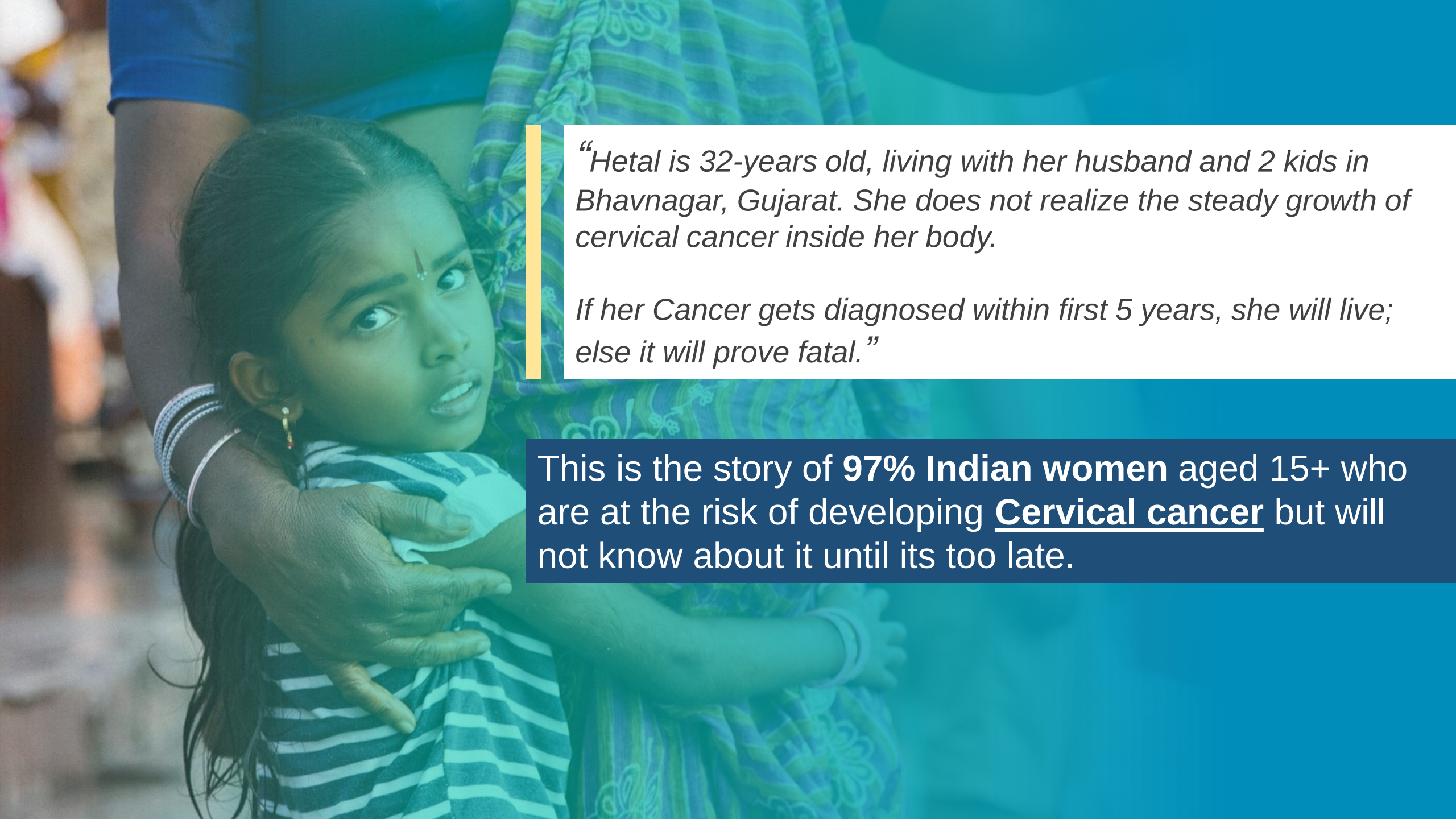
TECHGIG CODE GLADIATORS 2022

TECHGIG

CerviScope

The smart, non-invasive, handheld Colposcopy device for quick and automated Cervical Cancer Examination and Screening

Team Next Level



"Hetal is 32-years old, living with her husband and 2 kids in Bhavnagar, Gujarat. She does not realize the steady growth of cervical cancer inside her body.

If her Cancer gets diagnosed within first 5 years, she will live; else it will prove fatal."

This is the story of **97% Indian women** aged 15+ who are at the risk of developing **Cervical cancer** but will not know about it until its too late.

Cervical Cancer: The Global Problem

WHO launches strategy to eliminate cervical cancer; can India achieve the target

3 min read . Updated: 17 Nov 2020, 03:33 PM IST

Neetu Chandra Sharma

- Health experts claim that in India, there is a lack of awareness about cervical cancer screening and hitches associated with the invasive nature of screening. Less than 30% of women in India aged 30-49 years have been screened for cervical cancer

'Screening and HPV vaccination are crucial in arresting cervical cancer in India'

In India, about 160 million women aged 30-59 years are at risk of developing cervical cancer, and 122,000 new cases are diagnosed annually with 67,800 deaths- a fatality rate of 49 per cent.

Rashmi Mabiyan • ETHealthWorld • Updated: January 18, 2020, 15:02 IST

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Health

India lagging in cervical cancer prevention, needs more screening, vaccination, experts say

At a webinar hosted by Harvard University and Project Sanchar, experts noted that India contributes one-sixth of global cervical cancer cases and should put in more efforts to prevent it.

Forbes

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1 FACTS ABOUT CERVICAL CANCER
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4 10 CERVICAL CANCER SIGNS

Nov 20, 2020, 06:30am EST | 368 views

The WHO Has Released A Plan To Eradicate Cervical Cancer

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WHO to Unveil New Strategy Against Cervical Cancer

Cervical cancer elimination: WHO makes landmark commitment

NOVEMBER 18, 2020 BY KEREAN WATTS — LEAVE A COMMENT

"We want countries to aim for 90% of girls under 15 vaccinated, 70% of eligible women identified and treated, 90% of women with invasive cancer treated," Dr. Princess Nothemba Simelela from South Africa, WHO assistant director general, told a news briefing.

WHO launches strategy to accelerate elimination of cervical cancer

REUTERS

GENEVA, NOVEMBER 18, 2020 12:08 IST
UPDATED: NOVEMBER 18, 2020 12:13 IST

The problem is worse than what we already know..

1 Woman dies every 2 minutes because of Cervical Cancer worldwide

469+ Million
Indian women are at risk of developing Cervical Cancer

67,000+
annual deaths each year in India (higher mortality rate than COVID-19)

3%
of women ever get screened even once (for a 100% curable disease)

Existing tests: Pap Smear | HPV Test | VIA-VILI

Expensive tests

Long turn around times

Low Accuracy *Visual inspection*

No visual data for referral / counselling

Democratize and make cervical cancer screening accessible for all

..so, here's a solution for cervical health examination and cancer screening.

Compatible with

- High-resolution, Medical-grade cervical imaging
- Enhanced visualization, Accurate diagnosis
- Advanced optical/thermal imaging
- Point-of-care, Non-invasive

Automated Screening

Real-time Results

Record Management

Aids Tele-Oncology

CerviScope

INPUT	PROCESS	OUTPUT
Medical grade cervical image	• Pixel Intensity Processing • ML based predictive analysis • Mark Image Annotations • Contextual questions	• Detailed patient report • Follow on treatment documentation • Doctor-patient dashboard

Use Cases and Value Proposition

USE CASES	VALUE PROPOSITION
For On-demand Screening	• Enhanced Visualization, better diagnosis • Cost-effective • Real-time results • Portability, ease-of-use
For Mass-screening camps	• Accuracy Enhancement for VIA/VILI • Easy Patient Record Management • Remote collaboration via Tele-oncology

This is how we plan to integrate Microsoft Azure Services in our solution -

AZURE SERVICE	USE
Azure cosmos DB - NoSql DB	• To store patient details and test reports
Azure Files	• To store medical-grade cervical images
Azure Machine Learning & Computer Vision	• To perform predictive analysis on cervical images to screen abnormalities


WE FEEL EMPOWERED,
WHEN YOU ARE.