

## Familial Mediterranean Fever

This test identifies that common mutations associated with Familial Mediterranean Fever (FMF) from DNA isolated from blood specimens.

### Testing Method and Background

The FMF Strip Assay (Vienna Lab) covers 12 MEFV mutations. Confirmation of homozygous and compound heterozygous mutations identified by the FMF Strip Assay is performed by restriction fragment length polymorphism (RFLP) or by sequencing, as appropriate.

Familial Mediterranean Fever (FMF) is an autosomal recessive genetic disorder, caused by mutations in the MEFV gene on chromosome 16, characterized by recurrent episodes of fever and inflammation lasting from 1-3 days with intervals between attacks varying from days to months. Most patients will experience some form of abdominal symptoms, and many have pleural attacks. Arthralgias, myalgia and arthritis are common. Attacks may be accompanied by a skin rash. The most serious complication of FMF is the development of amyloidosis, which may affect several organs, particularly the kidney, leading to end-stage renal failure. Symptoms of FMF usually present in childhood, before age 10 in the majority of patients. The disease primarily affects populations of Mediterranean origin.

### Highlights of Familial Mediterranean Fever Testing

#### Targeted Region

**MEFV:** Genotyping 12 common mutations

- **Accounts for > 90% of MEFV mutations associated with FMF**  
Identifies common mutations in the MEFV gene on chromosome 16.

### Ordering Information

**Get started (non-HFHS):** Print a Molecular Hematologic Testing requisition form online at [www.HenryFord.com/HFCPD](http://www.HenryFord.com/HFCPD)

**Get started (HFHS):** Order through Epic using test "FMF" (DNpA2100004)

#### Specimen requirements:

- Peripheral Blood - 1-3ml in lavender top tube (EDTA) **Specimen stability: Ambient - 72 hours; Refrigerated - 1 week**
- Extracted DNA - from a CLIA-certified Laboratory

**Cause for Rejection:** Clotted, hemolyzed, or frozen specimens, improper anticoagulant, tubes not labeled with dual patient identification, non-dedicated tubes.

**TAT:** 9-16 business days (after Prior Authorization obtained)

**CPT Codes:** 81402, G0452

**Mail test material to:**  
**Henry Ford Center for Precision Diagnostics**  
Pathology and Laboratory Medicine  
Clinic Building, K6, Core Lab, E-655  
2799 W. Grand Blvd., Detroit, MI 48202

**Contact us:** Client Services, Account and Billing Set-up, and connect with a Molecular Pathologist at (313) 916-4DNA (4362)

**For more information on Comprehensive Molecular Services, visit our website**  
[www.HenryFord.com/HFCPD](http://www.HenryFord.com/HFCPD)

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