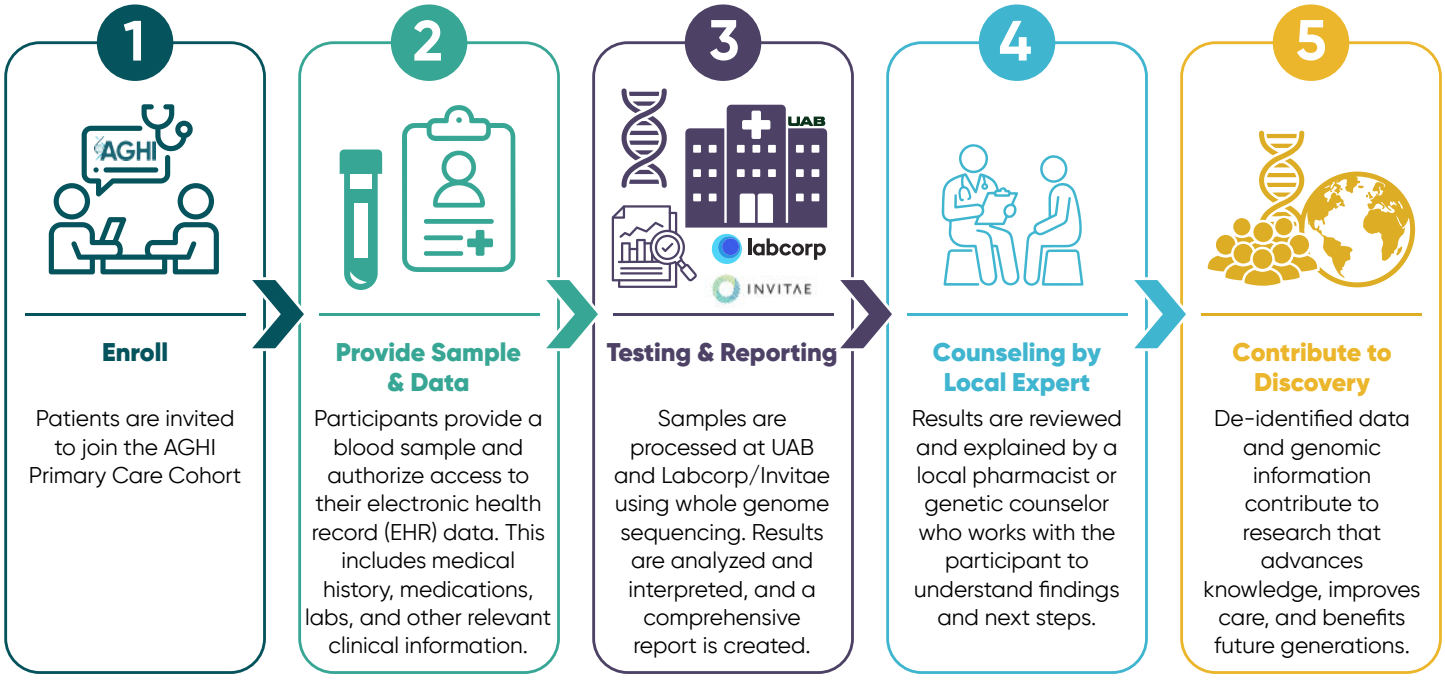
AGHI Alabama Genomic Health Initiative

The Alabama Genomic Health Initiative (AGHI) is a statewide, state-funded program that provides free genomic testing, interpretation, and counseling to Alabama residents.

AGHI Provides Genomic Screening To Uncover Hidden Risk For Common Chronic Conditions And Pharmacogenomics Testing To Tailor Prescriptions.

Genetic variation contributes to risk of common diseases (like breast cancer) and influences how individuals respond to medications (like statins for lowering cholesterol). Identifying these genetic differences before disease develops or before medications are prescribed can help:

- Detect inherited risks for cancers, cardiovascular disease, and other actionable conditions
- Enable earlier screening and preventive care
- Support personalized medication selection through pharmacogenomics (PGx)
- Reduce adverse drug reactions and improve treatment effectiveness
- Contribute to genomic database to advance research and discoveries



Your participation today helps advance precision medicine for tomorrow.

The process begins with enrollment of participants interested in learning about their health. During the **enrollment visit**, a research coordinator obtains **consent** and collects a **blood sample**.
The DNA from the sample is tested to understand how the individuals unique genetic code affects

1. **Disease risk** for high-risk genetic conditions such as hereditary breast and ovarian cancer predisposition (BRCA genes) or hidden, dangerous heart conditions like cardiomyopathy.
2. **Medication response** by assessing how your specific genes affect your response to medications. It focuses heavily on how your liver enzymes break down (metabolize) various drugs.

This is evaluated by **clinical geneticists**, and the **final report** is explained to the patient by a **genetic counselor** (disease risk) or **pharmacist** (medication response).