



# DRUG ALLERGY TESTING

Pharmacogenomics (PGx) Programs



# DAT - Drug Allergy Testing

DAT is a once in a lifetime Genetic test that identifies a patient's ability to metabolize medications and possible reactions and/or allergies based on an individual's unique genetic profile, utilizing the latest PGx testing technology. PGx is short for pharmacogenomics testing this test analyzes clinically important genetic variations which may impact how your patient metabolizes and responds to certain medications prescription and OTC.



Have you ever wondered why some medications may not seem to help you as much as others?

Have you ever changed the dose or stopped taking a medication because you didn't think it worked for you or didn't like the way it made you feel?

Have you ever wanted to know how a medication may affect you before you take it?

These types of questions might be answered by the DAT branded pharmacogenomics (PGx) test, which is the study of how genes affect the body's response to medications. Emerging tools for the DAT branded PGx testing, also referred to as drug-gene testing, can guide your doctor to tailor your medications based on your genes. This is key to personalizing your health care.

## What is PGx?

PGx is the study of how your genes may affect your body's response to, and interaction with, some prescription or over-the-counter medications.

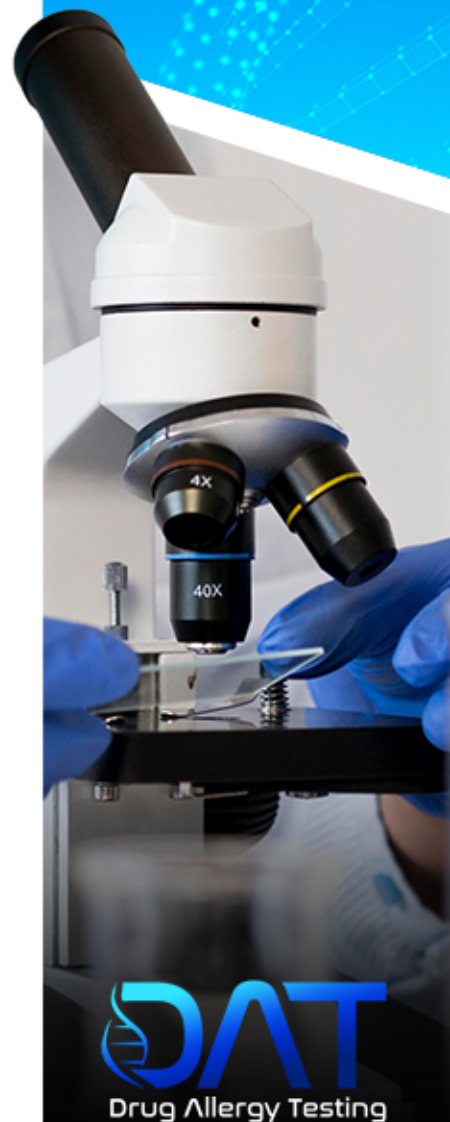
Genes, which are inherited from your parents, carry information that determines characteristics such as eye color and blood type. Genes can also influence how you process and respond to medications.

Depending on your genetic makeup, some medications may work faster or slower, or produce more or fewer side effects.

## Why is PGx important?

The results help tailor your medication based on your genes now and for future prescription needs.

# OVERVIEW



# Did you know many of your members could be taking incorrect medications?

## Prescription Drug Risks

*"One size fits all"*

Clinicians use trial and error as part of their standard of care to determine the appropriate medication and, which leads to poor ineffective treatments

1 in 10 chronic cases suffer a medication related adverse event during treatment

Up to 55% of behavioral health medications are ineffective

COMMONLY IMPACTED MEDICATION CLASSES:

- Cardiology
- Behav. Health
- Pain/Opioids
- Gastro
- Oncology

## Personalized Medication Management

*"Right drug, right dose"*

USES DAT TO IDENTIFY MEMBERS WHO:

- Respond to normal doses
- Respond to alternative doses
- Respond to Alternative medications
- Are at risk for dangerous side effects

Over 230 FDA-approved drugs have personalized prescription guidance that can be used to optimize the course of care

Studied benefits include lower care costs, improved outcomes, mitigating side effects, reduce hospitalizations, and shorter time to stabilize on new therapies

## Sample Savings

- 57 year old receives stent, started on Plavix
- Over 12 months, has 9 admissions, 9 stents put in
- DAT test indicates poor metabolizer of Plavix
- Switched to prasugrel
- Over \$100k in preventable treatment costs

# OVERVIEW



**DAT**  
Drug Allergy Testing



Purpose-built for the end-to-end  
delivery of advanced diagnosti solutions



Software

Analytical workflow, interpretation, and  
clinical decision support tools



Laboratory Diagnostics

R&D, Operations, & Logistics



Services

Turn-key programs & lab network



## DAT At A Glance

*GLOBAL TEAM:*

~200 staff members

*MAIN LOCATIONS:*

Houston, TX (HQ)

Pittsburgh, PA | Be'er Sheeva, Israel

*KEY MARKETS:*

Long Term Care, Health Systems, Employer  
Groups

*CLIENT FOOTPRINT:*

Over 2,000 client locations onboarded and  
connected via electronic ordering



# Full end-to-end program capabilities including Lab Testing and Software Solutions



## 1 Review Risks

- Conduct preliminary risk stratification
- Identify high risk/high cost cohort for program outreach
- Review launch and member communication plan



## 2 Select & Implement

- Coordinate member outreach
- Member completes simple diagnostic test (check swap)
- Results provided to member and care provider to optimize Rx treatment plan



## 3 Results Review

- Review of impacted members and change tracking
- Identify specific overall care benefits and cost savings
- Program reporting/analytics available through DAT platform

