

AUTHORIZATION FOR THE MOLECULAR TEST FOR MTHFR 677C>T

Patient Name:		MR#:	
Account #:	DOB:	Date:	

MTHFR 677C>T Methyl tetrahydrofolate reductase (MTHFR) is an enzyme made by our bodies under the direction of the MTHFR gene. The MTHFR enzyme is part of a metabolic pathway the body uses to make proteins and other important compounds. A change or mutation in the MTHFR gene can lead to the body making MTHFR enzyme that does not work like it should. One such genetic change is called MTHFR 677C>T. The MTHFR 677C>T gene change (and its effect on MTHFR enzyme function) may result in a condition called hyperhomocysteinemia when blood folate levels are low. Hyperhomocysteinemia involves build-up of homocysteine in the blood and is treatable by supplementing the diet with folic acid. Everyone has two copies of the MTHFR gene. An individual may have two normal copies, two abnormal copies, or one normal and one abnormal. Only individuals with two abnormal copies of 677C>T have been found to be at increased risk of hyperhomocysteinemia. Two abnormal copies of 677C>T have been found in about 10% of the general population. In addition, some studies have found two abnormal copies of 677C>T at higher frequency than is seen in the general population in individuals with the following disorders: thrombosis, coronary heart disease, inflammatory bowel disease, schizophrenia, pre-eclampsia, colon cancer, recurrent fetal loss, having a child with a neural tube defect or IUGR. The precise relationship between the 677C>T mutation and these disorders is unclear.

Molecular Test for MTHFR 677C>T You will be required to donate 10 mL of blood, which is equal to about two teaspoons. In addition, you may be asked to provide information regarding your medical history. A correct history is critical for proper interpretation of the data. This is a routine clinical laboratory test so you or your health insurer will be billed for the procedure

Significance of the Results The significance of the results of this test will depend on whether 677C>T mutations are identified as well as what other risk factors or symptoms are also present. For example, the finding of two mutations in an individual with symptoms is suggestive that the 677C>T mutations may be associated with a clinical disorder. To understand your results, you should consult your physician and may wish to consider further independent testing or pursue genetic counseling.

Limitations The MTHFR 677C>T mutation is the only genetic variation that will be tested for. If the 677C>T mutation is not found by the testing procedure, it does not mean that the risk of carrying or developing the above disorders is no longer present. It simply means that this particular mutation has not been found although other mutations could be present in this or other genes. It is also possible that you may be predisposed to have one of the above disorders due to non-hereditary causes, which would also not be detected by this test.

Results from the test The test result will be provided to health care professionals directly involved in your care. Genetic counseling may also be appropriate as follow up. To the extent permitted by law, all of the records, findings, and results of this test are confidential and shall not be disclosed without your written consent specifically authorizing to whom such records, findings, and results are to be released. In accordance with NYS law, any remaining DNA will be discarded unless it is retained as a laboratory control, in which case all information identifying the DNA to you will be removed.

Key: MTHFR = Methylenetetrahydrofolate reductase, IUGR = Intrauterine growth restriction

(continued on pg. 2)

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ion of my consent by crossin	ent and understand its contents. In addition, I under g off and initialing unacceptable statements. Plea ill result in the testing being cancelled.		
	out the test to be performed, you may also wish to out the Molecular Diagnostics Laboratory at (315) 4		
Patient's Name (printed):		Patient's Medical Record Number: (for office use only)	
eferring physician), or other	number, and address (if known) of all health care individuals/organizations (such as a health insurer results cannot be sent to a patient, a patient's famil	r) to whom you authorize the release of the	
Name and Title	Address	Phone Number	
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