e health: an Indian Perspective

Dr. Harsh Bhardwaj, MBBS, Medical Officer, FamilyDoctr

@harshbhrdwj
INDIA

- Crossing 130 million and second most populous country in the world
- One of the fastest growing economies in the world
- 7th largest country in the world
- Old Delhi Area / Chandni Chowk has a population of 1,447,230
- Old Delhi Area has a size of 10 Sq Km (Population Density ?)
- Average Population age is 29
- 2000 Ethnic Groups
- Every Major religion and Language Family has presence
LET’S CATEGORISE THE PROBLEM

Accessibility
• .9 Beds/1000 population
• Doctor : Patient 1 : 1700
• Nurse : patient 1 : 40
• Crowded tertiary centres

Affordability
• 20 Million cross BPL line
• One of the biggest contributor of poverty
• High OOP upto 67 %

Awareness
• Literacy rate 72%
• Overworked health force
• Ill Defined 1st contact point
• Public Reach out programme

Quality
• THE 4.0% GDP
• GHE is 1.4 % GDP
• High OOP = Poor Standards
• Non Standardised Financing
POSITIVES

ADVANTAGE INDIA
- CAGR 17%
- 4.71 Mn Directly employed
- Expected in top 3 H’care Markets
- 1 Mn Medical Tourist Visited India
- Med tourism CAGR 27% to reach $ 8Bn
- Hub of Clinical Research
- 100 % FDI in Healthcare
- Best standards of medical eduction
- Private Sector has 74% market share

POLICY INITIATIVES
- mHealth Emphasis
- NeHA
- NHP 2017 : Health Card
- UHC Coverage
- Increasing GHE to 4% of GDP by 2020
- Financing : Centre and State
- adoption of e-procurement models
- Sector Skill Council
- Innovation : Procurement from startups
# REDEFINING E-HEALTH - COMPREHENSIVE APPROACH

## CLINICAL OUTCOMES
- Early Diagnosis
- Expert Opinions
- Patient Monitoring
- Better Compliance
- Data Driven : High Quality
- Research Tool
- Awareness and Response

## GOVERNANCE OUTCOMES
- Unified Approach
- Monitoring of Schemes
- Beneficiary Tracking
- Procurement Decision
- Performance check
- Human Resource Management
### CASE STUDIES - BEYOND TELEMEDICINE PLATFORMS

#### Government’s e-Initiative
- [data.gov.in](https://data.gov.in): health resource page
- Mother and Child Tracking System
- Demand Driven e-procurement
- Central Health Resource Database by TN
- mDiabetes in view of rising Numbers
- Health Deck by Andhra Pradesh state
- AIIMS OPD Transition
- RMNCH-A

#### Innovations
- Fundus on the phone
- TruHb
- Onco pathology Slide analysis by Digibridge
- Intelligent prognosis by Cloud N Care
- World’s Smallest Ventilator
- Remote ICU Management
WAY FORWARD : COLLABORATIONS AND OPPORTUNITIES

• Technology Transfer
• India as a hub of regional healthcare
• AADHAR : Tool for Unique Patient Identification and Scheme Disbursal
• Data Analysis and Predictive Value
THANK YOU

Dr. Harsh Bhardwaj, MBBS, Medical Officer, FamilyDoc

@harshbhrdwj