

## Process for Using Dtect PGx

Ask your doctor for Dtect PGx today.



Your doctor will collect a minimum of 3ml of blood, and send it to our laboratory.



We will extract DNA from the sample and screen for genetic markers.



We will send the results to your doctor.



Your doctor will explain the results to you and provide advice on which drugs are suitable for you.

Understand and Manage Your Health and Medication.

Ask for Dtect PGx Today.

### Disclaimer

The information presented in the Dtect PGx report is provided as personal health information. The content is not intended to be a substitute for professional medical advice, diagnosis or treatment. Only a physician, pharmacist or other healthcare professional should advise a patient on the use of the medications prescribed. The report is one of multiple sources of information that clinicians should consider in guiding their therapeutic choice for each patient. It remains the responsibility of the healthcare provider to determine the best course of treatment for a patient. Adherence to dose guidelines does not necessarily assure a successful medical outcome.

### Other Products

**Dtect BRCA+:** Screens for risk of breast and ovarian cancers.

**Dtect Cardio & Metabolic:** Evaluates markers associated with cardiovascular and metabolic diseases.

**Dtect Carrier:** Screens your carrier status for rare genetic disorders.

**Dtect Child:** Detects inherited genetic illnesses/developmental disorders in children.

**Dtect Colon+:** Screens for risk of colorectal cancer, using ACMG guidelines.

**Dtect Derma:** Screens for traits or conditions that affect the skin.

**Dtect Fertility:** Screens for genetic causes of infertility.

**Dtect Immune Health:** Screens for risk of COVID-19 susceptibility and severity.

**Dtect Neuro:** Screens for risks of various types of neurological conditions.

**Dtect NPC+:** Screens for risk of nasopharyngeal and head and neck cancers.

**Dtect Onco:** Screens for risk of familial cancers.

**Dtect PGx:** Screens for risk of adverse drug reactions and drug responses.

**Dtect Prostate+:** Screens for risk of prostate cancer, using ACMG guidelines.

**Dtect Wellness:** Screens for traits or conditions that affect health and wellness.

- Please visit [www.dtect.com](http://www.dtect.com) for new product updates -

Available at:



**Malaysian Genomics Resource Centre Berhad** (652790-V)  
[www.mgrc.com.my](http://www.mgrc.com.my)



**Find out more at:**

[www.dtect.com](http://www.dtect.com) | [enquiries@dtect.com](mailto:enquiries@dtect.com) | +6 017 338 0060

PGX-PAT-02

DNA



## Genetic Screening for Drug Response and Adverse Drug Reactions

Your First Step Towards  
Total Health and Vitality

PATIENT'S GUIDE



# Find Out Which Medications are Safe and Effective for You

When it comes to medications, one drug is not suitable for all individuals. A drug that works well for others may not work for you.

More importantly, even common prescription drugs can cause dangerous and costly negative side effects which are known as adverse drug reactions (ADR).

New technologies and tests are now available to take the guesswork out of drug therapy.

By taking a DTECT PGx test today, you can easily screen your DNA for genetic markers associated with:

- **Drug Response**
- **ADR Risks**

The test results can help your doctor to identify the right medication and right dose for you according to your personal genetic profile.

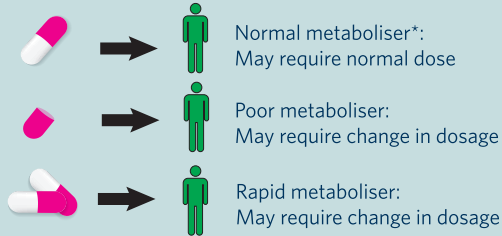
DTECT PGx tests use the latest technologies and equipment available from the USA.

## BENEFITS OF DTECT PGx TESTS

- ✓ Obtain optimal drug therapy from the start
- ✓ Avoid trial-and-error treatment approach
- ✓ Reduce treatment failures
- ✓ Minimise negative side effects
- ✓ Save time and reduce costs
- ✓ Help with future medication needs, if necessary

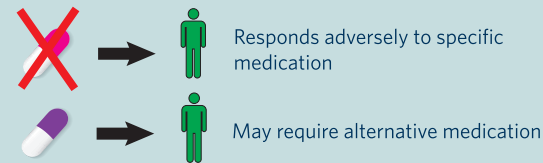
## Drug Response

- Identify your responsiveness to certain drugs.
- Your doctor can adjust your dosage accordingly or recommend alternative medication.



## ADR Risks

- ADR events are preventable.
- Find out which medications are suitable for you.



\*"Metaboliser" describes an individual's ability to process certain drugs.

## ADR FACTS<sup>1, 2, 3, 4</sup>

- 1 in 4 patients are prescribed drugs which could injure them
- ADRs are the fourth leading cause of death in the USA
- ADR risks increase exponentially when more than 3 medications are prescribed
- When more than 6 medications are prescribed, ADR risks can exceed 80%
- ADR risks increase with age



References:

- <sup>1</sup> Centres for Disease Control and Prevention. Retrieved from: <http://www.cdc.gov/MedicationSafety/basics.html>
- <sup>2</sup> Weingart SN, Gandhi TK, Seger AC, et al. Patient-Reported Medication Symptoms in Primary Care. Arch Intern Med. 2005;165(2):234-240. doi:10.1001/archinte.165.2.234
- <sup>3</sup> US Food and Drug Administration. Retrieved from: <http://www.fda.gov/Drugs/DevelopmentApprovalProcess/DevelopmentResources/DrugInteractionsLabeling/ucm110632.htm>
- <sup>4</sup> Hacker, MP, Messer, WS, Bachmann KA. Pharmacology: Principles and Practice. Amsterdam: Elsevier/Academic, 2009.

# Types of DTECT PGx Tests

DTECT PGx tests can screen the DNA for possible drug response and adverse drug reactions related to the following drug classes:

## Anticancer Agent

- Antifolates

## Cardiovascular

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

## Diabetes

- Meglitinides
- Sulfonylureas

## Gastrointestinal

- Antiemetics
- Proton Pump Inhibitors

## Infections

- Antifungals
- Anti-HIV Agents
- Antimalarials

## Pain

- Fibromyalgia Agents
- Muscle Relaxants
- NSAIDs
- Opioids

## Psychotropic

- Antiaddictives
- Anti-ADHD Agents
- Anticonvulsants
- Antidementia Agents
- Antidepressants
- Antipsychotics
- Benzodiazepines
- Other Neurological Agents

## Rheumatology

- Anti-Hyperuricemics and Anti-Gout Agents
- Immunomodulators

## Urologicals

- 5-Alpha Reductase Inhibitors for Benign Prostatic Hyperplasia
- Alpha-Blockers for Benign Prostatic Hyperplasia
- Antispasmodics for Overactive Bladder
- Phosphodiesterase Inhibitors for Erectile Dysfunction