MCP SERVER | NO CODE | CLOUD HOSTED

Pet Medication Dose Calculator MCP for AI Agents

Accurate Dosage Calculations Based on Veterinary Standards

Pet Medication Dose Calculator lets you estimate drug dosages for animals using their body weight and established veterinary standards. Instead of manually calculating complex milligrams per kilogram doses, your AI agent handles the math instantly. You can browse supported drugs, check standard dosage ranges, and generate a precise dose calculation right in your workflow.

A+ Quality Score 100/100

pets | medication | dosage | veterinary-medicine | calculator

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vinkius.com/mcp/pet-medication-dose-calculator

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.

Pet Medication Dose Calculator MCP

3 tools available
Cloud-hosted on Vinkius

Need to calculate a medication dose for a pet? This MCP provides an advisory tool that estimates drug dosages based on the animal's weight and common veterinary guidelines. Simply provide the pet's weight in kilograms and select the needed medication; the system determines the therapeutic dosage range in milligrams. The calculator first lets you use the `list_available_medications` tool to browse all supported drugs, then checks established mg/kg thresholds using `get_dosage_range`, and finally performs the full calculation via `calculate_medication_dose`. Remember, these calculations rely on hardcoded veterinary standards and must always be verified by a licensed veterinarian. To manage this entire process from your preferred client, you just connect to Vinkius and gain access to all pet care MCPs.

Core Capabilities

01 — List supported medications

You can retrieve a comprehensive list of drugs that the calculator supports.

02 — Check standard dosage ranges

The MCP verifies the recommended minimum and maximum mg/kg dose for any given drug.

03 — Calculate estimated pet doses

You provide the weight and medication, and the tool returns a precise, weighted dose range in milligrams.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/pet-medication-dose-calculator** — connect your AI agent in three steps.

01 First, tell your agent which drug you need. The system uses `list_available_medications` to confirm it's supported.

02 Next, if required, the tool checks the established guidelines using `get_dosage_range` to verify the correct mg/kg threshold for that specific medication.

03 Finally, run the calculation by providing the pet's weight and drug name; this executes `calculate_medication_dose`, giving you the final dose range.

The bottom line is, your AI agent handles the multi-step process of checking standards and performing the math in one sequence.

Built For

Veterinary technicians and pet care assistants who spend their mornings cross-referencing drug dosages across multiple charts. If you're tired of juggling manual calculations or switching between resource sheets to determine a safe dose, this MCP helps.

Vet Tech Assistant

Determining the correct dosage for common prescriptions quickly and accurately when working in triage or surgery.

Veterinary Practice Owner

Ensuring that staff have immediate access to accurate, standards-based dose calculations without needing to consult a physical drug manual.

What Changes When You Connect

01 Avoid manual calculation errors. When you run `calculate_medication_dose`, the system handles complex mg/kg math, giving you a reliable dose range immediately.

02 Save time browsing drugs. Use `list_available_medications` to see every drug supported by the calculator at a glance, eliminating guesswork.

03 Verify standards instantly. Before calculating, run `get_dosage_range` to confirm the correct therapeutic threshold for any given medication, ensuring compliance with veterinary guidelines.

04 Focus on care, not math. By automating dose calculations, you keep your attention on the pet and not on cross-referencing drug formularies.

05 Streamlined workflow. You can chain these tools together within a single query to get from listing drugs to final dosage in seconds.

Real-World Applications

Checking for an unfamiliar prescription

A vet tech receives a referral for a new drug and isn't sure of the standard dosing. They ask their agent, which first uses `list_available_medications` to confirm support, then runs `get_dosage_range` on the specific drug to get the safe mg/kg thresholds.

Calculating a dose for an overweight pet

The owner provides their agent with a weight and medication. The tool automatically uses `calculate_medication_dose`, ensuring the resulting estimate is accurately scaled to the pet's actual body weight.

Quickly comparing drug options

A practitioner needs to know which of two available drugs works best. They ask their agent, and it uses `list_available_medications` to show all choices, followed by checking the dosage range for each one.

Patterns to Avoid

Relying on general drug knowledge

✗ AVOID

Guessing a dose based on what seems 'right' or remembering an old protocol without confirming current weight-based standards.

✓ INSTEAD

Always use the MCP. First, run `list_available_medications` to confirm support, then execute `get_dosage_range` before running `calculate_medication_dose`.

Using a single-drug calculator

✗ AVOID

Being forced to manually calculate doses when the pet needs one of several medications administered at different rates.

✓ INSTEAD

This MCP lets you manage multiple drug checks. Just query the available list and then run `calculate_medication_dose` for each medication sequentially.

Ignoring weight variance

✗ AVOID

Calculating a dose based on an average or estimated body weight, which can be unsafe for very small or large animals.

✓ INSTEAD

Always input the pet's exact weight in kilograms. The `calculate_medication_dose` tool is built specifically to scale drug estimates based on real-time body weight data.

The Right Fit

Use this MCP if your workflow requires calculating medication doses for pets using precise, hardcoded veterinary standards (mg/kg). You need a system that can list supported drugs and verify ranges before executing the final math. Don't use it if you are managing non-pharmaceutical treatments—this is purely for drug dosing. Also, don't rely on this MCP for emergency triage decisions; always defer to a human veterinarian. If your only goal is simply listing drugs without checking dosage parameters, that might be overkill; the full suite of tools here provides complete validation and calculation.

Pet Medication Dose Calculator: Simplifying Veterinary Drug Dosing Protocols

In a busy clinic setting, determining the correct dose for a pet is tedious. Staff spend time cross-referencing physical manuals or jumping between digital charts to find both the medication name and the corresponding mg/kg threshold. This process increases the chance of calculation errors and slows down patient intake.

With this MCP, your agent handles the whole sequence. You can first check the supported drugs using `list_available_medications`, then confirm the proper dose range with `get_dosage_range`. The result is a quick, reliable estimate provided by running the final `calculate_medication_dose` tool.

Pet Medication Dose Calculator: Improving Pet Care Workflow Efficiency

The manual steps that disappear are the repetitive checks. You no longer have to manually calculate dosage for different weights or check if a drug is supported before starting. The system handles the cross-referencing of weight, medication, and established standards.

It's about confidence in the data. This MCP gives your team an instant, auditable dose calculation based on rigorous veterinary guidelines, letting you focus entirely on patient care.

Pet Medication Dose Calculator: 3 Tools for Veterinary Drug Dosages

Use these tools to list available medications, verify safe dosage ranges (mg/kg), and calculate precise medication doses based on body weight.

#	TOOL	DESCRIPTION
01	`get_dosage_range`	Retrieves the specific recommended dosage range for any listed medication in mg/kg.
02	`list_available_medications`	Generates a list of all drugs that this calculator is currently programmed to handle.
03	`calculate_medication_dose`	Performs the final dose calculation by taking the pet's weight and medication name, returning an estimated dose range.

See It in Action

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

U What drugs can I calculate doses for right now?

Available Medications

The calculator supports the following drugs:
- Metamizole
- Omeprazole
- Metronidazole

U What is the recommended range for Omeprazole?

Omeprazole Dosage Range

Based on current veterinary standards, the recommended dosage range is:
- **Minimum:** 0.5 mg/kg
- **Maximum:** 1.0 mg/kg

U Calculate the dose for a 5kg cat using Metronidazole.

Calculated Dose Estimate

For a pet weighing 5 kg, the estimated dosage of Metronidazole falls between **12.5 mg** and **25.0 mg**. *Always consult a licensed veterinarian.*

Frequently Asked Questions

01 **How does the Pet Medication Dose Calculator determine the correct dosage for my pet?**

It calculates doses based on your input weight in kilograms and established, hardcoded veterinary standards. This ensures the estimate is accurate and scaled specifically to the animal's body mass.

02 **Can this MCP help me check if a drug I need is supported?**

Yes. The calculator includes a function that lists every medication it supports, so you can quickly confirm if a drug is available for calculation before proceeding with the dose estimate.

03 **Is this tool safe to use in a real veterinary setting?**

It provides an advisory estimate based on current standards. However, because it's calculating medication doses, you must always have a licensed veterinarian review and approve the final dosage before administering any treatment.

04 **What kind of information does the calculator need from me?**

You only need two pieces of information: the pet’s weight in kilograms (kg) and the specific name of the medication you are interested in.

05 **Does this Pet Medication Dose Calculator handle different types of animals?**

It calculates based on general veterinary standards, requiring accurate input for the animal's body weight to ensure the dosage is correctly scaled regardless of species differences.

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 `"pet-medication-dose-calculator": { "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

Pet Medication Dose Calculator 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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