MCP SERVER | NO CODE | CLOUD HOSTED

Harvard ClinicalTrials MCP

Find structured data on global medical research.

Harvard ClinicalTrials lets you search and pull data from ClinicalTrials.gov, the massive database tracking global clinical studies. You can filter results by disease, drug, location, or study phase to pinpoint evidence for research, treatment decisions, or competitive analysis.

A+ Quality Score 98.33/100

clinical-trials | medical-research | drug-development | public-health | data-retrieval | disease-tracking

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vinkius.com/mcp/harvard-clinicaltrials

SCAN TO VIEW

The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

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.

Harvard ClinicalTrials MCP

16 tools available
Cloud-hosted on Vinkius

This MCP connects your AI agent directly to ClinicalTrials.gov API v2, giving you access to one of the world's largest databases of registered clinical studies. Instead of wading through general academic literature, you pull structured data about real-world drug development and research efforts.

You can track specific medical conditions, like diabetes or rare diseases, across thousands of trials globally. Need to know if a new treatment is being tested by a major organization? You can search by sponsor (like NIH or Pfizer) or filter only for FDA-regulated device studies. The tool lets you pull detailed study records—including eligibility criteria and outcome data from completed phases—and even map out the timeline of a specific investigation. When integrated into Vinkius, your AI client treats this vast dataset like an indexed resource, turning complex filtering tasks into simple prompts.

Core Capabilities

01 — Identify active study enrollment

Find trials that are currently accepting new participants.

02 — Filter by disease or drug

Narrow searches down to specific medical conditions or treatments, like immunotherapy or cystic fibrosis care.

03 — Track development stages

Limit results to a particular phase of research (Phase 1 through Phase 4).

04 — Get detailed trial records

Pull comprehensive information about a single study, including its sponsor and locations.

05 — Search for medical devices

Isolate studies focusing on implants, diagnostic tools, or surgical technology.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/harvard-clinicaltrials** — connect your AI agent in three steps.

01 You tell your agent exactly what you're looking for—for instance, 'Phase 3 trials for hypertension near Boston.'

02 The MCP translates that request into structured API calls, cross-referencing criteria like location, phase, and condition.

03 Your agent receives a filtered list of results containing key details, which it then presents to you in plain language.

The bottom line is, you get immediate access to highly specific, globally registered clinical data without manually querying the federal database.

Built For

This MCP is built for anyone who needs evidence-based data beyond published papers. If your job involves tracking medical progress, identifying research gaps, or analyzing competitor pipelines in pharmaceuticals, you need this.

Academic Medical Researcher

You use it to perform systematic reviews, gathering structured outcome data and comparing eligibility criteria across multiple studies for a literature review.

Pharmaceutical Analyst

You track competitors by filtering searches based on sponsoring organizations or specific interventions to map out the current drug development pipeline.

Clinical Decision Support Physician

You check for evidence-based treatments by finding completed studies that match a patient's diagnosis and location, helping guide treatment recommendations.

What Changes When You Connect

01 Pinpoint exactly where drug development stands by using `search_by_phase` to filter results between Phase 1 and Phase 4, avoiding irrelevant or preliminary studies.

02 Stop guessing who's doing the work. Use `search_by_sponsor` to track specific organizations like Novartis or Roche, allowing you to map out a competitor’s entire research pipeline in one go.

03 For patient care, use `search_by_condition` and combine it with `search_by_location` to find active trials for diseases like Alzheimer's near a specific zip code. This is far more targeted than reading general literature.

04 Get the full picture of a single investigation by using `get_study`, which pulls title, status, conditions, and interventions all in one place, giving you immediate context on the trial’s scope.

05 The ability to search for medical devices separately with `search_device_trials` lets you focus only on hardware or implant studies, keeping your analysis clean and highly specialized.

Real-World Applications

Evaluating a new drug’s viability

A pharma analyst needs to see if any competitors are testing similar compounds. They ask their agent to combine `search_by_sponsor` (for known rivals) with `search_by_intervention` (for the specific compound). The system returns all relevant trials, providing a clear view of the competitive landscape.

Assisting an eligible patient

A physician wants to find local options. They ask their agent to use `search_by_pediatric` and combine it with `search_by_location`. The result pinpoints available, child-specific trials in the patient's county.

Completing a medical literature review

A researcher needs to synthesize evidence. They start by using `search_studies` for a broad overview, then refine it by combining `search_by_condition` (e.g., 'cystic fibrosis') and `search_completed` to ensure they only analyze final results.

Checking on the status of an old study

A clinician is curious about a trial from five years ago. They use `get_study_timeline` on the NCT ID to see if it was ever updated or completed, giving them confidence in the data's currency.

Patterns to Avoid

Searching too broadly

✗ AVOID

Asking your agent simply to 'find trials for cancer.' This returns tens of thousands of results—most irrelevant, overwhelming, and impossible to analyze manually.

✓ INSTEAD

You must narrow the search using multiple filters. Start with `search_by_condition` (cancer), then add a second filter like `search_by_phase` (Phase 3) and combine it with `search_by_sponsor` (NIH) for a manageable, highly targeted result set.

Confusing study status

✗ AVOID

Assuming that because a trial was listed years ago, it's still running. You might pull outdated data on eligibility or outcomes.

✓ INSTEAD

Always check the current status by using `search_recruiting` if you want active studies. If you need final data points, use `search_completed` first.

Ignoring device trials

✗ AVOID

Only searching for drugs and ignoring new technologies. You might miss out on breakthrough diagnostics or implants.

✓ INSTEAD

If your scope includes hardware or technology, always run a search using `search_device_trials` to ensure you're catching the full spectrum of medical innovation.

The Right Fit

Use this MCP if your core need is structured data from registered clinical trials. You must be analyzing specific drugs, diseases, or devices that have gone through formal testing phases (Phase 1-4). If you're writing a general review of medical history or need to find scientific papers discussing theory, don't use this; go with a general academic literature search tool instead. Don't use it if you are only

interested in non-clinical research, like basic animal studies that haven't been registered as human trials. If your goal is competitive intelligence regarding drug pipelines, combine `search_by_sponsor` with `search_by_intervention`. However, if you simply need general health information for a patient (e.g., 'what are the symptoms of diabetes?'), this MCP isn't designed for that; use a reliable medical encyclopedia instead.

The endless click-through process of tracking clinical data is exhausting.

Today, if you want to know what trials exist for, say, rare neurodegenerative diseases in the Northeast, you have to jump between multiple government portals. You start on one site for condition filters, then switch to another to check location limits, and finally copy-paste names into a third tool just to see which sponsors are involved. It takes hours of clicking through tabs and manually cross-referencing data points.

With this MCP, your agent handles the entire pipeline in a single prompt. You ask for 'rare disease trials for X condition near Y location.' The system immediately runs multiple checks—condition filtering, geographic mapping, and status checks—and delivers a clean, organized summary. You get answers, not links to ten different forms.

Getting Structured Evidence with Harvard ClinicalTrials MCP

The manual process of checking if a study is still relevant means manually verifying the dates and status. You spend time figuring out if the trial was 'completed' or just paused, wasting valuable research time on dead ends.

Now, your agent can use tools like `get_study_timeline` to give you the exact progress history of any study instantly. It cuts through the ambiguity. You get reliable status data and outcome reports when they are ready.

Harvard ClinicalTrials: 17 Tools for Research

These tools let you systematically pull structured data about clinical studies, from filtering by rare diseases to retrieving specific outcome results.

#	TOOL	DESCRIPTION
01	`get_api_version`	Checks the data source version and when the information was last updated to confirm its currency.
02	`get_study`	Retrieves all details for a specific trial using its official NCT identifier.
03	`get_study_results`	Pulls the primary outcome data, useful primarily for studies that have finished Phase 2 or higher.
04	`get_study_timeline`	Maps out key dates and progress points to understand how far along a study is in its development cycle.
05	`search_by_condition`	Finds trials that specifically target a named disease, like cancer or depression.
06	`search_by_intervention`	Searches for studies involving a specific drug, therapy, or treatment type.
07	`search_by_location`	Narrows the search results to trials accessible in a particular city or country.
08	`search_by_phase`	Filters results by the drug development stage, such as Phase 1 (safety) or Phase 3 (definitive testing).
09	`search_by_sponsor`	Limits the search to trials backed by a specific organization like Pfizer or NIH.
10	`search_completed`	Retrieves only studies that have finished, increasing the chance of finding published outcomes data.
11	`search_device_trials`	Finds research focused on medical equipment, implants, or digital health tools.
12	`search_fda_regulated`	Filters results to include only studies that adhere to strict U.S. Food and Drug Administration standards.
13	`search_pediatric`	Focuses the search on trials designed for children or adolescents.
14	`search_rare_diseases`	Identifies research efforts dedicated to uncommon conditions, such as cystic fibrosis.

#	TOOL	DESCRIPTION
15	search_recruiting	Finds studies that are currently enrolling participants and accepting applications.
16	search_studies	Performs a broad search across the entire database for basic study metadata.

See It in Action

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

U Find recruiting Phase 3 trials for breast cancer immunotherapy

I've found Phase 3 clinical trials for breast cancer immunotherapy that are currently recruiting participants, including studies testing checkpoint inhibitors and combination therapies.

U Search for Alzheimer's disease trials sponsored by NIH in Boston

I've found NIH-sponsored Alzheimer's disease trials in Boston, including studies on amyloid-targeting therapies and cognitive interventions at major research hospitals.

U Find pediatric clinical trials for cystic fibrosis

I've searched for pediatric cystic fibrosis trials, including CFTR modulator studies and gene therapy trials enrolling children and adolescents.

Frequently Asked Questions

01 **How do I find trials for a specific disease using Harvard ClinicalTrials MCP?**

You use the `search_by_condition` tool. This lets you input major diseases, like 'breast cancer' or 'hypertension,' to pull all relevant studies registered across the globe.

02 **Can I find out if a drug is undergoing testing in my area using Harvard ClinicalTrials MCP?**

Yes. Combine `search_by_condition` with `search_by_location`. This combination narrows down studies to both the disease and your specific geographic region.

03 **What if I only want to see trials that are finished? Should I use search_completed?**

Using `search_completed` is the most direct way. It filters out all active or planned studies, giving you a list more likely to contain published outcome data from the past.

04 **How do I check which company sponsors a certain type of trial using Harvard ClinicalTrials MCP?**

Use `search_by_sponsor`. You can input an organization name, like 'Pfizer,' to see every study they are currently overseeing or have completed.

05 **Does the Harvard ClinicalTrials MCP include data for medical implants and devices?**

Yes. If you're interested in hardware—like surgical tools or diagnostics—use `search_device_trials` to filter out drug-based studies entirely.

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 `"harvard-clinicaltrials": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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

Harvard ClinicalTrials 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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