

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Child Growth Percentile Calculator MCP

Get clinical-grade pediatric growth analysis through your AI client.

Child Growth Percentile Calculator MCP connects your agent to standardized WHO and CDC growth reference data. It handles the heavy lifting of calculating height, weight, and BMI percentiles, tracking growth velocity over time, and evaluating clinical status. It even supports prematurity adjustments to ensure accurate monitoring for infants.

A+ Quality Score 98.33/100

pediatrics

growth-charts

who-standards

cdc-standards

bmi-calculator



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.

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.

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.

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

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

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.

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.

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.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot 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.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

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.

Child Growth Percentile Calculator MCP

4 tools available

Cloud-hosted on Vinkius

You can now give your AI client the ability to perform precise pediatric growth assessments. Instead of manually checking charts, you use this MCP to pull percentile rankings and growth velocity directly from WHO and CDC standards. It handles the math for height, weight, and BMI, and it can even adjust for prematurity to keep infant monitoring accurate. You can use it to check if a child's measurements are biologically plausible or to determine if their growth falls within normal clinical ranges. It turns your agent into a specialized tool for pediatric data analysis without you needing to manage the underlying growth reference datasets.

Core Capabilities

01 — Percentile Calculation

Your agent uses this to find height, weight, and BMI rankings.

02 — Growth Velocity Tracking

The AI calculates the rate of change between two measurement points.

03 — Clinical Status Evaluation

Your agent determines if growth is within normal clinical ranges.

04 — Data Integrity Checks

The tool verifies that measurements are biologically realistic.

05 — Prematurity Adjustments

The MCP adjusts calculations for accurate infant monitoring.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/child-growth-percentile-calculator — connect your AI agent in three steps.

- 01 Connect your AI client to the MCP via Vinkius.
- 02 Provide the child's age, sex, and measurements to your agent.
- 03 The agent calls the necessary tool to process the data.
- 04 The agent returns the percentiles, velocity, or status to you.

You connect the MCP to your client and then provide patient data through natural language.

Built For

This MCP is built for professionals working with pediatric patient data who need fast, standardized growth analysis.

Pediatricians

They hand off raw patient measurements to the AI to get instant percentile and status reports.

Clinical Researchers

They use the tool to calculate growth velocity across study cohorts.

Health Informatics Specialists

They use the integrity tool to validate the quality of incoming patient data.

What Changes When You Connect

- 01 Uses standardized WHO and CDC reference data.
- 02 Automates the calculation of growth velocity.
- 03 Includes built-in checks for biological plausibility.

04 Supports prematurity adjustments for infants.

Real-World Applications

Routine Well-Child Visits

An agent calculates percentiles immediately after a clinician enters height and weight.

Infant Development Tracking

The MCP applies prematurity adjustments to ensure infant measurements are interpreted correctly.

Monitoring Growth Trends

The AI tracks velocity to see if a child's growth rate is slowing or accelerating.

Data Validation

The tool flags impossible measurements before they are entered into a clinical record.

4 Tools Available

#	TOOL	DESCRIPTION
01	get_growth_percentiles	This tool calculates current percentile rankings for a child's physical measurements like height and weight.
02	get_growth_status	Use this to evaluate if a child's growth falls within clinically normal ranges.
03	get_growth_velocity	This tool determines how quickly a child's measurements have changed between two specific time points.
04	validate_measurement_integrity	This tool checks if the physical measurements you provide are biologically plausible.

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 growth percentile for a 12-month-old male, 75cm tall and 9kg?



The 12-month-old male has a height percentile of 25th, a weight percentile of 15th, and a BMI percentile of 20th.

U Calculate the growth velocity for a girl who was 60cm at 6 months and 64cm at 9 months.



The height velocity is 1.33 cm per month.

U Is a child with a 90th percentile weight status considered high?



Yes, a percentile above the 85th percentile is classified as a high status.

Frequently Asked Questions

01 What standards does this MCP use for growth calculations?

The MCP uses both WHO and CDC growth reference standards.

02 Can this tool handle premature infants?

Yes, it supports prematurity adjustments to ensure accurate monitoring for infants.

03 How does the tool handle incorrect or impossible data?

The `validate_measurement_integrity` tool checks if measurements are biologically plausible.

04 What is growth velocity?

Growth velocity is the rate at which a child's measurements change between two specific time points.

05 Which AI clients can use this MCP?

Any MCP-compatible client like Claude, Cursor, Windsurf, or VS Code can use this MCP.

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 <code>"child-growth-percentile-calculator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → 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

Child Growth Percentile 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	<code>https://edge.vinkius.com/{token}/mcp</code>

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