

Integrated Health Information System (IHIS) for Universal Health Coverage

Primary health care (PHC) builds backbone of an effective health-care system by integrating care for individuals, their families and communities. Primary healthcare services require information systems to identify needs of the community, healthcare providers, managers & planners to improve healthcare provisioning & monitoring.

To meet the above mentioned requirements an integrated health information system which can support universal health coverage has been built on an open source & free DHIS2 Tracker platform using living lab concept with active engagement and ownership of health functionaries. It covers all major national health programmes (RCH, NPCDCS, RNTCP etc.) and is easily customizable as per the needs of the user.

System Functionalities

Family Folder

- Builds family member relationship
- Generates Unique ID
- Allocates health programmes to individuals

Tracking

- Tracks medical history
- Automates Workplans
- SMS for scheduled appointment
- GIS mapping

Analysis

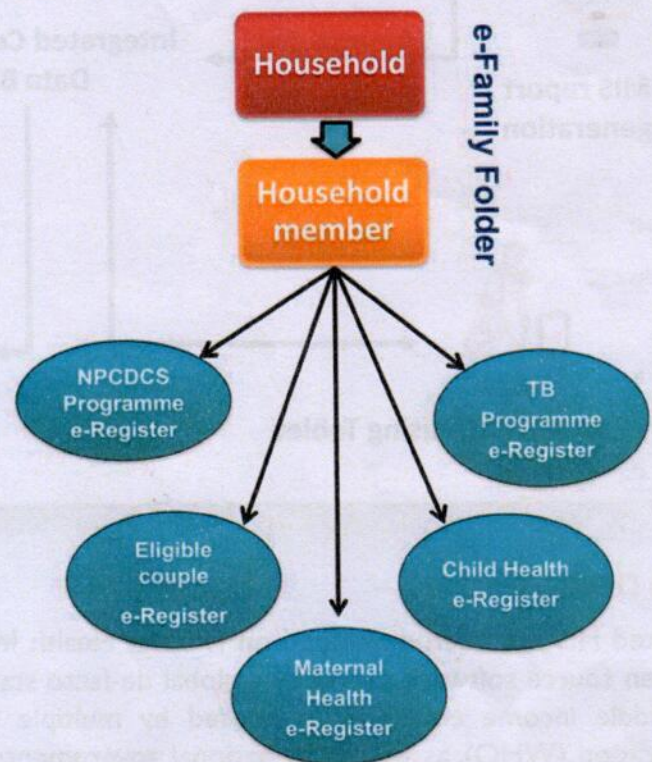
- Basic Analytics
- Generates Graphs
- Customized Indicators

Reporting

- Automated e-Registers
- Automated e-Reports

Added Functions

- Links OPD with Community health activities
- Customized SMS for Health Promotion
- Supports android application



System Advantage

Integrated IT based approach to information system, timely & reliable data for decision making by health provider, transparency & accountability, reduced errors, effective utilization of resources, identification of gaps in services, improved outreach & targeted services, tracks missed appointments, ensuring continuity of care, improved local surveillance, generates indicators for monitoring performance, generates e-registers and e-reports.

Family Folder

Name	XXXX
Household	0489
Type of House	B1
Series of member	M01
Family member Unique id*	CHD/*****
Sex	Male
Mob number	9544*****
Relation to head of family	Self

02 – House hold members

Relationship	Relation to head of family	Name of family member
Family member	Wife	xxxx

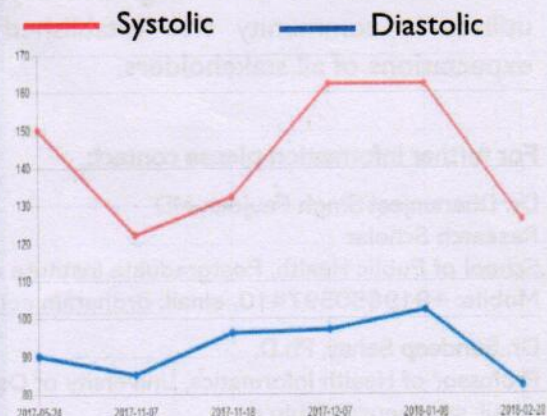
04 – Maternal health

Relation ship	MCTC id of mother	Relation to head of family	Name of family member
FM		Wife	xxxx

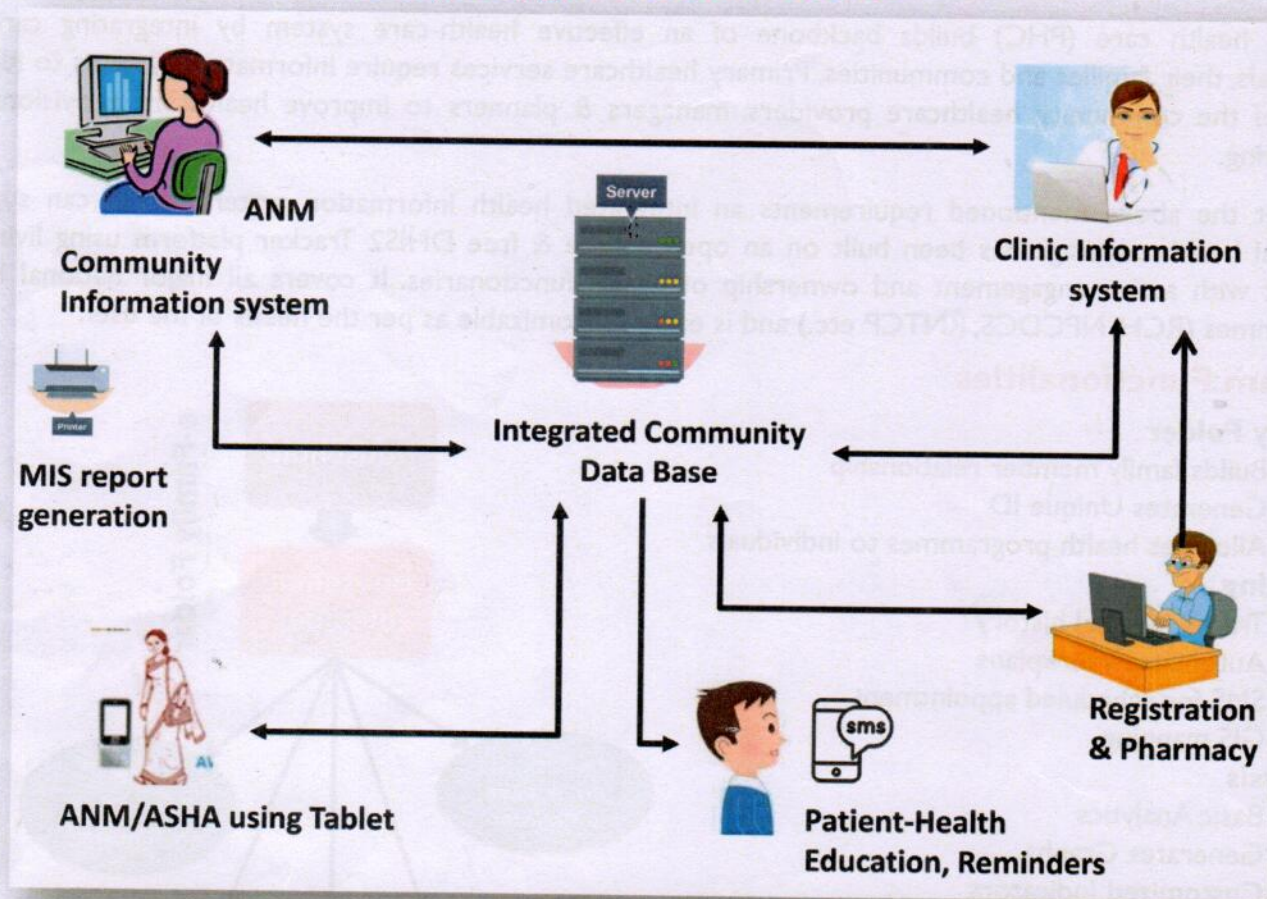
06 – NPCDCS

Relationship	Relation to head of family	Name of family member
FM	Wife	xxxx

Graph for Hypertension Tracking



Integrated Health Information System Set-up for Primary Health Care



About DHIS2 Tracker

Integrated HIS has been developed on District Health Information System 2 (DHIS2) Tracker which is free and open source software, currently a global de-facto standard for building health information systems in low and middle income countries. It is used by multiple international organizations, like the World Health Organization (WHO), as well as by national governments worldwide. The platform is currently used in more than 70 countries and in many states in India. The DHIS 2 system is supported by a non-profitable organization Health Information Systems Program (HISP) in India which is a long-standing partner of University of Oslo, Norway.

International Partnerships for Excellent Education and Research (INTPART)

Integrated HIS for UHC and a Public Health Informatics course has been designed under the project which is funded by Norwegian Research Council to School of Public Health, PGIMER, Chandigarh and University of Oslo, Norway. The project seeks to design a health information system for strengthening patient based care in primary health care setting. The project uses living lab approach where user is the co-creator and inputs are taken from the real life setting. An ecosystem consisted of system creator, system users, researchers & service utilizer in community was established to design a frugal health information system which can meet expectations of all stakeholders.

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