

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

Diabetes Risk Assessment MCP

Get clinical-grade risk scores and prevention plans via your AI client.

Diabetes Risk Assessment MCP uses clinical scoring models to evaluate the probability of Type 2 Diabetes. Your AI client can calculate numerical risk scores, identify lifestyle factors that need attention, and build custom health recommendations based on specific user profiles.

A+ Quality Score 100/100

diabetes

health-risk

wellness

clinical-scoring

prevention



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.

Diabetes Risk Assessment MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to turn raw health data into actionable clinical insights. Instead of manually calculating risk, you let your AI client handle the math using established scoring models. You provide the user's age, BMI, waist circumference, and glucose levels, and the MCP returns a specific risk category. It doesn't just stop at a number; it looks at modifiable lifestyle factors to show where changes can actually make a difference. If you're working with patient data or personal health tracking, this tool helps you move from a simple score to a structured prevention strategy. It's a direct way to bridge the gap between raw metrics and a clear path forward for health management.

Core Capabilities

01 — Risk Scoring

Your agent uses clinical models to turn health metrics into a numerical score.

02 — Factor Analysis

The AI identifies which specific lifestyle habits are driving a user's risk level.

03 — Plan Generation

Your client builds custom health recommendations based on the calculated risk and modifiable factors.

04 — Threshold Lookup

The AI checks the exact score boundaries used to categorize risk levels.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/diabetes-risk-assessment — connect your AI agent in three steps.

01 Connect the MCP to your client like Claude or Cursor via Vinkius.

02 Provide your health metrics to your AI agent.

03 The agent calls the risk calculation tools.

04 Receive a numerical score, risk category, and a tailored prevention plan.

Connecting this MCP to your AI client gives you immediate access to clinical scoring tools.

Built For

This MCP is built for professionals handling health data or individuals managing personal wellness through AI agents.

Health Coaches

They hand off client metrics to the AI to generate structured prevention advice.

Wellness Researchers

They use the scoring tools to categorize data sets based on clinical models.

Personal Health Managers

They use the MCP to track their own risk trends and lifestyle adjustments.

What Changes When You Connect

01 Converts raw health metrics into standardized clinical risk categories.

02 Pinpoints specific lifestyle changes needed to lower risk scores.

03 Automates the creation of personalized health prevention strategies.

04 Provides clear score boundaries for accurate risk interpretation.

Real-World Applications

Client Risk Profiling

A health coach inputs client data to quickly determine their diabetes risk category.

Personalized Wellness Planning

An individual uses their AI agent to build a custom plan based on their BMI and activity levels.

Lifestyle Intervention

Users identify modifiable factors like sedentary behavior to focus their health efforts.

Data Categorization

Researchers use the threshold tool to understand how scores map to risk levels.

4 Tools Available

#	TOOL	DESCRIPTION
01	analyze_modifiable_factors	This tool identifies specific lifestyle areas in a user's profile that can be improved to lower risk.
02	calculate_risk_score	This tool computes a numerical risk score and assigns a qualitative risk category.
03	generate_prevention_plan	This tool creates tailored health recommendations based on a user's specific risk profile and modifiable factors.
04	get_risk_thresholds	This tool retrieves the specific score boundaries used to define different risk categories.

See It in Action

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

U What is my diabetes risk score if I am 45 years old, have a BMI of 28, a waist circumference of 102cm, am sedentary, have no family history, a blood pressure of 130, and glucose values of [105, 110]?



Your calculated risk score is 12, which places you in the Moderate risk category.

U Identify my modifiable risk factors for a 50-year-old with a BMI of 32 and a waist circumference of 110cm who is sedentary.



The modifiable factors identified are high BMI and low activity level.

U Give me a prevention plan for a high risk score of 18 with factors like high BMI and sedentary lifestyle.



To reduce your risk, focus on increasing daily physical activity and implementing a nutritional plan to lower your BMI.

Frequently Asked Questions

01 How does this MCP calculate diabetes risk?

It uses clinical scoring models to process metrics like BMI, age, and glucose levels into a numerical score and category.

02 Which AI clients can I use with this MCP?

You can use this with any MCP-compatible client, including Claude, Cursor, and Windsurf.

03 Can the AI suggest lifestyle changes?

Yes, the tool analyzes modifiable factors and generates tailored prevention plans based on those factors.

04 What kind of data is needed for a risk score?

The tool typically requires data such as age, BMI, waist circumference, activity levels, and glucose values.

05 Is this a manual calculation tool?

No, the MCP automates the calculation and categorization through its built-in tools.

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>"diabetes-risk-assessment": { "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

Diabetes Risk Assessment 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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Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

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