MCP SERVER | NO CODE | CLOUD HOSTED

Medication Schedule Generator MCP

Perfect Dosing. Zero Safety Risks.

The Medication Schedule Generator creates precise, day-by-day dosing timelines for any regimen. It checks schedules to spot dangerous dose overlaps and tracks total drug consumption volume so you never miss a safety interval or an accurate count.

A+ Quality Score 100/100

medication | safety | scheduling | healthcare-automation | precision-dosing

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vinkius.com/mcp/medication-schedule-generator

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.

Medication Schedule Generator MCP

3 tools available
Cloud-hosted on Vinkius

Managing complex medication regimens is tough. You need to make sure doses are spaced correctly over weeks, not just days. This MCP handles that precision scheduling for you. You can build complete, chronological lists of doses based on any required timing and duration using the `create_medication_schedule` tool. But it's more than just a calendar; it includes safety checks. The system scans existing schedules to identify 'Dosing Deviations'—those times when two medications are scheduled too close together relative to their safe minimum interval. Plus, you can aggregate all the data, tracking total dose counts and cumulative volume used across the entire regimen with `calculate_consumption_metrics`. It's a powerful safety net that lets your agent manage clinical timing details. Vinkius hosts this MCP so your AI client connects once and gets access to critical healthcare automation tools like this one.

Core Capabilities

01 — Generate Dose Timelines

Creates full, multi-day schedules for medications based on required intervals.

02 — Audit Safety Intervals

Scans existing dose lists to flag dangerous timing overlaps or deviations from minimum safe spacing.

03 — Track Drug Consumption

Calculates the total number of doses and the cumulative volume used over a defined period.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/medication-schedule-generator** — connect your AI agent in three steps.

01 You input the medication details, starting date, and required dosing interval into your AI client.

02 The MCP processes this information to generate the full, chronological schedule for the specified duration.

03 Your agent can then audit that generated list or track total usage metrics against clinical guidelines.

The bottom line is you get an automatically validated and complete record of drug administration timing and usage volume.

Built For

This MCP is built for the Nurse Practitioner who needs to verify complex patient schedules quickly, or the Care Coordinator tasked with managing multi-drug regimens across a facility. If you routinely deal with drug interactions or dosing compliance, this tool saves hours of manual chart review.

Nurse Practitioner

They use it to rapidly create and audit complex medication schedules for patients being discharged, ensuring no dangerous timing overlaps exist.

Care Coordinator

They rely on this MCP to track total drug volume and dose counts when managing long-term care patients with multiple prescriptions.

Clinical Pharmacist

They use it to validate proposed dosing intervals and safety checks before a regimen is finalized in the patient chart.

What Changes When You Connect

01 Stop guessing about timing. Use the `create_medication_schedule` tool to instantly generate full, chronological dose lists for any drug and duration, giving you perfect structure every time.

02 Catch dangerous scheduling errors before they happen. The MCP's safety audit feature spots 'Dosing Deviations,' flagging overlaps that are too close together relative to safe intervals.

03 Track usage across the board. You can run `calculate_consumption_metrics` on any schedule to get a clear count of total doses and cumulative medication volume used.

04 Save time reviewing charts. Instead of manually checking dose timings for weeks, let your agent instantly audit complex regimens using the safety check tool.

05 Maintain compliance. By generating precise schedules, you ensure that every patient receives their medicine at the correct interval, reducing potential errors.

Real-World Applications

Patient Discharge Planning

A Nurse Practitioner needs to send a patient home with a complex regimen of five drugs. She asks her agent to use `create_medication_schedule` for 14 days. The MCP generates the full, safe timeline so she can confidently write the discharge orders without manual timing checks.

Billing and Resource Tracking

A Care Coordinator needs to report total drug expenditure for a patient over three months. She uses `calculate_consumption_metrics` against all generated schedules to get the exact cumulative volume needed for billing.

Reviewing Existing Charts

A pharmacist reviews a patient's historical medication log and suspects a safety issue. She runs `audit_schedule_safety` on the existing doses, and the MCP immediately flags that two drugs were administered too closely together.

Patterns to Avoid

Treating it like a simple calendar tool

✗ AVOID

Manually inputting 30 days of doses into a spreadsheet and hoping you don't miss a safety rule or double up on volumes.

✓ INSTEAD

Use the MCP to first generate the list with `create_medication_schedule`, then immediately run `audit_schedule_safety` to confirm every interval is safe.

Forgetting volume tracking

✗ AVOID

Creating a schedule and only confirming the dates, but having no way of knowing if the patient will exceed their drug limit for the quarter.

✓ INSTEAD

After setting up the doses, run `calculate_consumption_metrics` to get a concrete number on total dose counts and cumulative volume.

Ignoring safety checks

✗ AVOID

Trusting that because a schedule looks complete, it must be safe, which can lead to serious dosing errors.

✓ INSTEAD

Never skip the audit. Run `audit_schedule_safety` on any regimen before finalizing it to catch all potential dose overlaps.

The Right Fit

Use this MCP if your primary need is precise temporal management of drug doses—specifically, when you must prove that timing and interval safety are met across a multi-day or multi-week cycle. This tool excels at generating timelines (`create_medication_schedule`), verifying those timelines for dangerous overlaps (`audit_schedule_safety`), and quantifying the usage in total volume/doses (`calculate_consumption_metrics`). Don't use this if you just need to look up a single drug interaction—use a dedicated reference database tool instead. Also, don't rely on it to diagnose *why* a patient needs medication; it only manages the scheduling and safety of drugs already prescribed.

Managing Complex Regimens is a Nightmare

Today, managing a single patient with five or six different prescriptions means toggling between multiple charts. You're cross-referencing start dates against required intervals, manually calculating if the next dose falls too close to the previous one. Then you have to tally up the total volume used across months of care just to bill correctly. It's clicking through tabs and copy-pasting data until your eyes blur.

With this MCP, your agent handles all that heavy lifting. You tell it what needs dosing, when it starts, and how often. The system builds the entire chronological list for you and instantly checks every single interval against safety guidelines. What you get is a clinically validated schedule, ready to use.

Getting Precision Scheduling with create_medication_schedule

The manual process requires calculating doses for each day and tracking that count across multiple medications. You're prone to human error when you have to keep track of total volume used over a long period.

Now, the `create_medication_schedule` tool handles the math and timing. It delivers a complete, accurate list every time, so you focus on patient care instead of counting milligrams.

Medication Schedule Generator: 3 Tools

These tools allow you to generate complete drug dosing schedules, verify timing safety across multiple drugs, and calculate total usage metrics.

#	TOOL	DESCRIPTION
01	`calculate_consumption_metrics`	Determines the total number of doses and the cumulative volume used for any given medication schedule.
02	`create_medication_schedule`	Generates a complete, detailed medication list covering multiple days based on specified intervals.
03	`audit_schedule_safety`	Scans an existing schedule to detect and report any dosing deviations that fall below minimum safe time gaps.

See It in Action

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

U Generate a schedule for Ibuprofen (200mg) every 6 hours starting from tomorrow at 8:00 AM for the next 3 days.

The schedule has been generated successfully. Your first dose is scheduled for tomorrow at 08:00, with subsequent doses every 6 hours (14:00, 20:00, etc.) through the end of the 3-day period.

U Check if this schedule is safe: doses at 10:00 AM and 11:30 AM, with a minimum safety interval of 2 hours.

Safety violation detected. The interval between the 10:00 AM and 11:30 AM doses is only 1.5 hours, which is below your required minimum of 2 hours.

U How much total medication will I use if I take 500mg every 8 hours for 5 days?

For a 5-day regimen with doses every 8 hours, you will receive a total of 15 doses, resulting in a cumulative consumption of 7500mg.

Frequently Asked Questions

01 **How does the Medication Schedule Generator handle safety violations?**

The MCP uses `audit_schedule_safety` to scan a schedule and specifically identifies 'Dosing Deviations.' It tells you exactly which doses are too close together relative to your defined minimum safe interval.

02 **Can I use the Medication Schedule Generator for multiple drugs?**

Yes. You can generate complex regimens involving various medications and ensure they all adhere to their required timings and safety intervals across a multi-day span.

03 **Does `calculate_consumption_metrics` just count doses or total volume too?**

`calculate_consumption_metrics` does both. It gives you the precise total number of individual doses, plus the cumulative medication volume used across the whole regimen.

04 **Is this MCP useful for acute dosing changes?**

This MCP is best for established, multi-day regimens. For immediate or single-dose checks, you should reference a dedicated drug interaction checker tool instead.

05 **How do I generate a new medication schedule?**

Use the `create_medication_schedule` tool by providing the medication name, dose amount, interval in hours, an ISO 8601 start time, and the total number of days you want to cover.

06 **How can I check if my schedule is safe?**

You can use the `audit_schedule_safety` tool. Provide your list of dose entries and a minimum safe interval threshold in hours. The tool will identify any violations where doses occur too close together.

07 **Can I calculate the total amount of medication used?**

Yes, use the `calculate_consumption_metrics` tool. By providing your schedule entries, it will return the total number of doses administered and the cumulative volume of medication used.

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 `"medication-schedule-generator": { "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

Medication Schedule Generator 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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