



Jennifer Phillips

Your test results

Metabolic Balance Panel plus Vitamin D and HbA1c

Summary

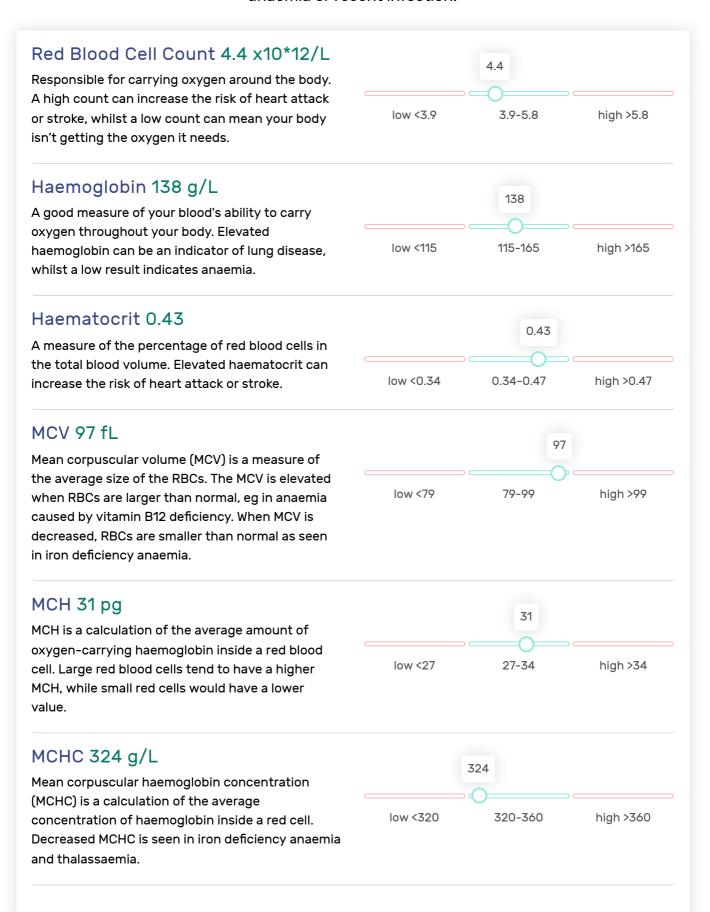
Congratulations on taking the Metabolic Balance Panel plus Vitamin D and HbA1c which puts you in control of your health data!



Collection Date: 04 Jul 2022

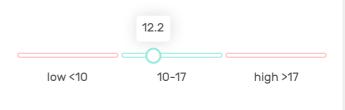
Full blood count with differential

Your blood counts are all within the normal range and don't indicate anaemia or recent infection.



RDW 12.2 %

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 5.6 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.



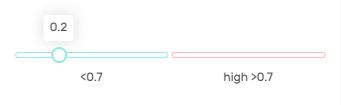
Basophils 0.1 x10*9/L

Basophils are a type of white blood cell. Basophils can increase in cases of leukaemia, long-standing inflammation and hypersensitivity to food.



Eosinophils 0.2 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.



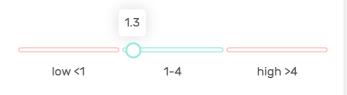
Monocytes 0.4 x10*9/L

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 1.3 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.



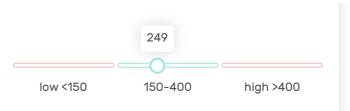
Neutrophils 3.5 x10*9/L

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 249 x10*9/L

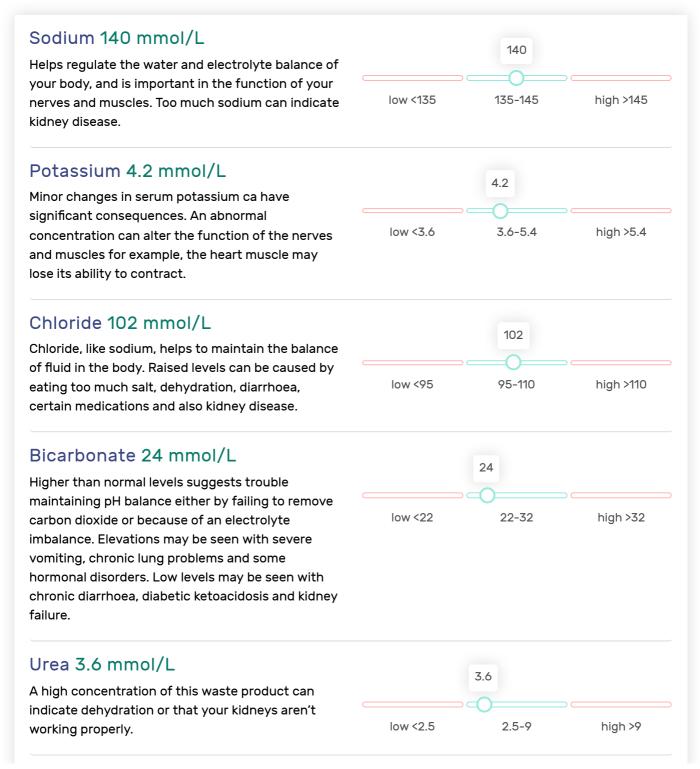
Responsible for blood clotting and healing. A high count can indicate a risk of thrombosis, whilst a low count can lead to easy bruising.



UECs (Kidney Function)

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

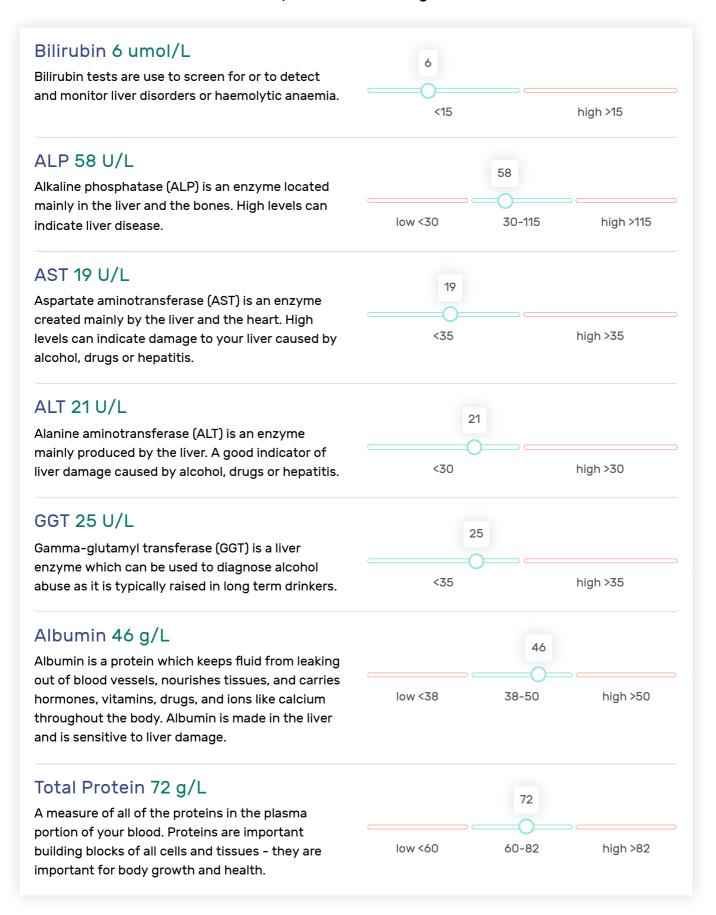
*Note that testing for kidney disease usually also involves a urine sample - refer to our Kidney Check https://www.i-screen.com.au/tests/kidney-function-test for more information. If you have specific concerns it is recommended that you check in with your GP for a discussion and potentially further investigation.



Creatinine 60 umol/L 60 A waste molecule generated from muscle metabolism, and an accurate marker of kidney 45-90 low <45 high >90 function. eGFR > 90 ml/min > 90 The estimated glomerular filtration rate (eGFR) measures how well your kidneys filter the wastes low <60 >60 from your blood and is the best overall measure of kidney function.

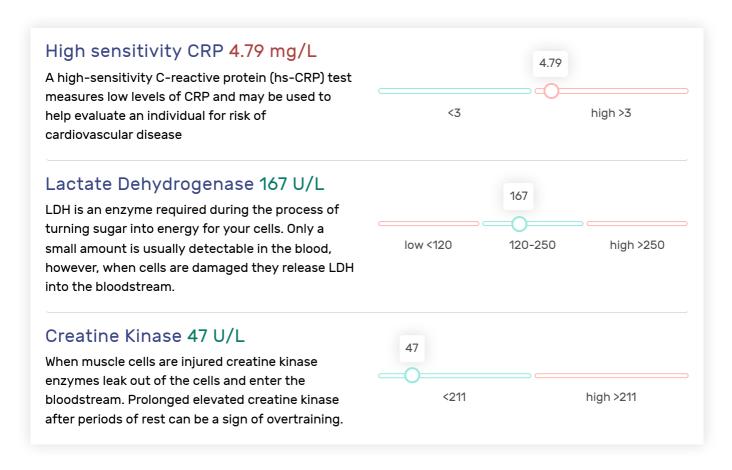
Liver Function (LFTs)

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



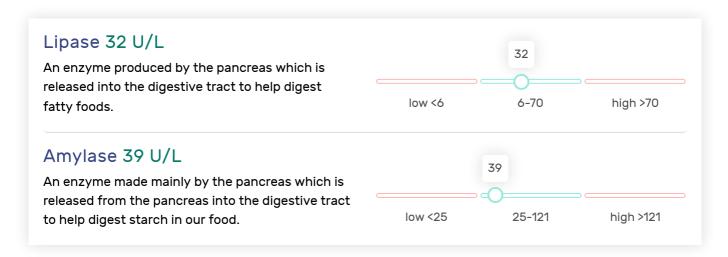
Inflammation

Your hsCRP levels are elevated which can be an indicator of increased cardiovascular disease risk. However note that elevated CRP it is often the first evidence of inflammation or an infection in the body - its concentration increases in the blood within a few hours after the start of infection or other inflammatory injury. The average of two CRP tests, ideally taken two weeks apart, produces a more stable estimate of this marker.



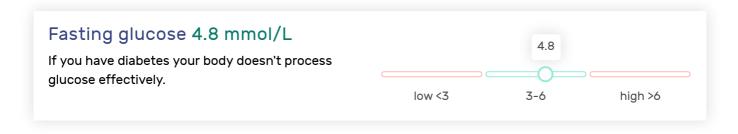
Pancreatic Function

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



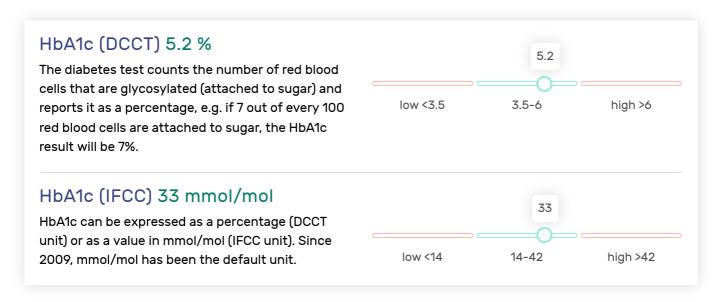
Blood Glucose

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



HbA1c

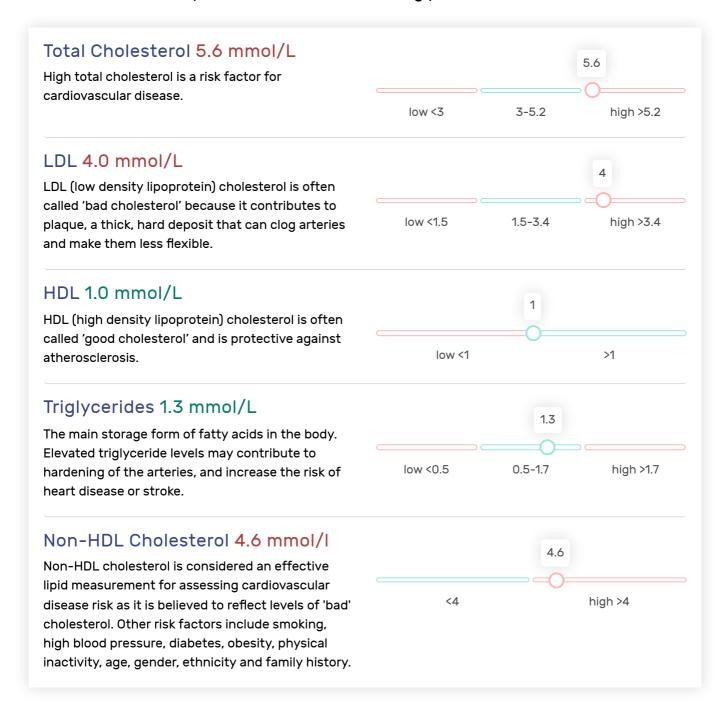
Your glycosylated haemoglobin levels are within the normal range and don't indicate increased risk of diabetes. An HbA1c test assesses how well you control your blood sugar level over several weeks and is therefore more insightful than a single fasting glucose measurement.



Cholesterol

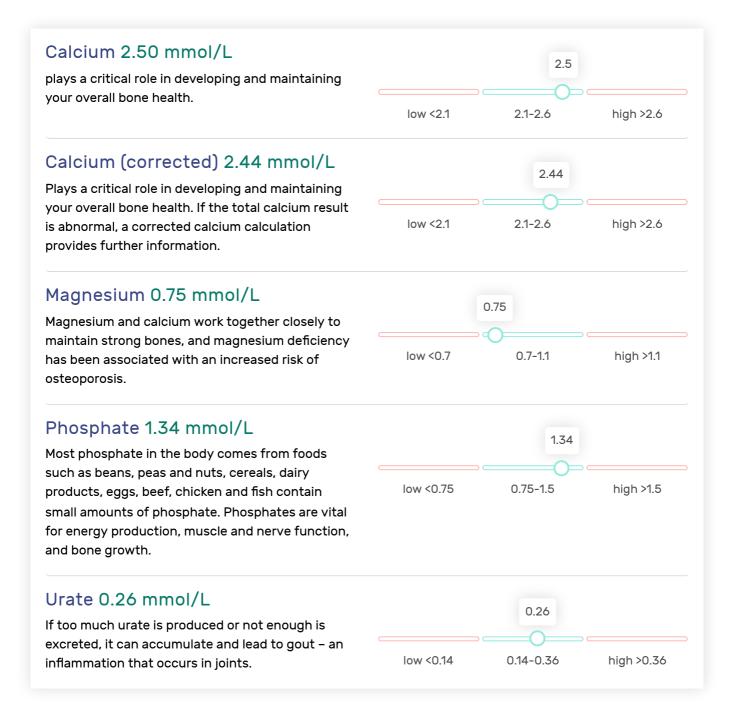
Your lipid profile is outside of normal range as your LDL "bad" and non-HDL cholesterol levels are elevated, which is a risk factor for cardiovascular disease. As such follow up with your GP is recommended, whilst simple and sustainable lifestyle/dietary changes may assist in bringing these values back down toward normal levels.

Your HDL "protective" cholesterol and triglyceride levels are normal.



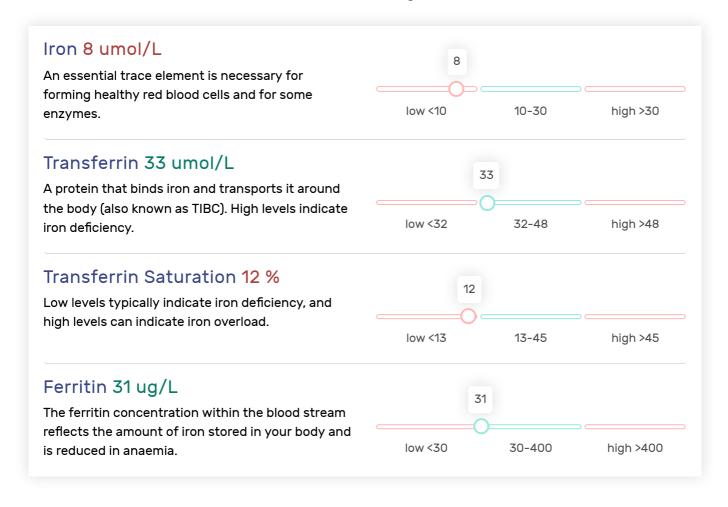
Bone Health

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.



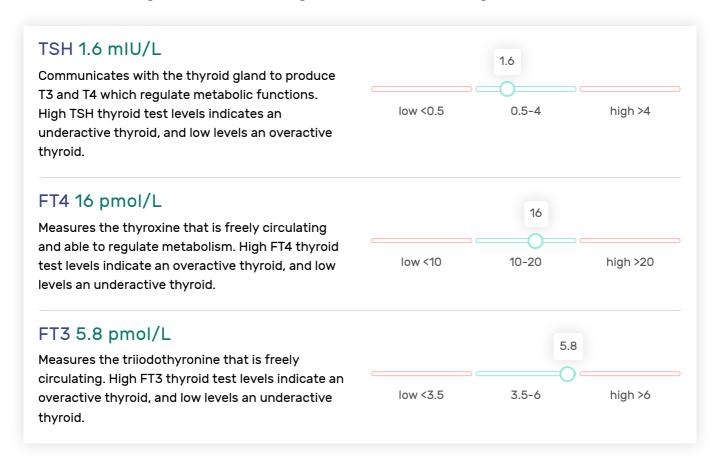
Iron Studies

Your transferrin saturation levels are below the normal range, and your ferritin is borderline, 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.



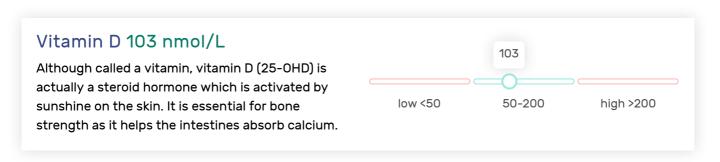
Thyroid Function

Your thyroid hormones are within the normal range, albeit your FT3 levels are at the higher end of normal. As such you may want to consider monitoring your thyroid function, and following up with your GP if you start to experience any symptoms of an overactive thyroid such as unexpected weight loss, rapid or irregular heartbeat, sweating and irritability.



Vitamin D

Your vitamin D levels are within the normal range and don't indicate a deficiency. Typically we 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 I recommend taking your blood pressure regularly. 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



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.

Consider a thyroid antibodies test



Given the results of your thyroid function test, you may want to consider testing your thyroid antibodies. If you request this within the next 48 hrs whilst the lab still has your sample, we can add this test on to avoid you having to visit the collection centre again. The thyroid antibodies can be ordered here: Thyroid Antibodies Add-on.

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.