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Limitations

- Diagnostic errors can occur due to rare sequence variations.
- QF-PCR cannot detect any mutations that lie outside the target sequence of the markers.

References

- Mitchell RS, Kumar V, Abbas AK, Fausto N (2007). "Chapter 4".Robbins Basic Pathology (Eighth ed.). Philadelphia: Saunders. ISBN 1-4160-2973-7.
- Heit JA (2007)."Thrombophilia: common questions on laboratory assessment and management". Hematology Am. Soc. Hematol. Educ. Program 2007 (1): 127–35.- doi:10.1182/asheducation-2007.1.127. PMID 18024620.
- Kyrle PA, Rosendaal FR, Eichinger S (December 2010). "Risk assessment for recurrent venous thrombosis". Lancet 376 (9757): 2032–9. doi:10.1016/S0140-6736(10)60962-2. PMID 21131039.
- Rosendaal FR (2005). "Venous thrombosis: the role of genes, environment, and behavior". Hematology Am. Soc. Hematol. Educ. Program 2005(1): 1–12. doi:10.1182/asheducation2005.1.1. PMID 16304352.
- Crowther MA, Kelton JG (2003). "Congenital thrombophilic states associated with venous thrombosis: a qualitative overview and proposed classification system". Ann. Intern. Med. 138 (2): 128–34. doi:10.7326/0003-4819-138-2-200301210-00014. PMID 12529095. Lay summary.
- Scarvelis D, Wells PS (October 2006). "Diagnosis and treatment of deep-vein thrombosis". CMAJ 175 (9): 1087–92. doi:10.1503/cmaj.060366. PMC 1609160. PMID 17060659.
- Rai R, Regan L (August 2006). "Recurrent miscarriage". Lancet 368 (9535): 601–11. doi:10.1016/S0140-6736(06)69204-0. PMID 16905025.

About Greenarray

Greenarray is a molecular diagnostic laboratory. We offer diagnosis of infectious diseases, genetic testing and healthcare information to improve health and wellness. Our goal is to provide high quality affordable and accessible services.

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Thrombophilia Genetic Testing

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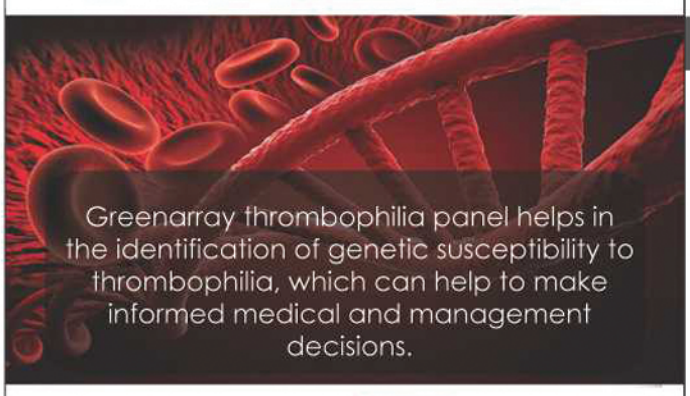
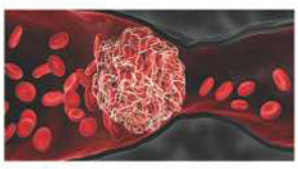
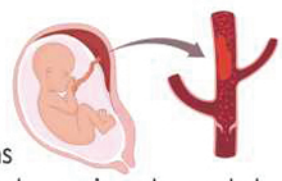


Greenarray thrombophilia panel helps in the identification of genetic susceptibility to thrombophilia, which can help to make informed medical and management decisions.

- Thrombophilia is a condition where there is an increased tendency of body to form abnormal blood clots (thrombosis) which can partly or completely block the flow of blood in blood vessels.



- Thrombophilia is usually characterized into two types-acquired and inherited. Inherited thrombophilia results due to a genetic predisposition inherited from their parents.
- Women with hereditary thrombophilia are at an increased risk of pregnancy complications like pregnancy loss, preeclampsia, placental abruption , intrauterine growth retardation and still birth.



Genetic markers of inherited thrombophilia

The most common genetic thrombophilias known to predispose to venous thrombosis are: factor V Leiden (FVL), methylenetetrahydrofolate reductase mutation (MTHFR) prothrombin (FII) and plasminogen activator inhibitor-1 (PAI-1) gene mutations.

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Indications of testing

- Patients with venous thrombosis, coronary artery disease, and /or stroke of unknown etiology.
- Asymptomatic individuals with a family history of thrombosis.
- Individuals with family members known to have Factor V Leiden, Prothrombin, MTHFR and PAI-1 gene mutations.
- Women with recurrent pregnancy loss, early onset preeclampsia, intra uterine growth restriction, placental abruption, and unexplained still birth.

Methodology

OR

Sample
Blood (3-5 ml in EDTA tubes) or Extracted DNA samples (1µg high quality DNA)

DNA isolation

QF-PCR

Data Analysis and Reporting