



graphTM safety suite

/nucleusTM

The Safety Neural Network



/nucleus introduces an architectural inversion in pharmacovigilance

For decades, pharmacovigilance relied on a passive repository model served by human experts. The result? A linear scaling trap where more cases simply means more headcount.

/nucleus, the industry's first AI-native safety database, reverses this by shifting from experts servicing the data to an intelligent platform where computable logic serves the expert.

The **graph**[™] safety advantage

Traditional Safety Databases		graph [™] safety /nucleus
Passive Repository Data sits and waits.	✘	✔ Active Nervous System Data triggers logic instantly.
Black Box AI Opaque algorithms.	✘	✔ Transparent Intelligence Explainable, clinical logic.
Siloed Work Email chains and delays.	✘	✔ Collaborative Fabric AI and Humans collaborate.
Linear Scaling More cases = More headcount.	✘	✔ Algorithmic PV Scale volume without scaling costs.

/nucleus is not a passive database. It is an AI-native safety operating system designed for clarity, confidence, and continuous readiness.

The 9 Pillars of Algorithmic Pharmacovigilance in /nucleus



Intelligent Nervous System

ACTIVE INTELLIGENCE

Real-time intelligence, not batch jobs. /nucleus acts instantly.

Immediate risk insight



Collaborative Intelligence

UNIFIED WORKFLOW

A single workspace where human experts and AI agents collaborate.

Zero latency through swarming



Verify by Source™

TRUST ARCHITECTURE

Every AI insight is linked to its source, eliminating black box uncertainty.

Built-in trust. No hallucinations



Transparent Intelligence

EXPLAINABLE AI

Every inference includes a clear, human-readable rationale grounded in contextual logic.

Audit-Ready By Design



Auto Coding

CONTEXTUAL INTELLIGENCE

Context-aware AI predicts precise MedDRA codes

Code with Confidence



Networked Safety

KNOWLEDGE GRAPH

A safety neural network that connects real-world signals to molecules, patients, adverse events.

See the whole picture



Clinical Context Aware

DIGITAL EXPERT

Context-aware intelligence that prioritizes what matters and suppresses noise.

Smarter triage. Reduced alert fatigue



Universal Gateway

NATIVE COMPLIANCE

Built to support global submissions while maintaining a single source of scientific truth.

Global consistency with local precision



Persona-Based Productivity

UX-CENTRIC DESIGN

Adaptive experiences designed around the user.

Faster reviews. Deeper focus

A New Foundation for Patient Safety

At graph, we believe safety vigilance amplifies when human judgment and artificial intelligence work in concert. This philosophy underpins our platform and is expressed through a guiding formula:

$$ef = (h^i) \cdot (g^x)$$

Efficiency = Human ingenuity scaled by the exponential impact of graph^x

Explore the platform architecture, AI approach, and regulatory foundations at: www.graphsafety.ai

Contact us: info@graphsafety.ai