

Health Management Information System-HMIS

HMIS (Health Management Information System) is an initiative undertaken under the National Rural Health Mission (NRHM) launched by Government of India. Accurate, relevant and up-to-date information is essential for the health service providers at all levels so that they can initiate action on the gaps in the system, based on evidence and information. Hence Government of India directed all the states to capture data as per the HMIS formats on a web-based system (HMIS) from all facilities. The software application is developed by GOI, and the same portal is being used to upload the data of each facility.

Before HMIS came into existence majority of the health institution (Health Sub-Centers, Primary Health Centre, Community Health Centre etc) data was on paper forms and was aggregated manually at all levels without timelines, which affected the flow of data and lead to delay in reporting and sending timely feedback.

Karnataka is the first state in the country to capture facility wise data from Sub Centre level since August 2010. The data captured will be validated at each level and minimizes the error. Lot of information pertaining to RCH activities are captured under HMIS.

MCTS (MOTHER AND CHILD TRACKING SYSTEM)

The goal of NRHM is to reduce the MMR (Maternal Mortality Ratio), IMR (Infant Mortality Rate) and TFR (Total Fertility Rate) in the State.

Maternal death and infant deaths are occurring due to the lack of service availability for the Pregnant women and child.

To reduce MMR, IMR and TFR in the State each pregnant women and child should be tracked and medical services to be provided on time.

So, to keep track of each pregnant women from registration to delivery and PNC irrespective of registration place and child from birth to full immunization irrespective of birth place, MCTS (MOTHER AND CHILD TRACKING SYSTEM) programme came to existence.

MCTS helps in identification of risks, timely service delivery, planning monthly activities of ANM / ASHA, avoid duplication and effective monitoring of individual case/patient by concerned Health workers / doctors.

To reduce the amount of data entry by the health workers and to capture the real time data, the concept of data entry through mobile SMS is introduced in Karnataka. Based on the LMP date of pregnant women, the MCTS application calculates the workplan and sends SMS to ANM to provide the services to pregnant women and children in her area.

Tracking scenario :

Health Worker identifies the Pregnant Women in her area and issues the Mother Card, After issuing Mother Card, the pregnant woman details is filled by health worker, detached and sent to concerned health facility for computerization on MCTS portal. Health worker receives regular SMS, from MCTS portal (server) to follow up the pregnant woman and provide the services that are due to her. SMS is sent through customized mobile to MCTS portal for the services provided by the Health worker to the pregnant women. Soon after delivery, child part is detached from Mother card and sent to concerned health facility for computerization. The health worker receives SMS from MCTS portal to follow up the Child and provide the immunization services. The health worker provides the service and SMS to MCTS portal using customized mobile.

Benefits of integrating Mobile Application to MCTS :

- Service codes readily available on customized mobile to send SMS for the service provided (useful for low educated field workers).
- Real time data available on MCTS portal.
- Pregnant women will get SMS on her mobile for the services she is due for during pregnancy and also for child immunization after delivery.
- Health worker will get alert SMS to provide the services to pregnant women and children in her area.
- Medical officers will get alert SMS on their mobile to monitor pregnant women in case of high risk pregnancies, complicated pregnancies, maternal death, child death, still birth etc...
- Senior Officers will get SMS everyday regarding the progress of MCTS.

Presently Pregnant women and child details is captured from all the institution of the State.

All the pregnant women and children details in the State is captured from January 2011. 32 lakhs Pregnant woman and 16 lakhs Children registered in MCTS application from inception to November 2014.

All the officers and field workers of Health department are trained on MCTS to track the pregnant women and child, provide required services to them and monitor the beneficiaries.

The customized application of MCTS developed in association with NIC, Bangalore has been recognized in the international forum and awarded the “Top 11 in 2011 Innovators challenge award” instituted by ROCKEFELLER FOUNDATION and m-Health Alliance of America, and the Award certificate was given on December 4th 2011 at Washington DC, United States.