

**PHARMACOGENOMICS
INFORMATION
| BROCHURE**

YOU ARE UNIQUE SO SHOULD BE YOUR MEDICATION

Every individual has a different set of genetic variants which make them unique. Members of the same family may have both, similar and unique genetic predispositions. Similarly, every individual responds to medication differently. We have often experienced that one medication works very well in certain individuals whereas that same medicine may not be effective in others. And in some others, it may lead to certain side effects. Ever wondered why does this happen?

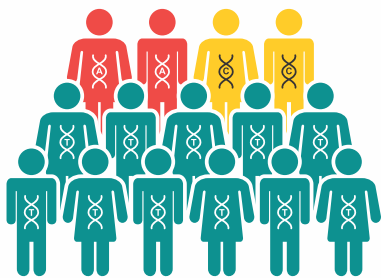
WELL, YOUR GENES CAN ANSWER THIS!



RIGHT DRUG

RIGHT DOSAGE

RIGHT INDIVIDUAL



Patients taking same medication



Desired effects



No response



Serious side effects

WELCOME TO THE

WORLD OF PHARMACOGENOMICS (PGx)

Pharmacogenomics is a study that uses your genetic information to predict your response to certain drugs/medicines. This can help the doctors prescribe safer & more effective medication. Genes influence your drug metabolism and response towards the drug. Hence, for any given drug, there are two types of people - those who respond to a particular medication at a standard dose and those who don't. For those who do not respond, there will be a requirement of either an alternate medication or a change of dosage. A person will metabolize the medicine in the following ways for any drug.



Poor Metabolizer



Normal Metabolizer



Intermediate Metabolizer



Rapid Metabolizer

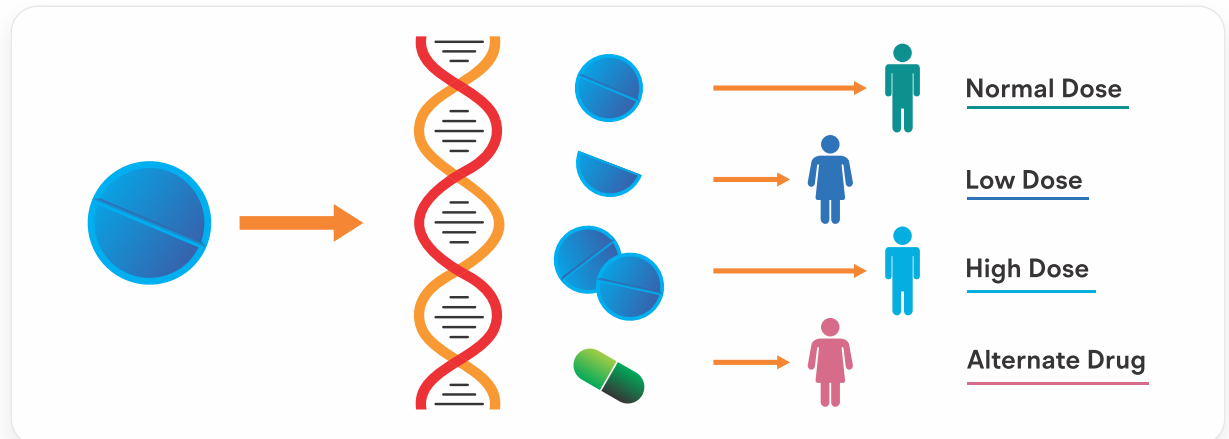


Ultrarapid Metabolizer

"LET YOUR DNA GUIDE YOU THROUGH PERSONALIZED MEDICATION"

INTRODUCING MEDNAwise

MEDNAwise is a pharmacogenomics test that predicts your response to specific medications based on your genotype. By opting for MEDNAwise testing, you will get an opportunity to understand which drug suits you best, manage your treatment and increase its effectiveness and reduce the risk of adverse drug reactions. MEDNAwise can also be used as predictive personalized medication guide for those who like to be one step ahead.



MEDNAwise Report Empowers You & Your Doctor to make informed decisions with regards to your treatment

Rx Helps Choose Best Suited Drug & Dosage for You

Helps Optimizing Cost of Treatment

Minimizing Trial & Error

Minimizing Adverse Drug Reaction.

Minimizing Chance of Treatment Failures.

Minimizing Time for Treatment by Increasing Effectiveness

WHO CAN TAKE THE TEST?

▶ Health-conscious individuals who are pro-active and want to be ready for the future.

This test must definitely be taken by individuals with the below mentioned conditions

- ▶ Anyone with personal or family history of adverse drug reaction(s).
- ▶ Those who are on multiple medications.
- ▶ When the treatment is not giving results.
- ▶ Elderly patients taking or starting certain specific medications.

Disclaimer: 1) Other genetic and clinical factors (age, gender, diet, comorbid conditions) may also influence a patient's response to the medication.

2) All changes in medications must be done under clinical supervision only.

3) This is a genetic test that can only predict response to specific medications. This test can not detect allergic reactions.

4) Information provided by pharmacogenomics report is based on response prediction result and does not constitute any medical diagnosis or medical prescription and is not a substitute in any way for advice from medical practitioner.



ANESTHESIOLOGY

- ▶ Desflurane
- ▶ Enflurane
- ▶ Halothane
- ▶ Isoflurane
- ▶ Methoxyflurane
- ▶ Sevoflurane
- ▶ Succinylcholine



CARDIOLOGY

- ▶ Clopidogrel
- ▶ Metoprolol
- ▶ Simvastatin
- ▶ Atorvastatin
- ▶ Rosuvastatin
- ▶ Fluvastatin
- ▶ Pravastatin
- ▶ Lovastatin
- ▶ Pitavastatin
- ▶ Propafenone
- ▶ Flecainide
- ▶ Warfarin
- ▶ Phenprocoumon
- ▶ Acenocoumarol
- ▶ Aspirin



CLINICAL TOXICOLOGY

- ▶ Dimercaprol



DERMATOLOGY

- ▶ Mafenide



DIABETOLOGY

- ▶ Glyburide
- ▶ Tolbutamide



GASTROENTEROLOGY

- ▶ Ondansetron
- ▶ Tropisetron
- ▶ Pantoprazole
- ▶ Omeprazole
- ▶ Lansoprazole
- ▶ Dexlansoprazole
- ▶ Sulfasalazine



GENERAL MEDICINE

- ▶ Vitamin C
- ▶ Vitamin K



GYNECOLOGY

- ▶ Hormal Contraceptives for systemic use



HEMATOLOGY

- ▶ Methylene Blue



HISTOPATHOLOGY

- ▶ Toluidine Blue



INFECTIOUS DISEASE

- ▶ Atazanavir
- ▶ Efavirenz
- ▶ Peginterferon Alfa-2a
- ▶ Peginterferon Alfa-2b
- ▶ Anti-tuberculosis Drugs
- ▶ Voriconazole
- ▶ Dapsone
- ▶ Primaquine
- ▶ Tafenoquine
- ▶ Nitrofurantoin
- ▶ 4-aminosalicylic Acid
- ▶ Chloramphenicol
- ▶ Chloroquine
- ▶ Ciprofloxacin
- ▶ Furazolidone
- ▶ Hydroxychloroquine
- ▶ Nalidixic Acid
- ▶ Norfloxacin
- ▶ Ofloxacin
- ▶ Phenazopyridine
- ▶ Quinine
- ▶ Sulfadiazine
- ▶ Sulfamethoxazole
- ▶ Sulfanilamide
- ▶ Sulfisoxazole
- ▶ Amikacin
- ▶ Paromomycin
- ▶ Plazomicin
- ▶ Tobramycin
- ▶ Sulfadimidine
- ▶ Gentamicin
- ▶ Kanamycin
- ▶ Streptomycin
- ▶ Ribavirin



NEUROLOGY

- ▶ Siponimod
- ▶ Zuclopentixol
- ▶ Phenytoin
- ▶ Atomoxetine



ONCOLOGY

- ▶ Capecitabine
- ▶ Fluorouracil
- ▶ Mercaptopurine
- ▶ Rasburicase
- ▶ Doxorubicin
- ▶ Tamoxifen



ORGAN TRANSPLANTATION

- ▶ Azathioprine
- ▶ Tacrolimus



PAIN MANAGEMENT

- ▶ Codeine
- ▶ Hydrocodone
- ▶ Tramadol
- ▶ Celecoxib
- ▶ Ibuprofen
- ▶ Lornoxicam
- ▶ Flurbiprofen
- ▶ Meloxicam
- ▶ Tenoxicam
- ▶ Piroxicam



PSYCHIATRY

- ▶ Venlafaxine
- ▶ Aripiprazole
- ▶ Amitriptyline
- ▶ Citalopram
- ▶ Clomipramine
- ▶ Doxepin
- ▶ Risperidone
- ▶ Escitalopram
- ▶ Imipramine
- ▶ Trimipramine
- ▶ Desipramine
- ▶ Sertraline
- ▶ Fluvoxamine
- ▶ Nortriptyline
- ▶ Haloperidol
- ▶ Paroxetine
- ▶ Quetiapine
- ▶ Vortioxetine



PULMONOLOGY



















- ▶ Ivacaftor
- ▶ Ivacaftor Lumacaftor
- ▶ Ivacaftor Tezacaftor



RHEUMATOLOGY

- ▶ Pegloticase

CONDITIONS COVERED UNDER MEDNAwise

CATEGORY	CONDITION/S	SPECIALIST/S
 Anesthesiology	General Anaesthesia (Muscle relaxants, etc)	Anaesthetist
 Cardiology	Hypertension, Heart attack, Lipid Disorders, Arterial blockages, Stroke, Heart disease, Heart Rhythm Disturbances, Anti Platelet, Anti Coagulant Action, Tachycardia	Cardiologist/General Medicine/ Neurologist
 Clinical Toxicology	Heavy Metal Poisoning	Clinical Toxicologist
 Dermatology	Bacterial and Fungal infections of Skin, Burns	Dermatologist
 Diabetology	Diabetes	Diabeteologist/General Medicine/ endocrinologist/Gerontologist
 Gastroenterology	Acid reflux, Nausea, Vomiting, Ulcerative colitis, Crohn's disease, Inflammatory bowel disease	General Medicine/Gynaecologist/ General Surgeon/Neurologist/ Cardiologist
 General Medicine	Scurvy, common cold, wound healing, antioxidant requirement, warfarin therapy, malabsorption disorders (like celiac disease, Crohn's disease, and certain liver diseases).	General Medicine/Cardiologist/ Gastroenterologist
 Gynecology	Hormonal Replacement Therapy	Gynaecologist
 Hematology	Methemoglobinemia	Hematologist
 Histopathology	Oral and thyroid malignancies related diagnostics	Histopathologist
 Infectious Disease	Bacterial, Fungal and Protozoan infections, Acne, Leprosy, Malaria, PCP Pneumonia, Urinary tract infections, Bacterial conjunctivitis, Extraintestinal amebiasis, Skin infections, Sexually transmitted infections, Respiratory tract infections, Aminoglycoside-induced hearing loss	Internal Medicine/Intensivists/ Infectious Disease Specialist/ Chest Physician/Urologist/ Pulmonologist/Ophthalmologist
 Neurology	ADHD (Attention deficit hyperactivity disorder), Multiple sclerosis, Schizophrenia, Psychosis, Epilepsy	Neurologist-Paediatric or Adult/General Medicine
 Oncology	Colorectal Cancer, Leukemia, Breast Cancer, Ovary Cancer, Bladder Cancer, Thyroid Cancer, Hodgkin Lymphoma, Soft Tissue and Bone Sarcomas	Oncologist/Gynaecologist (Tamoxifen)
 Organ Transplantation	Immunosuppression	Kidney and Liver Transplant specialist/ Nephrologist/ Hepatologist
 Pain Management	Pain management, Muscle and bone pain, Osteoarthritis, Rheumatoid arthritis ,Migraine, Ankylosing spondylitis, Anti-cough, Fever,	Orthopaedic/Internal Medicine/ Rheumatologist/Neurologist/Neuro Surgeon/General Surgeon/Urologist
 Psychiatry	Psychosis, Depression, Anxiety, Schizophrenia, PTSD (Post traumatic stress disorder), Panic attacks	Psychiatrist/Neurologist/ Internal Medicine
 Pulmonology	Cystic fibrosis	Chest Physician
 Rheumatology	Gout	Rheumatologist



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