

Cytochrome P450 2C19 GenotypR™ INFORMED CONSENT

1. **What is CYP450 2C19 Genotyping?** This test looks for the common mutations that are found in the Cytochrome P450 2C19 (CYP2C19) gene.
2. **What is the purpose of this test and what are its limitations?** Cytochrome P450 2C19 is responsible for metabolizing a series of drugs such as anticonvulsants. The CYP2C19 genotyping result identifies individuals belonging to one of the two enzymatic activity categories: extensive and poor metabolizer. Those categories may affect your physician's choice of optimal dosing for one or more therapeutic drugs prescribed so as to minimize side effects and achieve optimal levels of the therapeutic drug or drugs in your bloodstream. The CYP2C19 genotyping result can assist your physician in safely avoiding use of drug dosing levels that may be associated with toxicity in few patients. The test identifies the most common variants of this gene, but is not designed to identify some rare mutations.
3. **What is required to perform this test?** You will be asked to provide 5 mL of blood, which is equal to about one tablespoon. DNA will be extracted from this blood sample and tested. The only discomfort that you may feel is the stick of the needle in your arm. You may also experience a small bruise at the site of the needle puncture. You will also be asked to provide information regarding your medical history, which is necessary for proper interpretation of your test result. In the unlikely event that you should be injured in the course of being tested, your physician will provide any necessary medical care. However, you would be expected to bear the cost of such medical care. Compensation will not be provided in the event of any injury.
4. **Is there a cost for this test?** This is a routine clinical laboratory test and the results may aid in your diagnosis; thus, you or your health insurer will be billed for this procedure.
5. **What will happen to the DNA once the test is complete?** The original blood sample will be discarded at the end of the testing process or stored not more than 60 days. The DNA will be retained for a minimum of 6 months. In some circumstances, a patient's DNA may be used anonymously as a negative or positive control sample in future testing, but, in this circumstance, all identifiers will be removed prior to re-testing and the DNA sample and results obtained will remain anonymous.

I understand and agree that my DNA remaining after testing may be stored for up to 6 months should additional testing be required. *Please initial.*

6. **How will I obtain results from this test?** DNA testing and interpretation of results are complex. The information from this test will be provided in the form of a written report to your physician who will inform you of the results. The laboratory will not provide results directly to patients. Patient may have genetic counseling prior to signing the consent form. To the extent permitted by law, all of your laboratory records and results are confidential and shall not be disclosed without your written authorization.

Patient Attestation of Informed Consent:

My signature below indicates that I have received information about this test, **Cytochrome P450 2C19 GenotypR™**, and that I have read and understood the material in this document. I have been given a full opportunity to ask questions that I may have about the testing procedure and related issues. I agree to undergo this testing.

Patient Signature

Date

Signature of Parent/Guardian if Patient is a minor

Print Name of Parent/Guardian

For the Physician:

As the referring physician, I understand the benefits and limitations of this study and have requested that the above-named patient be tested. I attest to the fact that I have provided the patient with the information contained above and fully answered any questions. I believe that the patient understands the information and is voluntarily signing this informed consent.

Signature of Physician/Health Care Professional

Print Name of Physician/Health Care Professional