

# Myeloperoxidase (MPO)

CPT Code: 83876

Sample Type: Plasma

Order Code: 9142

Tube Type: EDTA(Lavender-top)tube

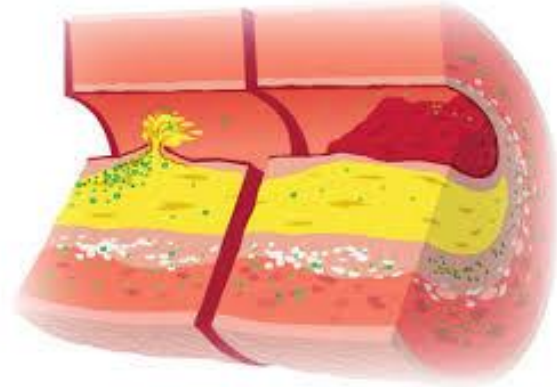


MPO levels are associated with an increased risk for:

- Coronary heart disease (CHD)
- Myocardial infarction (MI)

MPO levels can be measured in:

- Asymptomatic individuals
- Individuals at risk for pre-diabetes/diabetes
- Individuals with CAD



## Clinical Use:

The MPO test may be performed on individuals at intermediate or high risk for developing coronary heart disease who are any age with at least two major risk factors, those  $\geq 65$  years of age with one major risk factor, smokers, those with a fasting blood glucose of  $\geq 100$  mg/ dL, or those who have metabolic syndrome.

## Days Performed:

Mondays- Saturday

## Reference Range:

<420 Normal

$\geq 480$  High

## Clinical Significance:

- Elevated MPO levels predict the risk of heart disease in subgroups otherwise associated with low risk<sup>4,5</sup>.
- Elevated MPO levels independently predict the risk of future cardiovascular events in patients presenting with an acute coronary syndrome<sup>6,7</sup>.
- Individuals with elevated MPO levels are more than 2x as likely to experience cardiovascular mortality<sup>8</sup>.
- MPO enhances cardiovascular risk prediction when used independently or alongside standard biomarker testing such as hsCRP<sup>8</sup>.
- MPO levels are not likely to be elevated due to chronic infections or rheumatologic disorders due to the fact that free MPO in the blood is a **specific marker** of vascular inflammation and vulnerable plaque/erosions/fissures.



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