



Ministry of Health & Family Welfare
Government of India



USER MANUAL

National Viral Hepatitis Control Program Management Information System (NVHCP – MIS)

Release 1.0



Acknowledgement

Monitoring and Evaluation framework is the backbone of any program and success of the program is dependent on its robustness. Under the National Viral Hepatitis Control Program (NVHCP), one of the key strategies is a web based Management Information System (MIS). Based on the patient flow, a web and android application has been developed so that all stakeholders involved in managing the activities of NVHCP can fill in the information directly into the software. It is envisaged that the entire recording and reporting system is paperless through this computerised data management system for users to capture clinical records of patients in a systematic way, based on standardised formats.

This manual has been formulated to guide step by step use of the application. This will enable all users working for the program to understand how to begin and complete a patient record, access data captured under the program and share automated data dashboards and reports.

The program division is immensely grateful to the Hon'ble Minister, Ministry of Health and Family Welfare, Dr Harsh Vardhan for supporting the program. We are also indebted to the Hon'ble Minister of State, Shri Ashwini Kumar Choubey for his guidance and the Secretary Health and Family Welfare, Smt. Preeti Sudan who has stood like a pillar of support and strength throughout the journey of the program. The program division would also like to acknowledge the contribution of the Additional Secretary & Mission Director Shri Manoj Jhalani and Joint Secretary Shri Vikas Sheel who have painstakingly helped in providing inputs for developing the web and android applications and formulating the user manual. A special mention to the NIC team for have helped in hosting the web and android application on the NIC server with full verve and enthusiasm.

NVHCP team is highly grateful to all the resource persons of the working group of Monitoring and Evaluation for guiding the program in developing the monitoring and evaluation framework. We are also thankful to the experts of the IT subgroup for providing key inputs in digitalising the framework. The program division would also want to acknowledge the tremendous efforts of the partner agencies including Clinton Health Access Initiative and the country office of the World Health Organisation, who have worked tirelessly to contribute technically towards bringing about this software and user manual within a short time frame.

This is a great reflection of the importance that is attached to the united commitment of the all stakeholders in the country to reduce the morbidity and mortality associated with hepatitis. The program is confident that this web and android based application will be hugely beneficial to the service providers, program implementers and provide meaningful data to the policy makers.

Acronyms

APRI	AST to Platelet Ratio Index
AST	Aspartate aminotransferase
AST (ULN)	Aspartate aminotransferase (Upper limit of normal)
CKD	Chronic Kidney Disease
EGFR	Estimated Glomerular Filtration Rate
HBV (or Hep-B)	Hepatitis-B
HCV (or Hep-C)	Hepatitis-C
MTC	Model Treatment Centre
NVHCP	National Viral Hepatitis Control Program
NVHMU	National Viral Hepatitis Management Unit
OPD ID	Out Patient Department Identifier
PPP	Public-Private Partnership
SVHMU	State Viral Hepatitis Management Unit
SVR	Sustained Virologic Response
TC	Treatment Centre
UID (or NVHCP ID)	Unique Identifier
VL	Viral Load

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Index for various pages of application:

Sr No.	Screen	Screen name	Use	Page no.
	1	Registration homepage	Add new record or edit existing records.	13
A	2.1 – 2.4	Patient registration	Enter patient registration information such as name, address, gender, etc.	16 – 19
B	3.1 – 3.2	Screening	Enter screening information such as date of screening test, result, etc.	19 – 20
C	4.1 – 4.4	Viral Load	Enter viral load information such as date of viral load test, viral load count, etc.	21 – 23
D	5.1 – 5.5	Testing	Enter testing information such as baseline tests (ALT, AST, etc.) and cirrhosis status.	23 – 25
E	6.1 – 6.4	Known History	Enter known history information such as co-morbidities and referral information.	26 – 28
F	7.1 – 7.2	Prescription	Enter prescription information such as regimen, duration, prescribing doctor, etc.	29
G	8.1 – 8.4	Dispensation	Enter drug dispensation information such as date of dispensation, pills left, etc.	30 – 31
H	9.1 – 9.2	End of Treatment	Enter end of treatment information such as visit date, pills left, etc.	32
I	10.1 – 10.2	Sustained Virologic Response (SVR)	Enter SVR information such as test date, viral load count, etc.	33
J	11.1	Interrupted Patient	Recording interruption status and reasons	34

Index for various pages of web portal:

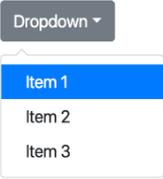
Sr No.	Screen	Screen name	Use	Page no.
	1	Registration homepage	Add new record or edit existing records.	46
A	2.1 – 2.3	Patient registration	Enter patient registration information such as name, address, gender, etc.	48 – 50
B	3.1 – 3.2	Screening	Enter screening information such as date of screening test, result, etc.	51
C	4.1 – 4.2	Viral Load	Enter viral load information such as date of viral load test, viral load count, etc.	52 – 53
D	5.1 – 5.2	Testing	Enter testing information such as baseline tests (ALT, AST, etc.) and cirrhosis status.	54 – 55
E	6.1 – 6.3	Known History	Enter known history information such as co-morbidities and referral information.	56 – 58
F	7	Prescription	Enter prescription information such as regimen, duration, prescribing doctor, etc.	59
G	8.1 – 8.2	Dispensation	Enter drug dispensation information such as date of dispensation, pills left, etc.	60 – 61
H	9	End of Treatment	Enter end of treatment information such as visit date, pills left, etc.	62
I	10.1 – 10.2	Sustained Virologic Response	Enter SVR information such as test date, viral load count, etc.	63
J	11.1 – 11.2	Interrupted Patient	Recording interruption status and reasons	64-65

Data Entry Conventions

1. Data Entry Conventions

Field Type

The MIS uses the following field types

Field type	Data entry rules	Example
Alpha-numeric/Text	Both numbers and alphabets allowed	7,Lok Marg
Numeric	Only numbers allowed	7
Alphabetical	Only alphabetical text allowed	Lok Marg
Date	Only date entry allowed	20-05-2019
Toggle	Single selection among displayed options; selection of an option leads to further fields linked to selection made	
Drop-down	Single selection among multiple options in drop-down format	
Check-box	Single selection among multiple options	
Check-list	Multiple selection among displayed options	
<field>*	A field with a * mark has to be compulsorily filled with required information	Name*: _____ i.e. the 'Name' of the person has to be mandatorily entered

Android Application

User Manual Guide



1.

How to access the application and login?

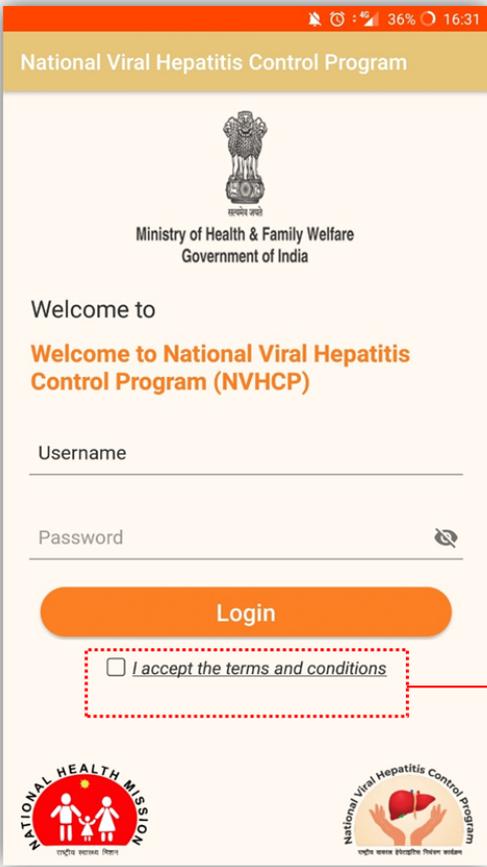
1. Accessing the App

NVHCP - MIS App can be accessed using an android smart-phone or tablet with android version 6.0 and above. The android version of a smart-phone or tablet can be checked in the settings section.

The app can be downloaded from google play-store or via <http://nvhcp.gov.in/>. A link to the application will be provided upon data hosting on NIC server.

2. First Page of the System/Log-in Page

The first page of the system can be accessed by downloading and installing the app. The page opens and looks like the following:

Patient registration home	Option	Description
	Username	<ul style="list-style-type: none"> • Enter username
	Password	<ul style="list-style-type: none"> • Enter password
	Login	<ul style="list-style-type: none"> • Click login after entering above details
	T&C checkbox	<ul style="list-style-type: none"> • Select checkbox to accept terms and conditions

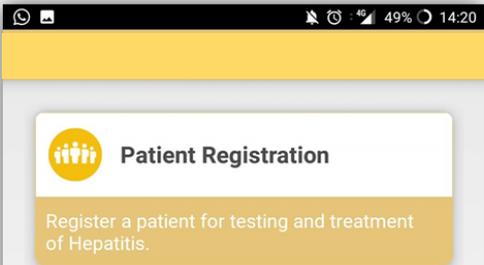
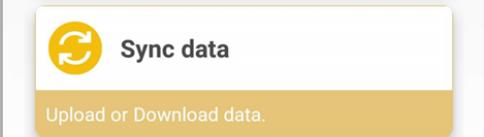
Steps for logging in:

- Enter "Username" provided by NVHCP (NVHMU/SVHMU) which will be unique for each user
- Enter "Password" provided by NVHCP (NVHMU/SVHMU); password cannot be changed by the user
- Select checkbox – "I accept terms and conditions"
 - To view terms and conditions (listed below), click on the hyperlinked text
 - Terms and conditions

- i. I will make the entries myself
 - ii. I will not intentionally enter incorrect data
 - iii. I will ensure the data which I have access to is kept confidential at all times
 - iv. I will not share the data I have access to with anyone in any format
 - v. I will complete my work on time and diligently
- d) Click on “Login” to enter the App

3. Home Page

Following page will appear after logging-in:

Homepage	Option	Description
	Patient registration	<ul style="list-style-type: none"> • Use this option to register a new patient or edit registration information of existing patients
	Testing information	<ul style="list-style-type: none"> • Use this option to edit testing information of existing patients
	Treatment information	<ul style="list-style-type: none"> • Use this option to edit treatment and drug dispensation information of existing patients
	Syncing data	<ul style="list-style-type: none"> • Use this option to download or upload data to and from the database

When initiating data entry, data downloading may be required by the user. Rules for data downloading are detailed in section 3 of this document – “How to download or upload data”.

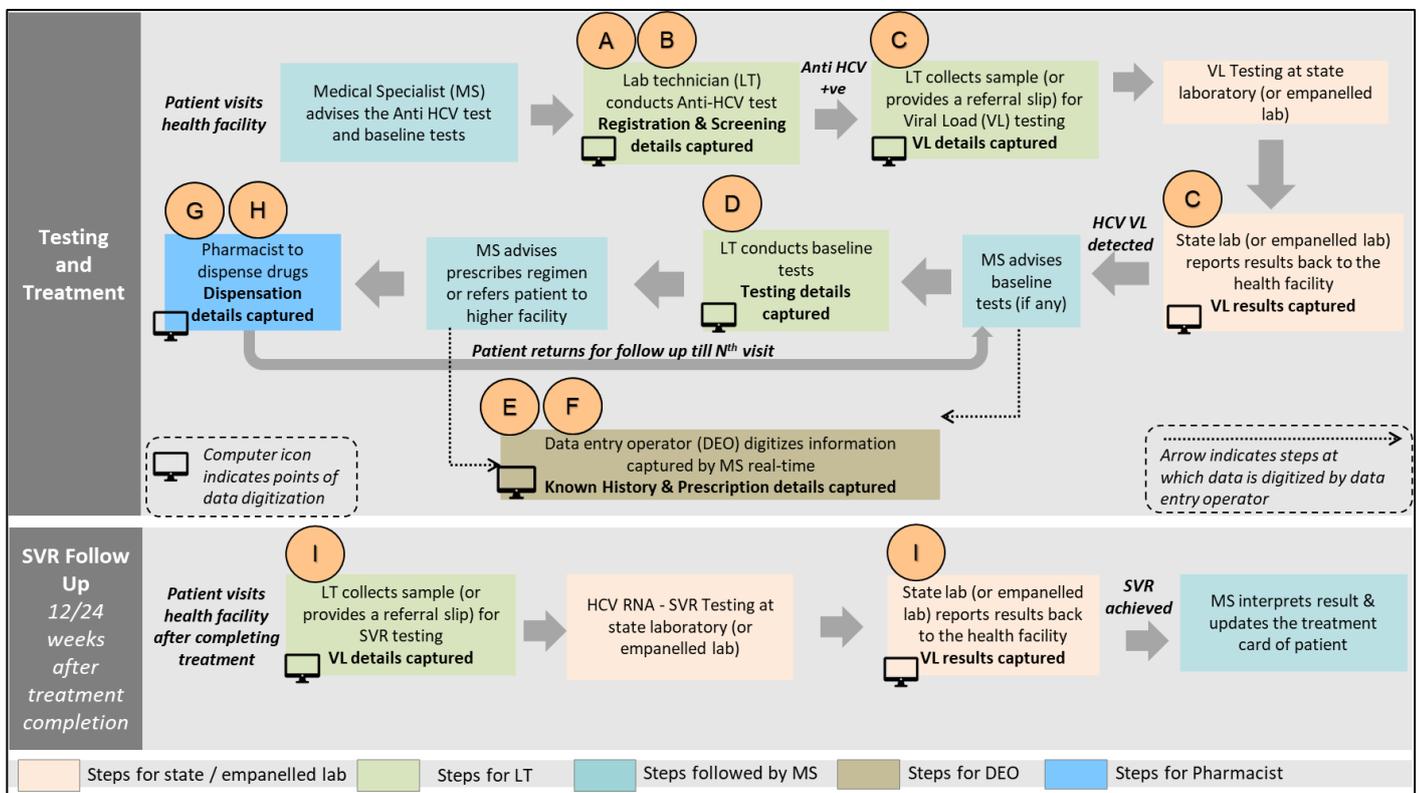
2.

How to create a new patient record or view/add information to an existing patient record?

1. Index for navigating various screens of the application:

Sr No.	Screen	Screen name	Use	Page no.
	1	Registration homepage	Add new record or edit existing records.	13
After clicking on "Add new patient" on registration homepage				
A	2.1 – 2.4	Patient registration	Enter patient registration information such as name, address, gender, etc.	16 – 19
B	3.1 – 3.3	Screening	Enter screening information such as date of screening test, result, etc.	19 – 20
C	4.1 – 4.4	Viral Load	Enter viral load information such as date of viral load test, viral load count, etc.	21 – 23
D	5.1 – 5.5	Testing	Enter testing information such as baseline tests (ALT, AST, etc.) and cirrhosis status.	23 – 25
E	6.1 – 6.4	Known History	Enter known history information such as co-morbidities and referral information.	26 – 28
F	7.1 – 7.2	Prescription	Enter prescription information such as regimen, duration, prescribing doctor, etc.	29
G	8.1 – 8.4	Dispensation	Enter drug dispensation information such as date of dispensation, pills left, etc.	30 – 31
H	9.1 – 9.2	End of Treatment	Enter end of treatment information such as visit date, pills left, etc.	32
I	10.1 – 10.2	Sustained Virologic Response (SVR)	Enter SVR information such as test date, viral load count, etc.	33
J	11.1	Interrupted Patient	Recording interruption status and reasons	34

2. Information flow for entering the above details:



Above data flow may vary among facilities depending upon availability of HR and infrastructure

3. Creating a new record or view/add information to an existing record

After clicking on patient registration on the home page, you will be able to view the patient registration page, as shown below:

1

Patient registration home	Option	Description
	<p>Add new patient</p> <p>Search by UID or phone #</p> <p>Search by status</p>	<ul style="list-style-type: none"> • Use this option to add a new patient record • Use this option to search for a patient record by UID • Use this option to search for all patient records having a particular status
<p>Shortlisted records will be displayed here</p>		

Steps for adding a new record or editing an existing record

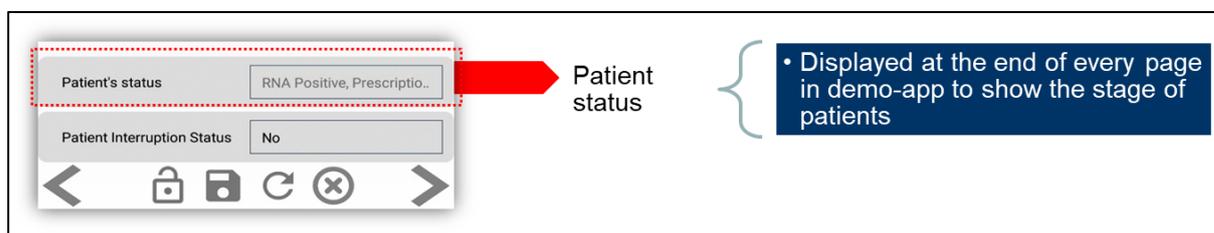
- a) Click on “Add new patient” to initiate the data entry for a patient
- b) For editing existing records, following options can be used:
 - a. If you know the NVHCP ID or phone number of a particular patient, then enter the same in the space provided below “Update/Search record by UID/contact number”
 - b. If you want to list down the records for a facility based on the patient status, then select the “Patient status” from the drop-down below “Update/Search patient record by Status”
 - c. Shortlisted records will be displayed in the space highlighted in grey above
- c) Once a record is displayed, click on the record to view or add details

Test and Result page or *Treatment page*, accessible by the homepage, will only have the ‘Search By’ option to find patient records for editing or viewing.

Patient Status’ have been explained below

Patient Status'

Patient's status bar, as shown below, is displayed at the end of every data entry page of the demo-app to guide the user.



The following patient status' appear in the 'Search by Patient Status' option:

Sr. No	Patient status	Situation	Change at
Patient Status' appearing in the Patient Registration Module			
1	Diagnosis Pending	Anti-HCV test yet to be done	Screening page
2	Not infected	Anti-HCV (-) OR RNA (-)	Screening page or VL page
3	Antibody Positive, Confirmatory RNA Pending	Anti-HCV+, RNA test for HCV pending	Screening page
4	RNA Positive, Prescription Pending	RNA+, treatment yet to be prescribed	VL page
5	Treatment Prescribed, Initiation Pending	Treatment prescribed, 1st dispensation pending	Prescription page
Patient Status' appearing in the Test and Result Module			
1	Diagnosis Pending	Anti-HCV test yet to be done	Screening page
2	Not infected	Anti-HCV (-) OR RNA (-)	Screening page or VL page
3	Antibody Positive, Confirmatory RNA Pending	Anti-HCV+, RNA test for HCV pending	Screening page
4	RNA Positive, Prescription Pending	RNA+, treatment yet to be prescribed	VL page
5	Treatment Prescribed, Initiation Pending	Treatment prescribed, 1st dispensation pending	Prescription page
6	Treatment Completed, pending for SVR	Y th * dispensation done, only SVR is pending	End of Treatment page
7	Treatment Incomplete, pending for SVR	If treatment interrupted and SVR prescribed	Nth dispensation page
8	SVR Achieved	HCV RNA not detected	SVR page
9	SVR Not Achieved	HCV RNA detected	SVR page
Patient Status' appearing in the Treatment Module			
1	Treatment Prescribed, Initiation Pending	Treatment prescribed, 1st dispensation pending	Prescription page
2	On Treatment X/Y*	X th dispensation done, X+1 dispensation pending	Nth dispensation page

3	On Treatment 1/3	1st dispensation done, 2nd dispensation pending	1st dispensation page
4	Treatment Completed, pending for SVR	Y th * dispensation done, only SVR is pending	End of Treatment page
5	Treatment Incomplete, pending for SVR	If treatment interrupted and SVR prescribed	Nth dispensation page
6	SVR Achieved	HCV RNA not detected	SVR page
7	SVR Not Achieved	HCV RNA detected	SVR page

*Wherein X refers to the current dispensation and Y refers to the total required dispensations. For e.g., if a patient is recommended a 3 months (12 weeks) regimen, then total required dispensations (Y) will be 3 and if the patient has come for his/her 2nd dispensation (X) then patient status will be 'On Treatment 2/3'.

4. Exploring Page Controls

At the bottom of each patient record page, you will find the following five types of page controls:

Sample	Option	Description
	Close	• Use this option to close the patient record
	Refresh	• Use this option to refresh all information on a particular page
	Save	• Use this option to save the information on a particular page
	Lock / Unlock	• Use this option to unlock a locked page (subject to login based permission)

There are 5 types of page controls on every page:

- a) **Lock/Unlock** - Use this option to unlock a locked page (subject to login based permission)
 - a. To edit previously entered details of a patient, users are only allowed to edit the last saved page and the pages before that are locked
 - b. Details on a locked page can only be edited using the login credentials of the nodal officer of the facility who will have administrative rights
- b) **Save** - Use this option to save the information on a particular page
- c) **Refresh** - Use this option to refresh all information on a particular page
- d) **Close** - Use this option to close the patient record

- e) **Arrows** - Use front/back arrows to navigate between pages

5. Understanding the information provided in this manual

For each data field to be captured by the user, the following information is provided in the sections below to serve as a guide while doing data entry:

- a) **Field use** – Information specifying the use of the field in context to patient specific information
- b) **Field type** – Information specifying the field type as described in the “data entry convention” of this document
- c) **Dependencies** – Information specifying special data entry rules associated with a particular field, for example – some fields need to be filled only if a particular selection has been made in the previous field
- d) **Editable** – Information specifying whether a field can be edited by the user or a field is auto-filled

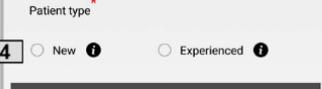
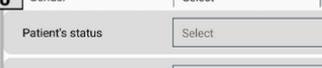
6. Registering a new patient

To register a new patient click on ‘Add a new patient’ on the Patient Registration page to land on the page described below and enter information in *fields #1 to #19*.

Steps for entering registration information

2.1

Patient Registration Page (1/4)

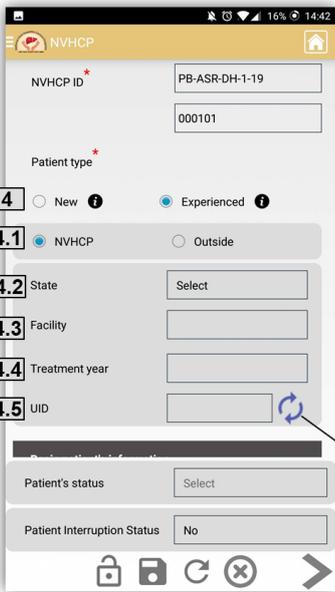
Registration homepage	Field use	Field type	Dependencies	Editable
	1 Record OPD ID	Alphanumeric	None	Yes
	2 Pre-filled UID prefix	Alphanumeric	None	No
	3 Pre-filled UID suffix	Numeric	One greater than the last UID	Yes
	4 Record patient type*	Toggle	None	Yes
	5 Record patient name	Alphabet	None	Yes
	6 Age band selection	Toggle	None	Yes
	7 Record age	Numeric	Auto selection of “in years” or “in months” based on (6)	Yes
	8 Record gender	Drop-down	None	Yes

- a) Enter OPD ID assigned by the hospital in *field #1*
- b) NVHCP Patient Serial Number in *field #3* will be auto-generated
- c) Select Patient Type ‘New’ or Experienced’ in *field #4*

- a. A patient is ‘New’ if he/she has never received treatment for Hepatitis C.
- b. A patient is ‘Experienced’ if he/she has received treatment for Hepatitis C in the past either within the NVHCP programme or outside
- d) Enter the person’s first and last name in *field #5*, ensure that the name matches the name in a government ID, for e.g., Roop Kumari
- e) If age of person is between 0 to 1 years, select ‘yes’ in *field #6*, else skip to *field #7*
- f) Enter age of person in *field #7*
 - a. If person’s age is between 0-1 years (i.e. less than 12 months), enter age in months in numbers, for e.g., 11
 - b. If person’s age is greater than 1 year, enter age in years in numbers, for e.g., 11
- g) Select appropriate gender in *field #8*

2.2

Patient Registration Page (2/4): Registering an experienced patient

Registration homepage	Field use	Field type	Dependencies	Editable
				
<p>4 Below fields will appear only if “Experienced” is selected in patient type:</p>				
4.1	Record past treatment source	Toggle	Only if “Experienced” in (4)	Yes
4.2	Record past state	Drop-down	Only if “NVHCP” in (4.1)	Yes
4.3	Record past facility	Drop-down	Only if “NVHCP” in (4.1)	Yes
4.4	Record past year	Drop-down	Only if “NVHCP” in (4.1)	Yes
4.5	Record past UID suffix	Numeric	Only if “NVHCP” in (4.1)	Yes
<p>Click “sync” button to import patient data from past NVHCP UID to expedite data entry</p>				
<p>Important points to note for “Experienced” patients:</p> <ul style="list-style-type: none"> • Those patients who have prior exposure to Viral Hepatitis-C treatment will fall under this category • Past treatment information will be automatically filled if the sync option is used 				

- h) If the patient is ‘Experienced’, enter past treatment details in fields *#4.1 - #4.5*, if available, else move to *field #5*

2.3

Patient Registration Page (3/4)

Registration homepage	Field use	Field type	Dependencies	Editable
	9 Record Guardian's name	Alphabet & Drop-down	Choose guardian type from drop-down	Yes
	10 Record street address	Alphanumeric	None	Yes
	11 Pre-filled state	Drop-down	Auto-filled through facility login	Yes
	12 Pre-filled district	Drop-down	Auto-filled through facility login	Yes
	13 Record block/ward	Drop-down	Based on district selection	Yes
	14 Record village/town/city	Alphabet	None	Yes
	15 Record Pin-code	Numeric	6 digits only	Yes
	16 Record contact type	Drop-down	None	Yes
	17 Record contact number	Numeric	10 digits only; based on (16)	Yes
	18 Record patient consent	Toggle	None	Yes

- i) Enter a relative name (in the following format <First name> <space> <Last name>, for e.g. Manoj Kumar, in *field #10* and select relation to the relative in *field #9*
- j) Enter complete address in *fields #10 - #15*
 - a. In *field # 10*, enter home and street address in the following format
 <Home Name/Number, Street Name, Landmark, Area Name>

 For e.g., A-32 Sukhda, 11th Road, Near Patwardhan Park, Santacruz
- k) Select contact type, mobile or landline, in *field #16*
 - a. Enter the contact number in *field #17*
 - b. Contact number should only be 10 digits in length without preceding zeroes
- l) Record consent for communication in *field #18*
 - a. User to record consent of the patient for receiving SMS or calls for appointment reminders and counselling related to Viral Hepatitis

2.4

Patient Registration Page (4/4)

Registration homepage	Field use	Field type	Dependencies	Editable
 <p>19 Risk factor</p> <ul style="list-style-type: none"> <input type="checkbox"/> High risk sexual behaviour <input type="checkbox"/> History of IVDU (intravenous drug use) <input type="checkbox"/> Occupation exposure to blood/body fluids <input type="checkbox"/> Needlestick injury <input type="checkbox"/> Child born to HCV-positive mother <input type="checkbox"/> Patient received blood transfusion <input type="checkbox"/> On chronic haemodialysis <input type="checkbox"/> History of surgery <input type="checkbox"/> Patient received organ transplant <input type="checkbox"/> Patient received dental treatment <input type="checkbox"/> Thalassaemic/Haemophilic <input type="checkbox"/> History of receiving injection for therapeutic purposes <input type="checkbox"/> Tattooing <input type="checkbox"/> Other (specify) <p>Patient's status: Select</p> <p>Patient Interruption Status: No</p>	19 Record risk factor	Check-list – Select all that apply	None	Yes

m) Select risk factor in *field #19*

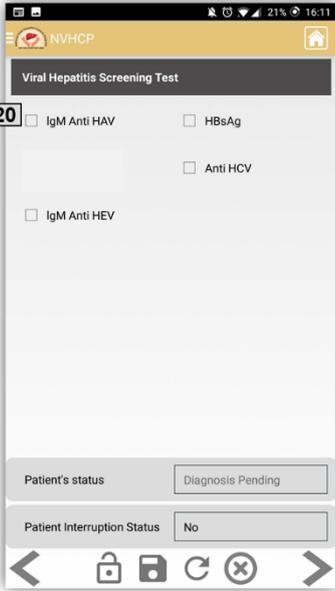
n) Click on “save” button to go the next page

7. Entering Viral Hepatitis Screening Information for registered patients

Steps for entering screening information

3.1

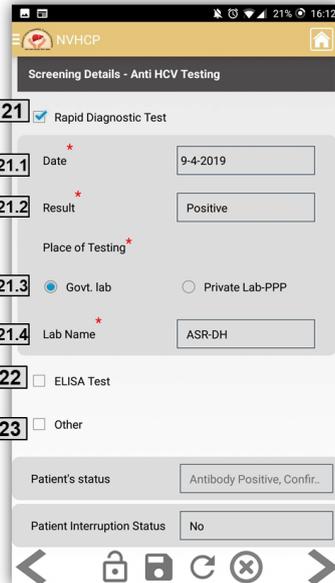
Screening Page (1/3)

Screening homepage	Field use	Field type	Dependencies	Editable
 <p>20</p> <ul style="list-style-type: none"> <input type="checkbox"/> IgM Anti HAV <input type="checkbox"/> HBsAg <input type="checkbox"/> Anti HCV <input type="checkbox"/> IgM Anti HEV <p>Patient's status: Diagnosis Pending</p> <p>Patient Interruption Status: No</p>	20 Record Screening tests conducted	Check-list – Select all that apply	None	Yes
<p>Mapping for screening tests and disease type:</p> <ul style="list-style-type: none"> - IgM Anti HAV > Hepatitis A - HBsAg > Hepatitis B - Anti HCV > Hepatitis C - IgM Anti HEV > Hepatitis E 				

a) Select the tests conducted in *field #20*

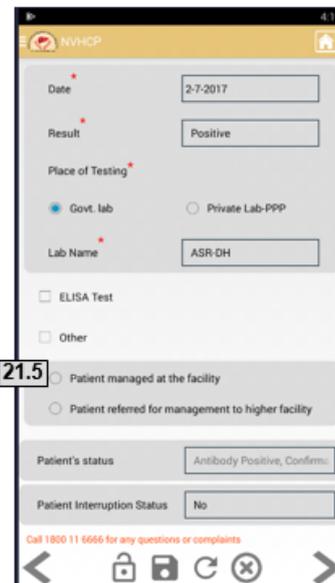
3.2

Screening Page (2/3)

Screening homepage	Field use	Field type	Dependencies	Editable
				
Below fields will appear for each "test" selected in field 20 – "Viral Hepatitis Screening Test":				
21	Record screening test type – Rapid Diagnostic Test	Check-box	None	Yes
21.1	Record screening date	Date	None	Yes
21.2	Record screening result	Drop-down	None	Yes
21.3	Record place of testing	Toggle	None	Yes
21.4	Record lab name	Drop-down	Only if "Govt. lab" in (21.3)	Yes
22	Record screening test type – ELISA test	Check-box	None	Yes
23	Record screening test type – Other	Check-box	None	Yes
<p>Important points to note for Screening page:</p> <ul style="list-style-type: none"> At-least one of the 3 test types – "Rapid Diagnostic Test / ELISA Test / Others" has as to be filled for each selected test such as Anti-HCV, HBsAg, etc. Same information (21.1 to 21.4) described above for Rapid Diagnostic Test will be asked for each selected test type If "23 – Other" test type is selected, option to display "Test name" will appear as a mandatory field 				

3.3

Screening Page (3/3)

Screening homepage	Field use	Field type	Dependencies	Editable
				
Below field will appear when HAV or/and HEV test is 'Positive' in field 21.2				
21.5	Record patient management – for HAV and HEV screening only	Toggle	Only if "Result" is "Positive"	Yes

- b) For each test conducted, select at-least one applicable test type – Rapid Diagnostic Test / ELISA Test / Others
- c) For each test type, say "Rapid Diagnostic Test" in *field #21*, enter information from #21.1 - #21.4 which will remain same for all test types
 - a. For *field #21.3*, if "Govt. Lab" is selected, then *field #21.4* – "Lab name" has to entered using drop-down options

- d) Fill field #21.5 for HAV/HEV testing if the ‘Result’ for any of the tests is ‘Positive’
- e) If “Other” test type is selected, additional field to record “test name” has to be filled
- f) Click on “save” button to go the next page

8. Entering Virologic Load Information for Hepatitis C

Steps for viral load page

4.1

Viral Load Page (1/4)

Viral Load homepage	Field use	Field type	Dependencies	Editable
	24 Record Hepatitis type for entering VL info	Check-box	None	Yes
Click “Re-enter VL data ...” button to re-enter VL sample collection information if the previous sample was rejected				
25 Sample Drawn Date	25 Record sample drawn date	Date	None	Yes
26 Is Sample Stored	26 Record sample storage	Toggle	None	Yes
26.1 Sample Storage Temperature(°C)	26.1 Record sample storage temp.	Numeric	Only if “Yes” in (26)	Yes
26.2 Sample storage duration	26.2 Record sample storage	Toggle	Only if “Yes” in (26)	Yes
26.3 Duration(in days)	26.3 Record sample storage duration	Numeric	Only if “Yes” in (26)	Yes
Important points to note for VL page: <ul style="list-style-type: none"> • Recording time duration of sample storage in “26.3” will depend upon the input in “26.2 – Record sample storage” <ul style="list-style-type: none"> • If 26.2 is “less than 1 day”, then “26.3” will reach as “Duration – in hours” • If 26.2 is “more than 1 day”, then “26.3” will reach as “Duration – in days” 				

- a) Select viral hepatitis type to enter viral load details in *field #24*
 - a. Either or both of 2 options – Hep-C / Hep-B, will be available based on the information added on screening page
- b) For each test selected, say Hep-C, enter sample collection information from *field #25 - #28*
 - a. If *field #26*, “Is sample stored”, is selected as “Yes”, then fields from #26.1 - #26.3 have to be filled

4.2

Viral Load Page (2/4)

Viral Load homepage	Field use	Field type	Dependencies	Editable
	Record sample transport	Toggle	None	Yes
	Record sample transport temp.	Numeric	Only if "Yes" in (27)	Yes
	Record sample transport date	Date	Only if "Yes" in (27)	Yes
	Record facility where sample is transported	Drop-down	Only if "Yes" in (27)	Yes
	Record name of sample transporter	Alphabet	Only if "Yes" in (27)	Yes
	Record desig. of sample transporter	Drop-down	Only if "Yes" in (27)	Yes
	Record remarks (if any)	Alphabet	None	Yes

- c) For each test selected, say Hep-C, enter sample collection information from *field #25 - #28*
 - a. If *field #27*, "Is sample transported", is selected as "Yes", then fields from *#27.1 - #27.5* have to be filled
 - b. Click on "save" to partially save the viral load page till sample collection information

4.3

Viral Load Page (3/4)

Viral Load homepage	Field use	Field type	Dependencies	Editable
	Record sample receipt date	Date	None	Yes
	Record name for sample receipt	Alphabet	None	Yes
	Record desig. for sample receipt	Drop-down	None	Yes
	Record sample acceptance	Toggle	None	Yes
	Record reason for rejection	Drop-down	Only if "No" in (32)	Yes

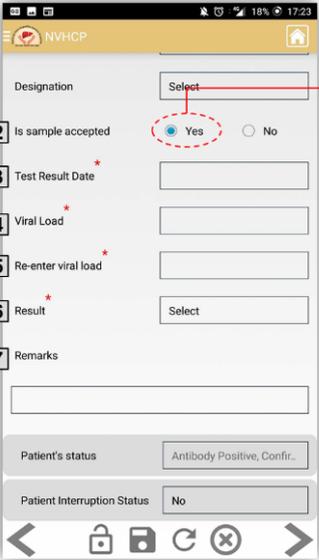
Important points to note for VL page:

- If sample is not accepted in (32), only then will a reason for rejection be asked in (32.1)
- If sample is accepted, subsequent details will have to be entered as detailed on the next page

- d) For each test selected, say Hep-C, enter viral load results information from *field #29 - #37*
 - c. If *field #32*, "Is sample accepted", is selected as "No" then *field #32.1* has to be filled
 - d. Click on "save" to save the viral load page and go to the next page

- e) If sample is rejected via *field #32*, then repeat sample collection may take place; in such a case, click on the blue button “Re-enter VL data” below *field #24* to re-enter the details of new sample collection

4.4 **Viral Load Page (4/4)**

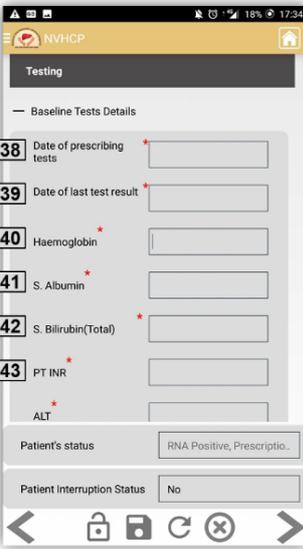
Viral Load homepage	Field use	Field type	Dependencies	Editable
	<p>32 Below details to be captured only is sample accepted is “Yes”</p>			
<p>33 Test Result Date</p>	Record VL test result date	Date	Only if “Yes” in (32)	Yes
<p>34 Viral Load</p>	Record VL count	Numeric	Only if “Yes” in (32)	Yes
<p>35 Re-enter viral load</p>	Record VL count again	Numeric	Only if “Yes” in (32)	Yes
<p>36 Result</p>	Record VL test result	Drop-down	Only if “Yes” in (32)	Yes
<p>37 Remarks</p>	Record Remark (if any)	Alphabet	None	Yes

- f) For each test selected, say Hep-C, enter viral load results information from *field #29 - #37*
 - e. If *field #32*, “Is sample accepted”, is selected as “Yes” then *fields #33 - #37* have to be filled
 - f. Click on “save” to save the viral load page and go to the next page

9. Entering Testing Information for Hepatitis C Patients

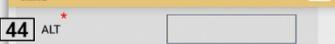
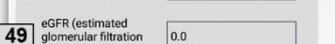
Steps for testing page

5.1 **Testing Page (1/5)**

Testing homepage	Field use	Field type	Dependencies	Editable
	<p>38 Record date of prescribing tests</p>	Date	None	Yes
<p>39 Record date of last test result</p>	Record date of last test result	Date	None	Yes
<p>40 Record Haemoglobin</p>	Record Haemoglobin	Numeric	None	Yes
<p>41 Record S. Albumin</p>	Record S. Albumin	Numeric	None	Yes
<p>42 Record S. Bilirubin (Total)</p>	Record S. Bilirubin (Total)	Numeric	None	Yes
<p>43 Record PT INR</p>	Record PT INR	Numeric	None	Yes

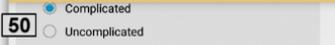
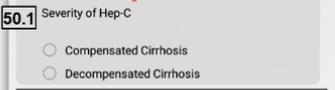
a) Enter Baseline tests details from *field #38 - #43*

5.2
Testing Page (2/5)

Testing homepage	Field use	Field type	Dependencies	Editable
	Record ALT	Numeric	None	Yes
	Record AST	Numeric	None	Yes
	Record AST ULN	Numeric	None	Yes
	Record Platelet Count	Numeric	None	Yes
	Record Weight (in kgs)	Numeric	None	Yes
	Record S. Creatinine	Numeric	None	Yes
	Record eGFR	Numeric	Auto-filled	No
	Record Complicated status	Toggle	None	Yes

b) Enter Baseline tests details from *field #44 - #50*; *field #49* will be auto-calculated based on the details captured above such as age, weight, gender and S.Creatinine value

5.3
Testing Page (3/5)

Testing homepage	Field use	Field type	Dependencies	Editable
	Record Complicated status	Toggle	None	Yes
	Record Severity of HCV	Toggle	Only if "Complicated" in (50)	Yes
	Record Ultrasound details	Check-box	None	Yes
	Record Ultrasound date	Date	Only if (51) is checked	Yes
	Record Fibro-scan details	Check-box	None	Yes
	Record Fibro-scan date	Date	Only if (52) is checked	Yes
	Record LSM value	Numeric	Only if (52) is checked	Yes

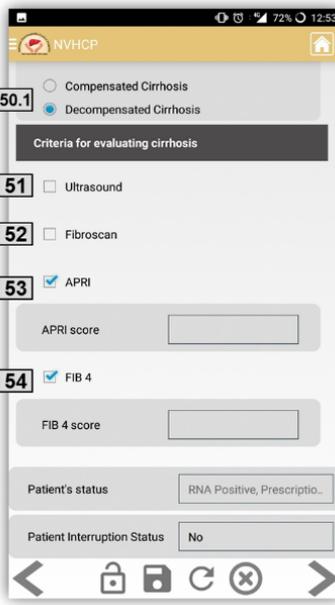
c) Select "complicated status" in *field #50*

- a. If "Complicated" is selected, then severity of Hep-C has to be selected in *field #50.1* as either compensated or decompensated

d) Enter Criteria for evaluating Cirrhosis from *field #51 - #52*

5.4

Testing Page (4/5)

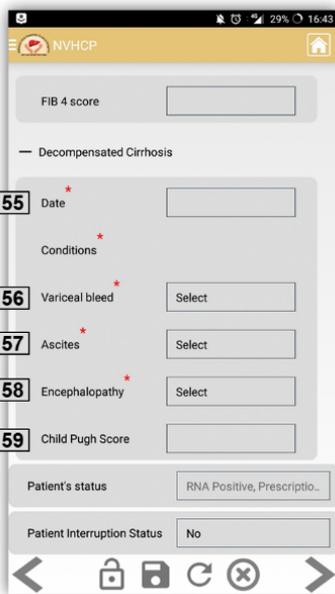
Testing homepage	Field use	Field type	Dependencies	Editable
	50.1 Record Severity of HCV	Toggle	Only if "Complicated" in (50)	Yes
	51 Record Ultrasound details	Check-box	None	Yes
	52 Record Fibro-scan details	Check-box	None	Yes
	53 Record APRI details	Check-box	Auto-filled	No
	54 Record FIB-4 details	Check-box	Auto-filled	No

e) Enter Criteria for evaluating Cirrhosis from *field #53 - #54*

- a. APRI and FIB-4 score in *field #53 and #54* will be auto-calculated using values inputted for AST, AST (ULN), ALT, age, platelet count

5.5

Testing Page (5/5)

Testing homepage	Field use	Field type	Dependencies	Editable
	Below details to be captured only if complicated recorded in (50)			
	55 Record date for cirrhosis evaluation	Date	None	Yes
	56 Record Variceal Bleed	Drop-down	None	Yes
	57 Record Ascites	Drop-down	None	Yes
	58 Record Encephalopathy	Drop-down	None	Yes
	59 Record Child Pugh Score	Alphabet	Auto-filled	No
Important points to note for Testing page: <ul style="list-style-type: none"> • Information on Decompensated or Compensated Cirrhosis (55,56,57,58 and 59) to be recorded only if complicated in (50) • Only if Decompensated Cirrhosis is selected in (50.1), above mentioned fields will be mandatory 				

f) If "Complicated" is selected in *field #50*, then *fields #55 - #59* can be filled

- b. Above fields are mandatory if decompensated cirrhosis is selected and non-mandatory if compensated cirrhosis is selected; *field #59* i.e. Child Pugh Score will be auto-calculated

g) Click on save to save the testing page and go to the next page

10. Entering Known History Information for Hepatitis C Patients

Steps for known history page

6.1

Known History (1/4)

Known history page	Field use	Field type	Dependencies	Editable
	<p>60 Record if treatment experienced</p>	Toggle	Auto-filled based on registration	No
<p>61 Record known co-morbidities (if any)</p>	Check-list – Select all that apply	None	Yes	
<p>62.1 HIV/ART regimen</p>	Record ART regimen	Drop-down	Only if "HIV" selected in (61)	Yes
<p>62.2 Renal/CKD stage</p>	Record Renal/CKD stage	Drop-down	Only if "Renal .." selected in (61)	Yes
<p>Important points to note for Known History page:</p> <ul style="list-style-type: none"> Multiple known co-morbidities can be selected in field (61) If "HIV" and "Renal Impairment" selected in (61), then (62.1) and (62.2) have to be filled respectively 				

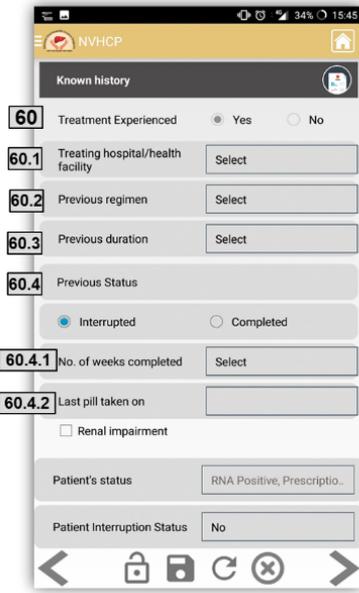
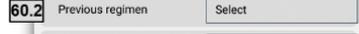
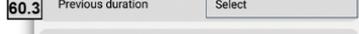
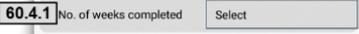
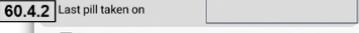
a) Select all known history in the check-list in *field #61*

- a. If "HIV" is selected, then *field #62.1* - HIV/ART regimen has to be filled
- b. If "Renal Impairment" is selected, then *field #62.2* – CKD stage have to be filled
- c. Click on the check box next to *Seizure/Epilepsy*¹ option if the patient is on carbamazepine or phenytoin medication

¹ A seizure is a sudden surge of electrical activity in the brain. A seizure is a single occurrence, whereas epilepsy is a neurological condition characterized by two or more unprovoked seizures.

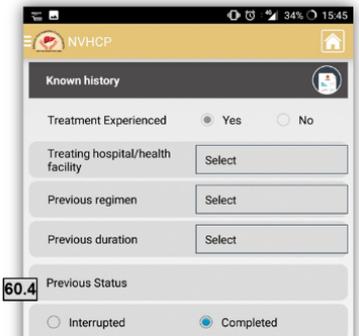
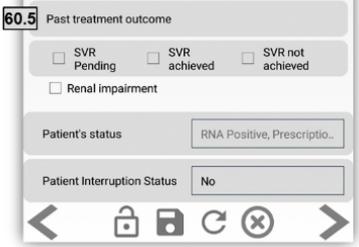
6.2

Known History (2/4)

Known history page	Field use	Field type	Dependencies	Editable
	Record Treatment Experience Status	Toggle	Only if "Experienced" in (4) on registration page	No
	Record treating hospital	Drop-down	If "Yes" in (62)	Yes
	Record previous regimen	Drop-down	If "Yes" in (62)	Yes
	Record previous duration	Drop-down	If "Yes" in (62)	Yes
	Record previous status	Toggle	If "Yes" in (62)	Yes
	Record weeks completed	Drop-down	If "Interrupted" in (62.4)	Yes
	Record last pill date	Date	If "Interrupted" in (62.4)	Yes

6.3

Known History (3/4)

Known history page	Field use	Field type	Dependencies	Editable
	Record previous status	Toggle	If "Yes" in (62)	Yes
	Record past treatment outcome	Toggle	If "Completed" in (62.4)	Yes

b) Field #60 (in *known history (2/4)*), treatment experienced, will be auto-selected based on registration page

- a. If field #60 is Yes, then field #60.1 - #60.4 have to be filled
- b. If field #60.4 is Interrupted, then field #60.4.1 - #60.4.2 have to be filled
- c. If field #60.4 is Completed, then field #60.5 has to be filled

6.4

Known History (4/4)

Known history page	Field use	Field type	Dependencies	Editable
	<p>63 Record Referral details</p> <p>63.1 Record Referring doctor</p> <p>63.2 Record "Referred to" facility</p> <p>63.3 Record Remark (if any)</p> <p>64 Record Observations (if any)</p>	<p>Toggle</p> <p>Drop-down</p> <p>Drop-down</p> <p>Alphabet</p> <p>Alphabet</p>	<p>None</p> <p>Only if "Yes" in (62)</p> <p>Only if "Yes" in (62)</p> <p>Only if "Yes" in (62)</p> <p>None</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

- c) *Field #63* – “Referred” to be selected as “Yes” if patient has been referred to Model Treatment Centre (MTC)
 - d. If *field #63* is “Yes”, then *field #63.1 - #63.3* has to be filled
 - e. If the patient can be referred to more than one MTC in *field #63.2*, the patient should be referred the facility of his/her preference and the preferred facility should be selected from the dropdown options
- d) Additional remarks can be added in *field #64* – Observations
- e) Click on save to save the known history page and go to next page

11. Entering Prescription Information for Hepatitis C Patients

Steps for prescription page

7.1

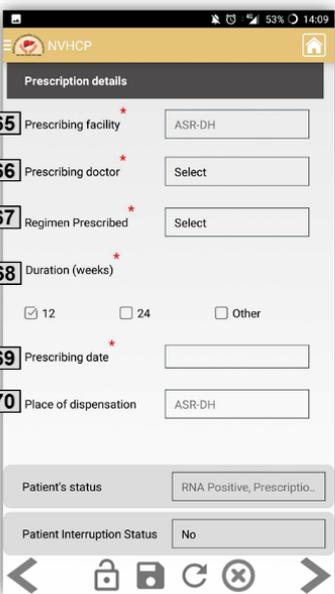
Prescription page (1/2)

Prescription page	Field use	Field type	Dependencies	Editable
				
#65 Prescribing facility	Record Prescribing facility	Drop-down	Auto-filled based on login	No
#66 Prescribing doctor	Record Prescribing doctor	Drop-down	None	Yes
#67 Regimen Prescribed	Record Regimen	Drop-down	None	Yes
#67.1 Sofosbuvir	Record drug-wise strength	Drop-down	Based on regimen selection in (67)	Yes
Velpatasvir				
Ribavirin				
Duration (weeks)				
Patient's status				
Patient interruption Status				

- Record fields from #65 - #70 to capture prescription information of a patient
- Using field #67.1, capture strength of drugs based on selection in field #67

7.2

Prescription page (2/2)

Prescription page	Field use	Field type	Dependencies	Editable
				
#65 Prescribing facility	Record Prescribing facility	Drop-down	Auto-filled based on login	No
#66 Prescribing doctor	Record Prescribing doctor	Drop-down	None	Yes
#67 Regimen Prescribed	Record Regimen	Drop-down	None	Yes
#68 Duration (weeks)	Record treatment duration	Toggle	None	Yes
#69 Prescribing date	Record Prescribing date	Date	None	Yes
#70 Place of dispensation	Record Place of dispensation	Drop-down	Auto-filled based on login	Yes
Important points to note for Prescription page: <ul style="list-style-type: none"> "Place of dispensation" will be "Prescribing facility" by default In case of "Referral" to other facility, "Place of dispensation" can be changed to referred facility (MTC), referring facility (TC) or both 				

- Select duration (in weeks) using field #68; if duration is different from 12 or 24 weeks, then select "Other" option to record the duration
- Select "Place of dispensation" using field #70, which will be auto-filled in case of Treatment Centre (TC)

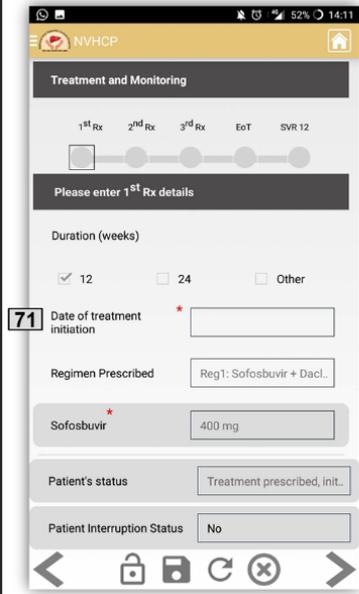
- a. In case of referral to MTC, Place of dispensation can be changed to MTC, TC or both
- e) Click on save to save the prescription page and go to next page

12. Entering Dispensation Information for Hepatitis C Patients

Steps for first dispensation page

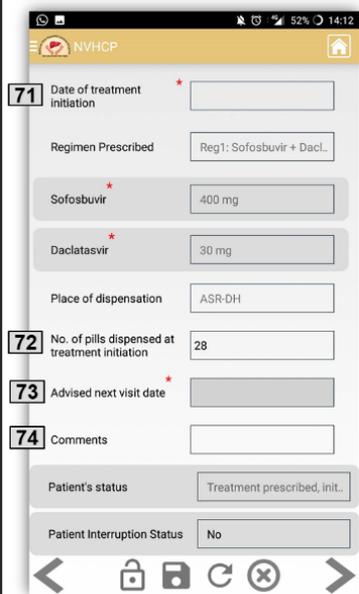
8.1

1st Dispensation Page (1/2)

1 st dispensation page	Field use	Field type	Dependencies	Editable
				
Auto-filled from prescription page				
#71 Date of treatment initiation	Record treatment initiation	Date	None	Yes
Auto-filled from prescription page				

8.2

1st Dispensation Page (2/2)

1 st dispensation page	Field use	Field type	Dependencies	Editable
				
#71 Date of treatment initiation	Record treatment initiation	Date	None	Yes
Auto-filled from prescription page				
#72 No. of pills dispensed at treatment initiation	Record no. of pills dispensed	Numeric	None	Yes
#73 Advised next visit date	Record advised next visit	Date	Auto-filled	No
#74 Comments	Record comments (if any)	Alphabet	None	Yes

- a) Record fields from #71 - #74 to capture first dispensation for a patient
 - a. Field #71 to be used to record the date of treatment initiation

- b. Field #72 to be used to record the number of pills dispensed; it is expected that monthly dispensation will be done and, hence, 28 pills (or one bottle) to be dispensed on average
- c. Field #73 - advised next visit date, will be auto-calculated

b) Click on save to save the first dispensation page and go to the next page

Steps for >1st Dispensation (e.g. 2nd Dispensation) page

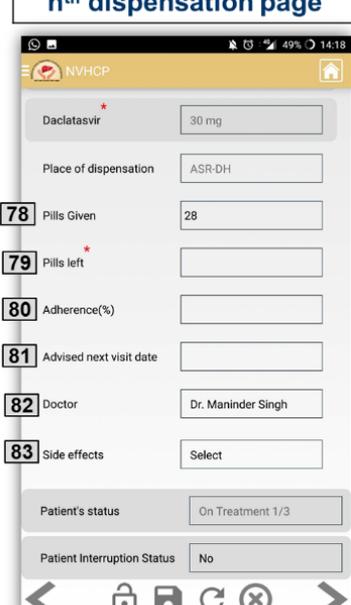
8.3

>1st Dispensation Page (1/2)

n th dispensation page	Field use	Field type	Dependencies	Editable
				
75 Visit date *	Record n th dispensation date	Date	None	Yes
76 Haemoglobin	Record Haemoglobin	Numeric	None	Yes
77 Platelet count	Record Platelet Count	Numeric	None	Yes
Regimen	Auto-filled from prescription page			
Sofosbuvir *	Auto-filled from prescription page			
Patient's status	Auto-filled from prescription page			
Patient Interruption Status	Auto-filled from prescription page			

8.4

>1st Dispensation Page (2/2)

n th dispensation page	Field use	Field type	Dependencies	Editable
				
	Auto-filled from prescription page			
78 Pills Given	Record pills given at n th visit	Numeric	None	Yes
79 Pills left *	Record pills left at n th visit	Numeric	None	Yes
80 Adherence(%)	Record adherence	Numeric	Auto-filled	No
81 Advised next visit date	Record advised next visit	Date	Auto-filled	No
82 Doctor	Record treating doctor	Drop-down	Auto-filled based on facility	Yes
83 Side effects	Record side-effects	Drop-down	None	Yes
Patient's status	Auto-filled from prescription page			
Patient Interruption Status	Auto-filled from prescription page			

a) Record fields from #75 - #83 to capture nth dispensation for a patient

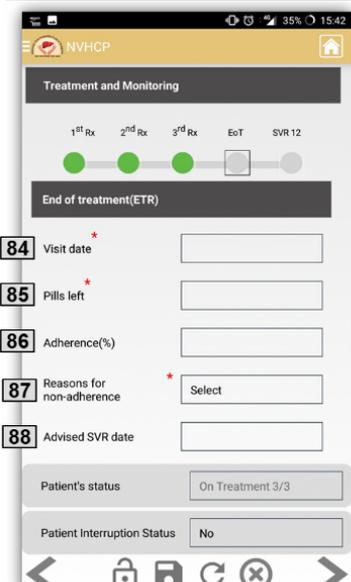
- b) Total number of dispensation will depend on the treatment duration, for e.g. If duration is 12 weeks, total dispensations will be 3 and if duration is 24 weeks, total dispensations will be 6
- c) *Field #80* - adherence and #81 – advised next visit date, will be auto-calculated
- d) Click on save to save the dispensation page and go to the next page

13. Entering End of Treatment Information for Hepatitis C Patients

Steps for End of Treatment (EoT) page

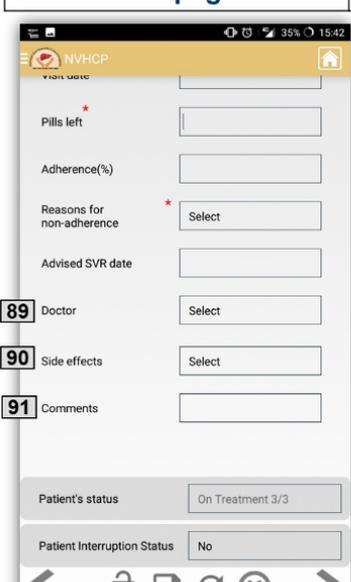
9.1

End of Treatment (EOT) Page (1/2)

EoT page	Field use	Field type	Dependencies	Editable
				
84 Visit date *	Record visit date	Date	None	Yes
85 Pills left *	Record pills left	Numeric	None	Yes
86 Adherence(%)	Record adherence	Numeric	Auto-filled	No
87 Reasons for non-adherence *	Record non-adherence reason	Drop-down	None	Yes
88 Advised SVR date	Record Advised SVR date	Date	Auto-filled	No

9.2

End of Treatment (EOT) Page (2/2)

EoT page	Field use	Field type	Dependencies	Editable
				
89 Doctor	Record doctor	Drop-down	None	Yes
90 Side effects	Record side-effects	Drop-down	None	Yes
91 Comments	Record comments (if any)	Alphabet	None	Yes

- a) EoT page will be displayed after all the dispensations have been completed

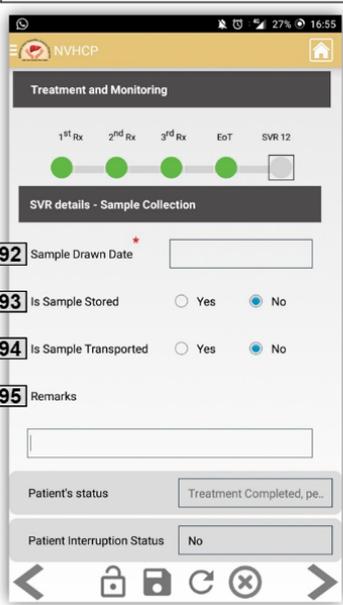
- b) Record fields from #84 - #91 to capture information regarding EoT
- c) Field #86 - adherence and #88 – Advised SVR date, will be auto-calculated
- d) Click on save to save the EoT page and go to the next page

14. Entering Sustained Virologic Load (SVR) information for HCV Patients

Steps for SVR page

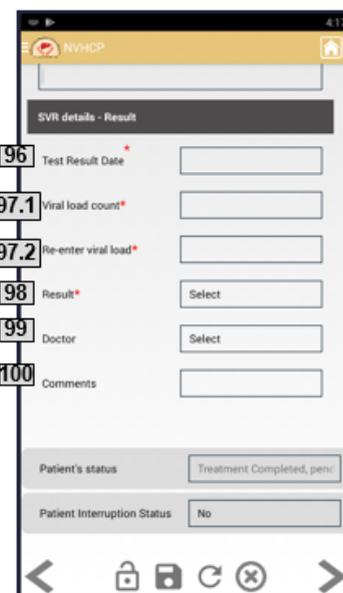
10.1

SVR Page (1/2)

SVR page	Field use	Field type	Dependencies	Editable
 <p>92 Sample Drawn Date *</p> <p>93 Is Sample Stored <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>94 Is Sample Transported <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>95 Remarks</p> <p>Patient's status: Treatment Completed, pe...</p> <p>Patient Interruption Status: No</p>	<p>92 Record sample drawn date</p> <p>93 Record sample storage</p> <p>94 Record sample transport</p> <p>95 Record remarks (if any)</p>	<p>Date</p> <p>Check-box</p> <p>Check-box</p> <p>Alphabet</p>	<p>None</p> <p>None</p> <p>None</p> <p>None</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

10.2

SVR Page (2/2)

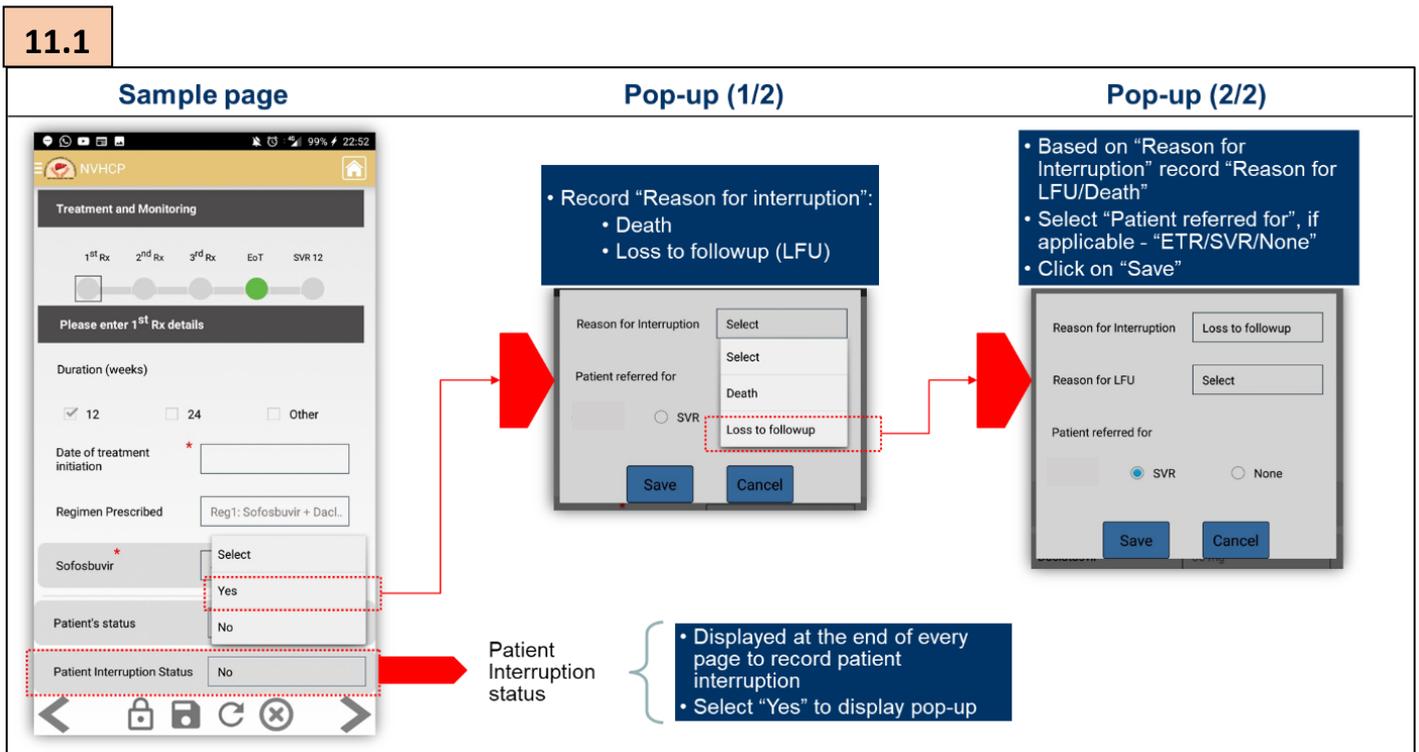
SVR page	Field use	Field type	Dependencies	Editable
 <p>96 Test Result Date *</p> <p>97.1 Viral load count *</p> <p>97.2 Re-enter viral load *</p> <p>98 Result *</p> <p>99 Doctor</p> <p>100 Comments</p> <p>Patient's status: Treatment Completed, pen...</p> <p>Patient Interruption Status: No</p>	<p>96 Record VL test result date</p> <p>97.1 Record VL count</p> <p>97.2 Re-enter VL count</p> <p>98 Record VL test result</p> <p>99 Record Doctor name</p> <p>100 Record Remark (if any)</p>	<p>Date</p> <p>Numeric</p> <p>Drop-down</p> <p>Drop-down</p> <p>Drop-down</p> <p>Alphabet</p>	<p>Only if "Yes" in (32)</p> <p>None</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

- a) SVR page will be exactly similar to Viral Load page

- b) Record fields from #92 - #100 to capture information regarding SVR
- c) Click on save to save the SVR page and complete the full entry for a patient

15. Entering Information for an Interrupted Patient

A patient is categorized as “Interrupted” if the patient discontinues the course of Hepatitis diagnosis or treatment due to some reason. In order to capture the information of such patients, the following steps have to be taken:

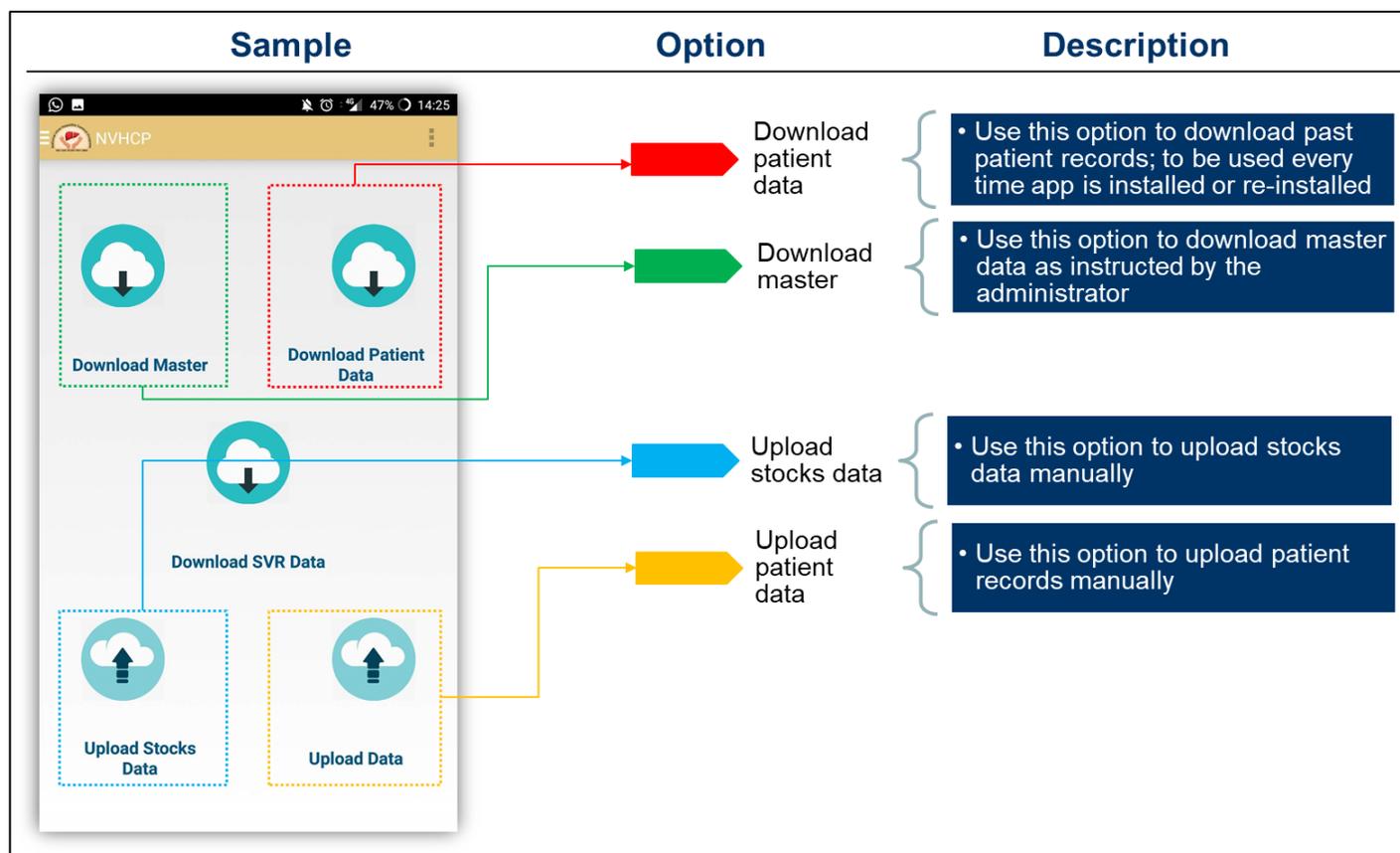


3.

How to download or upload data?

Uploading and downloading data

If your device is connected to the internet while the data entry is being done, then the data will be uploaded automatically to the server whenever a page is saved. In case of offline data entry, data has to be manually uploaded from the “Sync Data” section on the home page, as shown in Section 1, Part 3 – “Home-page”.



Rules for downloading and uploading data

- When using the application for the first time or when re-installing the application, always “Download patient data” to ensure that data recorded in the past or data recorded by other users from the same facility is synced to your device
- If multiple users from the same facility are using the app, then “Download patient data” option has to be selected every-time the app is used by any user
- “Download master” option to be used if directed by the SVHMU or NVHCP; this option is used when updating the master information such as list of doctors, facilities, side effects, etc.
- “Upload data” and “Upload Stock data” option to be used to manually upload patient and stock data respectively, already entered in the app in the offline mode
 - Upon clicking “Upload data”, a pop-up will appear listing the number of patient records uploaded to the server

Web Portal

User Manual Guide

1.

How to access the web-system and login?

1. Accessing the System

The system can be accessed by the link: <http://nvhcp.gov.in/login>

MIS can be accessed using any standard web browser like Internet Explorer, Firefox, Chrome, etc.

The session time-out, i.e. the automatic logout due to inactivity is 15 minutes. This means that if the system is left idle for more than 15 minutes, it logs you out of the system, and you have re-login to continue working on the system.

2. First Page of the System/Log-in Page

The first page of the system can be accessed by the link given in the previous section.

The page opens and looks like the following.

Steps for logging in:

- a) Enter "Username" provided by the NVHCP (NVHMU/SVHMU) which will be unique to each user
- b) Enter "Password" provided by the NVHCP (NVHMU/SVHMU); password cannot be changed by the user

Program Management System for NVHCP

Username
➡ Type your username

Password
➡ Type your password

Click on checkbox ➡ I accept the terms and conditions

Click on the checkbox ➡ I'm not a robot 
reCAPTCHA
Privacy · Terms

Click to enter ➡ **Login**

- c) Select checkbox – "I accept terms and condition"
 - i. To view terms and conditions (listed below), click on the hyperlinked text
 - ii. Terms and conditions
 - a. I will make the entries myself

- b. I will not intentionally enter incorrect data
 - c. I will ensure the data which I have access to is kept confidential at all times
 - d. I will not share the data I have access to with anyone in any format
 - e. I will complete my work on time and diligently
- d) Select Captcha – “I am not a robot”
 - e) Click on “Login” to enter the web portal

3. Home Page

After logging in, you will land on the Home Page below. The Home Page is also the ‘Patient Registration’ page.

The screenshot shows the Home Page of the National Viral Hepatitis Control Program. At the top, there is a navigation bar with three main options: **Patient Information**, **Dashboard**, and **Monthly Report**. A user ID **DO@ADMIN-DH** is visible in the top right corner. Below the navigation bar, there is a prominent red button labeled **+ ADD NEW PATIENT**. Underneath this button, the word **OR** is centered. Below **OR**, there is a search section with a **Search By** dropdown menu (currently set to **Select**) and a red **SEARCH** button. Below the search section, there is a **Patient List** button and a status indicator **1-30 Of 178 records.** At the bottom, a table header is visible with columns for **UID**, **Name**, and **Status**.

Numbered callouts provide the following instructions:

- ① Use this option to create a new patient record or edit/view existing patient information
- ② Use this option to view facility/State/National level Dashboard
- ③ Use this option to view facility/State/National Monthly Reports

There are three options on the top of the Home Page. Choose from one of the following options:-

- a) Patient Information - To register a new patient or add records of registered patients or view records of a registered patient
- b) Dashboard – To view and download data analysis
- c) Monthly report- To view and download monthly report

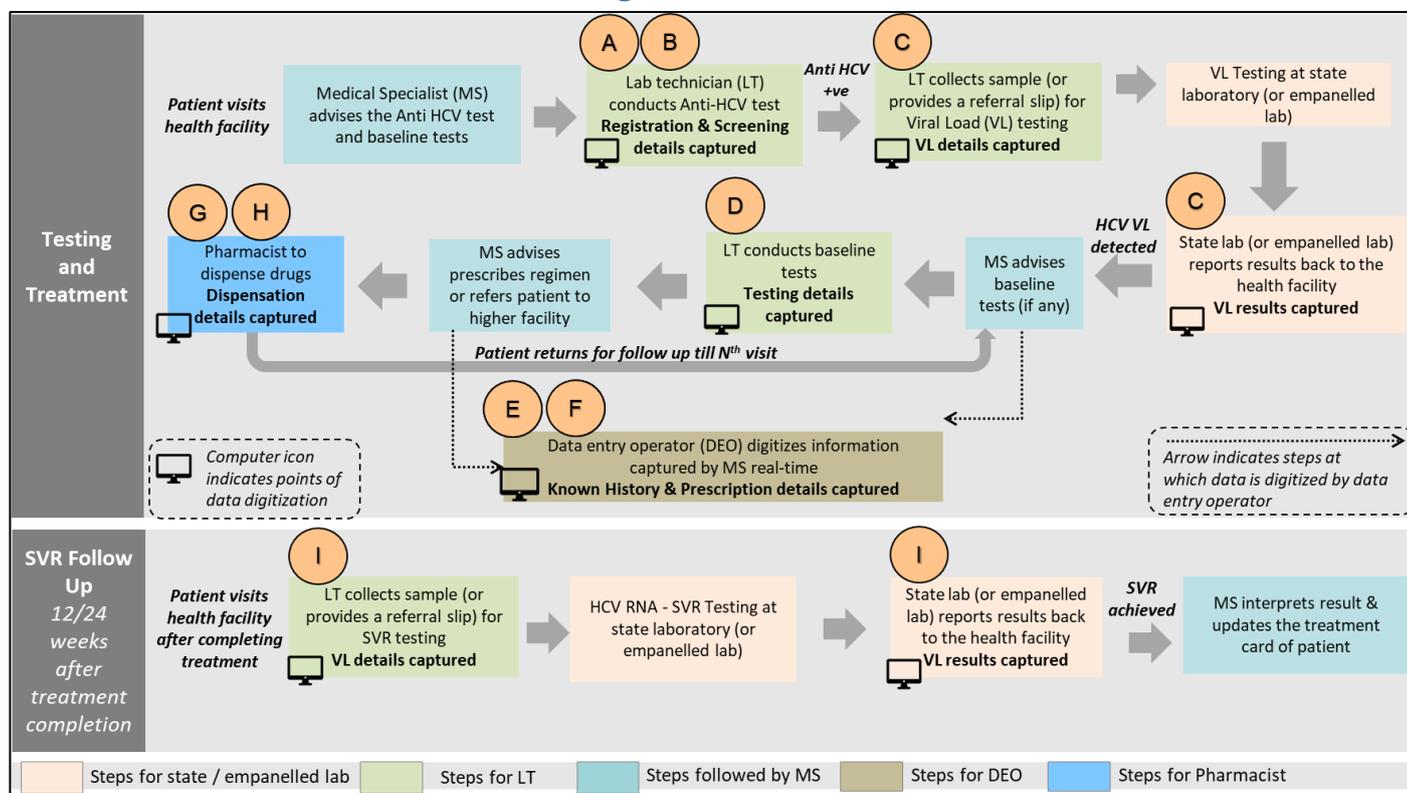
2.

How to create a new patient record or view/add information to an existing patient record?

1. Index for navigating various screens of the web portal:

Sr No.	Screen	Screen name	Use	Page no.
	1	Registration homepage	Add new record or edit existing records.	46
After clicking on "Add new patient" on registration homepage				
A	2.1 – 2.3	Patient registration	Enter patient registration information such as name, address, gender, etc.	48 – 50
B	3.1 – 3.2	Screening	Enter screening information such as date of screening test, result, etc.	51 – 52
C	4.1 – 4.2	Viral Load	Enter viral load information such as date of viral load test, viral load count, etc.	52 – 53
D	5.1 – 5.2	Testing	Enter testing information such as baseline tests (ALT, AST, etc.) and cirrhosis status.	54 – 55
E	6.1 – 6.3	Known History	Enter known history information such as co-morbidities and referral information.	56 – 58
F	7	Prescription	Enter prescription information such as regimen, duration, prescribing doctor, etc.	59
G	8.1 – 8.2	Dispensation	Enter drug dispensation information such as date of dispensation, pills left, etc.	60 – 61
H	9	End of Treatment	Enter end of treatment information such as visit date, pills left, etc.	62
I	10.1 – 10.2	Sustained Virologic Response (SVR)	Enter SVR information such as test date, viral load count, etc.	63
J	11.1-11.2	Interrupted Patient	Recording interruption status and reasons	64-65

2. Information flow for entering the above details:



Above data flow may vary among facilities depending upon availability of HR and infrastructure

3. Creating a new record or view/add information to an existing record

On the Home Page, select the *Patient Information* option and select which stage is the patient at viz.

- a) *Patient Registration* – To register a new patient (this is also the home page, so no selection is required)
- b) *Test and Result* – To add information or view records of patients who have been registered
- c) *Treatment* – To add information or view records of patients who have undergone treatment

Exploring Patient Information Option

National Viral Hepatitis Control Program

DO@ADMIN-DH

Patient Information | Dashboard | Monthly Report

1. Patient Registration | Use this option to register a new patient or add information of registered patients
2. Test and Result | Use this option to update the diagnostic information of registered patients
3. Treatment | Use this option to update treatment prescription and dispensation information of infection patient

+ ADD NEW PATIENT

OR

SEARCH

Patient List

1-30 Of 178 records.

UID	Name	Status
003974	asdasd	Antibody Positive, Confirmatory RNA Pending

Once the appropriate selection has been made, follow the steps below to add new record or editing an existing record (see picture below):

- a) Click on “+ Add new patient” to initiate the data entry for a patient
- b) For editing existing records, following options can be used
 - a. If you know the NVHCP UID or phone number of a particular patient, then enter the same in the space provided below “Update/Search record by UID/contact number”
 - b. If you want to list down the records for a facility based on the patient status, then select the “Patient status” from the drop-down below “Update/Search patient record by Status”. (Patient Status’ have been explained below.)
- c) Shortlisted records will be displayed in the space highlighted in grey above

d) Once a record is displayed, click on the record to view or add new details

1
Creating a new patient record

National Viral Hepatitis Control Program

Patient Information ▾
Dashboard
Monthly Report
DO@ADMIN-DH

Use this option to add a new patient record

+ ADD NEW PATIENT

This option is only available on the 'Patient Information > Patient Registration' or 'Home Page'

OR

Search By

Select

Select

UID/Contact No.

Status

SEARCH

UID	Name	Status
894546	Pfigg	Diagnosis Pending
003973	sadsad	Treatment prescribed, initiation pending
990094	Fhfv	RNA Positive, Prescription Pending
003970	sa	RNA Positive, Prescription Pending
990095	Jnsns	Not infected
075666	Vhfv	RNA Positive, Prescription Pending
003965	Kk kumar	On Treatment 2/3
003965	Kk sharma	On Treatment 2/3
003963	Test One	RNA Positive, Prescription Pending

Use this option to search for a patient record by UID or contact number

Patient search result to edit/view existing records

Patient Status'

The following patient status' appear in the 'Search by Patient Status' option

Sr. No	Patient status	Situation	Change at
Patient Status' appearing in the Patient Registration Module			
1	Diagnosis Pending	Anti-HCV test yet to be done	Screening page
2	Not infected	Anti-HCV (-) OR RNA (-)	Screening page or VL page
3	Antibody Positive, Confirmatory RNA Pending	Anti-HCV+, RNA test for HCV pending	Screening page
4	RNA Positive, Prescription Pending	RNA+, treatment yet to be prescribed	VL page
5	Treatment Prescribed, Initiation Pending	Treatment prescribed, 1st dispensation pending	Prescription page
Patient Status' appearing in the Test and Result Module			
1	Diagnosis Pending	Anti-HCV test yet to be done	Screening page
2	Not infected	Anti-HCV (-) OR RNA (-)	Screening page or VL page
3	Antibody Positive, Confirmatory RNA Pending	Anti-HCV+, RNA test for HCV pending	Screening page
4	RNA Positive, Prescription Pending	RNA+, treatment yet to be prescribed	VL page

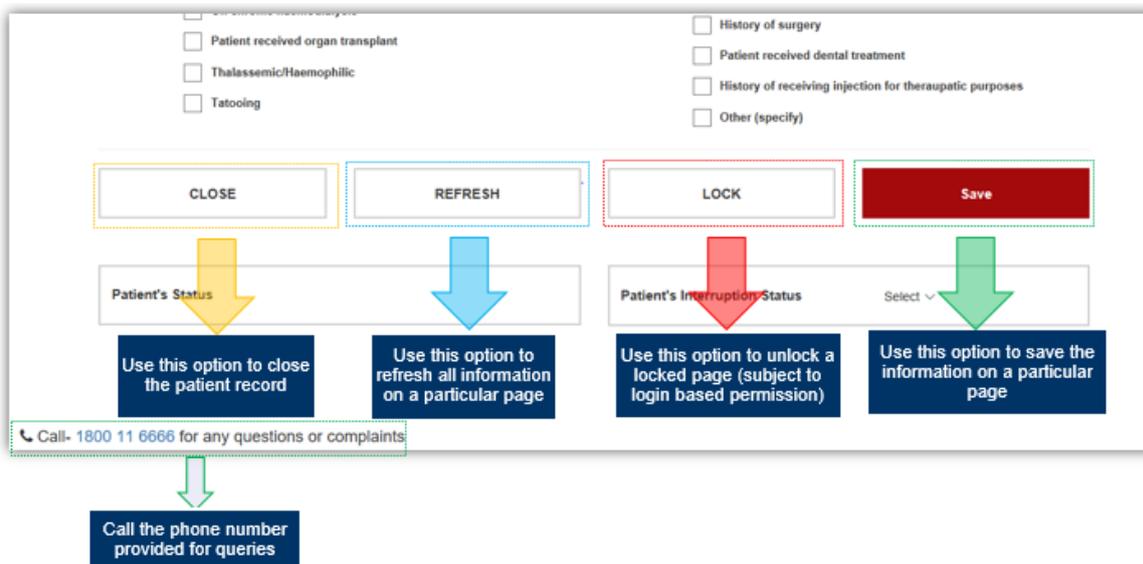
5	Treatment Prescribed, Initiation Pending	Treatment prescribed, 1st dispensation pending	Prescription page
6	Treatment Completed, pending for SVR	Yth* dispensation done, only SVR is pending	End of Treatment page
7	Treatment Incomplete, pending for SVR	If treatment interrupted and SVR prescribed	Nth dispensation page
8	SVR Achieved	HCV RNA not detected	SVR page
9	SVR Not Achieved	HCV RNA detected	SVR page
Patient Status' appearing in the Treatment Module			
1	Treatment Prescribed, Initiation Pending	Treatment prescribed, 1st dispensation pending	Prescription page
2	On Treatment X/Y*	Xth dispensation done, X+1 dispensation pending	Nth dispensation page
3	On Treatment 1/3	1st dispensation done, 2nd dispensation pending	1st dispensation page
4	Treatment Completed, pending for SVR	Yth* dispensation done, only SVR is pending	End of Treatment page
5	Treatment Incomplete, pending for SVR	If treatment interrupted and SVR prescribed	Nth dispensation page
6	SVR Achieved	HCV RNA not detected	SVR page
7	SVR Not Achieved	HCV RNA detected	SVR page

*Wherein X refers to the current dispensation and Y refers to the total required dispensations. For e.g., if a patient is recommended a 3 months (12 weeks) regimen, then total required dispensations (Y) will be 3 and if the patient has come for his/her 2nd dispensation (X) then patient status will be 'On Treatment 2/3'.

4. Exploring Page Controls

Once a record has been opened, at the bottom of each patient record page, you will find the following four options. The meaning of these options is explained below:-

1. **Lock/Unlock** - Use this option to unlock a locked page (subject to login based permission)



- a. To edit previously entered details of a patient, users are only allowed to edit the last saved page and the pages before that are locked
 - b. Details on a locked page can only be edited using the login credentials of the nodal officer of the facility who will have administrative rights
2. **Save** - Use this option to save the information on a particular page
 3. **Refresh** - Use this option to refresh all information on a particular page
 4. **Close** - Use this option to close the patient record

5. Registering a new patient

To register a new patient click on 'New Patient' in the previous section to land on this page and enter information in fields #1 to #20.

2.1

Patient Registration Page (1/3): Fields #1-#19

The screenshot shows the 'Patient Registration Module' form. At the top, there is a navigation bar with tabs: 1. Registration (highlighted), 2. Screening, 3. Viral Load, 4. Testing, 5. Known History, 6. Prescription, 7. Dispensation, 8. SVR. A tooltip indicates 'A patient record can 8 sections'. The form fields are numbered 1 through 19:

- 1. OPD/IPD *
- 2. NVHCP ID *
- 3. Patient Serial Number
- 4. Patient Type * (New, Experienced)
- 5. Name *
- 6. Age between 0 and 1 Year? (No)
- 7. Age (in years) *
- 8. Gender *
- 9. Select Relative * (Father)
- 10. Relative's Name *
- 11. Home & Street Address *
- 12. State * (Punjab)
- 13. District * (Amritsar)
- 14. Block/Ward (Select Block)
- 15. Village/Town/City
- 16. Pincode *
- 17. Contact Type (Mobile)
- 18. Mobile No. *
- 19. Consent for Receiving Communication * (Select Consent)

Steps for Registration Page

- a) Enter OPD/IPD ID assigned by the hospital in *field #1*
- b) NVHCP ID in *field #2* is auto-generated and cannot be edited
- c) NVHCP 6 digit Patient Serial Number, for e.g. 000453, in *field #3* will be auto-generated but can be edited
 - a. If it needs to be edited, type only non-zero beginning digits, for e.g., 453 and not 000453

- d) Select Patient Type 'New' or Experienced' in *field #4*
- A patient is 'New' if he/she has never received treatment for Hepatitis C.
 - A patient is 'Experienced' if he/she has received treatment for Hepatitis C in the past either within the NVHCP program or outside
- e) If the patient is 'Experienced', enter past treatment details in *fields #4.1 - #4.5* shown below, if available, else move to field #5

2.2

Patient Registration Page (2/3): Registering an experienced patient in Field #4

The screenshot displays the 'Patient Registration Module' interface. At the top, there is a navigation bar with 'Dashboard', 'Monthly Report', and 'Masters'. Below this is a horizontal menu with tabs numbered 1 to 8: 1. Registration (highlighted in red), 2. Screening, 3. Viral Load, 4. Testing, 5. Known History, 6. Prescription, 7. Dispensation, and 8. SVR. The main form area is titled 'Patient Registration Module' and contains several input fields:

- OPD/IPD ***: A text input field.
- NVHCP ID ***: A dropdown menu showing 'PB-ASR-DH-001-19'.
- 004071**: A text input field.
- 4 Patient Type ***: Radio buttons for 'New' and 'Experienced' (selected).
- 4.1 NVHCP**: Radio buttons for 'NVHCP' (selected) and 'Outside'.
- 4.2 State ***: A dropdown menu showing 'Punjab'.
- 4.3 Facility ***: A dropdown menu showing 'Amritsar-dh'.
- 4.4 Treatment Year**: A dropdown menu showing 'Select'.
- 4.5 Past Treatment UID**: A text input field.
- SYNC**: A red button at the bottom right.

A tooltip at the bottom right of the form reads: 'Click "sync" button to import patient data from past NVHCP UID to expedite data entry'.

- f) Enter the person's first and last name in *field #5* in the following format <First name> <space> <Last name>, for e.g, Roop Kumari, ensure that the name matches the name in a government ID
- g) If age of person is between 0 to 1 years, select 'yes' in *field #6*, else skip to *field #7*
- h) Enter age of person in *field #7*
- If person's age is between 0-1 years (i.e. less than 12 months), enter age in months in numbers, for e.g., 11
 - If person's age is greater than 1 year, enter age in years in numbers, for e.g., 11
- i) Select appropriate gender in *field #8*, by observation
- j) Enter a relative name in the following format <First name> <space> <Last name>, for e.g. Manoj Kumar, in *field #10* and select relation to the relative in *field #9*
- k) Enter complete address in *fields #11 - #16*

- a. In *field # 11*, enter home and street address in the following format
 <Home Name/Number, Street Name, Landmark, Area Name>
 For e.g., A-32 Sukhda, 11th Road, Near Patwardhan Park, Santacruz
- l) Select contact type, mobile or landline, in *field #17*
 - a. Enter the contact number in *field #18*
 - b. Contact number should only be 10 digits in length without preceding zeroes
- m) Record consent for communication in *field #19*
- n) Select risk factor in *field #20*, more than one risk factor can be selected

2.3 Patient Registration Page (3/3): Adding risk factors in field #20

- o) Click on “Save” button to go the next page

6. Entering Viral Hepatitis Screening Information for registered patients

Steps for Screening Page

3.1

Screening Page (1/2): Selection of screening Test Type in field #21

The screenshot shows the 'Patient Screening Module' interface. At the top, there is a navigation bar with tabs: 1. Registration, 2. Screening (highlighted), 3. Viral Load, 4. Testing, 5. Known History, 6. Prescription, 7. Dispensation, 8. SVR. Below the navigation bar, the 'Patient Screening Module' title is centered. Underneath, there are four test type options: 'Hepatitis A' (with checkbox 'IgM Anti HAV'), 'Hepatitis B' (with checkbox 'HBsAg'), 'Hepatitis C' (with checkbox 'Anti HCV'), and 'Hepatitis E' (with checkbox 'IgM Anti HEV'). Below these options are three buttons: 'CLOSE', 'REFRESH', and 'LOCK'. At the bottom, there are two status fields: 'Patient's Status' (with a dropdown menu showing 'Diagnosis Pending') and 'Patient's Interruption Status' (with a dropdown menu showing 'No').

a) Select the tests conducted in *field #21*, more than one screening test can be selected

3.2

Screening Page (2/2): Adding Screening Details in field #22/#23/#24

The screenshot shows the 'Patient Screening Module' interface with the 'TEST TYPES' section. The 'IgM Anti HAV' checkbox is checked, and the 'Anti HCV' checkbox is also checked. Below this, there are two sections for 'Screening Details'. The first section is 'Screening Details - IgM Anti HAV Testing'. It contains three test type options: 'Rapid Diagnostic Test' (checked, field #22), 'ELISA Test' (unchecked, field #23), and 'Other Test' (unchecked, field #24). For the 'Rapid Diagnostic Test', there are four fields: 'Date' (field #22.1, value '05-07-2018'), 'Result' (field #22.2, value 'Positive'), 'Place Of Testing' (field #22.3, value 'Govt. Lab'), and 'Lab Name' (field #22.4, value 'ASR-DH'). For the 'Other Test', there are four fields: 'Test Name' (field #24.1), 'Date' (field #24.2), 'Result' (field #24.3), and 'Place Of Testing' (field #24.4). Below these sections, there are two radio button options: 'Patient managed at the facility' (field #22.5) and 'Patient referred for management to higher facility'. The second section is 'Screening Details - Anti HCV Testing', which contains one test type option: 'Rapid Diagnostic Test' (unchecked).

b) For each test conducted, select *at-least one* applicable test type – Rapid Diagnostic Test / ELISA Test / Others

c) For each test type, say “Rapid Diagnostic Test” in *field #22*, enter information from *field #22.1 - #22.4*

- a. For *field #22.3*, if “Govt. Lab” is selected, then *field #22.4* – Lab name has to entered using drop-down options
- b. *Field #22.5* is to be filled only when “Result” is “Positive” for any type of test for HAV and / or HEV
- d) If “Other” test type is selected, additional field to record “test name” has to be filled
- e) Click on “Save” button to go to the next page

7. Entering Virologic Load Information for Hepatitis C

Steps for Viral Load page

Viral Load Sample Collection Section

4.1
Viral Load Page (1/2): Viral Load Sample Collection Details in field #25-#29

1. Registration
2. Screening
3. Viral Load
4. Testing
5. Known History
6. Prescription
7. Dispensation
8. SVR

Patient Viral Load Module

25 **VIRAL LOAD TEST DETAILS**

 HEP-C

HEP-C Viral Load - Sample Collection
 Re-enter VL data in case of sample rejection

26 **Sample Drawn On Date ***

27 **Is Sample Stored**

27.1 **Sample Storage Temperature (°C)**

27.2 **Sample Storage Duration**

27.3 **Duration (in hours)**

28 **Is Sample Transported**

28.1 **Sample Transport Temperature (°C)**

28.2 **Sample Transport Date**

28.3 **Sample Transported To**

28.4 **Sample Transported By : Name**

28.5 **Designation**

29 **Remarks**

Use this option re-enter VL sample collection information if the previous sample was rejected

- a) Select viral hepatitis type to enter viral load details in *field #25*
 - a. Either or both of 2 options – Hep-C / Hep-B, will be available based on the information added on screening page
- b) For each test selected, say Hep-C, enter sample collection information from *field #26 -#29*

- a. If *field #27*, “Is sample stored”, is selected as “Yes”, then fields from #27.1 - #27.3 have to be filled
- b. If *field #28*, “Is sample transported”, is selected as “Yes”, then fields from #28.1 - #28.5 have to be filled
- c) Enter any remarks in *field #29*
- d) Click on “Save” to *partially save* the viral load page till sample collection information is available

4.2
Viral Load Page (2/2): Viral Load Sample Result Details in field #30-#34

HEP-C Confirmatory Viral Load Details - Result

30 Sample Receipt Date
31 Sample Received By : Name
32 Designation

33 Is Sample Accepted
33.1 Test Result Date
33.2 Viral Load
33.3 Re-enter Viral Load
33.4 Result
} These fields are only shown if sample is accepted

33 Is Sample Accepted
33.5 Reason for Rejection
} This field is only shown if sample is rejected

34 Remarks

CLOSE

REFRESH

LOCK

SAVE

Viral Load Sample Result Section

- a) For each test selected, say Hep-C, enter viral load results information from *field #30 - #34*
 - a. If *field #33*, “Is sample accepted”, is selected as “Yes” then *fields #33.1 - #33.4* have to be filled
 - b. If *field #33*, “Is sample accepted”, is selected as “No” then *field #33.5* has to be filled
- b) If sample is rejected via *field #33*, then repeat sample collection may take place; in such a case, click on the blue button “Re-enter VL data” below *field #25* to re-enter the details of new sample collection
- c) Enter any remarks in *field #34*, for e.g., Viral Load value is below 1000 but has been detected
- d) Click on “Save” to save the viral load page and go to the next page

8. Entering Testing Information for Hepatitis C Patients

Steps for Testing Page

5.1

Testing Page (1/2): Fields #35-#50

The screenshot displays the 'Patient Testing Module' interface. At the top, a navigation bar includes tabs for 1. Registration, 2. Screening, 3. Viral Load, 4. Testing (highlighted), 5. Known History, 6. Prescription, 7. Dispensation, and 8. SVR. Below this is a dark header with 'Patient Testing Module' and a red 'Add FollowUp Visit' button. The main form area is titled 'BASELINE TEST DETAILS' and contains the following fields:

- 35: Date of Prescribing Tests * (dd-mm-yy)
- 36: Date of issue of last investigation report * (dd-mm-yy)
- 37: Haemoglobin *
- 38: Albumin *
- 39: Bilirubin (Total) *
- 40: PT INR *
- 41: ALT *
- 42: AST *
- 43: AST ULN (Upper Limit of Normal) *
- 44: Platelet Count *
- 45: Weight (in Kgs) *
- 46: Creatinine (in mg/dL)
- 47: eGFR (estimated glomerular filtration rate)
- 48: Complicated/Uncomplicated * (dropdown menu)
- 48.1: Severity of HEP-C (dropdown menu)

Below the baseline details is a section titled 'Criteria for Evaluating Cirrhosis' with the following fields:

- 49: Ultrasound (checkbox)
- 49.1: Ultrasound Date (dd-mm-yy)
- 50: Fibroscan (checkbox)
- 50.1: Fibroscan Date (dd-mm-yy)
- 50.2: LSM value (in Kpa)

A callout box with a blue background and white text points to the 'Add FollowUp Visit' button, stating: 'Use this option record testing details when the patient comes for follow up visits'.

- a) Enter Baseline tests details from *field #35 - #48*
 - a. *Field #47* will be auto-calculated based on the details captured above such as age, weight, gender and S.Creatinine value
 - b. Select "Complicated Status" in *field #48*; If "Complicated" is selected, then severity of Hep-C has to be selected in *field 48.1* as either compensated or decompensated
- b) Enter criteria for evaluating Cirrhosis from *field #49 - #52*
 - a. APRI and FIB-4 score in *field #51 and #52* will be auto-calculated using values inputted for AST, AST (ULN), ALT, age, platelet count
- c) If "Complicated" is selected in *field #48*, then *fields #53 - #57* can be filled (see picture below)
 - a. *Fields #53-#57* are mandatory if decompensated cirrhosis is selected and non-mandatory if compensated cirrhosis is selected
- d) *Field #57* i.e. Child Pugh Score will be auto-calculated
- e) Click on 'Save' to save the testing page and go to the next page

5.2 Testing Page (2/2): Fields #50-#57

50 Fibroscan **50.1** Fibroscan Date **50.2** LSM value (in Kpa)

51 APRI **51.1** APRI Score

52 FIB 4 **52.1** FIB 4 Score

Compensated Cirrhosis

53 Date **54** Variceal Bleed **55** Ascites **56** Encephalopathy **57** Child Pugh Score

Patient's Status

Patient's Interruption Status

9. Entering Known History Information for Hepatitis C Patients

Steps for Known History page

6.1

Known History (1/3): Field #58

1. Registration 2. Screening 3. Viral Load 4. Testing 5. Known History 6. Prescription 7. Dispensation 8. SVR

Patient Known History Module

58 Treatment Experienced Yes No

58.1 Treating Hospital/health facility Select

58.2 Previous Regimen Select

58.3 Previous Duration Select

58.4 Previous Status Interrupted

58.4.1 No. Of Weeks Completed Select

58.4.2 Last Pill Taken On dd-mm-yyyy

Use this option to view testing results dashboard

These fields are only shown if 'Treatment Experienced' is selected as 'Yes'

These fields are only shown if 'Previous Status' is selected as 'Interrupted'

Treating Hospital/health facility Select

Previous Regimen Select

Previous Duration Select

Previous Status Completed

58.4.3 Past Treatment Outcome Select

This field are only shown if 'Previous Status' is selected as 'Completed'

- a) Field #58, treatment experienced, will be auto-selected based on information capture on registration page
 - a. If field #58 is Yes, then field #58.1 - #58.4 have to be filled
 - b. If field #58.4 is Interrupted, then field #58.4.1 - #58.4.2 have to be filled

c. If field #58.4 is Completed, then *field #58.4.3* has to be filled

6.2
Known History (2/3): Field #59-#60

1. Registration
2. Screening
3. Viral Load
4. Testing
5. Known History
6. Prescription
7. Dispensation
8. SVR

Patient Known History Module i

58 Treatment Experienced Yes No

59

Breast Feeding Woman

Renal impairment

Active Tuberculosis

Thalassemia

Patient on chemotherapy with deranged liver enzymes

Diabetes

History of alcohol consumption

Chronic obstructive pulmonary disease

Haemoglobinopathies

Anaemia <9

HIV

HBV

Hepato-cellular Carcinoma

Seizure/Epilepsy i

Hypertension

Poorly controlled cardiac failure

Previous ribavarin hypersensitivity

Coronary artery disease

59.1 HIV/ART Regimen **59.2** Renal/CKD Stage

60 Last Menstrual Period **60.1** Pregnant **60.2** Expected Date of Delivery

Use this option to view testing results dashboard

b) Select all known history in the check-list in *field #59*

- a. If “HIV” is selected, then *field #59.1* - HIV/ART regimen have to be filled
- b. If “Renal Impairment” is selected, then *field #59.2* – CKD stage have to be filled
- c. Click on the check box next to *Seizure/Epilepsy* option if the patient is on carbamazepine or phenytoin medication. (A seizure is a sudden surge of electrical activity in the brain. A seizure is a single occurrence, whereas epilepsy is a neurological condition characterized by two or more unprovoked seizures.)

6.3 Known History (3/3): Field #61-#62

Referred

61 Yes ▾

61.1 Referring Doctor **61.2** Referred To **61.3** Date

Select ▾ Select ▾ dd-mm-yyyy

62 Observations

CLOSE REFRESH LOCK **SAVE**

- c) *Field #61* – “Referred” to be selected as “Yes” if patient has been referred to MTC
 - a. If *field #61* is “Yes”, then *field #61.1 - #61.3* has to be filled
 - b. If the patient can be referred to more than one MTC in *field #61.2*, the patient should be referred the facility of his/her preference and the preferred facility should be selected from the dropdown options
- d) If patient is Female then *field #60* needs to be filled
- e) Additional remarks can be added in *field #62* – Observations
- f) Click on ‘Save’ to save the known history page and go to next page

10. Entering Prescription Information for Hepatitis C Patients

Steps for Prescription Page

7
Patient Prescription Page: Field #63-#68

1. Registration 2. Screening 3. Viral Load 4. Testing 5. Known History 6. Prescription 7. Dispensation 8. SVR

Patient Prescription Module

63
Prescribing Facility *

64
Prescribing Doctor *

65
Regimen Prescribed *

65.1
Sofosbuvir *

65.1
Daclatasvir *

66
Duration(Weeks) *

66.1
Other Duration (Weeks)*

66.2
Reason*

67
Prescribing Date *

68
Place Of Dispensation

CLOSE

REFRESH

LOCK

SAVE

Patient's Status RNA Positive, Prescription f

Patient's Interruption Status No ▼

- a) Record *fields* from #63 - #68 to capture prescription information of a patient
- b) Using *field* #65, capture strength of drugs based on selection in *field* #65.1
- c) Select duration (in weeks) using *field* #66; if duration is different from 12 or 24 weeks, then select “Other” option to record the duration in *field* #66.1 with a supporting reason in *field* #66.2, for e.g., reason could be that patient has completed 8 weeks of treatment already and thus MO has prescribed drugs for remained 4 weeks of the 12 week treatment
- d) Select “Place of dispensation” using *field* #68, which will be auto-filled in case of TC
 - a. In case of referral to MTC, Place of dispensation can be changed to MTC, TC or both
- e) Click on ‘Save’ to save the prescription page and go to next page

11. Entering Dispensation Information for Hepatitis C

Steps for 1st dispensation page

8.1

Patient Dispensation Page: Field #69-#75 (>1st Dispensation)

The screenshot displays the 'Patient Dispensation Module' interface. At the top, a navigation bar includes steps: 1. Registration, 2. Screening, 3. Viral Load, 4. Testing, 5. Known History, 6. Prescription, 7. Dispensation (highlighted in red), and 8. SVR. Below this, a sub-header reads 'Patient Dispensation Module' with buttons for '1st Rx', '2nd Rx', '3rd Rx', and 'EoT'. The main form contains the following fields:

- 69** Duration(Weeks): A dropdown menu with the value '12' selected.
- 70** Date Of Treatment Initiation *: A date input field with a red 'X' icon, showing 'dd-mm-yy'.
- 71** Regimen Prescribed *: A dropdown menu with 'Reg 1: Sofosbuvir + Daclatasvir' selected.
- 71.1** Sofosbuvir*: A dropdown menu with '400 mg' selected.
- 71.1** Daclatasvir*: A dropdown menu with '60 mg' selected.
- 72** Place Of Dispensation*: A dropdown menu with 'ASR-DH' selected.
- 73** Number Of Pills Dispensed At Treatment Initiation: A text input field with the value '28'.
- 74** Advised Next Visit Date: A date input field with a red 'X' icon, showing 'dd-mm-yy'.
- 75** Comments: A large empty text area for entering notes.

- Record fields from #69- #75 to capture first dispensation for a patient
- Field #70* to be used to record the date of treatment initiation
- Field #73* to be used to record the number of pills dispensed; it is expected that monthly dispensation will be done and, hence, 28 pills (or one bottle) to be dispensed on average
- Field #74* Advised Next Visit Date will be auto-generated and does not need to be filled
- Click on save to save the first dispensation page and go to the next page

8.2

Patient Dispensation Page: Field #76-#87 (>1st Dispensation)

The screenshot displays the 'Patient Dispensation Module' interface. At the top, a navigation bar contains tabs for: 1. Registration, 2. Screening, 3. Viral Load, 4. Testing, 5. Known History, 6. Prescription, 7. Dispensation (highlighted in red), and 8. SVR. Below this, a dark grey header reads 'Patient Dispensation Module'. Underneath the header are buttons for '1st Rx', '2nd Rx' (highlighted in red), '3rd Rx', and 'EoT'. The main form area contains several fields, each with a circled number indicating its field ID:

- 76** Visit Date* (dd-mm-yy)
- 77** Haemoglobin
- 78** Platelet Count
- 79** Regimen Prescribed* (Reg1: Sofosbuvir + Daclatasvir)
 - 79.1** Sofosbuvir* (400)
 - 79.1** Daclatasvir* (60 mg)
- 80** Place Of Dispensation (ASR-DH)
 - 81** Pills Given (28)
 - 82** Pills Left (0)
- 83** Adherence(%)
 - 83.1** Reason for Low Adherence (Select)
- 84** Advised Next Visit Date
 - 85** Doctor (Select)
 - 86** Side Effects (Headache, Fatigue, Anemia, Nausea, Insomnia, Diarrhea, Weakness, Rash, Depression, Others, No side effects)
- 87** Comments

Steps for >1st dispensation (i.e. 2nd dispensation onwards) page

- Record fields from #76 - #87 to capture nth dispensation for a patient
- Total number of dispensation will depend on the treatment duration, for e.g. if duration is 12 weeks, total dispensations will be 3 and if duration is 24 weeks, total dispensations will be 6
- Field #83 - adherence and #84 – advised next visit date, will be auto-calculated
- Click on save to save the dispensation page and go to the next page

12. Entering End of Treatment information for Hepatitis C Patients

Steps for End of Treatment (EoT) page

9
End of Treatment Page: Field #88-#94

The screenshot shows the 'Patient Dispensation Module' interface. At the top, there are navigation tabs: 1. Registration, 2. Screening, 3. Viral Load, 4. Testing, 5. Known History, 6. Prescription, 7. Dispensation (highlighted in red), and 8. SVR. Below the tabs, there are sub-tabs for 1st Rx, 2nd Rx, 3rd Rx, and EoT (highlighted in red). The main form area contains the following fields:

- 88** Visit Date*: A date input field with a calendar icon and a red 'X' icon.
- 89** Pills Left*: A text input field.
- 90** Adherence(%)*: A text input field.
- 90.1** Reason for Low Adherence: A dropdown menu with 'Select' as the current option.
- 91** Advised SVR Date: A date input field with a calendar icon and a red 'X' icon.
- 92** Doctor: A dropdown menu with 'Select' as the current option.
- 93** Side Effects: A group of checkboxes for Headache, Fatigue, Anemia, Nausea, Insomnia, Diarrhea, Weakness, Rash, Depression, Others, and No side effects.
- 94** Comments: A large text area for entering notes.

At the bottom of the form, there are four buttons: CLOSE, REFRESH, LOCK, and SAVE (highlighted in red).

- EoT page will be displayed after all the dispensations have been completed
- Record fields from #88 - #94 to capture information regarding EoT
- Field #90 - adherence and field #91 – Advised SVR date, will be auto-calculated
- Click on 'Save' to save the EoT page and go to the next page

13. Entering Sustained Virologic Load (SVR) information for Hepatitis C Patients

Steps for SVR page (see pictures below)

- SVR page will be exactly similar to Viral Load page
- Record fields from #95 - #101 to capture information regarding SVR
- Click on 'Save' to save the SVR page and complete the full entry for a patient

10.1 SVR Page (1/2): Field #95-#98 (SVR Sample Collection Details)

1. Registration 2. Screening 3. Viral Load 4. Testing 5. Known History 6. Prescription 7. Dispensation 8. SVR

Patient SVR Module

HEP-C Viral Load - Sample Collection

Re-enter VL data in case of sample rejection

95 Sample Drawn On Date *

96 Is Sample Stored 2 **96.1** Sample Storage Temperature (°C)

97 Is Sample Transported 0 **97.1** Sample Transport Temperature (°C) **97.2** Sample Transport Date **97.3** Sample Transported To

97.4 Sample Transported By : Name **97.5** Designation

98 Remarks

Use this option re-enter VL sample collection information if the previous sample was rejected

10.2 SVR Page (2/2): Field #99-#101 SVR Sample Collection Details

HEP-C Confirmatory Viral Load Details - Result

99 Sample Receipt Date **99.1** Sample Received By : Name **99.2** Designation

100 Is Sample Accepted **100.1** Test Result Date **100.2** Viral Load **100.3** Re-enter Viral Load **100.4** Result
 } *These fields are only shown if sample is accepted*

100 Is Sample Accepted **100.5** Reason for Rejection
 } *This field is only shown if sample is rejected*

101 Remarks

CLOSE

REFRESH

LOCK

SAVE

14. Entering Information for an Interrupted Patient

A patient is categorized as “Interrupted” if the patient discontinues the course of Hepatitis diagnosis or treatment due to some reason. In order to capture the information of such patients, the following steps have to be taken.

Steps for reporting an interrupted patient:

- a) Interrupted patient has been defined as one who has discontinued the course of Hepatitis diagnosis or treatment due to some reason

11.1 Interrupted Patient (1/2): Recording Interruption Status

The screenshot shows a web form for recording patient interruption status. Key elements include:

- Adherence(%)**: Input field with value 100.00.
- Advised SVR Date**: Date picker showing 22-02-2019.
- Doctor**: Dropdown menu showing Dr. Amandeep.
- Side Effects**: A list of checkboxes: Headache, Fatigue, Anemia, Nausea, Insomnia, Diarrhea, Weakness, Rash, Depression, Others, and No side effects (checked).
- Comments**: A large empty text area.
- Buttons**: CLOSE, REFRESH, LOCK, and a prominent red SAVE button.
- Status Fields**: 'Patient's Status' is 'SVR Achieved'. 'Patient's Interruption Status' is a dropdown menu currently open, showing 'Select', 'Yes', and 'No' options.

- b) To record information of such patients, on every page there is an option to record the “Patient interrupted status” at the bottom of every page
- c) After selecting “Yes” to the above option, choose reason for interruption and patient referral (if applicable) and click on save (see picture below)

11.2

Interrupted Patient (2/2): Recording Reasons for Interruption

The screenshot shows a patient record page with a modal window titled "Patient's Interruption Status". The modal contains the following elements:

- Reason:** A dropdown menu with options: "Loss to followup", "Select", "Death", "Loss to followup" (highlighted), and "Select".
- Reason for LFU:** A dropdown menu with options: "Loss to followup" and "Select".
- Radio Buttons:** Two radio buttons labeled "SVR" and "NONE".
- Buttons:** A red "Save" button and a white "Close" button.

Four callout boxes provide instructions:

1. Select Reason for Interruption -Death -loss to Follow Up
2. Select reason for Death/ Loss to Follow Up from dropdown
3. Select "Patient referred for", if applicable - "ETR/SVR/None"
4. Press Save

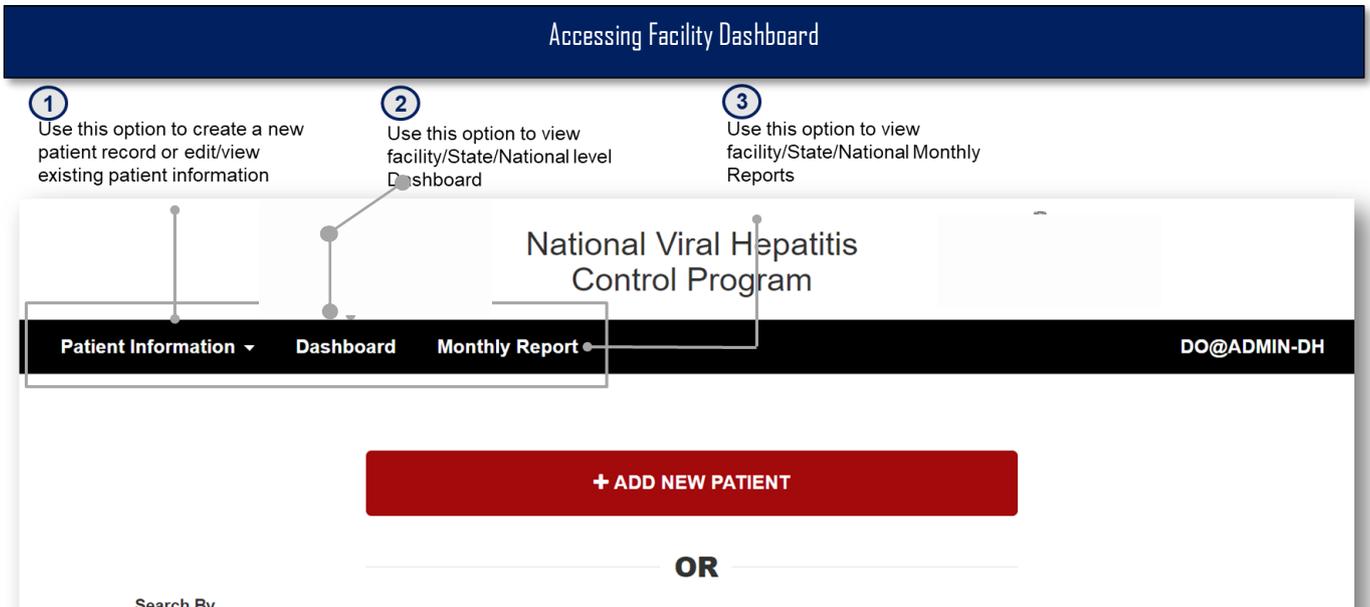
The background interface includes fields for "Regimen Prescribed", "Place Of Dispensation", "Adherence(%)", "Advised Next Visit Date", and "Comments". At the bottom, there are buttons for "CLOSE", "REFRESH", "LOCK", and "SAVE", along with status indicators for "Patient's Status" and "Patient's Interruption Status".

3.

How to view the
dashboard and monthly
report?

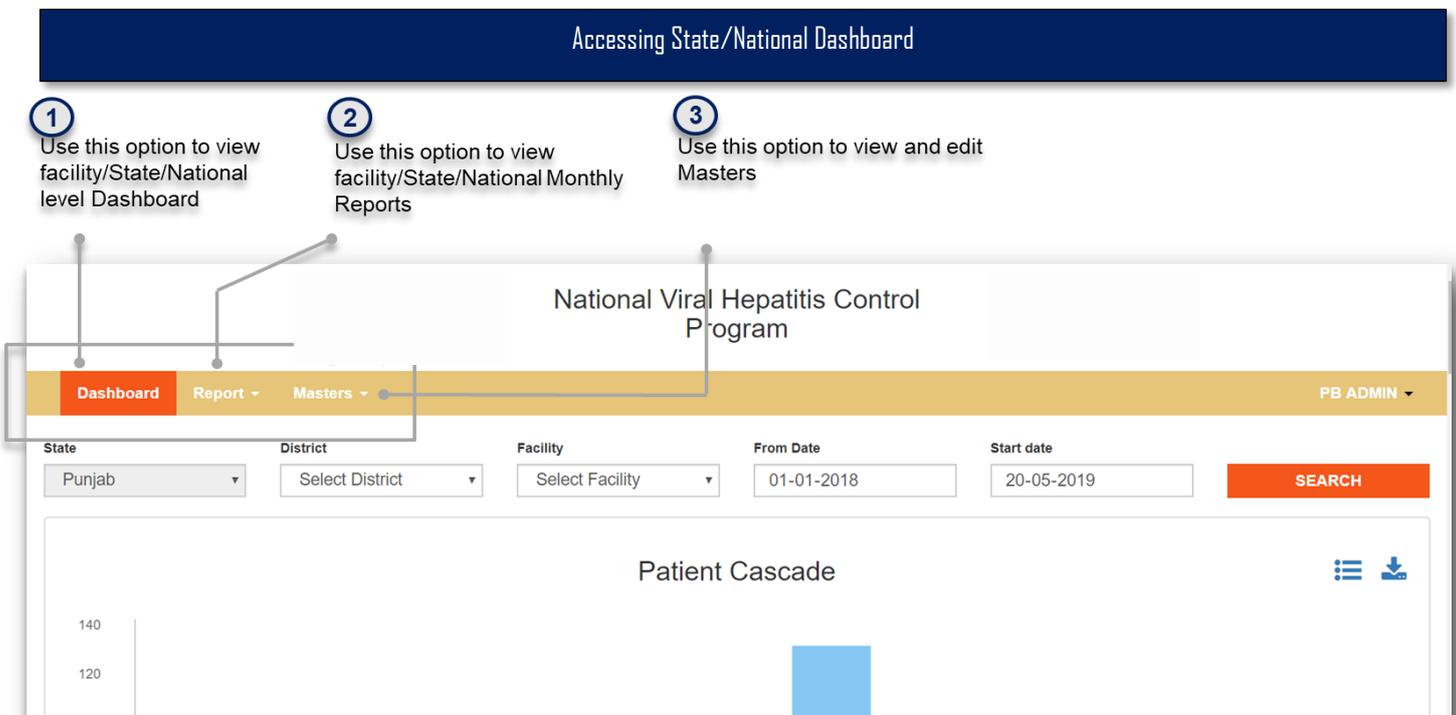
1. Viewing Dashboards

For facility based login access



- a) Select *Option 2* on the Home Page, as shown in the picture above, to view the *Dashboard* if you have a facility based login ID

For State or National level based login access



- b) Select *Option 1* on the Home Page, as shown in the picture above, to view the *Dashboard* if you have a State or National level based login ID

View for facility based users

Viewing Facility Dashboard

National Viral Hepatitis Control Program

Dashboard Monthly Report Patient Information - DO@ADMIN-DH

State: Punjab District: Amritsar Facility: Amritsar-dh From Date: 01-01-2019 Start date: 06-05-2019 SEARCH

Patient Cascade

Category	Value (Approximate)
Antibody Positive	1500
Chronic HCV	1400
Initiated on Treatment	1400
Treatment Completed	1000
SVR Test Done	1000
Treatment Successful	800

Annotations: 1. Select time period, 2. Download, Note: These options will be auto-selected based on log-in and cannot be changed.

View for State based users

Viewing State Dashboard

National Viral Hepatitis Control Program

Dashboard Report Masters - PB ADMIN

State: Punjab District: Select District Facility: Select Facility From Date: 01-01-2018 Start date: 20-05-2019 SEARCH

Patient Cascade

Category	Value (Approximate)
Antibody Positive	35
Chronic HCV	65
Initiated on Treatment	35
Treatment Completed	135
SVR Test Done	135
Treatment Successful	135

Annotations: 1. Select District and Facility, 2. Select time period, 3. Download as table or picture, Note: State name is auto-filled and cannot be edited.

View for National level based users

The screenshot displays the 'National Viral Hepatitis Control Program' dashboard. At the top, there is a navigation bar with 'Dashboard', 'Monthly Report', and 'Masters' menus. A 'login-log' button and a user profile dropdown 'Chai_admin' are also visible. Below the navigation bar, there are three dropdown menus for 'State', 'District', and 'Facility', each with a 'Select' option. To the right of these are 'From Date' (01-01-2019) and 'Start date' (06-05-2019) input fields, followed by a 'SEARCH' button. The main content area features a 'Patient Cascade' bar chart with six categories: Antibody Positive, Chronic HCV, Initiated on Treatment, Treatment Completed, SVR Test Done, and Treatment Successful. The y-axis represents the number of patients, ranging from 0 to 2000. On the right side of the chart, there are icons for 'download' and 'table'.

Annotations on the screenshot include:

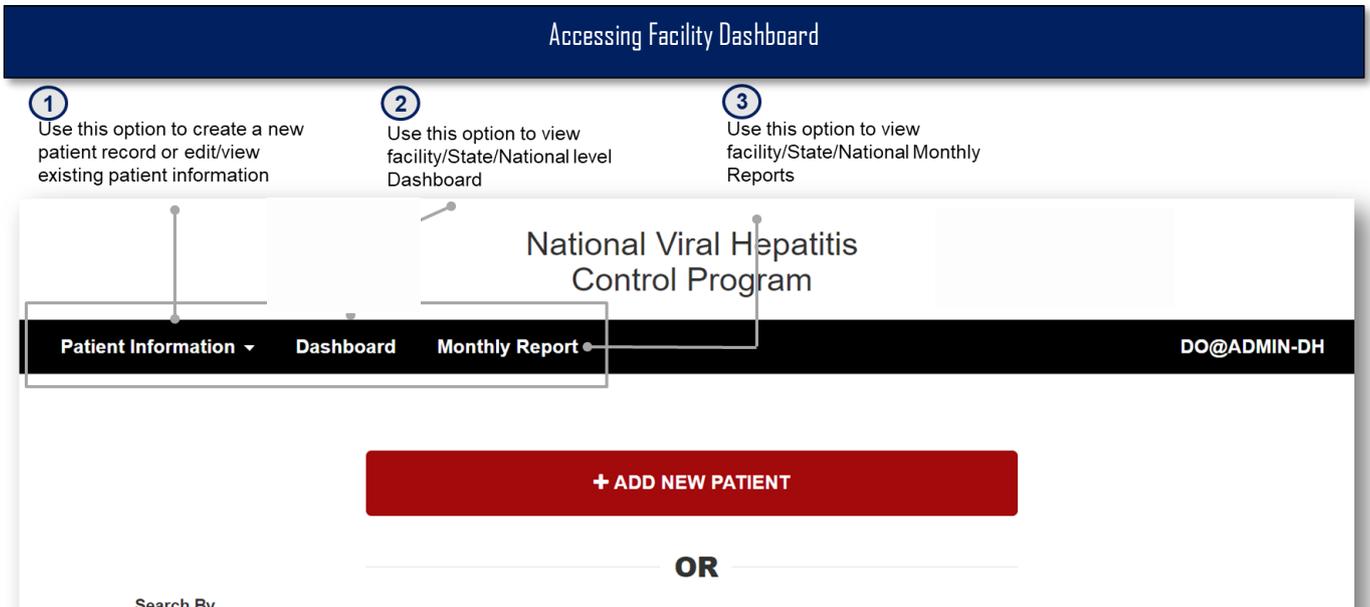
- 1. Select State, District and Facility
- 2. Select time period
- 3. Download as table or picture

Steps for viewing dashboard

- a) From the drop down options, select State, District and Facility for which you want to view the dashboard
 - a. For facility users the State and District name will be auto filled and cannot be changed
 - b. For the State based users the State name will be auto filled and cannot be changed
 - i. District and Facility name can be selected
 - c. For National level based users, the State, District and Facility name can be selected
- b) To view the dashboard for all districts of a State (if you are a National level user), only select State name from the drop down options and leave District and Facility name unselected (this point is not applicable for State level users)
- c) To view the dashboard for all facilities of a particular district, only select State name (if you are a National level user), followed by District name (if you are a National or State level user) and leave Facility name unselected
- d) Select 'From Date' and 'To Date'
 - a. 'From Date' is set to beginning of the month by default
 - b. 'To Date' is set to today's date by default
- e) Click on 'Search'
- f) To download any analysis, click on the 'download' icon on the upper right corner of the analysis

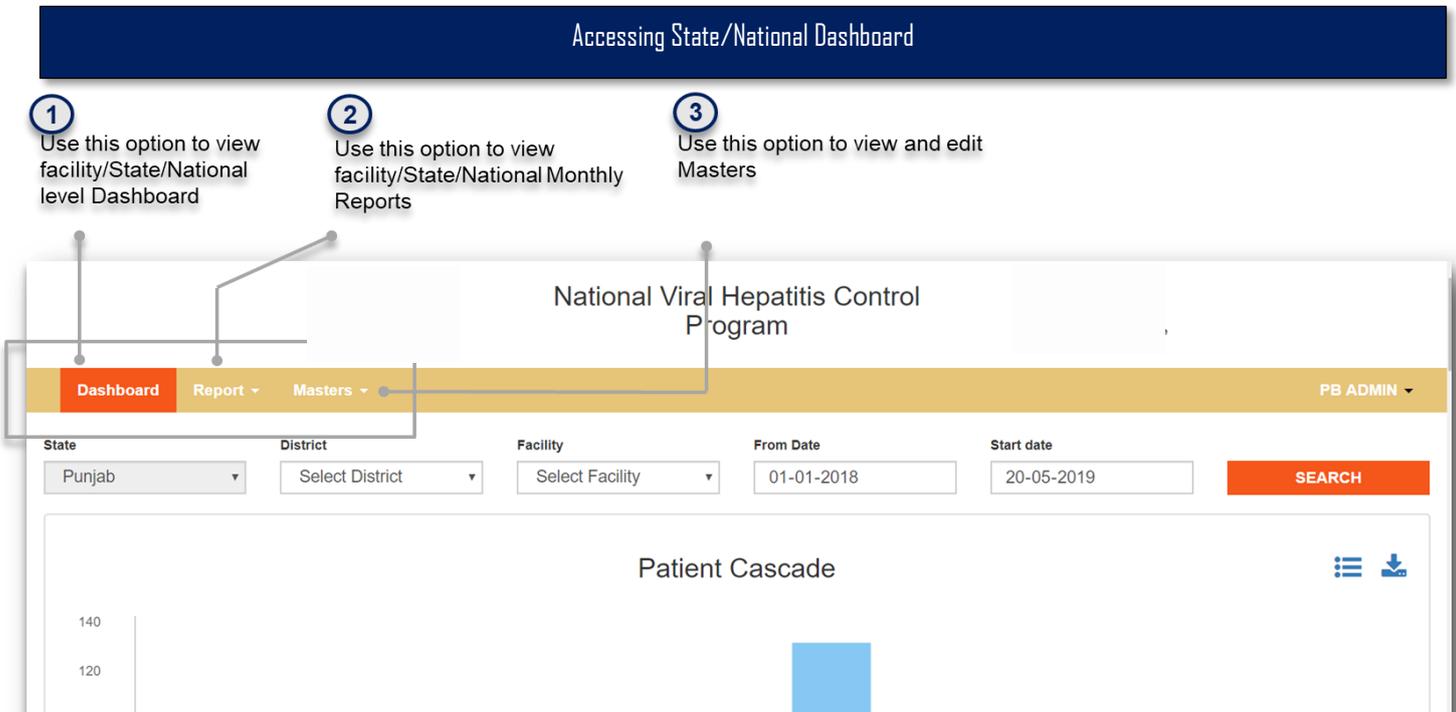
2. Viewing Monthly Reports

For facility based login access



- a) Select *Option 3* on the Home Page, as shown in the picture above, to view the *Dashboard* if you have a facility based login ID

For State or National level based login access



- b) Select *Option 2* on the Home Page, as shown in the picture above, to view the *Dashboard* if you have a State or National level based login ID

View for Facility based users

Accessing Monthly Reports at the Facility level

National Viral Hepatitis Control Program

Patient Information ▾ Dashboard Report ▾ DO@ADMIN-DH ▾

Monthly Report

State: Punjab ▾

District: AMRITSAR ▾

Facility: Amritsar-DH ▾

From Date: 01-05-2019

To date: 31-05-2019

1 Select time period

2 Download as excel file

SEARCH

Sno	1. Number of Hepatitis C infected people seeking care at the treatment center (Registering in Care)	Adult Male	Adult Female	Children < 18 years	Total
1.1	Number of new persons registered in during this month	5	1	3	9
Sno	2. Initiation of Treatment	Adult Male	Adult Female	Children < 18 years	Total
2.1	Number of new patients started on Treatment during this month	0	0	0	0
2.2	Number of patients on Treatment "transferred in" during this Month				0

These options will be auto-selected based on log-in and cannot be changed

View for State based users

Accessing Monthly Reports at the State level

Monthly Report

Dashboard Report ▾ Masters ▾ PB ADMIN ▾

State: Punjab ▾

District: Select District ▾

Facility: Select Facility ▾

From Date: 01-05-2019

To date: 20-05-2019

2 Select time period

3 Download as excel file

SEARCH

Sno	1. Number of Hepatitis C infected people seeking care at the treatment center (Registering in Care)	Adult Male	Adult Female	Children < 18 years	Total
1.1	Number of new persons registered in during this month	3	1	3	7
Sno	2. Initiation of Treatment	Adult Male	Adult Female	Children < 18 years	Total
2.1	Number of new patients started on Treatment during this month	0	0	0	0
2.2	Number of patients on Treatment "transferred in" during this Month				0

State name is auto-filled and cannot be edited

1 Select District and Facility

View for National level based users

Accessing Monthly Reports at the National Level

Dashboard Report Masters login-log Chai_admin

Monthly Report

1 Select State, District and Facility

2 Select time period

3 Download as excel file

State	District	Facility	From Date	To date
Select State	Select District	Select Facility	01-05-2019	20-05-2019

SEARCH

Sno	1. Number of Hepatitis C infected people seeking care at the treatment center (Registering in Care)	Adult Male	Adult Female	Children < 18 years	Total
1.1	Number of new persons registered in during this month	6	2	3	11
Sno	2. Initiation of Treatment	Adult Male	Adult Female	Children < 18 years	Total
2.1	Number of new patients started on Treatment during this month	0	0	0	0
2.2	Number of patients on Treatment "transferred in" during this Month				0

Steps for viewing monthly reports

- a) From the drop down options, select State, District and Facility for which you want to view the monthly reports
 - a. For facility users the State and District name will be auto filled and cannot be changed
 - b. For the State based users the State name will be auto filled and cannot be changed
 - i. District and Facility name can be selected
 - c. For National level based users, the State, District and Facility name can be selected
- b) To view the aggregated monthly reports for all districts of a State (if you are a National level user), only select State name from the drop down options and leave District and Facility name unselected (this point is not applicable for State level users)
- c) To view the aggregated monthly reports for all facilities of a particular district, only select State name (if you are a National level user), followed by District name (if you are a National or State level user) and leave Facility name unselected
- d) Select 'From Date' and 'To Date'
 - a. 'From Date' is set to beginning of the month by default
- e) Click on 'Search'
- f) To download the monthly report, click on the 'excel' icon on the upper right corner of the reporting table

4.

How to edit masters?

1. What are Masters?

State and National level administrators have access to 'Masters' on their homepage (as shown below). The 'Masters' option can be used to add or edit users, facilities, selection options under various important fields such as risk factors, drug names, drug strengths, regimen names and rules. This option is only available for State and National level users.

State level users can access Masters to add/delete a user at the facility level or add/delete a facility name or, edit details of existing users and facilities.

National level users can use the Masters to add/delete a State level user or edit details of existing users. She/he can also add or change risk factors, drug names, drug strength and regimens that will be applicable throughout the country.

Step to access Masters

Accessing State/National Masters

1

Use this option to view facility/State/National level Dashboard

2

Use this option to view facility/State/National Monthly Reports

3

Use this option to view and edit Masters

The screenshot shows the NVHCP-MIS dashboard. At the top, there is a dark blue header with the text 'National Viral Hepatitis Control Program'. Below this is a navigation bar with 'Dashboard', 'Report', and 'Masters' (highlighted in yellow). To the right of the navigation bar are 'login-log' and 'Chai_admin' dropdown menus. Below the navigation bar, there are search filters for 'State' (with a 'Select State' dropdown), 'Facility' (with a 'Select Facility' dropdown), 'From Date' (with a date input '01-01-2018'), and 'Start date' (with a date input '31-05-2019'). A 'SEARCH' button is located to the right of these filters. Below the search filters, there is a 'Patient Cascade' chart with a y-axis ranging from 100 to 140 and a single blue bar. A dropdown menu is open under the 'Masters' navigation item, listing options: 'Manage Users', 'Facilities', 'Risk Factors', 'Drugs', 'Drug Strengths', 'Manage Regimen', 'Manage Regimen Rules', and 'Manage Lookup'.

a) Click on *Option 3* 'Masters' on the Home Page and select desired Master from the drop down

2. Adding/Editing/Deleting a User

Steps for Adding/Editing/Deleting a User for National and State Level Users

Adding/Editing/Deleting a User

National Viral Hepatitis Control Program

Dashboard Monthly Report Masters PB ADMIN

Users List Use this option to add a user

User Name	User Type	Commands
chai_admin	Admin	
Test_ASR	State User	
Test_BNL	State User	
Test_GSP	State User	
Test_LDH	State User	
TestG_PTL	State User	

Add User

1 Full Name*

3 Password*

5 Email*

7 User Type*

8 State*

10 Facility

2 Username*

4 Re-type Password*

6 Mobile

9 District*

Add New User

Use this option to edit a user

Use this option to delete a user

- a) Add a new user by entering details in *fields #1-#10*
- b) Enter full name in *field #1*, for e.g., Roop Kumar in the format <first name> <space> <last name>
- c) Assign username in *field #2* as per rules shared by NVHMU
- d) Assign password in *field #3* as per rules shared by NVHMU
- e) Re-type password in *field #4*
- f) Assign login ID in *field #5* as per rules shared by NVHMU
- g) Enter user's mobile number in *field #6*
- h) Select user type for the dropdown option viz. Admin (State), District or Facility user in *field #7*
- i) Select State (if National level user) in *field #8*
- j) Select District (if State level user) in *field #9*
- k) Select Facility Name in *field #10*
- l) Click on Add new user

3. Adding/Editing/Deleting a Facility

Steps for Adding/Editing/Deleting a Facility for State Level Users

National Viral Hepatitis Control Program

Dashboard Monthly Report **Masters** PB ADMIN

Facility Name	Commands
Amritsar-DH	
Amritsar-GMC	
Barnala-DH	
Bathinda-DH	
Faridkot-DH	
Faridkot-GMC	
Fatehgarh Sahib-DH	
Fazilka-DH	

Add Facility

1 District (Select) 2 Name (Full Name)

3 Facility Code (Full Name) 4 Facility Type (Select)

5 Address (Address)

6 City (City) 7 Pin (PIN)

8 Phone (Phone) 9 Email (Email)

Add New Facility

Facility Contacts Commands

- Enter details in *field # 1-9* for adding a new facility
- Select District in *field # 1* from the drop down
- Enter full name in *field #2*, for e.g., Roop Kumar in the format <first name> <space> <last name>
- Enter Facility Code shared by NVHMU in *field # 3*
- Add facility type i.e. DH, GMC, etc. in *field # 4*
- Add complete facility address in *field # 5*
- Add city name in *field # 6*
- Add pin code in *field # 7*
- Add facility phone number in *field #8*
- Add facility email in *field #9*
- Click on 'Add new facility'

4. Adding/Editing/Deleting a Risk Factor

Steps for adding/editing/deleting a risk factor for National Level Users

Adding/Editing/Deleting a Risk Factor

National Viral Hepatitis Control Program

Dashboard Report **Masters** PB ADMIN

Risk Factor List +

Risk Factor	Commands
High risk sexual behaviour	
History of IVDU (intravenous drug use)	
Occupation exposure to blood/body fluids	
Needlestick injury	
Child born to HCV-positive mother	
Patient received blood transfusion	
On chronic haemodialysis	
History of surgery	

Add Risk Factor

Risk Factor 1 Add New Risk Factor

Use this option to add a risk factor → (points to + icon)

Use this option to edit a risk factor → (points to edit icon)

Use this option to delete a risk factor → (points to delete icon)

- a) Add risk factor name in *field #1*
- b) Click 'Add a New Risk Factor'

5. Adding/Editing/Deleting a Drug Name

Adding/Editing/Deleting a Drug Name

National Viral Hepatitis Control Program

Dashboard **Monthly Report** Masters PB ADMIN

Drug List +

S.no	Drug Name	ABBR.	Commands
1	Sofosbuvir	SOF	
2	Ribavirin	RBV	
3	Daclatasvir	DAC	
4	Velpatasvir	VEL	

Add Drug

Drug Name 1 Drug Abbreviation 1.1 Add Drug

Use this option to add a drug → (points to + icon)

Use this option to edit a drug → (points to edit icon)

Use this option to delete a drug → (points to delete icon)

Steps for adding/editing/deleting a Drug Name for National Level Users

- a) Add drug name in *field #1*
- b) Add drug abbreviation in *field #2*

6. Adding/Editing/Deleting Drug Strength

Steps for adding/editing/deleting a Drug Strength for National Level Users

Adding/Editing/Deleting Drug Strength

National Viral Hepatitis Control Program

Dashboard Monthly Report Masters PB ADMIN

Drug List +

S.no	Drug Name	ABBR.
1	Sofosbuvir	SOF
2	Ribavirin	RBV
3	Daclatasvir	DAC
4	Velpatasvir	VEL

Add Strength Use this option to add a drug

{Drug Name}

+ Add Strength
Use this option to add drug strength

Sno	Strength	Unit	Commands

Save

- a) Click on 'Add Strength'
- b) Enter strength in milligrams in the text box that appears upon clicking of the above
- c) Click on Save

7. Adding/Editing/Deleting a Regimen Name

Adding/Editing/Deleting a Regimen Name

National Viral Hepatitis Control Program

Dashboard Monthly Report Masters PB ADMIN

Regimen List +

Sno.	Regimen Name
1	Reg1: Sofosbuvir + Daclatasvir
2	Reg2 : Sofosbuvir + Velpatasvir
3	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin

Add Regimen Use this option to add a regimen

Regimen Name Reg4:

+ Add Drug To Regimen

Submit

Steps for adding/editing/deleting a Regimen Name for National Level Users

- a) Add regimen name in *field #1*
- b) Click on ‘Add drug to regimen’ to add drugs to be included in the regimen
- c) Click on Save

8. Adding/Editing/Deleting a Regimen Rule

Steps for adding/editing/deleting a Regimen Rule for National Level Users

Adding/Editing/Deleting a Regimen Rule

Dashboard Monthly Report **Masters** ▾
PB ADMIN

Regimen Rules

Add Rule

Use this option to edit a regimen rule, e.g., duration

Sno	Cirrhosis	Genotype	Regimen	Duration	Commands
1	Cirrhosis	Genotype 1	Reg2 : Sofosbuvir + Velpatasvir	12	✎ 🗑
2	Cirrhosis	Genotype 2	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin	12	✎ 🗑
3	Cirrhosis	Genotype 4	Reg2 : Sofosbuvir + Velpatasvir	12	✎ 🗑
4	Cirrhosis	Genotype 5	Reg2 : Sofosbuvir + Velpatasvir	12	✎ 🗑
5	Cirrhosis	Genotype 6	Reg2 : Sofosbuvir + Velpatasvir	12	✎ 🗑
6	No Cirrhosis	Genotype 1	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin	12	✎ 🗑
7	No Cirrhosis	Genotype 2	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin	12	✎ 🗑
8	No Cirrhosis	Genotype 3	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin	12	✎ 🗑
9	No Cirrhosis	Genotype 4	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin	12	✎ 🗑
10	No Cirrhosis	Genotype 5	Reg3 : Sofosbuvir + Velpatasvir + Ribavirin	12	✎ 🗑

Use this option to edit a regimen

Use this option to delete a regimen

- a) Click on ‘Add Rule’
- b) Select appropriate drop downs appearing on the screen after clicking on ‘Add rule’

Troubleshooting

Application and Web Portal



Instructions for App and Web:

- a) **Patient Registration should always be done only on one platform i.e. either on the MIS web portal or on the MIS Android application. Since the Android application can work in the offline mode, allowing Patient Registration on multiple platforms runs the risk of creating multiple patient records with the same UID.**
- b) **Facilities should identify a dedicated hardware for the Patient Registration module, either a desktop (*for MIS web portal*) or tablet/mobile (*for MIS Android App*) that will be used at all times for registering a new patient**

Instructions for App:

- a) Do not update tablet or mobile android version unless informed by SVHMU
- b) Ensure the application version, while logging in, is correct
- c) While entering from two sources/devices, make sure that data is uploaded post data-entry on one device and data is downloaded before making any new entries on another device
- d) Tablet or mobile must have free space of at-least 1 GB
 - a. Keep deleting cached data periodically to ensure availability of free space
- e) While uploading or downloading data on NVHCP app, don't open any other app during this process and retry if interrupted due to any reason

Frequently asked questions for App:

Q1 - Data uploaded but showing more entries than entered in the tablet or mobile.

A1 - Several fields such as advised visit dates, End of Treatment date, etc. are auto-calculated and, hence, the #records uploaded may be more than the #records manually entered by the user.

Q2 - Data not getting uploaded and showing error.

A2 - Check your internet connection; if the problem persists, then re-start the tablet.

Q3 - Getting error related to Application permission.

A3 - Go to app permissions and allow all Permissions for the app.

Q4 - Not able to download data.

A4 - Check your internet connection; in case problem persists, then restart tablet. If problem persists after re-starting tablet, then reinstall the application.

Q5 - App crashing or working slow.

A5 - Clear cached data from phone storage; If problem still persists, restart the tablet and reinstall the application

Frequently asked questions for App and Web:

Q1 - How to edit previously filled data in a patient record?

A1 - All users can edit information of the last saved page. For pages before that, data can only be edited by the nodal officer via unlocking the page. Rights to unlock previous pages can only be accessed through the login details of the nodal officer.

Q2 – Not able to login – forgot password or username.

A2 – Currently, option to change username or password does not exist in the app and in such a situation the user should contact the nodal officer for retrieving the login details.

Q3 – Internet got disconnected during data entry, what should I do?

A3 – If using the app, you can continue making data entry and sync data online when internet is available. If using the web, unsaved data will have to be re-entered.

Case Studies

Case Study 1

(You may assume information that is not provided)

Person named Ram Kumar who is 26 year-old man (weighing 65 kgs) visits your treatment centre (TC) on 15 February, 2018 with an OPD Registration Number as 1023562.

After initial discussions, he has confirmed history of IV drug use from age 17 to 23. He is now complaining of fatigue, affecting his work as a painter. Otherwise he is doing well, is not on any regular medications.

He was screened using **ELISA test (Anti-HCV) on 15 February 2018** and found to be **positive**. He was advised to get his **confirmatory Viral Load (VL)** test done at the State Lab on **16 February 2018**. He reached the state lab on 16 February 2018 and the Lab Technician drew his sample on the same day. Since, the facility had the VL platform the sample was not stored and no transportation was required.

His confirmatory **VL test was done the same day on 16 February 2018, the VL was 1066409**, and the report mentioned '**Detected**'. He collected his reports after waiting for a few hours on 16 February 2018 from the state lab. On 17 February 2018, he visited the TC and was then advised for the base line tests whose results came on the 19 February 2018 as follows:

Test	Result
AST	45
AST (Normal)	40
ALT	40
Albumin	4
Bilirubin	1
INR	1
Baseline Haemoglobin	13
S. Creatinine	1
Platelet Count	193000

The patient came back on 20 February 2018 and met the Treating Physician.

- Q1. Is the patient complicated/non-complicated?
- Q2. What is the regimen prescribe for the patient?
- Q3. What is the duration of prescription for the patient?

Take an assumption that the patient was 100% adherent and came on all the desired follow-up visits to complete the rest of the data entry.

His SVR was done on the suggested date (12 weeks after the last pill was taken) and the result came as '**Non-detected**'

Case Study 2

(You may assume information that is not provided)

Person named Kishen Kumar who is 40 year-old man (who is 70 kgs in weight) visits your treatment centre (TC) on 30 January 2018 with an OPD Registration Number as 1024759.

After initial discussions, he has confirmed of getting injections from local medical practitioner (unauthorised) 7 months ago and has experienced syringe use when he was 20 years old. He is having abdomen pain and is not on any other regular medications.

He was screened using **Rapid diagnostic test (Anti-HCV) on 30 January 2018** and found to be **positive**. He was advised to get his **confirmatory Viral Load (VL)** test done at the State Lab on 30 January 2018. He reached the state lab on 2 February 2018 and the Lab Technician drew his sample on the same day. Since, the facility had the VL platform the sample was not stored and no transportation was required.

His confirmatory **VL test was done on 2 February 2018, the VL was 576243**, and the report mentioned '**Detected**'. He collected his reports on 5 February 2018 from the state lab. On 7 February 2018, he visited the TC and was then advised for the base line tests whose results came on the 9 February 2018 as follows:

Test	Result
AST	115
AST (Normal)	40
ALT	73
Albumin	3
Bilirubin	1.7
INR	1
Baseline Haemoglobin	12.4
S. Creatinine	1
Platelet Count	52000

The patient came back on 11 February 2018 and met the Treating Physician.

Q1. Is the patient complicated/non-complicated?

Q2. What is the regimen prescribe for the patient?

Q3. What is the duration of prescription for the patient?

Q4. Should the patient be referred to MTC? If yes, kindly elaborate the reasons.

Hint: Fibroscan test date was done on 12 February 2018 and Encephalopathy was "None"; Ascites was 'None' and Variceal Bleed was 'No'

Take an assumption that the patient was 100% adherent and came on all the desired follow-up visits to complete the rest of the data entry.

His SVR was done on the suggested date (12 weeks after the last pill was taken) and the result came as '**Non-detected**'

Case Study 3

(You may assume information that is not provided)

Person named Mohan who is 29 year-old man (weighing 67 kgs) visits your treatment centre (TC) on 15 March, 2018 with an OPD Registration Number as 1023562.

After initial discussions, he has confirmed history of IV drug use. He is now complaining of fatigue, affecting his work as a driver.

He was screened using **ELISA test (Anti-HCV) on 15 March 2018** and found to be **positive**. He was advised to get his **confirmatory Viral Load (VL)** test done at the State Lab on **16 March 2018**. He reached the state lab on 16 March 2018 and the Lab Technician drew his sample on the same day. Since, the facility had the VL platform the sample was not stored and no transportation was required.

His confirmatory **VL test was done the same day on 16 March 2018, the VL was 1066409**, and the report mentioned '**Detected**'. He collected his reports after waiting for a few hours on 16 March 2018 from the state lab. On 17 March 2018, he visited the TC and was then advised for the base line tests whose results came on the 19 March 2018 as follows:

Test	Result
AST	49
AST (Normal)	40
ALT	39
Albumin	4
Bilirubin	1
INR	1
Baseline Haemoglobin	12
Platelet Count	50000
Creatinine	0.8

The patient came back on 20 March 2018 and met the Treating Physician.

- Q1. Is the patient complicated/non-complicated?
- Q2. What is the regimen prescribe for the patient?
- Q3. What is the duration of prescription for the patient?
- Q4. Should the patient be referred to MTC? If yes, kindly elaborate the reasons.

Hint: Fibroscan test date was done on 22 March 2018 and Encephalopathy was "Severe"; Ascites was 'Severe' and Variceal Bleed was 'Yes'

Take an assumption that the patient was 100% adherent and came on all the desired follow-up visits to complete the rest of the data entry.

His SVR was done on the suggested date (12 weeks after the last pill was taken) and the result came as '**Non-detected**'

Case Study 4

(You may assume information that is not provided)

Person named Krishna Kumari who is 40 year-old woman (who is 52 kgs in weight) visits your treatment centre (TC) on 28 February 2018 with an OPD Registration Number as 1024759.

After initial discussions, she has confirmed of dental treatment from unauthorised dentist 9 months ago. She is having abdomen pain and not pregnant.

She was screened using **Rapid diagnostic test (Anti-HCV)** on 28 February 2018 and found to be **positive**. She was advised to get his **confirmatory Viral Load (VL)** test done at the State Lab on 28 February 2018. She reached the state lab on 2 March 2018 and the Lab Technician drew his sample on the same day. Since, the facility had the VL platform the sample was not stored and no transportation was required.

Her confirmatory **VL test was done on 2 March 2018, the VL was 576200**, and the report mentioned '**Detected**'. She collected her reports on 5 March 2018 from the state lab. On 7 March 2018, she visited the TC and was then advised for the base line tests whose results came on the 9 March 2018 as follows:

Test	Result
AST	120
AST (Normal)	40
ALT	79
Albumin	4
Bilirubin	1.9
INR	1
Baseline Haemoglobin	11
Platelet Count	50000
Creatinine	1.1

The patient came back on 11 March 2018 and met the Treating Physician.

Q1. Is the patient complicated/non-complicated?

Q2. What is the regimen prescribe for the patient?

Q3. What is the duration of prescription for the patient?

Q4. Should the patient be referred to MTC? If yes, kindly elaborate the reasons.

Hint: Fibroscan test date was done on 12 March 2018 and Encephalopathy was "None"; Ascites was 'Mild to Moderate' and Variceal Bleed was 'Yes'

Take an assumption that the patient was 100% adherent and came on all the desired follow-up visits to complete the rest of the data entry.

His SVR was done on the suggested date (12 weeks after the last pill was taken) and the result came as '**Non-detected**'.

Case Study 5

(You may assume information that is not provided)

Person named Hema Kumari who is 50 year-old woman (who is 62 kgs in weight) visits your treatment centre (TC) on 28 February 2018 with an OPD Registration Number as 1024849.

She's is an experienced patient and is seeking re-treatment after confirming she went to get a tattoo a couple of months ago. She complained of persistent abdomen pain.

She had undergone a treatment last year and had achieved SVR.

She was screened using **Rapid diagnostic test (Anti-HCV)** on 28 February 2018 and found to be **positive**. She was advised to get his **confirmatory Viral Load (VL)** test done at the State Lab on 28 February 2018. She reached the state lab on 2 March 2018 and the Lab Technician drew her sample on the same day. Since, the facility had the VL platform the sample was not stored and no transportation was required.

Her confirmatory **VL test was done on 2 March 2018, the VL was 567200**, and the report mentioned '**Detected**'. She collected her reports on 5 March 2018 from the state lab. On 7 March 2018, she visited the TC and was then advised for the base line tests whose results came on the 9 March 2018 as follows:

Test	Result
AST	100
AST (Normal)	40
ALT	62
Albumin	3
Bilirubin	1.7
INR	1
Baseline Haemoglobin	10.2
Platelet Count	70000
Creatinine	0.9

The patient came back on 11 March 2018 and met the Treating Physician.

- Q1. Is the patient complicated/non-complicated?
- Q2. What is the regimen prescribe for the patient?
- Q3. What is the duration of prescription for the patient?
- Q4. Should the patient be referred to MTC? If yes, kindly elaborate the reasons.

Hint: Fibroscan test date was done on 12 March 2018 and Encephalopathy was "None"; Ascites was 'Mild to Moderate' and Variceal Bleed was 'Yes'

Take an assumption that the patient was 100% adherent and came on all the desired follow-up visits to complete the rest of the data entry.

His SVR was done on the suggested date (12 weeks after the last pill was taken) and the result came as '**Non-detected**'.

Case Study 6

(You may assume information that is not provided)

Person named Suresh Kumar who is 45 year-old man (who is 72 kgs in weight) visits your model treatment centre (MTC) on 8 February 2018 with an OPD Registration Number as 1025679.

Suresh is **HIV positive** and got tested for it last year. He has been feeling abdomen pain and fatigue regularly.

He was screened using **Rapid diagnostic test (Anti-HCV)** on 8 February 2018 and found to be **positive**. He was advised to get his **confirmatory Viral Load (VL)** test done at the State Lab on 8 February 2018. He reached the state lab on 12 February 2018 and the Lab Technician drew his sample on the same day. Since, the facility had the VL platform the sample was not stored and no transportation was required.

His confirmatory **VL test was done on 12 February 2018, the VL was 536200**, and the report mentioned '**Detected**'. He collected his reports on 15 February 2018 from the state lab. On 17 February 2018, he visited the TC and was then advised for the base line tests whose results came on the 19 February 2018 as follows:

Test	Result
AST	90
AST (Normal)	40
ALT	70
Albumin	2
Bilirubin	1.5
INR	1
Baseline Haemoglobin	14
Platelet Count	67000
Creatinine	0.9

The patient came back on 21 February 2018 and met the Treating Physician.

Q1. Is the patient complicated/non-complicated?

Q2. What is the regimen prescribe for the patient?

Q3. What is the duration of prescription for the patient?

Q4. If this patient was at the TC, should the patient be referred to MTC? If yes, kindly elaborate the reasons.

Hint: Fibroscan test date was done on 22 February 2018 and Encephalopathy was "None"; Ascites was 'None' and Variceal Bleed was 'No'

Take an assumption that the patient was 100% adherent and came on all the desired follow-up visits to complete the rest of the data entry.

His SVR was done on the suggested date (12 weeks after the last pill was taken) and the result came as '**Non-detected**'.

Medical Formulas and Logic

- a) Using the APRI and FIB-4 scores, how is a patient diagnosed as being an uncomplicated case of Hepatitis – C or a complicated case of Hepatitis C?

Diagnosis	Criteria
Uncomplicated (non-cirrhotic)	APRI<2 AND FIB-4<3.25
Complicated (cirrhotic)	APRI>=2 OR FIB-4>=3.25

$$\text{APRI} = (\text{AST}/\text{ASTN} * 100) / (\text{Platelet Count} / 1000)$$

$$\text{FIB-4} = \text{Age} * \text{AST} / (\text{ALT})^{1/2} / (\text{Platelet Count} / 1000)$$

- b) How many types of Complicated Hepatitis-C cases are there?

Broadly, a complicated Hepatitis-C case can either be a case of compensated cirrhosis or decompensated cirrhosis.

- c) How can we identify whether a patient has compensated cirrhosis or decompensated cirrhosis?

- Decompensated Cirrhosis: A patient presenting with ANY ONE of the following can be a case of *decompensated cirrhosis*:
 - Ascites (mild or moderate) OR,
 - Hepatic encephalopathy (mild or moderate) OR,
 - Total bilirubin >2.5 x ULN + prolonged prothrombin time (>3 second prolongation or INR >1.5) OR,
 - Variceal bleed
- Compensated Cirrhosis: A patient who is considered as a complicated case and does not present with any of the above four conditions can be considered a case of *compensated cirrhosis*

- d) How is Child Pugh score calculated?

Measure	1 point	2 points	3 points
Bilirubin	<2	2.0-3.0	>3
Albumin	>3.5	2.8-3.5	<2.8
INR	<1.7	1.71-2.3	> 2.3
Ascites	None	Mild to Moderate	Severe
Encephalopathy	None	Mild to Moderate	Severe
Child Score	Sum of points for above five factors		
Child–Pugh Class A:	5-6 points		
Child–Pugh Class B:	7-9 points		
Child–Pugh Class C:	10-15 points		

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