



Pharmacy Information System (PhIS) and Clinic Pharmacy System (CPS)

System Design Document (SDD)

Medication Counselling

(MC)

Version	: 1.3
Document ID	: PhIS_CPS/SDD/MC



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**REVISION HISTORY**

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Reviewed By:

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Date :		Date :	



Table of Content

1. INTRODUCTION.....	4
2. PURPOSE.....	4
3. DETAILED SYSTEM DESIGN.....	5
3.1 MEDICATION COUNSELLING OVERVIEW	5
3.1.1 <i>Block Diagram</i>	5
3.1.2 <i>Purpose</i>	5
3.1.3 <i>Screen Navigation Diagram</i>	6
3.2 MEDICATION COUNSELLING LISTING.....	7
3.2.1 <i>Detail Functionality and Screen</i>	7
3.2.1.1 Screen Design.....	7
3.2.1.2 Application Business Rules	9
3.2.1.3 Input Validation Rules.....	10
3.3 INDIVIDUAL MEDICATION COUNSELLING ORDER.....	13
3.3.1 <i>Detail Functionality and Screen</i>	13
3.3.1.1 Screen Design.....	13
3.3.1.2 Application Business Rules	15
3.3.1.3 Input Validation Rules.....	16
3.4 GROUP MEDICATION COUNSELLING ORDER	19
3.4.1 <i>Detail Functionality and Screen</i>	19
3.4.1.1 Screen Design.....	19
3.4.1.2 Application Business Rules	20
3.4.1.3 Input Validation Rules.....	21
3.5 INDIVIDUAL MEDICATION COUNSELLING REPORTING.....	24
3.5.2 <i>Detail Functionality and Screen</i>	24
3.5.2.1 Screen Design.....	24
3.5.2.2 Application Business Rules	25
3.5.2.3 Input Validation Rules.....	26
3.6 GROUP MEDICATION COUNSELLING REPORTING – REPORTING	29
3.6.1 <i>Detail Functionality and Screen</i>	29
3.6.1.1 Screen Design.....	29
3.6.1.2 Application Business Rules	30
3.6.1.3 Input Validation Rules.....	30
3.7 MC REPORTING – CPI	32
3.7.1 <i>Detail Functionality and Screen</i>	32
3.7.1.1 Screen Design.....	32
3.7.1.2 Application Business Rules	33



3.7.1.3 Input Validation Rules.....33

3.8 MC REPORTING – CP435

3.8.1 *Detail Functionality and Screen*35

3.8.1.1 Screen Design35

3.8.1.2 Application Business Rules35

3.8.1.3 Input Validation Rules.....36

3.9 INTEGRATION38

4. REFERENCES.....39

5. ACRONYMS.....39

6. APPENDIX.....39



1. Introduction

Pharmaniaga Logistics Sdn. Bhd. executes software development, enhancement and maintenance projects for its clients. The term “project” is used to describe the full set of activities from the time the proposal is accepted and project initiation note or contract is signed to the time all the software and services are delivered according to the acceptance of the proposal/contract.

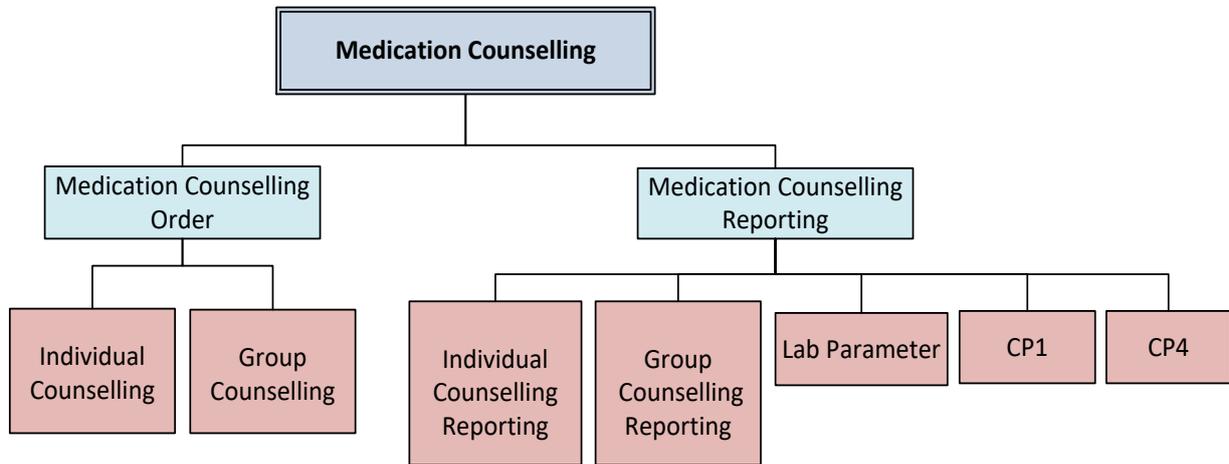
This process is to ensure both user requirements and software requirements of the projects developments are gathered appropriately from stakeholders and are documented in User Requirements Specification (URS) and System Design Documentation (SDD) specifically.

2. Purpose

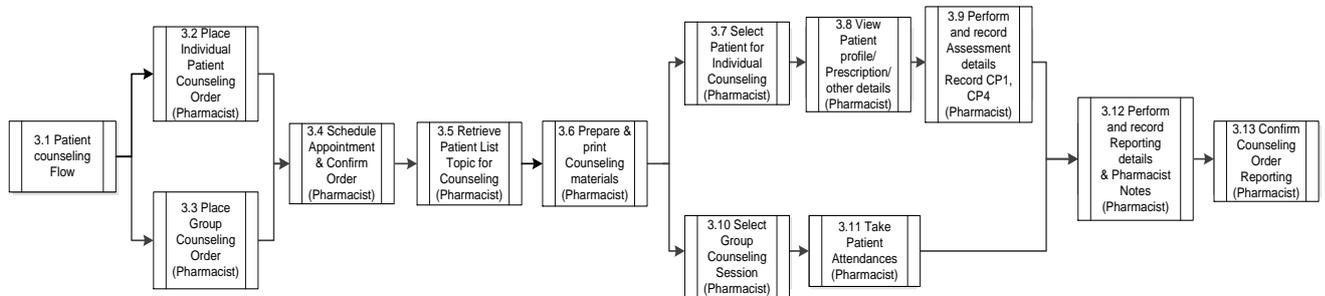
The purpose of the document is to describe the purpose and functionality of the software product requested by client. This document outlines the project's details, requirements, interface, design issues, and components to ensure that each requirement has been met.

3. Detailed System Design

3.1 Medication Counselling Overview



3.1.1 Block Diagram

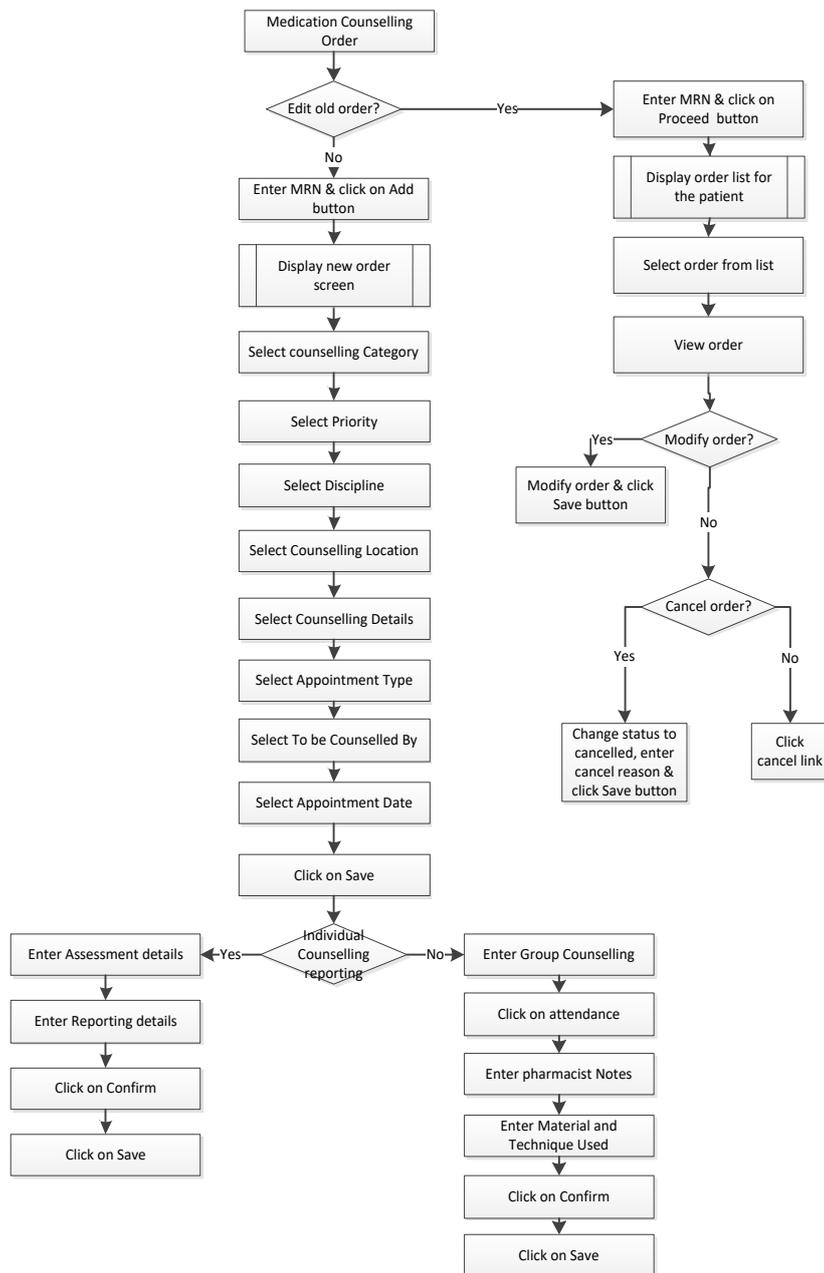


3.1.2 Purpose

This document is meant to detail the system design features of Medication Counselling Module. In this module, user will be able to place orders for medication counselling and scheduling its' appointment for individual or group counselling sessions.



3.1.3 Screen Navigation Diagram





3.2 Medication Counselling Listing

3.2.1 Detail Functionality and Screen

3.2.1.1 Screen Design

ID	MC.SD1
Description	To search existing MC scheduled/ reporting record

Diagram

The screenshot shows the 'MEDICATION COUNSELLING REPORTING' interface for individual counselling. It features a search filter panel on the left with dropdowns for Counselling Location (All), MRN, Counselling Category (Individual), Discipline (All), Ordered by, Ordered from, and To be Counselling by. On the right, there are filters for Priority (All), Patient Name, Appointment Type (All), Status (Scheduled), Appointment Date, Ordered To, and IC No/Other Identification. A 'Search' button is located below the filters. The search results table below shows a list of individual counselling records with columns for MRN, Patient Name, IC No/Other Identification, Priority, Appointment Type, Appointment Date, Status, Requester, and Request Date.

MRN	Patient Name	IC No/Other Identification	Priority	Appointment Type	Appointment Date	Status	Requester	Request Date
HPSF	[REDACTED]	[REDACTED]	Routine	Follow Up	31/01/2018 01:00 PM	Scheduled	[REDACTED]	09/01/2018
HPSF	[REDACTED]	[REDACTED]	Urgent	Follow Up	27/01/2018 02:30 PM	Scheduled	[REDACTED]	09/01/2018
HPSF	[REDACTED]	[REDACTED]	Urgent	Follow Up	27/01/2018 02:30 PM	Scheduled	[REDACTED]	09/01/2018
HPSF	[REDACTED]	[REDACTED]	Urgent	Follow Up	27/01/2018 02:30 PM	Scheduled	[REDACTED]	09/01/2018
HPSF	[REDACTED]	[REDACTED]	Routine	Follow Up	12/01/2018 11:00 AM	Scheduled	[REDACTED]	12/01/2018
HPSF	[REDACTED]	JL	Routine	Follow Up	11/01/2018 10:30 AM	Scheduled	[REDACTED]	11/01/2018

MC.SD1 – MC Listing screen(Individual)

The screenshot shows the 'MEDICATION COUNSELLING REPORTING' interface for group counselling. The search filter panel on the left has 'Counselling Category' set to 'Group'. The search results table below shows a list of group counselling records with columns for Counselling Order No, Appointment Date, and Status. The first record is expanded to show a table of individual patients within that group, including their MRN and Patient Name.

Counselling Order No	Appointment Date	Status
MC1800025055	23/01/2018	Scheduled
MC1800025015	05/01/2018	Scheduled
MC1800025013	03/01/2018	Scheduled

MRN	Patient Name
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

MC.SD1 – MC Listing screen(Group)



Patient Search		
Patient MRN	<input type="text"/>	Patient Name <input type="text"/>
IC No/Other Identification	<input type="text"/>	<input type="button" value="Search"/> <input type="button" value="Refresh"/>
< < 1 / 1 > >		
Patient MRN	Patient Name	IC No/Other Identification
No Records Found!		

MC.SD1 – Patient Search (Individual Counselling)

Notes	<ul style="list-style-type: none">• Click on search button to search for medication counselling record double click to open the record• Medication Counselling Order screen display the screen for Pharmacist to set appointment for counselling. There are two types of counselling order:<ul style="list-style-type: none">i. Individualii. Group• Click “Select Registered Patient” and click on the ‘Create New Record (+)’ button to create new individual counselling order• Click on the ‘Create New Record (+)’ button to create new group counselling order
Cross References	PhIS_CPS_SDD_MC v1.2

3.2.1.2 Application Business Rules

No.	Name	Description
1.	Search Transaction	<p>Click on the 'Search' button to search the existing record:</p> <ol style="list-style-type: none"> i. By default filter record by : <ul style="list-style-type: none"> - Status = Scheduled - Counselling Category = Individual Counselling - Counselling Location = All - Priority = All - Discipline = All - Appointment Type = All ii. If user enters multiple search criteria, system will display the search results based on the specified criteria iii. If no criteria entered, system will display all transactions <p>System will display the records that match any keyword entered regardless of the letter type (uppercase or lowercase).</p>
2.	View search result in listing page if Counselling Category is Individual Counselling	<p>Columns in search result listing are displayed based on:</p> <ol style="list-style-type: none"> i. MRN: Display patient MRN No. ii. Patient Name: Display patient registered name. iii. IC No/ Other identification: Display patient IC No or Other identification no as registered in patient management screen. iv. Priority: Display priority value selected during Medication Counselling Order. v. Appointment Type: Display appointment type selected during Medication Counselling Order. vi. Appointment Date: Display appointment date selected during Medication Counselling Order. vii. Status: Display value from 'Status' field in transaction screen. viii. Requester: Field will display all user (active and inactive) as per in Maintenance > Security > User Profile screen. Based on user login name. ix. Requester Date: Display created date selected during Medication Counselling Order.
3.	View search result in listing page if Counselling Category is Group Counselling	<p>Columns in search result listing are displayed based on:</p> <ol style="list-style-type: none"> i. Counselling Order No: Display counselling order number generated after counselling order created. ii. Appointment Date: Display appointment date selected during Medication Counselling Order. iii. Status: Display value from 'Status' field in transaction screen. <p>Click to expand record and will display below:</p> <ul style="list-style-type: none"> - MRN: Display list of patient MRN been registered into the group counselling - Patient Name: Display list of patient name been registered into the group counselling

No.	Name	Description
4.	Select Registered Patient	Click on the search icon to search registered patient using below criteria: <ol style="list-style-type: none"> i. Patient MRN ii. Patient Name iii. IC No/Other Identification Refer to diagram : <i>MC.SD1 – Patient Search</i> Click on the 'Create New Record (+)' button to create new individual counselling order
5.	Add New Group Counselling	Click on the 'Create New Record (+)' button to create new group counselling order
6.	Refresh Listing	Click on the 'Refresh' button to reset all search criteria: <ol style="list-style-type: none"> i. Counselling Location – Display All ii. Priority – Display All iii. MRN No. – Display as empty field iv. Patient Name – Display as empty field v. Counselling Category – Individual vi. Appointment Type – Display All vii. Discipline – Display All viii. Status – Scheduled ix. Ordered By – Display as empty field x. Appointment Date From – Display as empty field xi. Ordered From – Display as empty field xii. Ordered To – Display as empty field xiii. To be Counselling By – Display as empty field xiv. IC No/ Other identification – Search results will display all records based on above reset search criteria.
7.	User access	Pharmacist is allowed to view/create/edit/confirm record however limited to the given user access role.

3.2.1.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
1.	Counselling Location	Field is default to 'All' and value to be selected from the dropdown. The value to be populated from System parameter, category- Counselling location. Expected values: <ul style="list-style-type: none"> • Bedside • CRP (Cardiac Rehabilitation Program) • Chronic Pain • Discharge 	Yes	Drop down list



No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none"> • Home Medication Review • Methadone Pharmacy • Others • Outpatient • Quit Smoking Clinic • Radiopharmaceutical 		
2.	Priority	Priority Default to 'All' however user can select specific status: <ul style="list-style-type: none"> • All • Routine • Urgent 	Yes	Drop down list
3.	MRN No.	Patient search to be provided. The list of patients to be populated from the database ph_patient. Searching Criteria as below: <ul style="list-style-type: none"> • Patient MRN • Patient Name • IC No/Other Identification 	No	Search Field
4.	Patient Name	Patient Name User to enter free text value with maximum 100 characters.	No	Text field
5.	Counselling Category	Counselling Category to be selected from the drop down. The list to be populated from System parameter, category- Counselling category. Expected values <ul style="list-style-type: none"> • Individual Counselling • Group Counselling 	Yes	Drop down list
6.	Appointment Type	Appointment Type Default to 'All' however user can select specific type: <ul style="list-style-type: none"> • All • Follow Up • Follow Up Reschedule • New • New Reschedule 	Yes	Drop down list
7.	Discipline	Discipline has to be selected from the drop down. The data is populated from the discipline Master.	Yes	Drop down list
8.	Status	Status Default to 'Scheduled' however user can select specific status: <ul style="list-style-type: none"> • All • Scheduled • Cancelled 	Yes	Drop down list

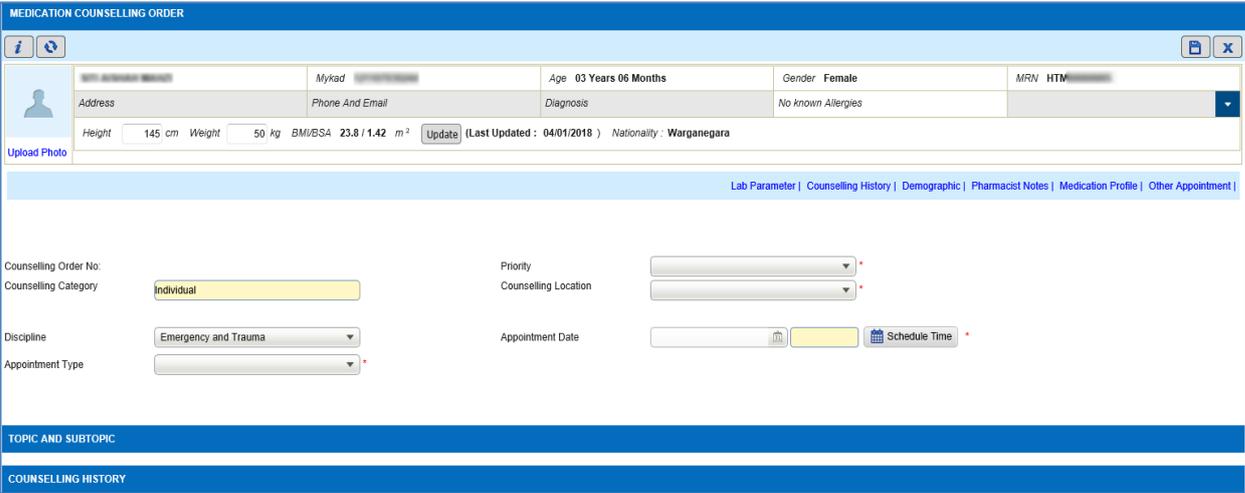


No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none">In progressConfirmed		
9.	Ordered By	Search field to be provided. The list of user to be populated from the database.	No	Search Field
10.	Appointment Date From	Appointment Date To User to select date from the calendar. Click on the calendar icon to display the calendar.	No	Calendar
11.	Ordered From	Ordered From – User to select date from the calendar. Click on the calendar icon to display the calendar.	No	Calendar
12.	Ordered To	Ordered To – User to select date from the calendar. Click on the calendar icon to display the calendar.	No	Calendar
13.	To be Counselling By	To be Counselling By User to enter free text value with maximum 100 characters.	No	Text field
14.	IC No/ Other identification	IC No/Other Identification User to enter free text value with maximum 100 characters.	No	Text field

3.3 Individual Medication Counselling Order

3.3.1 Detail Functionality and Screen

3.3.1.1 Screen Design

ID	MC.SD2
Description	This screen allows the user to create new individual counselling order for the selected registered patient.
<p>Diagram</p> <p>Individual Order</p> <p>i. Individual Medication Counselling order Screen</p>  <p style="text-align: center;"><i>MC.SD2 – Individual Medication Counselling Order screen</i></p> <p>ii. Schedule Time</p>	



COUNSELLING SCHEDULE				
Select	Time	MRN	Patient Name	Counselling Details
<input type="checkbox"/>	08:00 AM			
<input type="checkbox"/>	08:30 AM			
<input type="checkbox"/>	09:00 AM			
<input type="checkbox"/>	09:30 AM			
<input type="checkbox"/>	10:00 AM			
<input type="checkbox"/>	10:30 AM			
<input type="checkbox"/>	11:00 AM			
<input type="checkbox"/>	11:30 AM			
<input type="checkbox"/>	12:00 PM			
<input type="checkbox"/>	12:30 PM			
<input type="checkbox"/>	01:00 PM			
<input type="checkbox"/>	01:30 PM			
<input type="checkbox"/>	02:00 PM	XXXXXXXXXX-02 XXXXXXXXXX-82 XXXXXXXXXX-86	S. CHAIKUN... A. ... N. ...	Medication, Device Medication Chemotherapy
<input type="checkbox"/>	02:30 PM			
<input type="checkbox"/>	03:00 PM			
<input type="checkbox"/>	03:30 PM			
<input type="checkbox"/>	04:00 PM			
<input type="checkbox"/>	04:30 PM			
<input type="checkbox"/>	05:00 PM			
<input type="checkbox"/>	05:30 PM			
<input type="checkbox"/>	06:00 PM			
<input type="checkbox"/>	06:30 PM			
<input type="checkbox"/>	07:00 PM			
<input type="checkbox"/>	07:30 PM			
<input type="checkbox"/>	08:00 PM			
<input type="checkbox"/>	08:30 PM			
<input type="checkbox"/>	09:00 PM			
<input type="checkbox"/>	09:30 PM			
<input type="checkbox"/>	10:00 PM			
<input type="checkbox"/>	10:30 PM			
<input type="checkbox"/>	11:00 PM			
<input type="checkbox"/>	11:30 PM			

MC.SD2 – Schedule Time

iii. Topic and Subtopic

TOPIC AND SUBTOPIC				
Topic	Device	Remarks		
Subtopic				
Add/Update				
« < 1 / 1 > »				
No	Topic	Subtopic	Remarks	
1	Device	Insulin pen	Testing	

MC.SD2 – Topic and Subtopic

iv. Counselling History



COUNSELLING HISTORY					
Appointment Date	Counselling Category	Priority	Discipline	Counselling Location	Appointment Type
04/01/2018	Individual	Routine	Emergency and Trauma	Outpatient	New
12/01/2018	Individual	Urgent	Emergency and Trauma	Bedside	Follow Up

MC.SD2 – Counselling History

Notes	<ul style="list-style-type: none"> • Individual Medication Counselling Order screen display when user clicks on Add button after select patient from ‘Select registered patient’ field in medication counselling listing screen. • Click on Close button to close the screen and system shall go back to the listing page. • Click on ‘Save’ button to save the record. • Click on ‘Schedule’ button to schedule appointment and select time slot. (Refer to diagram <i>MC.SD2 – Schedule Time</i>) • Click on ‘Proceed to reporting’ button to proceed with medication counselling reporting screen
Cross References	PHIS_CPS_SDD_MC v1.2

3.3.1.2 Application Business Rules

No.	Name	Description
1.	Hyperlink	To display hyperlink as below: <ul style="list-style-type: none"> • Lab Parameter • Counselling History • Demographic • Pharmacist Notes • Medication Profile • Other Appointment
2.	Topic and Subtopic	This section shall display topic and subtopic fields. Topic is mandatory to be select and some topic will have subtopic which has been set in mater setup.
3.	Counselling History	This section shall display counselling history with the following information: <ul style="list-style-type: none"> • Appointment Date • Counselling Category • Priority • Discipline • Counselling Location • Appointment Type
4.	Save record	On click of Save button: <ul style="list-style-type: none"> • Record status become ‘Scheduled’ • Button ‘Proceed to Reporting’ will be active/ enable.



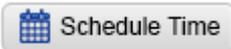
No.	Name	Description
5.	Cancel record	User able to 'Cancel Request' once already save record but before send for approval. Status will update to 'Cancelled' after user cancel request. All fields will display as read-only.
6.	Schedule Appointment	<ul style="list-style-type: none"> - Check box provided to select the time slot. - The time slot will be the 30 minutes time frame starting from 8.30 am to 11.30 pm
7.	Reschedule Appointment	User able to 'reschedule appointment' once already save record but before proceed with reporting. Status will update to '
8.	Status	<ul style="list-style-type: none"> • Ordered – this is for an order that has been submitted and no reporting has been done yet. User can change the status to 'cancelled'. On change of status from 'ordered' to 'cancelled', cancel reason field will be displayed which is mandatory to be filled before saving the record below the status combo box. • Cancelled – this is for a cancelled order. No further changes are allowed for cancelled order. • In progress – this is for an order that has saved report. No further changes are allowed for in progress order. • Confirmed – this is for an order that has confirmed report. No further changes are allowed for confirmed order.

3.3.1.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
Individual Medication Counselling order Screen				
1.	Counselling Order No	Unique number value populated after record been saved [MC][YY][00000000] <ul style="list-style-type: none"> • MC = Transaction Code • YY = Current year • 00000000 = 8 integer running number will reset yearly E.g.:MC1700015170	Yes	Auto
2.	Priority	This field shows the types of priority in a drop down combo box: <ul style="list-style-type: none"> • Routine • Urgent 	Yes	Drop down list
3.	Counselling Category	- Counselling Category to be selected from the drop down. The list to be populated from System parameter, category- Counselling category. Expected values	Yes	Auto



No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none"> Individual Counselling Group Counselling <p>- Counselling Category field shall be default to 'Individual'</p>		
4.	Counselling Location	<p>- Field is default to 'All' and value to be selected from the dropdown. The value to be populated from System parameter, category- Counselling location. Expected values:</p> <ul style="list-style-type: none"> Bedside CRP (Cardiac Rehabilitation Program) Chronic Pain Discharge Home Medication Review Methadone Pharmacy Others Outpatient Quit Smoking Clinic Radiopharmaceutical <p>- If select "Home Medication Review", another field will appear as – HMR Type</p>	Yes	Drop down list
5.	HMR Type	<p>If user select 'Home Medication Review' at the Counselling Location drop down menu then a mandatory drop down field shall appear with expected value as below:</p> <ul style="list-style-type: none"> Geriatric Home Parenteral Nutrition Others Psychiatric Strok 	Yes	Drop down list
6.	HMR Team	<p>If user select 'Home Medication Review' at the Counselling Location drop down menu then a mandatory drop down field shall appear with expected value as below:</p> <ul style="list-style-type: none"> Pharmacy Multidiscipline 	Yes	Radio button
7.	Discipline	<p>Discipline has to be selected from the drop down. The data is populated from the discipline Master.</p>	No	Drop down list
8.	Appointment Date	<p>Calendar option with condition to allow user to set appointment backdated for 5 days</p>	Yes	Calendar

No.	Name	Description	Mandatory	Format
		<p>For example; Today's date is 31/5/2016 Appointment date should allow to select date from 26, 27, 28, 29 & 30/5/2016</p> <p>There is button  to slot the appointment time</p>		
9.	Appointment Type	<p>This field shows the types of appointment in a drop down combo box:</p> <ul style="list-style-type: none"> • New • Follow up 	No	Drop down list
Individual Counselling Schedule Time				
10.	Counselling Location	Defaulted to the Counselling Location selected during order.	Yes	Text field
11.	Appointment Date	Defaulted to the appointment date selected during order. User is allowed to edit the dates and it should be updated.	Yes	Calendar
12.	Time	The time slot will be the 30 minutes time frame starting from 8.30 am to 11.30 pm	Yes	Check box
13.	MRN	Defaulted to the MRN based on the patient MRN selected during order	Yes	Text field
14.	Patient Name	Patient name will be defaulted on selection of MRN	Yes	Text field
15.	Counselling Details	Counselling details shall capture information entered in Counselling topic and subtopic at counselling order main screen	Yes	Text field
Topic and Sub-topic				
16.	Counselling Topics	Counselling Topics is mandatory to be selected from the drop down. The list to be populated from master, ph_couns_topic	Yes	Drop Down list
17.	Counselling Sub-topic	Counselling sub-topic to be selected from the drop down. The list to be populated from master, ph_subtopic	Yes	Drop Down list
18.	Remarks	Free text field with maximum 100 characters	No	Text field

3.4 Group Medication Counselling Order

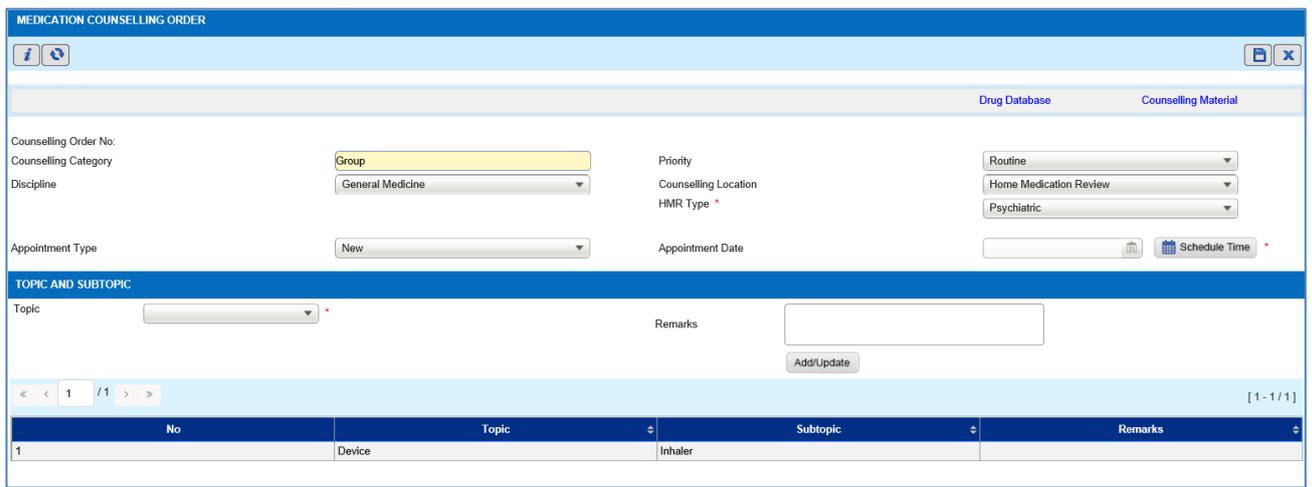
3.4.1 Detail Functionality and Screen

3.4.1.1 Screen Design

ID	MC.SD3
Description	This screen allows the user to create new group counselling order for the selected registered patient.

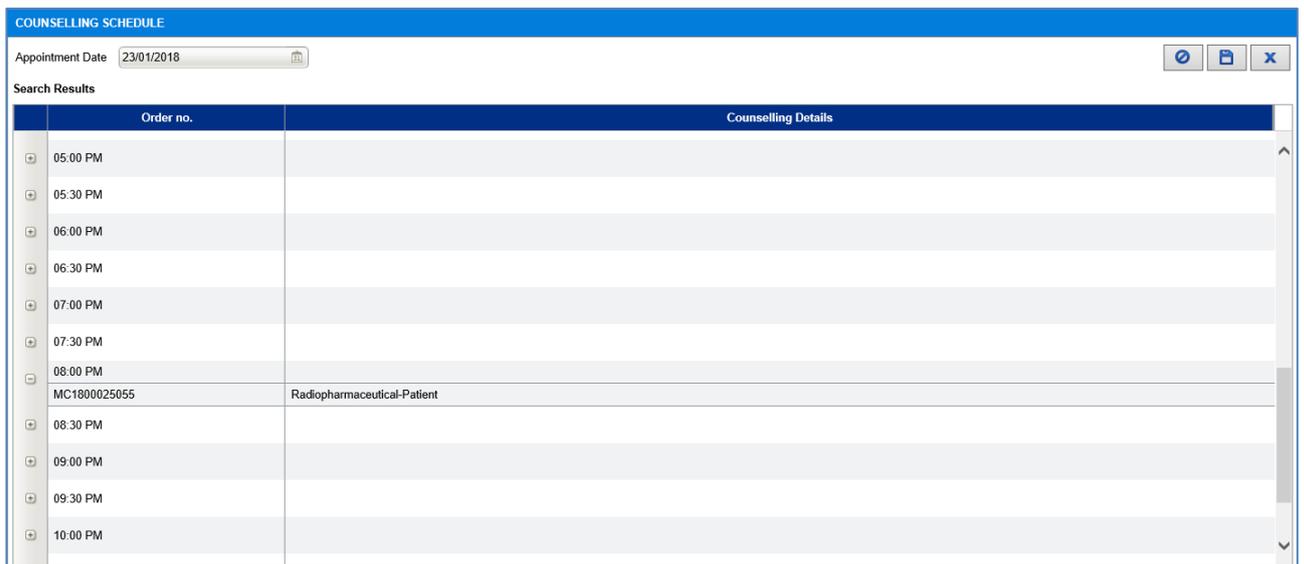
Diagram

1. Group Counselling Order screen



MC.SD3 – Group Medication Counselling Order Screen

2. Schedule Time



MC.SD3 – Group Medication Counselling Schedule Time

3. Patient List



PATIENT LIST						
Appointment Date : 23/01/2018		Counselling Details:			Delete X	
Time Slot From: 08:00 PM		Time Slot To: 08:30 PM			Select Registered Patient	
1 / 1						
No.	MRN No.	IC No.	Other Identification	Patient Name		
<input type="checkbox"/>	1 HPSF00000001	830912015620		KHOO ER HERN		
<input type="checkbox"/>	2 HPSF00000007	001125141013		MUHAMMAD FAIZUL BIN MOHD SAIFUL		
<input type="checkbox"/>	3 94217	571103055290	5515819	SAYENDALEY MARY AIP SELVAM		
Total Number of Patients: 3						

MC.SD3 – Group Medication Counselling Patient List

TOPIC AND SUBTOPIC			
Topic	Device	Remarks	
Subtopic			
Add/Update			
1 / 1			
No	Topic	Subtopic	Remarks
1	Device	Insulin pen	Testing

MC.SD3 – Topic and Subtopic

Notes	<ul style="list-style-type: none"> Click on Add New Group Counselling button to add new Group Counselling record and system will display Group Counselling Order Screen. Click on the plus button at the listing screen to expand / collapsed record to view patient list
Cross References	None

3.4.1.2 Application Business Rules

No.	Name	Description
1.	Hyperlink	To display hyperlink as below: <ul style="list-style-type: none"> Drug Database Counselling Material
2.	Topic and Subtopic	This section shall display topic and subtopic fields. Topic is mandatory to be select and some topic will have subtopic which has been set in mater setup.
3.	Save record	On click of Save button: <ul style="list-style-type: none"> Record status become 'Scheduled' Button 'Proceed to Reporting' will be active/ enable.
4.	Cancel record	User able to 'Cancel Request' once already save record but before send for approval. Status will update to 'Cancelled' after user cancel request. All fields will display as read-only.
5.	Schedule	- Double click at the time slot to and will display 'Patient list

No.	Name	Description
	Appointment	screen'. Refer to diagram - MC.SD3 – Group Medication Counselling Patient List - The time slot will be the 30 minutes time frame starting from 8.30 am to 11.30 pm. Refer to diagram - MC.SD3 – Group Medication Counselling Schedule Time
6.	Reschedule Appointment	User able to 'reschedule appointment' once already save record but before proceed with reporting. Status will update to '
7.	Status	<ul style="list-style-type: none"> - Ordered – this is for an order that has been submitted and no reporting has been done yet. User can change the status to 'cancelled'. On change of status from 'ordered' to 'cancelled', cancel reason field will be displayed which is mandatory to be filled before saving the record below the status combo box. - Cancelled – this is for a cancelled order. No further changes are allowed for cancelled order. - In progress – this is for an order that has saved report. No further changes are allowed for in progress order. - Confirmed – this is for an order that has confirmed report. No further changes are allowed for confirmed order.

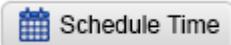
3.4.1.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
Group Medication Counselling order Screen				
1.	Counselling Order No	Unique number value populated after record been saved [MC][YY][00000000] <ul style="list-style-type: none"> • MC = Transaction Code • YY = Current year • 00000000 = 8 integer running number will reset yearly E.g.:MC1700015170	Yes	Auto
2.	Counselling Category	<ul style="list-style-type: none"> - Counselling Category to be selected from the drop down. The list to be populated from System parameter, category- Counselling category. Expected values <ul style="list-style-type: none"> • Individual Counselling • Group Counselling - Counselling Category field shall be default to 'Individual' 	Yes	Auto
3.	Priority	This field shows the types of priority in a drop down combo box:	Yes	Drop down list



No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none"> • Routine • Urgent 		
4.	Discipline	Discipline has to be selected from the drop down. The data is populated from the discipline Master.	No	Drop down list
5.	Counselling Location	Field is default to 'All' and value to be selected from the dropdown. The value to be populated from System parameter, category- Counselling location. Expected values: <ul style="list-style-type: none"> • Bedside • CRP (Cardiac Rehabilitation Program) • Chronic Pain • Discharge • Home Medication Review • Methadone Pharmacy • Others • Outpatient • Quit Smoking Clinic • Radiopharmaceutical • If select "Home Medication Review", another field will appear as – HMR Type 	Yes	Drop down list
6.	HMR Type	If user select 'Home Medication Review' at the Counselling Location drop down menu then a mandatory drop down field shall appear with expected value as below: <ul style="list-style-type: none"> • Geriatric • Home Parenteral Nutrition • Others • Psychiatric • Strok 	Yes	Drop down list
7.	Appointment Type	This field shows the types of appointment in a drop down combo box: <ul style="list-style-type: none"> • New • Follow up 	No	Drop down list
8.	Appointment Date	Calendar option with condition to allow user to set appointment backdated for 5 days For example; Todays date is 31/5/2016 Appointment date should allow to select date from 26, 27, 28, 29 & 30/5/2016	Yes	Calendar



No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none"> There is button  Schedule Time * to slot the appointment time 		
Group Counselling Schedule Time				
9.	Appointment Date	Defaulted to the appointment date selected during order. User is allowed to edit the dates and it should be updated.	Yes	Calendar
10.	Time / Order No	<ul style="list-style-type: none"> The time slot will be the 30 minutes time frame starting from 8.30 am to 11.30 pm Order No will be display after save the patient list record 	Yes	Text field
11.	Counselling Details	Counselling details shall captured information entered in Counselling topic and subtopic at counselling order main screen	Yes	Text field
Patient list				
12.	MRN	Defaulted to the MRN based on the patient MRN selected during order	Yes	Text field
13.	IC No	Ic No will be defaulted based selection of MRN	Yes	Text field
14.	Other identification	Other Identification will be defaulted based selection of MRN	No	Text field
15.	Patient Name	Patient name will be defaulted based on selection of MRN	Yes	Text field
16.	Counselling Details	Counselling details shall captured information entered in Counselling topic and subtopic at counselling order main screen	Yes	Text field
Topic and Sub-topic				
17.	Counselling Topics	Counselling Topics is mandatory to be selected from the drop down. The list to be populated from master, ph_couns_topic	Yes	Drop Down list
18.	Counselling Sub-topic	Counselling sub-topic to be selected from the drop down. The list to be populated from master, ph_subtopic	Yes	Drop Down list
19.	Remarks	Free text field with maximum 100 characters	No	Text field



3.5 Individual Medication Counselling Reporting

3.5.2 Detail Functionality and Screen

3.5.2.1 Screen Design

ID	MC.SD4
Description	This screen allow user to record New individual medication counselling reporting or edit in progress individual medication counselling reporting.

Diagram

MC Reporting

i. MC Reporting – Assessment

MEDICATION COUNSELLING REPORTING (INDIVIDUAL)

CHEOK KIM SWEE | Mykad 491112015741 | Age 68 Years 02 Months 13 Days | Gender Male | MRN HPSF0003806

Address | Phone And Email | Diagnosis | No known Allergies

Height 175 cm | Weight 50 kg | BMI/BSA 16.3 / 1.56 m² | Update (Last Updated : 24/08/2017) | Nationality : Warganegara

Counselling Material | Lab Parameter | Counselling History | Demographic | Pharmacist Notes | Medication Profile | Other Appointment

Counselling No MC140000053 | Counselling Location | Counselling Topics: Device-Inhaler

ASSESSMENT

Body Weight: 50

Social History

Smoking: Yes Slicks/Day For [] Alcohol Drinking: Yes Amount [] No Ex-Alcoholic

Pregnancy: Yes No Planning To Get Pregnant

Drug Abuse: Yes [] No

Diet & Lifestyle: normal

Education Level: []

Family History

Marital Status: Married | Family History Of Illness: asthma

No. Of Children: 3

Lives With: Family Members

Medical History

+ Add

Comorbidity	History
Asthma	

Surgical History: Yes No

Diagnostic Test: normal

Past Medication History

Drug Name	Original Rx No	Order Details	Balance From Previous Supply	Medication Status	Source of Medication	Comments
No Records Found!						

Non-Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Reason For Taking	Source of Medication	Balance/Comments
No Records Found!			

Save & Continue

MC.SD4 – Individual Medication Counselling Assessment

ii. MC Reporting



REPORTING	
Caregivers	<input type="text"/>
Understanding	<input type="text"/> % <input type="button" value="Calculate Score"/>
	<input checked="" type="checkbox"/> Follow Up Required
Date of Follow Up	<input type="text"/> <input type="button" value="Schedule"/>
Counselling Duration (in Minutes)	<input type="text"/>
Adherence Score	8.36 Adherence
Follow Up Reason	<input type="text"/>
Counselled By	<input type="text"/>
Pharmacist Notes	<input type="text"/>
	1987 characters allowed
	<input type="button" value="Save"/> <input type="button" value="Confirm"/>

MC.SD4 – Individual Medication Counselling Reporting

Notes	<ol style="list-style-type: none"> The reporting screen will include the patient banner and various hyperlinks below the patient banner. The list of hyperlinks are: <ul style="list-style-type: none"> Counselling Material ADR Lab Parameter Counselling History MTAC History Demographic Pharmacist Notes Medication Profile Other Appointment This reporting screen shall divided into three sections as below: <ul style="list-style-type: none"> Assessment Reporting
Cross References	PhIS_CPS_SDD_MC v1.2

3.5.2.2 Application Business Rules

No.	Name	Description
1.	Save record	<p>On click of Save button:</p> <ol style="list-style-type: none"> Record status will be 'In progress' and user can edit the record Only 'Remark' is allowed to be edited, other fields display as read-only Button 'Send for Approval' will display Button 'Cancel Request' will display Button 'Print' will display
2.	Confirm record	<p>On click of Confirm button:</p> <ol style="list-style-type: none"> Record status updated to 'Completed' All fields will be read-only Button 'Print' will display



No.	Name	Description
3.	No of MTAC visit	<p>i. First MTAC reporting created will default to no 1. Completed this reporting with MTAC consultation status: Need follow up, Next MTAC reporting with same MTAC type will increase MTAC visit no to 2.</p> <p>ii. If completed previous reporting with MTAC consultation status: Discharged , Next MTAC reporting with same MTAC type will default again to MTAC visit no to 1.</p>
4.	Order Details	<p>i. To call MTAC Order screen</p> <p>ii. If the record status scheduled, user still can edit/ cancel the order.</p> <p>iii. If the record status in progress/ completed this screen will be read only</p>

3.5.2.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
Social History				
1.	Body Weight	A free numbering field with allow 1 decimal point	No	Text field
2.	Smoking	<p>A value has to be selected from 4 available values:</p> <ul style="list-style-type: none"> • Yes (If selected, shall allow to enter the Sticks/Day and Smoking For • No • Ex-Smoker <p>Secondary smoker</p>	No	Text field
3.	Smoking - Sticks/Day	<p>Smoking -Sticks/Day only enable when smoking = 'Yes'</p> <p>This field is free text with a capacity of 2 integer</p>	No	Text field
4.	Smoking -For	<p>Smoking -Sticks/Day only enable when smoking = 'Yes'</p> <p>This field is free text with a capacity of 100 characters.</p>	No	Text field
5.	Pregnancy	A value has to be selected from 2 available values, Yes /No	No	Text field
6.	Pregnancy- Trimester	<p>Pregnancy-Trimester is to be selected from the drop down list. Dropdown will be populated from lookup table where domain = "TRIMSTER"</p> <p>i. Trimester - Value setup as 1,2 and 3</p>	No	Text field
7.	Diet & Lifestyle	Diet & Lifestyle is free text with a capacity of 100 characters.	No	Text field



No.	Name	Description	Mandatory	Format
8.	Alcohol Drinking	A value has to be selected from 2 available values, Yes /No	No	Text field
9.	Alcohol Drinking - Amount	Alcohol Drinking - Amount only enable when smoking = 'Yes' This field is free text with a capacity of 100 characters.	No	Text field
10.	Drug Abuse	A value has to be selected from 2 available values, Yes /No	No	Text field
11.	Drug Abuse - Remarks	Drug Abuse - Remarks only enable when smoking = 'Yes' This field is free text with a capacity of 100 characters.	No	Text field
12.	Education Level	Education Level auto displayed based on patient registration data. Field value cannot be edited.	No	Read-only
Family History				
13.	Marital Status	Marital Status Level auto displayed based on patient registration data. Field value cannot be edited.	No	Read-only
14.	No.of Children	No.of Children is to be entered in the text box. Maximum of 2 integer number.	No	Text field
15.	Lives With	Drop-down combo box with the following values: <ul style="list-style-type: none"> • Alone • Family members • Nursing home 	No	Drop down list
16.	Family History of Illness	Family History of Illness is to be entered in the text box. Maximum of 100 characters capacity	No	Text field
Medical History				
17.	Co-morbidity	<ul style="list-style-type: none"> i. Drop down menu with History field (free text 500 characters) ii. The drop down value as below: <ul style="list-style-type: none"> • Hypertension • Diabetes Mellitus • Tuberculosis • AF • Asthma • Hepatitis B • Hepatitis C • Heart Failure • ESRD 	No	Drop down list



No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none"> • COPD • RVD • Others iii. Shall allow to add multiple records		
18.	Surgical History	Surgical history – radio-button selection is provided. One of the following values has to be selected: <ul style="list-style-type: none"> • Yes – a free-text field of 100 characters capacity will be provided for the user to input more information • No 	No	Text field
19.	Diagnostic Test	User can field patient diagnostic test in free text field (free text 2000 characters)	No	Text field
Past Medication History				
20.	Medication (Specify Strength)	This field shall capture from CP1 record	No	Text field
21.	Original RX No	This field shall capture from CP1 record	No	Text field
22.	Order Details	This field shall capture from CP1 record	No	Text field
23.	Comments	This field shall capture from CP1 record	No	Text field
24.	Balance From Previous Supply	This field shall capture from CP1 record	No	Text field
25.	Medication Status	This field shall capture from CP1 record	No	Text field
26.	Source of Medication	This field shall capture from CP1 record	No	Text field
Reporting				
27.	Caregivers	This is a numerical free text box field with maximum of 5 characters capacity.	No	Text field
28.	Adherence Score	Free numbering column with allow two decimal and allow user to select the value from the drop down with value: <ul style="list-style-type: none"> • Adherence • No Adherence 	No	Text field
29.	Follow up required	Check Box is provided.	No	Check box
30.	Date of follow up	Calendar and schedule option to select date and time. Must be future time.	No	Calendar



No.	Name	Description	Mandatory	Format
31.	Follow up reason	Free text field with maximum of 500 characters capacity.	No	Text field
32.	Counselled By	Auto capture from user id name	No	Text field
33.	Counselling Duration (in Minutes)	Drop down menu with value as below: <ul style="list-style-type: none"> • 15 • 30 • 45 • 60 	No	Drop down list
34.	Pharmacist Note	Free text field with maximum of 500 characters capacity.	No	Text field
35.	Understanding	The result based on the patient understanding score. Score(%) = (No. of 'Yes'/No. of Questions) X 100%	No	Others
Understanding				
1.	Drug	<ul style="list-style-type: none"> • User can search and add drug • Current medication drug only will be display 	No	Searchin g field
2.	Dose	Radio button provided. User has to select Yes :1 mark, No : 0 mark	No	Radio Button
3.	Frequency	Radio button provided. User has to select Yes :1 mark, No : 0 mark	No	Radio Button
4.	Indication	Radio button provided. User has to select Yes :1 mark, No : 0 mark	No	Radio Button
5.	Time administration	Radio button provided. User has to select Yes :1 mark, No : 0 mark	No	Radio Button

3.6 Group Medication Counselling Reporting – Reporting

3.6.1 Detail Functionality and Screen

3.6.1.1 Screen Design

ID	MC.SD5
Description	This screen allow user to record New individual medication counselling reporting or edit in progress individual medication counselling reporting.
Diagram	i. Reporting – Main



MEDICATION COUNSELLING REPORTING (GROUP)

Drug Database Counselling Material

Date Of Counselling: Discipline:

Counselling Topics:

Patient Registration List

MRN	Patient Name	Attend	Caregivers
HPSF00192620	TF [REDACTED]	<input checked="" type="checkbox"/> Yes	<input type="text" value="6"/>
HPSF00192615	PI [REDACTED]	<input type="checkbox"/> No	
HPSF00192613	M [REDACTED]	<input checked="" type="checkbox"/> Yes	<input type="text" value="3"/>
HPSF00192623	HA [REDACTED]	<input type="checkbox"/> No	
TPC100022	SI [REDACTED] TPC OHGIS INTEGRATION	<input type="checkbox"/> No	

Total numbers of patients:
 Total patient attended:
 Total attendance:

Pharmacist Notes: Material and Technique Used:

Counselled By:

Notes	<ul style="list-style-type: none"> • Click on save button to save the record • Click on confirm button to complete the record
Cross References	None

3.6.1.2 Application Business Rules

No.	Name	Description
1.	Attend	Selection of Yes or No, If Yes should mention how many caregivers attended

3.6.1.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
1.	Date of Counselling	To display counselling appointment date from order screen	Yes	Auto capture
2.	Discipline	To display discipline as selected from order screen	Yes	Auto capture
3.	Counselling	To display Counselling Topic as selected from order	Yes	Auto



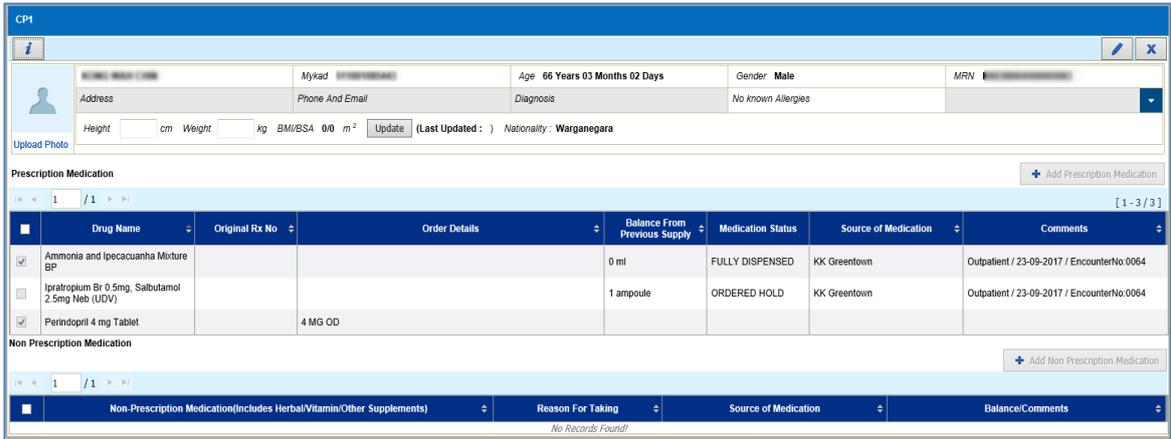
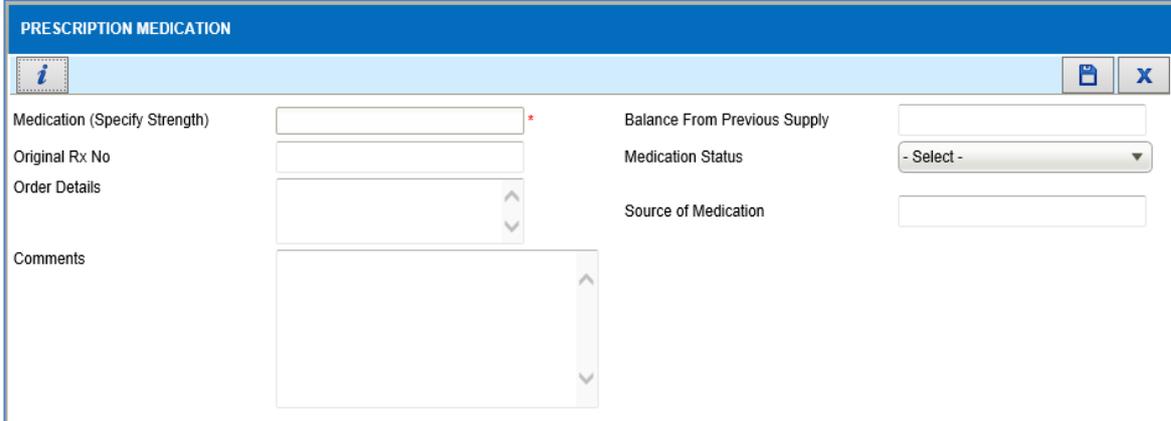
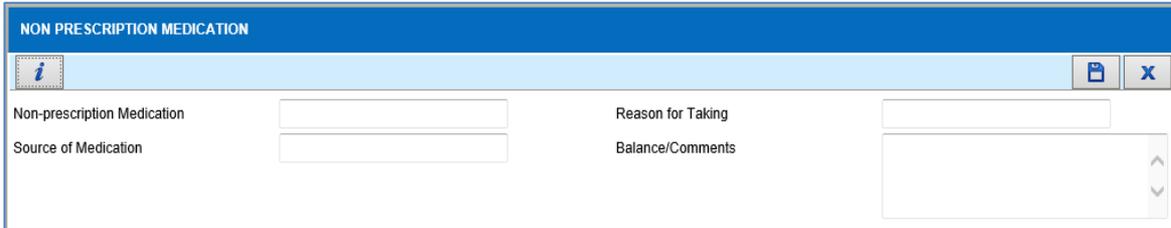
No.	Name	Description	Mandatory	Format
	Topics	screen		capture
4.	MRN	Defaulted to the MRN based on the patient MRN selected during order	Yes	Text field
5.	Patient Name	Patient name will be defaulted based on selection of MRN	Yes	Text field
6.	Attend	Option to select Yes or No	Yes	Radio button
7.	Caregivers	This is a numerical free text box field with maximum of 5 characters capacity.	Yes	Number
8.	Total numbers of patients	Auto calculates based on the total of patient added in the group.	Yes	Auto capture
9.	Total patient attended	Auto calculates based on the total of patient marked 'Attend = Yes'	Yes	Auto capture
10.	Total attendance	Auto calculates field based on total of patient marked 'Attend = Yes' + total number of 'Caregivers'	Yes	Auto capture
11.	Pharmacist Note	Free text field with maximum 2000characters	No	Text Field
12.	Material and Technique Used	Free text field with maximum 500characters	No	Text Field
13.	Adherence Score	Free numbering column with allow two decimal and allow user to select the value from the drop down with value: <ul style="list-style-type: none">• Adherence• No Adherence	No	Text Field



3.7 MC Reporting – CP1

3.7.1 Detail Functionality and Screen

3.7.1.1 Screen Design

ID	MC.SD6
Description	MC Reporting – CP1
Diagram	<p>i. CP1</p>  <p>ii. Prescription medication – On click of add prescription medication button</p>  <p>iii. Non prescription medication – on click of add non prescription medication</p> 
Notes	<ul style="list-style-type: none"> • Click on save button to save the record. • Click on delete button to delete the record.
Cross References	None

3.7.1.2 Application Business Rules

No.	Name	Description
1.	Prescription Medication	<ul style="list-style-type: none"> • To display past medical drug history last visit from current hospital <ul style="list-style-type: none"> ○ Inpatient - display discharge medication, if no discharge medication, display medication ○ Outpatient - display medication ○ To exclude if the drug status = Cancelled / Stop • Only checked Prescription medication will be listed in the MC reporting main screen and MC printed form
2.	Non Prescription medication	<ul style="list-style-type: none"> • Non Prescription medication record will be display on MC reporting –Assessment • Only checked non Prescription medication will be listed in the MC reporting main screen and MC printed form

3.7.1.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
Prescription Medication				
1.	Medication (Specify Strength)	Medication (Specify Strength) is to be search in the text box. Data is pull from drug master.	Yes	Searching Field
2.	Original RX No	Original Rx No to be entered in the text box. Maximum of 20 characters capacity	No	Text Field
3.	Order Details	An order detail is to be entered in the text box. Maximum of 100 characters capacity	No	Text Field
4.	Comments	Comments are to be entered in the text box. Maximum of 500 characters capacity	No	Text Field
5.	Balance From Previous Supply	Balance From Previous Supply is to be entered in the text box. Maximum of 100 characters capacity	No	Text Field
6.	Medication Status	Medication Status is to be selected from the drop down list. Dropdown will be populated from lookup table where domain = "MEDICATION_STATUS" i. Medication Status - This field will show all data in a combo box based on the "MEDICATION_STATUS" values configured in the lookup table.	No	Drop Down List
7.	Source of Medication	Source of Medication is to be entered in the text box. Maximum of 100 characters capacity	No	Text Field

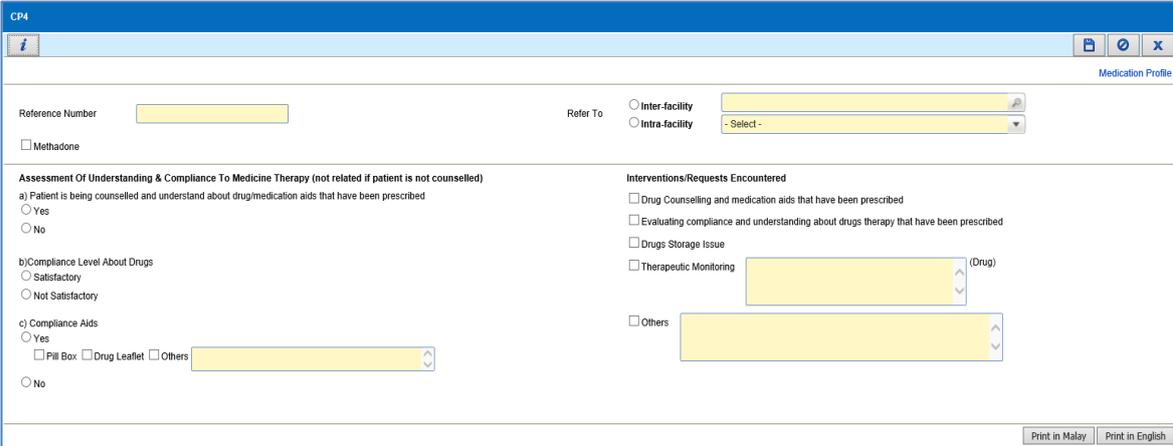
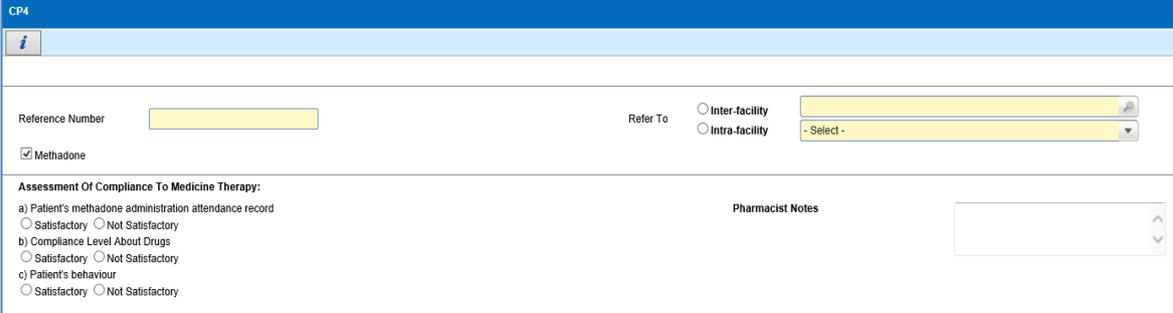


No.	Name	Description	Mandatory	Format
Non- Prescription Medication				
1.	Non-prescription Medication	Non-prescription Medication is to be entered in the text box. Maximum of 100 characters capacity.	No	Text Field
2.	Source of Medication	Source of Medication is to be entered in the text box. Maximum of 100 characters capacity.	No	Text Field
3.	Reason for Taking	Reason for Taking is to be entered in the text box. Maximum of 100 characters capacity.	No	Text Field
4.	Balance/Comments	Balance/Comments is to be entered in the text box. Maximum of 100 characters capacity.	No	Text Field

3.8 MC Reporting – CP4

3.8.1 Detail Functionality and Screen

3.8.1.1 Screen Design

ID	MC.SD7
Description	MC Reporting – CP4
<p>Diagram</p> <p>i. CP4</p>  <p>ii. CP4 Methadone</p> 	
Notes	<ul style="list-style-type: none"> • Click on save button to save the record. • Click on delete button to delete the record.
Cross References	None

3.8.1.2 Application Business Rules

None



3.8.1.3 Input Validation Rules

No.	Name	Description	Mandatory	Format
CP4				
1.	Reference Number	Reference Number is auto generated. This field is not editable. Format – CP4/running number (based on facility)	No	Searching Field
2.	Refer To	Radio button option of : <ul style="list-style-type: none"> • Inter-facility - Data is pull from external facility master. • Intra-facility – Data is pull from department master 	No	Radio button
3.	Methadone	Methadone is to be selected or deselected.	No	Check box
4.	Question a	A value has to be selected from 2 available values, Yes /No	No	Radio button
5.	Question b	A value has to be selected from 2 available values, Satisfied /Non Satisfied	No	Radio button
6.	Question c	A value has to be selected from 4 available values, Pill box /Drug Leaflet/Others No. If select NO, all other selection will be deselected. If select value other than NO, NO value will be auto deselected	No	Radio button
7.	Interventions /Requests Encountered	Check box available for below value: <ul style="list-style-type: none"> • Drug Counselling and medication aids that have been prescribed • Evaluating compliance and understanding about drugs therapy that have been prescribed • Drugs Storage Issue • Therapeutic Drug Monitoring (if checked, free text field available with 100 maximum characters) • Others (if checked, free text field available with 200 maximum characters) 	No	Check Box
CP4 Methadone				
1.	Patient's methadone administration attendance record	This question is associated with radio-button option of the following: <ul style="list-style-type: none"> • Satisfactory • Non Satisfactory 	No	Radio button
2.	Compliance Level About Drugs	This question is associated with radio-button option of the following:	No	Radio button



No.	Name	Description	Mandatory	Format
		<ul style="list-style-type: none">SatisfactoryNon Satisfactory		
3.	Patient's behaviour	This question is associated with radio-button option of the following: <ul style="list-style-type: none">SatisfactoryNon Satisfactory	No	Radio button
4.	Pharmacist Note	Pharmacist Note is to be entered in the text box. Maximum of 100 characters capacity.	No	Text Field



3.9 Integration

None



4. References

List out the documents in which the stated procedures in this document refer to.

Document	Description/ Expansion
PHIS_CPS_URS_MC_v1.3	User Requirement Specification document for MC module

5. Acronyms

Item	Description
UOM	Unit of Measurement
MC	Medication Counselling

6. Appendix