

THRIVE

WELLNESS & PERFORMANCE

How to Read Your Nervous System

What your HRV data is actually telling you,
and what it isn't.

A field guide from

Dr. Jay T. Wiles

Dr. Jay T. Wiles · Thrive Wellness and Performance

The Gauge Problem

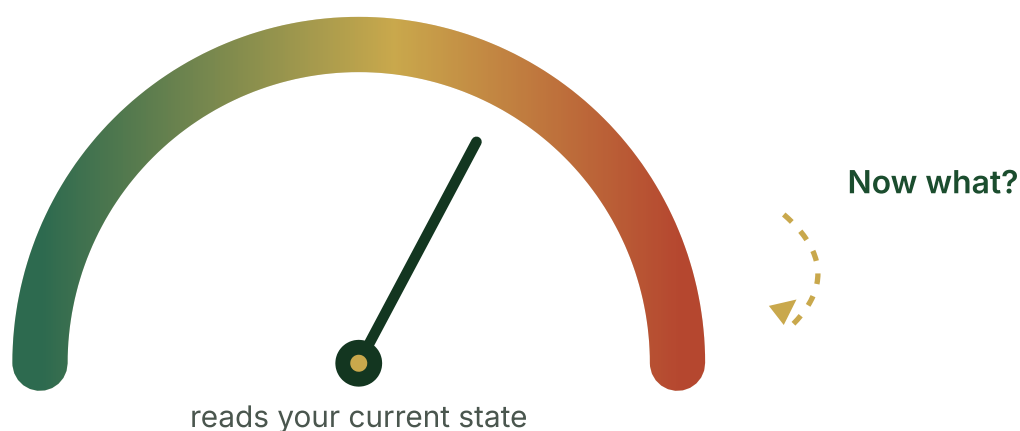
You have been tracking your heart rate variability for a while now. Maybe a couple of years. You check it most mornings, before coffee, before the day gets loud. You know your numbers. You know what a good day looks like and what a rough one looks like.

Here is the question nobody has answered for you: now what?

The number went down. Do you train harder or back off? The number went up. Did you do something right, or did you just sleep well? You have a green readiness score and you feel terrible. You have a red one and you feel fine. After two years of data, you can describe your nervous system in detail. You still cannot change it on purpose.

That is not your fault. You were sold a gauge and told it was a training tool. They are not the same thing.

A GAUGE READS. IT DOES NOT TRAIN.



Your wearable is the most sophisticated gauge ever built. It reads the system beautifully. It was never designed to change what it measures, and it doesn't. **Reading the gauge is not training the engine.**

A gauge tells you the current state of a system. The fuel gauge in your car tells you how much gas is in the tank. It is useful. It is also completely silent on how to put gas in the tank, how big the tank is, or how to make the engine run better on less. Your wearable is a gauge. It reads your nervous system and reports back. It was never designed to change what it measures, and it doesn't.

So you have spent two years reading the gauge. Watching it move. Trying to infer, from the outside, what your nervous system wants. That is a hard way to live, and it is why HRV tracking so often stalls out into a habit with no payoff. You are not doing it wrong. You are using a measurement tool and expecting it to train you.

This guide is about the other thing. Not reading the gauge, but understanding the engine underneath it well enough to actually change how it runs. By the end you will know what your HRV data is genuinely telling you, which of the things you believe about it are wrong, and what separates the people whose numbers improve from the people whose numbers just fluctuate for years.

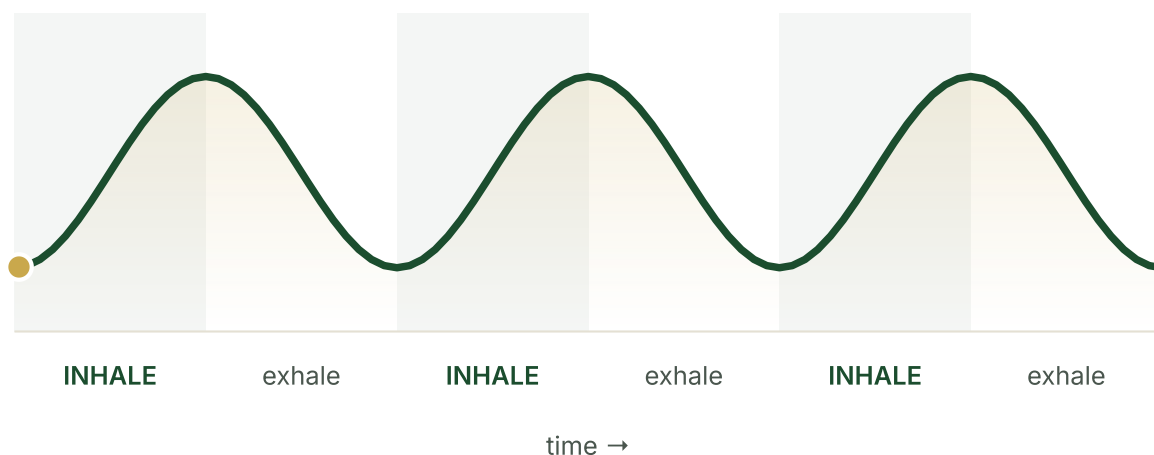
Let's start with what the number actually is, because most of what you have been told about that is either incomplete or flatly incorrect.

What HRV Actually Is

Your heart does not beat like a metronome. This is the first thing to understand, and it is the thing almost nobody is taught.

Try this before you read further. Inhale slowly through your nose to a count of five. Then exhale slowly to a count of five. Do it once more and pay attention to your pulse. Did you feel it quicken slightly as you breathed in, and settle as you breathed out? That is your autonomic nervous system at work, sped up on the inhale, slowed on the exhale. What you just felt, in an exaggerated form, is variability. It is happening every moment of every day, far too subtly to notice without slowing your breath down like that.

WHAT YOU JUST FELT: YOUR PULSE TRACKING YOUR BREATH



Heart rate rises as you breathe in and falls as you breathe out. That rhythmic rise and fall is a window into your autonomic nervous system. **The variation is the signal.** A flat line here would be the worrying result, not the calm one.

Put your finger on your pulse and it feels steady. It isn't. The time between one beat and the next is constantly changing, by milliseconds, beat to beat. Right now the gap between

your heartbeats might be 0.9 seconds, then 0.85, then 0.92. That variation is normal. More than normal, it is a sign the system is working well.

Heart rate variability is the measure of that beat-to-beat variation. That is all it is. Not the speed of your heart, the variation in the spacing between beats.

Here is why that variation exists, and why it matters. Your heart is under constant instruction from two branches of your autonomic nervous system, the part that runs everything you don't consciously control. One branch, the sympathetic, speeds the heart up. It is the accelerator. The other, the parasympathetic, slows it down. It is the brake. These two are always both active, always negotiating, adjusting your heart rate second by second in response to your breath, your posture, your stress, your recovery.

When that negotiation is healthy and responsive, the spacing between beats varies a lot. High variability. When the system is stressed, fatigued, or under-recovered, the negotiation gets rigid and the spacing evens out. Low variability. This is the counterintuitive part: a heart that beats with more variation is usually the healthier, better-regulated one. Steadiness in the spacing is not a sign of calm. It is often a sign of strain.

So when your wearable shows you an HRV number, it is giving you a snapshot of how freely those two branches are negotiating. A window into your autonomic state at the moment of measurement. That is genuinely useful information. It is real.

But notice what it is and what it isn't. It is a reading of state. A photograph of the negotiation at one moment, usually taken while you slept or first thing in the morning. It tells you where the system is. It tells you nothing about how to move it somewhere better. And, as we are about to see, even the reading itself is widely misunderstood, because the popular version of "high parasympathetic equals good" is not quite how the system actually works.

The Myths Worth Unlearning

Most of what circulates about HRV is not wrong on purpose. It is just simplified to the point of being misleading, usually by people selling a device that benefits from the simplification. Here are the four that cost you the most.

✕ MYTH ONE

Higher is always better.

The wearable industry trained you to want a bigger number. Chase the number, celebrate when it climbs, worry when it drops. But HRV is deeply individual. A healthy value for you might be half of someone else's and mean nothing about your relative fitness or resilience. Your number is only useful compared to your own baseline, and even then, the direction and consistency of the trend matter far more than any single reading. A number that is high but wildly erratic day to day is telling you less good news than a moderate number that holds steady. You are not chasing a high score. You are building a stable, responsive system.

✕ MYTH TWO

A bad morning reading means a bad day.

You wake up, you check, the number is down, and now you have a story about how the day is going to go. But a single morning reading is a photograph, not a forecast. It reflects one moment, shaped by last night's sleep, what you ate, when you ate it, whether you dreamed, the temperature of the room. One low reading is noise. The signal lives in the pattern across weeks, not in today's snapshot. When you react to every daily wobble, you are responding to weather, not climate.

✗ MYTH THREE

More parasympathetic is the goal.

This is the one almost everyone gets wrong, and it is the most important to fix. The popular story says the parasympathetic branch, the brake, is the good one, and the goal is to have as much of it as possible. Relax more, activate the brake, drive the number up. But a nervous system stuck in the brake is not resilient. It is just stuck in a different place. A system that cannot mount a sharp stress response when you need one, that cannot shift into focus or effort and then come back down, is not well-regulated. It is rigid on the calm end instead of the stressed end. The goal was never maximum brake. The goal is a system that moves cleanly between accelerator and brake and back, matching your physiology to whatever the moment actually demands. Regulation is not calm. Regulation is range.

✗ MYTH FOUR

Your readiness score is your nervous system.

Every wearable now gives you a single tidy score. Recovery, readiness, whatever they brand it. It feels authoritative because it is one clean number. But that score is a proprietary formula, built inside a company, blending your HRV with resting heart rate, sleep, and other inputs by a recipe you cannot see and cannot question. It is a convenience, not a truth. Sometimes it is useful. Sometimes it flatly contradicts how you feel, and you are left trusting a black box over your own experience. Your nervous system is not a score somebody sells you. It is a real physiological system you can learn to read directly, which is what the rest of this guide is about.

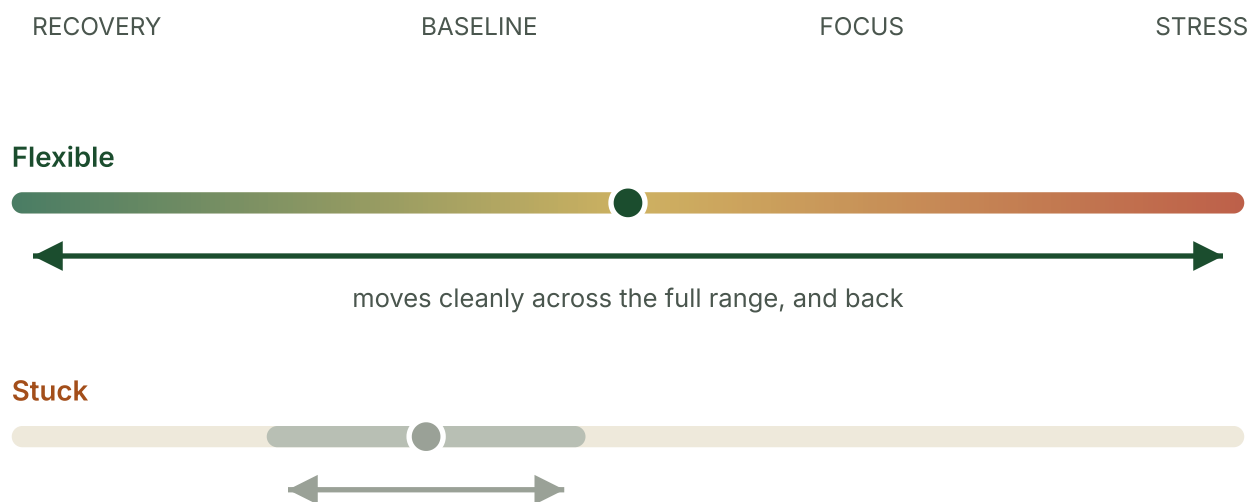
What "Good" Actually Looks Like

If the goal is not a higher number, and not maximum calm, then what is it?

The answer is a single capacity, and once you see it you cannot unsee it. The goal is the ability to shift states on demand. To move into sharp focus when the work requires it. Into a hard stress response when the moment is genuinely demanding. Into deep recovery when it is time to restore. And, critically, to move back to baseline cleanly after each one, without getting stuck.

That capacity has a name: **autonomic flexibility**. It is the range and responsiveness of your nervous system. How wide a span of states you can access, how quickly you can move between them, and how efficiently you return to center when the demand passes.

FLEXIBILITY IS RANGE, NOT A SINGLE HIGH NUMBER



A single high reading tells you almost nothing about flexibility, because flexibility is not a state, it is a **range**. The healthy system is not parked in one place. It stretches and returns.

Think about what this looks like in a real day. The morning meeting that needs your full edge, and then the ability to come down from it instead of carrying the activation into lunch. The hard training session, followed by a genuine shift into recovery rather than a body that stays wired for hours. The stressful call at four o'clock that you can actually leave at the office, because your system knows how to close the loop. That is flexibility. Not the absence of stress, the ability to enter it and exit it on purpose.

This reframes everything about what you have been measuring. A single high HRV reading tells you almost nothing about flexibility, because flexibility is not a state, it is a range. You cannot see it in one morning's number. You see it in how your system behaves across days and demands, whether it can stretch and recover, or whether it is stuck, high or low, unable to move.

This is also why the people who make real progress are not the ones chasing a bigger number. They are the ones building a more responsive system. A nervous system that can go up hard and come down clean is worth far more than one parked at an impressively high resting value that cannot move when life asks it to.

And here is the part that matters most, the part the gauge will never tell you: flexibility is trainable. It is a physical capacity, like strength or endurance. It responds to the right kind of structured, repeated stimulus, and it improves. Which raises the obvious question. If your wearable only measures this capacity and cannot build it, what actually can? That is where we turn next, to the landscape of tools you already have, and the exact point where every one of them stops.

What You Already Have, and Where It Stops

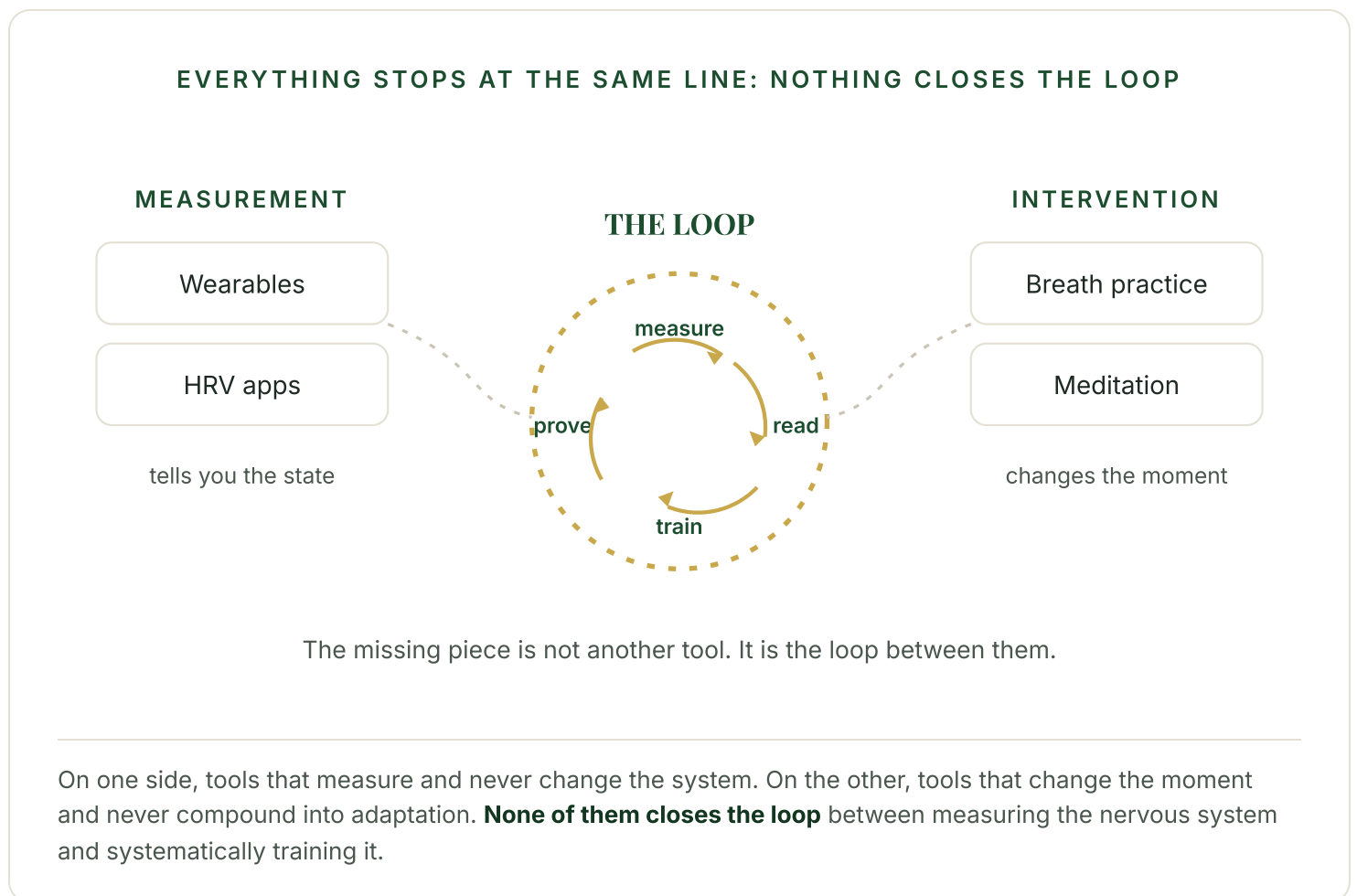
By now you might be wondering whether the tools you already own can do this. It is a fair question, and the honest answer is worth walking through, because each of these does something real. The problem is not that they are bad. The problem is that they were all built to do a different job than the one you now know you need.

Wearables (the ring, the watch, the strap). These are genuinely good at what they do: continuous, passive measurement. They track your HRV, your resting heart rate, your sleep, night after night, without you thinking about it. That is real value. If you want to know the state of your system this morning, they will tell you. But measurement is the whole of it. A wearable watches. It does not intervene. It is the most sophisticated gauge ever built, and it is still a gauge. It will show you the number moving for years and never once tell you how to move it on purpose.

HRV apps. A step closer. The better ones give you cleaner readings, morning baselines, and trend lines that are more honest than a wearable's black-box readiness score. Some let you take a proper measurement instead of inferring from the wrist. This is more control and better data. But it is still measurement. A sharper gauge is still a gauge. You end up with a more accurate picture of a system you still do not know how to change.

Breathwork apps and practices. Now we are on the side of intervention, and this is where it gets interesting, because the right kind of breathing is the single most powerful conscious input you have to your nervous system. The problem is not breathing. The problem is how it is usually packaged: a session here and there, no individual target, no measurement, no progression. Run a guided session, feel calmer for an hour, start over tomorrow. Used that way, it is a reset button, and a reset is not an adaptation. But breathing done at your own specific resonance frequency, practiced daily, measured, and progressed like any other kind of training, is a completely different thing. That is not a reset button. That is the engine of the whole system, and it is where the actual training begins.

Meditation and mindfulness. Deep, well-studied, genuinely valuable, and aimed at something slightly to the side of what we are after. Meditation trains attention. It changes your relationship to your thoughts and, over time, to stress itself. That is worth doing. But its target is the mind, the quality of your attention, not the direct, physiological training of the autonomic system. It can lower your stress. It is not built to widen your autonomic range on demand.



See the pattern. On one side, the measurement tools: wearables and HRV apps, excellent at telling you the state, incapable of changing it. On the other, the intervention tools: excellent at changing how you feel in the moment, but, in the way they are usually used, not structured to produce lasting, measurable adaptation in the system itself.

The missing piece is not another tool from this list. It is the thing that connects them: taking real measurement, reading it the way a clinician would, and turning it into a specific, progressive training plan that changes the system over weeks, then proving the change

with the numbers. Measurement on one side, trained intervention on the other, and a loop between them that actually closes. That loop is what the rest of this guide is about.

What It Looks Like When the Loop Closes

Everything so far has been the argument. This is the proof.

Below are two real reports, anonymized, from people doing exactly the training this guide has been describing. Daily resonance frequency practice, measured every morning, read by a clinician, turned into a specific instruction. One is a single week. The other is four months. Together they show the loop closing, measurement becoming training becoming measurable change.

Look at the week first.

Your Weekly Check-In

Nervous System Stability · May 29 – June 4

Your nervous system is showing clear, positive adaptation over time. The protocol is working. The focus this week is to keep doing what you're doing.

Fri	Sat	Sun	Mon	Tue	Wed	Thu
5/29	5/30	5/31	6/1	6/2	6/3	6/4
55	57	—	55	60	57	56
RMSSD	RMSSD		RMSSD	RMSSD	RMSSD	RMSSD
CV 6.3%	CV 6.5%	CV —	CV 6.4%	CV 6.4%	CV 6.4%	CV 6.0%

BIOFEEDBACK THIS WEEK

6 of 7 days

Strong

Notice what this is and what it is not. It is not a number with no context. It opens in plain language: the system is adapting, the protocol is working, hold the current practice. Then it backs that up. Six of seven days of practice logged. Day-to-day stability at 6.3 percent,

well inside the steady range. A strip showing each day of the week, the strong ones and the harder one, so nothing is hidden.

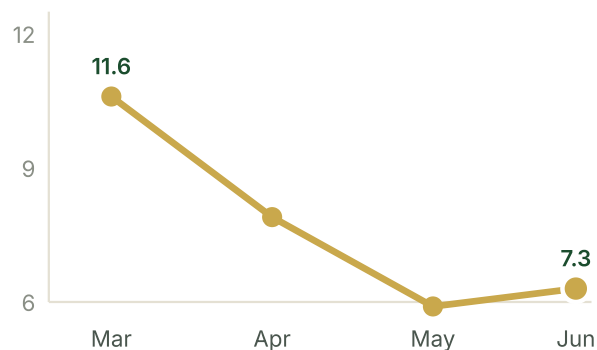
This is the thing your wearable has never once done for you. It does not just show you the gauge. It reads the gauge, tells you what it means, and tells you what to do next. That is the difference between measurement and training, made concrete. Someone who understands the system looked at your week and gave you a decision, not just a data point.

But a good week is not the point. Anyone can have a good week. The real question is whether the system is actually changing. That is what the second report answers.

Long-Term Change

Your nervous system over four months

Stability (HRV-CV) by month · lower is better



Core HRV (RMSSD) by month · higher is better



This is the same kind of training, viewed across four months, and this is where the argument of this entire guide either holds up or falls apart. It holds up. Day-to-day stability has moved from 11.6 percent in the first month to 7.3 percent now, a system getting steadier and more predictable. Core HRV has climbed from 38 to 51 milliseconds. The underlying capacity, the thing a single morning reading can never show you, is measurably higher than where it started.

That is autonomic flexibility being built, on purpose, and proven with the numbers. Not a better morning. A better system.

*The weekly keeps you on
track. The monthly proves
the track is going somewhere.*

Put the two reports side by side and you have the whole thing. The weekly keeps you on track, week to week, with a clear read and a clear instruction. The monthly proves the track is going somewhere, that the daily practice is compounding into real, durable change in the system itself. Measurement and training, finally in the same loop.

This is what your years of tracking were always missing. Not more data. Someone to close the loop.

Closing the Loop for Yourself

Let's bring this back to where we started. You have spent years reading the gauge. You know your numbers. What you have been missing is not more data, and it was never discipline. You were missing the loop: a way to take what you measure, understand what it means, and turn it into training that actually changes the system, with proof that it worked.

So here is what closing that loop actually requires.

It starts with a daily practice, and the practice at the center of all of this is resonance frequency breathing. Not breathing in general, and not a reset-button session when you feel stressed. Breathing at your own specific resonant frequency, the rate at which your cardiovascular system responds most strongly, practiced daily. This is the single most powerful conscious input you have to your nervous system, and done consistently it is the stimulus that builds autonomic flexibility over time. It is the engine of the whole thing.

A TOOL FOR THE DAILY WORK

Doing that practice well, every day, is easier with an instrument built for it. That is part of why I helped design the **Ohm Resonance Lamp**. It paces your breath at your resonance frequency and turns a practice that usually demands a screen and a chunk of concentration into something ambient and repeatable, something that fits into a life instead of competing with it. I helped build it, I use it, and I put my name on it. It is the instrument I trust for the daily training this guide has been pointing toward.

ohm.health

Use code **DRJAY** for 10% off

Then there is the other half of the loop, the half nothing you already own can do for you. Someone has to read the data. Not a black-box readiness score, not a number with no context, but a real clinical read of what your nervous system is doing, week to week and month to month, translated into a specific instruction and a plan that progresses as you do. Measurement on one side, daily training on the other, and a clinician closing the loop between them. That is the difference between owning a gauge and actually training the engine.

That is the work I do with people, and it is what the reports you just saw come from. If reading this guide made you realize you have been staring at a gauge for years without ever being handed the training, that is the place to start.

The nervous system is the most trainable system you have, and almost no one is training it. You already have the discipline. You have been measuring faithfully for years. Now you can put that same consistency toward the thing the measuring was always supposed to lead to.

**You have been reading the
engine this whole time.
It is time to train it.**

WHERE TO GO FROM HERE

Ask whether there is room

I take on a small number of people at a time, and whether there is space right now depends on who is finishing. There is no booking link and no discovery call. You email, I read it myself, and I give you an honest answer either way.

thrive-wellness.com/dr-jays-offerings

Nervous System Resiliency Training

The full framework this guide sits inside: the target adaptation, the two axes, and how the training progresses.

The Resilient Engine app

Where the daily practice is logged and the reports you saw in section six are built and reviewed.

Writing on HRV and the nervous system

Longer pieces on the framework, published as they are written.

THRIVE

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