

DISCOVER YOUR GENES,  
UNDERSTAND YOUR HEALTH!

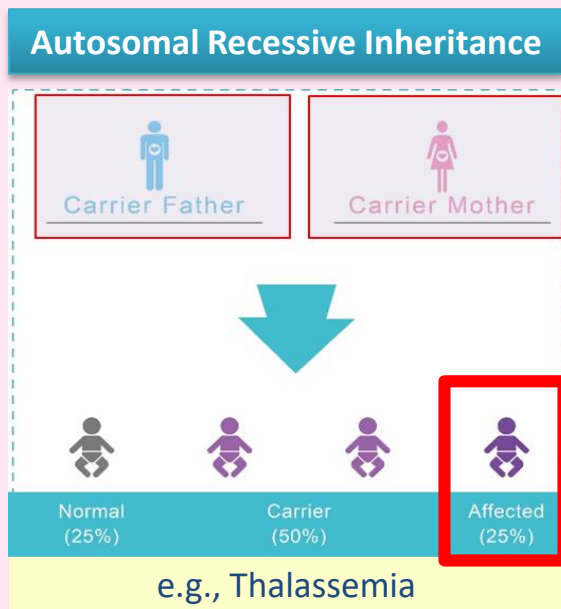


## GGA Expanded Carrier Screening

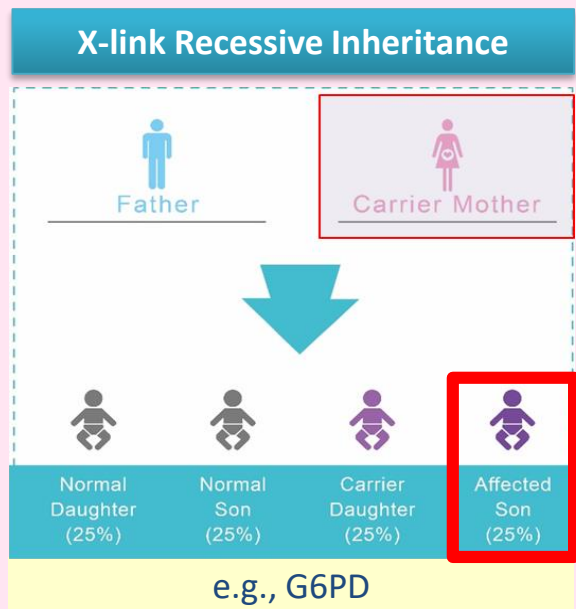
is a genetic test used to discover your risk of inherited diseases which may occur in the family and could be passed on to your kids!

**The average individual might carry >2 disease-causing genes.**

Many of us are carriers of inherited diseases and simply don't know it. Over 80% of children with inherited condition have no family history.



*If both parents are carriers of the same disorder, there is a 25% chance that the baby will inherit the disorder.*



*If the mother is a carrier, there is a 25% chance that she will have an affected male child in each pregnancy.*

Planning a pregnancy/  
Currently pregnant

Discover your risk of inherited diseases

Work with your physician to prepare for the health of your future family



## Diseases tested:

Up to 400 genes

### Immune System

Severe combined immunodeficiency (SCID)

### Blood

$\alpha/\beta$  Thalassemia

### Pulmonary Heart Disease

Cystic fibrosis

### Endocrine

Congenital adrenal hyperplasia (CAH)

### Musculoskeletal System

Duchenne muscular dystrophy (DMD)



### Nervous system

Spinal muscular atrophy (SMA)

### Development

Fragile X syndrome (FXS)

### Hearing

Non-syndromic hearing loss

### Skeletal Disease

Osteopetrosis

### Genitourinary System

Polycystic kidney disease (PKD)

### Skin

Dystrophic epidermolysis bullosa (DEB)

### Metabolic Disease

Glucose-6-phosphate dehydrogenase deficiency (G6PD)

## When to consider carrier screening?

It's recommended for people who:

- would like to understand their risk
- are pregnant or considering pregnancy
- have a family history of selected disorder\*
- are planning to use/ donate eggs, sperm, or embryos
- are closely related by blood (couples)

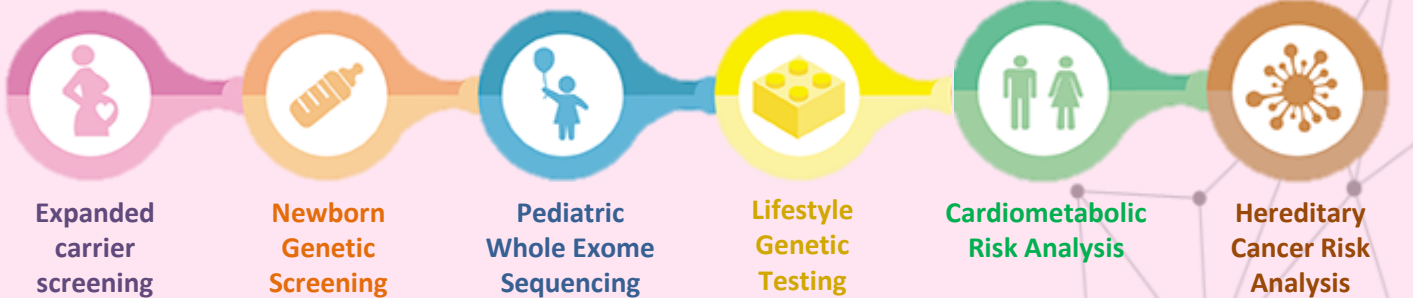
**Ask your physician about this test now!**

\*Please contact your physician for more information.

## Personal Genetic Databank

✓ Maximize the genetic information output within one test!

✓ 3R: Right information / Right time / Right health management



For more information, please visit [www.GGA.ASIA](http://www.GGA.ASIA)