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NutriPATH
Integrative Pathology Services

JOE DOE

Date of Birth: 08-Jan-1985
Sex: M
Collected: 31/Oct/2019
Received: 31/Oct/2019
INTERNATIONAL PATIENT 1000
Lab id: **3640442** UR#:

Dr.EDWARD CHAN

International Psychology Centre 11-1 Wisma Laxton Jalan Desa KUALA LUMPUR MALAYSIA 58100 1000

GENOMIC_ASSESSMENTS

BLOOD - EDTA	Result	Range	Units

MTHFR Gene Mutation

MethyleneTetraHydroFolate Reductase (MTHFR) Gene Mutation.

MTHFR Gene Mutation (C677T): Heterozygous for the mutation.
MTHFR Gene Mutation (A1298C): Heterozygous for the mutation.

Comment:
The patient has one copy of the MTHFR C677T mutation and one copy of the A1298C mutation.
This is associated with increased in plasma homocysteine levels.

MethyleneTetraHydroFolate Reductase (MTHFR) is a regulatory enzyme in folate-dependent homocysteine remethylation.
A common polymorphism in the MTHFR gene at position 677 is associated with a thermolabile enzyme with decreased activity. The prevalence of the homozygous mutation ranges from 8- 18% in various populations.
Clinically, homozygotes for the mutation have an increased risk of thromboembolism as well as premature vascular disease.
A second mutation (A1298C) has also been described. This mutation is associated with an increased risk of thromboembolism, when only found together with the C677T mutation.

Tests ordered: IMPEI,CFee,MTHFR