

Rigorous accuracy and accreditation

Genotyping SNPs in an independent laboratory with CAP/CLIA accreditation and ISO9001/ISO17025 certification

>99%

Detection accuracy of approximately 99%

>99.99%

Reproducibility of approximately 99.99%

Case Study: Utilizing Pharmacogenetics testing to avoid adverse side effects of medication

Statins

(For example: Simvastatin, Atorvastatin)

- Commonly used for lowering blood lipids and preventing cardiovascular diseases
- Common side effects: digestive system problems, skin rashes, insomnia, liver problems
- Adverse side effects: muscle swelling and pain, muscle weakness, muscle disease, rhabdomyolysis

There have been patients with rhabdomyolysis caused by taking Simvastatin. After Pharmacogenetics testing, it is found that the patient has the SLCO1B gene mutation, and it is advisable to take a lower dosage or have a change in drug type.



If a patient is having drug side effects due to cardiovascular and haematological medications, please do not adjust the dose or stop medication without guidance from medical professionals. It is recommended to consult a doctor or pharmacist first. After getting the Pharmacogenetic test report, please communicate with your doctor for alternative medication plans.

How to order CoGenesis® Cardio-Haema?

1

Order the kit on the Codex Genetics website or contact our customer service.

2

Once the order is confirmed, we will ship the saliva collection kit and detailed instructions to you within 2 working days.

3

Register the saliva collection tube barcode online and collect your saliva sample by following the instructions manual enclosed with the kit.

4

Mail your kit back to us for genetic testing. The client's DNA information will be analyzed by our CoGenesis® Bioinformatics platform with next-generation sequencing (NGS) technology.

5

You will receive your results on the Codex Genetics webpage in approximately 6 weeks.

About CodeX Genetics

Codex Genetics enables precision medicine through AI-powered analytics on both genetic and clinical data. We aim to provide holistic, clinically actionable disease management solutions for patients. CoGenesis® genetic testing technology accelerates neurodegenerative diseases diagnostic processes, helps cancer treatment, disease management, and provides pharmacogenetics advice.

Disclaimer

The report is for research use only and should not be interpreted as specific professional medical advice. Please present the genetic sequencing results to and consult qualified medical professionals before making decisions about medical conditions or before starting and stopping any prescribed treatment. The report is based solely on the genetic testing and other provided information and does not take all factors of the individual's care into account.



Privacy and data usage statement

Codex's platform follows the Health Insurance Portability and Accountability Act (HIPAA) guideline, including the security provisions to protect the privacy of protected health information, such as diagnosis data, clinical data, and lab results. All your data is carefully monitored and not accessible to anyone except those who have a verified business. Data is encrypted while in storage and during transfer on any network. For more information, please visit

<https://www.codexgenetics.com/privacy-policy.html>

CoGENESIS® Cardio-Haema Drug Response Genetic Test for Cardiovascular and Haematology Medicine



Experiencing side effects from the long-term use of cardiovascular drugs?

Taking medicine regularly but not achieving the desired effects?

This product is aimed at people who are concerned about cardiovascular and haematological diseases.

Find out the most suitable medication for your physique and/or help reduce the side effects of medication.

ADDRESS | Unit 220, 16W, Hong Kong Science Park, Hong Kong

E-MAIL | support@codexgenetics.com

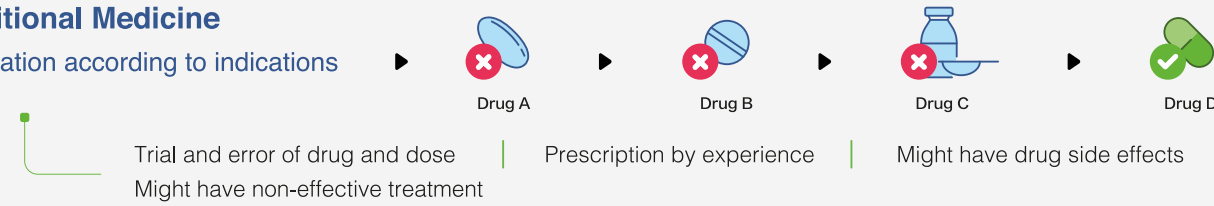
WEBSITE | www.codexgenetics.com

What is Precision Medicine?

Rather than a one-size-fits-all approach, precision medicine is the customization and personalization of healthcare, from diagnosis and treatment, to the monitoring and management of individuals and their prognoses.

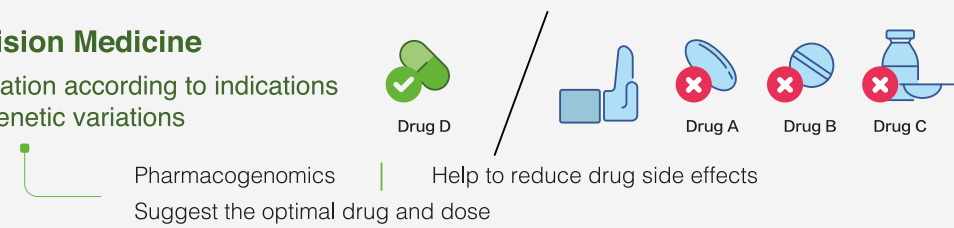
Traditional Medicine

Medication according to indications

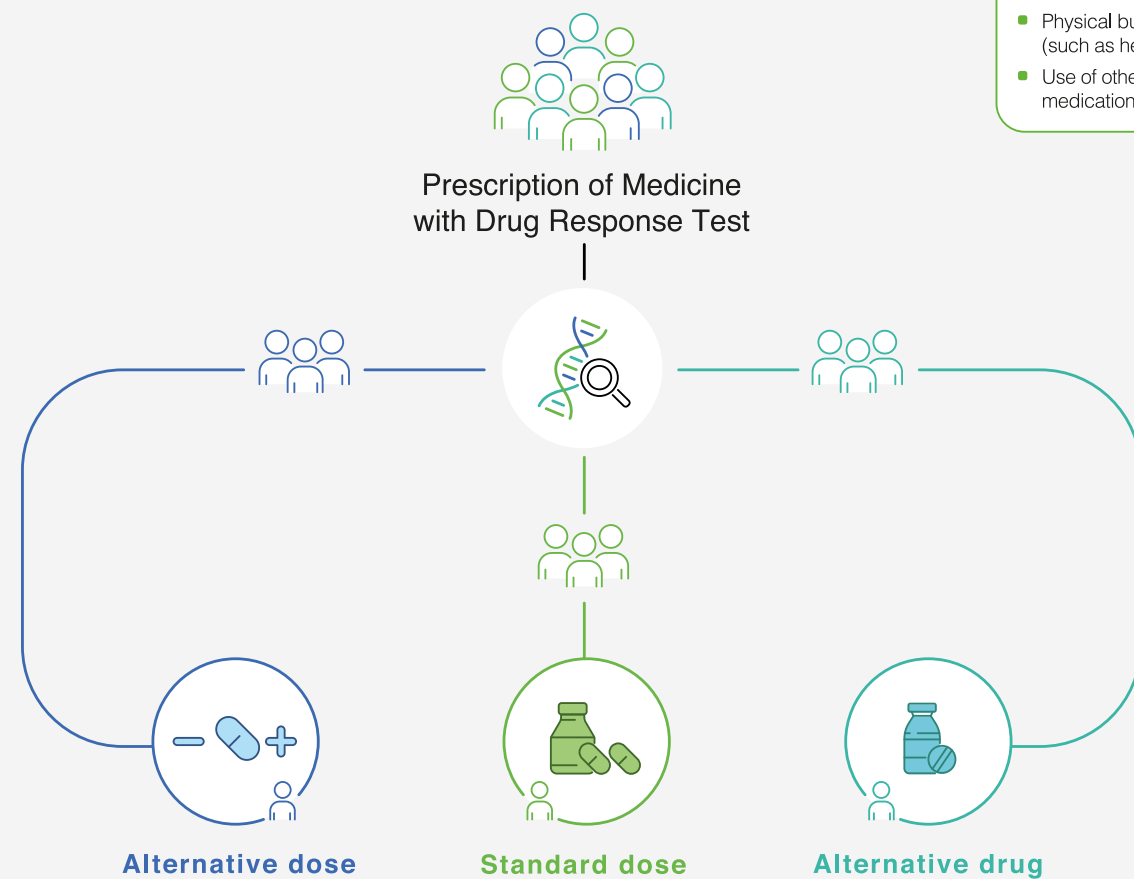


Precision Medicine

Medication according to indications and genetic variations



Cardiovascular drugs often require long-term usage:
Is the type and dosage of your prescribed medication right for you?



Individual responses to medication differ. Genetic variations that can alter expression or function of drug metabolizing enzymes, transporters, and drug targets can contribute to the observed variations in drug response. The field of pharmacogenomics, with its focus on identifying the genetic determinants of drug response, has tremendous potential to improve care, reduce costs, and mitigate adverse outcomes of medication. Codex's CoGenesis® pharmacogenomics test offers a more personalized approach in the process of selecting cardiovascular and haematological medication, doing so according to a person's unique genetic makeup.

Who should consider CoGenesis® Cardio-Haema?

- All cardiovascular and haematological patients
- Patients who have tried and failed previous treatments
- Patients who would like to avoid drug side effects
- Patients who are looking for more personalized medication suggestions

Genes tested



F5 | CYP2D6 | G6PD
 CYP2C9 | CYP4F2 | VKORC1
 CYP2C19 | SLCO1B1

Implications

- | | | |
|--------------------------------|-------------------------------|------------------------------|
| Coronary artery disease | Pulmonary embolism | Dermal anaesthesia |
| Thrombocytopenia | Ventricular tachycardias | Deep vein thrombosis |
| Stroke | Supraventricular tachycardias | Left ventricular dysfunction |
| Heart attack | Angina | Acute myocardial infarction |
| Hypertension | Dyslipidemia | Atrial arrhythmias |
| Congestive heart failure (CHF) | Revascularization procedures | Ventricular arrhythmias |

CoGENESIS® Drugs covered in CoGenesis® Cardio-Haema



- Agonist of the c-mpl (TpoR) receptor **Eltrombopag**
- Antiarrhythmics **Flecainide** | **Lidocaine** | **Prilocaine** | **Propafenone**
- Anti-coagulant **Warfarin**
- Anti-platelet **Clopidogrel**
- Inhibits persistent or late inward sodium current **Ranolazine**
- Nonselective beta blocker and alpha-1 blocker **Carvedilol**
- Lower lipid **Atorvastatin** | **Simvastatin**
- Selective beta-1 receptor blocker **Metoprolol**