

CATALYZING DIGITAL HEALTH

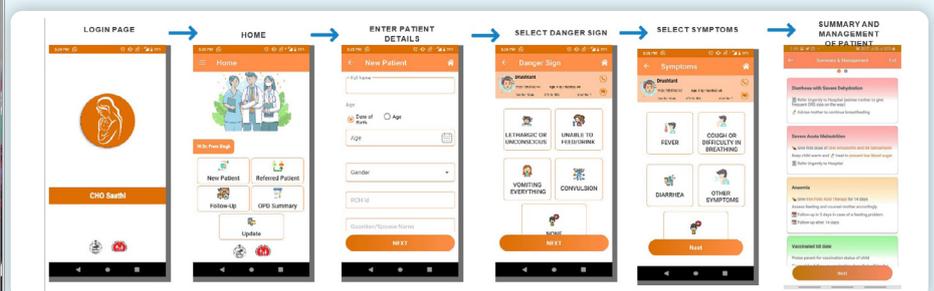
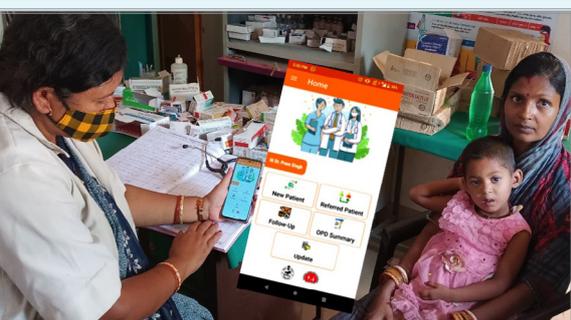
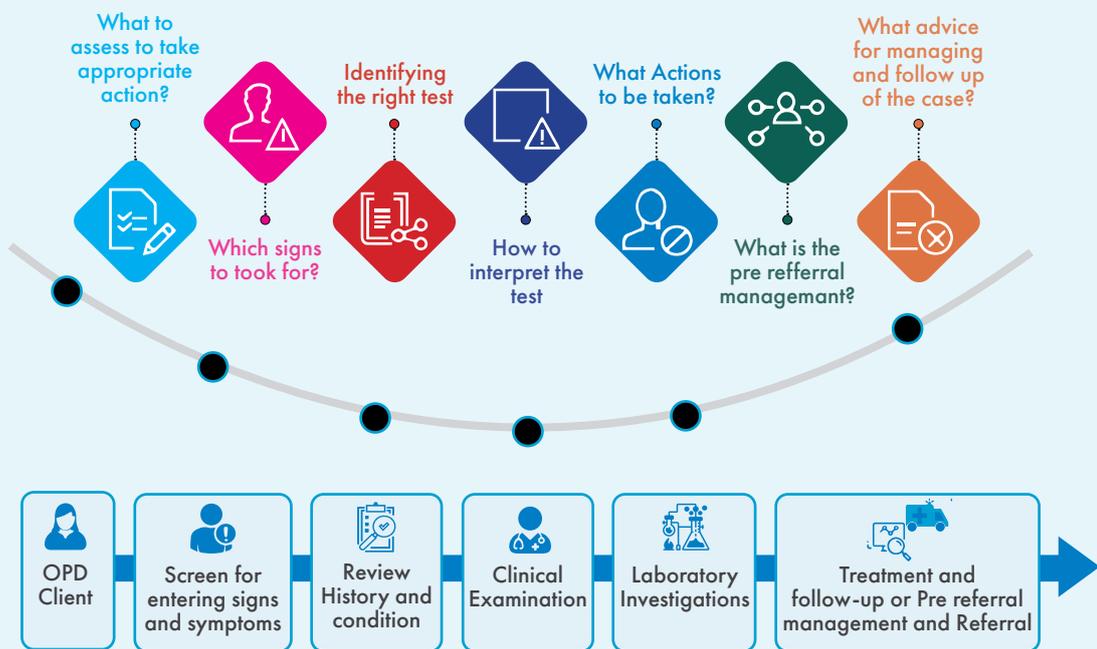
Norway India Partnership Initiative

Norway India Partnership Initiative (NIPI) is supporting National Health Mission, Ministry of Health and Family Welfare, Government of India by developing and testing Digital solutions for improved health outcomes thus helping the country achieve Sustainable Development Goals 2030. Taking a leaf from Government of Norway's Digital Transformation and Development Policy, NIPI is making efforts to make digitalization a part of India's health priorities and integrate it into programs.



Decision Support System for Frontline Workers for assessment of childhood illnesses

The Decision Support System (DSS) is a user friendly and smart-device based application. It supports health workers, including the newly appointed Community Health Officers, in practicing evidence-based care at the community level by assessing severity of symptoms timely and provide appropriate clinical decisions including pre-referral management. Introduction of DSS has led to an increase by 24% in referral of children (0-5 years) by CHOs at their respective HWCs.

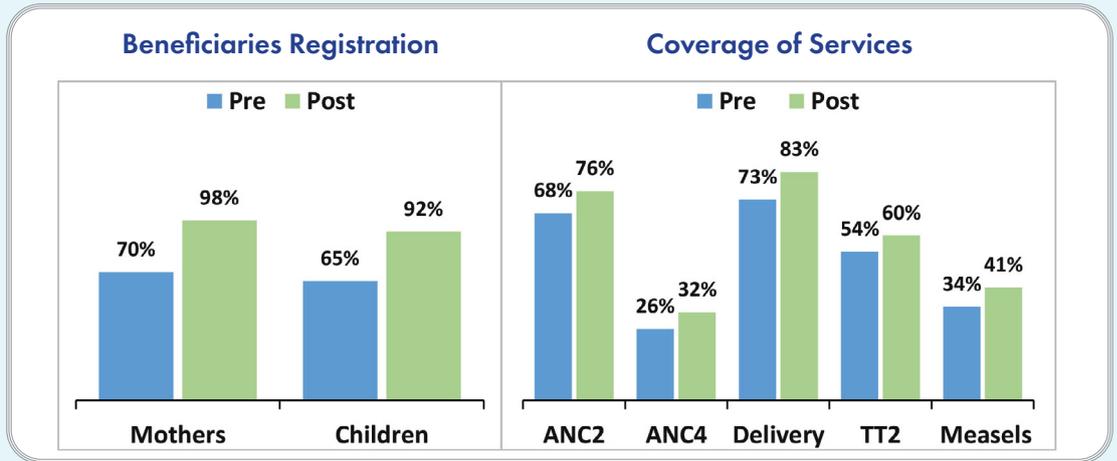




Integrating QR Code in ANMOL for improved Reproductive Child Health (RCH) Services

National Health Mission, Odisha with technical support of NIPI, introduced QR code enabled MCP card and the QR code scanning functionality in Mother and Child tracking application (ANMOL). A tablet-based mobile solution for Mother and Child Health services. The QR code is linked with beneficiary's information and is scanned using the ANMOL application which gets updated in the RCH database. The solution allows registration of beneficiaries at point of service delivery, has provision to track migrating beneficiaries and prevents duplication of beneficiary data at multiple levels in ANMOL. An assessment found the QR code feature to be acceptable among end users- ANMs and saves time (approx. 4-5 minutes) per beneficiary when providing services.

A beneficiary's QR code enabled Mother and Child Protection (MCP) card is scanned via the ANMOL application and updated and post service provision the records are updated and retrieved instantaneously in the RCH database

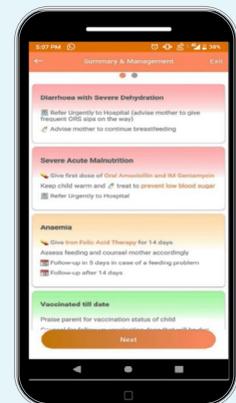


Care at Fingertips...Chatbot (COVID-19, HBNC, HBYC and IMNCI)

Chatbot assists in by providing correct, consistent and contextualized evidence-based clinical decisions to the health care providers. NIPI has developed Chatbots for MoHFW and National Health Mission on Home Based Newborn Care and Home Based Care for Young Child following the approved and in-practice clinical protocols and guidelines.



| | | | |
|---|--|---|---|
| Lethargic or unconscious | Convulsion | Not able to feed/not able to attachment to breast | Baby vomits often |
| Skin pustules 10 or more | Restless and irritated | Any disparity (Bended hands and legs / dry lips) | Movement only when stimulated or no movement at all |
| Dry and wrinkled skin (Slow recovery of skin after pinch) | Cry weak / stopped | Severe chest indrawing | Blood in stool |
| Distended abdomen | Blood coming out of the umbilical cord | Eyes swollen or with pus | None |



Assess baby's signs and symptoms

Apply evidence based algorithms

Summary and management

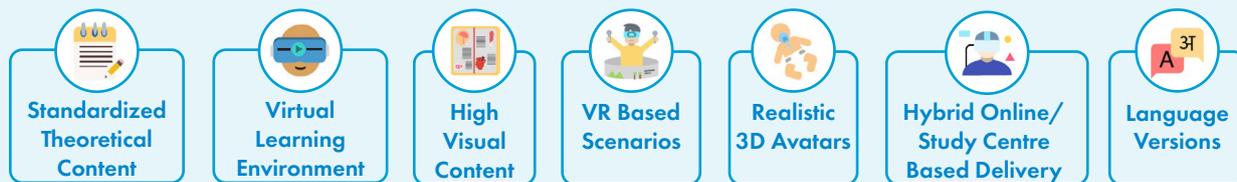
Chatbot interacts with their users instantaneously and guides the health care worker on evidence-based decision from case to case

Virtual Reality Package for Capacity Building

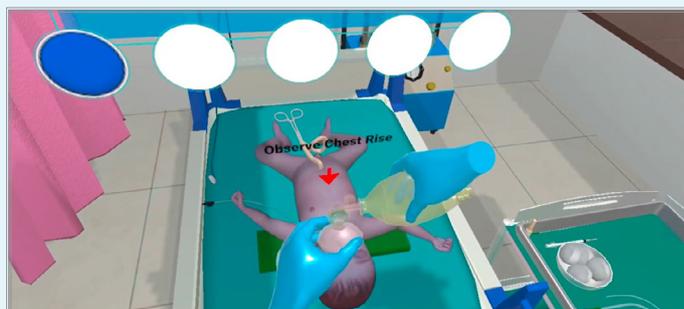
Child Health Division with Technical Support of NIPI has developed a Virtual Reality training package to train healthcare providers on neonatal resuscitation using Virtual Reality. The VR training package allows a healthcare provider to practice in a personalized and self-paced virtual environment simulating nearly all real life scenario to improve their key skills, become competent & confident in managing and saving a Newborn during the crucial "Golden Minute" after birth!



Navjaat Sishu Swasthya Karyakram (NSSK) training package converted into Virtual Reality based interactive sessions for training healthcare providers on neonatal resuscitation



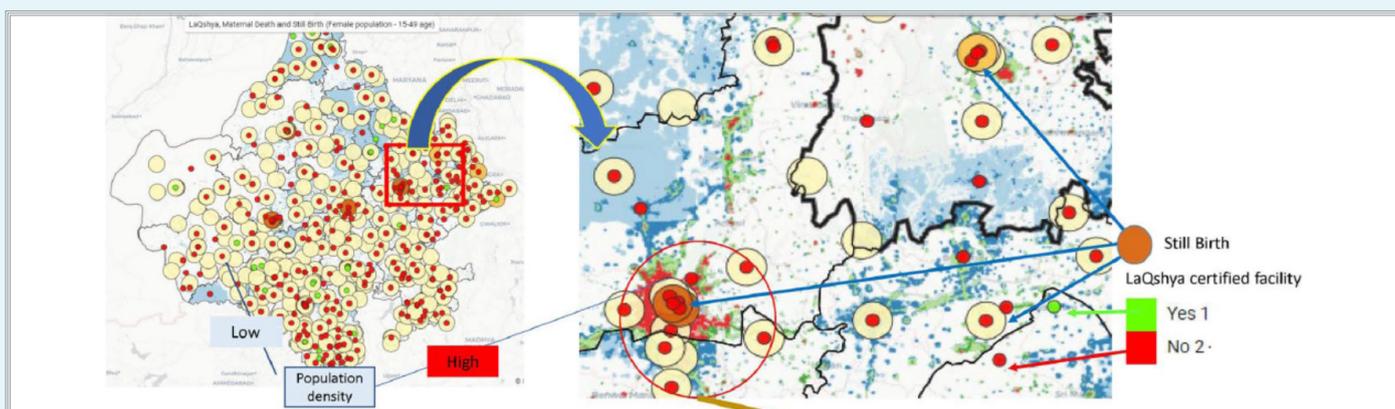
NSSK Training in Virtual Mode



Resuscitation of Newborn with Asphyxia

Geospatial Mapping to Improve Quality of Maternal Health Service Provision

For optimally allocating resources required to achieve Quality of health services, an accurate picture on availability and utilization of health services is imperative. NHM Rajasthan with NIPI's Technical Assistance geo-mapped women population of 15-49 years as well as health facilities (First Referral Units) along with their status of Quality certification and combined it with key indicators (high-risk pregnancies, still birth and maternal deaths) from state's Pregnancy, Child Tracking and Health Services Management System (PCTS) database to run analytics to understand availability, accessibility and Quality of Maternal and Newborn services. Geospatial Mapping has been integrated with Rajasthan Government's PCTS portal.

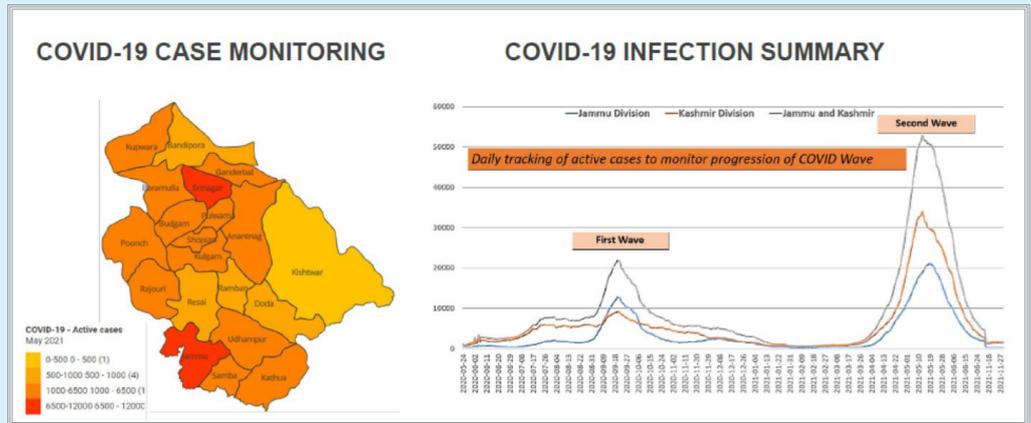


Leveraging DHIS 2 platform for data driven decision making during public health emergencies

Government of Jammu and Kashmir with support from NIPI and University of Oslo (UiO) developed two data visualization dashboards by leveraging DHIS 2 platform:

COVID-19 dashboard:

Information on confirmed, active and recovered cases, deaths, positivity rate, recovery rate, fatality rate, on real time basis, depicting geotagging and clustering of cases along with health system preparedness and timely health response.



Aspirational (Priority) district dashboard: Helps Administrators/Managers to monitor key performance indicators up to block level for timely and focused interventions. The 31 KPIs monitored using aspirational district dashboard, including service provision of antenatal care, delivery and outcomes, child health & nutrition, immunization, tuberculosis and health infrastructure related services.

Leveraging open source platforms for Data Collection and Management

NIPI supported state NHMs in leveraging open source platforms to conduct assessment of knowledge; system health preparedness (Health and Wellness Centers, Special Newborn Care Units and Indian Public Health Standards compliance) as well as designing of decision support system for health workers using Open Data Kit (ODK) platform.

IPHS Assessment H

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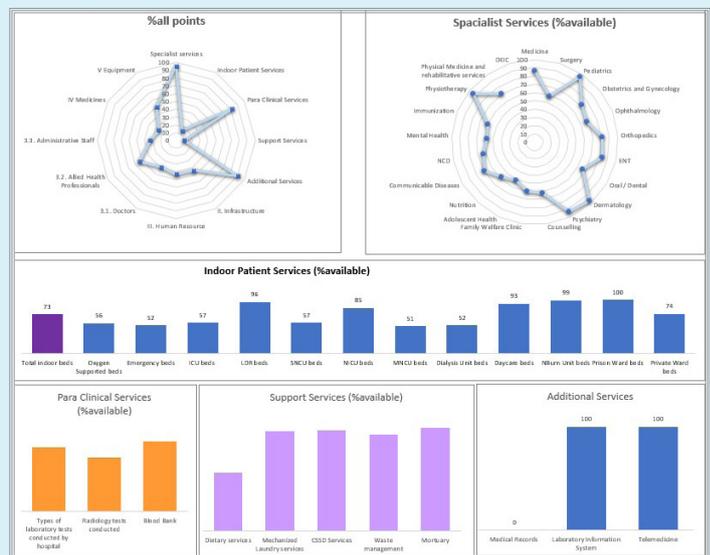
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ODK Collect v2022.3.5

IPHS Facility Dashboard



Norway India Partnership Initiative (NIPI) a Health Initiative between Governments of Norway and India to provide catalytic, strategic and innovative support to National Health Mission at National and State level.

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