the Metabolic Balance Panel plus Vitamin D and HbA1c which puts you in control of your health data!

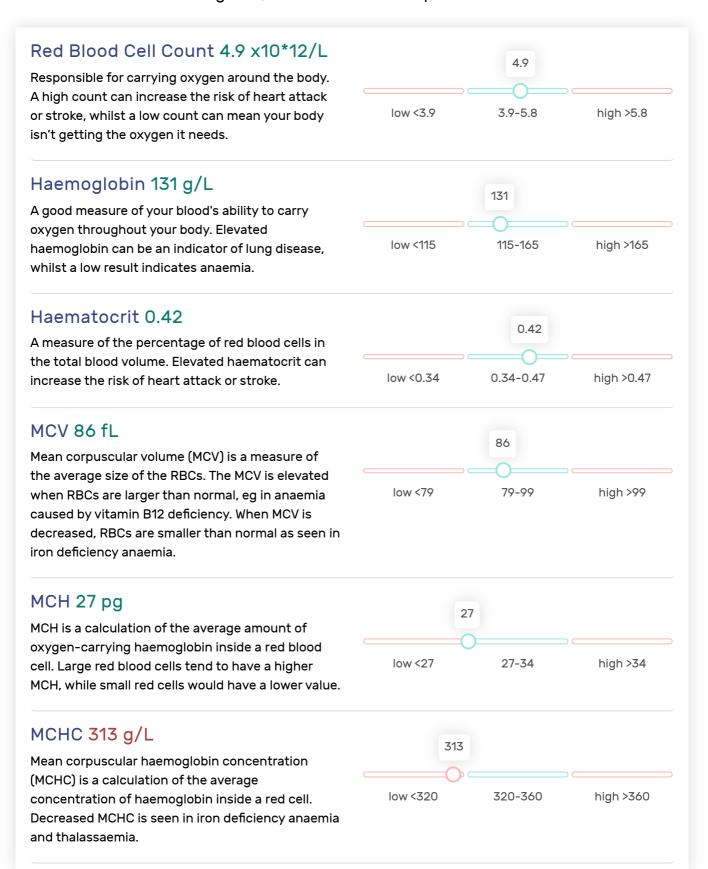


Collection Date: 08 Feb 2023

Full blood count with differential

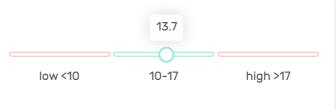
Your MCHC levels are lower than normal. This is not necessarily of clinical significance, though may be seen in situations such as iron deficiency.

Your haemoglobin, white cell count and platelets are normal.



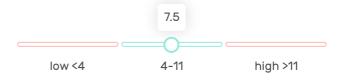
RDW 13.7 %

Red cell distribution width (RDW) is a calculation of the variation in the size of your RBCs. In some anaemias, such as pernicious anaemia (due to vitamin B12 deficiency), the amount of variation in RBC size causes an increase in the RDW.



White Blood Cell Count 7.5 x10*9/L

Responsible for fighting infection. A high count can indicate recent infection and even stress, whilst a low count can result from vitamin deficiencies, liver disease and immune diseases.



Eosinophils 0.1 x10*9/L

A type of white blood cell. Can increase in response to allergic disorders, inflammation of the skin and parasitic infections. They can also occur in response to some infections or to various bone marrow malignancies.



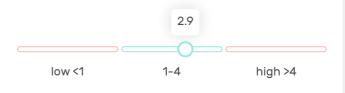
Monocytes 0.6 x10*9/L

A type of white blood cell. Can increase in response to infection as well as inflammatory disorders, and occasionally with some types of leukaemias. Decreased monocyte levels can indicate bone marrow injury or failure and some forms of leukaemia.



Lymphocytes 2.9 x10*9/L

A type of white blood cell. Can increase with bacterial or viral infection, leukaemia, lymphoma, radiation therapy or acute illness. Decreased lymphocyte levels are common in later life but can also indicate steroid medication, stress, lupus and HIV infection.



Neutrophils 3.8 x10*9/L

A type of white blood cell. Can increase in response to bacterial infection, inflammatory disease, steroid medication, or more rarely leukaemia. Decreased neutrophil levels may be the result of severe infection or other conditions.



Platelet Count 314 x10*9/L

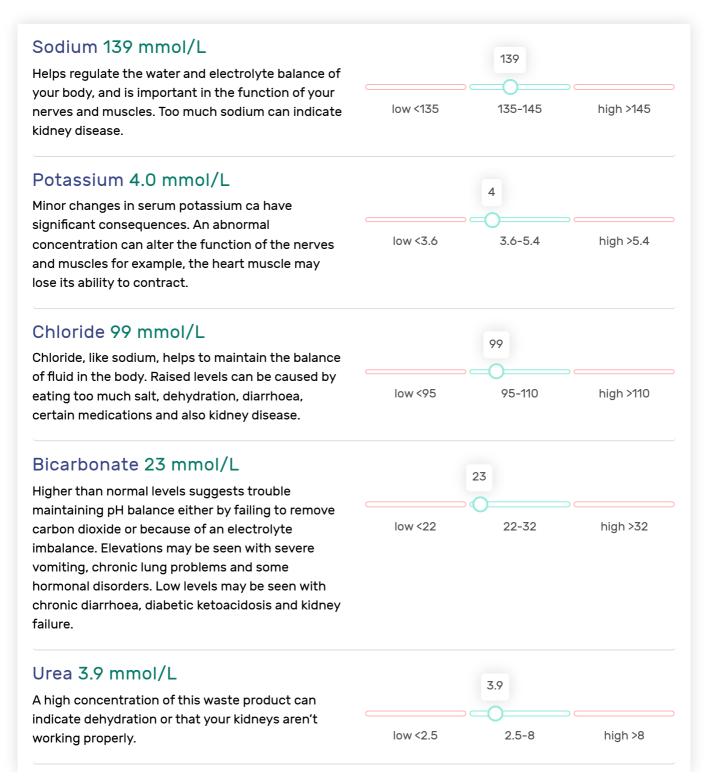
Responsible for blood clotting and healing. A high count can indicate a risk of thrombosis, whilst a low count can lead to easy bruising.

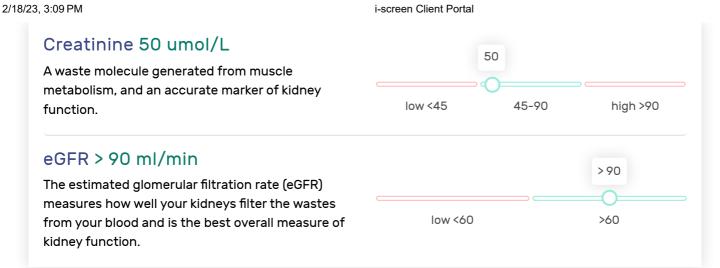


UECs (Kidney Function)

Your kidney function tests are all within normal range and don't show signs of kidney disease.

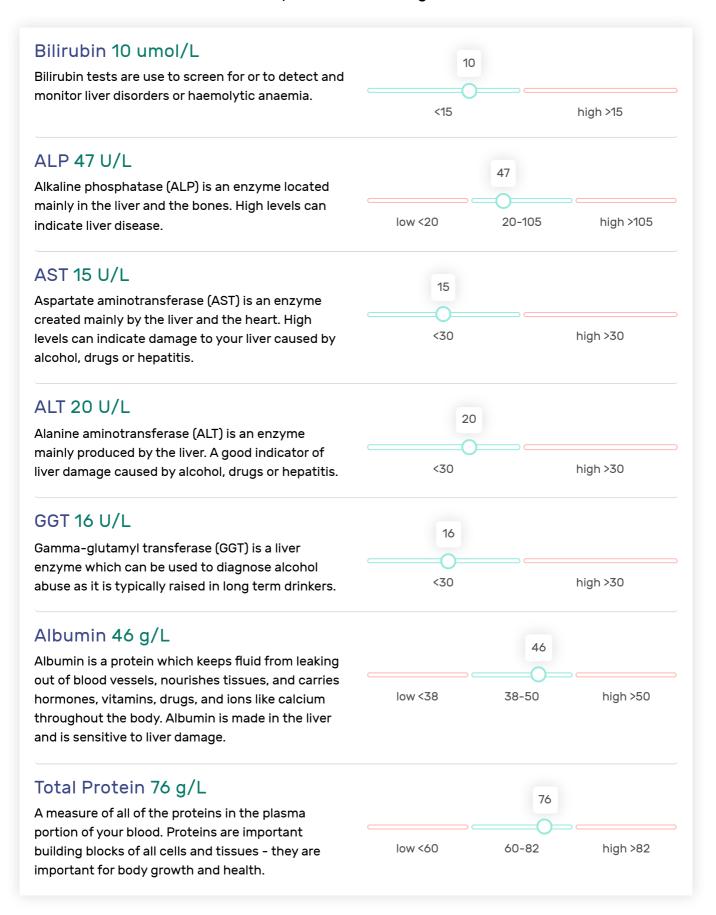
*Note that testing for kidney disease usually also involves a urine sample - refer to our Kidney Check https://www.i-screen.com.au/tests/kidney-function-test for more information. If you have specific concerns it is recommended that you check in with your GP for a discussion and potentially further investigation.





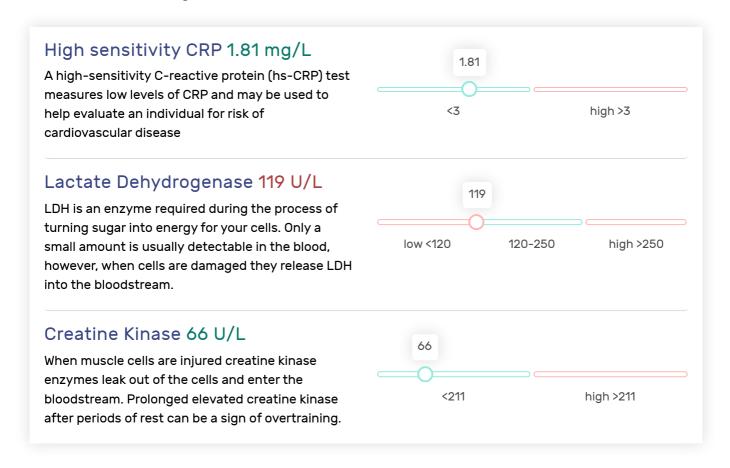
Liver Function (LFTs)

Your liver function results are within normal range which is a good indication that your liver is working as it should be.



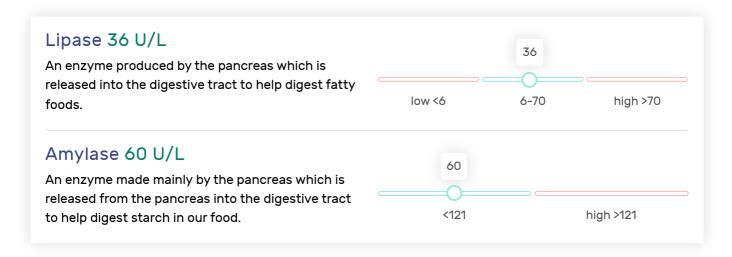
Inflammation

Your lactate dehydrogenase (LDH) levels are slightly lower than normal - this is not commonly encountered and may be of no clinical significance. Genetic differences between individuals can lead to lower LDH levels than would be expected. Some people have no symptoms at all with this, though others may experience fatigue and muscle pain with exercise. High levels of vitamin C supplementation may also lead to reduced LDH levels. You may wish to consider retesting in 1-2 months, which may provide a normal result, though please do follow up with your GP if you have any concerns.



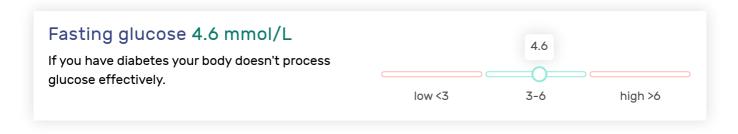
Pancreatic Function

Your pancreatic enzymes are within the normal range and don't show evidence of pancreatic inflammation.



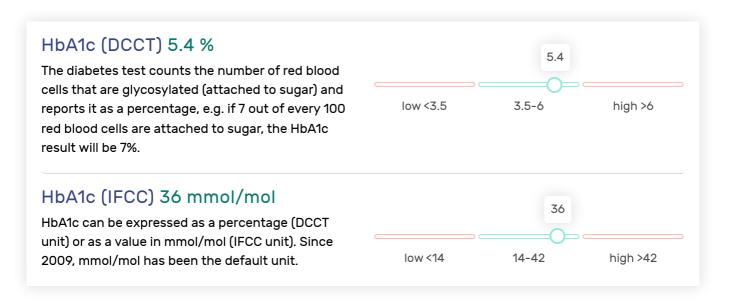
Blood Glucose

Your fasting glucose is within the normal range and doesn't indicate increased risk of diabetes.



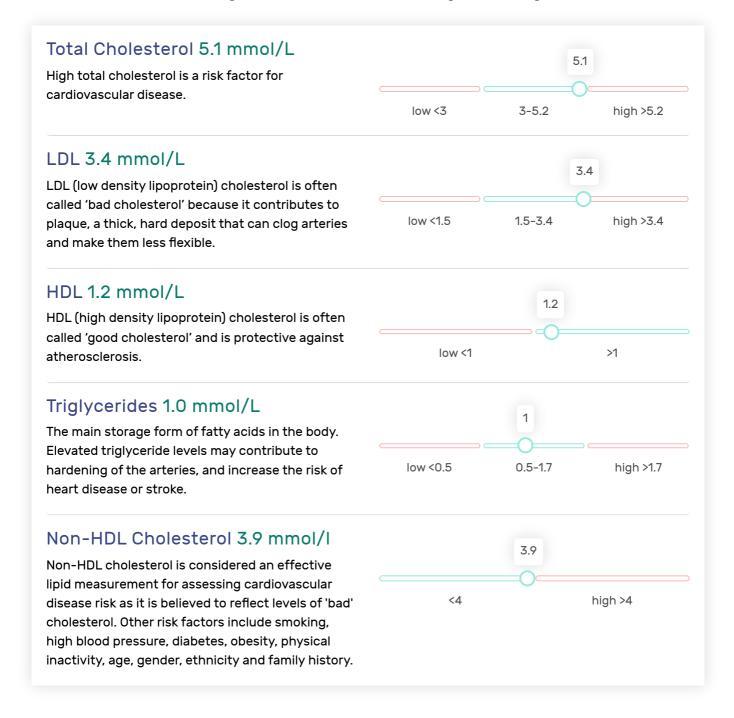
HbA1c

Your glycosylated haemoglobin levels are within the normal range and don't indicate increased risk of diabetes. An HbA1c test assesses how well you control your blood sugar level over several weeks and is therefore more insightful than a single fasting glucose measurement.



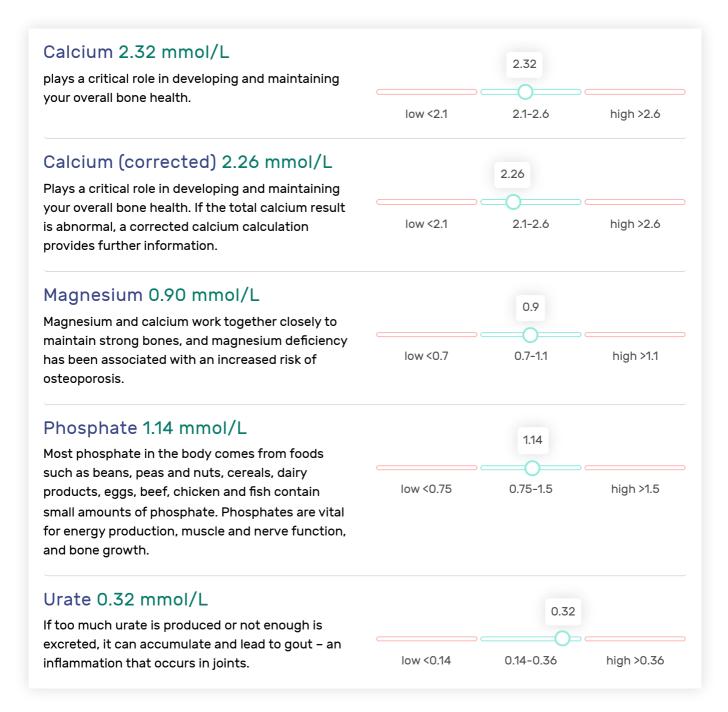
Cholesterol

Your lipid profile is within the normal range. Your LDL "bad" and non-HDL cholesterol levels are within the normal range, whilst your HDL "protective" cholesterol and triglyceride levels are also normal. This typically indicates you are at relatively low risk of developing cardiovascular disease (assuming you are not already in the high risk category).



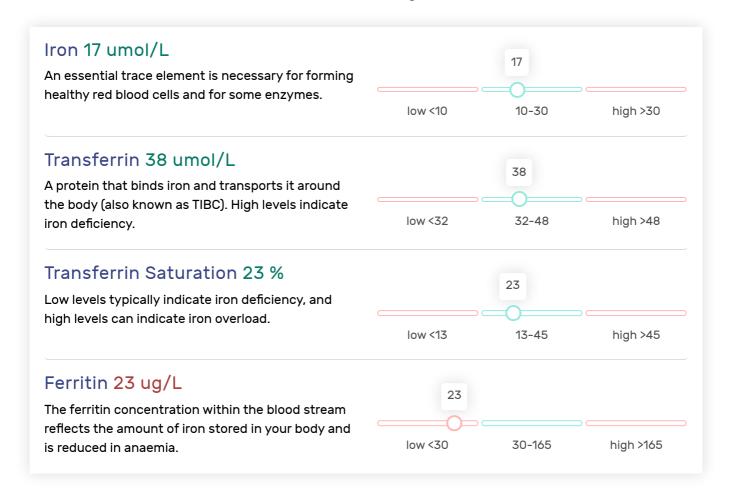
Bone Health

Calcium and phosphate work together to help build strong bones and teeth. Your markers are within the normal range and don't indicate an imbalance that could cause bone weakness.



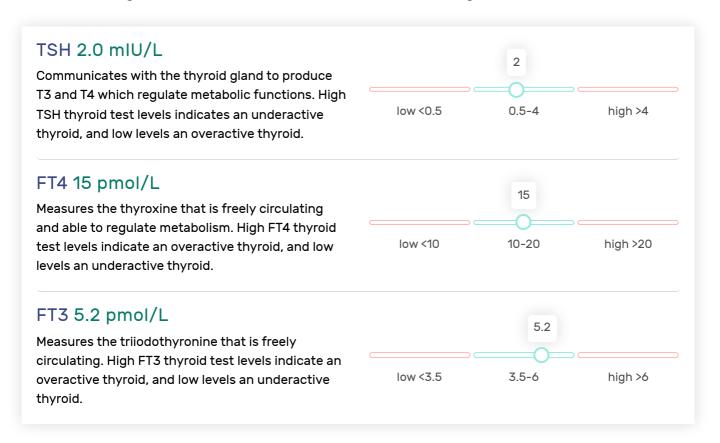
Iron Studies

Your ferritin levels are below the normal range, which may indicate iron deficiency. During reproductive years iron deficiency in women is usually due to heavy menstrual losses, though other possible causes may warrant consideration. I would recommend following up on this result with your GP.



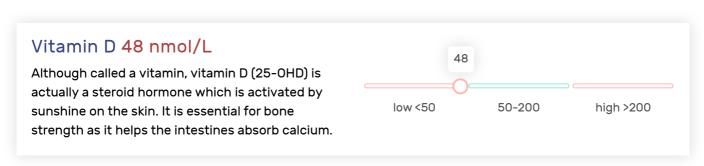
Thyroid Function

Your thyroid hormones are all within the normal range which is typically a good indication that your thyroid is functioning as it should be.



Vitamin D

Your vitamin D levels are below normal range which may indicate a deficiency - we typically like to see vitamin D levels up above 75 nmol/L.



Recommendations

Take your blood pressure



Blood pressure is an important cardiovascular disease risk factor, and taking your blood pressure regularly is recommended. High blood pressure puts extra strain on your arteries and heart which over time can cause the arteries to become thicker and less flexible (making them more likely to become clogged up), or to become weaker. This can lead to a heart attack, a stroke, kidney disease or dementia.

Optimise your iron



Your ferritin levels may indicate an iron deficiency. Some signs that your body is low in iron include feelings of weakness, tiredness and dizziness. Iron deficiency can result in a drop in haemoglobin levels (the protein in your blood that carries oxygen). Consider increasing the amount of iron rich food in your diet. Iron-rich food sources include meats, eggs, green leafy vegetables, (such as spinach, collard greens and kale), wheat germ, whole grain breads, cereals and raisins. Follow up on this result with your GP in the first instance is recommended.

Optimise your vitamin D levels



You may benefit from vitamin D supplementation and increasing your exposure to the sun to approx. 10 minutes per day in the mornings. Calcium and vitamin D deficiencies can result in accelerated bone loss and increased risk of osteoporosis. You may also be interested in our blog on seasonal affective disorder, and the link to vitamin D deficiency.

Check in with your GP



As always, please visit your GP to discuss your results. Laboratory investigations are an important aspect of healthcare, however they must be viewed in the wider context of your medical history, current health and concerns, physical examination findings and other investigations. These results do not replace the need for face to face medical consultation or regular visits to your local GP. A copy of your lab report is attached for your reference.