MCP SERVER | NO CODE | CLOUD HOSTED

Pet Anesthesia Risk Scorer MCP for AI Agents

Assessing Pre-Surgical ASA Classification and Overall Patient Safety

Pet Anesthesia Risk Scorer estimates a pet's ASA physical status classification, providing vets with an early warning system for surgical risk. It analyzes weight, body condition scores, and complex medical histories to classify patients from Class I (healthy) through Class V (moribund). This gives veterinary staff immediate data points needed before any anesthetic procedure.

A+ Quality Score 100/100

veterinary | anesthesia | asa-class | pet-health | risk-assessment

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JULY 2026
vinkius.com/mcp/pet-anesthesia-risk-scorer

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 Anesthesia Risk Scorer MCP

3 tools available
Cloud-hosted on Vinkius

Before a pet goes under for surgery, vets need to know if the anesthesia plan is safe. The Pet Anesthesia Risk Scorer provides that critical clinical decision support by estimating the ASA physical status classification. Your agent uses this MCP to assess patient risk levels—from Class I to Class V—by taking into account everything from age and weight to body condition score and existing medical issues. Instead of reviewing dozens of scattered charts, you get a single, aggregated assessment of overall surgical risk. This saves time and directly impacts the quality of care. By centralizing this complex data flow, it helps veterinarians make faster, safer decisions right in their workflow, all accessible via your AI client through Vinkius.

Core Capabilities

01 — Determine ASA Physical Status

Calculates the American Society of Anesthesiologists (ASA) physical status classification for a pet based on general health parameters.

02 — Analyze Body Condition Risks

Assesses potential airway and cardiovascular complications by analyzing the pet's current weight relative to its body condition score.

03 — Consolidate Medical Severity Tiers

Aggregates multiple pre-existing medical conditions into a simple, actionable impact tier for surgical planning.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/pet-anesthesia-risk-scorer** — connect your AI agent in three steps.

01 Feed the MCP your pet's baseline data: age, weight, body condition score, and a list of existing health issues.

02 The system first uses one tool to estimate the core ASA classification. Then, it runs two other tools; one evaluates physical risks using BCS/weight, and another groups all medical conditions into an impact tier.

03 Your agent compiles these three separate reports into a single summary, giving you a comprehensive risk profile for the vet team.

The bottom line is that it takes complex veterinary data points from multiple sources and outputs one clear risk grade, saving time during critical pre-op planning.

Built For

Veterinarians who manage high surgical volume or specialists dealing with geriatric/obese patients. If your clinic runs anesthesia protocols frequently, this MCP cuts down on manual chart review and improves decision consistency.

Veterinary General Practitioner

Uses the scoring tools to quickly assess patient readiness for routine surgeries, ensuring basic parameters like ASA class are met before scheduling.

Veterinary Anesthesiologist

Relies on the combined risk profile to adjust anesthetic dosages and protocols based on consolidated medical severity tiers and body condition analysis.

Vet Technician

Uses this MCP to gather initial patient data points, feeding them into your agent so the vet receives a pre-scored risk assessment immediately upon intake.

What Changes When You Connect

01 Pinpoint surgical risk immediately. The scoring process provides an estimated ASA class, moving beyond simple guesswork to a formalized, industry-standard assessment.

02 Reduce cognitive load on staff. Instead of manually reviewing multiple charts for age, weight, and history, the tools consolidate this into actionable data points.

03 Improve protocol adherence. Using `evaluate_body_condition_risk` ensures that airway and cardiovascular risks related to obesity or poor body mass are never missed before procedures begin.

04 Streamline preoperative planning. The ability to run through `summarize_medical_severity` means the team instantly knows if a pet's multiple conditions elevate overall surgical risk to 'Moderate' or 'Significant'.

05 Faster client communication. You can present owners with a clear, data-driven risk profile right away, setting realistic expectations for post-op care and recovery.

Real-World Applications

The Obese Patient Undergoing Surgery

A vet tech inputs data for an overweight dog scheduled for a minor surgery. The agent runs the risk scorer, which uses `evaluate_body_condition_risk` to flag increased respiratory danger and suggests pre-anesthetic protocols.

Geriatric Patient with Multiple Conditions

A patient arrives with documented renal failure and hypertension. The agent runs the scorer, which uses `summarize_medical_severity` to categorize these conditions, telling the vet that planning must account for significant organ impact.

Routine Check-up Before Planned Op

A 5-year-old cat needs routine spaying. The agent uses `calculate_asa_class` to get a quick, preliminary score (e.g., Class II), confirming the pet is stable and ready for simple general anesthesia.

Emergency Admission Assessment

A dog comes in critically ill with unknown history. The agent uses all three tools—ASA class, body condition risk, and medical severity summary—to give an immediate triage score, guiding the vet on whether surgery is even appropriate right now.

Patterns to Avoid

Ignoring BCS when assessing anesthesia

✗ AVOID

A user only checks the pet's age and weight but forgets to input the Body Condition Score, missing critical airway risk flags.

✓ INSTEAD

Always use `evaluate_body_condition_risk` alongside basic metrics. This tool specifically analyzes how weight interacts with BCS to flag dangerous respiratory risks that simple weight measurements miss.

Treating conditions separately

✗ AVOID

The vet reviews 'Renal Failure' in one tab and 'Hypertension' in another, leading to disjointed treatment plans.

✓ INSTEAD

Use `summarize_medical_severity` to aggregate these findings. It consolidates multiple issues into a single impact tier, ensuring the entire team views the pet's overall medical profile cohesively.

Skipping baseline scoring

✗ AVOID

Rushing straight into procedure planning without getting an initial ASA classification score.

✓ INSTEAD

Begin every assessment by running `calculate_asa_class`. This establishes the foundational physical status, which all subsequent risk evaluations depend on.

The Right Fit

Use this MCP if your primary pain point is inconsistent or slow pre-operative risk assessment in veterinary medicine. You need to move beyond subjective human judgment and establish a standardized ASA classification using the pet's age, weight, and BCS. It’s perfect when you have multiple data streams—like separate records for

cardiac history, renal function, and body measurements—and you need one unified score. Don't use it if your only goal is simple record keeping; that requires a basic document management tool. Also, don't rely on this to replace the vet's final judgment; it's a powerful guide, not a replacement for expertise. If you just need to check *one* variable (e.g., only BCS), use a dedicated calculation utility instead of running the full suite.

Pet Anesthesia Risk Scorer: Managing Surgical Safety with ASA Classification

Right now, assessing anesthesia risk is manual and scattered. Vets juggle charting pet weight on one screen, checking BCS in an intake form, cross-referencing a history of renal issues in another system, and then trying to synthesize all that information to determine the ASA class. It's prone to human error and takes serious time.

With this MCP, your agent pulls all those disparate data points into one place. You feed it the metrics, and you get an immediate, calculated score based on established veterinary standards. What you get is a single, reliable risk grade that instantly guides the next steps of care.

Pet Anesthesia Risk Scorer: Evaluating Body Condition for Safer Procedures

The hardest part about pre-op planning isn't just listing diseases; it's understanding how the pet's physical state—like obesity or poor muscle mass—actually affects its airways and cardiovascular system. Vets spend time correlating BCS with potential difficulty during intubation.

This MCP solves that by using `evaluate_body_condition_risk`. It doesn't just report a number; it analyzes how the pet's weight impacts airway safety, giving you concrete warnings about complications before they happen.

Pet Anesthesia Risk Scorer: 3 Tools for Veterinary ASA Scoring

Use these tools together to calculate a pet's overall anesthetic risk, determining everything from its core ASA class to potential body condition complications.

#	TOOL	DESCRIPTION
01	`calculate_asa_class`	Estimates the American Society of Anesthesiologists (ASA) physical status classification for a pet using its general health metrics.
02	`evaluate_body_condition_risk`	Analyzes potential airway and cardiovascular complications based on the pet's recorded weight and body condition score (BCS).
03	`summarize_medical_severity`	Aggregates a list of existing medical conditions into a simplified impact tier for better surgical planning.

See It in Action

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

U What is the ASA class for an 8-year-old Beagle weighing 15kg with a BCS of 6 and mild kidney issues?

ASA Classification Report
- **Estimated Class:** II (Mild systemic disease)
- **Assessment Details:** The patient shows stability but minor systemic compromise.
- **Recommendations:** Proceed with caution. Monitor renal function closely during the procedure.

U Evaluate anesthetic risk for a 22kg Golden Retriever, BCS of 9, and mild hypertension.

Anesthesia Risk Analysis: High Concern
- **Primary Risks:** Respiratory (due to high BCS/weight) and Cardiovascular.
- **Action Required:** Recommend pre-emptive bronchodilators. Intubation difficulty is significantly elevated. Consult a specialist for monitoring.

U Summarize the severity of [hip dysplasia, moderate heart murmur] in a 10kg cat?

Medical Severity Tier Summary
- **Tier:** Moderate
- **Impact Statement:** The combination of joint issues and cardiac compromise significantly impacts overall surgical planning. Pre-op workups must focus heavily on stabilizing the cardiovascular system.

Frequently Asked Questions

01 **How does Pet Anesthesia Risk Scorer help me decide if a pet is safe for surgery?**

It gives you a standardized ASA class and multiple risk scores that move beyond simple guesswork. The MCP assesses age, weight, body condition, and medical history to give you an objective picture of the patient's readiness.

02 **Is this Pet Anesthesia Risk Scorer only for big dogs?**

No, it works on all sizes. It evaluates risk using metrics like Body Condition Score (BCS) and weight relative to general health, making it useful for cats, small breeds, and large animals alike.

03 **What if my pet has multiple chronic conditions? Can the MCP handle that?**

Yes. The Pet Anesthesia Risk Scorer uses a tool to aggregate all listed medical issues (like kidney failure or heart murmurs) into one simplified impact tier, so you see the big picture immediately.

04 **Do I need to manually input every piece of data for the MCP?**

You provide the baseline information—the weight, BCS, and condition list. The AI agent then runs all the necessary calculations internally, giving you a single, compiled risk report without the manual crunching.

05 **Can this score replace my vet's final clinical judgment?**

No. This MCP is a powerful decision support tool designed to give your vet consistent, data-backed scores and warnings. It helps guide the process but never replaces professional expertise.

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-anesthesia-risk-scorer": { "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 Anesthesia Risk Scorer 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 →

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Pet Anesthesia Risk Scorer. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	July 2026
MCP Server	Pet Anesthesia Risk Scorer MCP
Server ID	`019f15d9-b512-73d9-a799-f04e45fdaafa`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/mcp/pet-anesthesia-risk-scorer.