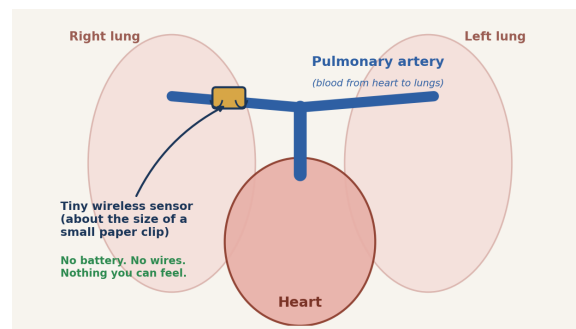


Understanding the CardioMEMS Heart Failure Sensor

A tiny wireless pressure sensor that lets your team watch your heart failure from home

It catches rising pressure days before you feel sick — so we can fix it before you need the hospital.



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

Rias KS Ali, MD FACC

Board Certified in Interventional Cardiology & Cardiovascular Disease

4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com

Last Updated: August 2026



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Names & Terms You Will Hear

Term	Meaning
CardioMEMS HF System	The full name of the device. CardioMEMS stands for Cardio MicroElectroMechanical System. 'HF' means heart failure. It is made by Abbott.
Pulmonary artery (PA) pressure sensor	The sensor sits in the pulmonary artery — the blood vessel that carries blood from the heart to the lungs. It measures the pressure there.
Implantable hemodynamic monitor	A medical term for a device placed in the body that measures blood-flow pressures. 'Hemodynamic' just means how blood moves and the pressures behind it.
PA pressure-guided care	Adjusting your heart-failure treatment based on the pressure number from the sensor — instead of waiting for symptoms or weight gain.
Battery-free / leadless sensor	The sensor has no battery and no wires. It is powered by radio waves from the home pillow only for the few seconds it takes a reading.
Daily home reading	Lying on the special pillow or pad once a day so the sensor can send your pressure number to the clinic. It takes only a few seconds.
Right heart catheterization	The short procedure used to place the sensor. A thin tube is passed through a vein (usually in the groin or neck) up to the pulmonary artery.

This is a monitor — not a pacemaker or defibrillator.

CardioMEMS only measures pressure and sends a number. It cannot pace your heart and cannot shock it. If you want to understand pacemakers and ICDs (which DO pace and shock), see our [Pacemaker & ICD guide](#).



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

What Is the CardioMEMS Heart Failure Sensor?

- CardioMEMS is a tiny wireless sensor — about the size of a small paper clip. It is placed permanently inside the pulmonary artery, the vessel that carries blood from the heart to the lungs.
- It measures the PRESSURE in that artery. In heart failure, this pressure rises when fluid is backing up — and it rises DAYS before you gain weight or feel short of breath.
- The sensor has no battery and no wires. Once a day, you lie on a special pillow (a home electronics unit) for a few seconds. The pillow powers the sensor by radio and reads the pressure. You feel nothing.
- That number uploads to a secure website your care team checks. If the pressure is climbing, they can change your medicine — usually a water pill (diuretic) — before you ever feel sick.
- It is a MONITOR ONLY. It does NOT shock your heart and does NOT pace it. It is completely different from a pacemaker or a defibrillator (ICD). See our Pacemaker & ICD guide if you want to know about those.
- The goal is simple: catch trouble early, adjust treatment early, and keep you out of the hospital.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

What CardioMEMS Is — and What It Is NOT

	CardioMEMS (this device)	Pacemaker / ICD (different device)
What it does	Measures pressure and sends a number	Paces a slow heart / shocks a deadly fast rhythm
Shocks or paces?	No — monitor only	Yes — that is its whole job
Where it sits	Inside the pulmonary artery	Generator under the collarbone, leads in the heart
Battery?	None — powered by the home pillow	Yes — replaced every 5-12 years
Can you feel it?	No	There is a small lump under the skin
Main goal	Catch fluid buildup early, avoid hospital stays	Prevent death from slow or dangerous fast rhythms



Visit
RiasAliMD.com

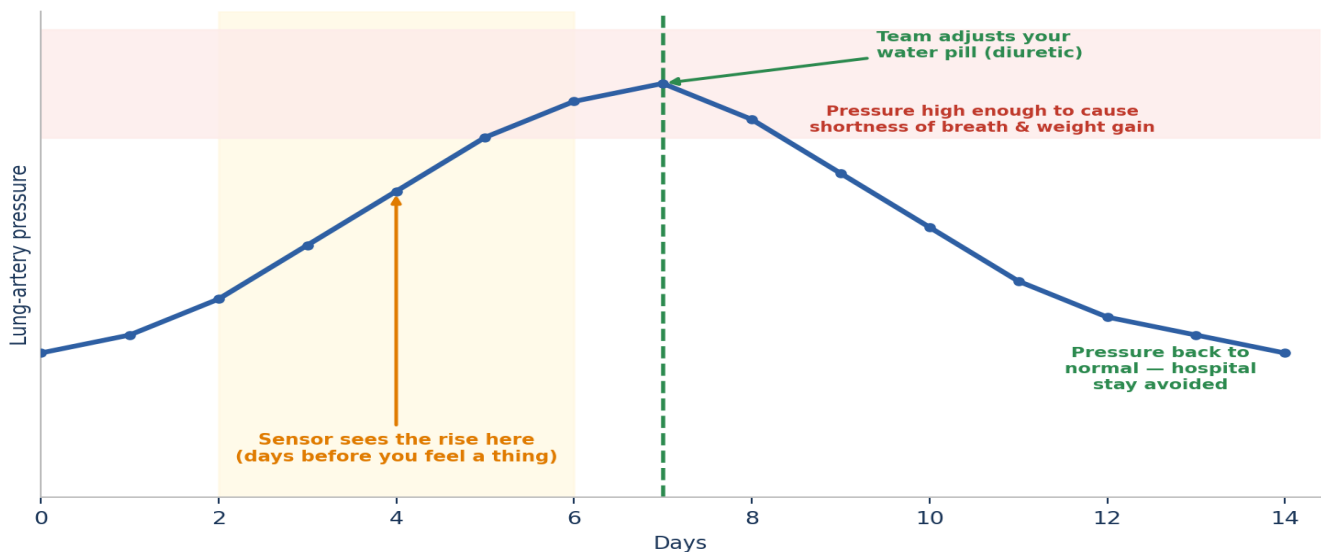
This guide is educational only. Always follow your doctor's specific recommendations.
 4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
 Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Why It Matters

- Most heart-failure hospital stays start the same way: pressure in the lungs creeps up for days, fluid backs up, and only THEN do you feel short of breath or notice the scale climbing. By the time you feel it, you are often already in trouble.
- CardioMEMS catches that pressure rise early — before symptoms, before weight gain. That gives your team a head start to fix it with a small medicine change at home.
- In the CHAMPION trial (550 patients with class III heart failure), care guided by the sensor cut heart-failure hospital stays by 28% at 6 months, and by 37% over the full study.
- The later GUIDE-HF trial tested the sensor in a broader group (class II to IV). Before the COVID-19 pandemic disrupted it, results favored sensor-guided care — which is why the FDA expanded who can get the device in 2022.
- Fewer hospital stays means more time at home, fewer setbacks, and a better quality of life. But the device does not treat heart failure by itself — it is an early-warning tool that helps your team act sooner.



Why early matters. In heart failure, lung-artery pressure climbs for days before you feel short of breath or gain weight. The sensor sees that rise in the early window (amber), so your team can adjust your water pill before the pressure ever reaches the level that puts you in the hospital.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Why Pressure Rises Before You Feel Anything

- In heart failure, the heart cannot keep up, so blood and fluid back up behind it — into the lungs. This raises the pressure in the pulmonary artery first.
- For days, your body compensates. The pressure is climbing, but you may feel fine and your weight may not have changed yet.
- Only after the pressure has been high for a while does fluid leak into the lung tissue. THAT is when you finally feel short of breath, cough, or see the scale jump.
- By then you are often days into a flare and may already need the hospital. Symptoms and weight are real, but they are LATE signals.
- The sensor reads the pressure itself — the earliest signal. Catching the rise in that quiet early window is what lets a small medicine change prevent a big crisis.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

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
Class III heart failure with a hospital stay in the past year	This was the original group the device was approved for and studied in (CHAMPION). These patients have the most to gain from catching pressure early.
Class II heart failure with a worsening blood test	Since 2022 the FDA also approved the sensor for class II patients whose natriuretic-peptide blood test (BNP or NT-proBNP) shows worsening heart failure.
Frequent heart-failure hospital stays	If you keep ending up in the hospital despite good medicines, the sensor can help your team stay a step ahead of the fluid buildup.
Hard-to-control symptoms despite treatment	When symptoms keep flaring even on the right medicines, a real pressure number takes the guesswork out of dosing your water pill.
Able and willing to take a daily reading	The device only works if you use it. You (or a caregiver) must be able to take the reading each day and respond to the team's calls.

Who the FDA Has Approved CardioMEMS For

Group	Details
Original approval (2014)	Class III heart failure WITH a heart-failure hospital stay in the past year (from the CHAMPION trial).
Expanded approval (2022)	Also class II heart failure with a worsening natriuretic-peptide blood test (BNP or NT-proBNP), based on the GUIDE-HF trial.
Always required	Able and willing to take a daily reading and respond to the care team — the device only helps if the data is used.



Visit
RiasAliMD.com

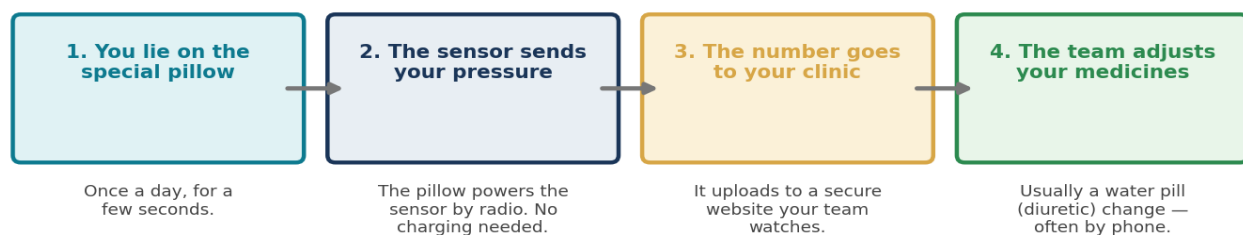
This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Treatment Options

- Placing the sensor is a short procedure called a right heart catheterization. A thin tube is passed through a vein — usually in the groin or neck — up to the pulmonary artery. The sensor is released there and stays permanently.
- It is usually done with light sedation, takes under an hour, and most patients go home the same day. There is no cut on the chest and no device pocket under the skin.
- Before you leave, the team takes a baseline reading and sets your target pressure range. They teach you how to use the home pillow.
- At home, you take ONE reading a day — lie on the pillow for a few seconds, usually first thing in the morning before eating. The number sends automatically. There is nothing to charge and nothing to feel.
- Your team reviews the numbers and contacts you if the pressure is rising. Most changes are simple — often a temporary increase in your water pill (diuretic) — and are handled by phone.
- Keep taking ALL of your heart-failure medicines exactly as prescribed. The sensor guides the dose of some medicines; it does not replace any of them. (See our Medication Adherence guide.)
- The sensor is MRI-conditional — most MRI scanners are safe with it, but always tell the imaging team you have a CardioMEMS sensor before any scan.



The catch: the device only helps if you take the reading every day and follow the changes your team sends back.

What you actually do each day. You lie on the pillow for a few seconds; the sensor sends your pressure; the number reaches your clinic; the team adjusts your medicine if needed. The loop only works if you take the reading every day and follow the changes they send back.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

The Daily Home Reading — What You Do

- Once a day, lie down on the special pillow (the home electronics unit). Get comfortable and stay still for a few seconds.
- The pillow sends a radio signal that powers the sensor and reads your pulmonary-artery pressure. You feel nothing at all.
- The reading uploads on its own to a secure website your care team watches. You do not have to call anyone or send anything.
- Pick a consistent time — most people choose the morning, before eating and before taking medicines. A routine means you never miss a day.
- There is nothing to charge, no needle, and no discomfort. The whole thing takes less time than brushing your teeth.
- If your pillow shows an error or will not send for more than a day, call us — we do not want a gap in your numbers.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Who Benefits — and Why It Only Works If You Act On It

- The device helped most in people with heart failure who keep landing in the hospital or have stubborn symptoms despite good medicines.
- In the CHAMPION trial (550 patients, class III), pressure-guided care cut heart-failure hospital stays by 28% at 6 months and 37% over the full study.
- The GUIDE-HF trial tested a broader class II-IV group. Before COVID-19 disrupted it, results favored sensor-guided care — leading the FDA to expand who qualifies in 2022.
- The trials share one lesson: the benefit came from ACTING on the pressure number — usually adjusting a water pill — not from simply having the sensor.
- So your part matters as much as the device: take the daily reading, answer the team's calls, and follow the medicine changes. A sensor whose data is ignored does nothing.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Comfort Measures at Home (No Medication Needed)

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

- Take your reading at the same time every day — most people pick the morning, before breakfast and before medicines. A routine means you never forget.
- Keep weighing yourself daily too. The sensor is the early warning, but your weight and symptoms still matter and help your team see the full picture.
- Watch your salt and fluid as your team advises. Less salt means less fluid backing up — which keeps the pressure number in a good range.
- Keep a simple log of how you feel — breathing, swelling, energy — and share it at visits. The number plus your story is more powerful than either alone.
- Make sure your home pillow has a good cell or internet signal where you use it, so readings always go through.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Risks, Benefits, and Alternatives

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

Option	Risks	Benefits	Alternatives
CardioMEMS sensor implant	Small procedure risks (about 1-2 in 100): bleeding or bruising at the vein site, a rare problem moving the tube to the artery, and very rarely a blood clot in the artery. Long-term risks are very low because the sensor has no battery or wires to fail.	Catches rising pressure days before symptoms. Lets the team adjust medicine early. Cut heart-failure hospital stays by 28-37% in the CHAMPION trial. No chest cut, no pocket, usually home the same day.	Daily weights and symptom tracking alone — useful but late, since they change only after pressure is already high. Standard clinic visits only. Other monitoring built into a pacemaker/ICD if you have one.
Daily home monitoring with the sensor	You must take a reading every single day. It needs a working signal. The data only helps if you and the team act on it. Some people find a daily task tiring over years.	A real pressure number takes the guesswork out of dosing. Problems are caught between visits, not just at them. Most adjustments are quick phone calls — no extra trips.	Symptom-only follow-up (wait until you feel bad). Remote checks from a pacemaker/ICD if present. More frequent in-person visits, which are harder and slower to catch a rise.
Acting on the pressure number (medicine changes)	Adjusting a water pill can affect your kidneys and salts (potassium, sodium). Your team will check labs. Too much diuretic can leave you dry; too little lets fluid build.	Early, small medicine changes prevent big crises. Most changes are temporary. Keeps you out of the hospital and feeling steadier day to day.	No change until symptoms appear — simpler but means waiting for trouble. Fixed medicine doses regardless of pressure, which the trials showed works less well.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Common Misconceptions

Myth	Reality
CardioMEMS is a kind of pacemaker or defibrillator.	No. It is a MONITOR only. It measures pressure and sends a number. It cannot pace your heart and cannot shock it. Pacemakers and ICDs are completely different devices — see our Pacemaker & ICD guide.
I will feel the sensor or have to charge it.	No. The sensor has no battery and no wires. It is powered by radio from the home pillow only during the few seconds of a reading. You cannot feel it, and there is nothing to charge — ever.
Once it is in, the device does the work for me.	No. The device only sends a number. It helps ONLY if you take the daily reading and the team acts on it — usually a medicine change. Skipping readings or ignoring the team's calls makes it useless.
The sensor treats my heart failure.	No. It does not treat heart failure. It is an early-warning tool. You still need all your heart-failure medicines. The sensor just helps your team dose them better and sooner.
If my pressure is high, I will feel it, so I do not need a sensor.	Not true. The whole point is that pressure rises DAYS before you feel anything. By the time you notice symptoms or weight gain, you are often already heading for the hospital.
The sensor has to come out someday or its battery will die.	No. It is permanent and battery-free, so it never needs to be replaced or removed. It is designed to stay in the pulmonary artery for life.
A daily reading means a daily trip to the clinic.	No. You take the reading at home in a few seconds. The number uploads on its own. Your team only contacts you if something needs attention — usually a quick phone call.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Possible Complications

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

Where / What	What Can Happen
At the implant procedure	Bleeding or bruising at the vein entry site is the most common issue and usually minor. Serious problems are uncommon (about 1-2 in 100).
Pulmonary artery / blood vessel	Very rarely, moving the tube can injure the artery or, in rare cases, cause a blood clot (pulmonary embolism). The team watches closely during and after placement.
Sensor function	Because there is no battery or wire, long-term device failure is very rare. Occasionally a reading does not transmit and must be repeated — a signal or position issue, not a device failure.
Reacting to the data	Adjusting diuretics can upset kidney function or salt levels (potassium, sodium). Your team checks blood tests so changes stay safe.
Daily-routine burden	Some patients find a daily reading tiring over the years, or have trouble with the home equipment or signal. Tell your team early — they can help simplify it.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Points to Know

If you remember nothing else, remember these key points.

- CardioMEMS is a MONITOR, not a pacemaker or defibrillator. It measures pressure and sends a number — it never shocks or paces your heart.
- It sits permanently in the pulmonary artery (heart-to-lungs vessel). It is battery-free and wireless — nothing to charge, nothing you can feel.
- Rising lung-artery pressure shows up DAYS before symptoms or weight gain. That early warning is the whole reason the device exists.
- Take your reading every single day — usually morning, on the pillow, a few seconds. Missing days defeats the purpose.
- The device only helps if the data is acted on. Answer the team's calls and follow the medicine changes (often a water-pill adjustment).
- Keep taking ALL your heart-failure medicines. The sensor guides doses; it does not replace any drug. (See our Medication Adherence guide.)
- In the CHAMPION trial, sensor-guided care cut heart-failure hospital stays by 28% at 6 months and 37% over the full study.
- Always tell any MRI or imaging team you have a CardioMEMS sensor before a scan.

Learn more about your heart failure. CardioMEMS works alongside your full treatment plan. See our [Advanced Heart Failure](#), [Heart Failure with Reduced EF](#), and [Heart Failure with Preserved EF](#) guides — and our [Medication Adherence](#) guide, since the sensor only helps if you keep taking your medicines and respond to dose changes.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

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.

- You are short of breath at rest, cannot lie flat, or wake up gasping — call us today. If it is severe, call 911.
- You gained 3 or more pounds in a day, or 5 pounds in a week — call us. This is a fluid-buildup warning even if the sensor reading looked fine.
- Your legs, ankles, or belly are newly swollen, or your usual swelling is suddenly worse — call us this week.
- Your home pillow will not take a reading, will not send, or shows an error for more than a day — call us so we do not miss your numbers.
- You feel dizzy, very weak, or are urinating much less after a water-pill change — call us today. Your dose or labs may need a check.
- Bleeding, swelling, or growing pain at the vein site in the first days after the implant — call us today.
- Chest pain, fainting, or a fast or pounding heartbeat — call us. If severe or it does not pass, call 911.
- Before any MRI, surgery, or new procedure — tell that team you have a CardioMEMS sensor, and call us if you are unsure.

Office: (727) 943-5200



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

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.

- [Cleveland Clinic — CardioMEMS HF System](#) - Patient-friendly overview of the sensor, the implant, and the daily home reading.
- [Mayo Clinic — Heart Failure: Diagnosis & Treatment](#) - Plain-language look at heart-failure treatment and the goal of staying out of the hospital.
- [American Heart Association — Devices to Treat Heart Failure](#) - AHA overview of device options for heart failure, including pressure monitoring.
- [American Heart Association — Heart Failure Hub](#) - Trusted starting point for understanding heart failure, symptoms, and self-care.
- [MedlinePlus — Heart Failure](#) - Government health resource summarizing heart-failure basics, treatment, and follow-up.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

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.

- [Cleveland Clinic — CardioMEMS HF System](#) [Patient Education]
Plain-language overview of the implanted pulmonary-artery pressure sensor, daily home readings, and how it lets the team adjust medicines before symptoms worsen.
- [Mayo Clinic — Heart Failure Diagnosis and Treatment](#) [Patient Education]
Patient-facing framing of advanced heart-failure monitoring and the shared goal of keeping people out of the hospital.
- [American Heart Association — Devices and Surgical Procedures to Treat Heart Failure](#) [Patient Education]
Places implantable hemodynamic (pressure) monitoring among the menu of device therapies offered for heart failure.
- [CHAMPION Trial — Wireless Pulmonary Artery Haemodynamic Monitoring in Chronic Heart Failure \(Lancet 2011\)](#) [Trial]
Landmark randomized trial in 550 NYHA class III patients: pulmonary-artery pressure-guided care cut heart-failure hospitalizations 28% at 6 months and 37% over the full study.
- [GUIDE-HF Trial — Haemodynamic-Guided Management of Heart Failure \(Lancet 2021\)](#) [Trial]
Randomized trial extending CardioMEMS testing to a broader NYHA class II-IV population; pre-COVID analysis favored pressure-guided care, supporting the expanded FDA indication.
- [FDA / Abbott — CardioMEMS HF System Receives Expanded Indication \(Feb 2022\)](#) [Regulatory]
Documents the 2014 original approval (NYHA III + prior HF hospitalization) and the February 2022 expansion to NYHA class II and patients with elevated natriuretic peptides.
- [2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure \(Circulation\)](#) [Guideline]
Current U.S. heart-failure guideline; addresses implantable pulmonary-artery pressure monitoring as a strategy to reduce HF hospitalizations (a 2b / value-uncertain recommendation).
- [Abbott — CardioMEMS HF System Product Overview](#) [Manufacturer]
Device-maker reference for the sensor design (battery-free, permanent), the home electronics unit, and the daily reading workflow.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

About This Guide

Rias KS Ali, MD FACC | Board Certified in Interventional Cardiology & Cardiovascular Disease

4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com

Version: 2026-08-15

Reviewer note: Reviewed against Cleveland Clinic, Mayo Clinic, and AHA patient pages, plus Abbott's device guide. Ours adds: a cover diagram showing exactly WHERE the sensor sits (inside the pulmonary artery); a four-step home-reading-to-clinic data-flow diagram; a pressure-rises-before-symptoms timeline that shows the early-warning window CardioMEMS uses; a tinted 'monitor vs pacemaker/ICD' table so patients never confuse it with a defibrillator; trial numbers by name (CHAMPION 28%/37%, GUIDE-HF); and an honest 'it only works if the data is acted on' section.

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.



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info

Take This Guide With You



Scan or visit: <https://go.riasalimd.com/cardiomems-guide>

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

Office: (727) 943-5200

4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com



Visit
RiasAliMD.com

This guide is educational only. Always follow your doctor's specific recommendations.
4740 Mile Stretch Drive, Holiday FL 34690 | Office: (727) 943-5200 | Fax: (727) 943-5201 | RiasAliMD.com
Online: <https://go.riasalimd.com/cardiomems-guide>



Save
Contact Info