



# Kelli Ponting

# Your test results Platinum Health Check - Female

### Summary

Congratulations on taking the Platinum Health Check - Female which puts you in control of your health data!



Collection Date: 20 Oct 2023

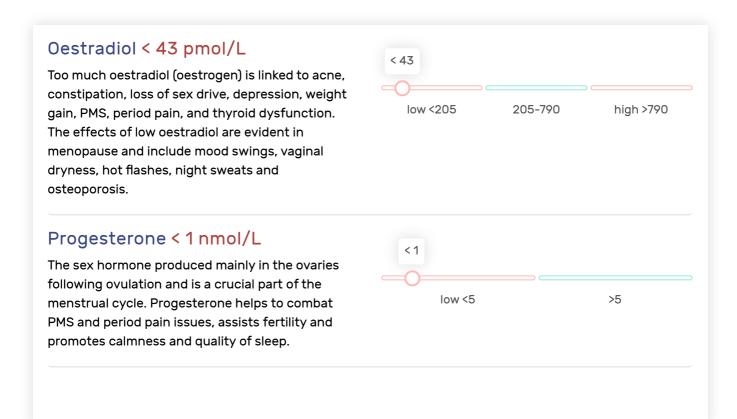
#### Female Hormone Panel

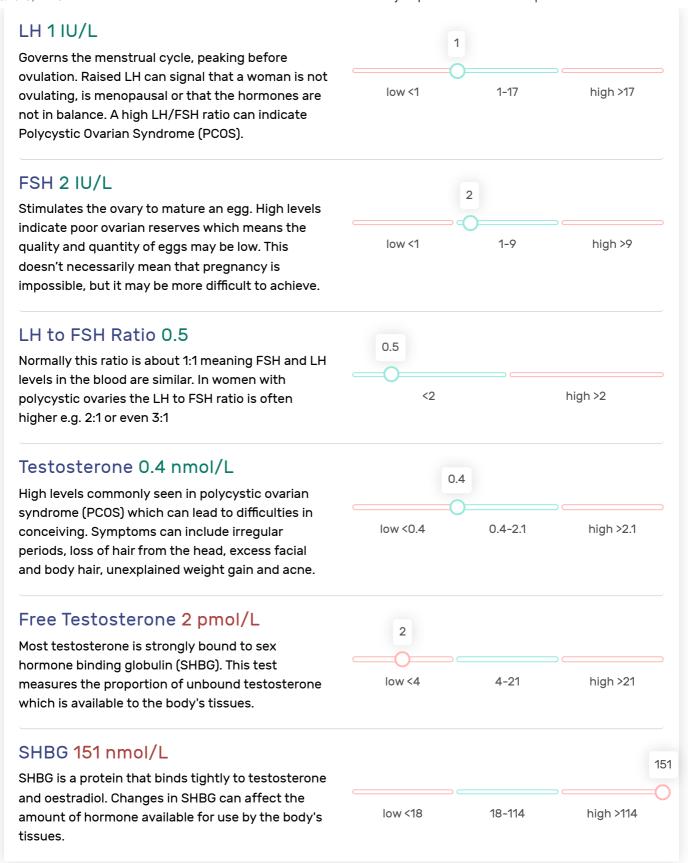
For the purposes of interpreting this test result, it is assumed that your sample was collected between 6 to 8 days after you ovulate (about day 21 of a 28 day cycle, or 17 of a 24 day cycle), and that you are not taking the contraceptive pill.

Progesterone levels typically rise following ovulation, peaking five to nine days later. If your progesterone level is greater than 25 nmol/L it typically means you ovulated this cycle. If your progesterone levels are less than 6 nmol/L (as is your situation) it means you are unlikely to have ovulated this cycle.

Obesity, insulin resistance, high levels of stress, poor diet and lack of exercise can all contribute to low progesterone levels.

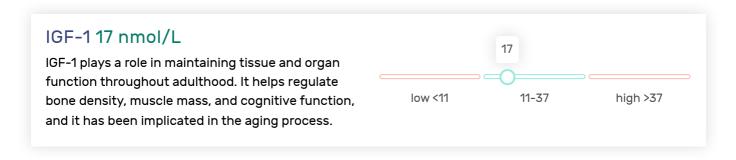
Your SHBG (sex hormone binding globulin) levels are elevated. SHBG is a protein that is produced by the liver. It binds tightly to testosterone and oestradiol and transports them in the blood in an inactive form. Changes in SHBG concentrations can in turn affect the amount of testosterone that is available to be used by the body's tissues. The amount of SHBG in circulation is affected by age and sex, by decreased or increased testosterone or oestrogen production, and can be affected by certain diseases and conditions such as liver disease, thyroid disorders, and obesity.





# Insulin-like growth factor-1 (IGF-1)

Your IGF-1 levels are within the normal range for someone in your age bracket. IGF-1 is produced by the liver and skeletal muscles in response to growth hormone stimulation and stimulates the growth of bones and the production of lean muscle mass.



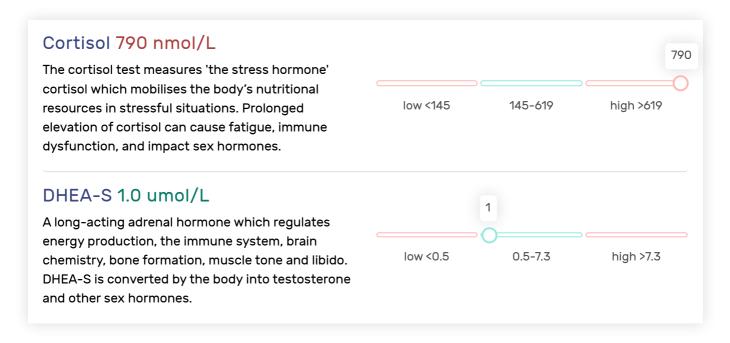
## Adrenocortex Function (serum)

Your morning cortisol levels are elevated. High morning cortisol levels can reflect a hormone imbalance and morning hypoglycaemia (low blood sugar) or stress, but can also be indicative of a more significant underlying health issue such as Cushing's disease.

If you'd like further insight into your adrenal function, you may want to consider an Adrenal Stress Check https://www.i-

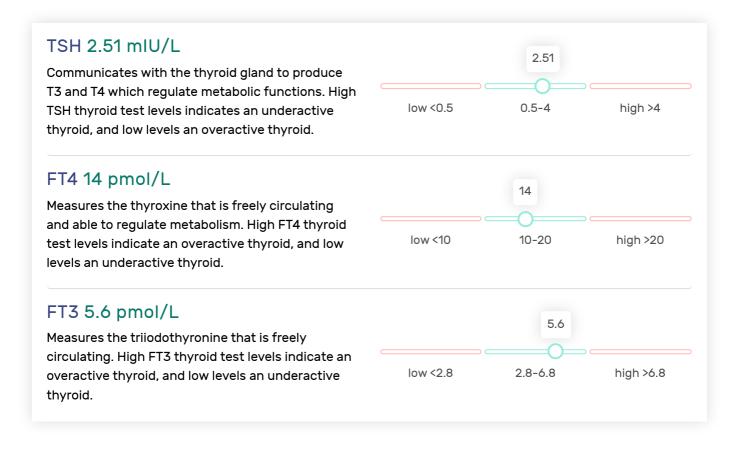
screen.com.au/tests/adrenal-fatigue-test - this is a saliva test that measures your cortisol and DHEA-S adrenal hormone levels at 4 points over the course of the day and thus provides greater insight than a single point in time blood test.

Two of the most important hormones that impact athletic performance are cortisol and DHEA-S, the long-lasting stress hormones produced by the adrenal glands. Cortisol has a catabolic effect which mobilises the body's nutritional resources for fuel. DHEA-S has an opposing anabolic effect and converts food into living tissue. In order to achieve your fitness goals cortisol and DHEA-S must be in proper balance.



# **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. Thyroid hormones play a crucial role in regulating the body's metabolic rate, which is the rate at which the body converts food into energy. They also play a role in regulating body temperature, heart rate, and breathing rate.

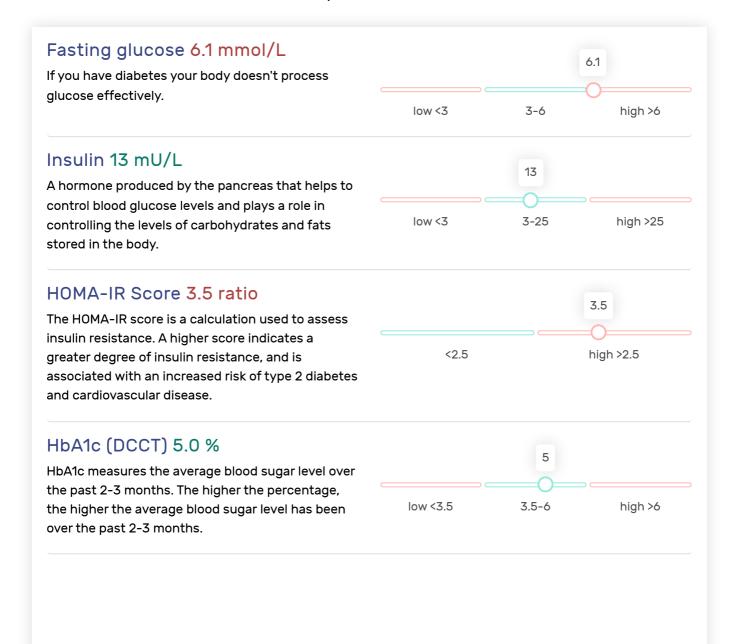


#### Metabolic

Your HOMA score is elevated and may show signs of insulin resistance. A HOMA-IR score greater than 3.1 can indicate severe insulin resistance.

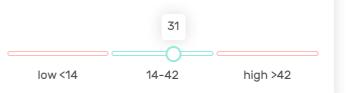
Insulin resistance can significantly affect lipids by increasing triglycerides and LDL 'bad' cholesterol, and decreasing HDL 'good' cholesterol. The cause of insulin resistance isn't completely understood - it's thought to be due in part to genetic factors and partly due to lifestyle. Most people with insulin resistance don't have any symptoms and the effects on the body progress over several years. When the body's insulin production can't keep up, blood sugar increases and over time can progress to diabetes.

This said, your fasting glucose and (more insightfully) HbA1c here are not indicative of prediabetes or diabetes.



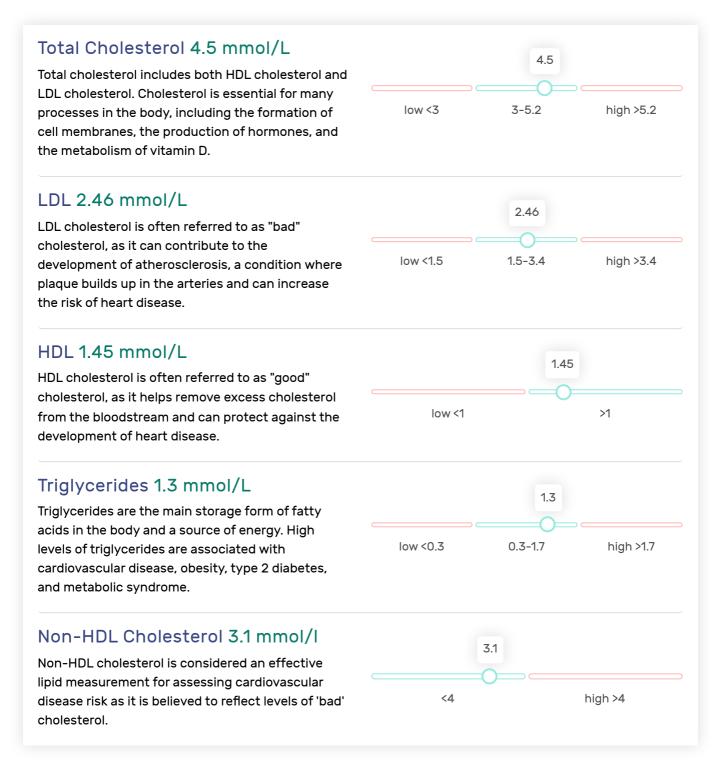
# HbA1c (IFCC) 31 mmol/mol

HbA1c can be expressed as a percentage (DCCT unit) or as a value in mmol/mol (IFCC unit).



#### Cholesterol

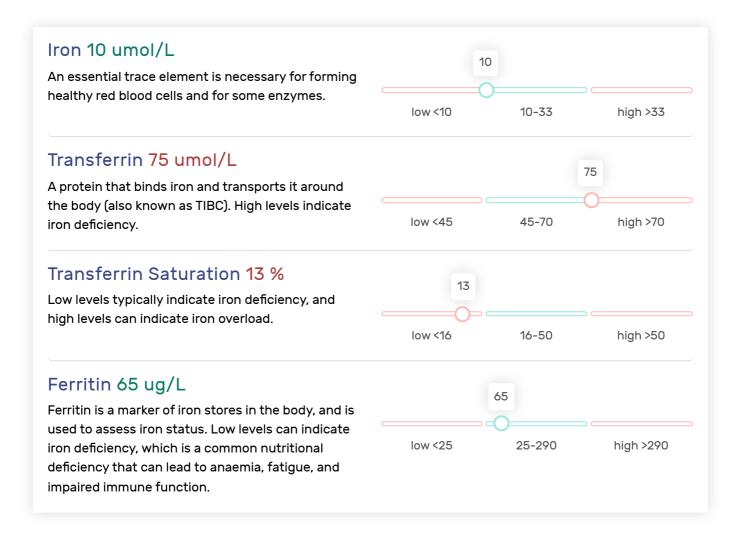
Your lipid profile is within the normal range. Your LDL "bad" and non-HDL cholesterol levels are within the normal range, whilst your HDL "protective" cholesterol and triglyceride levels are also normal. This typically indicates you are at relatively low risk of developing cardiovascular disease (assuming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



#### Iron Studies

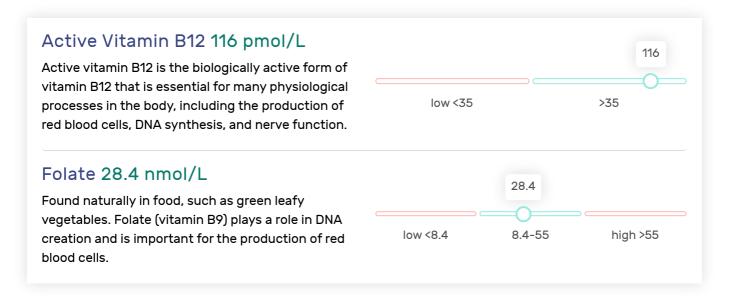
Despite your 'normal' ferritin, your iron levels are below the normal range, and also your transferrin saturation. This pattern typically indicates iron deficiency. During reproductive years, iron deficiency in women is usually due to heavy menstrual losses. I would recommend following up on this result with your GP.

\*Note that ferritin levels may be falsely elevated where there is inflammation.

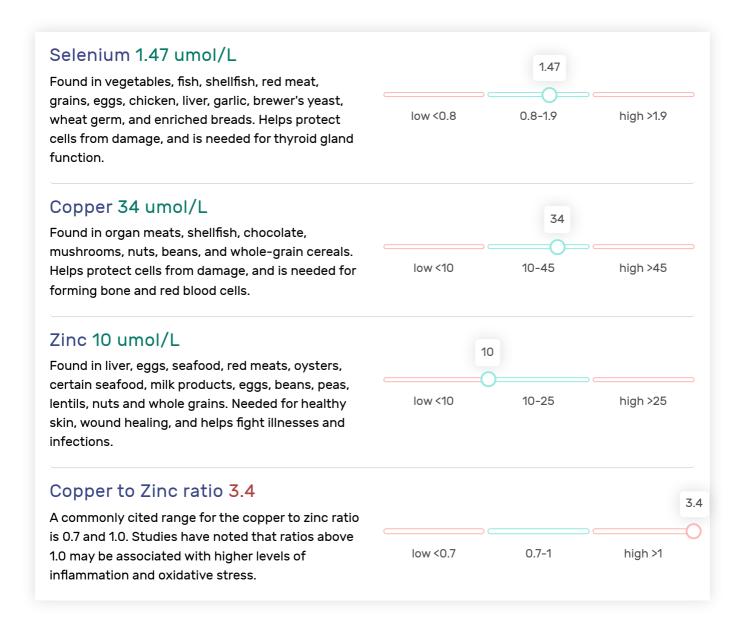


#### **B Vitamins**

Your vitamin levels are within the normal range and don't show signs of a deficiency. These water-soluble vitamins do not accumulate in the body to the same degree as fat soluble vitamins - the body absorbs what it needs and then usually excretes the excess in your urine. This means the body needs a continuous supply through a steady daily intake of B vitamins.

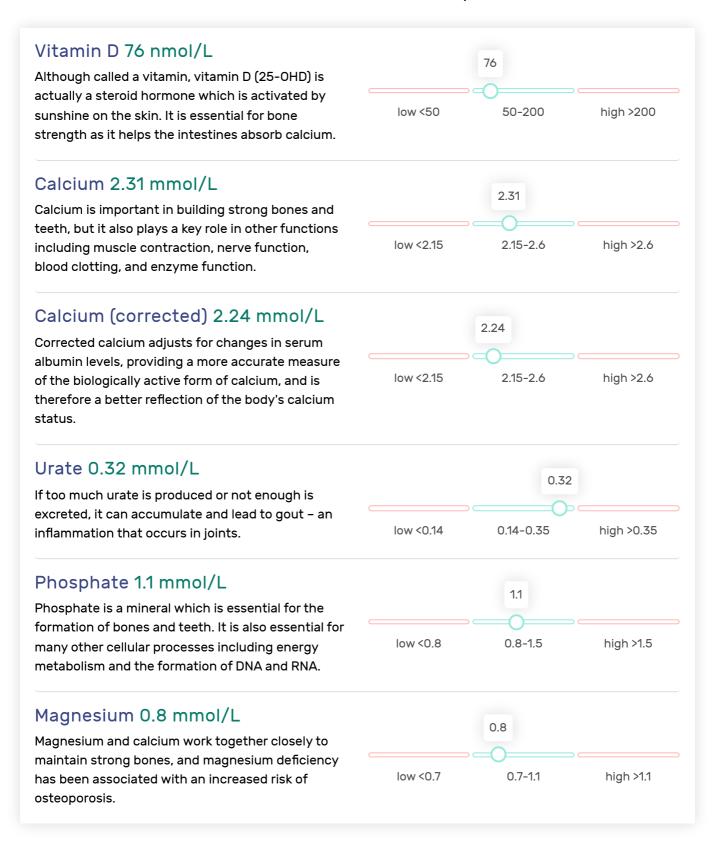


#### **Trace Minerals**



#### **Bone Health**

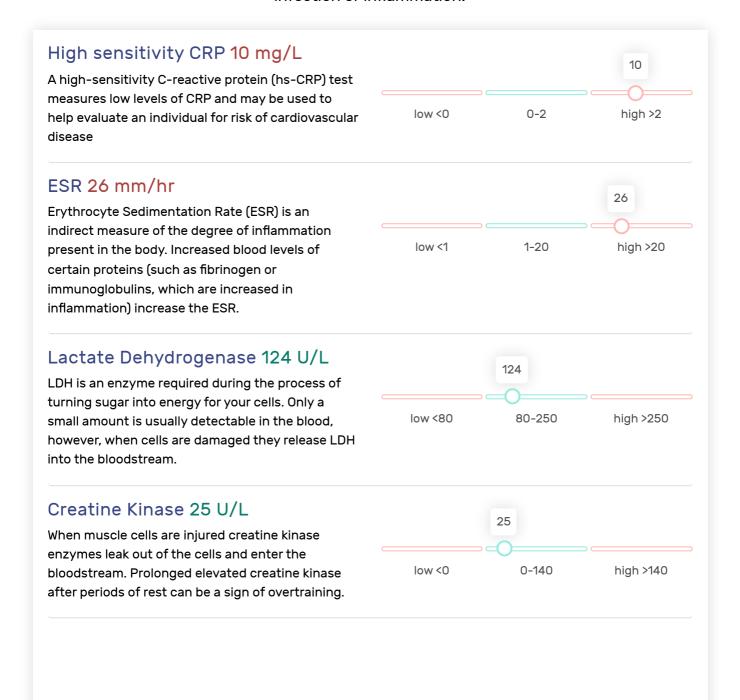
Your bone health markers are within the normal range and don't indicate a calcium or vitamin D deficiency.



#### Inflammation

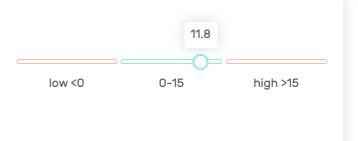
hsCRP levels above 2mg/L can be an indicator of increased cardiovascular disease risk. However note that elevated CRP it is often the first evidence of inflammation or an infection in the body - its concentration increases in the blood within a few hours after the start of infection or other inflammatory injury. The average of two CRP tests, ideally taken two weeks apart, produces a more stable estimate of this marker.

Your ESR levels are mildly elevated - this commonly occurs with inflammatory arthritis, anaemia and ageing. A rising ESR can mean an infection or inflammation.



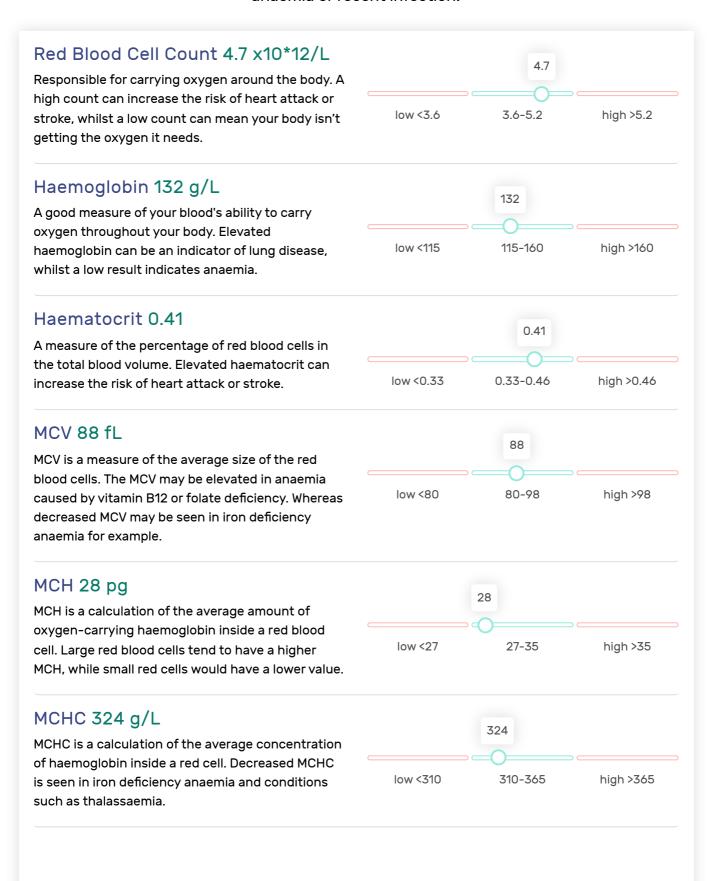
# Homocysteine 11.8 umol/L

An amino acid normally present in very small amounts in all cells of the body. Homocysteine is a product of methionine metabolism - one of the 11 'essential' amino acids that must be derived from the diet.



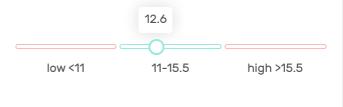
#### Full blood count with differential

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



#### RDW 12.6 %

RDW is a calculation of the variation in the size of your red blood cells. A high RDW value may indicate the presence of certain medical conditions, such as anaemia, liver disease, or vitamin B12 or folate deficiency.



#### White Blood Cell Count 9.6 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.



#### Eosinophils 0.19 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 0.5 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.



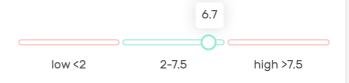
# Lymphocytes 2.2 x10\*9/L

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.



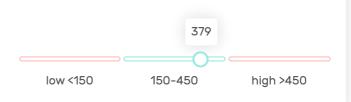
# Neutrophils 6.7 x10\*9/L

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.



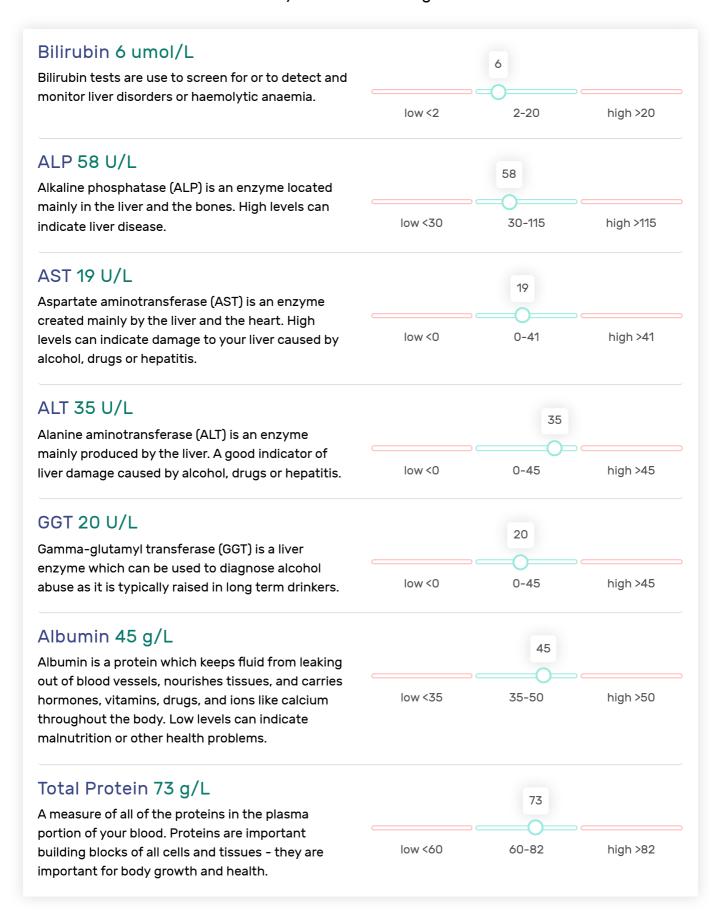
#### Platelet Count 379 x10\*9/L

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



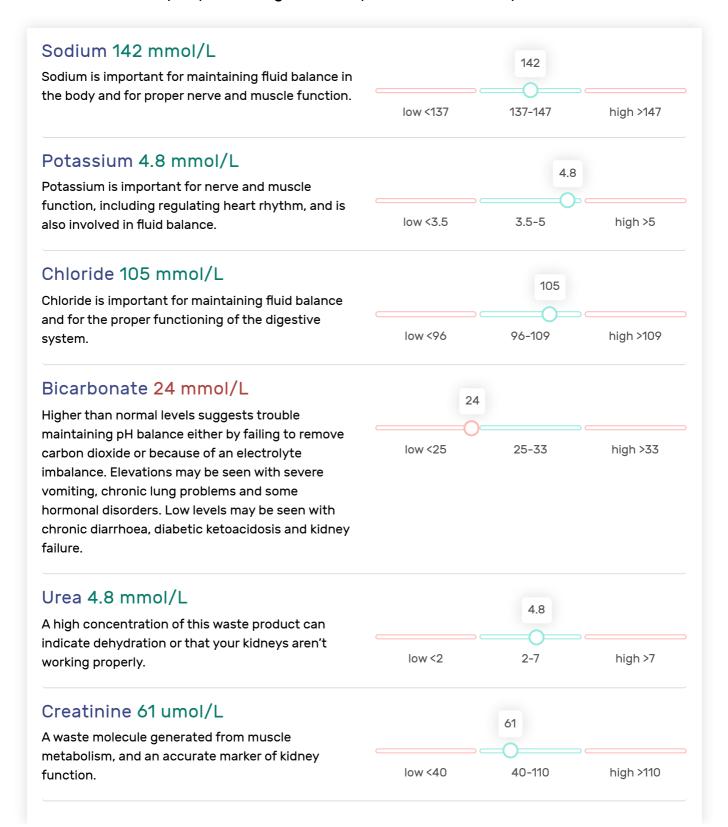
# Liver Function (LFTs)

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



# **Kidney Function**

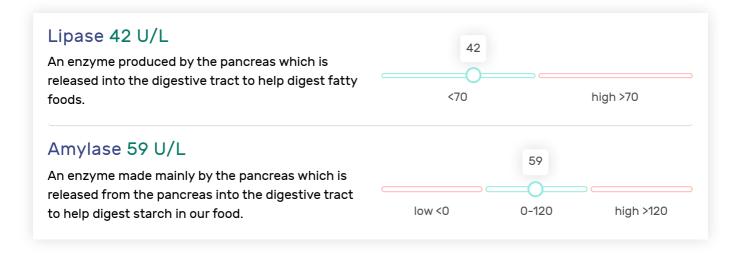
Your bicarbonate levels are lower than normal, which is of uncertain significance given your other test results are within the normal range. Low bicarbonate levels may be seen with chronic diarrhoea, diabetic and kidney issues. A repeat test may be reassuring, however we do sometimes see these isolated bicarbonates as 'artefacts' of the blood sampling and analysis process e.g if the sample were a little tricky to obtain.





#### **Pancreatic Function**

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



#### 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



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.

#### Elevated cortisol



Please consider repeating your morning cortisol test to determine whether diet or stress may have contributed to your elevated cortisol results. This test can be ordered from the personalised tests area of our website: https://www.i-screen.com.au/app/personalised-test. You may also want to follow up these results with your GP as a precaution.

#### **Consider Clinical Nutrition**



There is evidence that physical activity and losing weight if you need to may help your body respond better to insulin. Taking small steps, such as eating healthier foods and moving more to lose weight, can help reverse insulin resistance.

As such you may want to consider a teleconsult with our Clinical Nutritionist to discuss your health history and goals, and to develop a personalised treatment plan.

#### Awaiting further results



It is noted that you are awaiting the results of the stool test component of this health check which may provide insights into any health issues you may be experiencing. In the meantime, 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. Please contact us if you would like a copy of your lab report.