DNA TESTS FOR EVALUATION OF
THROMBOTIC RISK

BloodCenter of Wisconsin offers 5 DNA tests for assessment of genetic risk factors for thrombotic predisposition.

- Factor V Leiden (1691 G>A)
- Glycoprotein Ia Genotyping (807 C>T)
- Methylene-tetrahydrofolate Reductase (MTHFR) (677 C>T)
- Prothrombin Gene Mutation (20210 G>A)

BACKGROUND:
Thrombotic predisposition appears to result from the interplay of inherited and acquired risk factors. Genetic defects of coagulation or regulatory proteins, or of other factors, may predispose an individual to thrombosis. Considerable evidence supports the concept that thrombotic increases with the number of risk factors present.

REASONS FOR REFERRAL:
Assessment of risk factors in individuals with a history of thrombosis or cardiovascular disease.

METHOD:
Factor V Leiden, Prothrombin Gene Mutation, MTHFR – sequence specific FRET hybridization
Glycoprotein Ia – allele specific PCR

LIMITATIONS:
New variant alleles that possess polymorphisms within the region targeted by the oligonucleotide primers may not be identified with this assay. Severe leukopenia may compromise DNA extraction, and in marrow transplant patients, DNA extracted will reflect donor genetic traits rather than those of the patient.

SPECIMEN REQUIREMENTS:
5 ml EDTA or citrate whole blood, collected and shipped at room temperature.

SHIPPING REQUIREMENTS:
Place the specimen and the test requisition form into plastic bags and seal. Insert into a Styrofoam container; place into a sturdy cardboard box, tape securely and ship by an overnight carrier. Ship the package in compliance with your overnight carrier guidelines. Please notify the laboratory if shipping on Friday, Saturday or the day before a holiday. Label with the following address:

Client Services/Hemostasis Reference Laboratory
BloodCenter of Wisconsin
638 N. 18 Street
Milwaukee, WI 53233
800-245-3117, ext. 6250
TURNAROUND TIME: 3-6 days

<table>
<thead>
<tr>
<th>TEST</th>
<th>CPT CODES</th>
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<td>Factor V Leiden (G1691A)</td>
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<td>Glycoprotein Ia Genotyping (C807T)</td>
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<td>MTHFR (C677T)</td>
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<td>Prothrombin Gene Mutation (G20210A)</td>
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REFERENCES: