



**Evidence-Based  
Medical Testing  
& Analysis**

## What We Do

Yayasan (not-for-profit) BSI International Clinics is evidence-based in medical analysis, and our one-of-a-kind natural holistic Nutraceuticals and therapies are derived from centuries of successful alternative medicinal practice. Our team of dedicated medical professionals draw on ancient therapies and modern scientific research to create a targeted, more accurate, immune boosting, natural healing process – custom prescribed for each patient.

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These optional, additional test packages may include:

- Tumor Marker Tests
- Heavy Metals Analysis Testing
- Thyroid And Pituitary Panel
- STD Testing Package
- Comprehensive Female Hormone Panel
- Comprehensive Male Hormone Panel
- Comprehensive Stool Analysis



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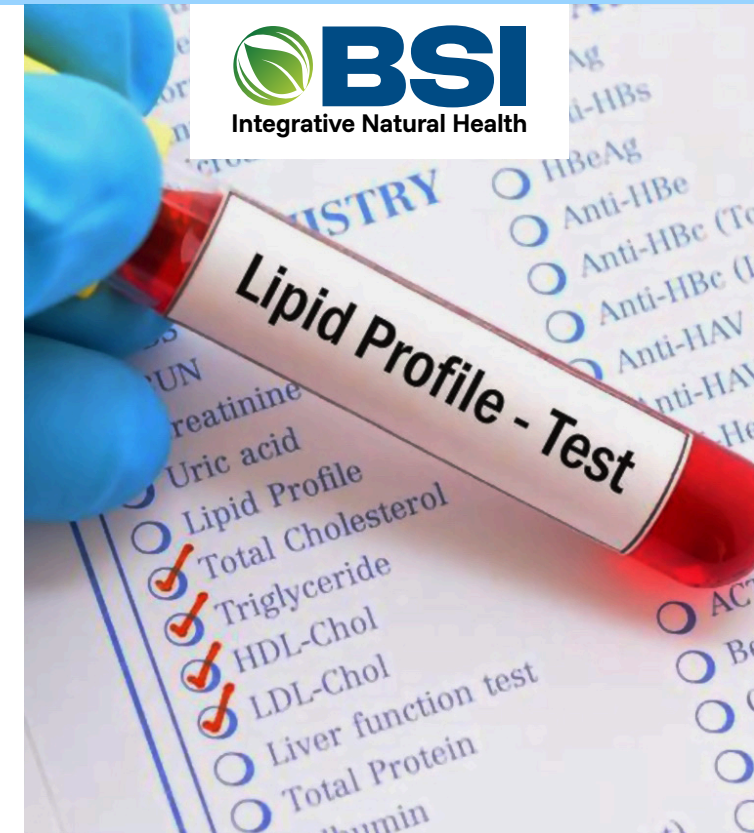
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# Lipid Profile Testing

Cholesterol, Triglycerides,  
High-density lipoprotein (HDL),  
Low-density lipoprotein (LDL).

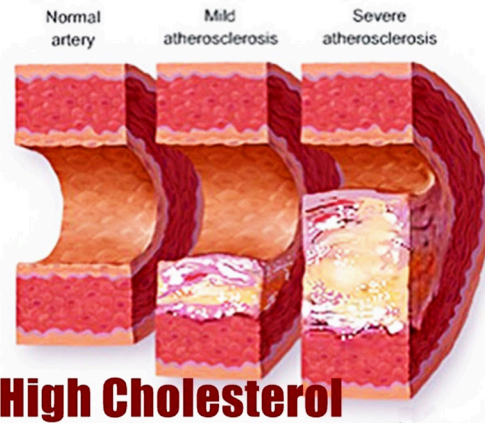
In addition to basic testing, for complete analysis.

**Cholesterol Total:** Total blood (or serum) cholesterol score. This component of your test results is actually a composite of different measurements. Your total blood cholesterol score is calculated by adding your HDL and LDL cholesterol levels, plus 20 percent of your triglyceride level.

**Triglycerides:** The most important part of this test. Measures the level of triglycerides in the blood. Normal triglyceride levels in the blood are less than 150 mg per deciliter (mg/dL). Triglyceride levels can be controlled to some extent by lifestyle modifications and, when necessary, medications.

**High-density lipoprotein (HDL):** HDL cholesterol is often called “good” cholesterol. The test for HDL cholesterol measures the amount of HDL-C in blood. Cholesterol is found in all the cells of the body and is instrumental in body functions, such as building cells and very importantly hormone production. HDL-C can be low in male subjects who are obese and sedentary, in those who smoke cigarettes, and in those who have diabetes mellitus. Uremia is also associated with lower HDL-C. Exercise, appropriate diet can increase HDL-C.

**Low-density lipoprotein (LDL):** This test measures the level of Low-Density Lipoprotein Particles (LDLP) in a blood sample. LDL is also known as the “bad” cholesterol. Generally, higher LDL indicates a greater risk of heart disease, because, under certain conditions, it can cause hardening of the arteries (atherosclerosis).



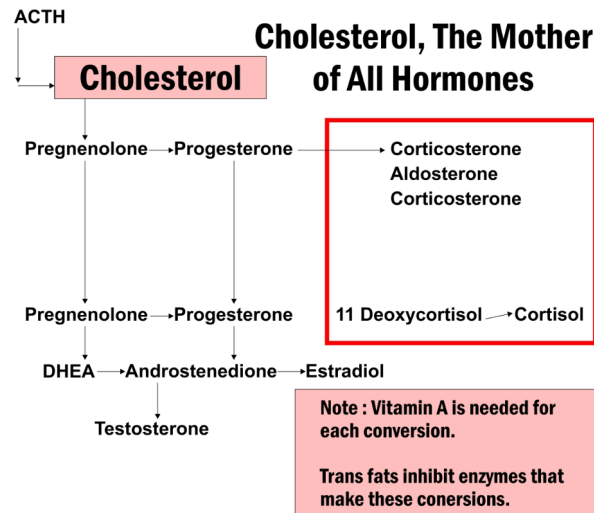
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It's misleading to call cholesterol an artery-clogging fat because cholesterol performs a lot of important functions. This waxy substance helps produce hormones, strengthen cell membranes and utilize vitamin D, and is a critical component of bile (produced in the liver) which is key to proper digestion. It also plays a role in cognitive function, helping to form memories. A lack of cholesterol decreases both brain and heart function. Most of the cholesterol in the bloodstream is, in fact, created by the body, not by diet. Still, this doesn't mean skipping fruit in favor of steak. To keep cholesterol levels under 200 milligrams per deciliter, or mg/dL, it's essential to exercise, eat a balanced diet, maintain a healthy weight.

- Fasting:** No
- Specimen:** Blood
- Results:** 1-3 Business Days
- Also suggested:**
  - 1) Thyroid Pituitary Panel
  - 2) Male or Female Hormone Panel



**Licensed  
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# BSI International Labs

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Integrative Natural Health

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# STD Package Testing



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# Sexually Transmitted Disease Testing

All diseases below tend to be sexually transmitted.  
Full Testing Includes:

- Chlamydia
- Gonorrhea
- Syphilis
- Herpes Simplex Virus I (HSV-1 IgG)
- Herpes Simplex Virus II (HSV-2 IgG)
- HIV I & II Rapid Test (only)
- Trichomonas
- Candida
- Other Unspecified Fungal Diseases
- Mobilincus
- Gardnerella
- Staphylococcus (non-beneficial strains)
- Clue Cell
- Non-beneficial Bacterial Strains:  
    Extracell, Intracell, Intercell
- Other Unspecified Fungal Diseases
- Hepatitis A, B, C, D, E
- Peggancy test (Optional and additional fee).



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**Chlamydia & Gonorrhea** are similar and both extremely common. Almost 75% of female infections and 50% of male infections do not have symptoms.

**Syphilis** False positive results may occur due to systemic lupus, leprosy, brucellosis, atypical pneumonia, typhus, yaws, pinta, or pregnancy.

**Herpes Simplex Virus I (HSV-1 IgG)** is more commonly associated with the mouth. Specific typing is not usually required for diagnosis or treatment. The herpes simplex virus is transmitted by direct contact with a sore or the body fluid of an infected individual.

**Herpes Simplex Virus II (HSV-2 IgG)** is more commonly associated with genital tract and neonatal infections, . Specific typing is not usually required for diagnosis or treatment. The herpes simplex virus is transmitted by direct contact with a sore or the body fluid of an infected individual.

**Trichomonas.** Very common, caused by a protozoan parasite called Trichomonas vaginalis. Although symptoms of the disease vary, most people who have the parasite cannot tell they are infected.

**Candida / Candidiasis.** The official term for the yeast STD, is caused by a body out of balance, sexual transmission, or transmission through infected touch. In other words, it's quite easy to get a genital yeast STD. This applies to both men and women.

**Other Fungal / Yeast (unspecified) Diseases,** which may include if observed; Chancroid, Donovanosis, Enteritis, Proctocolitis, Meningitis, Shigellosis. These fungal STDs are aquired through vaginal, oral, or anal sex. Even just touching can spread these infections to another person or to another site on one's own body.

**Mobilincus.** Mobiluncus is an anaerobic, Gramvariable, curved bacillus, associated with bacterial vaginosis, also found in the bowel. Can be related to the use of the intrauterine contraceptive device (IUD). Mobiluncus tend to symbiotic with Gardnerella vaginalis, and some strains are antibiotic-resistant.

**Gardnerella Vaginalis.** is the most common cause of bacterial vaginitis in the sexually active mature patient. Complaints may include a malodorous, non-irritating discharge, and gray-white secretions.

**Staphylococcus (non-beneficial strains).** S.aureus, or "staph", is the same bacteria responsible for TSS, or Toxic Shock Syndrome, which is associated with the use of highly absorbent tampons. Antibiotic-resistant Staph strains are termed as MRSA. MRSA is primarily responsible for causing skin infections, pneumonia, soft tissues infections, and if left untreated can cause sepsis.

**Clue Cell.** Vaginal epithelial cell, thickly coated with coccobacillary organisms. Clue cells are a hallmark of bacterial vaginosis.



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**Non-beneficial Bacterial Strains.** Extracell, Intracell, Intercell. Further identification of bacterial types, identifying if a bacteria is on the outside of a cell (Extracell) the inside of a cell (Intercell), or connecting cells together (Intracell).

**Hepatitis A, B, C, D, E:** Hepatitis means inflammation of the liver. While we usually think of hepatitis A to E viruses, however anything that causes inflammation or damage to the liver can be considered as a form of hepatitis.

**Pregnancy test** (Optional and additional fee).

**Fasting:** No

**Specimen:** Blood, urine, and vaginal swab or penile swab. The patient should not have urinated for at least one hour prior to specimen collection. Female patients should not cleanse the labial area prior to providing the specimen. Women should not be menstruating or recently finished menstruation for this test.  
**Requirements:** Early morning urine is the best for more accurate test results. Avoid eating seafood for 48 hours before being tested.

**Results:** 1-3 Business Days

**Also suggested:** 1) Hormone Panel 2) Stool Analysis

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# BSI International Clinics

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# Thyroid & Pituitary Panel



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# Thyroid & Pituitary Panel

Tests Included:

**Thyroid Stimulating Hormone (TSH):** The best way to initially test thyroid function is to measure the TSH level in a blood sample. A high TSH level indicates that the thyroid gland is failing because of a problem that is directly affecting the thyroid (primary hypothyroidism). The opposite situation, in which the TSH level is low, usually indicates that the person has an overactive thyroid that is producing too much thyroid hormone (hyperthyroidism).

Occasionally, a low TSH may result from an abnormality in the pituitary gland, which prevents it from making enough TSH to stimulate the thyroid (secondary hypothyroidism). In most healthy individuals, a normal TSH value means that the thyroid is functioning normally.

**Active Thyroid Hormone (Free T3):** This test is used to evaluate thyroid function. It is primarily used to diagnose hyperthyroidism. It is also used to assess abnormal binding protein disorders and to monitor thyroid replacement and suppressive therapy.

**Triiodothyronine (T3 or T3RU):** A T3 resin uptake (also called a T3 uptake or T3RU) is performed as part of an evaluation of thyroid function. The thyroid is a gland in the neck that produces the hormones that help regulate many body processes, including growth, energy balance, body temperature, and heart rate. Thyroid function involves the interaction of many hormones, including triiodothyronine (T3) and thyroxine (T4). Both of these hormones exist in two forms in the blood. The more abundant forms are bound to a carrier protein called thyroxin-binding globulin (TBG), which helps transport the hormones through the body. The less abundant forms circulate unattached or "free." Only the free forms of the thyroid hormones (free T4 and free T3) are available to affect body processes. The T3 resin uptake is used by doctors to estimate the amount of TBG in the blood, and how much T4 and T3 in the blood is free form and available to affect the body.

**Unbound Thyroxin (Free FT4):** This test is used to evaluate thyroid function in individuals who may have protein abnormalities that could affect total T4 levels. It is used to evaluate thyroid function and monitor replacement and suppressive therapy.

**Thyroxine Total (T4):** A T4 test measures the blood level of the hormone T4, also known as thyroxine, which is produced by the thyroid gland and helps control metabolism and growth. The T4 test is performed as part of an evaluation of thyroid function. T4 measures the entire amount of thyroxine in the blood, including the amount attached to blood proteins that help transport the hormone through the bloodstream.



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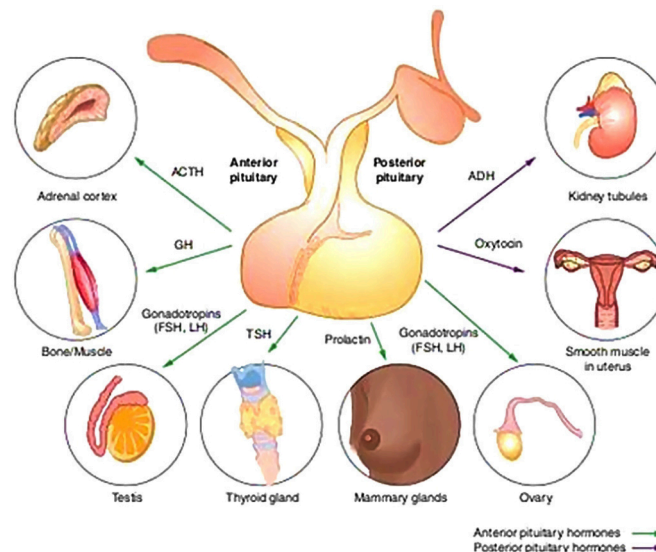
**Intact Parathyroid Hormone Level (IPTH):** Parathyroid Hormone test measures the level of parathyroid hormone (PTH) in the blood. PTH, also known as parathormone, is made by the parathyroid glands. These are four pea-sized glands in the neck. PTH controls the level of calcium in the blood. Calcium is a mineral that keeps bones and teeth healthy and strong. It's also essential for the proper functioning of nerves, muscles, and heart.

**Free Thyroxine Index (T7 / FTI):** FTI stands for the Free Thyroxine Index and is also sometimes referred to as T7. It is a calculated value determined from the T3 uptake test and total T4 test and provides an estimate of the level of free T4 in the blood.

**Fasting:** No  
**Specimen:** Blood  
**Results:** 1-3 Business Days  
**Also suggested:** Hormone Panel



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# Tumor Marker Testing



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## Tumor Marker Test

Only tests applicable to a patient's condition will be given, all tests below are rarely needed by one patient. Priced per test. Results time varies. Before, during, and after therapy, to detect cancer antigens in the blood, or to monitor tumor metastasis, such as:

**AFP (Alpha-fetoprotein):** is a tumor marker designed to help detect and diagnose cancers of the liver, testicles, and ovaries. This test is often ordered to monitor people with chronic liver diseases such as cirrhosis, chronic hepatitis B or hepatitis C because they have an increased lifetime risk of developing liver cancer. A healthcare practitioner may order an AFP test, along with imaging studies, to try to detect liver cancer when it is in its earliest and most treatable stages.

**CA-125 (Cancer Antigen CA-125):** CA-125 is a protein present on the surface of most ovarian cancer cells. CA-125 is used to monitor treatment or detect recurrence of ovarian cancer. It is not typically used as a general screening test because levels can be elevated in other conditions such as normal menstruation, pregnancy, endometriosis, and pelvic inflammatory disease. CA 125 can also be detected in other cancers such as pancreas, liver, colon, breast, endometrial, fallopian tube, gastrointestinal, and lung. CA 125 is not intended as a screening test.

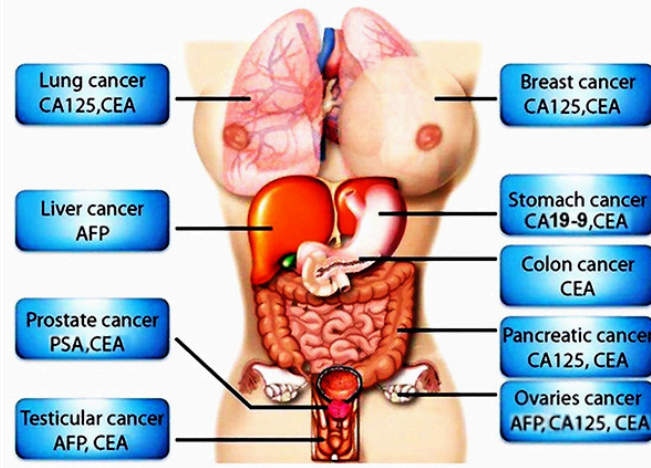


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**CA15-3 (Cancer Antigen CA 15-3):** CA 15-3 is produced by cells in the breast and increased levels can be associated with breast cancer. Rarely increased in early breast cancer, it may be used to detect recurrence of cancer in women following treatment or mastectomy and to monitor treatment for women with advanced breast cancer. However, adenocarcinomas of the ovary, lung, colon, and pancreas also express elevated CA 15-3 levels. Non-cancerous conditions sometimes associated with elevated CA 15-3 include benign breast or ovarian disease, endometriosis, pelvic inflammatory disease, and hepatitis. Pregnancy and lactation are also related to high CA 15-3 levels.

**CA19-9 (Cancer Antigen CA 19-9):** For patients with digestive tract or intra-abdominal carcinomas such as colorectal cancer, pancreatic cancer, stomach cancer and bile duct cancer. Not all pancreatic cancer patients will test positive with this test

**CA 72-4 (Cancer Antigen 72-4):** The most sensitive of tumor markers for digestive cancers. CA 72-4 is generally a marker of advanced disease, rather than a marker for screening for the detection of early disease. After curative healing, CA 72-4 could be used to monitor recurrence or metastasis in those cases that had elevated levels prior to surgery. Elevated levels are preferentially found in gastric cancer patients, but can also be found in certain benign diseases like pneumonia, pancreatitis, liver cirrhosis and ovarian cysts. The most important advantage of CA 72-4 is its particularly high diagnostic specificity for benign..



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**CEA (Carinoembryonic Antigen):** is a measurement of blood plasma. It is very non-specific and can be increased in many types of cancer, gastrointestinal, colorectal, ovarian, bladder, cervical, stomach, kidney, lung, pancreatic, liver, prostate, thyroid, melanoma, lymphoma, and breast. People with non-cancerous conditions, such as cirrhosis or peptic disease, or inflammatory intestinal conditions such as colitis or diverticulitis may also have increased levels.

**SCC (Squamous Cell Carcinoma Antigen):** First identified in cervical cancer. It is a marker for squamous cell cancers, which can occur in the cervix, head and neck, lung, and skin. Levels of SCC can be used as an aid to stage the carcinoma and to determine the response to the treatment.

Other Tumor Marker tests not listed above may also be available on request.

**Fasting:** No

**Specimen:** Blood

**Results:** 3 Business Days

**Also suggested:** 1) Thyroid Pituitary Panel 2) Lipids 3) Hormones



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# Stool Analysis Testing



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## Tumor Marker Test

The Importance of the Comprehensive Stool Analysis. Many chronic disorders result from digestive problems and inadequate nutrient absorption. Even with a very complete and balanced diet, nutrients have to be properly digested to transport vitamins to different parts of the body. Proper gastrointestinal functioning also ensures elimination of toxic molecules, microbes and undigested food particles from the body, which helps prevent infections, toxic reactions, allergies, and other health problems. The role of abnormal intestinal microorganisms in gastrointestinal disorders is widely known. However, research also shows the relationship between the gastrointestinal and other systems in the body, such as the neurological, hepatic, and immune systems. For example, excessive yeast (a cause of excessive gas) produces toxic byproducts, which can pass through the blood-brain barrier, and alter neurological functioning, causing 'brain fog,' mood problems, and learning difficulties. Exposure to unwanted colon pathogens can cause the formation of toxic antibodies that can interfere with the brain in predisposed individuals, resulting in motor function problems. Excess of toxic by-products of certain bacteria can interfere with neurotransmitters and cause fatigue. Beneficial bacteria, on the other hand, helps with vitamin absorption and infection prevention.



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**Comprehensive Stool Evaluation will give you specific information about the following digestive criteria:**

- Digestion of nutrients (triglycerides, muscle fibers, vegetable fibers, lipids)
- Absorption of nutrients. Elimination efficiency of undigested food residues and toxins
- Levels of healthy bacterial flora versus potentially pathogenic bacteria species, yeast, and parasites
- Indices and markers of intestinal immune function
- Indices and markers of inflammation
- Indices and markers of intestinal physiology and of intestinal health (presence of RBC, WBC, mucus, occult blood, fecal pH, and short chain fatty acids analysis)

**We recommend Fecal Testing for patients with:**

- ADD / Anxiety
- Arthritis, Articular, or Muscular Pain
- Autism Spectrum Disorders
- Behavioral Disorders
- Chronic Fatigue & Fibromyalgia
- Depression
- Diarrhea, Constipation, Abdominal Distension
- Food Allergies
- Inflammatory Bowel Disease
- Irritable Bowel Syndrome
- Leaky Gut Syndrome
- Skin Conditions & Acne
- Tic Disorder / Tourette's Syndrome
- Vitamin or Mineral Deficiencies
- Weight Changes
- Yeast Infections

**Fasting:** No

**Specimen:** Feces

**Results:** 1-3 Business Days

**Also suggested:**

- 1) Penile or Vaginal Culture / Exam.
- 2) STD Panel.
- 3) Hormone Panel.
- 4) Thyroid Pituitary Panel.



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Microscopic photos of results are provided with the report, with prescription, if needed.



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# Comprehensive Female Hormone Panel



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# Comprehensive Female Hormone Panel

## Female Sex Hormones Combinations Tests

- Albumin (hormone transport) (optional)
- Testosterone Total
- Testosterone Free
- Free testosterone percentage
- Bio-available testosterone
- Estrogen / Estradiol
- Progesterone
- Estrogen / Progesterone Ratio
- Luteal phase length calculation (if needed)
- Dehydroepiandrosterone sulfate (DHEA) (Adrenal glands product)
- 17-OHP (Adrenal glands product)
- Cortisol Stress Hormone (optional)
- Cortisol / DHEA Ratio (optional)
- Follicle-Stimulating Hormone (FSH)
- Luteinizing (LH)
- FSH / LH Ratio
- Sex Hormone-Binding Globulin (SHBG)
- Prolactin (PRL)



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**Estrogen / Estradiol:** Develops and maintains both the reproductive system and female characteristics, such as breasts and pubic hair. Estrogen total is used to check concerns with puberty, fertility, menopause, and other conditions. Plays an important role in the regulation of testosterone, several brain functions, bone health, skin health, sexual function/libido, cardiovascular function, and cholesterol regulation. Estrogen must be in proper balance with testosterone, a balance that can change with age.

**Progesterone:** A precursor to numerous hormones, including estrogen and testosterone. Progesterone stimulates and regulates various body functions, such as ovulation, and plays a major role in maintaining pregnancy. It is also used in combination with estrogen as part of hormone replacement therapy, to help control the amount of estrogen going into the body. Enhances libido, improves mood, controls weight, increases muscle mass, increases energy, keeps bones strong, and more.

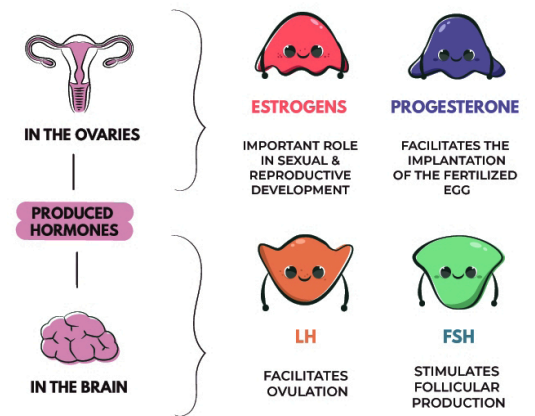
**Testosterone Total: (bound testosterone):** The grand total of all testosterone available in the bloodstream. 98% proportion is normal for bound testosterone 2% that's left is known as "free testosterone." For example, a patient may not need more testosterone. They may simply need less of substances that tend to convert testosterone into other substances such as estrogen (associated with soy products). This is why it may be critically important to test for free testosterone levels and not just total testosterone alone.

**Testosterone Free (free testosterone):** Enables testosterone functionality, which includes cell replication in bones and muscles. Too little free testosterone can lead to poor muscle development, irritability, lowered sex drive, and more. Both men and women can have health problems because of low or high levels of testosterone. Women with high levels of testosterone may develop polycystic ovary syndrome (PCOS).

**Dehydroepiandrosterone sulfate (DHEA):** Also known as androstenedione. A precursor for sex steroids including estrogen and testosterone. Also plays an important role in immune function and stress response. Regulates the balance between estrogen and testosterone. An important test to determine proper function of the adrenal glands, where DHEA is produced.

**17 OHP.** Produced in the adrenal cortex, 17 hydroxyprogesterone, also known as the stress hormone, is the basis of the cortisol hormone, important for immunities and metabolism. A higher amount of 17 OHP indicates the lower production of cortisol and vice versa.

**Luteinizing (LH):** Also known as lutropin. Produced and released in the anterior pituitary gland. Triggers the production and secretion of androgens. Regulated by estrogen and plays a crucial role in the menstrual cycle. LH is necessary for stimulation of the ovarian follicles in the ovary that are responsible for the production of estrogen.



**Follicle-Stimulating Hormone (FSH):** A hormone released by the pituitary (master) gland in the brain. Stimulates the growth of ovarian follicles in the ovary before the release of an egg from one follicle at ovulation. It also increases estrogen production during certain cycles.

**Sex Hormone-Binding Globulin (SHBG):** A protein made in the liver, binds tightly to 3 sex hormones: estrogen, dihydrotestosterone (DHT), and testosterone. It's the main transport for sex hormones in the body.

**Prolactin (PRL):** Secreted by the pituitary gland. Appropriate prolactin levels play a critical role in overall health. In women who are pregnant or nursing, increased levels are necessary for adequate milk production, however, if levels are raised in the absence of pregnancy or breast feeding, a serious health condition may be the cause. Higher levels of prolactin have been associated with tumors involving the lungs, pituitary gland, and kidneys.

**Master Glands Hormone Combinations Tests** (These control the sex hormones, and all interrelated bodily functions)

- TSHs (Thyroid-stimulating hormone)
- T3 (Total Triiodothyronine)
- FT3 (Free Triiodothyronine)
- T4 (Total Thyroxine)
- FT4 (Free Thyroxine)
- FT3 / FT4 Ratio
- IPTH (Parathyroid hormone)

**Fasting:** No

**Specimen:** Blood

**Results:** 1-3 Business Days

**Also suggested:** 1) Vaginal Culture / Exam 2) Thyroid Pituitary Panel 3) STD Panel

# BSI International Labs

Licensed In-House Laboratory



**Evidence-Based  
Medical Testing  
& Analysis**

## What We Do

Yayasan (not-for-profit) BSI International Clinics is evidence-based in medical analysis, and our one-of-a-kind natural holistic Nutraceuticals and therapies are derived from centuries of successful alternative medicinal practice. Our team of dedicated medical professionals draw on ancient therapies and modern scientific research to create a targeted, more accurate, immune boosting, natural healing process – custom prescribed for each patient.

# BSI International Clinics

Integrative Natural Health

In addition to BSI Basic 133 Tests Analysis, the patient may request, or the health care provider may also request some of the following tests. Most of these additional test packages require Level 2 Testing and Analysis in advance (as per above).

These optional, additional test packages may include:

- Tumor Marker Tests
- Heavy Metals Analysis Testing
- Thyroid And Pituitary Panel
- STD Testing Package
- Comprehensive Female Hormone Panel
- Comprehensive Male Hormone Panel
- Comprehensive Stool Analysis



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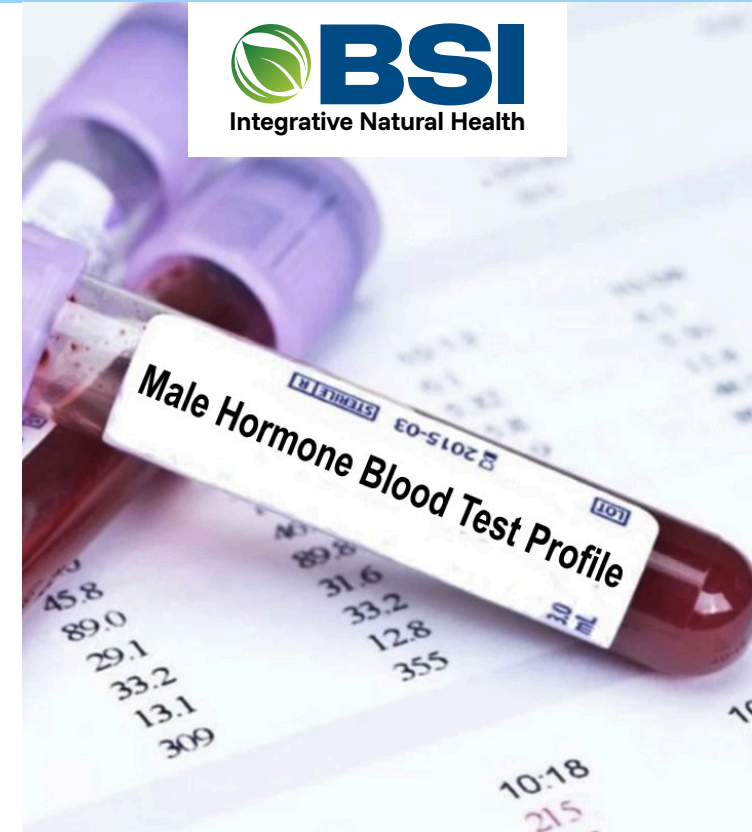
[www.bsi.international](http://www.bsi.international)  
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**JIMBARAN** Jl. Raya Uluwatu, GWK Park,  
Revayah Plaza, Suite A1, Ungasan

**CANGGU** Jl. Karang Suwung No. 12,  
Tibubeneng, Canggu

**UBUD** Jl. Raya Sanggingan No. 21,  
Ubud (Near Neka Museum)

# Comprehensive Male Hormone Panel



BSI International uses evidence-based testing, analysis and treatment protocols to provide individualized Integrative Natural Medicines & Therapies. We help patients reach optimal levels of health and vitality through our Natural IV Therapies, Oral Nutraceuticals and Traditional Tonic Programs.

*We're on your side, here to help*

# Comprehensive Male Hormone Panel

## Male Sex Hormones Combinations Tests

- Albumin (hormone transport) (optional)
- Testosterone Total
- Testosterone Free
- Free testosterone percentage
- Bio-available testosterone
- Estrogen / Estradiol
- Progesterone
- Estrogen / Progesterone Ratio
- Luteal phase length calculation (if needed)
- Dehydroepiandrosterone sulfate (DHEA) (Adrenal glands product)
- 17-OHP (Adrenal glands product)
- Cortisol Stress Hormone (optional)
- Cortisol / DHEA Ratio (optional)
- Follicle-Stimulating Hormone (FSH)
- Luteinizing (LH)
- FSH / LH Ratio
- Sex Hormone-Binding Globulin (SHBG)
- Prolactin (PRL)



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**Testosterone Total (bound testosterone):** The grand total of all testosterone available in the bloodstream. 98% proportion is normal for bound testosterone 2% that's left is known as "free testosterone." For example, a patient may not need more testosterone. They may simply need less of substances that tend to convert testosterone into other substances such as estrogen (associated with soy products). This is why it may be critically important to test for free testosterone levels and not just total testosterone alone.

**Testosterone Free (free testosterone):** Evaluate testicular function in clinical states where the testosterone binding proteins may be altered (obesity, cirrhosis, thyroid disorders). Enables its functionality, such as cell replication in the bones and muscles. Free testosterone is also responsible for secondary sexual characteristics facial hair and a deeper voice. Too little free testosterone can lead to poor muscle development, irritability, lowered sex drive, erectile dysfunction, and more.

**Estrogen / Estradiol:** Testosterone will begin to convert to estrogen in men as they age due to the aromatase reaction. Aromatase is found mostly in fat cells, so the more body fat a man has, especially in the mid section, the higher his estrogen. Plays an important role in the regulation of testosterone, several brain functions, bone health, skin health, sexual function/libido, cardiovascular function, and cholesterol regulation. Must be in proper balance with testosterone.

**Progesterone:** A precursor to numerous hormones, including testosterone, the primary male sex hormone. Powerful counter-balance for estrogen. Progesterone for men is essential. Low levels can often result in lack of sex drive and high body fat. Men produce approximately 5 to 15 mg of progesterone in their testicles each day. Enhances libido, improves mood, controls weight, increases muscle mass, increases energy, keeps bones strong, and make erections strong, and more.

**Dehydroepiandrosterone sulfate (DHEA):** Also known as androstenedione. A precursor for sex steroids including estrogen and testosterone. Also plays an important role in immune function and stress response. Regulates the balance between estrogen and testosterone. An important test to determine proper function of the adrenal glands, where DHEA is produced.

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## Male Testosterone Production With Age



**Follicle-Stimulating Hormone (FSH):** A hormone released by the pituitary (master) gland in the brain. Stimulates the growth of ovarian follicles in the ovary before the release of an egg from one follicle at ovulation. It also increases estrogen production during certain cycles.

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**Prolactin (PRL):** Secreted by the pituitary gland. In men it stimulates nerve cells production, boosts immunities induces anti-cancer responses. Higher levels of prolactin have been associated with tumors involving the lungs, pituitary gland, and kidneys. Involved in eating, mating, and stimulation of sperm production. Associated with erectile dysfunction, gynecomastia (enlarged male breasts) and metabolic syndrome (high blood pressure and sugar, and enlarged abdomen).

**Prostate specific antigen (PSA)** is a protein made only in the prostate gland. PSA is produced by normal, abnormal and cancerous prostatic tissue. There are no normal levels of total PSA for men of any age. PSA is released by the prostate into the semen where it acts to liquefy the semen following ejaculation. There is controversy regarding high levels of PSA as indicators of prostate cancer. High levels may also simply indicate a need for ejaculation.

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- IPTH (Parathyroid hormone)

**Fasting:** No

**Specimen:** Blood

**Results:** 1-3 Business Days

**Also suggested:** 1) Penile Culture / Exam 2) Thyroid / Pituitary Panel 3) STD Panel.

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[medical@bsi.international](mailto:medical@bsi.international)

**JIMBARAN** Jl. Raya Uluwatu, GWK Park,  
Revayah Plaza, Suite A1, Ungasan

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Tibubeneng, Canggu

**UBUD** Jl. Raya Sanggingan No. 21,  
Ubud (Near Neka Museum)

# Heavy Metals Testing



BSI International uses evidence-based testing, analysis and treatment protocols to provide individualized Integrative Natural Medicines & Therapies. We help patients reach optimal levels of health and vitality through our Natural IV Therapies, Oral Nutraceuticals and Traditional Tonic Programs.

*We're on your side, here to help*

# Heavy Metals Analysis Testing

For recent and on-going exposures, not long-term past exposures.

This is in addition to Basic Testing, which includes microscopic heavy metals observation of the blood.

These metals may enter the body through food, water, air, or skin absorption. Heavy metal toxicity can result in damaged or reduced mental and central nervous function, lower energy levels, and damage to blood composition, lungs, kidneys, liver, and other vital organs. Longterm exposure may result in the physical, muscular, and neurological degenerative processes that mimic Alzheimer's disease, Parkinson's disease, Muscular Dystrophy, heart arrhythmia, Multiple Sclerosis, and many more.

Heavy metal exposure is on the rise. Common sources include cigarettes / vaping, all forms of food, well and public water, vaccinations, dental fillings, medicines, cosmetics, and air / land / water pollution.



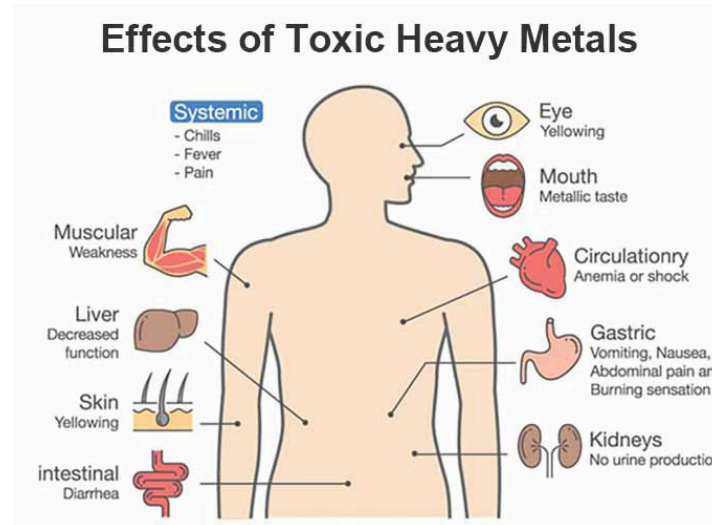
Licensed In-House Laboratory

Symptoms of heavy metal intoxication may include:

- Nausea, vomiting, and abdominal pain
- Diarrhea
- Tingling in the hands and feet
- Shortness of breath
- Chills
- Weakness
- Acute or chronic metal or metallic taste in the mouth

Who should consider heavy metals and essential elements testing? :

- Who smokes or vapes
- Is exposed to private well water or aging pipes
- Is concerned about heavy metals in foods like vegetables, rice and seafood
- Has mercury dental fillings
- Lives in an older home or near an industrial area
- Has thyroid-related health issues
- Has received vaccinations



What Do Your Results Mean?

If your heavy metal blood test shows a high level of metal, you will need to avoid exposure to that metal. If levels of heavy metals are low, but symptoms persist, BSI may suggest heavy metal IV EDTA and Vitamin C Chelation Therapy.



In-Depth Testing Analysis & Natural Holistic Treatment

The complete test includes:

- Cadmium
- Copper
- Lead
- Mercury
- Nickel
- Zinc

**Fasting:** No

**Specimen:** Urine

**Requirements:** Early morning urine is the best for more accurate test results. Avoid eating seafood for 48 hours before being tested.

**Results:** 1-3 Business Days

**Also suggested:** Hormone Panel