AI Screening Cuts Preterm Births by

How early detection in women’s health is changing outcomes.

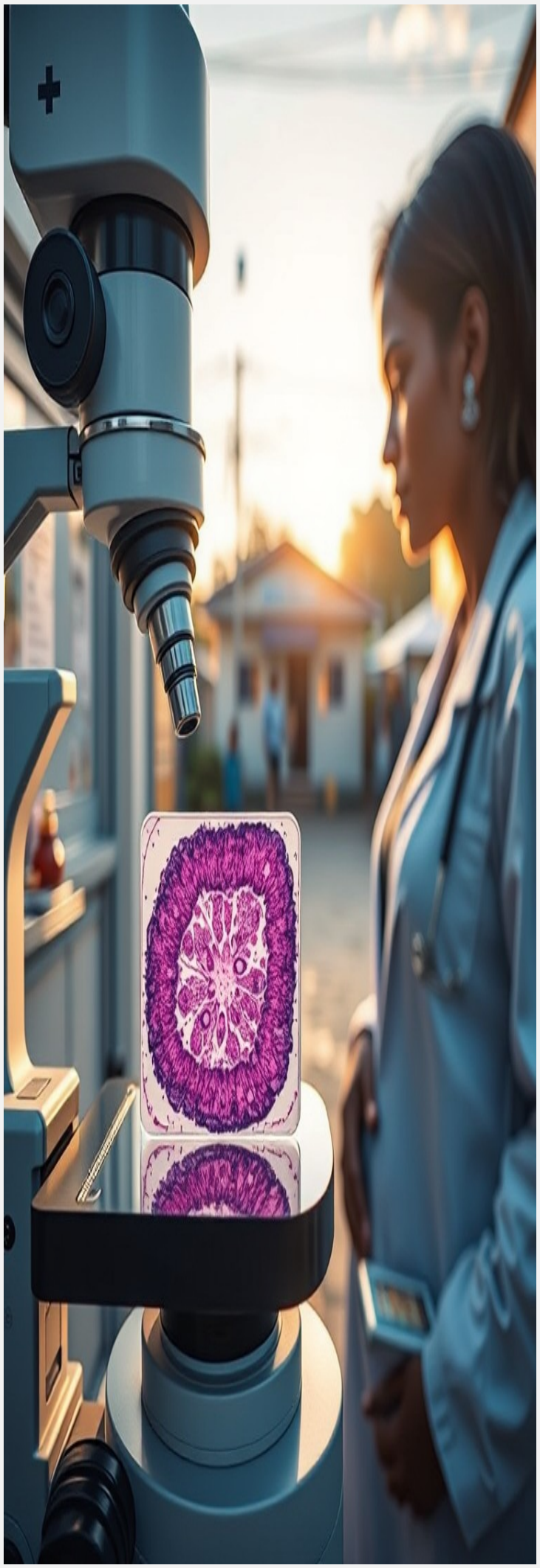
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THE DATA

Reduction in preterm births

Among pregnant women screened for STIs using AI-enhanced protocols at Penn Medicine.

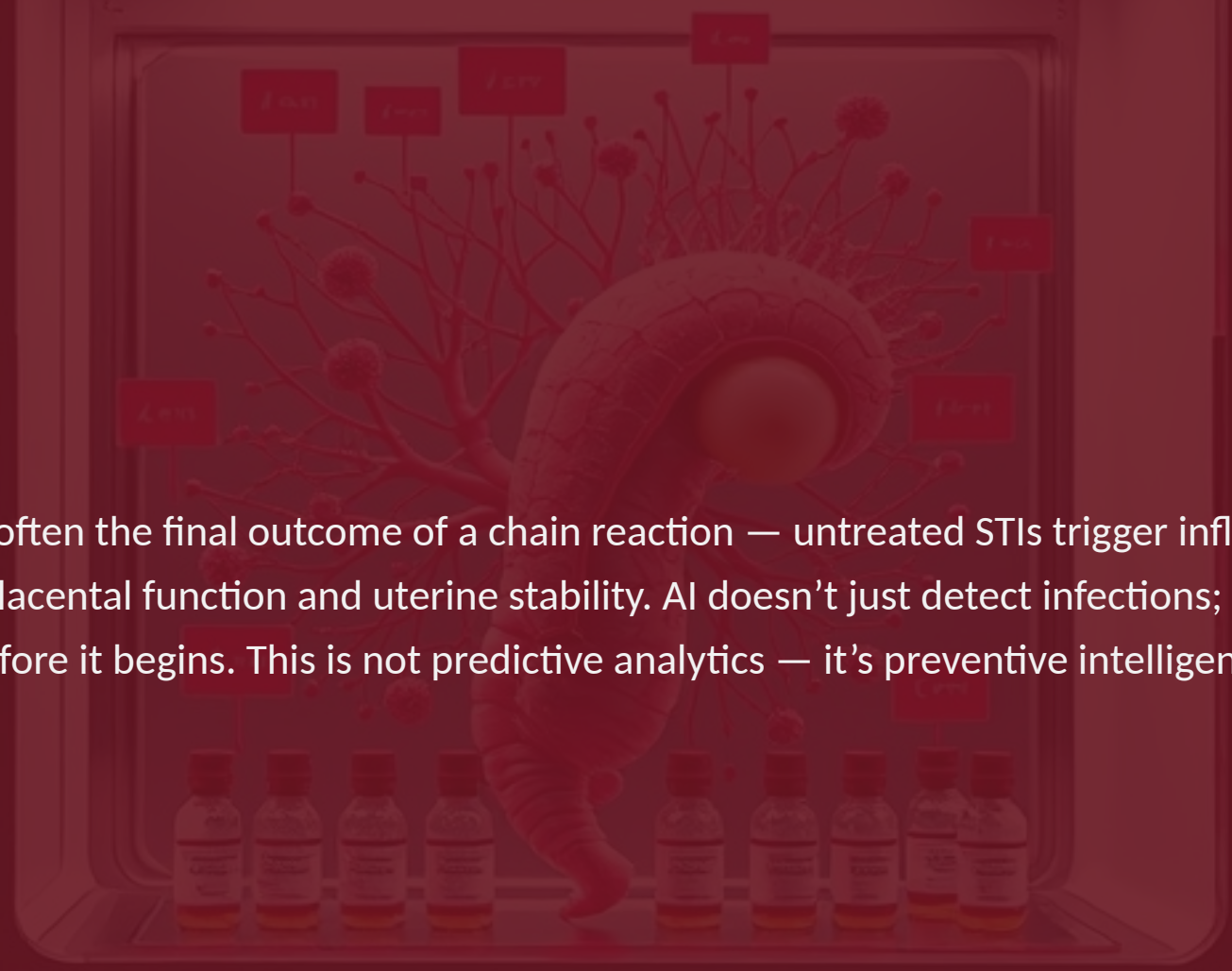
By leveraging AI to prioritize and interpret STI screenings, clinicians can intervene earlier, reducing the inflammatory and infectious pathways that lead to early labor.



Source: University of Pennsylvania News · Published November 25, 2026
https://penntoday.upenn.edu/news/penn-medicine-sti-screening-linked-fewer-preterm-births

01

Early detection prevents cascade failure



Preterm birth is often the final outcome of a chain reaction — untreated STIs trigger inflammation, which disrupts placental function and uterine stability. AI doesn’t just detect infections; it interrupts the sequence before it begins. This is not predictive analytics — it’s preventive intelligence at scale.



02

AI as a clinical equalizer

In underserved communities where access to specialized obstetric care is limited, AI-powered screening offers a standardized, scalable solution. It levels the playing field by delivering the same diagnostic precision regardless of geography or provider experience — turning a systemic gap into a data-driven opportunity.

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