



IU Health Physicians

January 10, 2023

<FName LName>
<Street Address #1>, <St Address #2>
<City>, <St> <zip>

Dear PATIENT NAME,

You recently had a blood test that checked for a gene called CYP2C19, which affects how your body processes some medicines. Your cardiologist is aware of this test result and has already taken it into account when prescribing your medicine.

Your result has been placed in your electronic health record. This letter provides you with information about this test result. You can find more information about pharmacogenomics testing in the enclosed brochure.

WHAT IS YOUR TEST RESULT AND WHAT DOES IT MEAN?

Your test showed that your CYP2C19 gene is a type that leads your body to process Clopidogrel (Plavix®) and certain other medicines slower than normal. The medical term for your type of CYP2C19 gene is *Poor Metabolizer*.

The CYP2C19 gene can change the effectiveness and chance of side effects of the following medications:

- Clopidogrel (Plavix®), which is used to thin the blood, to help keep blood flowing through blood vessels and stents;
- Proton pump inhibitors such as Omeprazole (Prilosec®) and Esomeprazole (Nexium®), which treat heartburn (also called “reflux,” or “GERD”), gastritis, and ulcers;
- Citalopram (Celexa®), which treats anxiety and depression;
- Amitriptyline (Elavil®), which treats pain, headaches, and depression and
- Voriconazole, which treats some fungal infections.

WHAT SHOULD YOU DO?

STEP 1: If you have any questions about medicines you are now taking, you should speak to your healthcare provider. It is very important that you **do not stop or start** taking any prescription medicine on your own, without speaking to your healthcare provider.

STEP 2: You should tell all of your future healthcare providers that you have the *Poor Metabolizer* CYP2C19 gene.

STEP 3: This letter comes with a wallet-sized card that says that you have this type of CYP2C19 gene and lists the medicines that are affected. **Please keep this card with you as a reminder to discuss your test results with any doctor in the future.**

Sincerely,
Indiana University Health Cardiology

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