Pharmacogenomic (PGx) Testing



Tests Guide Appropriate Drug Selection and Dosing

Pharmacogenomic (PGx) testing (also known as pharmacogenomic biomarker testing) is a component of precision medicine that involves examining a patient's inherited genes to detect variations that may impact the way a drug is broken down, absorbed, and used within the body. Sometimes these variations can impact the safety and effectiveness of treatment. The same treatment given to patients with the same disease can produce different responses based on each person's inherited genes.

Prescribing Without Pharmacogenomic Testing



Some gene-cancer drug interactions can have a significant impact on patient outcomes. For example, certain variations in the DPYD gene have been linked to a higher risk of mortality from cancer drugs called fluoropyrimidines.

Toxicity from one of the most commonly used fluoropyrimidines, fluorouracil (5-FU), is estimated to be responsible for more than 1,300 deaths per year.¹ With PGx testing, DPYD gene variations can be identified before a patient is treated with fluoropyrimidines, allowing a provider to adjust dosing (or avoid the drug class entirely) depending on PGx results.

PGx testing can lead to better clinical outcomes for people with cancer by improving the effectiveness of treatment or by reducing the risk of adverse drug reactions that can cause a patient to stop treatment, or in some cases can lead to death.

Prescribing With Pharmacogenomic Testing

