



AHI eSupervision System and HI eSupervision System for Assistant Health Inspector and Health Inspectors

With support from USAID, MEASURE Evaluation, icddr,b, the MaMoni Health Systems Strengthening (HSS) Project and the Systems for Improved Access to Pharmaceuticals Services (SIAPS) Project have been providing technical assistance to the Management Information System (MIS) units of the Directorate General of Family Planning (DGFP) and Directorate General of Health Services (DGHS) to strengthen their Routine Health Information Systems (RHIS) through the electronic MIS (eMIS) Initiative. As part of this, paper-based documents used by Assistant Health Inspectors (AHIs) and Health Inspectors (HIs) have been converted into electronic apps known as the 'AHI eSupervision System' and the 'HI eSupervision System' using digital technology. The AHIs and HIs are based in a union and are responsible for inspection and supervision of the work of carried out by Health Assistants (HAs). After the successful implementation of these apps in Tangail district, they are now being scaled up nationally



Coverage (Ongoing and scale-up)

7 Districts

53 Upazilas

Approximately 3.4 million households

Approximately 15.4 million population (under digital service)

More than 950 users (AHI & HI)

What is the AHI eSupervision system and HI eSupervision system?

The Assistant Health Inspector supervises and coordinates the activities of Health Assistants (HAs). There are similarities of work between the AHI and HI, however, the HI also supervises the work of an AHI. They work under the Upazila Health Complex, an upazila level health facility of DGHS. They are accountable to the Upazila Health and Family Planning Officer (UHFPO). The AHIs are required to visit households visited by HAs and to check if service delivery and data collection guidelines and instructions have been followed during their interaction with clients. These activities have been converted into a digital system and can be recorded on a mobile device onsite by the AHI through the AHI eSupervision system and HI eSupervision system. These eSupervision systems are android-based mHealth applications.

How do AHI eSupervision and HI eSupervision work?

The AHI eSupervision system has the following functions: approval of HA advance work plans, supervision of HA monthly activities, verification of information collected by the HA. The routine data collected by the HA on immunization, maternal and child health, and births/deaths can be verified by the AHI through this system.

The HI eSupervision System allows the HI to perform tasks in relation to EPI session inspection, approval of AHI workplan, etc.

Before performing such tasks, the AHIs/HIs need to download relevant data from the server database using the internet. They can work offline with downloaded data. Finally, AHIs/HIs can prepare their own work plans and submit them to their supervisor, the Upazila Health and Family Planning Officer.



Components of AHI and HI eSupervision System

Approval of HA advance work plans

Usually there are three HAs in a union. HAs are supervised by an AHI. The HAs are required to submit a work plan for approval by the AHI prior to the commencement of every month. All work plans are downloaded from the server for review. The AHI can approve the work plan or suggest modifications which need to be addressed by the HA and re-submitted for approval.

Verification of data

The AHI app allows the AHI to verify the data collected by the HA, such as personal and demographic data collected through the Population Registration System including data on socio economic variables, pregnant women and children. The AHI is required to check data accuracy and provide feedback to the FWA.

Submission of AHI advance work plan

AHIs are required to submit their own advance work plans to the UHFPO for approval. This Advance Work Plan tool allows the HI to submit the workplan to the UHFPO for approval. The UHFPO can approve the work plan as is or suggest modifications. After any modifications, the work plan has to be re-submitted for approval.

Inspection following IPC

One of the key activities of the AHI is to inspect households to see whether the HA visited the household and provided sufficient information on immunization activities during IPC campaigns. These visits include discussions with household members on the visit by the HA, dissemination of vaccine information, and whether a vaccination card was given (yellow for child and green for woman).

Monitoring the status of HA advance work plans

The AHI is able to monitor the status of HA workplans, provided data is uploaded by the HA.

Session inspection

AHIs are required to inspect EPI Centers or Satellite Clinics during immunizations. Using the AHI app, the AHI can find out who is present (e.g. HA, FWA, Vaccinator, etc.). The AHI can check the availability of registers, cards, and tally books and AEFI report books, and physically verify that items necessary for immunization such as vaccine, AD syringe, mixing syringe, BCG mixing syringe, safety box, Vitamin A Capsule (red), Vitamin A Capsule (blue), are available. The AHI can examine whether ice packs are conditioned properly or not. The AHI can also examine the vaccine carrier to check if the cold chain is maintained properly for the vaccine/diluent (BCG, Penta, Polio, PCV, IPV, MR and TT). A checklist on all observations is available in the eSupervision system.



The picture shows an 'Advance Workplan' based on the typical monthly activities, submitted by an HA to an AHI which is visible in the AHI eSupervision system.

Advance Workplan may be changed in view of program or other activities

তারিখ	কর্মসূচী
01/12/2016	Coordination Meeting at UP on Health Education
03/12/2016	Attend Monthly Meeting at UHC
04/12/2016	Submit Monthly Report
05/12/2016	Inspect School
06/12/2016	Inspect IPC work at union - Kashi, Ward-1, village-Bangra,Para,-Total houses(1-20)
07/12/2016	Visit School
08/12/2016	Participate in National Program
10/12/2016	Participate in Training
11/12/2016	Monthly Meeting at UHC

The English texts are representation of app interface in Bengali

Home Visit (fill in by asking the woman/guardian)

G R / Holding

When did the HA/Vaccinator last visit this household? 21

During the last visit, which of the following issues relating to EPI were discussed by HA/Vaccinator?

- BCG - effective for TB
- Penta - prevent five diseases
- Polio - Prevents Polio disease
- Measles - Prevents measles
- TT- Prevents Tetanus

Does the guardian know where and on which date next dose would be given? 1-হ্যাঁ 2-না

The English texts are representation of app interface in Bengali

The AHI uses a checklist during a visit to a household to verify the activities of an HA on IPC during his/her visit. For example, an AHI may want to review the information given by an HA on the different types of vaccines.

In an EPI session, the HA is required to carry some essential books. Using this app, an AHI can verify whether these items were available or not during EPI sessions.

Are the following books and cards available?

Child Register	<input checked="" type="radio"/> 1-হ্যাঁ <input type="radio"/> 2-না
Women Register	<input checked="" type="radio"/> 1-হ্যাঁ <input type="radio"/> 2-না
EPI Card (Children)	<input checked="" type="radio"/> 1-হ্যাঁ <input type="radio"/> 2-না
EPI Card (Women)	<input checked="" type="radio"/> 1-হ্যাঁ <input type="radio"/> 2-না
Tally Book	<input checked="" type="radio"/> 1-হ্যাঁ <input type="radio"/> 2-না
AEFI Report Book	<input checked="" type="radio"/> 1-হ্যাঁ <input type="radio"/> 2-না

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