

# Synthetic Evidence, Real Damage

AI-Generated Medical Data Is Fooling Experts. Your Organization Is Next.

**89%**

Radiologists fooled by AI-generated X-rays

**47%**

AI accepts fabricated medical advice

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# The Evidence Boundary Is Dissolving

**AI-generated X-rays have fooled board-certified radiologists. Synthetic clinical trial data has passed preliminary peer review.**

The boundary between real evidence and synthetic evidence is dissolving, and most organizations have no system to detect the difference. AI-authored medical literature is entering citation networks. Fabricated clinical images are passing expert review. Synthetic trial data is being generated at a quality that exceeds human detection thresholds.

This is not a future risk. Published research has documented AI-generated chest X-rays that board-certified radiologists classified as genuine at rates exceeding 89%. Synthetic clinical trial reports have passed initial peer review screening before being detected.

## The Contamination Risk

Once synthetic evidence enters citation networks, it compounds. Legitimate research cites fabricated studies. AI systems trained on these networks inherit the fabrications. The contamination becomes self-reinforcing: AI generates synthetic evidence, which enters the literature, which trains the next generation of AI systems.

**If synthetic evidence can fool radiologists, it can fool your competitive intelligence system, your regulatory monitoring, and your clinical decision support.**

# Provenance Is the Only Defense

**Detection after the fact is insufficient. The only defense is provenance tracking before the output reaches a decision-maker.**

Organizations cannot inspect their way out of the synthetic evidence problem. The volume of AI-generated content exceeds human review capacity, and the quality of synthetic evidence exceeds human detection thresholds. The solution is structural: every claim must be traced to its source, and every source must be independently verified.

## The Infrastructure Requirement

- **Source provenance tracking** that traces every claim to verifiable primary sources — not intermediary summaries or AI-generated syntheses.
- **Evidence authenticity scoring** that flags claims originating from sources with known synthetic content contamination or unverifiable provenance chains.
- **Continuous monitoring** of citation networks for synthetic contamination, retractions, and evidence quality degradation across therapeutic areas.

**Provenance tracking is no longer optional. It is the infrastructure that separates intelligence from fabrication.**

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