

# eHealth in Digital India



NATIONAL HEALTH PORTAL

Gateway to authentic health information

[www.nhp.gov.in](http://www.nhp.gov.in)

NHP Voice Web (Toll Free): **1800-180-1104**



**Prof. Suptendra Nath Sarbadhikari, MBBS, PhD**  
Project Director, Centre for Health Informatics

**National Health Portal**

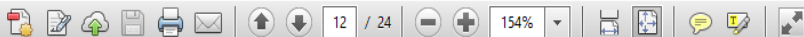
**NIHFW, Munirka, New Delhi 110 067**

**[supten@gmail.com](mailto:supten@gmail.com)**

# Digital India initiatives

Digital India Presentation on DeitY website.pdf - Adobe Reader

low Help



Tools Fill & Sign

## DIGITAL INDIA

### Pillar 5. eKranti - Electronic Delivery of Services

- **Technology for Education – e-Education**
  - All Schools connected with broadband
  - Free wifi in all schools (250,000)
  - Digital Literacy program
  - MOOCs – develop pilot Massive Online Open Courses
- **Technology for Health – e-Healthcare**
  - Online medical consultation
  - Online medical records
  - Online medicine supply
  - Pan-India exchange for patient information
  - Pilots – 2015; Full coverage in 3 years
- **Technology for Planning**
  - GIS based decision making
  - National GIS Mission Mode Project
- **Technology for Farmers**
  - Real time price information
  - Online ordering of inputs
  - Online cash, loan, relief payment with mobile banking
- **Technology for Security**
  - Mobile Emergency Services
- **Technology for Financial Inclusion**
  - Mobile Banking
  - Micro-ATM program
  - CSCs/ Post Offices
- **Technology for Justice**
  - e-Courts, e-Police, e-Jails, e-Prosecution
- **Technology for Security**
  - National Cyber Security Co-ordination Center

**Ongoing Programme (NeGP) – will be revamped to cover these elements**



**NATIONAL HEALTH PORTAL**  
 Gateway to authentic health information  
[www.nhp.gov.in](http://www.nhp.gov.in)  
 NHP Voice Web (Toll Free): 1800-180-1104



- Home
- About NHP
- Quick Navigation
- External Useful Links
- Feedback
- Tender
- Contact Us
- DISEASE A-Z ▼

Search

## INTERNATIONAL DAY OF YOGA 2015

International Day of Yoga

### NHP Health Directory Service mobile App

URL: <https://play.google.com/store/apps/details?id=com.nhp.healthdirectory>  
 NHP-Health Directory Service

### Launch of 24x7 Helpline (Voice authenticated information)

1800-180-1104 (NHP Voice Web)

Launch of National Health Portal

### HEALTH TIPS

Avoid eating raw, leftover food or food from road side stalls during monsoon.

बारिश के दिनों में सड़क के किनारे दुकानों पर बिकने वाली कच्ची सलाद, बासा भोजन और आहार का सेवन करने से बचें।

### DISEASE A-Z

- Swine Flu (H1N1)
- Ebola
- AIDS / HIV
- Asthma
- Hepatitis
- Tuberculosis
- Cancer
- Breast Cancer
- Diarrhea
- Dengue Fever
- Japanese Encephalitis
- Malaria

### DIRECTORY SERVICES

HELPLINE

HOSPITALS

AMBULANCE

BLOOD BANKS

### HEALTHY LIVING

- Immunization
- Adolescent Health
- Women's Health
- Pregnancy
- Travel Health

### HEALTH WELLNESS CALENDAR

### What's New

- Online Registration System - Patient Portal
- Kayakalp Swachhta Guidelines for Public Health Facilities

### MULTIMEDIA GALLERY

# Standards for HIE (Why?)

**Goal:** To provide better and cost effective patient care one needs to exchange healthcare information.

**Standard:** Ability of two or more systems or components **to exchange** information and **to use** the information that has been exchanged [IEEE Standards Computer Dictionary]



# Broad Categories

## Structure

Transport - XML; Infra-structure: IHIP

## Terminology & Coding Systems

### Coding Systems

Vocabulary - e.g.,  
ICD-10: SNOMED-CT

## Identifiers

e.g., UID / Aadhaar

Content Exchange:  
Clinical-HL7; Imaging-  
DICOM

## Information Interchange

Confidentiality -  
necessary laws

## Security & Privacy


[Home](#)
[IHTSDO](#)
[SNOMED CT](#)
[Participate](#)
[Australia](#)
[Belgium](#)
[Brunei](#)
[Canada](#)
[Chile](#)
[Czech Republic](#)
[Denmark](#)
[Estonia](#)
[Hong Kong, China](#)
[Iceland](#)
[India](#)
[Contact Details](#)
[Israel](#)
[Lithuania](#)
[Malaysia](#)
[Malta](#)

## India

In March 2014 India became a Member of IHTSDO, joining a global effort to develop, maintain, and enable the use of SNOMED CT in health systems around the world.

The Health Care sector in India has witnessed significant growth during the last few years, both in terms of quality and capacity. However, easy accessibility to quality healthcare and affordability for the citizens at large continue to remain our key concerns.

Indian healthcare system is diverse in nature. At one end of the spectrum there are single doctor clinical establishments, on the other end of the spectrum there are large public and private sector super-speciality hospitals.

The large corporate hospitals are increasingly moving towards maintaining Electronic Health records (EHR) of their patients. However, these systems are highly fragmented and use multiple information technology systems. Consequently, a patient's health information often gets trapped in silos of legacy systems, unable to be shared with other system and establishments.

Recognising this and to encourage standardization, integration and electronic information exchange amongst the various healthcare providers and recognising that the electronic collection, storage, processing and transmission of personal health data require adherence to the highest standard of data protection, Ministry of Health & Family Welfare, Government of India (GoI) decided to frame "EHR Standards for India".

The EHR standards were formulated after extensive discussion with all the stake holders and thereafter notified by the GoI in September, 2013. Some of the approved standards prescribed in the EHR Standards for India include WHO International Classification of Diseases (ICD) 10, Systemised Nomenclature of Medicine Clinical Terms (SNOMED-CT), Logical Observation Identifiers Names and Codes (LOINC), Health Level 7 (HL7), NEMA's Digital Imaging & Communication in Medicine (DICOM), Clinical formats such as HL7 CCD (Continuity of Care Document).

The Ministry of Health and Family Welfare has decided to facilitate and promote adoption of the standards voluntarily and in a phased manner. Government of India (GoI) runs a scheme called Central Government Health Scheme (CGHS) to provide health care facilities to its employees, both serving and retired. More than 400 private hospitals are empanelled under the scheme. Adoption of EHR standards has been made a pre-condition for empanelment of hospitals under the scheme, thereby ensuring adoption of EHR standards by a large number of hospitals in different parts of the country.

Government of India (GoI) is also in the process of Standardising Codification for Health Procedures in India and framing Metadata and Data Standards (MDDS) for health sector. MDDS will facilitate interoperability of e-Governance applications by providing a common data information model for various stakeholders in the health system – national and state, public and private, to begin sharing meaningful information with each other in a timely manner.

Government of India (GoI) has recently procured the SNOMED-CT license for India and is offering it for



NATIONAL HEALTH PORTAL  
Gateway to authentic health information  
www.nhp.gov.in  
NHP Voice Web (Toll Free): 1800-180-1104



All Search Search

Home » Quick Navigation » Professional Enhancement » Electronic Health Record Standards For India Helpdesk

### Electronic Health Record Standards For India Helpdesk

- MoHFW Circular For Implementation Of EHR / EMR In India
- MoHFW Circular For Implementation Of EHR / EMR In India
- Electronic Health Record Standards
- Queries Regarding Implementation Of EHR Standards
- Mobile Apps
- SDK Suite / Interface Engine
- SNOMED-CT
- State Health Portals

**EHR Standards Helpdesk**

[Integrated Health Information Platform \(HIP\)](#) *New!*

[National Consultation on National eHealth Authority \(NeHA\)](#) *New!*

[National Release Centre](#) **DOWNLOAD** ↓

[Comments invited on the draft of Revised EHR Standards for India](#)

[SNOMED CT Foundation Course Applications Open](#)

[Technical reports on M2M Enablement in Remote Health Management released by Hon'ble MOC&T](#)

Government of India intends to introduce a uniform system for maintenance of Electronic Medical Records / Electronic Health Records (EMR / EHR ) by the Hospitals and healthcare providers in the country. An Expert committee was set up to develop EMR / EHR Standards for adoption / implementation in the country. Draft EMR / EHR Standards were hosted on the website of the Ministry soliciting comments from the stakeholders and general public. After due consideration of the recommendation of the Committee and the comments received thereon, the **Electronic Health Record Standards for India** have been finalised and approved by the Ministry of Health and Family Welfare, Government of India.

[DO letter from JS P to Principal Secretaries for use of EHR standards 4th September 2014](#)

[DO letter from Secretary Health and Family Welfare for use of EHR standards in eHealth application](#)

[Free Browser for SNOMED-CT](#)

[Order of constitution of Project Review and Steering Committee for INRC for SNOMED-CT](#)

[SNOMED CT Webinars - NEW Introduction to SNOMED CT](#)

[SNOMED CT Webinars](#)

[SNOMED-CT Introduction](#)

- Related Pages**
- [Acronyms, Definitions and Glossary](#)
  - [Useful Links](#)
  - [विदेश उपयोगी कड़ियाँ](#)
  - [Categories for Adoption of Standards](#)
  - [Data Privacy and Security](#)
  - [Data Ownership of EHR](#)
  - [Electronic Health Record Standards](#)
  - [Executive Summary](#)
  - [More](#)

Feedback

f t g

**NCHI**

**National Centre for Health Informatics**





# NATIONAL HEALTH PORTAL

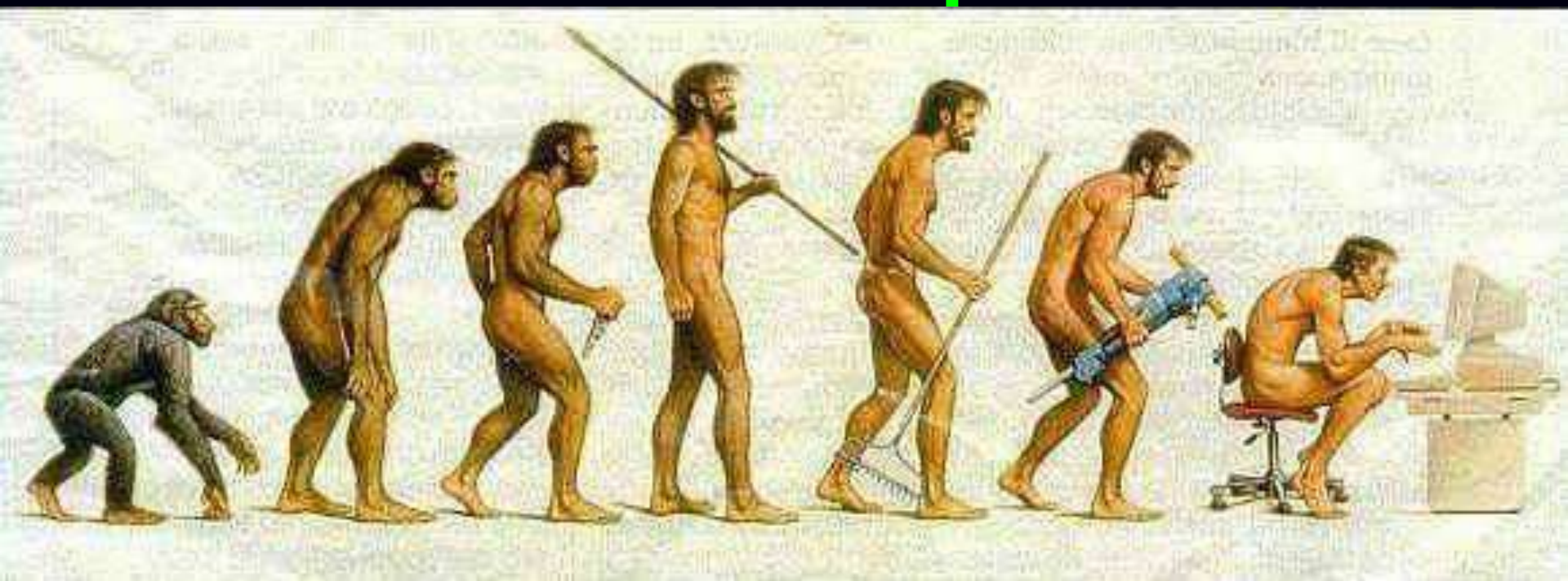
Gateway to authentic health information

- ▶ Hospital Near You
- ▶ Ambulance Services
- ▶ Blood Banks
- ▶ Emergency Helpline
- ▶ Healthy Living

[india.gov.in](http://india.gov.in)



# Future Prospects



Only those who do not  
have a future think of the  
future -Oscar Fingall  
O'Flahertie Wills Wilde