

www.ihci.in



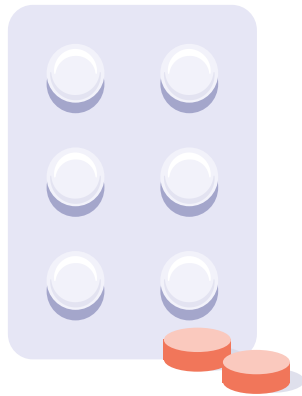
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INDIAN COUNCIL OF
MEDICAL RESEARCH | NATIONAL INSTITUTE OF
EPIDEMIOLOGY

IHCI

India
Hypertension
Control
Initiative



Protocol



Medication and
Blood Pressure
Monitor Supply



Community-Based
Treatment

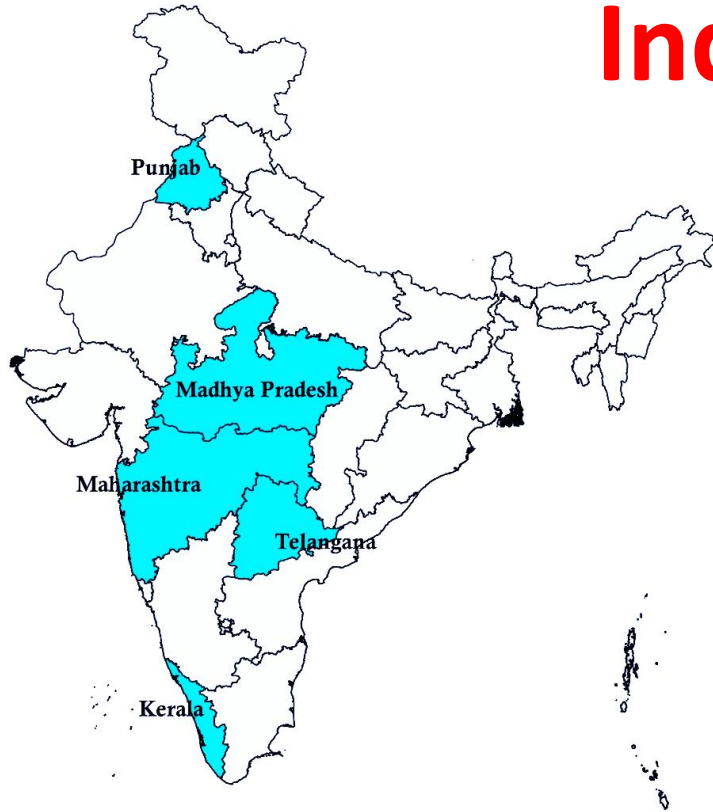


Patient-Centered
Care



Information
Systems

India Hypertension Control Initiative



- Launched in November 2017
- Strengthen the hypertension treatment component of the national program for NCD
- Strategies based on WHO HEARTS package

PARTNERS



स्वास्थ्य एवं
परिवार कल्याण मंत्रालय
MINISTRY OF
HEALTH AND
FAMILY WELFARE

सत्यमेव जयते

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EPIDEMIOLOGY



World Health
Organization

STATE GOVERNMENTS

RESOLVE
TO SAVE LIVES



Response by nurses on using a digital health information system

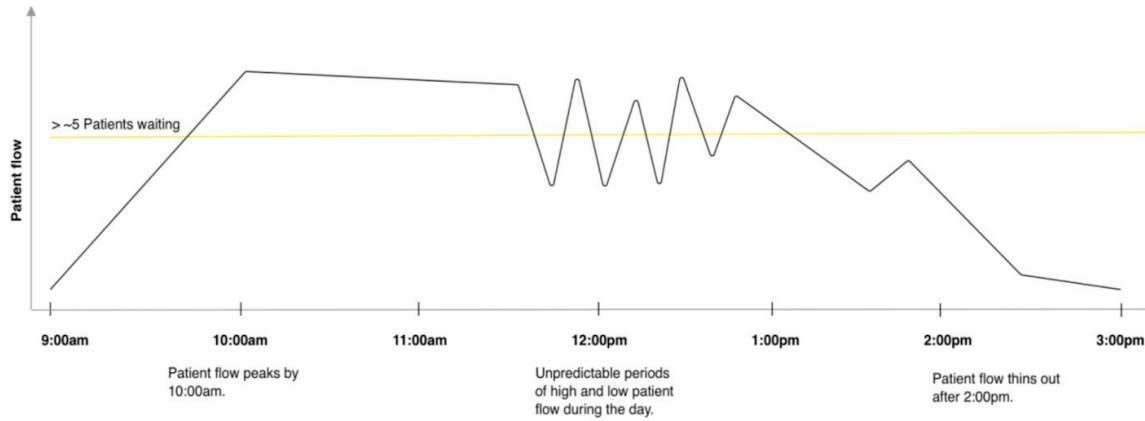
“I’m already very busy, please don’t make my work harder.”

TRUTH #2

“I didn’t come to work to just enter data, I came to help patients.”

TRUTH #1

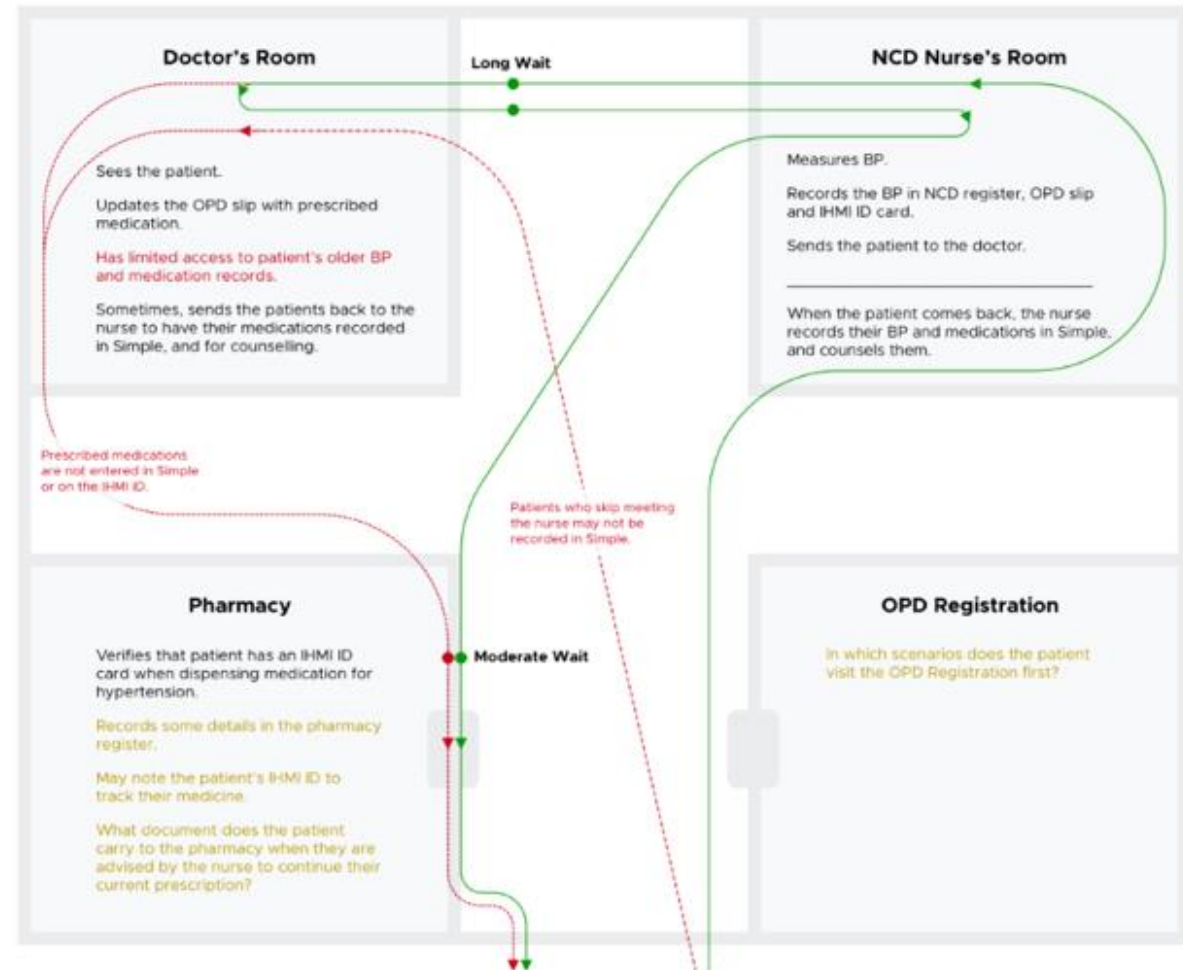




Nurse's workflow on a typical day in primary care government health facility, India

Understanding a nurse workflow with patient flow to contextualise the digital health system

Scenario 4: Large Facility – Follow Up Doctor and nurse sit in different rooms + Synchronous data entry



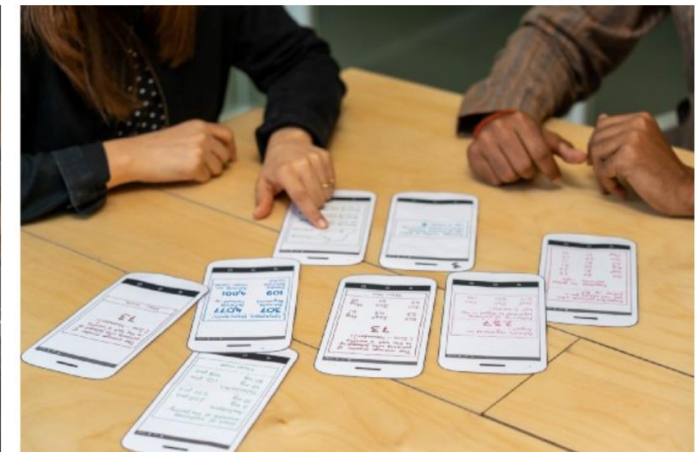
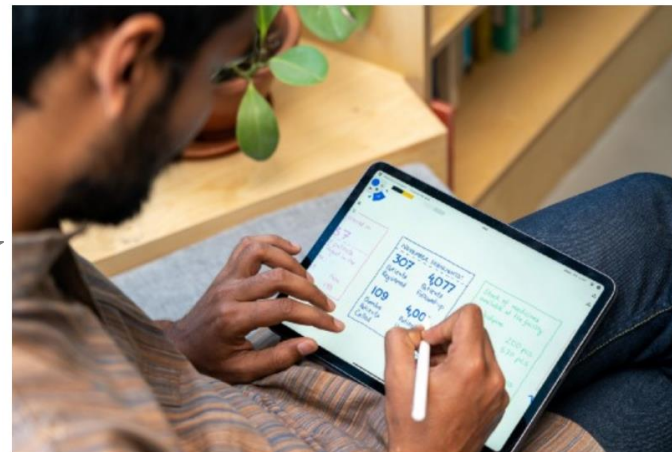
Patient's flow in a government health facility, India

Storyboard technique to illustrate how an app changes the workflow



CO-DESIGN APPROACH

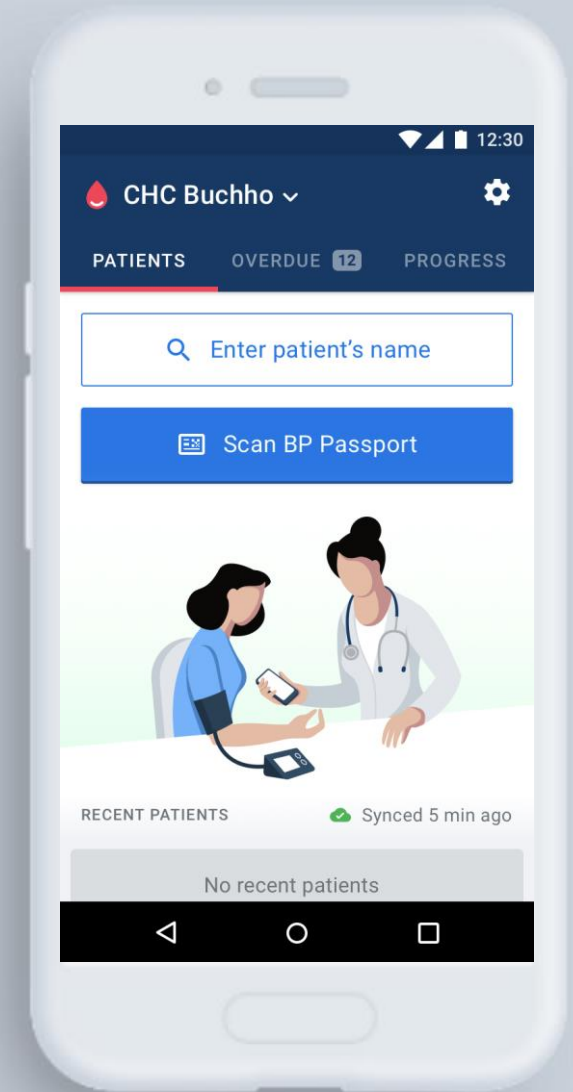
Hand drawn app designs along with the nurses



Simple

The fast, free open-source app for healthcare workers to improve hypertension and diabetes management.

- ✓ Fast
- ✓ Easy to use
- ✓ Works in resource-constrained environments
- ✓ Gets patients to return for follow-up care
- ✓ Easy to train
- ✓ Easy to deploy
- ✓ Interoperable with other health systems
- ✓ Gives managers actionable data, quickly

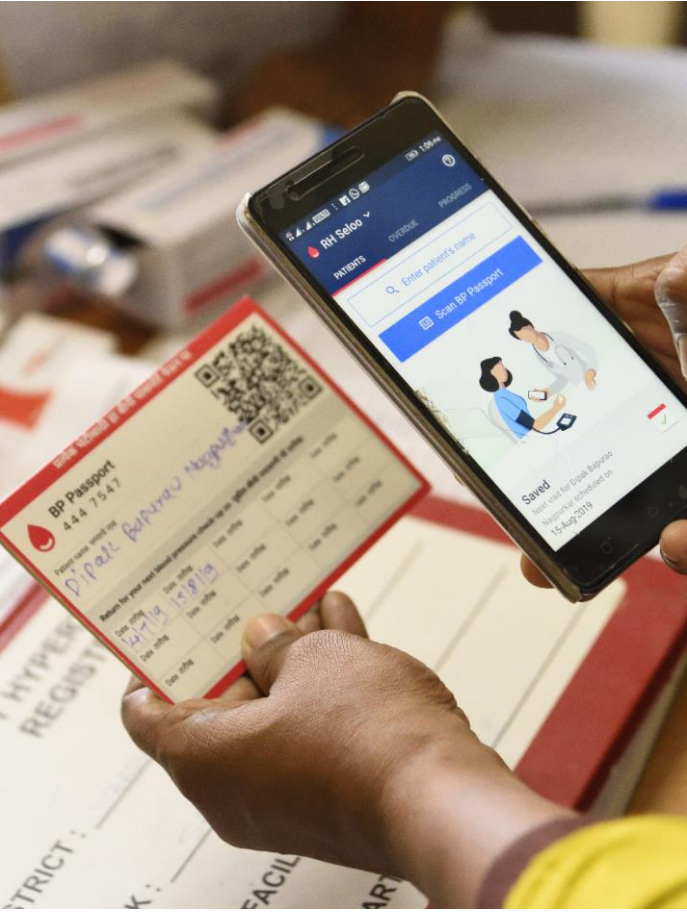
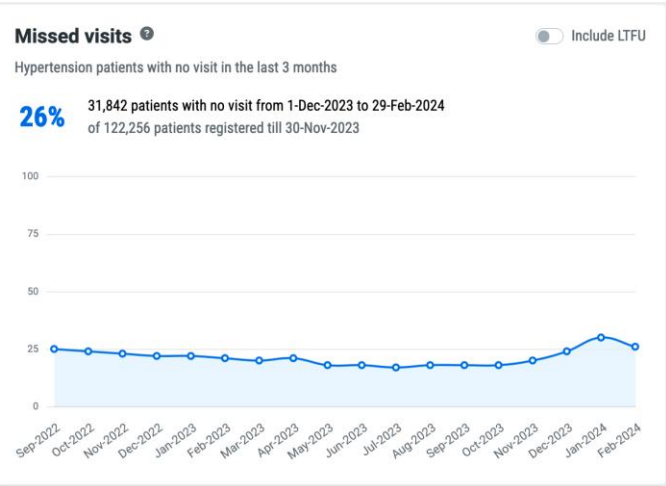
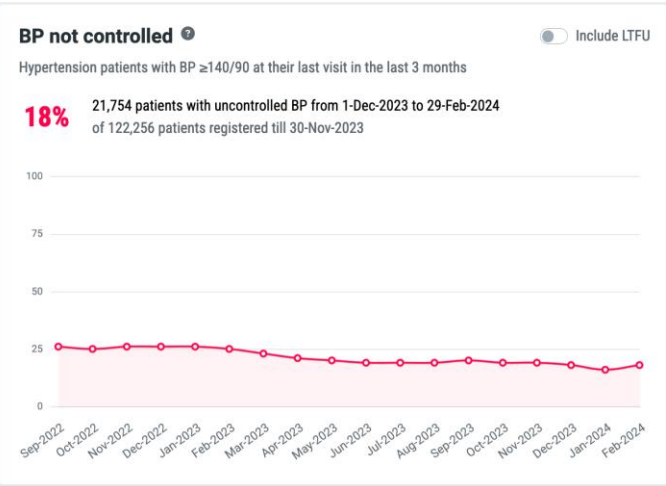
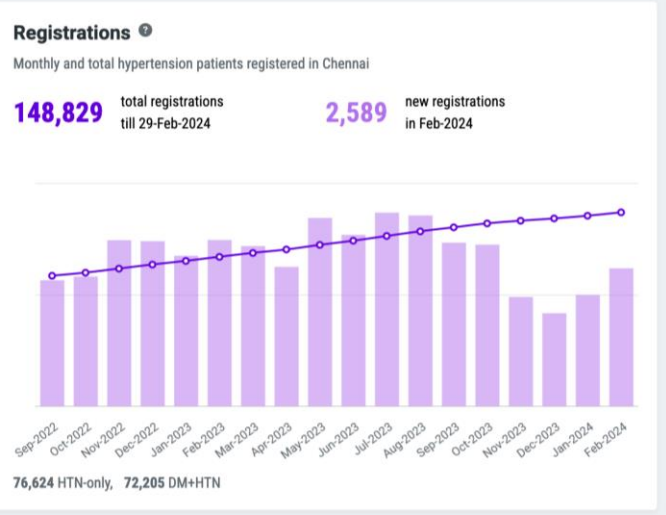
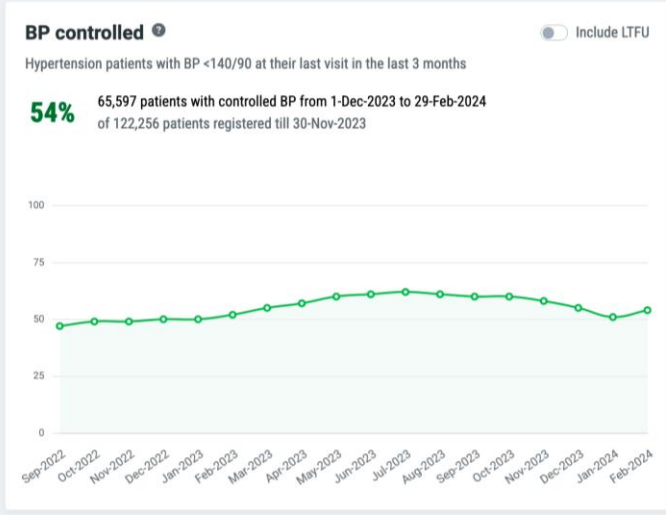


Use any modern Android device. Today, most doctors and nurses use their personal device.

Continuum of care – tracking patients

Hypertension Diabetes

Feb-2024 Downloads (HTN)



Information system with best IT standards



Offline-first

Faster and easier with/without internet



Truly free and open source

No strings attached. Simple's codebase is freely available and open source



Interoperable system

HL7 FHIR¹ compatible thus interoperable with NDHM² complaint systems



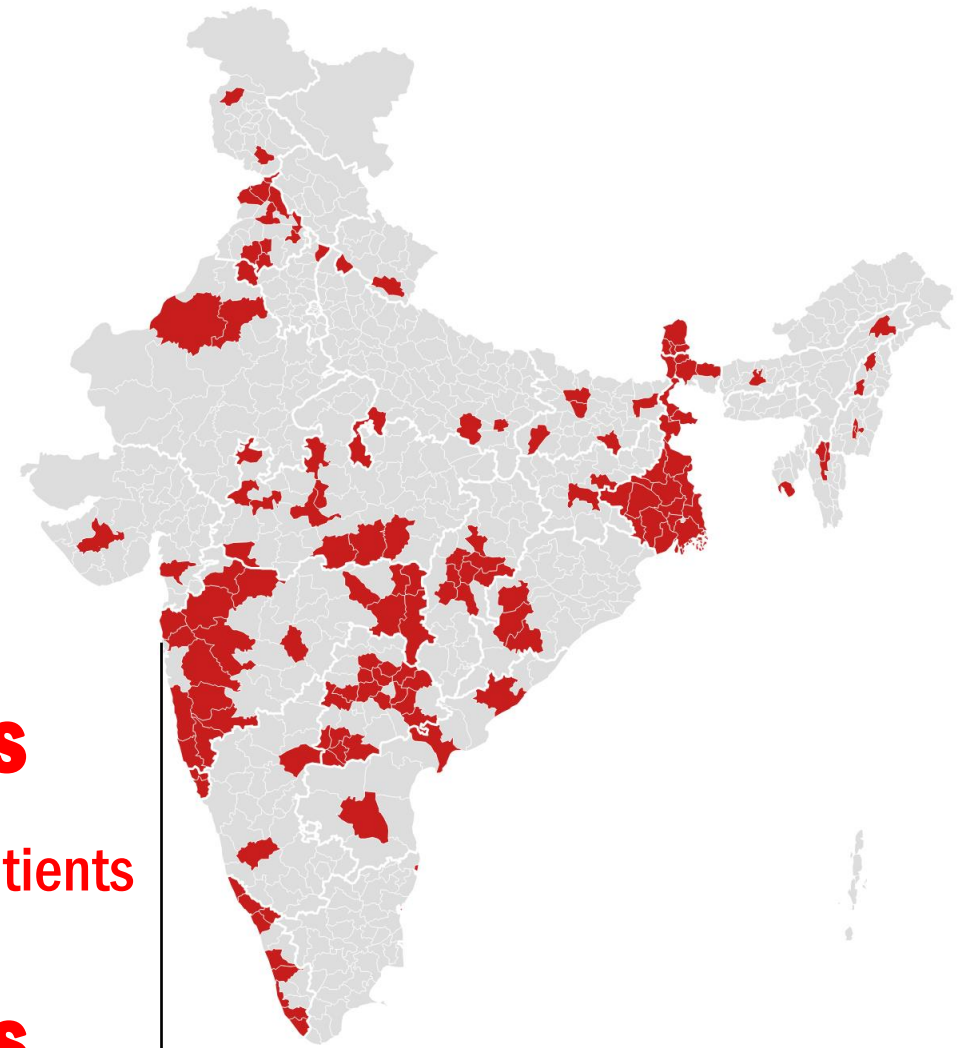
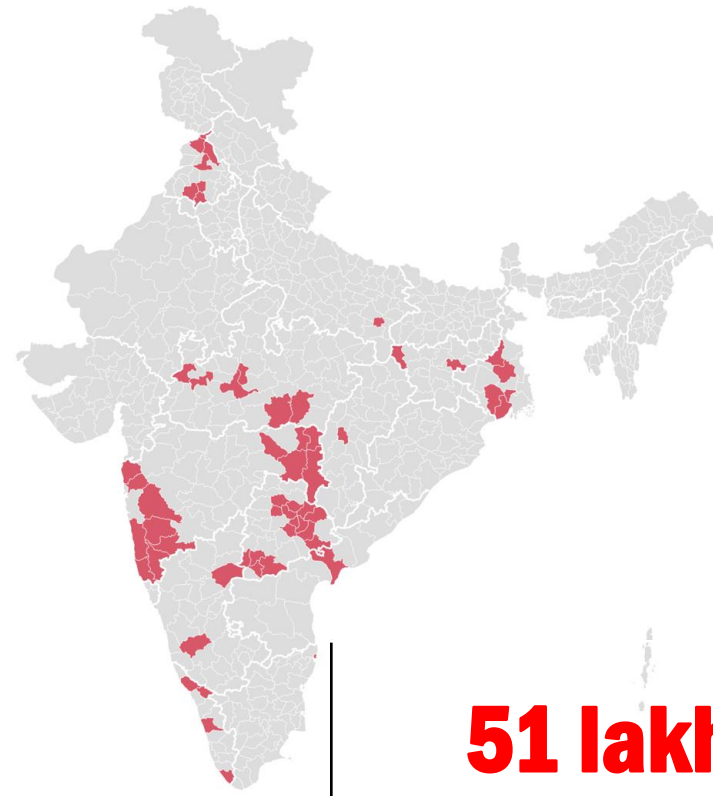
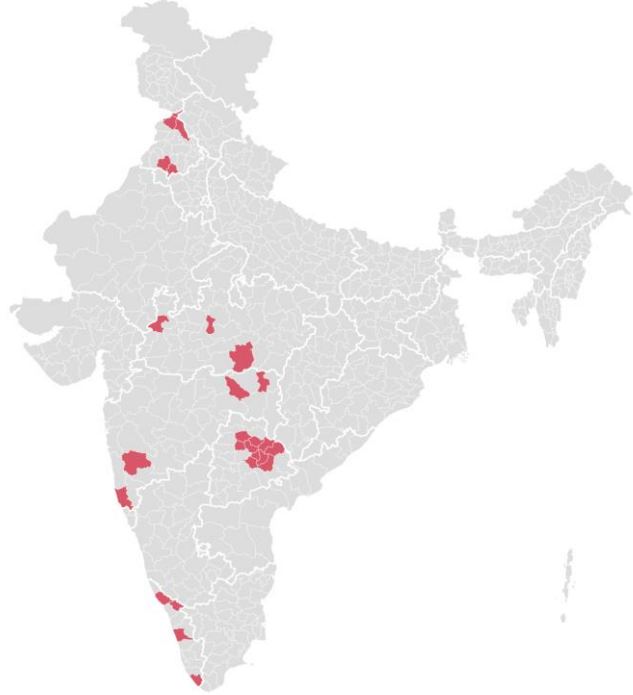
User-centric development

Designed and customized in the field involving nurses and doctors at public health facilities

2018 - 26 districts: Population 38 million

2020- 60 districts: Population 130 million

2024 - 157 districts: Population 232 million



Created with Datawrapper

Created with Datawrapper

23 **139** **14,285**

States Districts HWCs

45%

Average HTN control rate.*
61% in best state

8%

Average community HTN control rate.*
23% in best district

51 lakhs

Hypertension patients

20 lakhs

Diabetes patients



Health topics

Our work

News

Emergencies

[Home](#) / [News](#) / [Detail](#) / UN award for high-impact India Hypertension Control Initiative

UN award for high-impact India Hypertension Control Initiative

25 September 2022 | Highlights

India Hypertension Control Initiative (IHCI), a nationwide primary health care intervention under the National Health Mission, was awarded the [2022 UN Interagency Task Force and the WHO Special Programme on Primary Health Care Award](#) at a UN General Assembly side-event held on 21 September 2022 in New York. The award recognizes India's "highly impactful, large-scale hypertension intervention within India's existing primary health care system".

A collaborative initiative of Ministry of Health and Family Welfare, Indian Council of Medical Research, state governments and World Health Organization Country Office for India, IHCI has

AWARDS

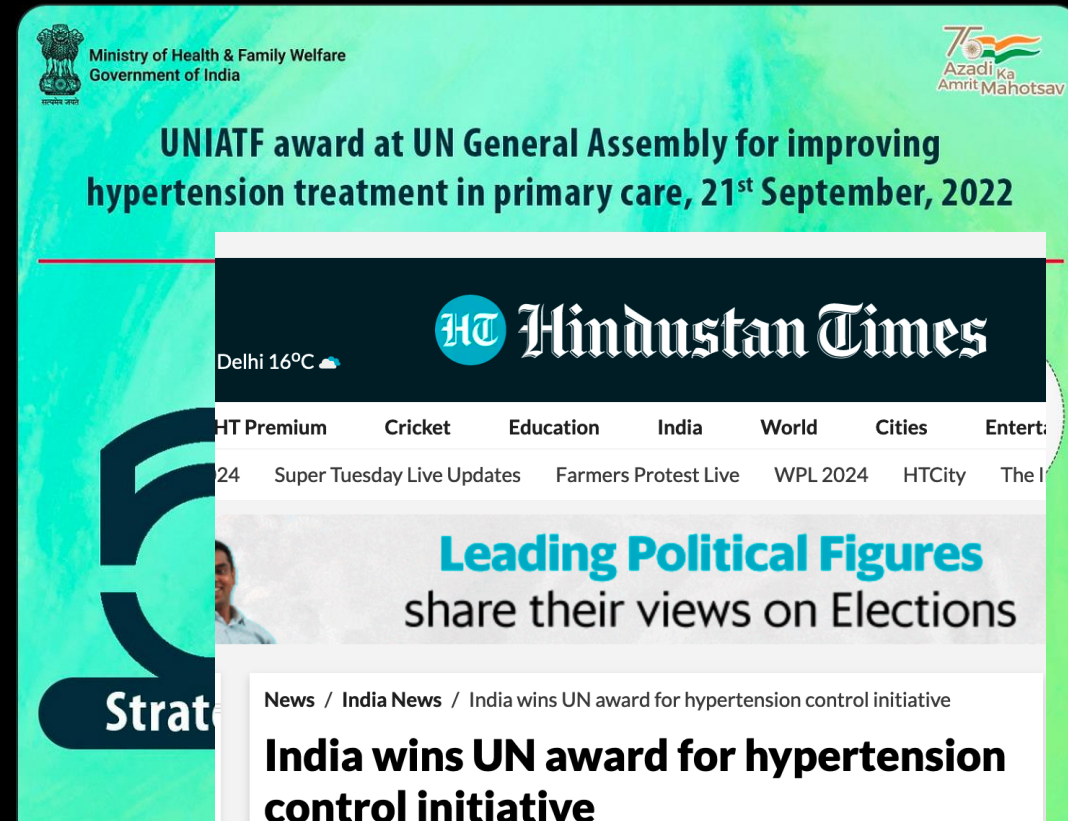


Ministry of Health

@MoHFW_INDIA

IHCI is strengthening primary health care facilities including HWCs & ensures regular hypertension treatment for >34 lakh patients in 130+ districts in 23 states.

#BeatNCDs



The screenshot shows a news article from Hindustan Times. At the top, there is a banner for the Ministry of Health & Family Welfare, Government of India, celebrating the UNIAF award at the UN General Assembly for improving hypertension treatment in primary care on 21st September, 2022. The article title is "India wins UN award for hypertension control initiative". The byline is "By HT Correspondent". The article is dated "Sep 21, 2022 07:24 PM IST". The article content begins with "The 'India Hypertension Control Initiative (IHCI)', a large-scale".

Discovery, development, and deployment of a user-centered point-of-care digital information system to treat and track hypertension and diabetes patients under India Hypertension Control Initiative 2019–2022, India

Parasuraman Ganeshkumar¹ , Aarti Bhatnagar², Daniel Burka³, Kiran Durgad⁴, Ashish Krishna⁵, Bidisha Das⁶, Mahima Chandak², Meenakshi Sharma⁷, Roopa Shivasankar⁷, Anupam Khungar Pathni⁵ , Abhishek Kunwar⁴ and Prabhdeep Kaur¹



ORIGINAL PAPER |  Open Access | 

India Hypertension Control Initiative—Hypertension treatment and blood pressure control in a cohort in 24 sentinel site clinics

PUBLICATIONS

<https://www.ihci.in/publications>

DIGITAL HEALTH
Volume 10: 1–16
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sagepub.com/journals-permissions
DOI: 10.1177/20552076241250153
journals.sagepub.com/home/dhj



The India Hypertension Control Initiative—early outcomes in 26 districts across five states of India, 2018–2020

Prabhdeep Kaur  Abhishek Kunwar Meenakshi Sharma Kiran Durgad Sudhir Gupta, [India](#)



GLOBAL HEART

Start Submission

Reading: India Hypertension Control Initiative: Blood Pressure Control Using Drug and Dose-Specific Standard Treatment Protocol at Scale in...

 Download

A+

Original Research

India Hypertension Control Initiative: Blood Pressure Control Using Drug and Dose-Specific Standard Treatment Protocol at Scale in Punjab and Maharashtra, India, 2022

PLOS ONE

 OPEN ACCESS  PEER-REVIEWED

RESEARCH ARTICLE

Improving the availability of antihypertensive drugs in the India Hypertension Control Initiative, India, 2019–2020

Abhishek Kunwar, Prabhdeep Kaur , Kiran Durgad, Ganeshkumar Parasuraman, Meenakshi Sharma, Sudhir Gupta, Balram Bhargava, on behalf of "India Hypertension Control Initiative (IHCI) collaboration" 

Key lessons from Simple app !

A digital tool that is used at every visit, replaces paper systems, and improves the ability of clinicians to care for patients and programme managers to improve system performance

Essentials of an NCD patient tracking system



Super fast and easy to use with QR code!

Average duration to register a patient ~ **70 secs**

Average duration to record follow-up visit ~ **13 secs**



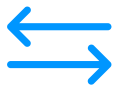
Real-time paperless Improves patient care | Blood pressure, medications recorded during patient interaction in a busy clinic



Cohort monitoring for quality care - patients are monitored using standard indicators of hypertension control and retention in care at all levels from facility to State



Overdue list retrieves patients that are lost to care | shared with community health worker for seamless patient follow-up



Transfer patients by a click - Assign patients to preferred facility (HWC)³ closer to home for refills and BP check

Information system with best IT standards



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Interoperable system ^{HL7}

FHIR¹ compatible thus interoperable with NDHM² complaint systems



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User-centric development

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1. Fast Health Interoperability Resources (FHIR) is a standard for health care data exchange by HL7
2. National Digital Health Mission
3. Health and Wellness Centre