MCP SERVER | NO CODE | CLOUD HOSTED

Apgar Score Calculator MCP for AI Agents

Standardized Neonatal Vitality Assessment and Scoring

Apgar Score Calculator lets clinical staff quickly assess newborn vitality. This MCP calculates standardized Apgar scores at 1 and 5 minutes by evaluating heart rate, breathing effort, muscle tone, reflex irritability, and skin color. It helps track the baby's condition over time to guide immediate clinical care decisions.

A+ Quality Score 100/100

apgar | neonatal | pediatrics | health-assessment | newborn-care

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/apgar-score-calculator

SCAN TO VIEW

The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

Apgar Score Calculator MCP

3 tools available
Cloud-hosted on Vinkius

When a newborn arrives, assessing their health status is critical. This MCP standardizes that assessment using the Apgar Scale. Instead of manually calculating scores based on five different parameters—heart rate, respiratory effort, muscle tone, reflex irritability, and skin color—your AI client handles the full calculation instantly. You input the observed clinical signs for a given time interval, and the tool returns a total score along with clinical guidance. It's designed to evaluate initial stability at 1 minute and again at 5 minutes. This capability allows your agent to not only calculate the scores but also compare them against each other, showing if the infant's condition is improving or declining. Vinkius hosts this MCP, making it available to any AI client you already use, so you don't have to switch tools just to get a standardized clinical assessment.

Core Capabilities

01 — Calculate initial Apgar scores

Determines the total vitality score for a newborn at a specific time interval.

02 — Compare multiple Apgar intervals

Analyzes and compares two different recorded scores to determine if the baby's condition is trending up, down, or remaining stable.

03 — Reference clinical parameters

Provides detailed definitions for each of the five Apgar parameters (like heart rate or skin color) and what specific score values mean clinically.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/apgar-score-calculator** — connect your AI agent in three steps.

01 First, your AI client gathers the necessary clinical observations: Heart Rate, Respiratory Effort, Muscle Tone, Reflex Irritability, and Skin Color for a given time.

02 Next, the MCP takes these five pieces of data and calculates two things: the total standardized score for that interval, and a recommended care category based on that score.

03 Finally, you can ask your agent to compare this new score against a previous one, getting immediate feedback on the infant's overall health trend.

The bottom line is your AI client takes complex clinical data inputs and outputs an easy-to-read, actionable vitality assessment for newborns.

Built For

Pediatric nurses, neonatologists, and medical students use this MCP. If you're tired of cross-referencing manual charts to determine a newborn's stability trend, this tool streamlines the vital assessment process.

Neonatal Nurse

Uses the MCP constantly during rounds to calculate Apgar scores at 1 and 5 minutes, ensuring accurate documentation of initial newborn health.

Pediatric Physician

Relies on this tool to compare score intervals quickly when evaluating complex cases or tracking the progress of stable infants.

Medical Student/Residency

Practices clinical assessment by asking their agent to interpret raw physiological data and provide standardized Apgar scores and definitions.

What Changes When You Connect

01 Get immediate, total scores: Use the core calculation function to instantly assess a baby's vitality at 1 minute or 5 minutes. This is faster than manual chart review.

02 Track trends efficiently: The ability to compare Apgar intervals helps you immediately tell if the infant's condition is improving, stable, or declining.

03 Understand every parameter: If you need clarification on what a score of '0' means for reflex irritability, the reference tool gives you the exact clinical definition. No guesswork needed.

04 Standardized care recommendations: The output provides clear clinical categories and recommendations based directly on the calculated scores, guiding immediate nursing action.

05 Reduces charting errors: By automating the calculation process, you minimize human error when documenting critical newborn assessment metrics.

Real-World Applications

Initial Assessment Documentation

A nurse enters raw data for a baby's heart rate (2), breathing effort (1), muscle tone (2), reflex irritability (1), and skin color (1) at the one-minute mark. The agent uses this MCP to compute the total Apgar score, instantly documenting the result and initial care recommendations.

Monitoring Status Change

The doctor asks their agent to compare the baby's first score (4 at 1 minute) against the second score (8 at 5 minutes). The MCP uses its comparison tool, informing the user that the condition is 'Improving,' which is crucial for subsequent treatment decisions.

Clarifying Clinical Definitions

A new student needs to know exactly what a score of '0' means for respiratory effort. They use the parameter reference tool, and it pulls up the precise clinical observation details needed for proper documentation.

Patterns to Avoid

Manual Score Calculation

✗ AVOID

Trying to calculate Apgar scores by manually checking five different boxes in a chart or spreadsheet, which is slow and prone to arithmetic mistakes.

✓ INSTEAD

Don't calculate it yourself. Use the core calculation function; feed your agent the raw data points, and let the MCP do the math for you.

Ignoring Trend Analysis

✗ AVOID

Only documenting the single score (e.g., 'The baby scored 6'), without considering how that number compares to previous assessments.

✓ INSTEAD

Always run a comparison tool after calculating a new score. This shows if the condition is stable or trending toward improvement/decline.

Confusing Parameters

✗ AVOID

Not knowing whether 'respiratory effort' refers to breathing sounds or actual lung function, leading to incorrect data input.

✓ INSTEAD

Use the parameter reference tool first. It provides explicit clinical definitions for every component so you feed your agent accurate inputs.

The Right Fit

Use this MCP if your workflow requires standardized, objective vitality scoring of newborns using the established Apgar criteria. This is essential when you need to calculate a score at specific time points or compare scores over several minutes. Don't use it if you are trying to diagnose unrelated conditions (like fever management) or if you only need general health advice without the standardized 0-2 scoring system; in those cases, a general medical knowledge MCP would be better suited.

Apgar Score Calculator: Standardizing Neonatal Assessment

Today, assessing newborn vitality involves gathering data across five distinct physiological parameters—heart rate, breathing effort, muscle tone, reflex irritability, and skin color. This process requires multiple manual checks against clinical charts, increasing the risk of misinterpretation or simple calculation errors.

With this MCP, your agent streamlines the entire assessment. You feed it the raw scores for all five parameters at a specific time point, and it calculates the total Apgar score instantly. You get a definitive number, along with immediate guidance on what that score means clinically.

Apgar Score Calculator: Tracking Newborn Health Trends

Manually tracking trends requires comparing the 1-minute score to the 5-minute score, and then potentially charting subsequent readings. This comparison is tedious, requiring multiple steps of calculation and visual chart analysis.

Now, your agent uses the MCP's dedicated trend tool. You just ask it to compare scores from two different times. It immediately tells you if the baby’s condition is improving or declining—a critical piece of information for follow-up care.

Apgar Score Calculator: 3 Tools for Neonatal Scoring

Use these specialized tools to calculate, compare, and reference all necessary data points for accurate newborn vitality assessments.

#	TOOL	DESCRIPTION
01	`compare_apgar_intervals`	Compares two recorded Apgar scores to determine the trend in a newborn's health status over time.
02	`get_parameter_reference`	Retrieves detailed clinical descriptions for specific Apgar parameters and their associated score values.
03	`compute_apgar_at_interval`	Calculates the full Apgar score, providing a standardized assessment of vitality at any specified time interval.

See It in Action

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

U Calculate the Apgar score for a baby with: heart rate 2, breathing 1, muscle tone 2, reflex 1, and skin color 1.

✅ **Calculated Apgar Score:** 7/10

Interval: 5 Minutes
Category: Stable

• **Clinical Recommendation:** Routine newborn care is advised. Monitor vital signs every hour.

*Parameters Breakdown:
• Heart Rate: 2 (Normal)
• Respiratory Effort: 1 (Needs monitoring)
• Muscle Tone: 2 (Good)
• Reflex Irritability: 1 (Acceptable)
• Skin Color: 2 (Optimal)

U The scores were 4 at 1 minute and 9 at 5 minutes. What does that mean for the baby?

Based on the comparison, your infant's condition is **Improving**.

This trend suggests a positive physiological recovery between the first assessment and five minutes post-birth. This rapid change is clinically significant and indicates successful adaptation to life outside the womb.

• **1 Min Score:** 4 (Mild concern)
• **5 Min Score:** 9 (Good/Excellent)

U What does a score of 0 mean for reflex irritability?

Parameter: Reflex Irritability
Score: 0

Clinical Meaning: No response detected when stimulated. This is the lowest possible score, indicating that the newborn shows no reflexes to external stimuli.

Note: A score of 2 indicates a brisk reflex (a strong positive sign).

Frequently Asked Questions

01 **How does the Apgar Score Calculator MCP help document initial scores?**

It calculates your standardized Apgar score at specific intervals like 1 minute and 5 minutes. You simply input the raw vital signs, and the tool provides an accurate total score instantly for charting.

02 **Can I use the Apgar Score Calculator to see if a baby's condition is getting better?**

Yes, you can compare scores across different time intervals. The MCP analyzes two or more readings and tells you if the trend is improving, declining, or staying stable.

03 **What kind of clinical details does this Apgar Score Calculator provide?**

It gives you detailed references for every single parameter—like heart rate or skin color. You can look up what specific score values mean clinically, ensuring your notes are accurate.

04 **Is the Apgar Score Calculator MCP reliable enough for medical charting?**

Because it uses standardized clinical protocols and calculates scores based on established parameters (heart rate, breathing effort, etc.), it provides a consistent and objective number for your records.

05 **Does the Apgar Score Calculator need me to manually interpret the results?**

No. It not only gives you the numerical score but also suggests a clinical category or recommendation based on established pediatric guidelines, helping guide immediate care.

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 `"apgar-score-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

Apgar Score 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Apgar Score Calculator. 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	June 2026
MCP Server	Apgar Score Calculator MCP
Server ID	`019ef33c-d2f8-7201-936b-4aefbe3342fa`
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/apgar-score-calculator.