



## **Your SLCO1B1 Genetic Test Results and What They Mean**

### **SLCO1B1: Indeterminate Function**

#### **Pharmacogenomic Testing Overview**

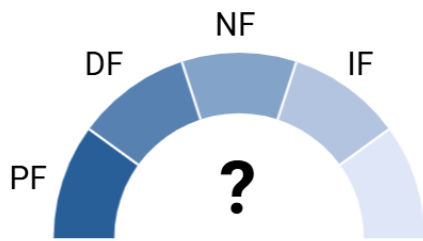
Pharmacogenomic (PGx) testing looks at how your genes affect your response to certain medications. Genes are pieces of DNA that provide instructions to make our bodies look and work as they do. Some genes affect the way medications work in the body. When comparing a group of people, there can be slight differences in the structure of each person's genes. These differences can affect how people respond to medications.

Some gene differences might make it harder for the body to get rid of some medications. This means that the usual dose of the medication may cause unexpected side effects. Some gene differences can cause the body to use up a medication too fast. This means that normal doses will not work as well, and the person may need higher doses. Some gene differences will not let certain medications work in the body at all. This means a different medication may work better. Some gene differences increase your chances of side effects to medications. This means that you may need to avoid certain medications.

This gene test may have been part of a panel of genes or a single gene test. The results and affected medications described below may not be relevant to your current care, but could be in the future.

#### **About the SLCO1B1 Gene**

The test we did was for a gene called the solute carrier organic anion transporter family member 1B1 (abbreviated SLCO1B1). This gene makes a transporter that helps move medications from outside our cells to inside them. This helps medications reach their target destination in our bodies, where the medication performs its desired function. Depending on how well this transporter functions can impact how medications are dosed and your risk of side effects. It is common to have slight variations in the SLCO1B1 gene that affect how the transporter works. Depending on these variations, people are considered to have Poor (PF), Decreased (DF), Normal (NF), Increased Function (IF), or Indeterminate Function.



**Your SLCO1B1 result puts you in the indeterminate function group.** In people who have indeterminate function, the SLCO1B1 transporter function is not known. Less than 1% of our patients have indeterminate function for SLCO1B1. Certain genetic variants are rare, so we do not currently know how the SLCO1B1 transporter functions in all patients. In the future as more research is done, we may be able to assign you to one of the SLCO1B1 function groups shown in the figure.

The following medications interact with the SLCO1B1 transporter:

**Statins** (used to treat high cholesterol): atorvastatin, fluvastatin, lovastatin, pitavastatin, pravastatin, simvastatin, rosuvastatin

***Do not make any adjustments to your medications without first speaking to your healthcare provider.***

Because your genes stay the same even as you age, it is important for you to share this result with your other doctors and pharmacists outside Children's Mercy. This result may affect how doctors prescribe medications throughout your life.

### **More Information**

- Research continues to be done on what medications are affected by genetic test results. For more details about the SLCO1B1 gene, please go to [www.clinpgx.org](http://www.clinpgx.org).
- If you have questions about your pharmacogenetic test results or specific treatment options, discuss them with your healthcare provider or call 816-601-3360 to schedule an appointment at the Children's Mercy GOLDILOKs Clinic.
- If interested in volunteering for pharmacogenetic research, please contact the Children's Mercy Research Institute at [pharmacogeneticsresearch@cmh.edu](mailto:pharmacogeneticsresearch@cmh.edu).

*Revised October 2025*