



Your SLCO1B1 Genetic Test Results and What They Mean

SLCO1B1: Increased Function

Pharmacogenomic Testing Overview

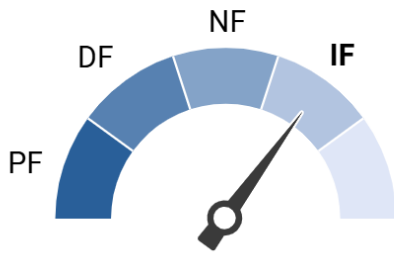
Pharmacogenomic (PGx) testing looks at how your genes affect your response to certain medications. Genes are pieces of DNA that provide instructions to make our bodies look and work as they do. Some genes affect the way medications work in the body. When comparing a group of people, there can be slight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



Your SLCO1B1 result puts you in the increased function group. People who have increased function for SLCO1B1 often need standard doses of medications that interact with this transporter. About 3% of our patients have increased function for SLCO1B1. Your healthcare providers can use your test results to help decide what medications and what dose may be the best for you.

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.
- 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.

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