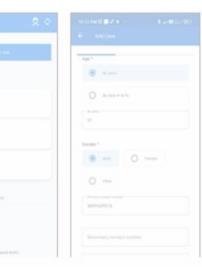
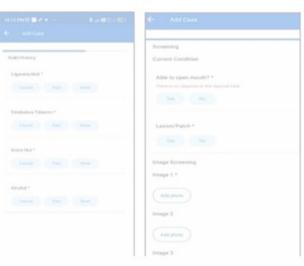
## PRINCE MAHIDOL AWARD CONFERENCE 2025









Scaling AI for Equitable Healthcare: India's Strategy & AIIMS' Role

Al enabled Oral cancer screening tool



**Training of Field Workers** 



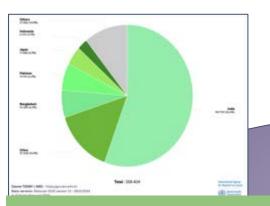
Outreach screening



Dr. Deepika Mishra

## PMAC PRINCE MAHIDOL AWARD CONFERENCE 2025





India ranks first in incidence and mortality of ORAL CANCER

Mortality

Country-specific data source: No data

Method: Estimated from national mortality estimates by modelling, using mortality.incidence ratios derived from survive estimation

Males, rural, low socioeconomic status, late diagnosis

\$5.6 billion (0.18% GDP). Developed countries- costs approx. 60% of GDP per capita



National Cancer Registry ~ 16.4% coverage (230 Million)

Stage-wise Data Gaps, Lack of data: Early Detection & tobacco usage for advisory/ policy



Tobacco use: 0.27 billion

(**28.6%**, 42% males)

Al-driven screening, diagnostics & health system integration

PATIENT'S
JOURNEY

First time tobacco user

Regular usage

No / Early symptom/ sign

Presence of Lesions

Advanced stage

Main setting	Home	Home	HWC/PHC	DH/CHC/GH	Tertiary Care
Stage	No lesion	No lesion/ Pre-cancer	No lesion/ Pre-cancer/ cancer	Precancer/ cancer (Stage 1/ advanced)	Advanced cancer (stage 3 or 4)
Intervention	Al enabled Tobacco cessation & patient support platform Education & Awareness	Tools to encourage Tobacco and areca nut (TAN) cessation	Arogya Arohan app for screening with tobacco habit history Tools to encourage Tobacco cessation	Al Integrated imaging & spectroscopy Tools to encourage Tobacco cessation	Al Chip development for multimodal deployment Histopathology & Multi OMICS integration Tobacco related research
Beneficiary	Patient nuous valid	Patient / Family Polate	ASHA/ ANM/ Nurse	Doctors	Specialists

**Partner State and National Programs** 

**Dashboarding of data** 

Incorporation of other cancers (cervical, breast

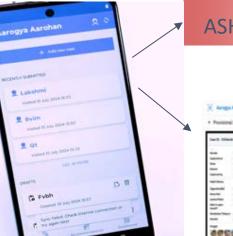
## AIIMS' AI-Driven Public Health Innovations

Al-powered point-of-care screening tools













**Tele Pathology & Decision Support Systems** 

**Continuous validation and Model update** 

- Real time monitoring
- Dashboarding of data







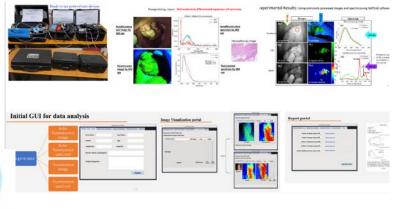


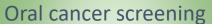


#### Al integrated imaging & Spectroscopy device



**Tobacco usage** 





- Suspicious
- Non-suspicious

Tertiary care data

## Empowering Healthcare through Data

Medical Imaging Datasets for India (MIDAS) is a joint initiative by ICMR, IISc and ARTPARK to create high quality and standardized medical datasets representative of Indian population

**MIDAS** 

**MIDAS** 

- Integration into National cancer screening programs
- Incorporation of other cancers (cervical, breast)



Number of **Outpatient**million/year

### Strategic Approaches by AIIMS, Delhi

Analyzing the Country's health care system



Identification of **Inefficiencies** 

Govt Discloses Rs. 10,372 Crore Breakdown for IndiaAl Mission, Aims to Make 'Public Sector' Datasets Al-Ready



Budget 2025-2026: AI Could Get Special Mention by FM Nirmala Sitharaman in Budget statement

Diabetic Breast Oral cancer retinopathy cancer Tuberculosis Leprosy

Sexually

transmitted

diseases

Disease based

approach

 Reduce turnaround times

- **Quality-graded** datasets
- Digital Public goods
- **Digital diagnostics**



**Evaluation of National** Healthcare programs



**Deployable Patient Centric AI to be** integrated into national programs







## PRINCE MAHIDOL AWARD CONFERENCE 2025

# Join Us in Scaling Al for Health

deepikamishra@aiims.edu

Collaboration & funding
Research,

validation,

deployment

#### **Partnership**

Organizations, academia & industry

Policy
Engagement
Al governance,
DPG,
standardization

































Dr. Varun Surya, AIIMS



Dr.Anubhuti Sood Dr. Beryl Rachel



Mr. Jitarth Patel





Dr Harpreet Singh, ICMR



**Prof Debnath** Pal, IISc



**Rohith Satish** 



Raghu Dharamraju



Nishant Soham

THANK YOU!

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