

# Punjab Launches AI-Enabled Cancer & Vision Screening Devices

## Overview

The Punjab government has introduced advanced AI-enabled, radiation-free screening devices to strengthen early detection of cancer and vision disorders. The initiative is supported by ACT Grants and marks a significant step in enhancing preventive healthcare infrastructure in the state.

## Key Features of the Initiative

- **Diseases Covered:**
  - Breast cancer
  - Cervical cancer
  - Vision impairments
- **Technology Used:**
  - Portable, radiation-free, artificial intelligence-based devices
  - Designed to be simple to operate at primary health centers
  - Capable of delivering quick results with high accuracy

## Rollout Plan

- **Initial Implementation:** Devices will be deployed across eight districts of Punjab in the first phase.
- **Target Population:** Women and vulnerable groups with limited access to advanced diagnostic facilities.

- **Healthcare Integration:** Screening to be carried out at government hospitals, community health centers, and wellness clinics.

## **Expected Benefits**

- **Early Diagnosis:** Early identification of cancers significantly increases chances of successful treatment.
- **Accessibility:** Radiation-free devices make screening safer and more widely applicable, especially in rural areas.
- **Cost-Effectiveness:** AI-powered devices reduce dependence on expensive diagnostic imaging.
- **Scalability:** Potential to expand across the state and eventually integrate into national health programs.

## **Government's Perspective**

Officials emphasized that the project aligns with Punjab's vision of digital health transformation, focusing on prevention rather than late-stage treatment. The AI-based tools are expected to bridge gaps in healthcare delivery, particularly in underserved regions.

## **Public Health Significance**

- **Tackles the rising burden of cancer in India** by bringing advanced diagnostics closer to communities.
- **Supports national programs on non-communicable diseases (NCDs) and women's health.**
- **Demonstrates how public-private partnerships can accelerate healthcare innovation at the grassroots level.**