MCP SERVER | NO CODE | CLOUD HOSTED

CMS.gov Data MCP for AI Agents

Query US Provider and Hospital Records from Public Health Databases

CMS.gov Data connects your AI agent directly to the Centers for Medicare & Medicaid Services' open platform. You can query millions of records covering US healthcare providers, hospital quality ratings across 50 states, and long-term care facilities. It also lets you browse massive public datasets on everything from prescription drug usage to total healthcare spending.

F Quality Score 3.6/100

public-health | medicaid | provider-data | open-data | healthcare-compliance | data-query

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vinkius.com/mcp/cmsgov-data

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.

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.

CMS.gov Data MCP

8 tools available
Cloud-hosted on Vinkius

This MCP connects your agent to the official Centers for Medicare & Medicaid Services (CMS) data platform. Forget navigating government portals or piecing together information from multiple sources. With this single connection, your AI client gains direct access to a vast, structured database of US healthcare records.

You can use it to find specific doctors by specialty and location, check hospital quality ratings state-by-state, or look up skilled nursing facilities in an area of interest. Beyond individual searches, the platform lets you browse hundreds of public datasets—things like Medicare spending trends or utilization rates for specific drugs. If your job involves analyzing US healthcare data, this is where you start. We built Vinkius to make sure all these critical public health sources are available through one catalog, so your agent can get started immediately.

Core Capabilities

01 — Find Doctors by Location or Specialty

Search the 2.4 million+ Medicare database for providers using names, specialties (like Cardiology), or geographic areas.

02 — Check Hospital Quality Ratings

Retrieve overall quality star ratings and details on emergency services for hospitals across any US state.

03 — Look Up Care Facilities

Search databases for both skilled nursing homes and long-term care facilities, including their quality scores.

04 — Analyze Public Health Datasets

Browse the catalog of CMS open datasets to retrieve metadata on healthcare spending, Medicare utilization, or drug data.

05 — Get Detailed Provider Profiles

Use a specific 10-digit NPI number to pull comprehensive details for an individual doctor's practice and specialties.

One Click on Vinkius — From Prompt to Execution

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

01 Connect your AI client to the CMS.gov Data MCP via Vinkius.

02 Tell your agent exactly what you need—for example, 'Find all internal medicine doctors in Texas with a 4-star rated hospital near them.'

03 The agent executes multiple queries across provider searches, hospital lookups, and dataset filtering to give you a single, synthesized answer.

The bottom line is that your AI client handles the complex, multi-source data pulling so you just get the final report.

Built For

This MCP is essential for anyone who needs reliable, structured US healthcare data. It's built for researchers tracking public health trends or journalists needing instant provider stats, saving them massive amounts of manual database work.

Healthcare Researcher

Uses the MCP to pull enrollment metrics and hospital quality scores across multiple states without visiting any government research portal.

Journalist / Data Analyst

Quickly pulls Medicare provider statistics for an article or report, verifying data points instantly instead of waiting days for official reports.

Caregiver / Patient Advocate

Searches specific areas to compare hospital ratings and find providers who match a required specialty and location.

What Changes When You Connect

01 Find specific providers: Use `search_doctors` or `get_doctor_by_npi` to pull complete profiles on doctors, including their NPI number and practice address.

02 Assess facility quality: Run `search_hospitals` or use `get_hospital_ratings` to compare hospital star ratings across different states quickly.

03 Research broad trends: Use `list_datasets` to see metadata for hundreds of CMS datasets covering Medicare spending, without needing a specific query upfront.

04 Target specialists: The `search_providers_by_specialty` tool lets you filter down millions of records instantly by medical field (e.g., Dermatology).

05 Find long-term care options: You can use `search_nursing_homes` to locate skilled nursing facilities and assess their quality ratings in a given area.

Real-World Applications

Verifying Coverage for an Article

A journalist needs quick stats on the number of active cardiologists in Florida. They ask their agent to use `search_doctors` and get a precise count, instantly updating their article with verifiable, current data.

Comparing Local Medical Options

A caregiver wants to move parents to a new state. The agent uses `get_hospital_ratings` for the top 5 hospitals and then runs `search_nursing_homes` nearby, providing a comparison table of quality scores.

Analyzing Spending Trends

A policy professional needs to know how Medicare drug spending changed last year. They use `list_datasets`, find the relevant dataset ID, and then run `get_dataset_metadata` for a comprehensive overview of the data.

Checking Provider Credentials

A user gets a referral but needs to confirm the doctor's credentials. They provide the NPI number, and the agent uses `get_doctor_by_npi` to return the full name, specialties, and practice address.

Patterns to Avoid

Trying to guess provider data

✗ AVOID

Asking your agent 'What are the best doctors for my condition in Chicago?' without specifying a specialty or using official identifiers.

✓ INSTEAD

Instead, use `search_providers_by_specialty` first (e.g., 'Orthopedic Surgery') and then narrow that result set down by location to get accurate results.

Manually checking hospital records

✗ AVOID

Going through multiple websites, one for hospital ratings and another for drug utilization data, leading to mismatched information.

✓ INSTEAD

Use this MCP. Query the `get_hospital_ratings` tool for facility quality, and then use `list_datasets` to find drug usage metrics all in one conversation.

Using old or incomplete IDs

✗ AVOID

Providing an outdated NPI number or a dataset ID that has been retired by CMS.

✓ INSTEAD

Always start with `list_datasets` to ensure you have the most current dataset identifiers, and use `get_doctor_by_npi` only when you are certain of the 10-digit NPI.

The Right Fit

Use this MCP if your task requires pulling structured data from official US government sources on healthcare—specifically provider lists, hospital metrics, or large public datasets. It excels at deep data querying and comparison across multiple categories of care.

Don't use it if you just need general medical advice (talk to a doctor), or if the information is highly personalized and not publicly available. If your goal is simply to draft an email about healthcare in general, this MCP won't help. For simple web searches on hours, stick to Google. However, if that search needs verified data points—like 'What are the star ratings for hospitals in Austin?'—then use `search_hospitals` or `get_hospital_ratings`. This tool is about verifiable facts and structured records, not general information.

CMS.gov Data MCP: Finding Accurate Provider Information by Specialty

Right now, finding a specific type of doctor means clicking through state directories, then cross-referencing specialty boards, and finally hoping the information is current. It's slow, painful copy-pasting that often leads to outdated or incomplete records.

With this MCP, you ask your agent for help—for example, 'List top pediatricians in Dallas.' The tool automatically runs `search_providers_by_specialty` and filters by location, returning a list with NPI numbers and practice addresses instantly. You get the verified data without leaving your chat window.

CMS.gov Data MCP: Analyzing Hospital Quality Metrics in Real Time

Before, comparing hospital quality meant downloading massive PDF reports and manually checking star ratings for specific services like emergency care availability. This process was a huge time sink, making comparison difficult.

Now, you simply ask your agent to compare facilities using `get_hospital_ratings`. It pulls the official 1-5 star rating data and service types directly into a clean summary table. You immediately know which facility meets your criteria.

8 Tools in the CMS.gov Data MCP for US Health Records Analysis

Use these tools to search millions of records across doctors, hospitals, care facilities, and official government datasets.

#	TOOL	DESCRIPTION
01	`get_dataset_metadata`	Retrieves titles, descriptions, and dates for specific CMS open datasets using their ID.
02	`search_doctors`	Searches the 2.4 million+ Medicare database for providers by name, specialty, or location.
03	`search_hospitals`	Finds hospitals by name or city and reports their quality ratings (1-5 stars) and type of care offered.
04	`search_providers_by_specialty`	Targets specific medical specialties, returning matching providers with their NPI number and practice location.
05	`get_doctor_by_npi`	Pulls detailed professional information for a single doctor using their unique 10-digit NPI number.
06	`get_hospital_ratings`	Retrieves hospital quality ratings, allowing you to filter results by US state code or view national top performers.
07	`list_datasets`	Lists all available CMS datasets, giving identifiers and descriptions for topics like drug usage or spending.
08	`search_nursing_homes`	Locates long-term care facilities and skilled nursing homes by name or area, along with their quality ratings.

See It in Action

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

U List all top-rated hospitals in California that offer critical access care.

California Hospital Quality Report

Based on CMS data, here are the top 5 rated Critical Access Hospitals (CAH) in CA:

Hospital Name	Overall Rating	Type	Emergency Services
St. Jude's Medical Center	★★★★★	CAH	Yes
Coastal Health Clinic	★★★★☆	CAH	Yes
Pioneer Care Facility	★★★★☆	CAH	No

Note: Ratings reflect patient experience and safety measures.

U I need to find a dermatologist in New York City, preferably one near a hospital with a 4-star rating.

Dermatology Provider Search Results (NYC)

We found 12 highly rated providers. Here are the top three matching your criteria:

- **Dr. Anya Sharma**: NPI: 9876543210. Specialty: Dermatology. Location: Midtown, NY.
- **Dr. Ben Carter**: NPI: 1234567890. Specialty: Dermatology. Location: Upper West Side, NY (near Star Rated Hospital).
- **Dr. Chen Li**: NPI: 2345678901. Specialty: Dermatology. Location: Brooklyn, NY.

Would you like detailed info for any of these?

U Show me the metadata for datasets related to Medicare spending and utilization.

CMS Open Data Catalog Search

I found 3 key datasets relevant to your request:

1. **Dataset ID:** `medicare_utilization_2024`
* **Title:** Annual Utilization Rates by Service.
* **Description:** Tracks how Medicare uses services across states and years.
* **Last Modified:** 2024-05-15
2. **Dataset ID:** `cms_spending_trends`
* **Title:** Healthcare Spending by Category.
* **Description:** Detailed metrics on spending related to pharmaceuticals and care facilities.
* **Last Modified:** 2023-11-01

Frequently Asked Questions

01 **How can I use CMS.gov Data MCP to find a doctor by specialty in a specific area?**

You can search for doctors using the `search_providers_by_specialty` tool and then refine that list with location parameters. This quickly narrows down millions of records so you only see relevant, local providers.

02 **Does CMS.gov Data MCP help me compare hospital quality across different states?**

Yes. You can use the `get_hospital_ratings` tool to pull official star ratings and service availability for any US state you specify, making direct comparisons easy.

03 **Is CMS.gov Data MCP reliable for research purposes?**

Absolutely. Since this data comes directly from the Centers for Medicare & Medicaid Services, it's considered a primary source used by government researchers and journalists alike.

04 **What if I only have an NPI number? Can CMS.gov Data MCP still help?**

If you have a provider's 10-digit NPI, the `get_doctor_by_npi` tool gives you their full profile instantly, including specialties and practice details.

05 **How do I find out what kind of healthcare data is available in general?**

Use the `list_datasets` tool. It shows you titles and descriptions for hundreds of datasets covering topics like drug usage and spending, helping you figure out your research path.

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 `"cmsgov-data": { "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

CMS.gov Data 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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