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

Quest Diagnostics offers one of the most comprehensive pharmacogenomic test panels in order to help gain insight into a patient’s potential response to nearly 200 different medications and provides information for over 280 drugs.* This full panel is particularly advantageous for patients on multiple medications who may otherwise require multiple panels — all at a low cost and coming from a company you trust to meet all of your lab needs.

The Quest Diagnostics 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 patients on multiple medications

*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.

Avoiding adverse drug reactions can make a difference

2 Million adverse drug reactions annually³

1 Million ER visits due to adverse drug reactions⁴

100k fatalities due to adverse drug reactions⁵
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 Quest provides pharmacogenetic information for 44 genes, and reports information on over 280 commercial drugs across multiple classes of medication.

- Anesthesia
- Cancer/Hematology
- Cardiovascular
- Diabetes
- Gastrointestinal
- Gaucher Disease
- Infectious Disease
- Neurology
- Pain
- Psychiatry and Addiction
- Rheumatology
- 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.

### Test code | Test name | Sample specifications | Turnaround time
--- | --- | --- | ---
36943 | Pharmacogenomics Panel | Optimum: 5.0 mL Minimum: 2.0 mL | 7-14 days

### CPT codes* | Preferred specimen* | Specimen stability
--- | --- | ---
81225 81283 81381 | Whole blood in EDTA lavender-top tube | Whole blood
81226 81291 81381 | Saliva #200935 and buccal swabs #200944 are also acceptable | Room temperature: 30 days
81227 81328 81381 | | Refrigerated: 8 days
81230 81335 81400 | | Frozen: Unacceptable
81231 81350 81479 | | Saliva
81232 81355 81306 | Room temperature: 30 days | Refrigerated: 30 days
81247 81381 | Frozen: 30 days | Buccal

* The 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.

**DNA will be extracted from the sample and tested for changes in multiple genes.**

Quest Diagnostics offers healthcare providers access to genetic experts who can consult with you in interpreting your patient’s results. For questions related to pharmacogenomic testing, please contact our Genomic Services team at 1.866.GENE.INFO (1.866.436.3463). For more information, visit QuestPGx.com

### References
1. Sources available upon request.

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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