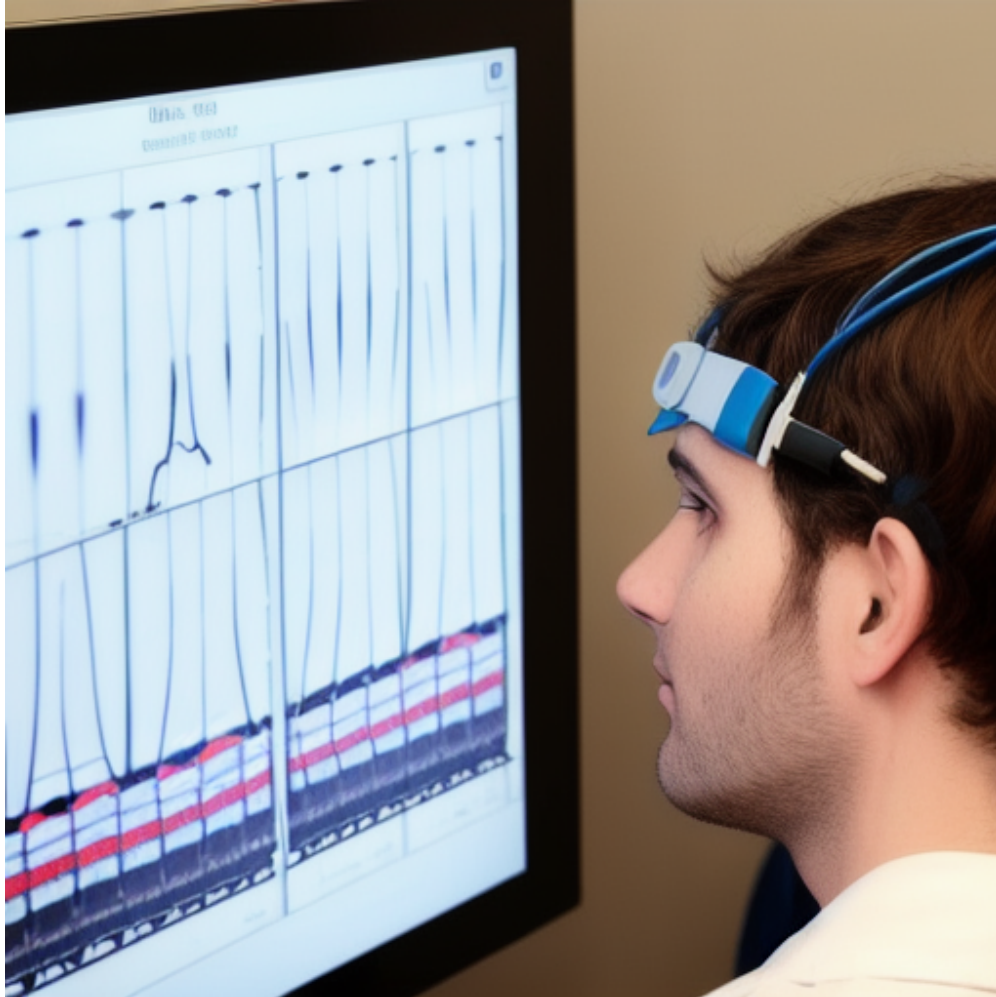


# The Neurofeedback Companion

*What EEG biofeedback is, what a session feels like, and how to decide if brain training is right for you*

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*This e-book is editorial and educational commentary published by California Neurofeedback Centers in July 2026. It explains neurofeedback in plain language as general wellness information; it is not medical, psychological, or diagnostic advice, and it is not a substitute for evaluation and treatment by a licensed clinician. Neurofeedback is a complementary modality. Nothing here diagnoses, treats, cures, or prevents any condition, and no outcome is promised. If you are experiencing a mental-health crisis, contact a qualified professional or emergency services. Verify any clinical claim against primary sources and your own care team.*

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## Foreword

Most people meet neurofeedback sideways — a friend mentions it, a podcast name-drops it, a search for "drug-free options" turns it up. What they rarely find is a plain, non-hyped explanation of what it is and is not. This book is our attempt at exactly that.

Neurofeedback is a form of EEG biofeedback: sensors read your brain's electrical activity, software turns that activity into feedback you can see or hear, and, over repeated sessions, the brain learns to settle into steadier, better-regulated patterns. It is drug-free and non-invasive. It is also not magic, not a cure, and not right for everyone.

We wrote this to help you make an informed decision. Read it front to back, keep the checklists, and bring your questions to whichever provider you eventually sit down with — including us.

## Chapter 1 — What Neurofeedback Actually Is

Your brain runs on rhythms. Different mental states — focused attention, relaxed calm, drowsy drifting, deep alertness — correspond to different patterns of electrical activity across the cortex. Neurofeedback works by measuring those patterns in real time through EEG sensors placed on the scalp, then feeding the information back to you through a game, a film that brightens and dims, or a tone.

The brain is a pattern-seeking organ. When a healthier pattern is gently rewarded — the film gets clearer, the tone stays smooth — the brain gradually learns to produce more of it. Nothing is pushed into your head; no electricity goes in. The sensors only listen. This is why practitioners describe it as *training* rather than *treatment*: you are exercising self-regulation, the way repetition on a piano trains coordination.

Because it is learning-based, it is also gradual. One session rarely rewrites anything. The change accumulates over a series, session by session.

### Field Checklist

- Understand that sensors only read activity, nothing is sent in
- Think of it as skill-building, not a one-time fix
- Expect gradual change across a series of sessions

## Chapter 2 — The Three Protocols

Every brain is different, so every training plan is too. California Neurofeedback Centers works with three distinct EEG biofeedback approaches, matched to your goals.

**Infra-Low** trains the brain at very slow, infra-low frequencies to calm an over-activated nervous system. It is often chosen to support the symptoms of ADD/ADHD, autism spectrum patterns, anxiety, stress, low mood, and post-traumatic stress. Clients frequently report better sleep and steadier days.

**Alpha-Theta** trains at the frequencies of relaxed wakefulness (Alpha) and dream-like drifting (Theta). It is favored by musicians, artists, actors, and others doing deep inner work, and is often paired with complementary emotional-release practices.

**Synchrony** trains areas of the cortex across a wider band, from Alpha up to Gamma. It is the mode most associated with peak performance — clarity, sharpness, stamina, and a steadier outlook under pressure.

The right protocol depends on what you are working toward. That match is a conversation, not a vending-machine choice.

### Field Checklist

- Identify your primary goal before choosing a protocol
- Ask which protocol fits and why
- Revisit the plan as your goals evolve

## Chapter 3 — What a Session Feels Like

The first surprise for most people is how ordinary it feels. You sit in a comfortable chair. A practitioner places a few sensors on your scalp and ears using conductive paste — no needles, no discomfort. On screen, you watch something respond to your brain: a film, a simple game, moving graphics.

You do not have to *do* anything in the effortful sense. There is no test to pass and nothing to concentrate on forcing. You relax and let the feedback happen. The brain does the learning below the level of conscious effort. Sessions typically run about thirty to forty-five minutes.

Afterward, people describe a range of sensations — calm, mild tiredness, a clear-headed lightness, occasionally nothing noticeable at all on day one. All of that is within the normal range. The meaningful signal is the trend across sessions, not any single afternoon.

### Field Checklist

- Come rested and hydrated for a clearer baseline
- Let the feedback work; don't force concentration
- Track how you feel over the week, not just the hour

## Chapter 4 — Who Tends to Try It

Neurofeedback draws a wide mix of people. Some arrive seeking relief from persistent anxiety, chronic stress, or low mood. Others come for attention and focus challenges in themselves or their children. Some are working through trauma and disrupted sleep. And a significant group is not struggling at all — they are athletes, performers, and professionals chasing sharper focus and steadier nerves under pressure.

What these groups share is a wish to work *with* the brain's own capacity to regulate itself, without medication or surgery. That framing matters. Neurofeedback is not positioned as a replacement for therapy, medical care, or prescribed treatment; for many it sits alongside those, as a complementary practice.

If you are already under a clinician's care, the best move is to loop them in. Neurofeedback works best as part of a coordinated picture, not a secret side project.

### Field Checklist

- Clarify whether you're seeking relief or optimization
- Tell your existing clinicians you're exploring it
- Treat it as complementary, not a substitute for care

## Chapter 5 — Reading the Evidence Honestly

Neurofeedback has a research base that continues to grow, and in 2026 the older "experimental" framing keeps softening — some insurers increasingly recognize EEG-based training as medically necessary for specific conditions rather than dismissing it outright. At the same time, honesty requires acknowledging that the evidence is stronger for some applications than others, and that study quality varies.

Two things can be true at once: many people report meaningful benefit, and the science is still maturing. A trustworthy provider will tell you both. Be cautious of anyone who promises guaranteed results, cites a cure, or waves away the limits of current research.

The devices used in reputable professional clinics generally hold FDA 510(k) clearance for uses such as relaxation and muscle re-education. That clearance is about the equipment's regulatory pathway — it is not a claim that neurofeedback treats any disease. Keep that distinction clear.

### Field Checklist

- Expect nuance, not guarantees, from an honest provider
- Distinguish device clearance from disease-treatment claims
- Weigh the evidence for your specific goal

## Chapter 6 — Setting Realistic Expectations

The single biggest driver of satisfaction is a realistic expectation set at the start. Neurofeedback is a series, not a single appointment. Meaningful change typically shows up over a course of sessions, and different people respond at different rates. Some notice shifts early; others need more repetitions before anything registers.

Consistency matters more than intensity. Regular, spaced sessions give the brain time to consolidate learning, much like sleep consolidates a new skill. Cramming does not help. Neither does quitting after two sessions because nothing dramatic happened.

Set a simple way to track progress — sleep quality, focus, mood, whatever your goal touches — and review it every few sessions with your practitioner. Data beats memory, and it keeps everyone honest

about whether the training is earning its place in your routine.

### Field Checklist

- Commit to a full series before judging results
- Keep sessions regular and spaced, not crammed
- Track a concrete progress measure and review it

## Chapter 7 — Choosing a Provider

Not all neurofeedback is delivered the same way. When you evaluate a provider, ask who is running the sessions and what their training is. Ask which protocols they offer and how they decide which one fits you. Ask what equipment they use and whether it holds appropriate FDA clearance for its intended use.

Ask, too, about their claims. A provider who promises to cure a condition, or who guarantees a specific outcome, is a provider to be wary of. The right answers sound measured: *here is what we commonly see, here is what we cannot promise, here is how we will track your progress and adjust.*

Finally, judge the fit as a human relationship. You will sit with these people repeatedly. Clear communication, honest framing, and a willingness to coordinate with your other care providers are as important as the technology in the room.

### Field Checklist

- Ask about credentials, protocols, and equipment clearance
- Walk away from cure claims and guarantees
- Choose a provider who coordinates with your care team

## Conclusion: Training, Not Treating

The most useful sentence in this whole book is a small one: neurofeedback trains, it does not treat. Everything reasonable about the practice flows from that. You are not being fixed by a machine; you are helping your own brain get better at regulating itself, with the machine acting as a mirror.

Held that way, neurofeedback becomes easy to evaluate. Does it fit your goal? Is the provider honest? Are you willing to commit to a series and track the result? If yes, it may be a valuable complement to the rest of your care. If the answers are shaky, there is no harm in waiting.

In 2026 the field is maturing — more research, broader recognition, better tools — and that is genuinely encouraging. But the discipline that makes it work is old and simple: consistency, honesty, and patience. Train the brain gently and repeatedly, measure what changes, and let the results speak for themselves.

## References

1. U.S. Food and Drug Administration, 510(k) Premarket Notification database — EEG biofeedback devices cleared for relaxation and muscle re-education.
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