MCP SERVER | NO CODE | CLOUD HOSTED

Injection Day Alignment MCP for AI Agents

Create accurate medication schedules and manage injection day shifts.

Injection Day Alignment MCP. It handles the complex math for recurring medication schedules. Use it to generate a full list of injection dates, calculate exactly how many days to wait to hit a preferred weekday, and verify that a provided list of dates strictly follows your required dosing interval. It's a precise way to manage healthcare logistics and ensure your medication plan stays on track without manual errors.

A+ Quality Score 100/100

medication | injection | scheduling | healthcare-tech | date-calculation

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vinkius.com/mcp/injection-day-alignment

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.

Injection Day Alignment MCP

3 tools available
Cloud-hosted on Vinkius

Injection Day Alignment handles the math for recurring medication schedules. Managing a dose schedule shouldn't feel like a math homework assignment. If you need to keep your injections on a specific day of the week while maintaining a strict dosing interval, the math can get tricky fast. This MCP takes over that work. You can tell your AI client to build out a full year of injection dates or figure out exactly how many days you need to wait to get your next dose onto a Friday. It's about making sure your health plan stays on track without you having to open a spreadsheet or a calendar app to do the manual counting. When you find this in the Vinkius catalog, you're getting a way to turn messy instructions into a solid, verified plan. It ensures that every dose lands exactly where it should, so you can focus on your health instead of the calendar. You don't have to worry about whether you're skipping a day or doubling up because the logic is handled by the tool. It takes a pile of requirements and turns them into a clear timeline that you can follow with confidence.

Core Capabilities

01 — Generate full injection calendars

Create a complete list of upcoming injection dates based on your specific frequency.

02 — Calculate wait times for weekday alignment

Find out exactly how many days to wait to land your next dose on a preferred day of the week.

03 — Verify if a list of dates is correct

Check a list of dates against your required dosing interval to catch errors.

04 — Align schedules to preferred days

Adjust your medication schedule so it lands on a specific weekday without breaking the dosing rule.

05 — Check dosing interval compliance

Ensure that a series of dates follows the strict medical rules provided by a healthcare provider.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/injection-day-alignment** — connect your AI agent in three steps.

01 Provide your starting date and injection frequency.

02 Specify a preferred weekday or a number of doses.

03 Get a verified list of dates or a specific delay count.

The bottom line is that it automates the calendar math for recurring medical doses.

Built For

This is for anyone who needs to keep a strict medication schedule without doing the mental math. It's built for patients managing chronic conditions, caregivers tracking multiple meds, and healthcare workers who need to verify dosing logs quickly.

Chronic Care Patient

They use this to build out a year of injection dates so they never have to guess when their next dose is due.

Home Health Caregiver

They use this to figure out how many days to wait to move a medication day to a weekend while keeping the interval correct.

Pharmacy Coordinator

They use this to verify that a patient's self-reported list of injection dates actually matches the required frequency.

Clinical Research Assistant

They use this to generate standardized dosing timelines for study participants based on specific starting dates.

What Changes When You Connect

01 Stop guessing about dates. Use get_injection_schedule to see your whole year of doses at once.

02 Easily move your dose day. Use calculate_shift_offset to find the exact gap needed for a specific weekday.

03 Prevent dosing errors. verify_schedule_compliance confirms your dates match your doctor's requirements.

04 Save time on manual planning. Let your agent build the calendar in seconds.

05 Improve adherence. Knowing exactly when the next dose is due helps you stay on track.

Real-World Applications

Moving a dose to a specific day

A patient wants to move their Tuesday dose to Friday. They ask their agent to calculate the wait time using calculate_shift_offset.

Creating a long-term plan

A caregiver needs a 6-month plan for a relative. They ask the agent to generate the dates using get_injection_schedule.

Verifying a patient log

A clinic worker wants to verify a patient's self-reported log. They provide the dates and use verify_schedule_compliance to check for errors.

Pharmacy shift calculation

A pharmacy tech needs to calculate a shift for a new patient to align with a weekend. They use calculate_shift_offset to get the exact day.

Patterns to Avoid

Manual math in head

✗ AVOID

Trying to figure out the next dose date by counting days on your fingers.

✓ INSTEAD

Use calculate_shift_offset to get the exact number of days needed to hit your target weekday.

Hardcoding dates in a list

✗ AVOID

Typing out a list of dates manually and hoping the math stays correct.

✓ INSTEAD

Use get_injection_schedule to generate a full list based on your starting point and frequency.

Guessing dose intervals

✗ AVOID

Checking a list of dates and assuming they are correct because they look close.

✓ INSTEAD

Use verify_schedule_compliance to check a list of dates against your required frequency rule.

The Right Fit

Use this if you need precise calendar math for medical injections and need to ensure you aren't skipping doses or doubling up when moving your dose day. It is perfect for anyone who wants a verified schedule that accounts for specific weekdays. Don't use it if you just need to store patient records, send prescriptions, or manage inventory. For those tasks, you should use a dedicated EHR or pharmacy management system instead.

Injection Day Alignment: Accurate Medication Scheduling for Patients

Tracking injections usually means a messy paper log or a phone calendar that's hard to update. If your dose changes or you want to move it to a specific day, you have to do the math manually to

Injection Day Alignment handles the logic for you. Just tell your AI client the rules, and it gives you a perfect list of dates. You get a clear plan you can actually trust.

make sure you don't skip a dose or double up. It's easy to make a mistake when you're tired or busy.

Injection Day Alignment: Automated Dosing Interval Verification

Manual verification of dose logs is a headache for coordinators. You have to look at every date and count the days between them to make sure they align with the prescription. It's a slow, error-prone process that eats up your afternoon.

With this MCP, you just hand over the list. The AI checks every single date against your required frequency. You get a simple pass or fail instantly.

Injection Day Alignment: 3 Healthcare Tools

Generate injection calendars, calculate weekday shifts, and verify dosing compliance with these healthcare tools.

#	TOOL	DESCRIPTION
01	`calculate_shift_offset`	Determines exactly how many days of delay are required to move a medication day to a preferred weekday.
02	`get_injection_schedule`	Calculates a full list of injection dates based on a starting point and a frequency, with optional weekday realignment.
03	`verify_schedule_compliance`	Checks a provided list of dates against a specific frequency rule.

See It in Action

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

U I need to start my injections on May 1st, every 10 days. Can you make a list for the next 3 months?

I've calculated your injection schedule based on a 10-day interval starting May 1st. Here are your dates for the next 3 months:

MONTH	DATES
May	2024-05-01, 2024-05-11, 2024-05-21, 2024-05-31
June	2024-06-10, 2024-06-20, 2024-06-30
July	2024-07-10, 2024-07-20, 2024-07-30

U My current injection day is Wednesday, but I want to move it to Saturday. How many days do I need to wait?

To move your injection day from Wednesday to the next Saturday while keeping your schedule aligned, you will need to wait **3 days**.

U Check if these dates are correct for a 14-day interval: [2024-06-01, 2024-06-15, 2024-06-29].

I've checked those dates against a 14-day frequency rule.

✅ **Status: Compliant**

The dates provided are consistent with a 14-day dosing interval.

Frequently Asked Questions

01 **How does Injection Day Alignment help with my medication?**

It handles all the calendar math for your recurring doses. You can generate a full list of dates or figure out exactly how many days to wait to hit a specific day of the week.

02 **Can Injection Day Alignment move my dose to a specific day?**

Yes. It calculates the exact number of days you need to wait to reach a preferred weekday without breaking your required dosing interval.

03 **How does Injection Day Alignment verify my schedule?**

You can provide a list of dates, and the tool will check them against your specific dosing frequency to ensure they are correct and consistent.

04 **Who should use Injection Day Alignment?**

It's great for patients on long-term medications, caregivers managing health schedules for others, and healthcare workers who need to verify dosing logs.

05 **Can I use Injection Day Alignment for any medication?**

Yes, it works for any medication that requires a recurring injection schedule based on a specific frequency and starting date.

06 **Does Injection Day Alignment work with my current calendar?**

It works with your AI client. You can ask your agent to generate the dates, and then you can easily copy those dates into your preferred calendar app.

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 `"injection-day-alignment": { "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

Injection Day Alignment 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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LICENSE & USAGE

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