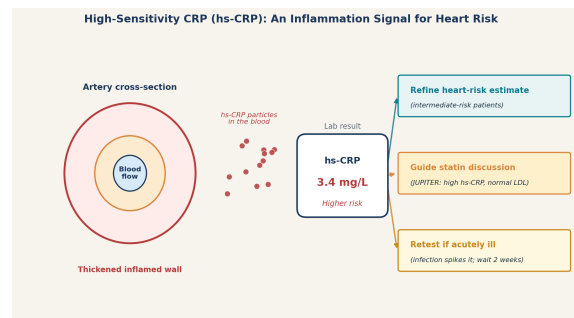


Your hs-CRP Result

What This Inflammation Test Means, When to Retest, and What You Can Do About It

The hs-CRP test finds low-grade inflammation in the blood. Inflammation is a hidden cause of heart attacks and strokes. Your result helps Dr. Ali decide whether treatment is right for you.



Online: <https://go.riasalimd.com/hs-crp-guide>

Rias KS Ali, MD FACC

Board Certified in Interventional Cardiology & Cardiovascular Disease

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Names & Terms You Will Hear

Term	Meaning
hs-CRP	Short for high-sensitivity C-reactive protein. A blood test that finds tiny amounts of CRP. The 'high-sensitivity' part means it can detect levels that a standard CRP test would miss. In heart care, this matters because low-level inflammation raises heart risk even when a standard test looks normal.
C-reactive protein (CRP)	A protein your liver makes when there is inflammation in the body. The standard CRP test checks for big infections and flares. The hs-CRP test checks for the small, quiet inflammation that raises heart risk over time. They answer very different questions.
Inflammation marker	A substance in the blood that rises with inflammation. hs-CRP is one of the best-studied markers for predicting heart-risk on top of cholesterol.
Residual inflammatory risk	Extra heart and stroke risk that stays even after cholesterol is well controlled. This risk comes from chronic low-grade inflammation. hs-CRP is the main way to detect it in a blood test.
Risk-enhancing factor	The 2018 AHA/ACC cholesterol guideline lists an hs-CRP of 2 mg/L or higher as a risk-enhancing factor. This means it tips the discussion toward starting or increasing a statin in patients who are on the borderline.
JUPITER trial	A large study that gave statin therapy to people with high hs-CRP but normal LDL. The statin cut heart attacks, strokes, and deaths by a large amount. This proved that acting on inflammation risk is worthwhile, not just informational.
CANTOS trial	A landmark study using a drug that lowers inflammation without touching cholesterol. It still reduced heart events. This confirms that inflammation is its own treatable risk factor.



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Term	Meaning
Retest rule	Do not check hs-CRP when you are sick, hurt, or had recent surgery. Infection and injury spike CRP and make the result useless for heart risk. If your value is above 10 mg/L, it likely reflects acute illness. Retest in 2 weeks when well.

Read this first. hs-CRP is not the same as standard CRP. Standard CRP finds infections and flares. hs-CRP finds the quiet inflammation that raises your heart-attack and stroke risk over years - even when you feel fine. One elevated result drawn when you were sick does not count. Results above 10 mg/L almost always reflect acute illness. Recheck in 2 weeks when well.



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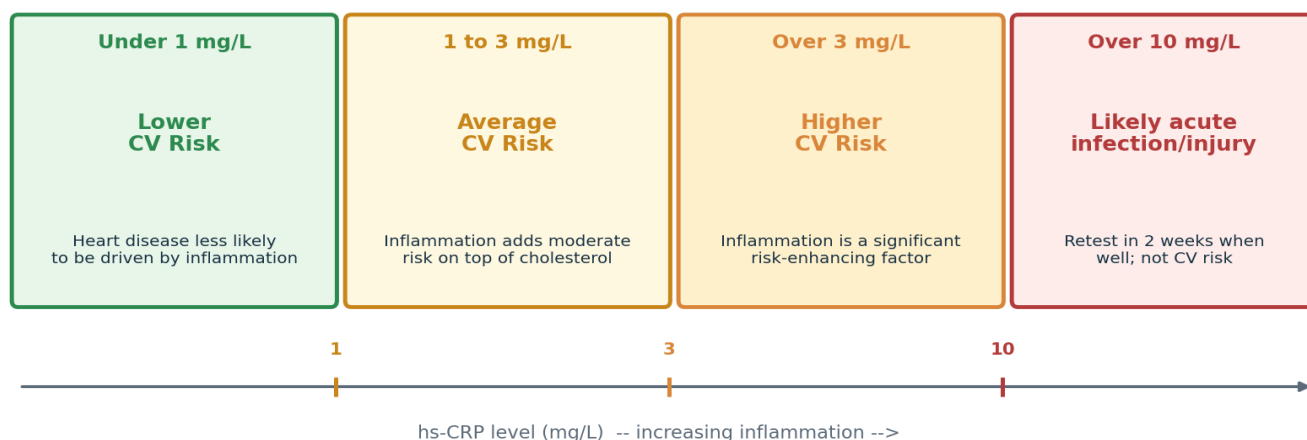


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Your hs-CRP Result?

- The hs-CRP test measures low-grade inflammation in the blood. Your liver makes CRP when there is inflammation. The high-sensitivity version detects tiny amounts that a standard CRP test misses.
- This matters for the heart. Chronic low-grade inflammation quietly damages artery walls over years. It makes plaques less stable and more likely to rupture. That rupture is what causes most heart attacks and strokes.
- hs-CRP answers a different question than standard CRP. Standard CRP is used in the emergency room and for autoimmune flares - values in the tens or hundreds. hs-CRP looks for the quiet inflammation of heart risk - values under 10 mg/L.
- The AHA and CDC set three risk zones in 2003. Under 1 mg/L is lower risk. One to 3 mg/L is average risk. Over 3 mg/L is higher cardiovascular risk.
- hs-CRP does not diagnose a heart attack or heart failure. It is a risk tool. It refines your long-term risk estimate and helps decide whether to start or adjust treatment.
- A result over 10 mg/L usually means an acute infection or injury spiked the level. In that case, the test cannot be used for heart risk. Retest in 2 weeks when well.

hs-CRP Risk Zones (AHA/CDC) - What Your Number Means



The three AHA/CDC heart-risk zones for hs-CRP. Under 1 mg/L is lower risk. One to 3 mg/L is average risk. Over 3 mg/L is higher cardiovascular risk. A value over 10 mg/L usually signals acute infection or injury - retest in 2 weeks when fully well.



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Low hs-CRP (Under 1 mg/L) - Lower Cardiovascular Risk

- An hs-CRP under 1 mg/L means lower inflammatory risk for your heart. Your arteries are not showing low-grade inflammation at this level.
- This is reassuring. But it does not mean zero heart risk. Cholesterol, blood pressure, blood sugar, smoking, and age each raise heart risk in separate ways.
- The usual next step: keep up healthy habits and focus on controlling your other risk factors. No statin decision is usually driven by hs-CRP at this level.
- Consider retesting every few years or after big lifestyle changes. Inflammation can rise as health or habits change. Always test when fully well.

Average hs-CRP (1 to 3 mg/L) - Average Cardiovascular Risk

- A result in the 1 to 3 mg/L range means average inflammatory risk. Low-grade inflammation is present at a level that adds to your heart risk picture.
- For people at intermediate heart risk, an hs-CRP at the higher end of this range (2 mg/L or more) is listed in the 2018 AHA/ACC guideline as a risk-enhancing factor. It can tip the statin discussion.
- Lifestyle changes matter here. Regular aerobic exercise, weight control, healthy eating, and not smoking all lower hs-CRP in this range.
- The usual next step: a shared talk with Dr. Ali about whether to add or increase a statin, based on your full risk profile, not just this one number.



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High hs-CRP (Over 3 mg/L) - Higher Cardiovascular Risk

- A result above 3 mg/L means higher inflammatory risk for your heart - if you were completely well when the blood was drawn and the result is confirmed on repeat.
- The JUPITER trial showed that a statin cut heart attacks, strokes, and death in people with hs-CRP above 2 mg/L and normal LDL. This was the first proof that treating inflammation-driven risk actually helps.
- Lifestyle changes are very important here. Obesity, smoking, and inactivity are often the root causes. Addressing them can bring the level down a lot over 3 to 6 months.
- Do NOT use this result if you were recently sick or hurt. Confirm with a repeat test in 2 weeks when fully well. If the repeat is still above 3 mg/L, bring it to your next visit for a full risk discussion.
- The usual next step: a talk with Dr. Ali about a statin, stronger lifestyle changes, and possibly checking for hidden inflammation sources like sleep apnea or gum disease.

The Retest Rule - Do Not Test When You Are Sick

- Any acute illness - a cold, sinus infection, urinary infection, injury, surgery, or autoimmune flare - spikes hs-CRP dramatically. The level often jumps from your baseline into the tens or hundreds of mg/L. This has nothing to do with heart risk.
- The rule: do not draw hs-CRP when acutely ill. If it was drawn during or shortly after illness, discard that result. Retest at least 2 weeks after you feel completely well.
- A result above 10 mg/L almost always reflects acute illness or injury, not chronic heart risk. This is the agreed threshold where most guidelines say to repeat the test before acting on it.
- Other things that chronically raise hs-CRP (not acutely): obesity, smoking, diabetes, and oral estrogen. These are not reasons to discard the result. They are risk factors to treat.



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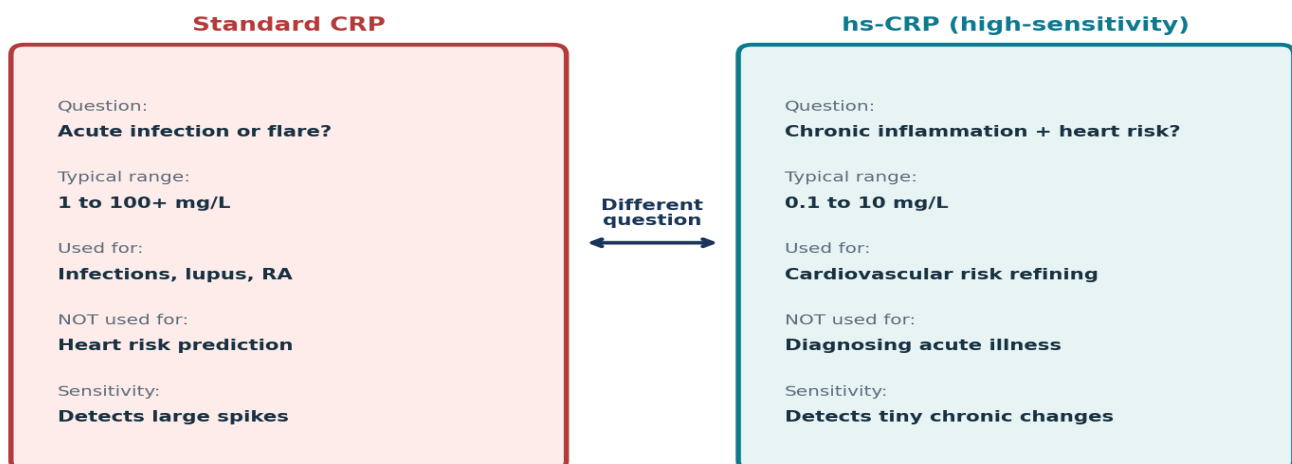


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Why It Matters

- Cholesterol and hs-CRP measure separate risk pathways. You can have well-controlled LDL and still have high inflammatory risk. Reading both together gives a fuller picture.
- The JUPITER trial showed statins cut heart attacks and strokes in people with high hs-CRP and normal LDL. The result is not just informational. It can change your treatment.
- The CANTOS trial proved that reducing inflammation on its own also reduces heart events. Inflammation is an independent, treatable risk factor.
- For borderline-risk patients, an hs-CRP of 2 mg/L or higher is one of the factors that tips the shared decision toward starting a statin. This is directly from the 2018 AHA/ACC guideline.
- Lifestyle changes that lower inflammation also lower hs-CRP. Weight loss, exercise, quitting smoking, and a healthy diet all help. The test is a useful way to track whether those changes are working.
- hs-CRP is most helpful for people at intermediate heart risk, where the decision to treat is genuinely uncertain. It is not a routine screen for everyone.

Standard CRP vs hs-CRP - Two Different Tests, Two Different Questions



Standard CRP vs hs-CRP: two tests with two different jobs. Standard CRP detects acute infections and autoimmune flares at high values. hs-CRP detects the chronic low-grade inflammation that quietly raises heart risk. It is sensitive to tiny amounts that standard CRP misses.



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Want to understand your hs-CRP number? Try our [Understand Your Result tool](#). Pick your test, type in your value, and see which general range it falls in. It is a learning tool only, not a diagnosis. Always go over your result with your doctor.



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Risk Factors

Some patients are more likely to develop this condition. Knowing your risk helps your care team take extra precautions.

Risk Factor	Why It Increases Risk
Obesity and excess body weight	Fat tissue - especially belly fat - releases inflammatory signals all the time. This is one of the strongest ongoing drivers of a high hs-CRP. Weight loss lowers the level.
Smoking	Tobacco smoke triggers and sustains artery inflammation. Smokers have much higher hs-CRP than non-smokers. Quitting lowers the level within weeks to months.
Diabetes and insulin resistance	High blood sugar and insulin resistance promote chronic inflammation of blood vessels. Poorly controlled diabetes is a major cause of high hs-CRP.
High blood pressure	Sustained high pressure damages artery walls and triggers an inflammatory response. Controlling blood pressure helps reduce this inflammation.
Sedentary lifestyle	Regular aerobic exercise is anti-inflammatory. Inactivity allows inflammatory signals to stay high. Exercise is one of the most reliable ways to lower hs-CRP.
Poor diet	Diets high in ultra-processed foods and low in fiber raise inflammation. A Mediterranean-style diet - olive oil, fish, nuts, vegetables - is linked to lower hs-CRP.
Oral estrogen or hormone therapy	Oral estrogen and some hormone therapies raise hs-CRP. This is a drug effect, not a sign of higher heart risk. Tell Dr. Ali about any hormone medications before your test.
Acute infection or injury (retest when well)	Any illness - a cold, flu, infection, recent surgery, or autoimmune flare - spikes hs-CRP dramatically. A result drawn during illness does not reflect heart risk. Retest in 2 weeks after you feel completely well.



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What Raises hs-CRP: Short-Term Spikes vs Long-Term Drivers

Factor	Effect	Type	What to do
Infection, cold, flu	Raises a lot (often over 10)	SHORT-TERM	Retest 2 weeks after well
Surgery or injury	Raises a lot (often over 10)	SHORT-TERM	Retest 2 weeks after healed
Autoimmune flare	Raises by a lot	SHORT-TERM	Retest when in remission
Oral estrogen or HRT	Raises moderately (drug effect)	ONGOING	Tell Dr. Ali; not a heart signal
Obesity and belly fat	Raises chronically	LONG-TERM	Weight loss lowers hs-CRP
Smoking	Raises chronically	LONG-TERM	Quitting lowers it in weeks
Inactivity and poor diet	Raises chronically	LONG-TERM	Exercise plus healthy diet
Diabetes and high blood sugar	Raises chronically	LONG-TERM	Blood sugar control helps



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Treatment Options

- The first step after a high hs-CRP is not a new prescription. Dr. Ali reads your result together with your full risk profile: age, blood pressure, cholesterol, diabetes, and smoking history.
- For patients at intermediate risk (10-year risk roughly 7.5 to 20%), an hs-CRP of 2 mg/L or higher tips the discussion toward a statin. This is based on the 2018 AHA/ACC guideline.
- Statins lower both LDL and hs-CRP. The JUPITER trial showed a statin cut heart attacks and strokes in people with high hs-CRP and normal LDL. Statins work through both the cholesterol and the inflammation pathway.
- Lifestyle change is the backbone of lowering inflammation. Lose extra weight. Exercise at least 150 minutes a week. Quit smoking. Eat a Mediterranean-style diet. Control blood pressure and blood sugar.
- If hs-CRP stays high despite a statin and good lifestyle habits, Dr. Ali may look for hidden sources of inflammation. Sleep apnea and gum disease are common examples.
- hs-CRP is not tracked week to week. It reflects trends over months. Recheck it at your annual visit or after a long period of lifestyle change to see whether inflammation has come down.
- The retest rule is key. If your hs-CRP was drawn when you were sick or recovering, that result does not count. Retest at least 2 weeks after you are completely well.

The retest rule - the most important caveat. hs-CRP spikes with any infection, injury, or surgery. A result drawn while you are sick cannot be used for heart risk. The rule: confirm any high result with a repeat test at least 2 weeks after you are fully well. If your result was above 10 mg/L, it almost certainly reflects acute illness, not chronic heart risk.



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Risks, Benefits, and Alternatives

Every choice has trade-offs. Use this table to start the shared decision conversation.

Option	Risks	Benefits	Alternatives
Testing hs-CRP to refine risk vs not testing	A blood draw is the only step needed. The test is cheap and painless. The only issue is an unclear result if drawn during acute illness.	Knowing your hs-CRP can change the conversation about statins or lifestyle. For borderline-risk patients it can be the deciding evidence - either to act or to hold off.	Not testing is fine if your risk is clearly low or clearly high. In those cases the result would not change the plan.
Starting a statin based partly on high hs-CRP	Statins have rare side effects. Muscle aches happen in 5 to 10% of people. There is a very small rise in new-onset diabetes risk. Most people tolerate statins well.	The JUPITER trial showed a statin cut heart attacks and strokes by a large amount in people with high hs-CRP and normal LDL. About 25 people needed to be treated for 5 years to prevent one event.	An option is to try lifestyle changes for 3 to 6 months first, then retest. This works if you are motivated and at the lower end of intermediate risk.
Lifestyle changes as the main response to high hs-CRP	No medical risk. Requires real effort and lasting change, which is hard. Effects on hs-CRP take weeks to months.	Weight loss, exercise, quitting smoking, and a healthy diet each lower hs-CRP on their own. They also lower blood pressure, blood sugar, and cholesterol at the same time.	Lifestyle alone may not be enough if your risk is high. Combining it with a statin gives the best result.



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Common Misconceptions

Myth	Reality
hs-CRP and standard CRP are the same test.	They are not. Standard CRP checks for infections and autoimmune flares at high values - tens or hundreds of mg/L. hs-CRP checks for tiny amounts of chronic inflammation tied to heart risk - values under 10 mg/L. They answer completely different questions. Standard CRP does not predict heart risk.
A high hs-CRP means I am having a heart attack right now.	No. hs-CRP is a long-term risk marker, not an acute test. Heart attacks are found with troponin and an ECG. A high hs-CRP means your long-term risk is elevated due to chronic inflammation. It is not an emergency on its own.
If I am sick with a cold, my hs-CRP shows my heart risk.	No. Infection, injury, and surgery spike hs-CRP dramatically. A result drawn when you are acutely ill says nothing about your heart risk. Retest in 2 weeks when you are fully well.
A normal hs-CRP means I have no heart risk.	Not quite. A low hs-CRP is reassuring for inflammation risk. But you can still have heart risk from cholesterol, blood pressure, diabetes, smoking, or age. hs-CRP is one piece of the picture, not the whole answer.
Taking ibuprofen will lower my hs-CRP before the test.	Anti-inflammatory drugs can temporarily mask CRP. This hides the real inflammation rather than treating it. Dr. Ali needs your true baseline. Take your usual medications and do not use OTC anti-inflammatories to lower the number before the test.
Only people with high cholesterol need an hs-CRP test.	hs-CRP is most useful for people with borderline cholesterol risk - the group where the decision to treat is uncertain. The JUPITER trial showed benefit in people with normal LDL but high hs-CRP. Cholesterol and inflammation are separate pathways.



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Myth	Reality
If my hs-CRP is high, I definitely need a statin.	Not automatically. The decision depends on your full risk profile and a shared talk with Dr. Ali. A high hs-CRP is a risk-enhancing factor that tips the conversation - it does not mandate treatment on its own. Lifestyle change may be the right first step.



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Possible Complications

Knowing what can go wrong helps you spot problems early. Most complications are uncommon, especially with treatment.

Where / What	What Can Happen
Untreated inflammatory risk leading to a heart attack or stroke	Chronic inflammation makes artery plaques less stable over years. A plaque that ruptures can block a heart or brain artery. Treating elevated hs-CRP through lifestyle and statins aims to reduce exactly this risk.
Acting on a high value drawn during illness	A result above 10 mg/L drawn during a cold, infection, or soon after surgery reflects acute illness, not heart risk. Acting on that number would be a mistake. The fix is simple: wait 2 weeks, retest when well.
Worry from a high result without context	A number over 3 mg/L without an explanation can cause worry. The result means the most in context: how high, were you well when tested, and what does your full risk profile show. Bring the result to your visit rather than worrying alone.
Lifestyle-driven inflammation continuing unchecked	Obesity, smoking, and inactivity keep hs-CRP high year after year. Without fixing these root causes, even a statin may not fully offset the risk. Lifestyle change is the most lasting fix.
Hormone therapy masking or falsely raising the result	Oral estrogen raises hs-CRP as a drug effect, not a heart risk sign. This can make the result appear higher than your true inflammation level. Dr. Ali needs to know about any hormone medications to read the result correctly.



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Points to Know

If you remember nothing else, remember these key points.

- hs-CRP measures low-grade chronic inflammation. This is a separate heart-risk pathway from cholesterol.
- Risk zones: under 1 mg/L is lower risk. One to 3 mg/L is average. Over 3 mg/L is higher cardiovascular risk (AHA/CDC).
- Do NOT test hs-CRP when you are sick or recovering. Infection spikes it. Retest 2 weeks after you feel fully well.
- A result over 10 mg/L almost always means acute illness, not chronic heart risk.
- An hs-CRP of 2 mg/L or higher can tip the statin decision for borderline-risk patients (2018 AHA/ACC guideline).
- The JUPITER trial proved statins reduce events in people with high hs-CRP and normal LDL. This marker is actionable.
- Weight loss, exercise, quitting smoking, and a healthy diet all lower hs-CRP and reduce heart risk.
- hs-CRP is not the same as standard CRP. They answer completely different questions.



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When to Call Us - and When to Call 911

If you are not sure, call. We would rather hear from you twice than miss a real problem.

- If your hs-CRP came back above 10 mg/L and you were not acutely ill when the blood was drawn - call us. A very high value may point to a hidden source of inflammation.
- If you were sick, hurt, or had recent surgery when your hs-CRP was drawn - let us know. We will schedule a retest in 2 weeks when you are well.
- If you are on oral estrogen or hormone therapy and got an unexpected high result - call us before making any decisions. Hormone therapy can raise hs-CRP on its own.
- If you have chest pain, pressure, or tightness - call 911 or go to the emergency room. A high hs-CRP does not cause chest pain. Treat chest pain as a possible heart emergency.
- Questions about starting or changing a statin based on your hs-CRP result - call or message us. This shared decision is one we want to make together.
- If you have made real lifestyle changes and want to recheck your hs-CRP to see whether inflammation is down - let us know and we will schedule a retest.

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Where to Read More

- To learn how statins work and what to expect from one: [Statins guide](#).
- To learn about Lp(a), another inflammation-linked risk factor: [Lipoprotein \(a\) guide](#).
- For the full picture on cholesterol numbers: [Understanding Cholesterol guide](#).
- To understand aspirin's role in prevention alongside hs-CRP: [Aspirin for Prevention guide](#).



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Trusted Resources

The links below are the trusted resources Dr. Ali used to write this guide and that he recommends you visit for more information. Each is a clickable link in the digital version and a Short.io tracked URL on the printed version.

- [American Heart Association - Inflammation and Heart Disease](#) - AHA overview of how chronic inflammation drives heart risk and what hs-CRP measures.
- [Cleveland Clinic - C-Reactive Protein \(CRP\) Test](#) - Patient-friendly overview of the hs-CRP test, result interpretation, and the retest-when-well rule.
- [MedlinePlus - C-Reactive Protein \(CRP\) Test \(NIH/NLM\)](#) - NIH consumer-health page that explains the difference between standard CRP and hs-CRP and what results mean.
- [Testing.com - hs-CRP Test](#) - Plain-language breakdown of what the hs-CRP test measures, the three risk zones, and what a high result means.
- [JUPITER Trial Summary \(NEJM 2008\)](#) - The key study showing statin therapy cut heart attacks and strokes in people with high hs-CRP and normal LDL cholesterol.



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Sources Used to Build This Guide

Every recommendation in this guide is grounded in one or more of the studies, guidelines, or trusted resources below. Short links are tracked so Dr. Ali can see which references patients are reading; nothing personally identifying is captured.

- [Grundy SM et al. 2018 AHA/ACC Cholesterol Guideline \(hs-CRP as risk enhancer\). Circulation 2019;139:e1082-e1143 \[Guideline\]](#)
Guideline placement of hs-CRP ≥ 2 mg/L as a risk-enhancing factor refining statin decisions in intermediate-risk patients.
- [Ridker PM et al. JUPITER trial \(rosuvastatin vs placebo in hs-CRP \$\geq 2\$, LDL \$< 130\$ \). NEJM 2008;359:2195-2207 \[Primary-Evidence\]](#)
Pivotal RCT showing statin therapy reduced MI, stroke, and death in people with high hs-CRP and normal LDL — proves the marker is actionable.
- [Pearson TA et al. AHA/CDC Scientific Statement on Markers of Inflammation in CVD. Circulation 2003;107:499-511 \[Scientific-Statement\]](#)
Source of the < 1 / $1-3$ / > 3 mg/L low/average/high cardiovascular risk tertiles; establishes hs-CRP vs standard CRP distinction.
- [Ridker PM et al. CANTOS \(canakinumab anti-inflammatory therapy for residual risk\). NEJM 2017;377:1119-1131 \[Primary-Evidence\]](#)
Proof of concept that lowering inflammation independently of LDL reduces cardiovascular events — frames why hs-CRP and inflammation matter.
- [MedlinePlus — C-Reactive Protein \(CRP\) Test \(NIH/NLM\) \[Patient-Education\]](#)
Plain-language NIH consumer framing; distinguishes standard CRP from hs-CRP and covers retest guidance.
- [Cleveland Clinic — C-Reactive Protein \(CRP\) Test \[Patient-Education\]](#)
Patient-facing interpretation, retest-when-well guidance, and what-raises-hs-CRP list.
- [Lloyd-Jones DM et al. 2019 AHA/ACC Primary Prevention Guideline. JACC 2019;74:1376-1414 \[Guideline\]](#)
Primary prevention context: hs-CRP ≥ 2 mg/L listed among risk-enhancers to guide statin initiation in intermediate-risk patients.
- [USPSTF Statin Use for Primary Prevention of CVD Events \(2022\). JAMA 2022;328:746-753 \[Guideline\]](#)
Contextualizes role of risk-assessment tools including hs-CRP in the USPSTF framework for statin decisions.
- [American Heart Association — Inflammation and Heart Disease \[Patient-Education\]](#)
AHA patient-facing overview of how inflammation connects to cardiovascular risk and what hs-CRP measures.
- [Testing.com — hs-CRP Test \(high-sensitivity C-reactive protein\) \[Patient-Education\]](#)
Consumer-facing overview of hs-CRP vs standard CRP, what the test measures, and result interpretation.
- [Ridker PM. A Test in Context: High-Sensitivity CRP. JACC 2016;67:712-723 \[Review\]](#)
Comprehensive clinical review of hs-CRP: measurement, confounders (obesity, smoking, HRT), risk tertiles, JUPITER, CANTOS, and when to retest.



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About This Guide

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Reviewer note: Reviewed against Cleveland Clinic CRP test page, MedlinePlus CRP test page, and AHA inflammation overview. This guide adds: a risk-zone bar chart with AHA/CDC cut points, a side-by-side standard CRP vs hs-CRP diagram, a color-coded transient-vs-chronic confounder table, per-zone grade cards, JUPITER and CANTOS trial context, and the retest rule for acute illness.

Disclaimer

This guide is for educational purposes only and does not replace medical advice from your physician. Recommendations may not apply to every patient. Always follow the specific instructions of Dr. Ali and your care team. In an emergency call 911 or go to the nearest emergency department.



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