User Manual of mHealth Application

VIA Screening and Necessary Treatment
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Preface

This user manual provides step-by-step instruction about operational guideline of mHealth System. mHealth System has been developed to increase operational efficiency and improve the quality of healthcare service.

Objective

The objective is to develop clear understanding of mHealth system usage for day-to-day operations. Each section begins with an overview then presents step-by-step details of how to perform a particular task, which will help the users finding information quickly and recall things faster.

Audience

This guide is primarily directed to the Community Health Worker (CHW) and their direct supervising authority. It is also helpful to helpdesk executives or system support personnel. It assumes that the user has a basic working knowledge of Android Mobile Phone operating system and Community-based healthcare Program. Experience in similar software is helpful but not required.

How to Use This Guide

For the users approaching mHealth for the first time, this guide is best read linearly. You can have clearer understanding if you spend a few times reading this manual together with operating the mHealth application.

Special Features

Each chapter begins with a summary of features it covers, as in the following example. **Bold faces** are used to distinguish user interface (screen) and button names. *Italics* are used to attract special attention to important terms.

For More Information

The most current update of this guide will be available at the Application Development unit of Friendship Bangladesh. For more information on any topic, please do not hesitate to contact us through email. Best wishes in exploring this guide and mHealth System.
Friendship mHealth System

Chapter objectives

After studying this chapter, we should be able to:

- How to access VIA screening service
- How to perform VIA screening service

VIA Screening and Necessary Treatment

A VIA test user of mHealth web application works in a specific referral center where a VHT refers HPV-positive patients to a specific referral center for VIA testing and providing test results and treatment.

1. **How to access VIA screening service of the application**

   Access this url [https://prescriptec.urdt.net](https://prescriptec.urdt.net) in your browser and login with the correct login id and password. After a successful login, a list of HPV +ve cases of beneficiaries would be here who are referred by VHT.

2. **Copy AI-DSS folder into computer:**

   VIA screening information record into EMR starts after completing VIA test by paramedic. VIA is done with support of AI-DSS module (*AI-DSS module is a third-party software application runs in designated mobile device*). When VIA process is complete, AI-DSS module automatically generates a folder for every patient case.

   Connect the AI-DSS device with computer/ laptop by USB cable.

   Explore desired AI-DSS folder in mobile storage drive from computer screen

   Copy the folder and paste it in computer storage drive (recommended to define a dedicated parent folder named ‘PRESC_AI-DSS’ to store all generated folders under it)
3. VIA Screening and Necessary Treatment

A list of referred cases by VHT is waiting as patient cases at the user end of VIA test referral center.

A patient case is followed with three statuses (New, Open and Close)

<table>
<thead>
<tr>
<th>Status</th>
<th>Benef. code</th>
<th>Benef. name</th>
<th>Service Ref.</th>
<th>Disease module</th>
<th>Interview time</th>
<th>Waiting for</th>
<th>FCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>020105021-47501</td>
<td></td>
<td></td>
<td></td>
<td>7 days interview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Close</td>
<td>020105021-47361</td>
<td></td>
<td></td>
<td></td>
<td>2 day ago</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Status ‘New’ indicates the case is not open yet.

Status ‘Close’ means the VIA service information is saved.

Status ‘Open’ means that the case is opened by clicking/ tapping on the link.

It is to be ensured that the VIA test user must complete the VIA test with the support of the AI-DSS module for the beneficiary before opening her (beneficiary) case.

Now open a case by clicking on a 14-digit beneficiary code link of ‘Benef.code’ column.
Tick box which is consent from the beneficiary before treatment.

Enter 4-digit random number- it’s the middle section 4 digit in a generated folder name.

Now save this case clicking on ‘Save’ button.

It’s turn to record VIA service information into system.

Click on beneficiary code link- be sure for your desired case by checking Service Ref number in case list with folder name in computer storage.
Mark ‘tick’ box which implies that consent has been obtained from the beneficiary

Define service date- automatically set as current date

Upload picture of all the cervix before VIA –

   Click on ‘Choose File’- a file section dialog will open
   
   Explore to your desired AI-DSS generated folder
   
   Select image file that end with _B
   
   Click ‘Open’ button on the dialog window

Select the option of squama columnar junction (SCJ) visible.
Now upload the AI assessment file from computer.

Click on ‘Choose File’ - a file section dialog will open

Explore to your desired AI-DSS generated folder

Select .txt file

Click ‘Open’ button on the dialog window

Now you’ll see following four fields are automatically set in the form:

- AI image ID
- AI assessment (SCJ visible)
- Health worker observation after VIA (SCJ visible)
- Result based on the AI-DSS decision tree result & HW observation
Now upload the picture of all the cervix after VIA from computer.

Click on ‘Choose File’- a file section dialog will open

Explore to your desired AI-DSS generated folder

Select image file that end with _A

Click ‘Open’ button on the dialog window

Now upload the diagnosis reference file from computer.

Click on ‘Choose File’- a file section dialog will open

Explore your desired AI-DSS generated folder

Select image file that end with _ID

Click ‘Open’ button on the dialog window

In this case ‘Follow up with counselling’ is set automatically against the field ‘management made by the health worker’ based on AI-DSS decision tree result & HW observation.

And the system automatically set a date as the next follow-up date to beneficiary by CHW. VIA test user can edit/change this follow-up date using the calendar icon beside.

Finally, click on ‘Save’ button to finish the service record entry. This patient is treated as VIA negative.

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Record of positive case

Alternatively, when a case is found for VIA positive result, saving options will be followed as below:

This document sub-section starts from AI assessment option- assuming *before image* and other fields are set as previously defined.

Note that the file name must be different for each beneficiary as per service record.

Upload the AI assessment file from computer.

Click on ‘Choose File’- a file section dialog will open

Explore your desired AI-DSS generated folder

Select .txt file

Click ‘Open’ button on the dialog window

Now you’ll see following four fields are automatically set in the form:

- AI image ID
- AI assessment (SCJ visible)
- Health worker observation after VIA (SCJ visible)
- Result based on the AI-DSS decision tree result & HW observation
Now upload picture of all the cervix after VIA from computer.

Click on ‘Choose File’- a file section dialog will open

Explore your desired AI-DSS generated folder

Select image file that end with _A

Click ‘Open’ button on the dialog window
Now upload diagnosis reference file from computer.

Click on ‘Choose File’ - a file section dialog will open

Explore your desired AI-DSS generated folder

Select image file that end with _ID

Click ‘Open’ button on the dialog window and follow the next steps to complete service record entry.

Select an option for which of the quadrants of the cervix are involved.

Select an option that management made by the health worker (after own assessment & getting AI result)

Set the number in field against how many applications were done if the patient received thermal ablation.

Select an option of any complication during getting the treatment.

In this case, the system will automatically set a date as the next follow-up date. VIA test user can edit/change this follow-up date using the calendar icon beside.

Finally, click on ‘Save’ button to finish the service record entry. This patient is treated as VIA positive.

Steps of beneficiary’s service information entry may vary due to variations of medical records.
Record of case which needs expert opinion

Service Expert user needs to login into this web application https://prescriptec.urdt.net with login id & password.

After successful login the Service Expert user gets a list of cases referred for second opinion.

Now click on 14-digit beneficiary code link. Interview detail, feedback by VIA test user and uploaded image is visible here for second-opinion user to make right decision. Expert user will enter his/her opinion in this screen.

To see enlarged image, click on an image poses right side of this screen.
Now select an option against the field ‘second opinion by expert’. This option is treated as the decision of second opinion.

Click on ‘Save’ button.

**Remaining service information by VIA test user after expert opinion**

Now VIA test user needs to go back to the interview list and reopen this case to complete the service record entry. In this stage, the VIA test user gets the feedback of second opinion in the field against ‘Second opinion by expert’ as preset that is not modifiable.

Now complete the rest inputs as previously shown.

Click on ‘Save’ button to finish the input process for this beneficiary.
Email notification for VIA test result

VIA test result is shared through email automatically from system upon saving the record by VIA user. When clicking on ‘Save’ button after completing input of service record of each beneficiary, an email will be delivered to defined email id. This email contains VIA test result, test date and related information of the beneficiary that will be sent as email notification to the defined recipients.

A sample template of email is given below.

Dear Concern,
Please find the VIA test result info for **KBP6000-NOV2022-RN002** below.

Beneficiary : KBP6000-NOV2022-RN002, 02010101-01201, 31y
Test result : **Second opinion needed**
Test date : 2022-11-30
Test center : Masaka HC III

Regards,
mHealth

*This is an auto-generated email, which does not need reply.*

End of document