



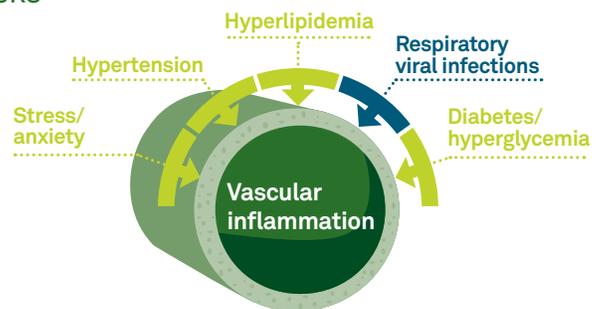
Biomarker testing provides critical insight into the **elevated cardiovascular risks** associated with COVID-19

Cardiovascular risk associated with severe upper respiratory infections like COVID-19 is well documented, and shows that patients with underlying conditions like obesity, hypertension, chronic lung disease, diabetes, and history of cardiovascular disease are especially affected by complications from COVID-19.¹

Viral infections lead to an increase in risk for heart attacks

In a recent study, researchers demonstrated that **patients are far more likely to have a myocardial infarction (MI) within 7 days of a viral infection** than prior to the infection (≤ 65 yo - 2.4x increased risk, > 65 yo - 7.3x increased risk).²

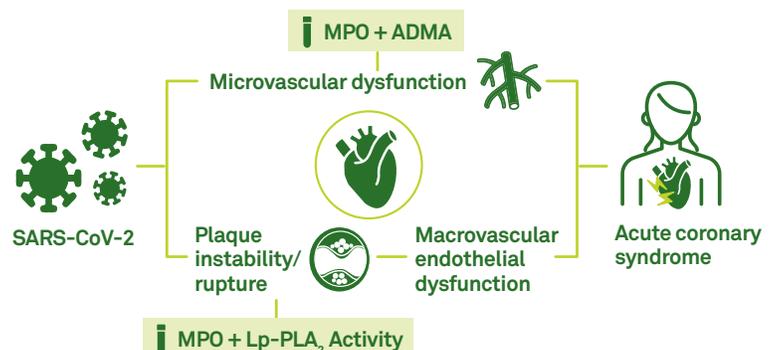
The increase in MI rate is thought to be driven by the **increase in vascular inflammation and risk of plaque rupture** due to respiratory viral infection.



Understanding a patient's prior cardiovascular risk profile will help you identify those patients in need of more aggressive management in order to optimize their outcome should they become exposed to COVID-19.

Biomarker testing provides critical insight

A biomarker assessment of specific vascular inflammation markers associated with risk can help you identify patients who have vulnerable plaque and who may benefit from preventative care and risk factor mitigation.



Helping you identify those most at risk

Quest Diagnostics biomarker testing provides critical insight into elevated cardiovascular risk.

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<p>Test patients with SARS-CoV-2 (COVID-19) antibody tests</p> <p>How to test:</p> <ol style="list-style-type: none">Order via Quanam® Lab Services Manager or your EHR systemBlood draw in the office or at a Patient Service Center (PSC)Review results <p>SARS-CoV-2 Serology (COVID-19) Antibody (IgG), Immunoassay</p> <p>Test code: 39504 CPT code*: 86769 Specimen: Serum Volume: 0.5mL Container: Gel-barrier tube (SST)</p>	<p>If patients test negative for antibodies with one or more underlying cardiovascular risk factors, consider evaluating for vascular inflammation through biomarker assessment.</p> <p>Underlying risk factors and conditions include:</p> <ul style="list-style-type: none">Age 65 or olderHistory of elevated HbA1c (>6.5%)Diagnosed cardiovascular diseaseDiagnosed hypertensionObesity (BMI ≥30)History of elevated myeloperoxidase (≥ 540 pmol/L within past 2 yrs) <table border="0"><tr><td><p>Cardio IQ® Myeloperoxidase (MPO)</p><p>Test code: 92814 CPT code*: 83876 Specimen: EDTA Plasma Volume: 0.5mL Container: EDTA (Lavender Top)</p></td><td><p>ADMA/SDMA</p><p>Test code: 94153 CPT code*: 82542 Specimen: Serum Volume: 0.5mL Container: SST, Tiger Top</p></td><td><p>Cardio IQ® Lp-PLA₂ Activity</p><p>Test code: 94218 CPT code*: 83698 Specimen: Serum Volume: 0.5mL Container: SST, Tiger Top</p></td></tr></table>	<p>Cardio IQ® Myeloperoxidase (MPO)</p> <p>Test code: 92814 CPT code*: 83876 Specimen: EDTA Plasma Volume: 0.5mL Container: EDTA (Lavender Top)</p>	<p>ADMA/SDMA</p> <p>Test code: 94153 CPT code*: 82542 Specimen: Serum Volume: 0.5mL Container: SST, Tiger Top</p>	<p>Cardio IQ® Lp-PLA₂ Activity</p> <p>Test code: 94218 CPT code*: 83698 Specimen: Serum Volume: 0.5mL Container: SST, Tiger Top</p>	<p>For those patients found to have an elevation in one or more inflammation markers, consider reassessing cardiovascular risk factors and providing preventative care when applicable.</p>
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* CPT codes are based on American Medical Association guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.

Meeting your testing needs

The Quest Diagnostics network of 2,250 Patient Service Centers (PSCs) have kept the doors open for essential testing services. Our Peace of Mind program has enhanced safety features consistent throughout the day for all patients.

Quest Diagnostics PSCs also offer SARS-CoV-2 (COVID-19) antibody testing. Staff and patients with a physician's order can make appointments for SARS-CoV-2 (COVID-19) antibody testing at [Appointment.QuestDiagnostics.com](https://www.questdiagnostics.com/questdirect). They can also visit [QuestDirect™](https://www.questdiagnostics.com/questdirect) and order a test directly.

Count on us



Quest has the COVID-19 and biomarker testing to help you and your patients get the care they need. Talk to your Quest sales representative or call **1.866.MYQUEST (1.866.697.8378)**

Delivering Peace of Mind at our PSCs

- Social distancing
- All patients are required to wear a mask or face covering
- More frequent cleaning
- Safeguarding patient health with employee masks and PPE
- Wait by Text program



The antibody tests (sometimes known as the serology tests or IgG tests) are intended for use as an aid in identifying individuals with an adaptive immune response to SARS-CoV-2, indicating recent or prior infection. Results are for the detection of SARS-CoV-2 antibodies. IgG antibodies to SARS-CoV-2 are generally detectable in blood several days after initial infection, although the duration of time antibodies are present post-infection is not well characterized. At this time, it is unknown for how long antibodies persist following infection and if the presence of antibodies confers protective immunity. Individuals may have detectable virus present for several weeks following seroconversion. Negative results do not preclude acute SARS-CoV-2 infection. If acute infection is suspected, molecular testing for SARS-CoV-2 is necessary. The antibody test should not be used to diagnose acute SARS-CoV-2 infection. False positive results for the antibody test may occur due to cross-reactivity from pre-existing antibodies or other possible causes.

- The antibody tests and the molecular tests (together "All tests") have not been FDA cleared or approved;
- All tests have been authorized by FDA under EUAs for use by authorized laboratories;
- The antibody tests have been authorized only for the detection of IgG antibodies against SARS-CoV-2, not for any other viruses or pathogens;
- The molecular tests have been authorized only for the detection of nucleic acid from SARS-CoV-2, not for any other viruses or pathogens; and,
- All tests are only authorized for the duration of the declaration that circumstances exist justifying the authorization of emergency use of in vitro diagnostics for detection and/or diagnosis of COVID-19 under Section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1), unless the authorization is terminated or revoked sooner.

References

- Garg S, Kim L, Whitaker M, et al. Hospitalization rates and characteristics of patients hospitalized with laboratory-confirmed coronavirus disease 2019 - COVID-NET, 14 states, March 1-30, 2020. *MMWR*. 2020;69(15):458-464. doi: 10.15585/mmwr.mm6915e3
- Kwong JC, Schwartz KL, Campitelli MA, et al. Acute myocardial infarction after laboratory-confirmed influenza infection. *N Engl J Med*. 2018;378(4):345-353. doi: 10.1056/NEJMoa1702090

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