

- Antioxidants
- Inflammation
- Insulin Sensitivity

## PHARMACOGENETIC TESTING Drug Metabolism Studies

Pharmacogenetics is the alternative to “one size fits all” and “trial and error” prescribing. Knowledge of patient’s drug metabolizing gene variations can help target appropriateness and dosage of many of the most commonly prescribed drugs. These studies support evidence based decision making, provide evidence for higher dose or more expensive drug use and prevent difficulties based upon family history of adverse drug reactions and therapeutic failures.

Currently the following tests are available:

- **CYP2D6** – acts on one-fourth of all prescription drugs, including opioid pain medications, selective serotonin reuptake inhibitors (SSRI), tricyclic antidepressants (TCA), betablockers such as Inderal, and Type 1A antiarrhythmics. Drugs in this category include Prozac, Zoloft, Paxil, Effexor, Hydrocodone, Amitriptyline, Claritin, Cyclobenzaprine, Haldol, Metoprolol, Rythmol, Tagamet and Tamoxifen.
- **CYP2C9** – Primary route of metabolism for Coumadin (Warfarin), Dilantin (phenytoin), Amaryl, Isoniazid, Sulfa, Ibuprofen,

Amitriptyline, Hyzaar, Naproxen and Viagra.

- **CYP2C19** – is associated with metabolism of Carisoprodol, Diazepam, Dilantin, Premarin and Prevacid.



Courtesy of the Human Genome Program, 2005

For further information,  
contact your local resource

## Synapse Health Center

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[www.synapsehealthcenter.com](http://www.synapsehealthcenter.com)

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## DNA TESTING

### Legal & Non-Legal Results

- Paternity
- Ancestry/Kinship
- Nutritional Analysis
- Drug Metabolism

No doctor prescription  
is required

**AABB & CLIA Accredited  
Laboratories**

**ACCURATE**  
**AFFORDABLE**  
**CONFIDENTIAL**  
**DEPENDABLE**  
**FAST**  
**RELIABLE**  
**PAINLESS**

Each person to be tested must bring two forms of identification:

- 1) Valid Driver's License
- 2) Birth Certificate
- 3) Valid Passport
- 4) Baptismal Papers

Minor children must be accompanied by a parent or guardian. In the absence of the mother, the alleged father or guardian must present a document indicating that they have the legal right to authorize the minor child to be tested. Children must present birth certificates to be tested. Pictures will be taken of each individual being tested.



**PATERNITY & KINSHIP**  
relationships verified or excluded

Most samples are analyzed simply and painlessly by buccal swabs. Alternative techniques can use a tube of blood, a drop of blood, saliva, or hair follicles with attached root. This test includes the mother, child and alleged father. Additional siblings or additional alleged

fathers may be tested at added costs. This testing may also be used to test for deceased parents, adoption, unusual kinship, twin and family studies, immigration, inheritance, custody, child support and forensic work. Legal Paternity Testing requires "Chain of Evidence" and demands that all participants be present at the time of testing. If mother or alleged father is missing or deceased, paternal grandparents may be used to exclude grandparentage.



### **NUTRITIONAL GENETIC TESTING** To optimize your health

This analysis combines testing of 19 genes that have been shown to play a major role in the body's heart and bone health, detoxification and antioxidant capacity, insulin sensitivity and tissue repair. Combined with a complete lifestyle questionnaire, the resulting information is unique and personalized, providing a path to improve and maintain your good health.

This report offers critical, direct benefits to the health conscious individual:

- Weight control through identification of missing nutrients your body may be craving

- Optimize the health and durability of skin, hair and bones
- Reduce susceptibility to heart disease, cancer and diabetes – by harmonizing your diet and life-style with your genome
- Easier compliance with a self-improvement program through direct, personalized knowledge about you!

Scientific evidence has established a concrete link between gene variation and lifestyle. The Nutritional Analysis study offers insight and advice on how to address your body's needs and avoid diet fads.



The following areas are included in this study:

- Heart Health
- Bone Health
- B Vitamin use
- Detoxification