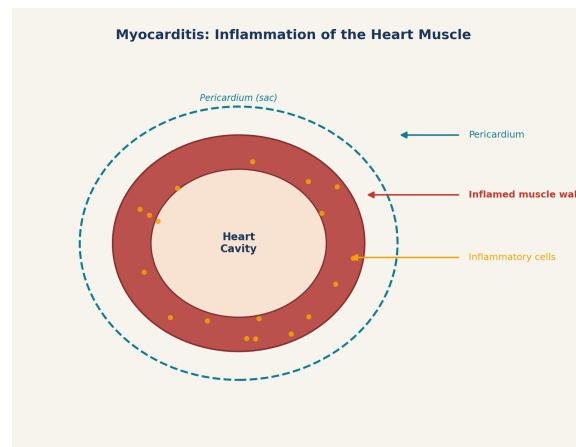


Understanding Myocarditis

Inflammation of the heart muscle — causes, diagnosis, and recovery

Most patients recover fully. Knowing the warning signs protects your heart.



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

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Last Updated: August 2026



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1 of 25 | Page



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Names & Terms You Will Hear

Term	Meaning
Myocarditis	Swelling and irritation of the heart muscle. Not the sac — the muscle itself.
Myocardium	The muscle wall of the heart. It pumps blood with each beat.
Pericarditis	Swelling of the outer sac of the heart. Different from myocarditis, though both can happen together.
Myopericarditis	Myocarditis with some sac involvement. Still usually benign.
Fulminant myocarditis	A sudden, severe form. The heart fails fast. Rare but life-threatening.
Giant-cell myocarditis	A rare, aggressive immune-driven type. Found on biopsy. Needs strong medicine.
MINOCA	Chest pain and a rising troponin with open coronary arteries. Myocarditis is a key cause.
Ejection fraction (EF)	How much blood the heart pumps with each beat. Normal is 55–70%. Myocarditis can lower it.
Endomyocardial biopsy (EMB)	A tiny tissue sample from inside the heart. Used when the type of myocarditis changes the treatment.
Late gadolinium enhancement (LGE)	A cardiac MRI finding. It shows scar or active swelling in the heart muscle.



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CALL 911 — Know These Emergency Signs:

Sudden severe chest pain | Fainting or near-fainting | Pounding or racing heart with dizziness

Severe shortness of breath at rest | Cold sweats with pale or gray skin

If someone collapses: Call 911. Start CPR (100–120 BPM — Stayin' Alive beat). Use the nearest AED. Myocarditis is a leading cause of sudden cardiac arrest in people under 35.



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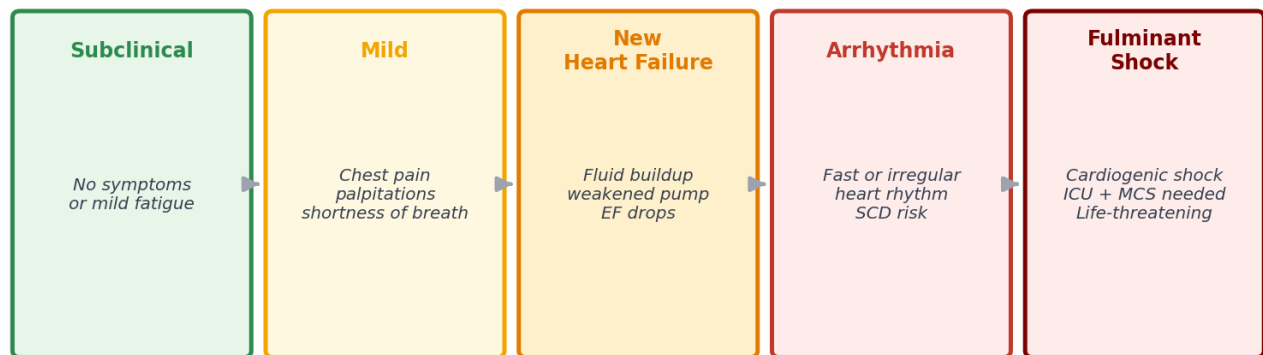


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What Is Myocarditis?

- Myocarditis is **swelling of the heart muscle**. It is not the same as pericarditis (swelling of the sac). It is not the same as a heart attack (blocked artery).
- It can **look like a heart attack**. You may have chest pain and a high troponin blood test. But the heart's arteries are open. This pattern is called **MINOCA**.
- The most common cause is a **viral infection** — such as coxsackie B, adenovirus, parvovirus B19, or COVID-19.
- The swelling can **weaken the heart pump** and lower the ejection fraction (EF). Most viral cases heal fully in 2–6 months.
- Myocarditis is a leading cause of **sudden cardiac death in young people and athletes** under 35. This is why exercise must stop until the heart is cleared.
- It can disturb the heart's electrical system. This causes **dangerous heart rhythms** even in mild cases.

Myocarditis Presentation Spectrum



Most patients stay in the mild-to-moderate range and recover fully.

The myocarditis presentation spectrum from subclinical to fulminant cardiogenic shock. Most patients remain in the mild-to-moderate range and recover fully with rest and supportive care.

Myocarditis vs Heart Attack vs Pericarditis — key distinguishing features.

Feature	Myocarditis	Heart Attack (STEMI/NSTEMI)	Pericarditis
What is inflamed?	Heart muscle (myocardium)	None — artery blocked, muscle dies	Outer sac (pericardium)



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Feature	Myocarditis	Heart Attack (STEMI/NSTEMI)	Pericarditis
Coronary arteries	Normal (open)	Blocked	Normal
Troponin (blood test)	Elevated (muscle injury)	Elevated (muscle death)	Mildly elevated or normal
ECG pattern	Diffuse ST changes or LBBB-like	Localized ST elevation or depression	Diffuse ST elevation, PR depression
Chest pain quality	Ache or pressure; may be pleuritic	Heavy pressure; not positional	Sharp; worse lying flat; better leaning forward
Cardiac MRI	Myocardial edema + LGE (mid-wall)	Subendocardial or transmural LGE	Pericardial enhancement
Treatment	Rest + GDMT; immunosuppression for specific types	Urgent cath + stent; antiplatelet	NSAIDs + colchicine; NOT steroids first-line



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Why It Matters

- Myocarditis causes up to **10–20% of sudden cardiac deaths** in young adults and athletes. Finding it early can prevent this.
- It often looks like a chest cold or a heart attack. The right diagnosis changes the whole treatment plan.
- The heart may seem to recover while **scar tissue remains** on cardiac MRI. Exercising without clearance risks sudden death.
- Some types — giant-cell and checkpoint myocarditis — are emergencies. They need **strong immune medicines and ICU care**.
- In about **9–16% of cases**, the heart does not fully heal. Dilated cardiomyopathy (DCM) can develop and needs long-term treatment.
- Cardiac MRI uses the **Lake Louise criteria** to show how much muscle is involved. It guides exercise, biopsy, and treatment decisions.



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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
Recent viral illness (1–4 weeks prior)	Viruses can attack heart muscle cells directly. They can also trigger the immune system to attack the heart.
Young adult male (under 35)	Myocarditis most often affects males aged 15–35. Hormonal and immune factors play a role.
Competitive athlete	Intense exercise with active heart swelling raises arrhythmia risk a lot. Even mild cases carry danger.
Cancer immunotherapy (checkpoint inhibitors)	Drugs like pembrolizumab and nivolumab can cause severe myocarditis. It happens in 0.5–1.5% of patients. Up to 50% of fulminant cases are fatal.
mRNA COVID-19 vaccine (young males)	Very rare. About 1–5 cases per 100,000 second doses in males aged 16–24. Almost always mild. COVID-19 infection itself carries far higher myocarditis risk.
Autoimmune disease	Lupus, sarcoidosis, and eosinophilic disorders can each cause myocarditis.
Peripartum period	Myocarditis can occur after delivery. It needs careful evaluation and is separate from peripartum cardiomyopathy.



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Common Causes of Myocarditis

VIRAL (most common)

- Coxsackie B / enteroviruses
- Adenovirus
- Parvovirus B19
- HHV-6
- Influenza
- SARS-CoV-2 (COVID-19)

IMMUNE / AUTOIMMUNE

- Giant-cell myocarditis
- Eosinophilic myocarditis
- Lupus, sarcoidosis
- Checkpoint inhibitors (cancer immunotherapy)
- mRNA COVID vaccine (rare — mild course)

Bacterial, fungal, parasitic, and toxic causes exist but are less common.

Myocarditis causes grouped as viral (left, teal) and immune/autoimmune (right, amber). Viral causes account for most cases in developed countries. Immune-checkpoint inhibitors are an emerging cause in cancer patients.



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Checkpoint-Inhibitor Myocarditis (Cancer Immunotherapy)

- **What it is:** Drugs like pembrolizumab and nivolumab boost the immune system to fight cancer. Sometimes the immune system attacks the heart muscle instead.
- **How common:** About 0.5–1.5% of patients on these drugs get myocarditis. Dual-drug regimens raise the risk more.
- **Why it is dangerous:** Up to 25–50% of these cases are fulminant (shock, heart block, or cardiac arrest). It is the most deadly immune side effect of checkpoint drugs.
- **Symptoms:** Fatigue, shortness of breath, palpitations, and chest pain. Usually within 1–3 months of starting the drug. Troponin is almost always high.
- **Treatment:** Stop the cancer drug right away. Give high-dose IV steroids (1 g/day for 3–5 days). If steroids do not work, add mycophenolate or abatacept.
- **If you are on checkpoint therapy:** Tell your oncologist or cardiologist the same day if you have any chest symptoms. Do not wait.



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Giant-Cell Myocarditis — Rare but Urgent

- **What it is:** A rare, aggressive immune attack on the heart muscle. Large immune cells invade the muscle. It is found on biopsy.
- **Prognosis without treatment:** Median survival of 5.5 months from symptom onset (Cooper et al., NEJM 1997). One of the most lethal forms of myocarditis.
- **Who gets it:** Usually adults aged 40–60. Often linked to other immune diseases such as thyroid disease or inflammatory bowel disease.
- **Symptoms:** Fast heart failure, dangerous rhythms, and heart block. Often presents as fulminant shock that needs immediate support.
- **Treatment:** High-dose steroids plus cyclosporine or azathioprine. Some patients need Impella or VA-ECMO while medicines take effect. Heart transplant if no recovery.
- **Diagnosis:** Biopsy (EMB) is essential. MRI alone cannot confirm giant-cell type. Early biopsy changes treatment urgently.



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Treatment Options

- **Rest and supportive care for most viral cases.** No drug cures viral myocarditis. The goal is to support the heart while it heals.
- **Heart failure medicines (GDMT) when EF is low:** ACE inhibitor or ARNI + beta-blocker + MRA ± SGLT2 inhibitor. These reduce strain on the heart.
- **No vigorous exercise for 3–6 months.** This rule is firm. Wait until symptoms are gone, troponin is normal, ECG is back to normal, and EF has recovered. Cardiac MRI clearance is best before returning to sport.
- **Giant-cell myocarditis:** high-dose steroids + cyclosporine or azathioprine. Biopsy confirms the type. Transfer to an advanced heart failure center quickly.
- **Checkpoint-inhibitor myocarditis:** stop the cancer drug right away. Give high-dose IV steroids (1 g/day for 3–5 days). Add mycophenolate or abatacept if steroids do not work.
- **Eosinophilic myocarditis:** find and remove the trigger (a drug or parasite). Use high-dose steroids.
- **Dangerous heart rhythms (VT/VF):** antiarrhythmic drugs. An ICD may be needed if sustained VT/VF occurs.
- **Fulminant myocarditis with shock:** mechanical heart support (Impella, VA-ECMO, or IABP) as a bridge to recovery. Transfer to an advanced center right away.
- **mRNA vaccine-related myocarditis:** usually mild and self-limiting. NSAIDs for pain. Same exercise restriction. Follow-up with cardiac MRI.



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Fulminant Myocarditis — Emergency Recognition

- **What it is:** Fulminant myocarditis is a sudden, severe heart failure. It often starts days after a viral illness. The patient needs heart support right away.
- **Symptoms:** Low blood pressure, cold hands and feet, mental fog, and severe breathlessness. Echo shows a very low EF. The heart size is often normal — unlike in chronic DCM.
- **A surprising fact:** Fulminant viral myocarditis often has a *better* long-term outcome than the slower subacute form. The heart can fully recover. The key is survival through the acute phase.
- **Mechanical support:** Impella CP or Impella 5.5 to unload the ventricle. VA-ECMO for both chambers failing. IABP for milder shock.
- **Where to go:** Transfer to a center with mechanical support and an advanced heart failure team. Early support saves more lives than late rescue.
- **Checkpoint and giant-cell types:** These do not heal on their own. Immune medicines must be given at the same time as heart support. Delays cost lives.



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Exercise Restriction After Myocarditis

- **The rule:** No competitive or vigorous sport for **3–6 months** after diagnosis. This is an ACC/AHA guideline.
- **Why hard exercise is dangerous:** Swelling lowers the threshold for VT and VF. Most sport-related sudden deaths in young athletes involve myocarditis.
- **Clearance criteria (all required):** No symptoms at rest. Normal troponin. Normal ECG. EF at or above 50%. Ideally a normal cardiac MRI.
- **Cardiac MRI matters:** Scar (LGE) on MRI can stay even after troponin and EF return to normal. LGE raises arrhythmia risk during exercise.
- **Light activity is fine:** Gentle walks are encouraged. The rule applies to vigorous aerobic work, weight training, and competitive sport.
- **Wearable monitor:** Ask about a Holter or event monitor when you start to increase exercise again. It can catch silent rhythm problems early.

Exercise Restriction — The #1 Myocarditis Safety Rule:

No competitive sports or hard exercise for **at least 3–6 months**. This applies even if you feel fine. Swelling lowers the threshold for VT and VF. Return to exercise only after your cardiologist confirms: no symptoms, normal troponin, normal ECG, EF recovered, and ideally a normal cardiac MRI.



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Comfort Measures at Home (No Medication Needed)

These simple steps support healing and ease symptoms. Use them alongside any medication your doctor prescribes.

- Rest and limit your activity until your cardiologist clears you. This is the most protective step.
- No sports, heavy gym work, or hard exercise for at least 3–6 months. This applies even if you feel fine.
- Weigh yourself each morning if you have swelling or breathlessness. Call us for a 2–3 lb gain in a day.
- Limit salt to 1,500–2,000 mg a day if fluid build-up is present.
- Do not drink alcohol and avoid recreational drugs. Both harm the heart muscle directly.
- Get enough sleep and keep stress low. Both help the immune system heal the heart.



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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
Exercise restriction (3–6 months)	Deconditioning. Athletes may feel frustrated.	Prevents VT/VF and sudden death during active swelling. The #1 myocarditis safety rule.	Partial restriction — not safe without full MRI clearance for athletes.
Heart failure medicines (GDMT) for low EF	Low BP, high potassium, slow heart rate. Needs monitoring.	Helps reverse myocarditis heart failure. EF often returns to normal in 3–6 months.	Watch and wait — only for mild cases with no big EF drop.
Cardiac MRI (Lake Louise criteria)	Cost. Not always local. Gadolinium allergy is rare. Not safe with severe kidney disease.	Best noninvasive test to confirm myocarditis, grade swelling, and detect scar (LGE). Guides return-to-sport decisions.	Echo + troponin + ECG first. Biopsy if giant-cell is suspected.
Heart biopsy (EMB)	Small but real risk: heart wall tear (~0.5%), arrhythmia, bleeding.	Only sure test for giant-cell, checkpoint, or eosinophilic myocarditis. Changes treatment.	Cardiac MRI if not urgent. Empirical immune therapy if biopsy is not feasible.
Immune drugs (steroids ± cyclosporine)	Weight gain, high blood sugar, infection risk, bone loss with long use.	Life-saving for giant-cell and checkpoint myocarditis. Steroids lower death rates in these types.	Supportive care only for viral myocarditis. Steroids can worsen viral forms.



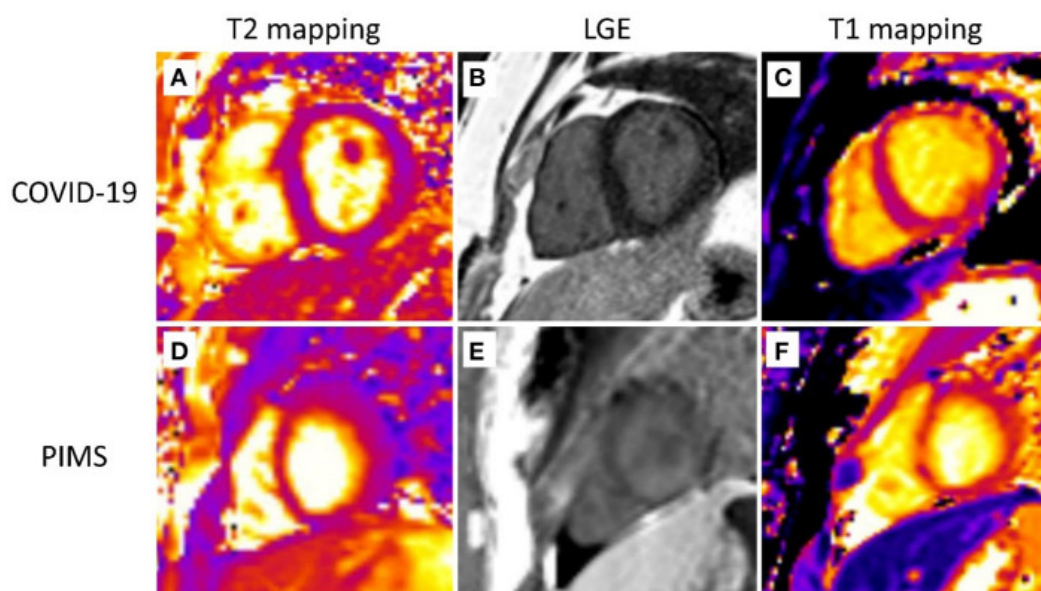
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Option	Risks	Benefits	Alternatives
Mechanical heart support (Impella or VA-ECMO)	Limb ischemia, bleeding, infection. Needs ICU expertise.	Bridges the patient through the most dangerous phase. The heart can fully recover when swelling subsides.	Dobutamine drip as a short-term step. Transplant if no recovery in 3–4 weeks.



Real cardiac MRI scans from two patients with myocarditis after COVID-19 illness. Each row shows T2 mapping (swelling), late gadolinium enhancement or LGE (scar/injury pattern), and T1 mapping along the outer heart muscle wall. This is the Lake Louise criteria imaging pattern used to diagnose myocarditis without a biopsy. Image: Chochkova-Bukova et al., *Frontiers in Cardiovascular Medicine* 2023 (CC BY 4.0).



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Common Misconceptions

Myth	Reality
"Myocarditis is just a bad chest cold."	Myocarditis is not a cold. It is swelling of the heart muscle. It can weaken the pump and cause dangerous rhythms. In rare cases it causes sudden cardiac death. It needs a full heart work-up.
"If I feel better, I can go back to exercise."	Feeling better is not the same as heart clearance. Myocarditis can leave tiny scars visible only on cardiac MRI. Those scars can trigger dangerous rhythms during hard exercise. The 3–6 month rule applies even when you feel normal.
"The COVID vaccine gave me myocarditis, so I should skip future shots."	Vaccine-related myocarditis in young males is rare (about 1–5 per 100,000 second doses). It is almost always mild and heals on its own. COVID-19 infection itself causes myocarditis far more often and with much worse outcomes. Cardiology groups recommend finishing vaccination after a short recovery window.
"Myocarditis means I had a heart attack."	Both conditions raise troponin and cause chest pain. But the cause is different. In myocarditis the heart arteries are open. Swelling is the culprit, not a blockage. Treatment is also different.
"Steroids always fix heart swelling."	Steroids are NOT used for viral myocarditis. They can make viral forms worse. They ARE life-saving for giant-cell and checkpoint myocarditis. The type matters a great deal.
"Once my troponin is normal, I am fully healed."	A normal troponin means active cell injury is slowing down. But cardiac MRI may still show scar months later. Full clearance needs imaging and a clinical check — not just a blood test.



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Myth	Reality
"Giant-cell myocarditis is the same as a regular virus."	Giant-cell myocarditis is rare and very aggressive. Without treatment, median survival is about 5.5 months. It needs urgent biopsy and strong immune medicines. Treating it like a viral case can be fatal.



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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
Heart failure (low EF)	The swollen muscle pumps weakly. Most cases improve with treatment. About 9–16% lead to dilated cardiomyopathy (DCM).
VT and VF (dangerous rhythms)	Fast rhythms from swollen or scarred muscle. Can cause sudden cardiac death, especially during hard exercise.
Complete heart block	Swelling blocks the heart's electrical signals. May need a short-term or permanent pacemaker. Common in giant-cell and cardiac sarcoidosis.
Sudden cardiac death	A leading cause of cardiac arrest in athletes under 35. Stopping exercise during active disease lowers this risk greatly.
Dilated cardiomyopathy (DCM)	Scarring after myocarditis in 9–16% of cases. Needs long-term heart medicines. See our DCM guide.
Fluid around the heart (myopericarditis)	Swelling can spread to the outer sac and cause fluid build-up around the heart.
Blood clot and stroke	A very weak pump can let blood pool and clot inside the heart. Clots can travel to the brain.
Cardiogenic shock (fulminant myocarditis)	The heart fails suddenly. Needs ICU care and mechanical support as a bridge to recovery or transplant.



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Points to Know

If you remember nothing else, remember these key points.

- Myocarditis is **swelling of the heart muscle** — most often viral. Most patients recover fully.
- It can look like a heart attack. Troponin rises and chest pain occurs, but arteries are open. Cardiac MRI confirms the diagnosis.
- **No hard exercise for 3–6 months** after diagnosis. This applies even if you feel fine.
- Viral myocarditis: rest and supportive care. Heart medicines if EF is low. Do NOT use steroids for viral types.
- Giant-cell, checkpoint, and eosinophilic types need **urgent biopsy and immune medicines**.
- Fulminant myocarditis with shock needs **ICU care and mechanical support**. Transfer to an advanced center fast.
- Had COVID-19 or a viral illness and now have chest pain or a fast heartbeat? See a cardiologist right away.
- About 9–16% of cases lead to dilated cardiomyopathy (DCM). Long-term heart medicines prevent further decline.



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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.

- **Call 911** for severe chest pain, fainting, severe breathlessness at rest, fast heartbeat with dizziness, or cold sweats with pale skin. These can mean shock, VT/VF, or cardiac arrest.
- **Call 911 if someone collapses.** Start CPR at 100–120 beats per minute. The Bee Gees song Stayin' Alive is 103 BPM. Use an AED — it will NOT shock a normal heart.
- **Call our office within 24 hours** if chest pain or palpitations start 1–4 weeks after a viral illness. That is the classic myocarditis window.
- **Call our office within 24 hours** for new shortness of breath, ankle swelling, or a weight gain of 2–3 lb in a day. These are signs of heart failure.
- **Call our office same day** if you are on cancer immunotherapy and have any chest symptoms or shortness of breath. Checkpoint myocarditis can be severe and must be caught fast.
- **Call our office before** returning to exercise, sport, or heavy work. Never clear yourself to exercise after myocarditis.
- **Call our office** if a close family member gets myocarditis or has an unexplained sudden cardiac death. Some types have a family link.

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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.

- [Myocarditis Foundation](#) - Patient guides, support groups, and research updates from the leading myocarditis group.
- [AHA — Myocarditis](#) - Patient overview from the American Heart Association.
- [Cleveland Clinic — Myocarditis](#) - Plain-language guide to symptoms, tests, and treatment.
- [NIH MedlinePlus — Myocarditis](#) - National Library of Medicine patient resource.
- [AHA Hands-Only CPR Video](#) - Learn CPR in 60 seconds. No mouth-to-mouth needed.
- [Red Cross CPR Classes](#) - Find a CPR or BLS class near you.
- [PulsePoint Respond App](#) - Free app. Alerts you to nearby cardiac arrest and maps AEDs in your community.
- [DCM Guide — go.riasalimd.com/dcm-guide](#) - Our companion guide on dilated cardiomyopathy — how myocarditis can progress.
- [Sudden Cardiac Arrest Guide — go.riasalimd.com/cardiac-arrest-guide](#) - Our companion guide on sudden cardiac arrest — CPR, AEDs, and survival.
- [Pericarditis Guide — go.riasalimd.com/pericarditis-guide](#) - Our companion guide on pericarditis — often mixed up with myocarditis.



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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.

- [2013 ESC Position Statement on Myocarditis](#) [Guideline]
Definitive ESC consensus on diagnosis, biopsy, and classification of myocarditis; provides Dallas/EMB criteria context.
- [2018 Lake Louise Criteria — Cardiac MRI in Myocarditis](#) [Guideline]
Updated Lake Louise criteria for cardiac MRI diagnosis of myocarditis; establishes T1/T2 mapping and LGE as noninvasive standard.
- [2022 AHA/ACC Heart Failure Guideline](#) [Guideline]
GDMT recommendations for myocarditis-related heart failure including ARNi, beta-blocker, MRA, SGLT2i; exercise restriction guidance.
- [Giant-Cell Myocarditis — Clinical Characteristics \(Cooper et al.\)](#) [Primary Study]
Landmark NEJM case series defining giant-cell myocarditis prognosis, biopsy findings, and immunosuppression response.
- [Checkpoint Inhibitor Myocarditis — Lancet 2018 \(Moslehi et al.\)](#) [Primary Study]
Characterizes immune checkpoint inhibitor-associated myocarditis; provides incidence, clinical features, and fatality rate.
- [Vaccine-Associated Myocarditis \(mRNA COVID Vaccines\) — JAMA 2021](#) [Primary Study]
CDC/ACIP data on mRNA COVID-vaccine-related myocarditis incidence, demographics, and favorable clinical course.
- [COVID-19 and Myocarditis — Circulation 2021 \(Bozkurt et al.\)](#) [Review]
AHA scientific statement on SARS-CoV-2 myocarditis; contrasts vaccine-related vs infection-related risk.
- [Return to Play After Myocarditis — ACC/AHA 2020](#) [Guideline]
ACC/AHA eligibility recommendations for competitive athletes with myocarditis; basis for 3-6 month exercise restriction.
- [Myocarditis Foundation — Patient Education](#) [Patient Resource]
Patient-facing overview from the leading myocarditis patient advocacy organization.
- [Cleveland Clinic — Myocarditis](#) [Patient Resource]
Plain-language patient education used for framing benchmarking and 6th-grade readability reference.
- [AHA — Myocarditis](#) [Patient Resource]
AHA patient-facing page; benchmark for scope coverage and lay language.
- [IMAC Registry — Myocarditis Natural History Study](#) [Primary Study]
IMAC registry data on spontaneous recovery rates in viral myocarditis (Circulation 2004); provides 50% recovery and DCM progression rates.



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About This Guide

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Version: 2026-08-15

Reviewer note: Reviewed against AHA, Cleveland Clinic, and Myocarditis Foundation pages. This guide adds: checkpoint-inhibitor myocarditis detail, balanced vaccine framing with COVID risk comparison, Lake Louise MRI criteria in lay terms, 3–6 month exercise restriction rationale, giant-cell prognosis, and MINOCA concept.

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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25 of 25 | Page



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