No needle, no vial: India's first AI-based blood test launched in Hyderabad

Niloufer Hospital in Hyderabad has launched an AI-powered tool that performs blood tests without needles in less than a minute. It is the first such technology in the country.

The AI tool is an app that uses advanced face-scanning technology to deliver blood test results in 20 to 60 seconds.

In Short

- Niloufer Hospital is first in India to use AI-based blood testing tool
- The tool uses face scanning to deliver results in 20 to 60 seconds
- It measures vital parameters like blood pressure and oxygen saturation

In what is being seen as a potential game-changer for public health, Niloufer Hospital in Hyderabad has become the first in India to adopt an artificial intelligence-based diagnostic tool that conducts non-invasive blood testing in less than a minute, without needles, vials, or lab delays.

Developed by health-tech startup Quick Vitals, the tool, called Amruth Swasth Bharath, is an app that uses advanced face-scanning technology to deliver blood test results in 20 to 60 seconds without needing a single drop of blood.

It was recently unveiled at the hospital's Red Hills campus in Lakdikapul.

A BREAKTHROUGH IN DIAGNOSTICS

Unlike conventional blood tests, Amruth Swasth Bharath uses Photoplethysmography (PPG), a technology that detects changes in light absorption through the skin to assess vital health parameters such as:

- Blood Pressure
- Oxygen Saturation (SpO2)
- Heart Rate
- Respiration Rate
- Heart Rate Variability (HRV)
- Hemoglobin A1c
- Stress Levels
- Pulse Respiratory Quotient (PRQ)
- Sympathetic and Parasympathetic Nervous System activity

This non-invasive method allows healthcare workers to conduct instant health assessments using just a smartphone or tablet camera.

The system also supports continuous monitoring for patients using wearable contact-based PPG sensors.

'AS EAST AS A SELFIE'

Describing the technology, Harish Bisam, founder of Quick Vitals, said with the app, health monitoring has become as simple as taking a selfie.

"Our mobile face scanning system provides access to essential health data in under a minute. We believe this will bridge existing gaps in healthcare access, especially in underserved communities," Bisam said.

This ease of access, experts say, could be vital in large-scale health screenings, especially in rural and semi-urban areas where access to laboratories is limited.

FOCUS ON WOMEN AND CHILDREN

The AI tool is being seen as a major boost to maternal and child health programmes.

Dr. Ravi Kumar, Niloufer Hospital's superintendent, said that the initiative will help bring "timely diagnosis to the most vulnerable populations."

"Amruth Swasth Bharath is safe, fast, and beneficial for children and pregnant women," he said.

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Dr. Santhosh Kralet, member of the National Medical Commission, added that due to the technology, diseases like anaemia and other silent conditions, which often go undetected in women and children, can be diagnosed faster with more people being screened.

"It will ensure that no one is left behind in our health interventions," said Dr. Kralet.

SECURITY, SCALE, AND NEXT STEPS

Quick Vitals claims that data privacy and security are at the core of its design. The tool allows multiple users to be registered and also ensures patient data is shared only with authorised healthcare providers.

The system complies with Indian regulatory norms around medical data handling.

At the launch event of the Quick Vitals app.

The launch at Niloufer Hospital marks the first institutional rollout of this technology.

However, it won't be the last. Speaking at the launch event, Bisam announced that Maharashtra will be the next state to adopt the technology to scale access to AI-based diagnostics across India.

At a time when diagnostic backlogs and lab access still pose major challenges, tools like this could help speed up detection, reduce the need for invasive testing, and democratise access to quality health insights.

News Source:

https://www.indiatoday.in/health/story/ai-blood-test-tool-niloufer-hospital-non-invasive-diagnostics-telangana-quick-vitals-2727989-2025-05-21