

## We all respond to medicine differently.

Some people's bodies break down medicine at different rates. These differences are determined in part by your genes. They may also be affected by other medicines you are taking.

By knowing more about your genes and the interactions of different medicines, you can know more about how your body will metabolize the medicine you are taking.

This knowledge allows doctors to prescribe the right medicine and the right dose. Having the right medicine at the right dose will lower the chance of dangerous side-effects. It can also improve how the medicine works.

## Your Genes. Your Medicine.

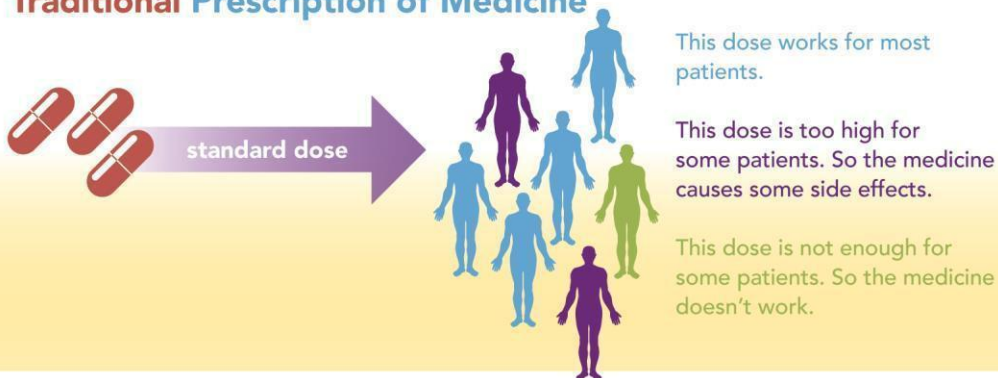
Genes are like our bodies' blueprint. They tell our bodies how to grow, how we look, and how to function. Everyone has some variation in their genes. This is what makes each person unique.

Some genes are instructions for how to make enzymes. Enzymes have different jobs in our body. Some enzymes break down (metabolize) medicine.

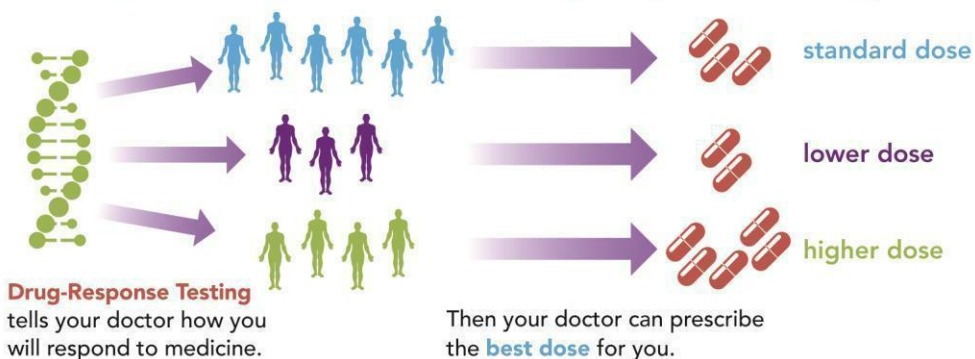
If there are changes in the gene, the instructions for how to make the enzyme will be changed. That enzyme will not be made correctly and will not be able to break down the medicine. If the enzyme cannot break down the medicine, the medicine may not work or may cause side-effects.

PGx testing looks for changes in the genes that affect how medicine works in your body.

### Traditional Prescription of Medicine



### Prescription of Medicine with Drug-Response Testing



## How will PGx testing help me?

Pharmacogenetic testing (PGx) will ensure that you are taking the best medicine at the best dose and make sure that your medicines are not going to interact negatively. It can help the doctor prescribe the medicine that works for you. That could mean fewer side effects, fewer visits to your doctor and less money spent on medicine that doesn't work. The test requires a buccal swab (1 swab). It will be sent to a testing company that tests for genes related to the medicine you are taking.

The physician will carefully review all of your prescriptions along with your results from the drug-response test. He/she may make suggestions to change the medicine or dose to improve how well the medicine works and reduce risk of side effects.

## PGx Testing

PGx testing is a service to help improve outcomes for patients taking multiple medications.

PGx testing is often conducted by geneticists who are experts in medications, their side effects, and how multiple medications may interact.

Doctors can help patients get the most benefit from their medications by identifying, preventing and resolving medication-related problems.

To improve patient benefit from their medications, a new test has recently become available called PGx testing.

PGx testing, also known as pharmaco-genetic testing uses genetic information to predict how you will respond to a medication.



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## PGx Testing

*Making Medicine Work for You  
Using Medication Therapy  
Management & PGx Testing*

