

Clarity[®]



***Advancing Care
with Genetic Insights***

Transform Medication Management with Genetic Insights

Managing medications effectively can be challenging, especially when every patient responds differently. ClarityX® empowers healthcare providers with genetic insights to optimize treatment, improve therapeutic outcomes, and minimize the risk of adverse drug reactions — helping you deliver safer, more effective care.

Why ClarityX® Matters

ClarityX® enhances clinical decision-making by identifying genetic factors that influence drug response, enabling more precise prescribing. By optimizing treatment plans, ClarityX® helps improve patient outcomes, while enhancing adherence and improving overall patient satisfaction.

Genetic Variants & Drug Metabolism

Widespread Genetic Variations: Research shows that **99% of individuals** carry at least one genetic variant that affects how they metabolize certain medications.

Impact on Treatment Outcomes: These genetic differences can alter drug efficacy and increase the risk of adverse effects if not taken into account — highlighting the need for a personalized approach to prescribing.

The Challenge of Trial-and-Error Prescribing

Low First-Try Success Rates: Up to **50% of patients** fail to respond adequately to their initial prescription for conditions like depression or hypertension.

Delays in Optimal Treatment: This trial-and-error approach can lead to **increased adverse drug reactions (ADRs)**, multiple office visits, and rising healthcare costs — prolonging the path to effective care.

99%



50%



Adverse Drug Reactions (ADRs): A Critical Concern

The Leading Cause of Preventable Harm: ADRs are the fourth leading cause of death in the U.S., contributing significantly to preventable morbidity and mortality.

A Costly Healthcare Burden: ADR-related complications add **an estimated \$136 billion** to annual U.S. healthcare costs, driving unnecessary hospitalizations and treatments.

Broad Therapeutic Coverage for Personalized Prescribing

MaxRx[®] – Covering 275+ Medications

Anesthesia Medications

- Injectable Anesthetics

Anticancer Agents

- Anti-Estrogens
- Antifolates
- Aromatase Inhibitors
- Protein Kinase Inhibitors

Antihistamines

- Histamine (H1) Receptor Antagonists

Cardiovascular Medications

- Angiotensin II Receptor Antagonists
- Antianginal Agents
- Antiarrhythmics
- Anticoagulants
- Antiplatelets
- Beta Blockers
- Diuretics
- Statins

Diabetes Medications

- Meglitinides
- Sulfonylureas

Epilepsy Medications

- Anticonvulsants

Gastrointestinal Medications

- Antiemetics
- Immunomodulators
- Proton Pump Inhibitors

Gynecology Medications

- Endometriosis Pain Agents

Hematology Medications

- Hemostatic Agents

Infectious Disease Medications

- Anti-HIV Agents
- Antibiotics
- Antifungals
- Antiviral Agents

Multiple Sclerosis Medications

- Disease-Modifying Agents

Pain & Inflammation Management

- Muscle Relaxants
- NSAIDs
- Opioids

Psychotropic Medications

- Anti-ADHD Agents
- Antidepressants
- Antipsychotics
- Benzodiazepines

Pulmonology Medications

- Asthma/COPD Medications

Rheumatology Medications

- Anti-Gout Agents
- Immunomodulators

Sleep Disorder Medications

- Narcoleptic Agents

Transplantation Medications

- Immunosuppressants

Urological Medications

- 5-Alpha Reductase Inhibitors for BPH
- Alpha-Blockers for BPH
- Overactive Bladder Medications
- Erectile Dysfunction Medications



Genetic Markers for Medication Response: 20 Genes Tested



Testing Process & Turnaround Time

Sample Collection	Non-invasive cheek swab collection kit.
Shipping	Prepaid, secure packaging ensures safe transport to our CLIA-certified laboratory.
Laboratory Analysis	Advanced testing using the Agena Bioscience® MassARRAY® platform for high-throughput genetic analysis.
Data Interpretation	Results analyzed with a proprietary algorithm, referencing FDA guidelines, CPIC (Clinical Pharmacogenetics Implementation Consortium), and other pharmacogenomic databases.
Report Delivery	Results available within 5–7 business days from lab receipt.

ClarityX® Advantage Ordering

We have made it easier than ever by simplifying the test ordering process ensuring you always have the necessary tests on hand:

Flexible Ordering Options: Enjoy no-obligation sample kits and easy reordering processes.

Dedicated Support: Our clinical team is here to help with post-test consultations and ongoing education.

No Extra Upfront Costs: Stocking your office with ClarityX® test kits carries no financial risk, so you can focus on providing the best care for your patients.

*** Mayo Clinic Proceedings:**

A 2013 article titled "Proactive Pharmacogenomic Testing for Precision Medicine" states that "virtually 100% of patients have at least 1 actionable pharmacogenomic variant."

***The New England Journal of Medicine:**

A 2019 article "Personalized Medicine for Depression" discusses the challenges of finding effective treatments, mentioning that only about one-third of patients achieve remission with their first antidepressant treatment.

*** American Heart Association Journal - Hypertension:**

A 2018 article titled "Resistant Hypertension: Detection, Evaluation, and Management" mentions that about 50% of hypertensive patients do not achieve blood pressure control with initial therapy.

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