

MCP SERVER

NO CODE

CLOUD HOSTED

# CDC Public Health MCP for AI Agents

Auditing official health topics and media resources from the CDC

The CDC Public Health MCP gives your AI agent access to official U.S. Centers for Disease Control and Prevention data. It lets you research complex health topics, find detailed media metadata, and generate personalized health recommendations without having to navigate multiple government websites.

**A+** Quality Score 100/100

public-health

cdc

medical-resources

health-recommendations

syndication

health-topics



# 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

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## 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

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## 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

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## 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](https://cloud.vinkius.com) — connect your AI agent in under 60 seconds.

# CDC Public Health / 美国疾控中心 MCP

8 tools available

Cloud-hosted on Vinkius

This connector connects your AI agent directly to the authoritative public health resources of the CDC. Instead of spending hours clicking through different government portals just to gather data for a report, you ask one question and get structured information back. Your agent handles complex jobs, like searching vast media libraries for articles or auditing comprehensive topic catalogs. This capability changes everything from academic research to running major public awareness campaigns by providing accurate results from a single source. By connecting this specialized dataset through Vinkius, your agent acts as an instant health data coordinator, pulling reliable information directly into your workflow.

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## Core Capabilities

### 01 — Search CDC media items by keyword

You can search the entire library for articles, infographics, and web resources using simple keywords.

### 03 — List the latest published health news

Get a list and details on the most recently published public health resources.

### 05 — Audit public health topic definitions

Access the complete catalog, including detailed metadata for every recognized health topic.

### 02 — Retrieve detailed content metadata

Fetch specific information about any given piece of health media from the CDC archive.

### 04 — Generate embed codes for content sharing

Create ready-to-use HTML code so you can share official CDC material directly on your own website or platform.

### 06 — Get personalized health guidelines

Receive evidence-based preventative health tips tailored to specific age and gender parameters.

# One Click on Vinkius — From Prompt to Execution

Available at [vinkius.com/mcp/cdc-public-health](https://vinkius.com/mcp/cdc-public-health) — connect your AI agent in three steps.

- 01 Subscribe to the CDC Public Health MCP in Vinkius.
- 02 Optionally, enter your HHS API Key into the connection settings for enhanced data access.
- 03 Ask your AI agent (via Claude, Cursor, etc.) to perform a specific task, like 'Search for flu resources' or 'Give me guidelines for 35-year-old women'.

The bottom line is that you talk naturally to your agent, and it handles the complex data retrieval from multiple CDC systems.

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## Built For

This MCP is crucial for public health researchers, content teams needing reliable sources, and developers building tools around government data. If your job requires official medical or epidemiological facts, this saves days of manual cross-referencing.

### Public Health Researcher

You use the MCP to automate gathering comprehensive health metadata and resources for academic papers or white papers.

### Content Manager (Healthcare)

You rely on this tool to coordinate official content syndication, grabbing embed codes so you can publish CDC material directly onto your client's website.

### Epidemiology Specialist

You leverage the topic catalog and search functions to audit public health topics and track evolving guidelines in real time.

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## What Changes When You Connect

- 01 Content syndication is simple. Use `get_syndication_html` to pull embed codes, letting you share officially vetted content on your site without manual effort.

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- 02** Stop guessing what's available. The `list_health_topics` tool gives you a full catalog of all health topics, ensuring you cover every required guideline.
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- 03** Never miss breaking news. You can use `get_recent_health_media` to pull the absolute latest articles and updates immediately into your project.
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- 04** Get targeted advice instantly. By passing age and gender parameters for personalized recommendations, you move beyond general guidelines.
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- 05** Research depth is unmatched. The `search_health_media` function allows you to query massive archives using just a few keywords.
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## Real-World Applications

### Building an educational resource hub

A university professor needs current, official articles on 'Influenza' for a class module. They ask their agent to search the CDC library, and it uses `search_health_media` to pull relevant metadata from multiple sources instantly.

### Creating a localized health guide

A medical clinic needs to create content specific to local demographics. The agent uses the recommendation tools, passing in age and gender parameters to generate accurate, evidence-based tips.

### Launching a public awareness campaign

A non-profit group needs to embed official guidelines for 'Vaccinations' on their new website. They use the agent, which calls `get_syndication_html`, and gets the working code snippet ready for the developer.

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# Patterns to Avoid

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## Manually cross-referencing data

### X AVOID

A user tries to find a topic's definition by searching Google, then clicks through several different CDC pages, copying definitions and links into a spreadsheet.

### ✓ INSTEAD

Instead of clicking around, ask your agent to use ``get_topic_metadata`` or ``list_health_topics``. This pulls the official definition directly into your chat window.

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## Using general search for specific guidelines

### X AVOID

A user searches 'Flu symptoms' on a standard search engine, getting a mix of outdated articles and non-official blogs.

### ✓ INSTEAD

Use ``search_health_media`` to limit the results only to authoritative CDC content. This keeps your data clean and official.

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## Assuming all content is embeddable

### X AVOID

A developer finds a great article but spends an hour trying to figure out how to put it on the site, failing because they don't know the correct code.

### ✓ INSTEAD

Use ``get_syndication_html``. This tool handles the coding part for you, giving you the ready-to-use embed snippet.

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## The Right Fit

Use this MCP if your work hinges on authoritative, structured public health data. If you are building a resource that needs to be accurate, official, and backed by recognized medical bodies (like CDC), this is the tool for you. Don't use it just because you need *any* health information; you need *official* health information. Conversely, don't rely on it if your goal is purely creative or speculative writing. If you are building a general chatbot that needs to chat about health but doesn't need official citations, you might be better off with a standard document retrieval tool instead of trying to force the structured data from `get_topic_metadata` into unstructured conversation.

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## CDC Public Health MCP for AI Agents: Overcoming Manual Government Portal Auditing

Right now, gathering comprehensive health information means navigating a maze of government websites. You open one tab for the main articles, another for topic definitions, and maybe a third to find out if you can embed the content anywhere. It's slow, painful copy-pasting that loses context every time.

With this MCP, your agent handles all that legwork automatically. Instead of manual clicks across multiple tabs, one prompt pulls together everything—from searching media items using `search_health_media` to auditing a topic definition with `get_topic_metadata`. You get the full picture without ever leaving your chat window.

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## CDC Public Health MCP for AI Agents: Streamlining Content Syndication

If you're a content manager, you know the workflow: find great content, then spend time figuring out how to make it look good on your site. You search for resources and end up with links that are hard for developers to implement.

This MCP eliminates that friction. After finding perfect material using `get_media_details`, you simply ask for the embed code. The agent runs `get_syndication_html` and hands you a clean, ready-to-use snippet. It's instant publishing power.

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# CDC Public Health / 美国疾控中心: 8 Tools for Media & Topic Search

Use these tools to search the entire archive of CDC media items, list all available topics, and retrieve specific metadata instantly.

#	TOOL	DESCRIPTION
01	<code>get_media_details</code>	Retrieves specific, detailed information about a particular piece of CDC media content.
02	<code>get_recent_health_media</code>	Pulls the latest available health resources and articles published by the CDC.
03	<code>get_syndication_html</code>	Generates embed code, allowing you to share official media content on external websites.
04	<code>get_topic_metadata</code>	Retrieves full details and definitions for a specific public health topic area.
05	<code>list_health_topics</code>	Provides the complete, current list of all defined public health topics available from the CDC.
06	<code>list_supported_languages</code>	Lists every language that the CDC resources support for global access.
07	<code>search_health_media</code>	Searches the entire vast library of CDC media items using any keyword you provide.
08	<code>search_hhs_resources</code>	Performs a broader search across general HHS Digital Media assets, widening your data scope.

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# See It in Action

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

## U What are the latest guidelines on travel health notices?



### Travel Health Notices (THN)

- **Destination:** Caribbean Islands
- **Update Date:** 2024-11-05
- **Key Concern:** Dengue fever risk is elevated in several regions.
- **Action Needed:** Travelers must ensure they have up-to-date vaccinations for Typhoid and Hepatitis A. Detailed guidance is available on the official site.

[Link to Full THN]

Need more details on other destinations? Just ask!

## U Find me resources about seasonal flu.



### CDC Flu Resources Found:

- **Article:** Key Facts About Seasonal Flu (ID: 88210 )
- **Type:** Infographic / Article
- **Summary:** Covers prevention, symptoms, and recommended vaccinations.
- **Latest Update:** 2024-10-01

Would you like the full metadata for this article or the embed code to share it on our site?

## U What are preventative tips for a 65-year-old male?



Based on official guidelines for men aged 65+, here are key recommended preventive measures:

- **Vaccinations:** Annual Flu Shot and Pneumococcal vaccine boosters.
- **Screenings:** Blood pressure checks (annual) and Colonoscopy screening.
- **Lifestyle:** Maintain a diet rich in fiber and aim for at least 150 minutes of moderate exercise weekly.

Check the detailed guide for more information on each topic.

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## Frequently Asked Questions

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### 01 How can I use CDC Public Health MCP to audit health topics?

You can instantly access a complete, structured catalog of every recognized public health topic. This is great for ensuring your content covers all necessary guidelines and metadata points.

### 02 Does the CDC Public Health MCP help me find recent articles?

Yes. You can use this tool to pull a list of the latest published resources, giving you real-time insight into what the CDC is actively reporting on right now.

### 03 I need to embed official health content—can the CDC Public Health MCP do that?

Absolutely. The MCP generates ready-to-use HTML embed codes, letting you share professional and authoritative CDC material directly onto your own website without needing a developer.

### 04 What if I need health guidelines for specific people (like age or gender)?

The tool provides personalized recommendations. You simply tell it the age and gender, and it returns evidence-based preventative tips based on official CDC guidance.

### 05 Is this MCP better than just using Google to search for health info?

Yes. This connector pulls structured data directly from authoritative sources, eliminating guesswork. You get metadata and guidelines—not just links—so your information is guaranteed to be accurate.

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# Go Live in 60 Seconds

Get your connection token from [cloud.vinkius.com](https://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 `"cdc-public-health": { "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

# CDC Public Health / 美国疾控中心 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](https://cloud.vinkius.com) →

[vinkius.com](https://vinkius.com) · [support@vinkius.com](mailto:support@vinkius.com)

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