

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

Elderly Fall Risk Assessment MCP

Identify and mitigate fall hazards for older patients.

Elderly Fall Risk Assessment MCP gives your AI client the ability to analyze clinical and environmental data to prevent falls in older adults. It evaluates medication impact, mobility levels, and home safety to help you prioritize patient care and create actionable safety plans.

A+ Quality Score 100/100

geriatrics

fall-prevention

health-assessment

mobility

safety-audit



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.

Elderly Fall Risk Assessment MCP

4 tools available

Cloud-hosted on Vinkius

You can use this MCP to turn raw patient data into a clear picture of fall risk. Instead of manually cross-referencing medication lists with mobility scores, you let your AI agent handle the heavy lifting. It looks at how a patient's current drugs might affect their balance and checks their home environment for physical hazards like poor lighting or tripping risks. You get specific, data-driven guidance on physical activity and safety interventions. This makes it easier to spot high-risk individuals before an accident happens and provides a structured way to recommend changes to their daily routine or living space.

Core Capabilities

01 — Risk Profiling

Your agent calculates a total risk score by combining clinical and environmental inputs.

02 — Medication Analysis

The AI checks how specific drug combinations or loads increase the likelihood of a fall.

03 — Environmental Audits

Your agent identifies specific physical hazards in a patient's home from provided safety scores.

04 — Activity Planning

The AI generates tailored physical activity guidelines based on current mobility levels.

One Click on Vinkius — From Prompt to Execution

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

- 01 Connect the MCP to Claude, Cursor, or Windsurf via Vinkius.
- 02 Provide patient data like mobility scores, medication lists, or home hazard ratings.
- 03 The AI agent calls the specific tool needed for the analysis.
- 04 Receive a detailed risk profile or specific safety recommendations.

Connect the MCP to your AI client and start feeding it patient data to get instant risk assessments.

Built For

This MCP is built for healthcare professionals managing geriatric care and home health services.

Clinicians

Use the tool to quickly assess patient risk during consultations.

Caregivers

Apply the tool to identify hazards in a patient's living environment.

Geriatric Specialists

Leverage medication and mobility data to refine treatment plans.

What Changes When You Connect

- 01 Identifies specific modifiable risk factors like medication load and lighting.
- 02 Provides tailored exercise advice based on individual mobility scores.

03 Turns environmental hazard scores into actionable safety tasks.

04 Automates the calculation of complex risk profiles.

Real-World Applications

Patient Intake

Run a full risk profile immediately after a new geriatric patient is admitted or seen.

Medication Reviews

Analyze how a patient's prescription list impacts their physical stability.

Home Safety Checks

Evaluate a patient's living situation to find trip hazards and lighting issues.

Physical Therapy Planning

Get specific exercise recommendations for patients with varying mobility levels.

4 Tools Available

#	TOOL	DESCRIPTION
01	analyze_medication_impact	This tool determines how a patient's current medication load contributes to their overall fall risk profile.
02	get_mobility_guidelines	Your agent uses this to provide specific physical activity and exercise recommendations based on a user's current mobility level.
03	calculate_fall_risk	This tool generates a complete, comprehensive risk profile for an individual based on all provided data points.
04	evaluate_home_safety	This tool analyzes environmental factors to pinpoint specific trip and fall hazards within a living space.

See It in Action

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

U Assess the fall risk for an 82-year-old with a mobility score of 4, taking 6 medications, having low balance confidence, 1 previous fall, impaired vision, and a home hazard score of 3.



The calculated fall risk score is 78, which falls into the High risk category. Modifiable factors include improving vision and reducing medication load. Priority interventions are a vision check and a home safety audit.

U What are some exercise recommendations for someone with a mobility score of 3?



For a mobility score of 3, we recommend low-intensity balance and strength exercises, such as seated leg lifts and assisted standing.

U Check my home safety: hazard score is 5, I have grab bars, and the lighting is poor.



The home safety rating is Cautionary. The primary hazard is poor lighting. Urgent fixes required: improve lighting levels immediately to prevent falls.

Frequently Asked Questions

01 What AI clients can I use with this MCP?

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

02 How does the tool calculate fall risk?

It uses a combination of mobility scores, medication load, vision status, and home safety data to generate a comprehensive profile.

03 Can this MCP help with exercise planning?

Yes, the `get_mobility_guidelines` tool provides specific physical activity recommendations based on the user's current mobility.

04 Does it identify specific home hazards?

Yes, the `evaluate_home_safety` tool analyzes environmental factors to find specific trip and fall hazards.

05 How is the medication risk assessed?

The `analyze_medication_impact` tool determines how the current medication load contributes to the patient's overall risk.

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>"elderly-fall-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

Elderly Fall 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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