

Women's Health

ADULT 8000

- Diagnose Women's Unexplained Abnormalities
- Support Early Interventions to Prevent Women's Premature Mortality

Cancers and cardiovascular disorders represent over half of the causes of premature death for women 50-75 years of age, with diabetes, respiratory, neurological and liver diseases accounting for the majority of the remaining deaths.

Most of the female chronic diseases are asymptomatic at onset, and are often reported as unexplained abnormalities by routine health examination. Although environmental factors and lifestyles affect the onset of these diseases, many of these disorders are also associated with genetic causes.

Over 8,000 human diseases are caused by genetic mutations. By examining over 20,000 genes and analyzing 8000 disorders simultaneously, the **Adult 8000** test is effective in identifying risks associated with a wide range of critical disorders.

- This test specifically assess women's ovary, menopause, brain and bone health, and genetic health factors associated with obesity, exercise and diets.

Testing Process

- The test is processed at U.S. CLIA-certified and CAP-accredited clinical laboratories.
- Clinical report is issued by a board-certified medical director.
- Genetic counseling included (board-eligible genetic counselor).



ADULT 8000

Whole Genome Sequencing

8000 Disorders Personal Health Assessment

Reproductive Health Assessment

- Male & Female Infertility
- Spontaneous Abortion Risk
- Menopause abnormality
- Carrier Screening Analysis-
- Cancers
- Cardiovascular Disorders
- Endocrine System Abnormality including Diabetes and Fatty Liver
- Sleep Disorders
- Hearing and Eye Disorders
- Skeletal and Bone Disorders
- Immune System Disorders
- Skin Abnormality
- Auto-inflammatory Disorders
- Behavioral Abnormality
- Neurological Disorders including Dementia and Alzheimer Disease



Clinical
Laboratory
Improvement
Amendments



email: info@rainbowgenomics.com
tel: (852) 3481 0977



CANCERS COMMON DISEASES

ADULT 8000

WHOLE GENOME SEQUENCING

Cancers

Breast
Ovarian
Uterine
Prostate
Testis
Lung
Gastric
Colorectal
Liver
Pancreatic
Thyroid
Esophagus
Renal
Bladder
Gallbladder

Common Diseases

Type 2 diabetes	Glaucoma
Coronary artery disease	Macular degeneration
Osteoporosis	Rheumatoid arthritis
Stroke	Osteoarthritis
Asthma	COPD
Parkinson's disease	Atrial fibrillation
Alzheimer's disease	Dyslipidemia
Vascular dementia	Hypertriglyceridemia
Frontotemporal	Heart failure
Depressive disorder	Hypertension
Cerebral aneurysm	Myocardial infarction
Migraine	

Polygenic Risk Determination

Lifetime risks for cancers and many common complex diseases can be conferred by changes in multiple genes simultaneously. Your physician may decide to determine your polygenic risks to more comprehensively clarify your overall risks for multiple disorders. This test uses ethnic-specific genetic markers to determine lifetime and relative risks specifically for East Asians, South Asians, and Caucasians.

SKIN HEALTH, AGING AND NUTRITION



Women's Health

A. How to slow down skin aging?

- Collagen degradation and wrinkles



B. How to prevent skin inflammation and allergy?

- Eczema
- Contact dermatitis
- Rosacea



C. How to prevent skin aging?

- Skin oxidation protection
- Skin glycation protection



D. How to provide sufficient skin nutrition

- Vitamin A
- Vitamin B2
- Vitamin B6
- Vitamin B12
- Vitamin C
- Vitamin D
- Vitamin E
- Folate
- Omega 3 & Omega 6



Caner Prevention
Nutrients

Brain Health Nutrients

Diabetes Prevention
Nutrients



Skin aging, collagen degradation, skin nutrient deficiencies



I feel that my skin is aging, and I have occasional skin inflammation.

I worry about skin aging. Can precision medicine help me?

Solutions:

- Based on your specific ethnicity, such as Asians, we can determine DNA changes associated with collagen degradation, skin aging, hydration, elasticity, dryness, inflammation and allergy. By looking at your genetic deficiencies in multiple vitamins and minerals, we help you to enrich your diets and skin nutrients, reverse on-going damages and boost skin health.
- Hidden health issues like high cholesterol can lead to obesity. Obesity, in turn, can cause skin problems and make your skin age faster. However, you can control obesity through diet and exercise. Genetic testing can pinpoint your risks for obesity, cholesterol, high blood pressure, and triglycerides. It also helps you choose the best diet and exercise to lower these risks, potentially reducing or delaying skin problems and aging.

Understand collagen breakdown and skin aging

Fixing skin nutrient deficiencies caused by your genes.

Reverse and slow down skin aging

Fatty Acids

Water Moisture

Folate
Omega 3, 6

Healthy Skin Cells

Collagen

Carbohydrates

Vitamins

Minerals

Skin Growth Factors

Skin Elasticity Proteins

Silent Killer - Cancers

Women's Cancers - Breast & Ovarian Cancers

Question: I have a family history of cancer. When my mother discovered that she had breast cancer, it was already terminal. I am worrying if one day I also have a cancer without any symptoms. Can whole genome testing help me?

Precision Medicine:

- About 10-15% of cancers are caused by gene mutations, and many cancers have no symptoms. If you are a carrier of a cancer gene mutation, regular screening (mamogram, MRI, Rainbow 7000 Protein testing, etc.) may detect cancers at the early stages.
- Early discovery of cancer leads to early treatment. Survival rate of early stage cancer patients exceeds 90%.

Boost Ovary Health

Question: Can genetic testing also help me improve my ovarian health ?

Some genes help manage things like hormone levels, egg production, and menstrual cycles. When these genes don't work properly, it can lead to problems like irregular periods or difficulties getting pregnant. We can make sure you are not affected by the following issues -

- **Ovarian Dysfunction:** Gene changes can affect how ovaries work, causing irregular periods and infertility.
- **Menopause:** This is when women stop having periods and fertility declines. Scientists found about 300 gene changes linked to how long a woman stays fertile. These genetic variations can influence when menopause begins and how smoothly the transition happens, a woman's fertility and overall health.
- **Primary Ovarian Insufficiency (POI):** This happens when ovarian function decreases before 40, leading to **early menopause**. Gene changes might be a reason for this condition.

EYE AND RETINAL DISORDERS



Retinitis Pigmentosa

Determine If Eye Diseases
are Caused by Gene
Mutations

Glaucoma
Cataract
Night Blindness

Genetic Findings may Provide
Prognostic information to help you
Understand How your Disorder
may Progress

Analyze 1000+ Eye Disease Genes

Adverse Drug
Reaction

Determine Adverse Drug Reactions of 180 Medications

Inform physicians to avoid medications that cannot be
metabolized as predicted by drug manufacturers



Choosing the Right Medication the First Time is Critical

Cancer Patients often have
Limited Time to Receive Treatment

Chemotherapy Choices

Question 1. I have cancer, and only chemotherapy options are available. Can genomic testing help me choose a chemo drug?

Question 2: My mother had cancer. No targeted therapy was available. She had only one year left to treat the cancer. There was simply not enough time to try the chemo drugs. The treatment outcome was poor. For me, I want to be better prepared. Can I take your test now, and have a list of cancer drugs with minimal adverse drug reactions?

Precision Medicine:

- Cancer patients often do not have time to try multiple chemo drugs.
- Pharmacogenomic testing looks at how over 40 cancer drugs might cause side effects.
- If you have cancer, this test can help your doctor quickly choose the best drug for you.

Treating High Cholesterol

Question: I have high cholesterol and my statin is causing side effects like muscle pain and headache. Can genetic testing help me to find a better statin?

Precision Medicine:

Yes, genetic testing looks at your genes to see how you might react to different statins. This can help your doctor find a statin that works better for you with fewer side effects. It's especially useful if you're experiencing muscle pain or headaches from your current statin