

## Can genetics influence your medication?

Each one of the trillions of cells that make up our body contains DNA (deoxyribonucleic acid), which holds all the information needed by a cell to function. DNA is grouped into units called “genes” that act as a set of instructions, and are passed down from parents to their children. Each person’s genetic makeup is unique, and this means people may react differently to the same medications. Depending on your genes, some medications can be more or less effective, and some medications may cause serious side-effects.



### Did you know?

For up to **97%** of the population, differences in DNA affect how medications react in their bodies.<sup>2</sup>

LifeLabs® offers a genetic test and provides access to a smart online tool to help you and your doctor tailor your medication to your unique genetic makeup and health profile.



Providing your doctor with smart tools for personalized care can help them to determine the safest and most effective medication with you.

### LIFELABS PARTNERS WITH GENXYS.

LifeLabs is pleased to announce a partnership with GenXys Health Care Systems to offer a service that helps physicians prescribe medications based on their patients’ specific medical and genetic profile. LifeLabs is working to deliver personalized medicine to Canadians based on the best evidence through this innovative partnership with GenXys.

## How do I order TreatGx<sup>Plus</sup>?

### Ordering is simple and easy.

Visit [www.LifeLabs.com](http://www.LifeLabs.com) to order TreatGx<sup>Plus</sup>.

### Your order includes:

- your pharmacogenetic test
- access to a report of your test results
- access to TreatGx<sup>Plus</sup> online decision support tool

**TreatGx<sup>Plus</sup> helped Ethan to be confident in his treatment, after his uncle had a severe reaction to allopurinol, the drug used for controlling gout.**

“My doctor wanted to give me the same drug, because I have been getting more attacks and having a lot of pain, but I was very worried about the risk of a bad reaction. My doctor suggested getting the TreatGx<sup>Plus</sup> genetic test. After I got my results my doctor used the TreatGx<sup>Plus</sup> application to show me that I do not have the variant that could cause the same reaction that affected my uncle. I started the allopurinol and have had no problems and the gout is now much better.”

- Ethan M.

Learn more about the TreatGx<sup>Plus</sup> service by visiting [www.LifeLabs.com](http://www.LifeLabs.com).

**References:** 1. NIH U.S. National Library of Medicine. What is pharmacogenomics? 2017. Available at: <https://ghr.nlm.nih.gov/primer/genomicresearch/pharmacogenomics>. Accessed on February 13, 2017. 2. Dawes M, et al. Introducing pharmacogenetic testing with clinical decision support into primary care: a feasibility study. *CMAJ open*. 2016;4(3), E528.

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## Get the right medication for you, right from the start.

**TreatGx<sup>Plus</sup> helps provide safe, effective medication options.**



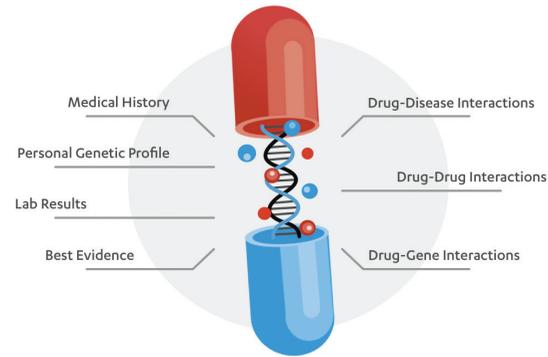
Smart tools for personalized care

Brought to you by:



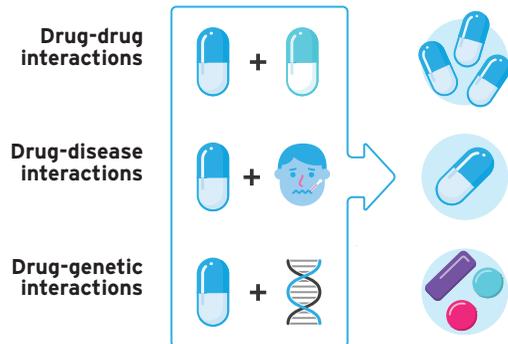
## What is the TreatGx<sup>Plus</sup> service?

TreatGx<sup>Plus</sup> is a smart online tool that helps you and your doctor identify safe and effective medications that are right for you, right from the start. TreatGx<sup>Plus</sup> combines your pharmacogenetic and medical profile with the best evidence.



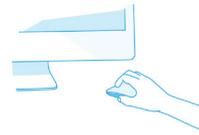
## How does the TreatGx<sup>Plus</sup> service work?

The service incorporates a variety of potential interactions that affect how medications work in your body, adjusting medication options based on:



Any of these interactions can cause an adverse drug reaction which is an appreciably harmful or unpleasant response. These can range from a mild rash to a severe life-threatening situation. TreatGx<sup>Plus</sup> can help identify if you are at increased risk of experiencing an adverse drug reaction, so that a safer medication can be prescribed.

## How can I get started?



**STEP 1**

**Purchase your kit online and create your personalized profile**  
After placing your order, you will be prompted to create an online profile and enter information about your health.



**STEP 2**

**Collect your sample**  
Use the swab provided in the kit to collect a cheek swab and send it to the lab for genetic analysis.



**STEP 3**

**Lab analysis of your sample**  
Your DNA will be analyzed and the results made available through the simple online tool.



**STEP 4**

**Share your personalized profile with your doctor**  
Your test results will enable you and your doctor to make more informed decisions about your health.

## FAQs

### What is pharmacogenetic testing?

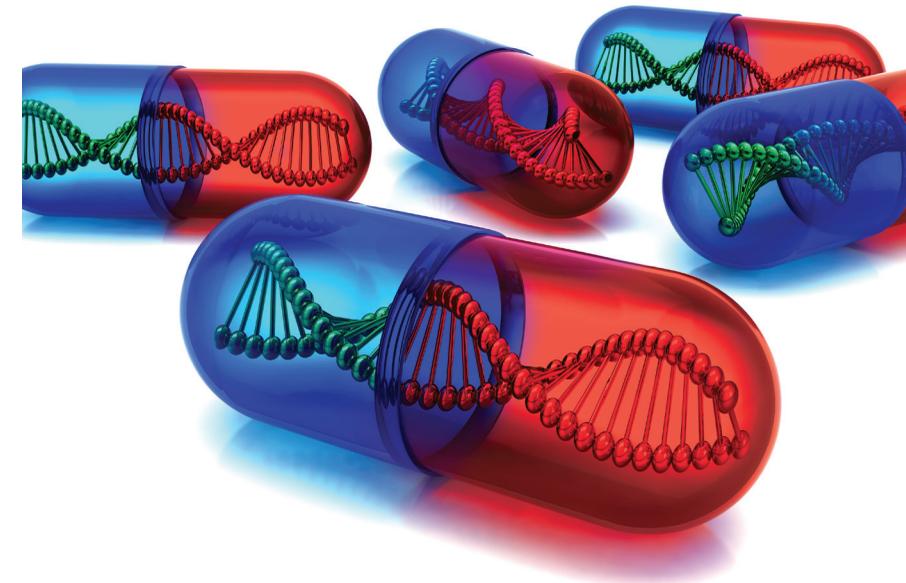
Depending on your genetic makeup, some medications may work more effectively, less effectively, or cause side-effects. The TreatGx<sup>Plus</sup> service tells you about the different ways your body may react to medications. These results can be used to help you and your doctor select the best medication and dosing for you.

### Can pharmacogenetic testing tell me if I have an increased risk of certain medical conditions?

The TreatGx<sup>Plus</sup> service helps you make better medication choices by identifying only those areas of your genes that interact with medications. The test will not tell you or your doctor about diseases that you might get, for example; cancer, vascular disease, or Alzheimer's disease.

### Can my ancestry be identified?

No, the TreatGx<sup>Plus</sup> service does not help identify your ancestry. Unlike other genetic tests, the TreatGx<sup>Plus</sup> service is designed only to tell you about your medication choices.



Unlike other pharmacogenetic test services, TreatGx<sup>Plus</sup> includes an online tool that can help you and your doctor make more informed and personalized decisions about your healthcare.