AUSTRALIAN Clinicallabs

Pharmacogenetics (PGx) Testing

Personalised medicine for safer, more effective treatment

Pharmacogenetics (PGx) is the study of how your genes influence the way your body responds to medication. Everyone metabolises medication differently, which can affect how well a treatment works or whether it causes side effects.

PGx testing helps your doctor select the most appropriate medication and dose for you, reducing trial and error, minimising side effects and improving treatment outcomes.

How does your doctor use your PGx test results?

PGx testing is a simple, **once-in-a-lifetime blood test** that shows your doctor how your body processes **certain medications**. If your genes affect the way you metabolise a medication, your doctor may adjust the dose or choose a safer, more effective option.

Your doctor may recommend PGx testing if you have experienced side effects, had a poor or incomplete response to treatment, or are starting a new long-term medication.

Your results help guide your doctor's decisions now and in the future, supporting medication choices **when an applicable medicine is prescribed**.

What are the benefits of PGx testing?

- Minimises side effects
- Avoids trial-and-error dosing
- Helps identify the right treatment from the start
- Optimises treatment outcomes
- Provides lasting guidance for future prescribing
- Enables safer, more personalised care

What PGx tests are available?

Clinical Labs offers a wide range of PGx tests covering medications used in **mental health, pain management, heart conditions, cancer treatment** and other areas.

These tests look for small genetic differences that affect how your body breaks down specific medications. If a drug is metabolised too slowly or too quickly, it may not work as intended or may cause side effects.

Comprehensive PGx Gene Panel

Our most commonly ordered PGx test analyses key genes that influence how your body metabolises many widely used medications.

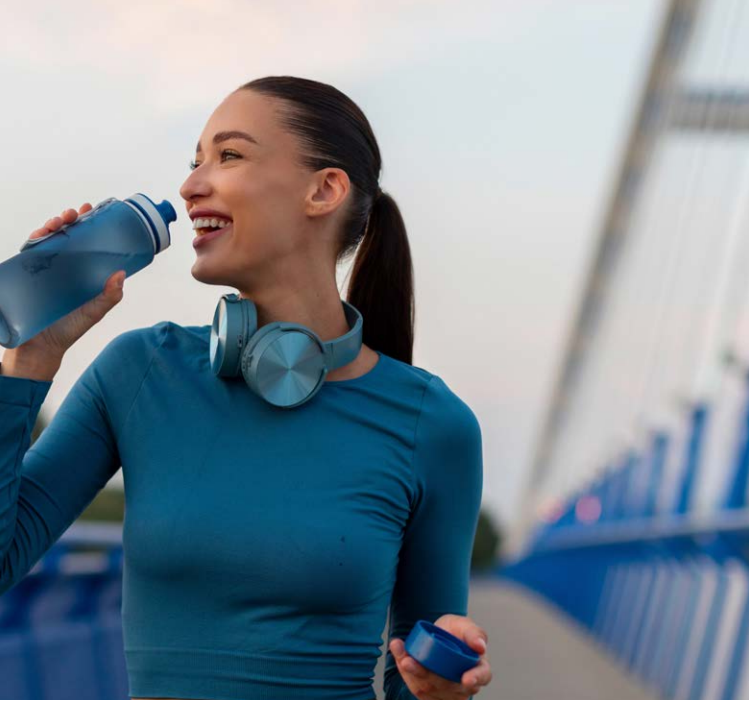
Genes included:

· *CYP2D6* · *CYP2C19*

· *CYP2C9* · *CYP3A4*

· *CYP3A5* · *CYP1A2*

· *SLCO1B1* · *VKORC1*



These genes can affect your response to certain medications such as:

- **Warfarin** – blood thinner
- **Atorvastatin** – cholesterol lowering
- **Metoprolol** – blood pressure control
- **Codeine** – pain relief
- **Sertraline (Zoloft)** – antidepressant
- **Omeprazole** – stomach acid reduction
- **Tamoxifen** – breast cancer treatment

For pricing and to view the list of medications and genes included in our Comprehensive PGx Gene Panel, visit clinicallabs.com.au/patient/pharmacogenetics or scan the QR code.

When should I discuss PGx testing with my doctor?

You may wish to talk to your doctor about PGx testing if your medications are covered by our PGx test and you:

- Are starting a new long-term medication
- Have experienced side effects or poor results from treatments
- Take multiple medications that are metabolised by different genes
- Have a family history of adverse drug reactions
- Want personalised guidance to support safer prescribing

Your doctor can explain how PGx testing may help guide your current and future treatment response.

Where can I have the PGx blood test?

Once you have a request form from your doctor, visit any Clinical Labs collection centre for your PGx blood test. We accept all pathology request forms.

To find a collection centre near you, visit clinicallabs.com.au/location or scan the QR code.

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