

Atlas Home Liver Function Test

The liver is a large organ of the body responsible for a wide range of vital functions including the breakdown of by-products of body metabolism and their excretion through the bile out into the intestine. A prime characteristic of failure in liver functions is inability to excrete bilirubin (a by-product of the breakdown of red blood cells). Excess Bilirubin in the body causes Jaundice (yellowing of the skin and the whites of the eyes). Jaundice is usually developed in cases of liver diseases such as Hepatitis, liver cancer and cirrhosis (a chronic disease that causes the scarring of liver and interferes with the normal functionality of the liver). It also appears due to obstructions in the biliary tract due to gallstone, infections or tumors which can restrict the movement of bilirubin into the intestine. Jaundice, however, is not exclusive to failures in liver functions. It can also be caused by excessive breakdown of Red Blood Cells (a condition common in newborns and known as Hemolysis). Excess Bilirubin in the body will eventually appear in the urine. Therefore, appearance of Bilirubin in Urine is a sign of liver failure. However, since the presence of bilirubin is also associated with hemolysis, Urobilinogen (a product of bilirubin reduction formed in the intestines by bacterial action) can be used to confirm cases of liver failure.

Atlas Home Liver Function Test provides a dip-and-read test strip to check for the presence of bilirubin and Urobilinogen in urine specimens as an aid in the diagnosis of liver function problems.



When to test:

- Jaundice: yellowing of the skin and the whites of the eyes.
- Pain in the right upper abdomen accompanied by pain in the back.
- Abdominal swelling.
- Weakness and loss of muscle mass.
- Light color of feces and/or dark color of urine.

Atlas Home Kidney Function Test

Kidneys work as filters that filter by-products and extra water from your blood and produces urine as a result. Common causes of kidney disease are diabetes, high blood pressure, poisons, certain drugs and cancer. Kidney failure means that the kidney will lose one or more of the following functions:

- **Filtering ability:** Normal nephrons act as barriers for red blood cells and large molecules such as proteins. Losing this ability, means that protein and/or RBCs are likely to be seen in urine. Since the protein is the first to appear, detecting protein in urine can be considered as diagnostic tool for kidney failure.
- **Concentrating ability:** After filtering, kidney will reabsorb almost 99% of the filtrate back to the blood to retain body water. Losing this ability means that the body will lose more water. Clear signs for this are the increased frequency of urinations and diluted urine. Urine specific gravity test will serve as a measure of how much the urine is concentrated.
- **By-products removing:** A major role of the kidneys is to help the body getting rid of metabolism waste products. The most famous are Urea and Creatinine. These two compounds are usually present in the urine at high concentrations. Having them at low level in urine means that they are not filtered and they are kept in blood.

Atlas Home Kidney Function Test provides a dip-and-read test strip to check for the presence of protein and the value of Creatinine and Specific gravity in urine specimens as an aid in the diagnosis of kidney function problems.



When to test:

- Pain or burning during urination.
- Frequent urge to urinate but passing only small amount of urine.
- Inability to control urine release.
- Pain or heaviness in your lower abdomen.
- Pain in your back just below the rib cage.

Atlas Home Urinary Tract Infection Test

Urinary Tract Infection (UTI for short) is a serious health problem affects millions of people each year. Normal urine is sterile; it contains fluids, salts and waste products, but it is free of bacteria, viruses and fungi. An infection occurs when microorganisms, usually bacteria from the digestive tract, cling to the opening of the urethra and begin to multiply. The infection will cause leucocytes, RBCs and/or nitrite to appear in urine.

Atlas Home Urinary Tract Infection Test provides a dip-and-read test strip to check for the presence of leucocytes, RBCs (Red Blood Cells) and nitrite in urine specimens as an aid in the diagnosis of UTI.



When to test:

- Painful urination.
- Blood in urine.
- Blood in urine.
- Inability to urinate despite the urge.
- Frequent need to urinate.
- General discomfort.

Atlas Home Diabetes Test

Diabetes is a common disease caused by high sugar (glucose) level in blood. This condition is called hyperglycemia, and is caused by reduced insulin secretion or action. Insulin is a hormone that is secreted from the pancreas and regulates sugar level in blood. As the level of glucose increases in the blood, it starts to appear in urine. Due to the fact that the glucose remains in the blood, the cell starts to use the stored fat as a source of energy. Ketone is produced as a result of the breakdown of lipids and it starts to accumulate in blood and then appear in urine. So, measuring the presence of glucose and ketone in urine can be used as a tool to check for diabetes.

Atlas Home Diabetes Test

provides a dip-and-read strip to check for the presence of glucose and ketone level in urine specimens as an aid in the diagnosis of diabetes.



When to test:

- Weight loss.
- Feeling hungry or thirsty frequently.
- Feeling tired easily.
- Slow healing of injuries and sores.
- Lack of feeling in hands or feet.



Atlas Home Ovulation Test

Ovulation is the release of an egg from the ovary. In order for pregnancy to occur, sperm must fertilize the egg within 24 hours after its release. Immediately prior to ovulation, the body produces a large amount of Luteinizing Hormone (LH), which triggers the release of ripened egg from the ovary. This is known as "LH surge" and is usually takes place in the middle of the menstrual cycle signaling that ovulation is most likely to occur in the next 24-36 hours. This period is considered to be the most fertile time during which the pregnancy is most likely to occur.

Atlas Home Ovulation Test provides a rapid visual test for the detection of LH surge in urine to aid in the detection of the most fertile time in your period and hence improves the chances for a woman to become pregnant.



Atlas Home Menopause Test

During fertility age, women experience regular menstruation cycles (bleeding) as a positive indication of their fertility and normal health conditions. The regularity of these menstruation cycles is maintained by the balance of four hormones, namely Estrogen, Progesterone, Follicle Stimulating Hormone (FSH) and Luteinizing Hormone (LH). Menstruation cycles normally stop during pregnancy but also become less regular (a condition known as menopause) with age when the body fails to maintain the balance in the levels of these hormones. FSH exists in higher levels than normal during perimenopause and menopause. Detection of high FSH level in urine is commonly used as a tool to determine perimenopause and menopause.

Atlas Home Menopause Test provides a rapid visual test for the detection of high levels of FSH in urine to aid in the detection of menopause.



Atlas Home Pregnancy Test

When a woman becomes pregnant, her body produces a special pregnancy hormone known as Hcg (human Chorionic Gonadotropin). With time, the level of Hcg hormone increases in blood and starts to appear in urine.

Atlas Home Pregnancy Test provides a rapid visual test for the detection of Hcg in urine as an aid in the detection of pregnancy as early as the first day of a missed period.



Atlas Home Vaginal PH Test

A normal vaginal pH level is between 3.8 and 4.5, which is moderately acidic. However, what constitutes a "normal" pH level can vary slightly based on your stage of life.

A high vaginal pH level — above 4.5 — provides the perfect environment for unhealthy bacteria to grow. Having a high vaginal pH puts you at risk for these infections:

- Bacterial vaginosis (BV).
- Trichomoniasis (trich).

Atlas Home Vaginal pH Test is a reliable, hygienic, pain-free method of determining the vaginal pH level.



Atlas Medical Home Test Kits



Test your body today for a healthier future



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