

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Neuromuscular Therapy Protocol Generator MCP

Turn clinical data into precise therapeutic treatment sequences.

Neuromuscular Therapy Protocol Generator MCP converts patient postural distortions and trigger point maps into actionable clinical plans. Your AI client uses this tool to build ordered treatment sequences, determine specific ischemic hold durations, and design corrective stretching movements based on biomechanical data.

A+ Quality Score 100/100

nmt

neuromuscular

therapy

clinical

biomechanics



SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Neuromuscular Therapy Protocol Generator MCP

4 tools available

Cloud-hosted on Vinkius

You can now use your AI client to handle the heavy lifting of clinical planning. Instead of manually calculating hold times or sequencing stretches, you feed your patient's postural distortions and trigger point maps directly into the MCP. It translates that raw clinical data into a structured workflow. You'll get specific pressure regimes for identified trigger points and corrective stretching protocols that follow manual pressure application. It also checks your work by evaluating if the proposed sequence is safe and logical based on the patient's specific biomechanics. This moves you from raw observation to a ready-to-use therapeutic plan in seconds.

Core Capabilities

01 — Treatment Sequencing

Your agent uses this to turn clinical profiles into ordered lists of therapeutic actions.

02 — Pressure Calculation

The AI calculates exact ischemic hold durations and pressure types for specific trigger points.

03 — Post-Pressure Stretching

Your client designs corrective stretches to follow manual tissue manipulation.

04 — Safety Validation

The MCP evaluates the logic of a protocol against the patient's biomechanical data.

05 — Clinical Data Conversion

It transforms postural distortions and trigger point maps into actionable plans.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/neuromuscular-therapy-protocol-generator — connect your AI agent in three steps.

- 01 Connect your AI client to the Vinkius hosted MCP.
- 02 Input patient clinical data like trigger point maps or postural distortions.
- 03 The AI uses the tools to calculate pressure, stretches, and sequences.
- 04 Review the generated, ordered treatment plan for clinical application.

Connect your AI client to Vinkius to start generating protocols immediately.

Built For

This MCP is built for manual therapy professionals who need to turn clinical observations into structured protocols.

Neuromuscular Therapists

They provide the trigger point maps and postural data for the AI to process.

Clinical Biomechanists

They use the tool to validate the safety and logic of proposed movement protocols.

Physical Therapists

They hand off patient clinical profiles to get structured stretching and pressure sequences.

What Changes When You Connect

- 01 Converts raw postural data into ordered treatment steps.
- 02 Calculates specific ischemic hold durations for trigger point work.

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- | | |
|-----------|---|
| 03 | Provides corrective stretching sequences following manual pressure. |
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- | | |
|-----------|--|
| 04 | Validates protocol safety against biomechanical constraints. |
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Real-World Applications

Trigger Point Management

You provide a trigger point location and severity to get a specific pressure and hold duration.

Postural Correction Planning

Use patient pelvic or scapular distortions to generate a full sequence of corrective actions.

Protocol Safety Checks

Run a proposed treatment through the stability tool to ensure it respects biomechanical limits.

Post-Manipulation Stretching

Generate a specific set of stretches to perform immediately after applying manual pressure.

Patterns to Avoid

Manual sequencing from scratch

❌ AVOID

You spend twenty minutes sketching out a sequence of stretches and pressure holds on a notepad after seeing a patient.

✓ INSTEAD

Feed the patient's postural distortions and trigger point maps into the MCP to use ``generate_treatment_plan`` for an instant, ordered roadmap.

Guessing pressure durations

❌ AVOID

You decide on a hold time based on how the tissue feels without a calculated ischemic requirement.

✓ INSTEAD

Use ``calculate_pressure_regime`` to get the exact pressure type and hold duration needed for that specific trigger point.

Ignoring biomechanical limits

❌ AVOID

You design a heavy stretching routine for a patient with significant pelvic instability.

✓ INSTEAD

Run your proposed sequence through ``analyze_clinical_stability`` to ensure the movements respect the patient's specific biomechanical constraints.

The Right Fit

Manual therapy professionals and clinical biomechanists should connect this MCP to automate their clinical planning. General massage therapists or those working without specific postural data will find it less useful. The deciding factor is whether you have structured trigger point maps and postural distortion data to process.

Neuromuscular Therapy Protocol Generator Tools

These tools convert raw clinical observations into precise, actionable treatment sequences. They handle the math and logic for pressure, stretching, and safety checks.

#	TOOL	DESCRIPTION
01	analyze_clinical_stability	This tool checks if your proposed protocol is safe and logical. It looks at the relationship between a patient's posture and their biomechanics to prevent unsafe movements.
02	calculate_pressure_regime	This tool determines how much pressure to apply. It calculates the specific type of pressure and the necessary hold duration for identified trigger points.
03	design_stretching_protocol	This tool builds corrective movement sequences. It creates a series of stretches to perform immediately after you finish manual pressure application.
04	generate_treatment_plan	This tool builds the full clinical roadmap. It produces a complete, ordered NMT treatment sequence based on the patient's specific clinical profile.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U Generate a treatment plan for a patient with anterior pelvic tilt and hip muscle spasticity.



The treatment sequence will prioritize stabilizing the pelvic region before addressing deep tissue tension in the hip flexors.

U Calculate the pressure regime for a trigger point in the trapezius with a severity of 8.



For a severity of 8, the system recommends a sustained compression technique with an ischemic hold duration of 45 seconds.

U Design a stretching protocol for someone with scapular winging.



The protocol includes serratus anterior activation and pectoral stretching to correct the scapular position.

Frequently Asked Questions

01 How do I use this MCP with my AI client?

You connect your client, such as Claude or Cursor, to Vinkius. Once connected, your agent can call the NMT tools directly.

02 What kind of data does the MCP need?

The MCP works best with clinical data like postural distortions, trigger point maps, and patient clinical profiles.

03 Can it help with specific trigger point durations?

Yes. The `calculate_pressure_regime` tool determines the specific type of pressure and how long to hold it based on the trigger point.

04 Does it ensure the treatment is safe?

The `analyze_clinical_stability` tool evaluates if the proposed protocol is safe and logical based on the patient's biomechanics.

05 Is this for manual therapy only?

The tools are specifically designed for Neuromuscular Therapy (NMT) professionals to handle pressure, stretching, and sequencing.

06 How do I generate a full treatment plan?

You can use the `generate_treatment_plan` tool by providing the patient's postural distortions, biomechanical dysfunctions, and a trigger point map.

07 Can I check if a protocol is safe?

Yes, the `analyze_clinical_stability` tool evaluates the relationship between posture and biomechanics to ensure the sequence is safe.

08 How are stretching protocols determined?

The `design_stretching_protocol` tool creates corrective stretches specifically targeting the muscles identified in the patient's biomechanical data.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

`https://edge.vinkius.com/[TOKEN]/mcp`

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"neuromuscular-therapy-protocol-generator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

-  Ask ChatGPT 
-  Ask Claude 
-  Ask Perplexity 
-  Ask Gemini 
-  Ask Grok 

READY TO CONNECT

Neuromuscular Therapy Protocol Generator is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

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Server ID	01a0baed-96fe-71a9-8a64-10ed9e05aa26
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

LICENSE & USAGE

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