



KNOWING

the possibilities for effective treatment

When it comes to prescribing medications, one size may not fit all

While factors like weight and height, along with coexisting medical conditions, can impact a patient's response to medications, so can their genetic makeup. Each person's genetic profile may directly impact their ability to tolerate and respond to different medications. Knowing the right drug for the right patient can make all the difference in achieving a positive outcome.

A pharmacogenomics panel for better patient health

Sonora Quest offers one of the most comprehensive pharmacogenomic test panels in order to help gain insight into a patient's potential response to nearly 150 different medications and provides information for over 250 drugs.* This full panel is particularly advantageous for patients on multiple medications who may otherwise require multiple panels — all coming from a company you trust to meet all of your lab needs.

The Sonora Quest Pharmacogenomics Panel is based on pertinent literature sources that may provide clinical insights to help inform treating physicians about a patient's genetic attributes to help optimize patient treatment considerations and outcomes.¹ This includes the potential to eliminate costly and sometimes medically significant adverse events by helping to identify patients who may be susceptible to adverse events from certain medications. Pharmacogenomic testing can also help reduce the time and costs associated with a trial-and-error approach to treatment.²

When to order the Pharmacogenomics Panel

Physicians should consider ordering the Pharmacogenomics Panel

- Prior to initiating patient treatment with a specific drug therapy
- If a patient has started taking a drug and is experiencing side effects
- If a patient is having trouble establishing and/or maintaining a stable dose of a drug
- For a patient for whom a psychotropic medication is under consideration

PGx panel

250+
medications

23
genes

Avoiding adverse drug reactions can make a difference

2 Million

adverse drug reactions annually³

1 Million

ER visits due to adverse drug reactions⁴

100_k

fatalities due to adverse drug reactions³

*Pharmacogenomic information is not assessed for potential alternative medications. These data are provided as alternatives to consider based on information reported in the literature due to pharmacogenomic contraindications in other medications.

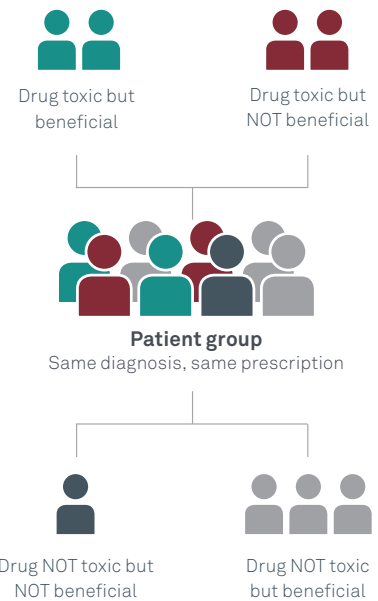
Pharmacogenomic testing plays a significant role in helping to improve patient response to drugs

Pharmacogenomic testing identifies genetic variations that may influence a patient's response to different medications. Genetic testing may help determine

- Risk of adverse drug reaction
- A more likely positive drug response

The Pharmacogenomics Panel from Sonora Quest provides pharmacogenetic information for 23 genes, and reports information on over 250 commercial drugs across multiple classes of medication.

- Anesthesia
- Anti-Cancer Agents
- Antihistamines
- Cardiovascular
- Diabetes
- Epilepsy
- Gastrointestinal
- Gaucher Disease
- Gynecology
- Infectious Disease
- Multiple Sclerosis
- Pain
- Psychotropic
- Pulmonology
- Rheumatology
- Sjogren's Syndrome
- Sleep Disorder Agents
- Transplantation
- Urologicals



Physicians receive test results in a comprehensive and easy-to-understand report that may include dosing guidelines from CPIC®, other pharmacogenomic consortia, and FDA-approved labeling. Results can be utilized as a reference for your patients throughout their lifetimes. Discreet data is stored in EMR for future reference and potential integration into prescribing decisions.

Test code	Test name	Sample specifications	Turnaround time
907061	Pharmacogenomics Panel	Optimum: 5.0 mL Minimum: 2.0 mL	5-7 days

CPT codes ^a	Preferred specimen ^b	Specimen stability
81418	Whole blood in EDTA lavender-top tube Buccal swabs are also acceptable	Buccal: room temperature, 2°C to 8°C and -10°C to -30°C for 30 days Whole blood: room temperature and 2°C to 8°C for 30 days

^aThe CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.

^bDNA will be extracted from the sample and tested for changes in multiple genes.



For more information on Sonora Quest's pharmacogenomic test panel visit [SonoraQuest.com](https://www.SonoraQuest.com) or talk to your Account Manager.

References

1. Sources available upon request.
2. Elliott LS, Henderson JC, Neradilek MB, et al. Clinical impact of pharmacogenetic profiling with a clinical decision support tool in polypharmacy home health patients: a prospective pilot randomized controlled trial. *PLoS One*. 2017;12:e0170905.
3. US Food & Drug Administration (FDA). Preventable adverse drug reactions: a focus on drug interactions. <https://www.fda.gov/Drugs/DevelopmentApprovalProcess/DevelopmentResources/DrugInteractionsLabeling/ucm110632.htm>. Updated March 6, 2018. Accessed December 4, 2018.
4. Office of Disease Prevention and Health Promotion. Adverse drug events overview. <https://health.gov/hcq/ade.asp>. Updated December 7, 2017. Accessed December 4, 2018.

The information provided herein and in the pharmacogenetics report is for physician consideration and each physician has to determine what is the best treatment for their patient based upon the physician's education, experience, and clinical assessment of the patient.

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