



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

User Manual Ward Pharmacy

Version	: 12th Edition
Document ID	: U. MANUAL_WARD PHARMACY



PhIS & CPS Project
User Manual – Ward Pharmacy



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1.0 Introduction

1.1 Overview of PhIS

Pharmacy Information System or better known as PhIS, is a complete and comprehensive system that integrates pharmacy related services geared towards pharmacy excellence. PhIS implementation would transform most of current manual process to electronic system would benefit facility end user in the health care sector.

There are 12 modules to assist services delivery by the health care sector which comprises of:

1. Order Management
2. Inpatient Pharmacy
3. Outpatient Pharmacy
4. Medication Counselling
5. Ward Pharmacy
6. Pharmacy Inventory
7. Manufacturing of Cytotoxic Drug Reconstitution, Parenteral Nutrition, IV Admixture & Eye Drop, Radiopharmaceuticals and Extemporaneous
8. Adverse Drug Reaction & Drug Allergic (ADR & DAC)
9. Clinical Pharmacokinetics Services (TDM)
10. Drug Information & Consumer Education (DICE)
11. Medication Therapy Adherence Clinic (MTAC)
12. Data Mining (PhARM)

1.2 Purpose and Objectives

This user manual outlines the Ward Pharmacy sub-module and its key features and functionalities. The primary objective is to help guide user through the process of completing PhIS application process.

User will understand the following activities in details:

- Ward Pharmacy (CP2)

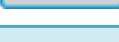
1.3 Organised Sections

These are the sections within this document:

- Section 1: Introduction
- Section 2: Application Standard Features
- Section 3: Ward Pharmacy
- Section 4: Acronyms
- Section 5: Links to Clinical Modules

2.0 Application Standard Features

2.1 PhIS Legend

Standard Legend			
	Login to PhIS		Logout from PhIS
	Close All Open Tabs		Refresh Screen
	Expand Menu		Collapse Menu
	Expand Module		Collapse Module
	Add/Create New Record		Save
	Close Window		Calendar Icon
	Save Transaction		Delete Record
	Export Report From PDF file to Excel file		OK Button
	Yes Button		No Button
	Radio Button	<input type="checkbox"/>	Checkbox
	System Automatic Generate Record No.		Automatically Display/Retrieve Box
	Reset Login Screen		Show Help
	Display Home Tab		Search Record
	Cancel		Dropdown Box
	Search Icon	*	Mandatory Field
	Edit Record		Empty Text Box
	Cancel Button		

Ward Pharmacy (CP2) Module Legend			
	To record daily review patient		Add/update Record

Note

To learn more about Login Information, kindly click [Login Information](#) module for descriptive steps.

3.0 Ward Pharmacy

Overview

The Ward Pharmacy module include Implementing safe and organized CP2 form, CP1 form, CP4 form, Pharmaceutical Care Issue (PCI) and lab result reporting

User Group

This module is intended for pharmacist

Functional Diagram

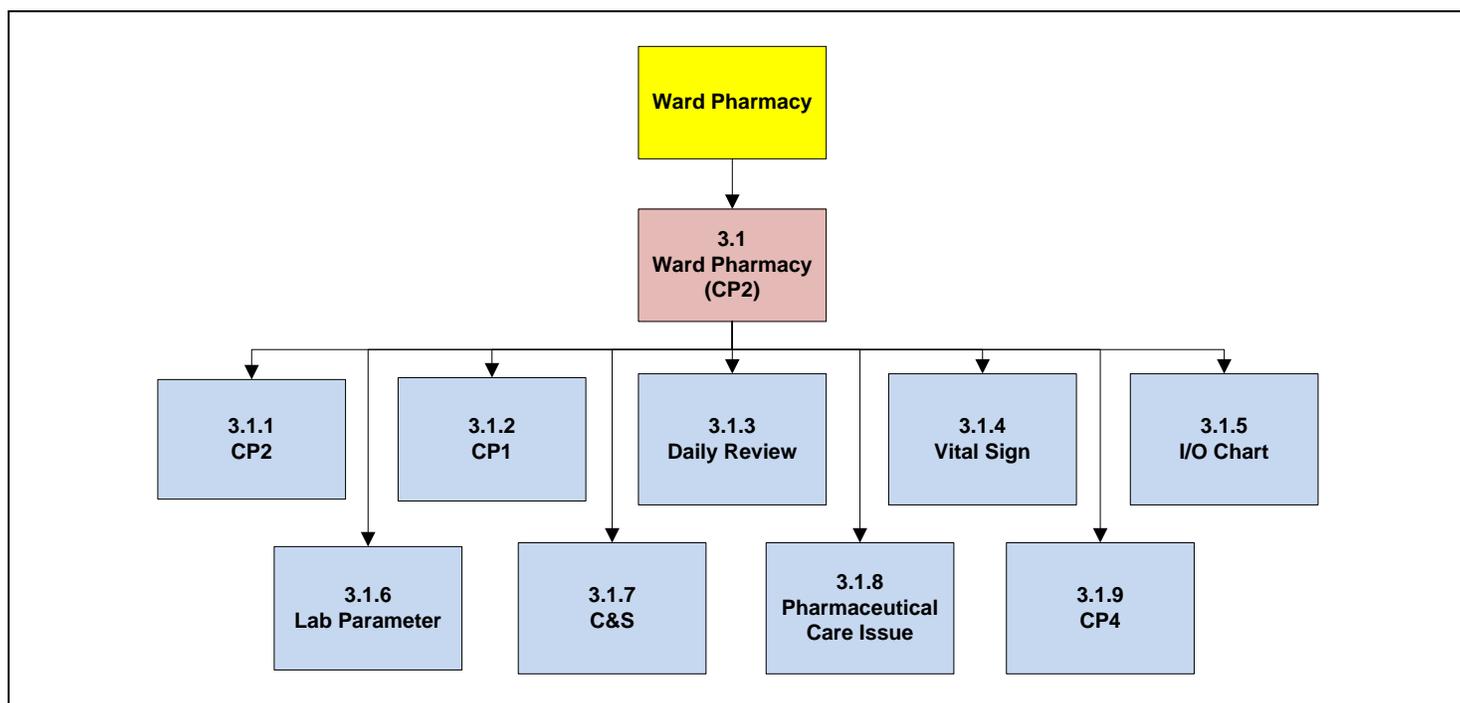


Figure 3.1

Functional Description

Ward Pharmacy comprises of nine (9) functions:

- CP1
- CP2
- Daily Review
- Vital Sign
- I/O Chart
- Monitoring Parameter
- C&S
- Pharmaceutical Care Issue
- CP4

3.1 Ward Pharmacy (CP2)

3.1.1 CP2

This function is used to transcribe CP2 form record in the system.

PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home **Ward Pharmacy (CP2)**

WARD PHARMACY (CP2)

Location: WAD 5 2 MRN:

Bed No: CP1 Recorded: All

IC No/Other Identification: CP2 Recorded: All

Admission Date: CP1 Created By:

Discharge Date: CP2 Created By:

3

[1 - 10 / 37]

Bed No	MRN	Patient Name	IC No/Other Identification	Location	Admission Date	Discharge Date	CP1 Recorde	CP1 Created By	CP2 Recorde	CP2 Created By	Home Leave
	HPSF00014833	XXXXXXXXXX	XXXXXXXXXX	WAD 5	11/11/2020		No		No		No
	HPSF00000001	XXXXXXXXXX	XXXXXXXXXX	WAD 5	03/11/2020		Yes	USER SUPPORT	Yes	Clinical1	No
	HPSF00278997	XXXXXXXXXX	XXXXXXXXXX	WAD 5	22/10/2020		Yes	Clinical1	Yes	Clinical1	No
	HPSF00066163	XXXXXXXXXX	XXXXXXXXXX	WAD 5	08/09/2020		No		No		No

Figure 3.1.1-1 Ward Pharmacy Listing Page

Note

Phis Screen menu/sub menu will be displayed according to user access right.

STEP 1

Click on Pharmacy Transaction menu then click on Clinical follow by click on Ward Pharmacy CP2

STEP 2

To search for patient Ward Pharmacy (CP2) records, user can search by criteria as follows:

Search			
No	Field	Description	Remark
a	Location	Location	Allow to search by assigned location: - Inpatient visit - Emergency visit - Daycare visit
b	MRN	Patient MRN	Allow to search by patient full or partial MRN No
c	Bed No	Bed No	Allow to search by patient bed no
d	IC No/Other Identification	IC No/Other Identification	Allow to search by patient full or partial IC No/Other Identification
e	CP1 Recorded?	- All - Yes - No	All-Allow to search by status 'Yes' and 'No' Yes-Allow to search by status 'Yes' No-Allow to search by status 'No'
f	CP2 Recorded?	- All	All-Allow to search by status 'Yes' and 'No'

		- Yes - No	Yes-Allow to search by status 'Yes' No-Allow to search by status 'No'
G	CP1 Created By	CP1 Created By	Allow to search CP1 created by
h	CP2 Created By	CP2 Created By	Allow to search CP2 created by
i	Admission Date	Date Enter Ward	Allow to search by date enter to ward
j	Discharged Date	Date Dismissed from Ward	Allow to search by date dismissed from ward

Table 3.1.1-1

STEP 3

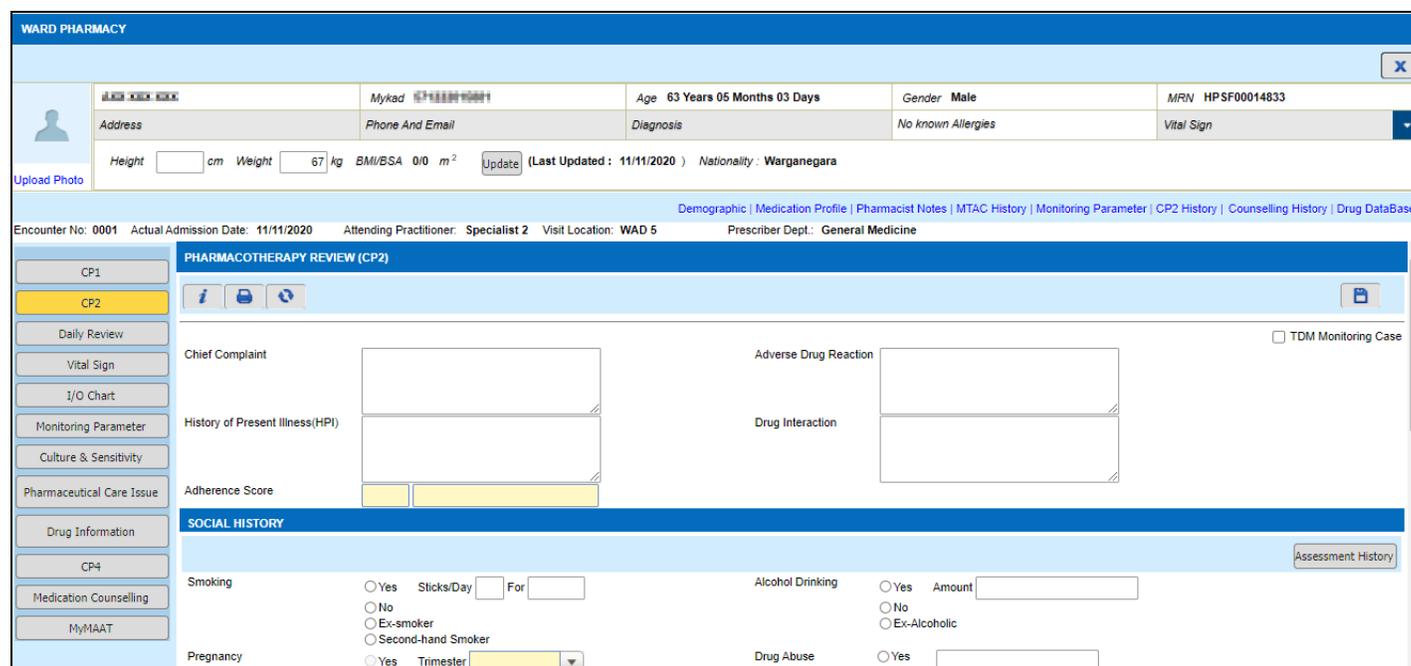
Click on the  button and result display will be based on the criteria

Note

If CP1 and CP2 already recorded for the particular patient, the listing will show Yes for both line.

STEP 4

Double click on patient name and user will enter the ward pharmacy CP2 function.



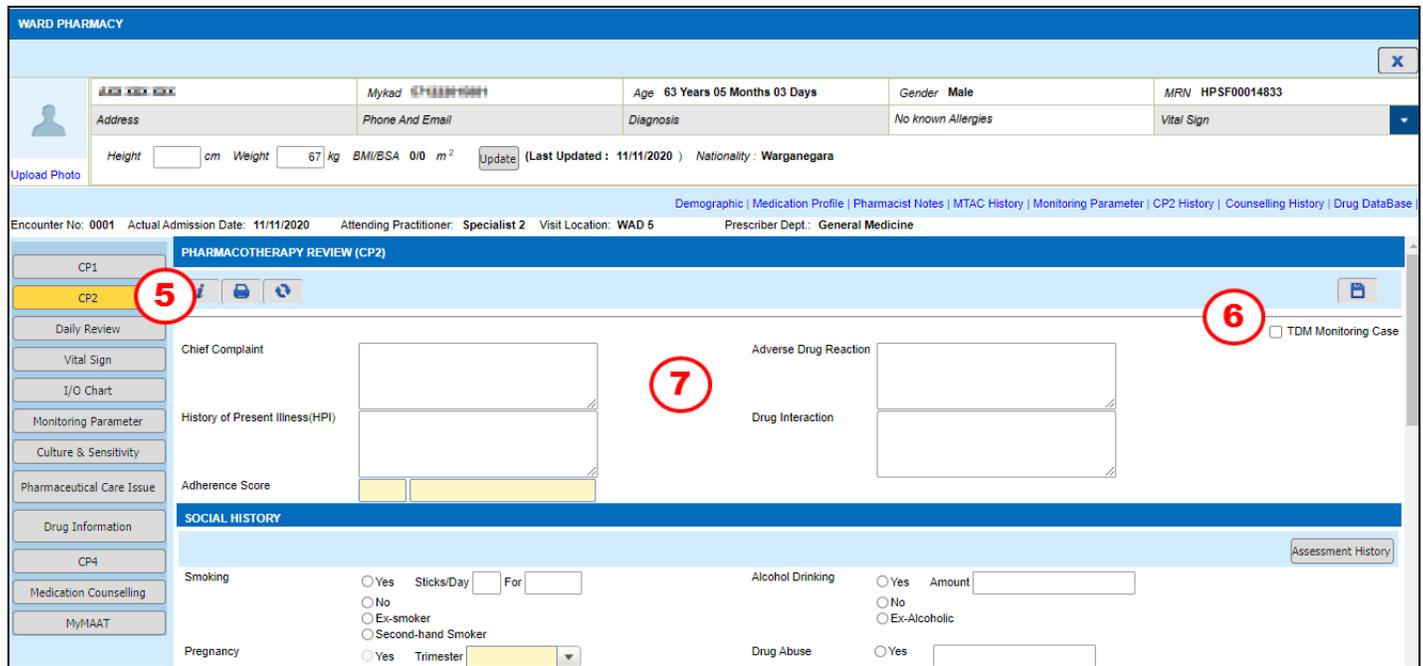
The screenshot displays the 'WARD PHARMACY' interface. At the top, there's a patient information summary including Mykad, Age (63 Years 05 Months 03 Days), Gender (Male), and MRN (HPSF00014833). Below this is a detailed form for 'PHARMACOTHERAPY REVIEW (CP2)'. The form includes sections for 'Chief Complaint', 'History of Present Illness (HPI)', 'Adverse Drug Reaction', 'Drug Interaction', and 'SOCIAL HISTORY'. The 'SOCIAL HISTORY' section contains checkboxes and input fields for Smoking (Yes/No/Ex-smoker/Second-hand Smoker), Alcohol Drinking (Yes/No/Ex-Alcoholic), and Drug Abuse (Yes). A left-hand navigation menu contains tabs for CP1, CP2, Daily Review, Vital Sign, I/O Chart, Monitoring Parameter, Culture & Sensitivity, Pharmaceutical Care Issue, Drug Information, CP4, Medication Counselling, and MyMAAT. The CP2 tab is currently selected.

Figure 3.1.1-2 Ward Pharmacy

Note

- By default, system will CP2 screen
- User can navigate to other screen using tab on the left side that consist of:
 - CP1
 - CP2
 - Daily Review
 - Vital Sign
 - I/O Chart
 - Monitoring Parameter
 - Culture & Sensitivity

- *Pharmaceutical Care Issue*
- *Drug Information*
- *CP4*
- *Medication Counseling*
- *MyMAAT*



WARD PHARMACY

Mykad: [REDACTED] Age: 63 Years 05 Months 03 Days Gender: Male MRN: HPSF00014833

Address: [REDACTED] Phone And Email: [REDACTED] Diagnosis: [REDACTED] No known Allergies Vital Sign: [REDACTED]

Height: [REDACTED] cm Weight: 67 kg BMI/BSA: 0/0 m² Update (Last Updated: 11/11/2020) Nationality: Warganegara

Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

PHARMACOTHERAPY REVIEW (CP2)

CP1 CP2 (5) Daily Review Vital Sign I/O Chart Monitoring Parameter Culture & Sensitivity Pharmaceutical Care Issue Drug Information CP4 Medication Counseling MyMAAT

Adverse Drug Reaction (6) TDM Monitoring Case

Chief Complaint (7) History of Present Illness(HPI) Adherence Score

SOCIAL HISTORY

Smoking: Yes Sticks/Day [REDACTED] For [REDACTED] No Ex-smoker Second-hand Smoker

Alcohol Drinking: Yes Amount [REDACTED] No Ex-Alcoholic

Pregnancy: Yes Trimester [REDACTED] Drug Abuse: Yes [REDACTED]

Assessment History

Figure 3.1.1-3 Ward Pharmacy

STEP 5

Click on the **CP2** tab on the left side.

Note

CP2 consist of:

- *Main*
- *Social History*
- *Family History*
- *Medical History*
- *Past Medication History*

STEP 6

Select on **TDM Monitoring Case** checkbox if applicable

STEP 7

Enter the necessary information

- a) **Chief Complaint**
- b) **HPI**
- c) **ADR**
- d) **Drug Information**
- e) **Adherence Score**

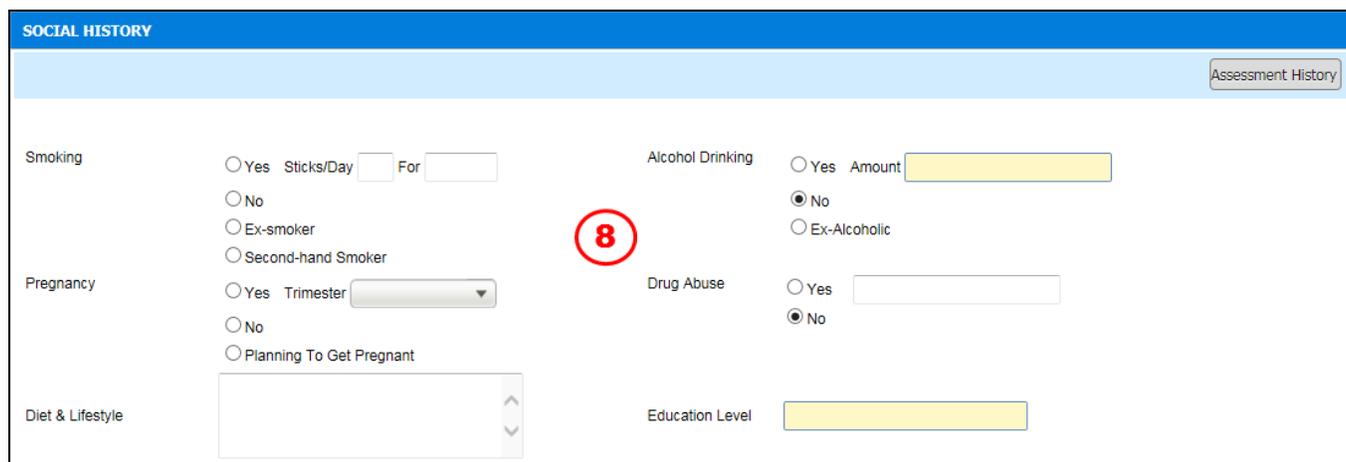


Figure 3.1.1-4 Social History

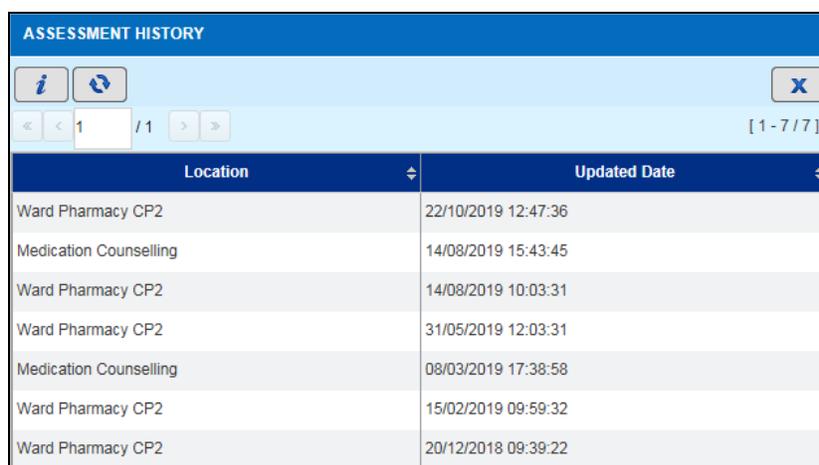
STEP 8

Enter the necessary information in Social History section. Social History section consist of:

- a) **Smoking**
- b) **Pregnancy**
- c) **Diet & Lifestyle**
- d) **Alcohol Drinking**
- e) **Drug Abuse**

Note

- **Pregnancy** field is disable if the patient gender is male
- **Education** is retrieved from **Patient Registration** function
- Click on the **Assessment History** button to view Assessment History as shown in Figure 3.1.1-5



Location	Updated Date
Ward Pharmacy CP2	22/10/2019 12:47:36
Medication Counselling	14/08/2019 15:43:45
Ward Pharmacy CP2	14/08/2019 10:03:31
Ward Pharmacy CP2	31/05/2019 12:03:31
Medication Counselling	08/03/2019 17:38:58
Ward Pharmacy CP2	15/02/2019 09:59:32
Ward Pharmacy CP2	20/12/2018 09:39:22

Figure 3.1.1-5 Assessment History

- User is allowed to copy information of Assessment History by double click on the selected record and the information will be updated into the Social History



FAMILY HISTORY

Marital Status

No. Of Children

Lives With

Family History Of Illness

9

Figure 3.1.1-6 Family History

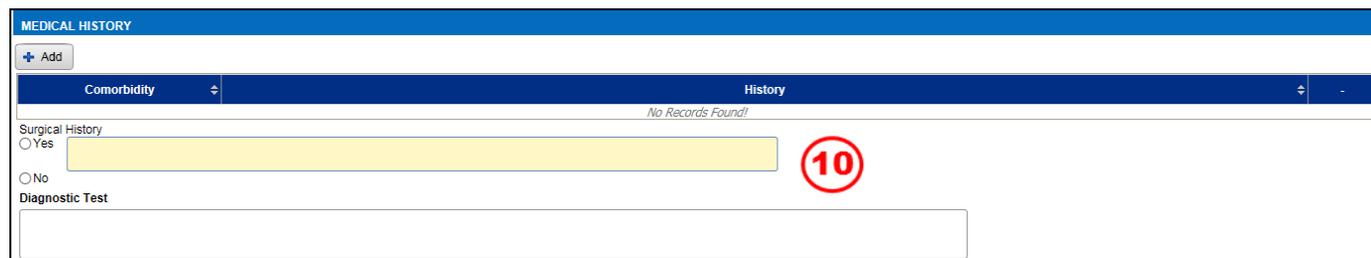
STEP 9

Fill in the necessary information in Family History section. Family History section consist of:

- a) **Marital Status**
- b) **No Of Children**
- c) **Lives With**
- d) **Family History Of Illness**

Note

Information in Marital Status is available if information is filled during patient registration function.



MEDICAL HISTORY

Comorbidity History

No Records Found!

Surgical History

Yes

No

Diagnostic Test

10

Figure 3.1.1-7 Medical History

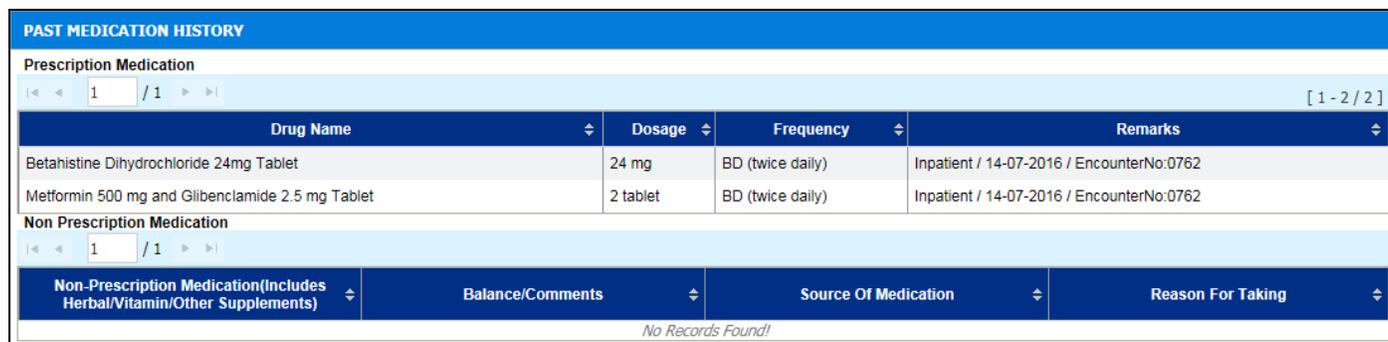
STEP 10

Fill in the necessary information in Family History section. Family History section consist of:

- a) **Comorbidity**
- b) **Surgical History**
- c) **Diagnostic Test**

Note

User can add patient comorbidity by click on the button



PAST MEDICATION HISTORY

Prescription Medication

1 / 1 [1 - 2 / 2]

Drug Name	Dosage	Frequency	Remarks
Betahistine Dihydrochloride 24mg Tablet	24 mg	BD (twice daily)	Inpatient / 14-07-2016 / EncounterNo:0762
Metformin 500 mg and Glibenclamide 2.5 mg Tablet	2 tablet	BD (twice daily)	Inpatient / 14-07-2016 / EncounterNo:0762

Non Prescription Medication

1 / 1

Non_Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Balance/Comments	Source Of Medication	Reason For Taking
<i>No Records Found!</i>			

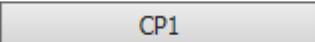
Figure 3.1.1-8 Past Medication History

Note

Past Medication History consist of:

- Prescription Medication

- Non Prescription Medication

- However, this field cannot be filling and need to be filled in  screen.

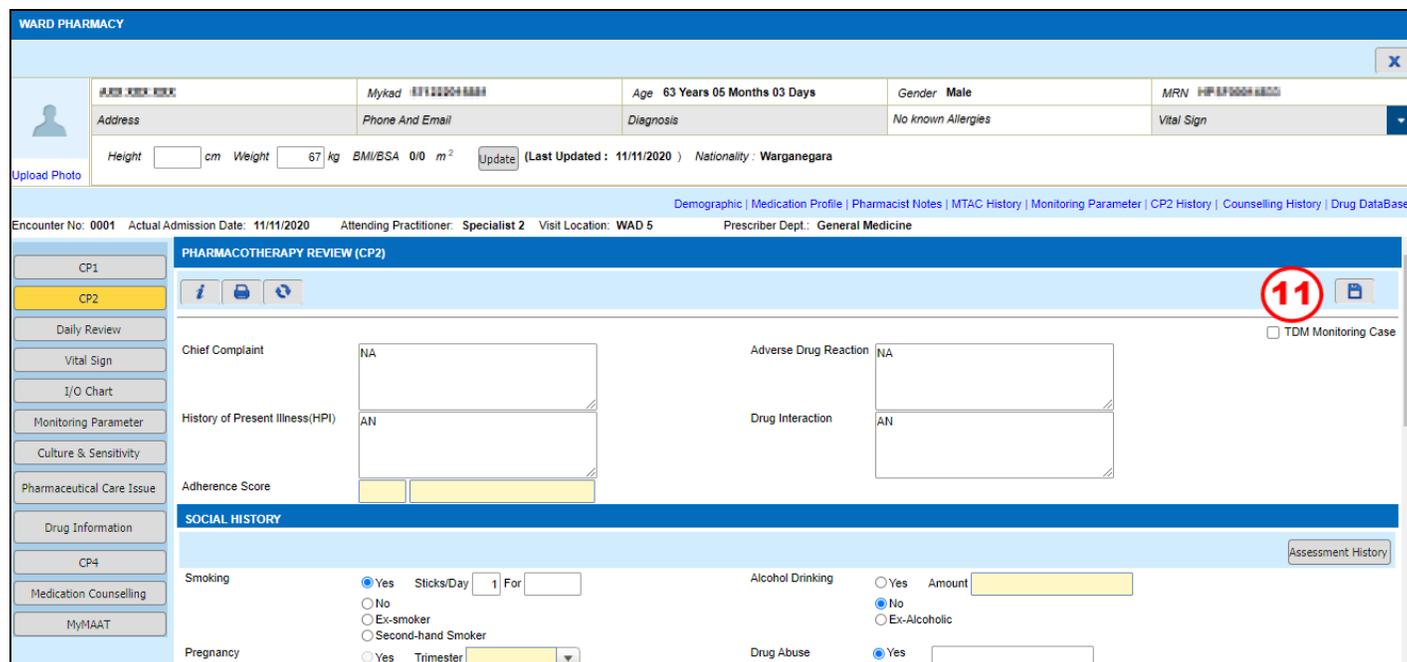


Figure 3.1.1-9 Ward Pharmacy (CP2)

STEP 11

Click on the  button to save the CP2 record and system will display confirmation alert as figure 3.1.1-10

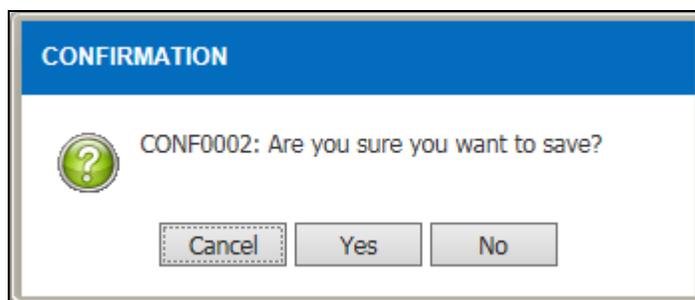
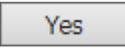


Figure 3.1.1-10 Confirmation Alert

Note

- Click on  the button to save the record.

3.1.2 CP1

The function of this menu is to record a complete patient medication history within 24 hours of admission.

The screenshot shows the 'WARD PHARMACY' interface. At the top, there is a patient information summary including Mykad, Age (63 Years 05 Months 03 Days), Gender (Male), and MRN (HPSF00014833). Below this, there are fields for Address, Phone And Email, Diagnosis, No known Allergies, and Vital Sign. A 'Height' field is set to 67 cm and 'Weight' to 67 kg. An 'Update' button is present with the text '(Last Updated : 11/11/2020)'. A 'Nationality' field is set to 'Warganegara'. A navigation bar includes links for Demographic, Medication Profile, Pharmacist Notes, MTAC History, Monitoring Parameter, CP2 History, Counselling History, and Drug DataBase. The main content area shows 'Encounter No: 0001', 'Actual Admission Date: 11/11/2020', 'Attending Practitioner: Specialist 2', 'Visit Location: WAD 5', and 'Prescriber Dept.: General Medicine'. On the left sidebar, the 'CP1' button is highlighted in yellow and circled in red with the number '1'. The main area displays 'A: Patient Biodata' with fields for Admission Date/Time (11/11/2020 11:58 AM), Ward/Bed (WAD 5 /), PMHx, and Last Discharge/Review date. It also shows 'B: Reason For Admission' and 'C: Allergy & Adverse Drug Reaction' with sub-items '1. Allergy' and '2. ADR'. Under 'D: Drug History', there is a checkbox for 'Patient's own drugs checked?'. A table for 'Active Medication' is shown with the message 'No Records Found!'. A '+ Add Prescription Medication' button is located at the bottom right of the main area.

Figure 3.1.2-1 CP1 Button

STEP 1

Click on the **CP1** tab on the left side

The screenshot shows the 'WARD PHARMACY' interface with the 'CP1' tab selected on the left sidebar, circled in red with the number '2'. The main area displays 'A: Patient Biodata' with fields for Admission Date/Time (17/06/2019 10:56:26 AM), Ward/Bed (Ward 10 - Obstetric & Gynecology), PMHx, and Last Discharge/Review date. It also shows 'B: Reason For Admission' and 'C: Allergy & Adverse Drug Reaction' with sub-items '1. Allergy' and '2. ADR'. Under 'D: Drug History', there is a checkbox for 'Patient's own drugs checked?'. A table for 'Active Medication' is shown with the message 'No Records Found!'. Below this, there is a table for 'InActive Medication' with the following data:

Drug Name	Original Rx No	Order Details	Start Date	End Date	Balance From Previous Supply	Medication Status	Source of Medication	Comments	Remarks
Diphenhydramine HCl Expectorant (Adult)	FKPFI0000096493	15 ml,TDS PRN,5 Days	04/05/2016 11:39:16 PM	09/05/2016 11:39:16 PM	0 ml	FULLY DISPENSED	Hospital Kulim	Outpatient / 04-05-2016 / EncounterNo:0480	
Diphenoxylate with Atropine Sulphate Tablet	U.A&E0000131374	2 tablet,PRN,5 Days	09/08/2016 08:57:03 PM	14/08/2016 08:57:03 PM	0 tablet	FULLY DISPENSED	Hospital Kulim	Outpatient / 09-08-2016 / EncounterNo:2497	

Figure 3.1.2-2 CP1

STEP 2

Enter the necessary information

- a) **A: Patient Biodata**
- b) **B: Reason For Admission**
- c) **D: Drug history**

Note

User can view information of patient Allergy and ADR at **C: Allergy & Adverse Drug Reaction** hyperlink

CP1

A: Patient Biodata
 Admission Date/Time: 17/06/2019 10:56:26 AM
 Ward/Bed: Ward 10 - Obstetric & Gynecology
 PMHx:
 Last Discharge/Review date:
 Prescription Medication:
 Active Medication:
 InActive Medication: [1 - 8 / 8]

C: Allergy & Adverse Drug Reaction
 1. Allergy 2. ADR
D: Drug History
 Patient's own drugs checked?

3 + Add Prescription Medication

Drug Name	Original Rx No	Order Details	Start Date	End Date	Balance From Previous Supply	Medication Status	Source of Medication	Comments	Remarks
No Records Found!									
<input type="checkbox"/>	Diphenhydramine HCl Expectorant (Adult)	FKPFIII0000096493	15 ml,TDS PRN,5 Days	04/05/2016 11:39:16 PM	09/05/2016 11:39:16 PM	0 ml	FULLY DISPENSED	Hospital Kulim	Outpatient / 04-05-2016 / EncounterNo:0480
<input type="checkbox"/>	Diphenoxylate with Atropine Sulphate Tablet	U.A&E0000131374	2 tablet,PRN,5 Days	09/08/2016 08:57:03 PM	14/08/2016 08:57:03 PM	0 tablet	FULLY DISPENSED	Hospital Kulim	Outpatient / 09-08-2016 / EncounterNo:2497

Figure 3.1.2-3 CP1

Note

Active Medication : prescription with Current Medication and Partially Supply

InActive Medication : prescription with fully supply and it is past 1 year from order date including Stop drug except Cancel drug

STEP 3

Click on the **+ Add Prescription Medication** button to enter the information as Figure 3.1.2-4.

Drug Name	Original Rx No	Order Details	Start Date	End Date	Balance From Previous Supply	Medication Status	Source of Medication	Comments	Remarks
<input type="checkbox"/>	Paracetamol 10mg/ml	TDS	17/07/20	17/07/20	10	Continue		ok	

Figure 3.1.2-4 Prescription Medication

STEP 4

Fill in all the necessary information

- a) **Drug Name**
- b) **Original Rx No**
- c) **Order Details**
- d) **Start Date**
- e) **End Date**
- f) **Balance From Previous Supply**

- g) **Medication Status**
- h) **Source of Medication**
- i) **Comments**
- j) **Remarks**

Note

- User is allowed to enter multiple of Medication by following **STEP 3** to **STEP 4**
- User is allowed to delete the information by click on the  button



Non Prescription Medication

5 + Add Non Prescription Medication

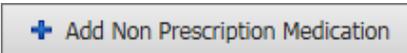
< < 1 / 1 > >

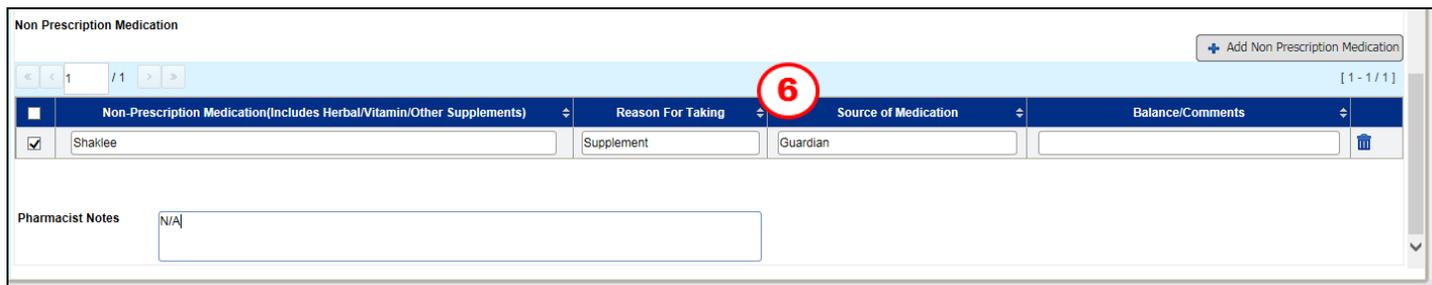
<input type="checkbox"/>	Non-Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Reason For Taking	Source of Medication	Balance/Comments
<i>No Records Found!</i>				

Pharmacist Notes

Figure 3.1.2-6 CP1

STEP 5

Click on the  button to enter the information as Figure 3.1.2-7



Non Prescription Medication

+ Add Non Prescription Medication

< < 1 / 1 > > [1 - 1 / 1]

<input type="checkbox"/>	Non-Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Reason For Taking	Source of Medication	Balance/Comments
<input checked="" type="checkbox"/>	Shaklee	Supplement	Guardian	<input type="text"/> 

Pharmacist Notes

Figure 3.1.2-7 Non Prescription Medication

STEP 6

Fill in the necessary information

- a) **Non-prescription Medication (Includes Herbal/Vitamin/Other Supplemets)**
- b) **Source of Medication**
- c) **Reason for Taking**
- d) **Balance/Comments**

CP1

A: Patient Biodata
 Admission Date/Time: 17/06/2019 10:56:26 AM
 Ward/Bed: Ward 10 - Obstetric & Gynecology
 PMHx:
 Last Discharge/Review date:
B: Reason For Admission
C: Allergy & Adverse Drug Reaction
 1. Allergy 2. ADR
D: Drug History
 Patient's own drugs checked?

Prescription Medication + Add Prescription Medication

Active Medication [1 - 8 / 8]

Drug Name	Original Rx No	Order Details	Start Date	End Date	Balance From Previous Supply	Medication Status	Source of Medication	Comments	Remarks
Benzadamine 3mg/ml throat spray						Continue			

InActive Medication

Drug Name	Original Rx No	Order Details	Start Date	End Date	Balance From Previous Supply	Medication Status	Source of Medication	Comments	Remarks
Diphenhydramine HCl Expectorant (Adult)	FKPFI0000096493	15 ml,TDS PRN,5 Days	04/05/2016 11:39:16 PM	09/05/2016 11:39:16 PM	0 ml	FULLY DISPENSED	Hospital Kulim	Outpatient / 04-05-2016 / EncounterNo:0480	
Diphenoxylate with Atropine Sulphate Tablet	U.A&E0000131374	2 tablet,PRN,5 Days	09/08/2016 08:57:03 PM	14/08/2016 08:57:03 PM	0 tablet	FULLY DISPENSED	Hospital Kulim	Outpatient / 09-08-2016 / EncounterNo:2497	

Figure 3.1.2-9 CP1

STEP 7

Click on the  button to save the CP1 record and confirmation alert will display as Figure 3.1.2-10

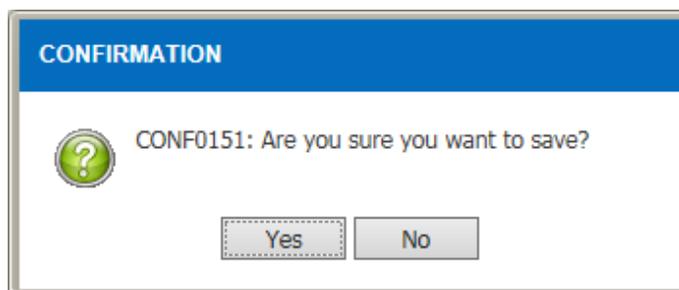


Figure 3.1.2-10 Confirmation Alert

Note

Information under Prescription Medication and Non Prescription will be display in the CP2 if user tick on the information checkbox.

3.1.3 Daily Review

To record Daily review, perform the step below:

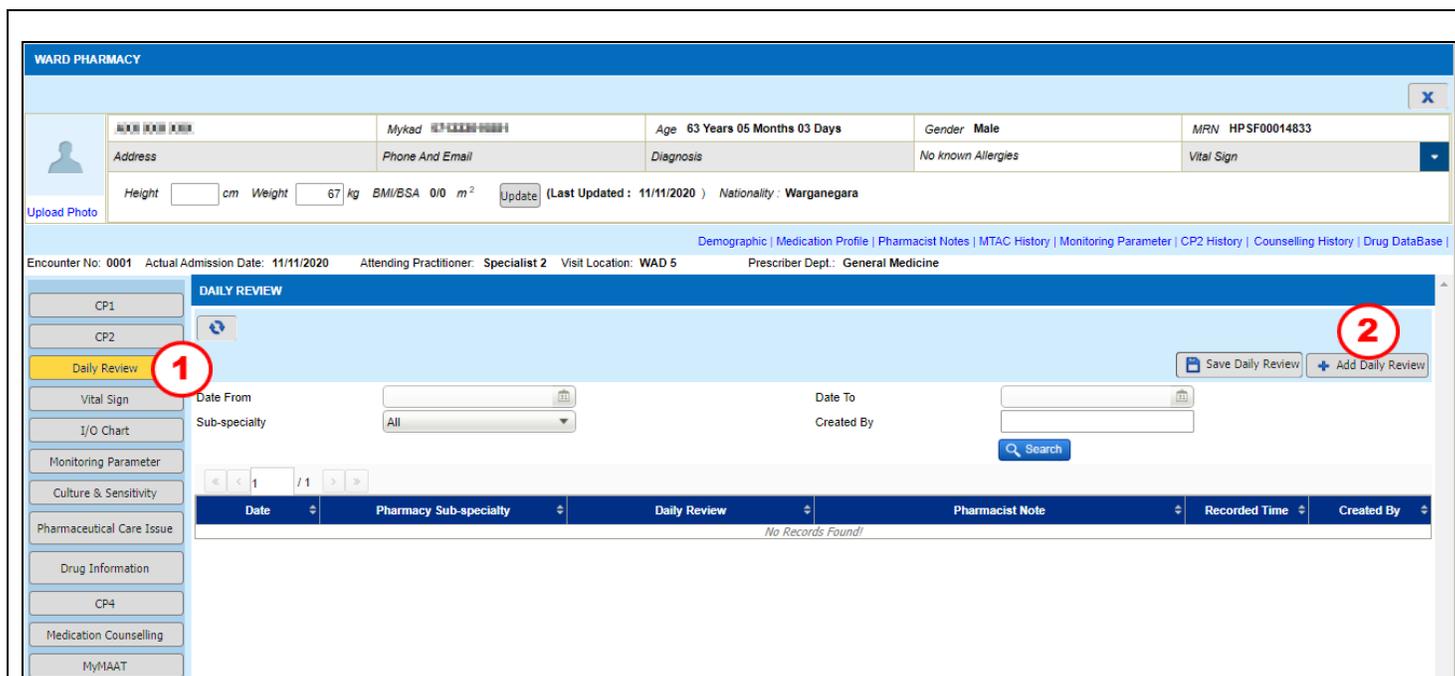


Figure 3.1.3-1 Daily Review

STEP 1

Click on the **Daily Review** tab on the left side.

STEP 2

Click on the **+ Add Daily Review** button and Add Daily Review screen will be display as Figure 3.1.3-2

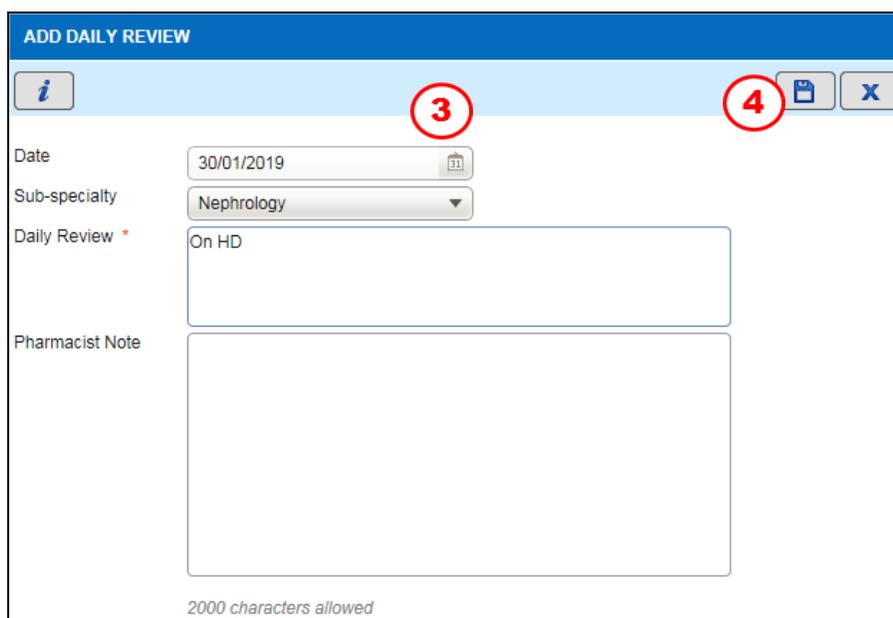


Figure 3.1.3-2 Add Daily Review

STEP 3

Fill in necessary information.

- Date**
- Sub-specialty**
- Daily Review (mandatory)**
- Pharmacist Note**

STEP 4

Click on the  button to save the record and confirmation alert will displayed as Figure 3.1.3-3

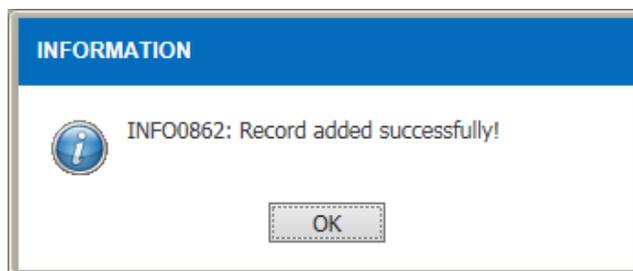
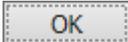
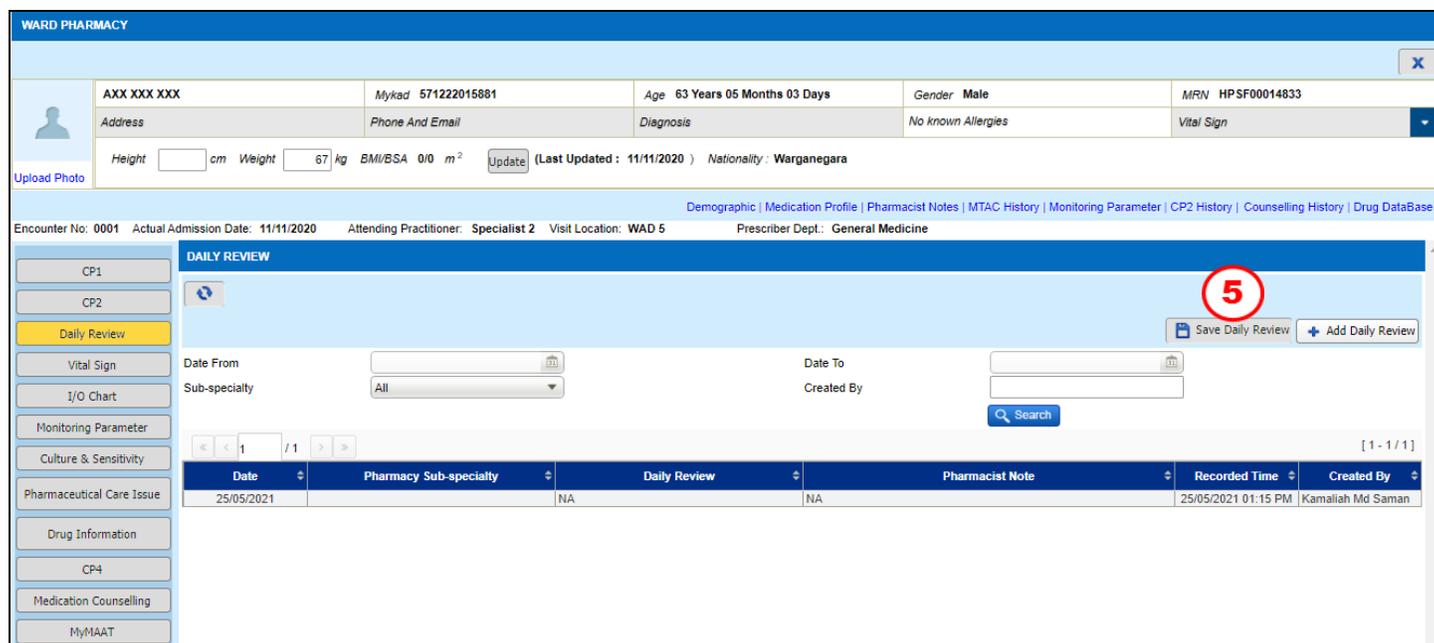


Figure 3.1.3-3 Confirmation Alert

Note

- Click on the  button to successfully save the record
- After save the record, the information will be displayed in the main screen as Figure 3.1.3-4



WARD PHARMACY

AXX XXX XXX Mykad 571222015881 Age 63 Years 05 Months 03 Days Gender Male MRN HPSF00014833

Address Phone And Email Diagnosis No known Allergies Vital Sign

Height cm Weight 67 kg BMI/BSA 0/0 m² Update (Last Updated : 11/11/2020) Nationality : Warganegara

Demographic | Medication Profile | Pharmacist Notes | MTAC History | Monitoring Parameter | CP2 History | Counselling History | Drug DataBase

Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

DAILY REVIEW

 5 Save Daily Review Add Daily Review

Date From Date To

Sub-specialty All Created By

Search

[1 - 1 / 1]

Date	Pharmacy Sub-specialty	Daily Review	Pharmacist Note	Recorded Time	Created By
25/05/2021	NA	NA		25/05/2021 01:15 PM	Kamaliah Md Saman

Figure 3.1.3-4 Daily Review

Note

User can edit the record by double click on the information.

STEP 5

Click on the  button to save the Daily review record

3.1.4 Vital Sign

To record Vital Sign, perform the step below:

WARD PHARMACY

	AXX XXX XXX	Mykad 571222015881	Age 63 Years 05 Months 03 Days	Gender Male	MRN HPSF00014833
Address		Phone And Email	Diagnosis	No known Allergies	
Height <input type="text"/> cm		Weight <input type="text"/> 67 kg	BMI/BSA 0/0 m ²	Update (Last Updated: 11/11/2020) Nationality: Warganegara	

Demographic | Medication Profile | Pharmacist Notes | MTAC History | Monitoring Parameter | CP2 History | Counselling History | Drug DataBase |

Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

VITAL SIGN

CP1

CP2

Daily Review

Vital Sign

I/O Chart

Monitoring Parameter

Culture & Sensitivity

Pharmaceutical Care Issue

Drug Information

CP4

Medication Counselling

MyMAAT

Date/Time

Vital Sign	Result	Normal Range			
		Adult	Children	Neonates	Infant
SBP (mmHg)	<input type="text"/>	120	95 - 105	60 - 90	
DBP (mmHg)	<input type="text"/>	80	53 - 66	20 - 60	
Temp (°C)	<input type="text"/>	37	36.5 - 37	36.5 - 37	
PR (Pulse/min)	<input type="text"/>	60 - 100	60 - 140	85 - 205	100 - 190
RR (Breaths/min)	<input type="text"/>	12 - 18	18 - 30	30 - 60	30 - 40
Pain Score	<input type="text"/>	0 - 10	0 - 10	0 - 10	0 - 10

Remarks

Figure 3.1.4-1 Vital Sign

STEP 1

Click on the Vital Sign tab on the left side.

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Page 17

VITAL SIGN

Date/Time: 26/08/2019 10:59 AM 2

Vital Sign	Result	Normal Range			
		Adult	Children	Neonates	Infant
SBP (mmHg)	118	120	95 - 105	60 - 90	
DBP (mmHg)	79	80	53 - 66	20 - 60	
Temp (*C)	37 3	37	36.5 - 37	36.5 - 37	
PR (Pulse/min)	80	60 - 100	60 - 140	85 - 205	100 - 190
RR (Breaths/min)	14	12 - 18	18 - 30	30 - 60	30 - 40
Pain Score	9	0 - 10	0 - 10	0 - 10	0 - 10

Remarks

Delete Add/Update 4

Result List

< < 1 / 1 > >

Date/Time	SBP	DBP	Temp	PR	RR	Pain Score	Remarks
No Records Found!							

Figure 3.1.4-2 Vital Sign

STEP 2

Select **Sample Date/Time**

STEP 3

Fill in necessary information

- SBP (mmHg)**
- DBP (mmHg)**
- Temp (*C)**
- PR (Pulse/min)**
- RR (Breaths/min)**
- Pain Score**
- Remarks**

STEP 4

Click on the  button to add the information in to Result List as shown in Figure 3.1.4-3

Result List

< < 1 / 1 > > [1 - 1 / 1]

Date/Time	SBP	DBP	Temp	PR	RR	Pain Score	Remarks
26/08/2019 10:59 AM	118	79	37	80	14	9	

Figure 3.1.4-3 Vital Sign

Note

- User is allowed to delete the record by click on the  button
- User can update the record by double click on the information in the Result List and edit the information if applicable.
- Vital sign history can be viewed from Clinical Summary

3.1.5 I/O Chart

To record I/O Chart, perform the step below:

Figure 3.1.5-1 I/O Chart

STEP 1

Click on the **I/O Chart** tab on the left side

STEP 2

Select **Sample Date/Time**

STEP 3

Fill in all necessary information

- IVD**
- Oral Feeding**
- External Feeding**
- PN**
- Others**
- Urine**
- Aspiration/FF**
- Stoma**
- Others**
- Balance**
- Remarks**

STEP 4

Click on the **Add/Update** button to add the information in to Result List

Note

- User is allowed to delete the record by click on the **Delete** button
- User is allowed to update the record by double click on the information in the Result List and edit the information if applicable.

3.1.6 Monitoring Parameter

To record Monitoring Parameter, perform the step below:

WARD PHARMACY

AXX XXX XXX Mykad 571222015881 Age 63 Years 05 Months 03 Days Gender Male MRN HPSF00014833

Address Phone And Email Diagnosis No known Allergies Vital Sign

Height cm Weight 67 kg BMI/BSA 0/0 m² Update (Last Updated: 11/11/2020) Nationality: Warganegara

Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

MONITORING PARAMETER

FBC BUSE/RP LFT Coag CE Urine FEME LP Blood Sugar ABG Thyroid RVD Hepatitis Drug Urine **2** Others

Full Blood Count

Date/Time

1 **Result**

Sample	Result	Normal Range			
		Adult	Children	Neonates	Infant
TWBC	<input type="text"/> x10 ⁹ /L	4 - 11 x 10 ⁹	4.5-13.5	5-21	6-18
Neutrophils	<input type="text"/>	0.4-0.7	55	40	30
Lymphocytes	<input type="text"/>	0.22-0.44	38	63	48
Eosinophils	<input type="text"/>	0-0.08			
Basophils	<input type="text"/>	0-0.03			
RBC (/L)	<input type="text"/> x10 ⁶	4.5 - 6.3 x 10 ¹⁴	3.7 - 6.5 x 10 ¹⁴	3.7 - 6.5 x 10 ¹⁴	
Monocytes	<input type="text"/>				
Hb (g/dL)	<input type="text"/> g/100ml	Male 13.5 - 17.5 Female 12 - 16			

Remarks

Delete Add/Update

Figure 3.1.6-1 Monitoring Parameter

STEP 1

Click on the **Monitoring Parameter** tab on the left side

STEP 2

Select Monitoring Parameter that consist of:

- FBX**
- BUSE/RP**
- LFT**
- Coug**
- CE**
- Urine FEME**
- LP**
- Blood Sugar**
- ABG**
- Thyroid**
- RVD**
- Hepatitis**
- Drug Urine Test**
- Others**

MONITORING PARAMETER

FBC BUSE/RP LFT Coag CE Urine FEME LP Blood Sugar ABG Thyroid RVD Hepatitis Drug Urine Test Others

Full Blood Count

Date/Time

Result		Normal Range			
Sample	Result	Adult	Children	Neonates	Infant
TWBC	<input type="text"/> x10/L	4 - 11 x 10 ⁹	4.5-13.5	5-21	6-18
Neutrophils	<input type="text"/>	0.4-0.7	55	40	30
Lymphocytes	<input type="text"/>	0.22-0.44	38	63	48
Eosinophils	<input type="text"/>	0-0.08			
Basophils	<input type="text"/>	0-0.03			
RBC (/L)	<input type="text"/> x10 ⁶	4.5- 6.3 x 10 ¹²	3.7 - 6.5 x 10 ¹²	3.7 - 6.5 x 10 ¹²	
Monocytes	<input type="text"/>				
Hb (g/dL)	<input type="text"/> g/100ml	Male 13.5 - 17.5 Female 12 - 16			
HCT	<input type="text"/>	Male 0.41 - 0.53 Female 0.36 - 0.46	0.31 - 0.37	0.28 - 0.55	0.33 - 0.39
Platelet (/L)	<input type="text"/> x10L	150 - 400 x 10 ⁹			
MPV	<input type="text"/>				
MCV (fL)	<input type="text"/> fL	80 - 100	76 - 80		70 - 74
MCH (pg/cell)	<input type="text"/>	26 - 34	26-32	29	27
MCHC (g/L)	<input type="text"/>	310 - 370	310 - 370	290 - 380	

Remarks

Delete Add/Update

3 **4**

Result List

< < 1 / 1 > >

Date/Time	TWBC	Neutrophils	Lymphocytes	Eosinophils	Basophils	RBC (/L)	Monocytes	Hb (g/dL)	HCT	Platelet (/L)	MPV	MCV (fL)	MCH (pg/cell)	MCHC (g/L)	Remarks
No Records Found!															

Figure 3.1.6-2 Monitoring Parameter

STEP 3

Fill in all necessary information

STEP 4

Click on the  button to add the information in to Result List

Note

- User is allowed to delete the record by click on the  button
- User is allowed to update the record by double click on the information in the Result List and edit the information if applicable
- The step is the same for all other Monitoring Parameter

3.1.7 Culture & Sensitivity

To record C&S, perform the step below:

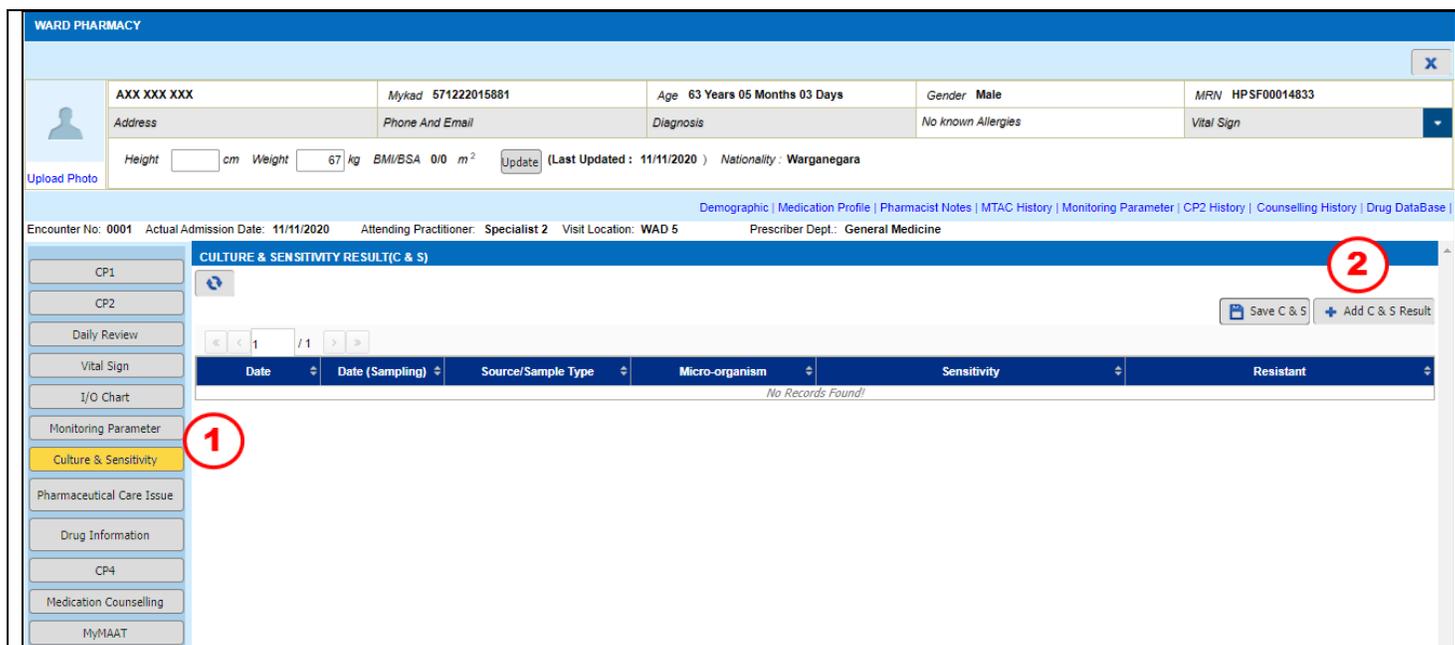
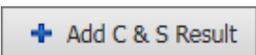


Figure 3.1.7-1 Culture & Sensitivity

STEP 1

Click on the  tab on the left side

STEP 2

Click on the  button and C&S Result screen will displayed as Figure 3.1.7-2

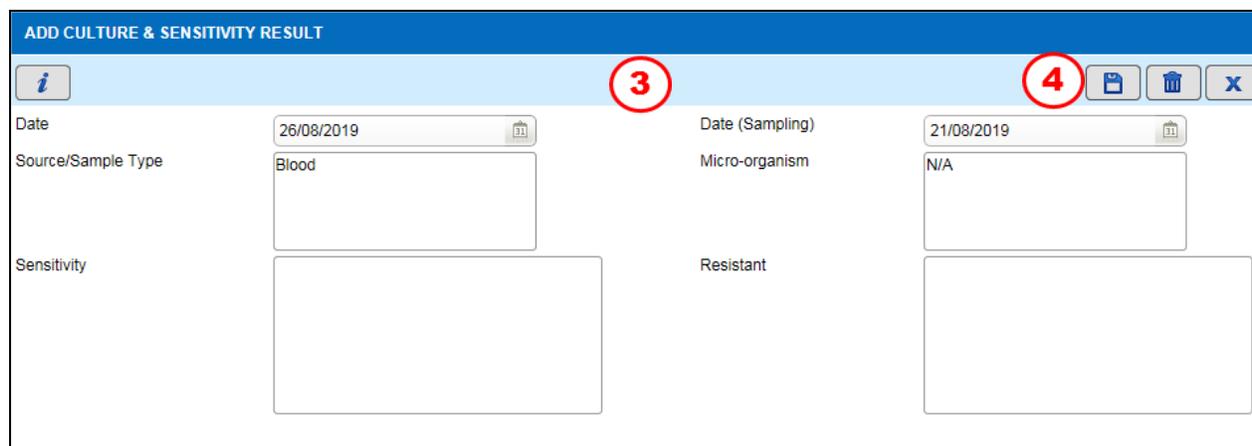


Figure 3.1.7-2 Culture & Sensitivity

STEP 3

Fill in all the necessary information

- Date**
- Date (Sampling)**
- Source/Sample Type**
- Micro-organism**
- Sensitivity**

f) **Resistant**

Note

user is allow to edit **Date** with the condition of 5 days backdated

STEP 4

Click on the  button to save the record and system will display information alert as Figure 3.1.7-3

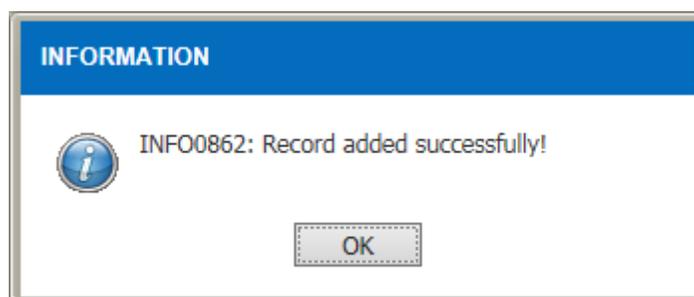


Figure 3.1.7-3 Information Alert

Note

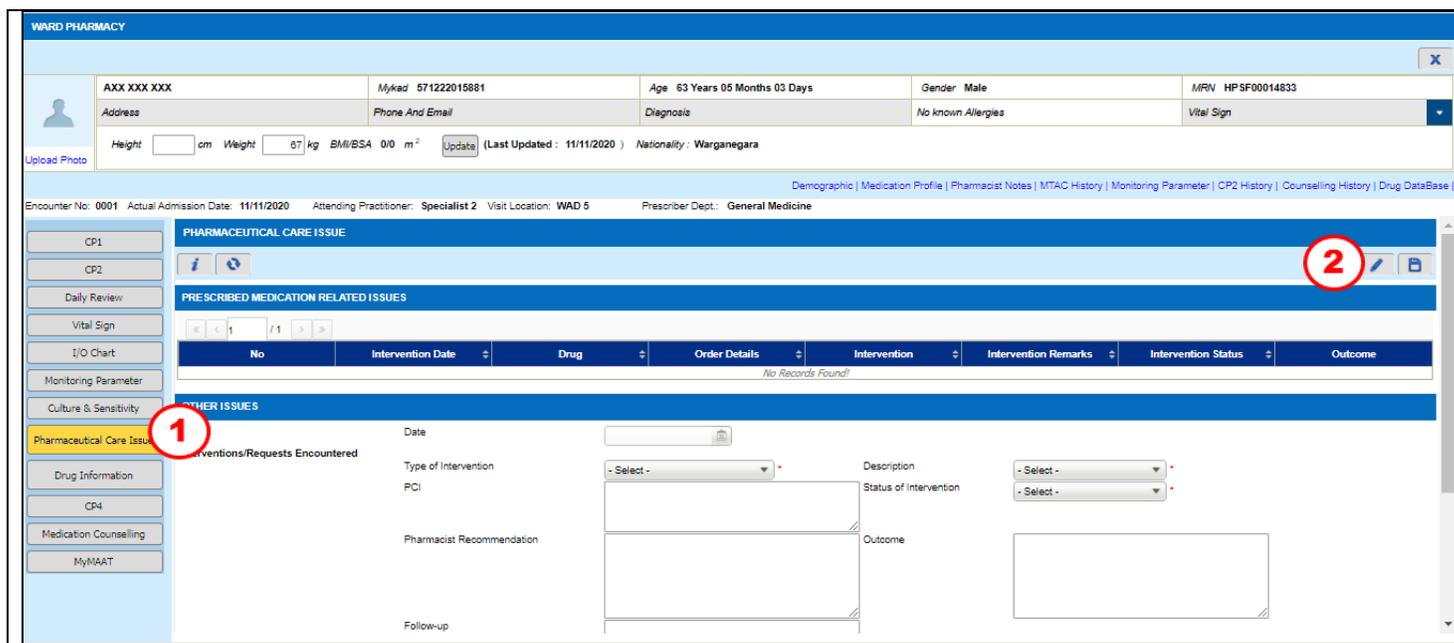
- Click on the  button to successfully save the record
- After saved, the information will be display at the C&S main screen as Figure 3.1.7-4

CULTURE & SENSITIVITY RESULT(C & S)					
Date	Date (Sampling)	Source/Sample Type	Micro-organism	Sensitivity	Resistant
26/08/2019	21/08/2019	Blood	N/A		

Figure 3.1.7-4 Culture & Sensitivity

3.1.8 Pharmaceutical Care Issue

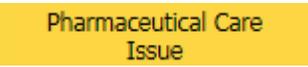
To record Pharmaceutical Care Issue, perform the step below:



The screenshot shows the 'WARD PHARMACY' interface. At the top, there is a patient information summary with fields for Mykad (571222015881), Age (63 Years 05 Months 03 Days), Gender (Male), and MRN (HPSF00014833). Below this is a table for 'PHARMACEUTICAL CARE ISSUE' with columns: No, Intervention Date, Drug, Order Details, Intervention, Intervention Remarks, Intervention Status, and Outcome. A red circle '2' is placed over the 'PHARMACEUTICAL CARE ISSUE' header. On the left sidebar, a red circle '1' is placed over the 'Pharmaceutical Care Issue' tab.

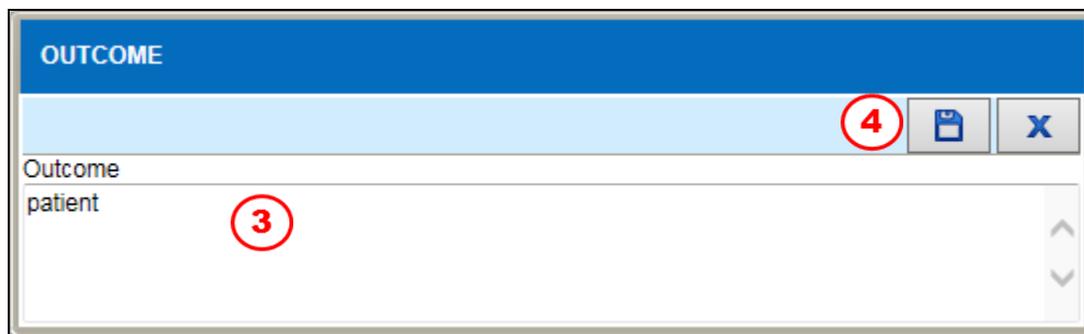
Figure 3.1.8-1 Pharmaceutical Care Issue

STEP 1

Click on the  tab on the left side

STEP 2

Enter the **Prescribed Medication Related Issues** if applicable by click on the **Outcome** hyperlink



The screenshot shows the 'OUTCOME' form. The header is blue with the text 'OUTCOME'. Below the header, there is a text input field containing the word 'patient'. A red circle '3' is placed over the text 'patient'. To the right of the text field, there are two buttons: a save button (floppy disk icon) and a close button (X icon). A red circle '4' is placed over the save button.

Figure 3.1.8-2 Outcome

STEP 3

Enter the information **outcome**

STEP 4

Click on the  button to save the record

Note

Prescribed Medication Related Issues is only available if pharmacists do the prescription intervention during dispensing stage

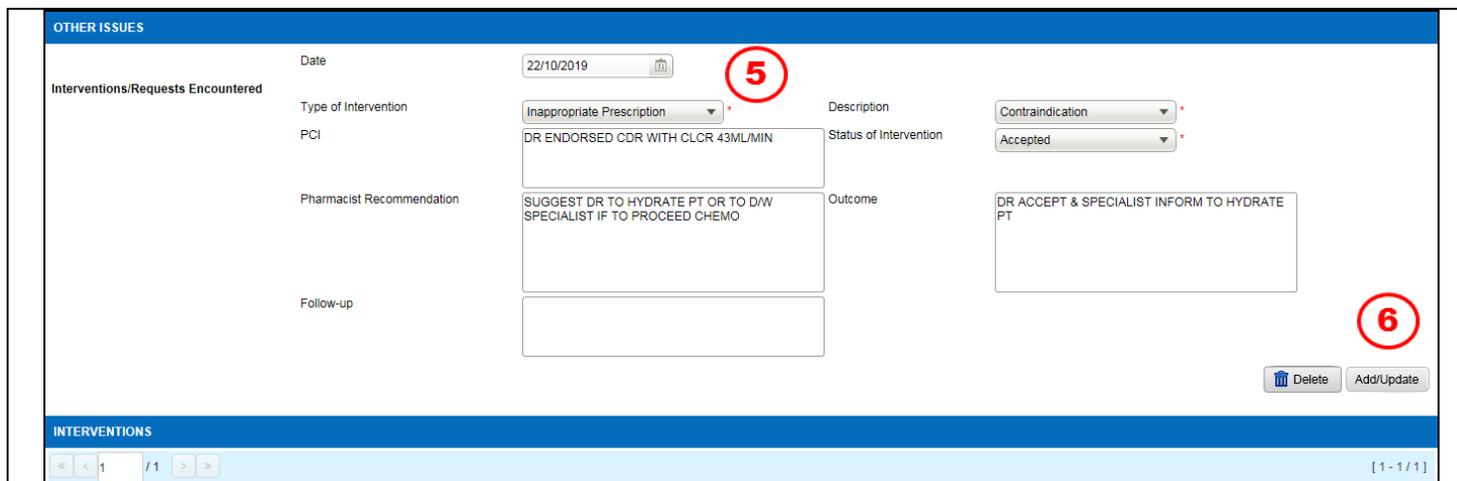


Figure 3.1.8-3 Other Issues

STEP 5

Enter '**Other Issues**' if applicable

- a) **Date**
- b) **Type of Intervention**
 - **Inappropriate Prescription**
 - **Incomplete Prescriptions**
 - **Incorrect/Inappropriate/Inadequate Regimen**
 - **Miscellaneous**
- c) **PCI**
- d) **Pharmacist Recommendation**
- e) **Description**
 - **Contraindication**
 - **Drug Interaction**
 - **Incompatibility**
 - **Polypharmacy**
- f) **Status of Intervention**
 - **Accepted**
 - **Not Accepted**
 - **Not Available**
- g) **Outcome**
- h) **Follow-up**

Note

This section is use for ward pharmacist to record other PCI issue that is not related to dispensing intervention.

STEP 6

Click on the  button to add the record and it will display in Interventions section as Figure 3.1.8-4

INTERVENTIONS								
Date	Type of Intervention	Description	PCI	Pharmacist Recommendation	Status of Intervention	Outcome	Follow-up	Check list
22/10/2019	Inappropriate Prescription	Contraindication	DR ENDORSED CDR WITH CLCR 43ML/MIN	SUGGEST DR TO HYDRATE PT OR TO D/W SPECIALIST IF TO PROCEED CHEMO	Accepted	DR ACCEPT & SPECIALIST INFORM TO HYDRATE PT		<input type="checkbox"/>

Figure 3.1.8-4 Interventions

Note

- To edit information in **'Interventions'** section, double click on the data then click on the  button. Change the information that display in the **'Other Issue'** section.
- To delete information in **'Interventions'** section, click on the information checkbox then click on the  button.

PHARMACEUTICAL CARE ISSUE								
PRESCRIBED MEDICATION RELATED ISSUES								
No	Intervention Date	Drug	Order Details	Intervention	Intervention Remarks	Intervention Status	Outcome	
1	25/02/2016 11:02 AM	Insulin regular/isophane (Insuman Comb) 100 IU/mL Penfill	1 IU, BD (twice daily), 6 Months	Others	CHANGE QTY TO 16	Accepted	Outcome	<input type="checkbox"/>
2	05/11/2015 11:41 AM	Insulin regular/isophane (Insuman Comb) 100 IU/mL Penfill	1 IU, BD (twice daily), 4 Months	Others	change order quantity to 10	Accepted	Outcome	<input type="checkbox"/>

Figure 3.1.8-5 Pharmaceutical Care Issue

STEP 7

Click on the  button to save the record and system will displayed confirmation alert as Figure 3.1.8-6

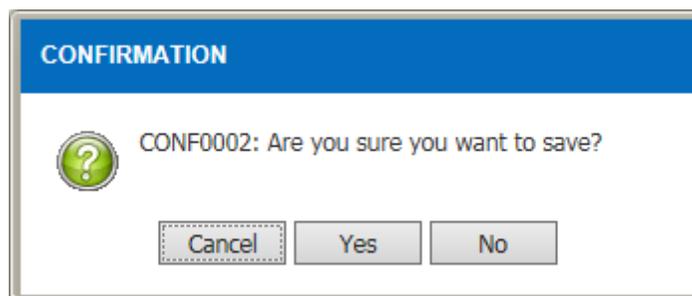


Figure 3.1.8-6 Confirmation Alert

Note

Click on the  button to save the record and system will display information alert as Figure 3.1.8-7

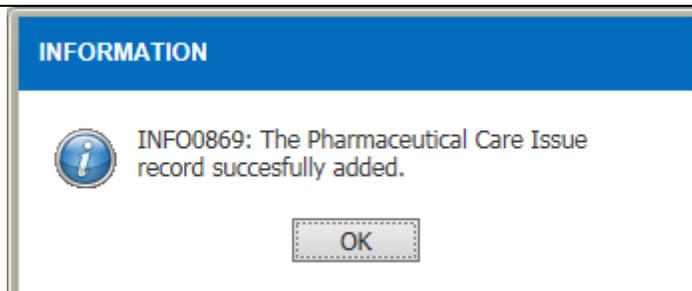


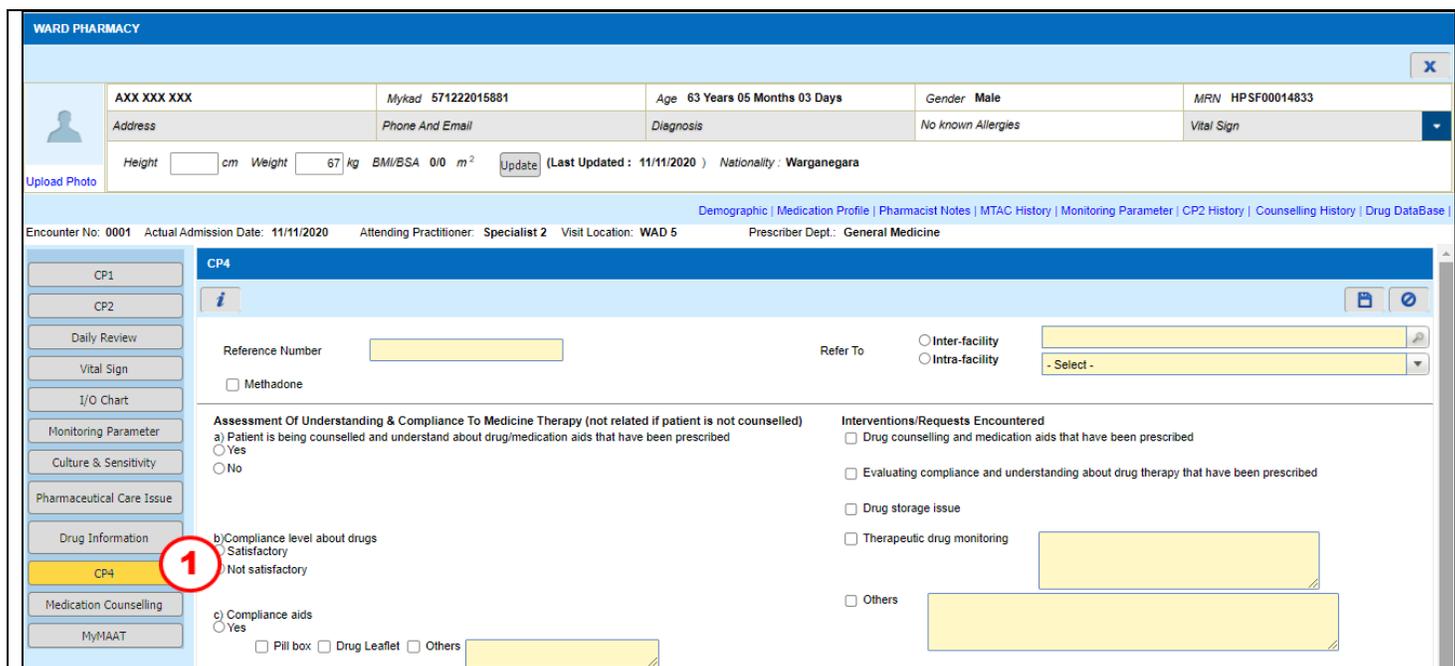
Figure 3.1.8-7 Information Alert

Note

Click on the  button to successfully save

3.1.9 CP4

To record CP4, perform the step below:



WARD PHARMACY

AXX XXX XXX Mykad 571222015881 Age 63 Years 05 Months 03 Days Gender Male MRN HPSF00014833

Address Phone And Email Diagnosis No known Allergies Vital Sign

Height [] cm Weight 67 kg BMI/BSA 0/0 m² Update (Last Updated : 11/11/2020) Nationality : Warganegara

Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

CP4

Reference Number [] Refer To Inter-facility Intra-facility [- Select -]

Methadone

Assessment Of Understanding & Compliance To Medicine Therapy (not related if patient is not counselled)

a) Patient is being counselled and understand about drug/medication aids that have been prescribed

Yes

No

b) Compliance level about drugs

Satisfactory

Not satisfactory

c) Compliance aids

Yes

Pill box Drug Leaflet Others []

Interventions/Requests Encountered

Drug counselling and medication aids that have been prescribed

Evaluating compliance and understanding about drug therapy that have been prescribed

Drug storage issue

Therapeutic drug monitoring []

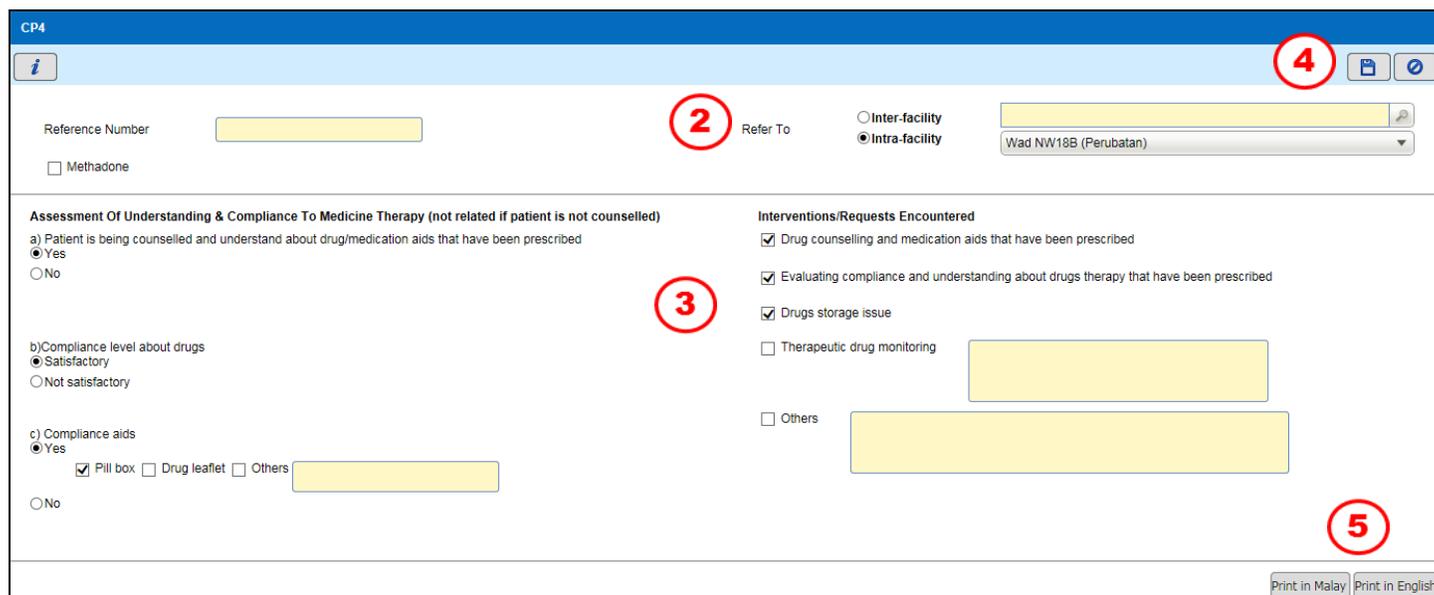
Others []

Figure 3.1.9-1 CP4

STEP 1

Click on the **CP4** tab on the left side

To Record CP4



The screenshot shows the CP4 form interface. Callout 2 points to the 'Refer To' radio buttons (Inter-facility and Intra-facility). Callout 3 points to the 'Interventions/Requests Encountered' section. Callout 4 points to the save button (floppy disk icon) in the top right. Callout 5 points to the 'Print in Malay' and 'Print in English' buttons at the bottom right.

Figure 3.1.9-2 CP4

STEP 2

Select **Refer To**

- a) **Inter-facility**
- b) **Intra-facility**

STEP 3

Fill up the question

STEP 4

Click on the  button to save the record

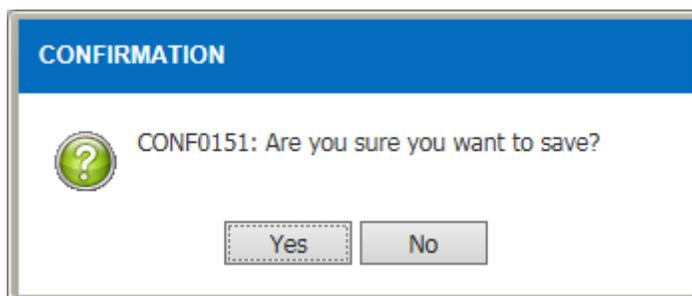


Figure 3.1.9-3 Confirmation Alert

Note

Click on the  button to save the record

STEP 5

Click on  the button to print in Malay and  button to print in English

To Record CP4 Methadone



CP4

Reference Number

Refer To Inter-facility Intra-facility

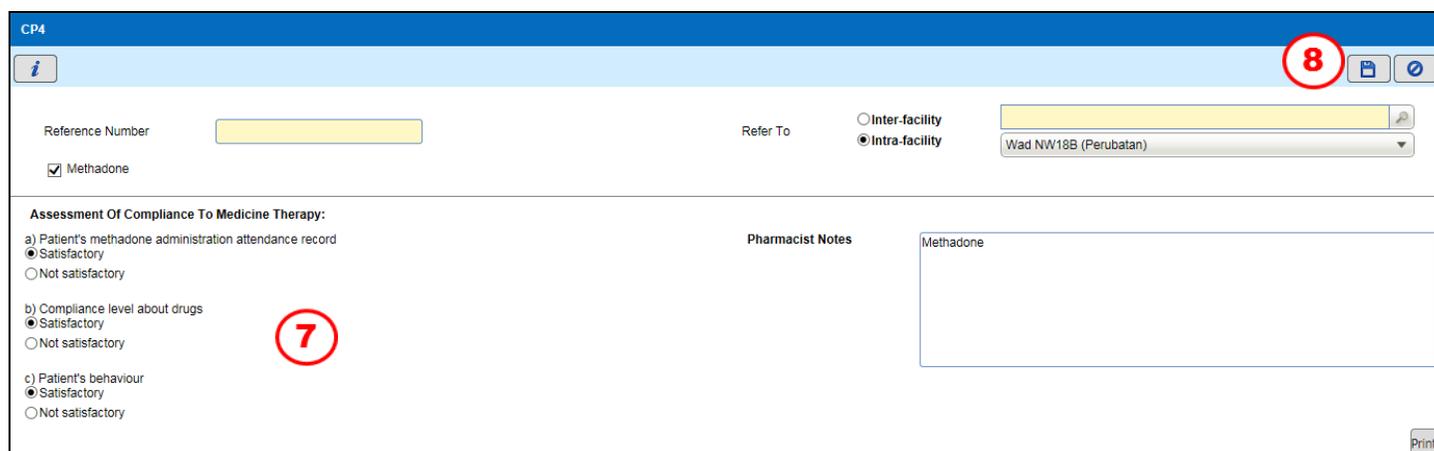
Methadone

Wad NW18B (Perubatan)

Figure 3.1.9-6 CP4 Methadone

STEP 6

Click on the **Methadone** checkbox



CP4

Reference Number

Refer To Inter-facility Intra-facility

Methadone

Assessment Of Compliance To Medicine Therapy:

a) Patient's methadone administration attendance record
 Satisfactory
 Not satisfactory

b) Compliance level about drugs
 Satisfactory
 Not satisfactory

c) Patient's behaviour
 Satisfactory
 Not satisfactory

Pharmacist Notes: Methadone

Print

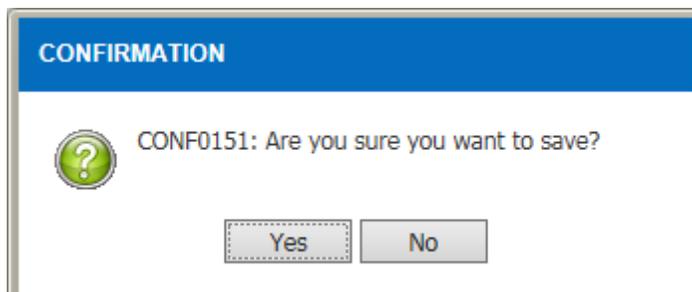
Figure 3.1.9-7 CP4 Methadone

STEP 7

Fill up the question

STEP 8

Click on the  button to save the record



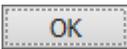
CONFIRMATION

CONF0151: Are you sure you want to save?

Yes No

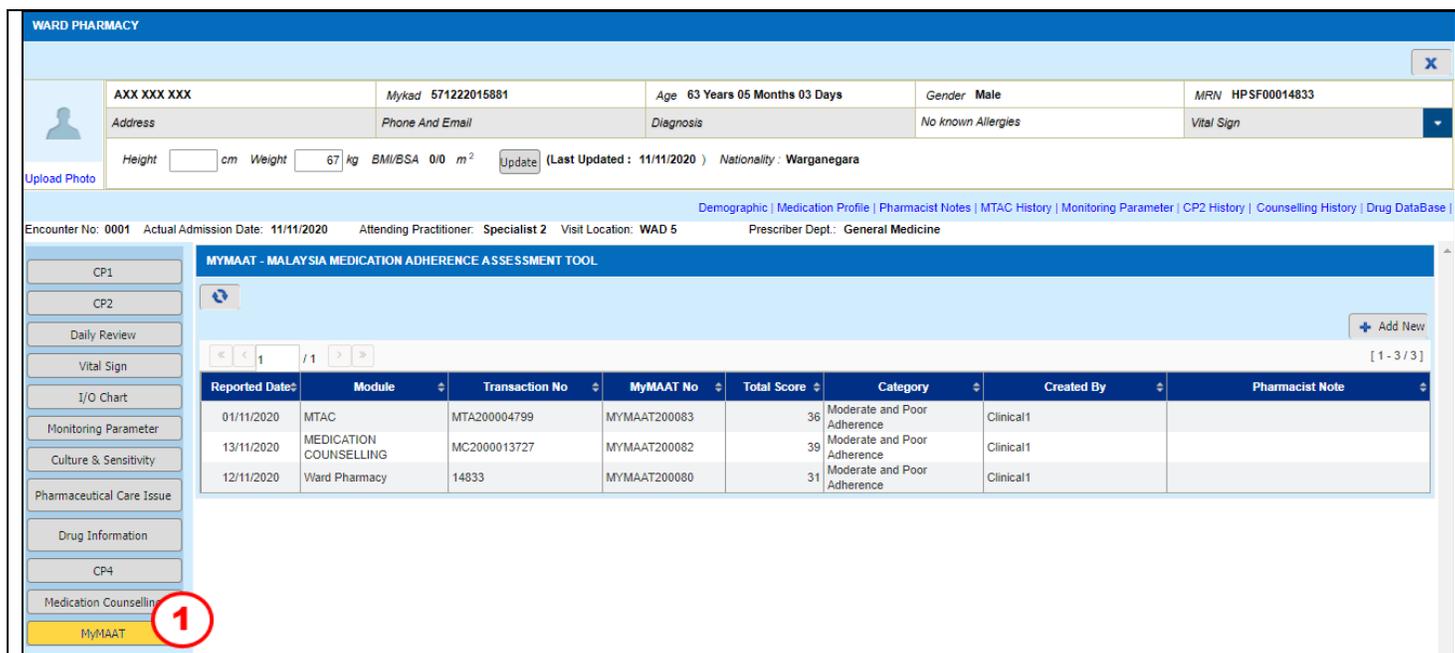
Figure 3.1.9-8 Confirmation Alert

Note

- Click on the  button to save the record
- Click on  the button to vie/print report

3.1.10 MyMAAT

To record MyMAAT, perform the step below:



WARD PHARMACY

AXX XXX XXX Mykad 571222015881 Age 63 Years 05 Months 03 Days Gender Male MRN HPSF00014833

Address Phone And Email Diagnosis No known Allergies Vital Sign

Height [] cm Weight [67] kg BMI/BSA 0/0 m² Update (Last Updated: 11/11/2020) Nationality: Warganegara

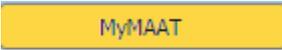
Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

MYMAAT - MALAYSIA MEDICATION ADHERENCE ASSESSMENT TOOL

Reported Date	Module	Transaction No	MyMAAT No	Total Score	Category	Created By	Pharmacist Note
01/11/2020	MTAC	MTA200004799	MYMAAT200083	38	Moderate and Poor Adherence	Clinical1	
13/11/2020	MEDICATION COUNSELLING	MC2000013727	MYMAAT200082	39	Moderate and Poor Adherence	Clinical1	
12/11/2020	Ward Pharmacy	14833	MYMAAT200080	31	Moderate and Poor Adherence	Clinical1	

Figure 3.1.10-1 MyMAAT

STEP 1

Click on the  tab on the left side.

Note

- Transaction number for MTAC & Medication Counselling will display MTAC Order No & Medication Counselling Order No
- Transaction number for Ward pharmacy, will display Visit date & visit no
- MyMAAT number is a running number generated for each MyMAAT record created

WARD PHARMACY

AXX XXX XXX Mykad 571222015881 Age 63 Years 05 Months 03 Days Gender Male MRN HPSF00014833

Address Phone And Email Diagnosis No known Allergies Vital Sign

Height cm Weight 67 kg BMI/BSA 0/0 m² Update (Last Updated : 11/11/2020) Nationality : Warganegara

Demographic | Medication Profile | Pharmacist Notes | MTAC History | Monitoring Parameter | CP2 History | Counselling History | Drug DataBase

Encounter No: 0001 Actual Admission Date: 11/11/2020 Attending Practitioner: Specialist 2 Visit Location: WAD 5 Prescriber Dept.: General Medicine

MYMAAT - MALAYSIA MEDICATION ADHERENCE ASSESSMENT TOOL

CP1
CP2
Daily Review
Vital Sign
I/O Chart
Monitoring Parameter
Culture & Sensitivity
Pharmaceutical Care Issue
Drug Information
CP4
Medication Counselling
MyMAAT

Reported Date	Module	Transaction No	MyMAAT No	Total Score	Category	Created By	Pharmacist Note
01/11/2020	MTAC	MTA200004799	MYMAAT200063	36	Moderate and Poor Adherence	Clinical1	
13/11/2020	MEDICATION COUNSELLING	MC2000013727	MYMAAT200082	39	Moderate and Poor Adherence	Clinical1	
12/11/2020	Ward Pharmacy	14833	MYMAAT200080	31	Moderate and Poor Adherence	Clinical1	

Figure 3.1.10-2 MyMAAT

STEP 2

Click on the add new button to record

MYMAAT ASSESSMENT

5 Patient Name: AXX XXX XXX Module: WARD PHARMACY Date: 25/05/2021 4

No	Item	Strongly Disagree (5)	Disagree (4)	Neutral (3)	Agree (2)	Strongly Agree (1)
1	In the past one month, I frequently failed to take my medication in accordance with the doctor's instruction.	<input type="radio"/>				
2	In the past one month, I reduced my medication intake when I felt better.	<input type="radio"/>				
3	In the past one month, I took my medication alternately.	<input type="radio"/>				
4	I was often late on / missed the appointment date to get the supplies of my follow-up medication at the pharmacy counter.	<input type="radio"/>				
5	I have excess supply of the prescribed medication at home.	<input type="radio"/>				
6	I did not fully comply with the prescriptions because I felt it was unnecessary/insignificant.	<input type="radio"/>				
7	In the past one month, I frequently failed to remember to take my medication.	<input type="radio"/>				
8	I regularly take less medication than prescribed for fear of the side effects to my body.	<input type="radio"/>				
9	I will miss/not take my medication if no one reminds me to do so.	<input type="radio"/>				
10	I am uncertain about my daily medication doses.	<input type="radio"/>				
11	I am unable to manage my medication intake properly.	<input type="radio"/>				
12	Without support or help from the loved ones, I lack motivation to take my medication as prescribed by the doctor.	<input type="radio"/>				
TOTAL		0	0	0	0	0

Pharmacist Notes

Total 0
(Minimum score = 12, Maximum score = 60)

Category Moderate and Poor Adherence

Figure 3.1.10-3 Confirmation Alert

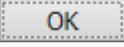
STEP 3

Key in all the details accordingly

STEP 4

Click on the button to save the record

Note

- Click on the  button to save the record
- Click on  the button to view in Malay and  button to view in English
- MyMAAT display the results in MTAC module and score will be displayed according to score range below;
 - Score ≥ 50 , display category as “Good Adherence”
 - Score < 50 , display category as “Moderate and Poor Adherence”

STEP 5

Click on print button to print in the report



KEMENTERIAN KESIHATAN MALAYSIA
Hospital Pakar Sultanah Fatimah
MALAYSIA MEDICATION ADHERENCE ASSESSMENT TOOL (MyMAAT)

Patient's Name	AAX XXXX XXXX	MRN	HPSF00014833	
		Date	25/05/2021	
IC No/Other Identification	071222015861	Location	WARD 5	

Part I: Perception on Patient's Adherence Towards Medication

No	Item	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
		5	4	3	2	1
1	In the past one month, I frequently failed to take my medication in accordance with the doctor's instruction.		✓			
2	In the past one month, I reduced my medication intake when I felt better.	✓				
3	In the past one month, I took my medication alternately.			✓		
4	I was often late on I missed the appointment date to get the supplies of my follow-up medication at the pharmacy counter.			✓		
5	I have excess supply of the prescribed medication at home.			✓		
6	I did not fully comply with the prescriptions because I felt it was unnecessary/insignificant.				✓	
7	In the past one month, I frequently failed to remember to take my medication.				✓	
8	I regularly take less medication than prescribed for fear of the side effects to my body.				✓	
9	I will miss/not take my medication if no one reminds me to do so.					✓
10	I am uncertain about my daily medication doses.					✓
11	I am unable to manage my medication intake properly.			✓		
12	Without support or help from the loved ones, I lack motivation to take my medication as prescribed by the doctor.		✓			
Total		5	8	12	6	2
(Minimum score = 12; Maximum score = 60)		33				

Malaysia Medication Adherence Assessment Tool (MyMAAT)_2020RUKM & UKRM

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Figure 3.1.10-4 Print Report



KEMENTERIAN KESIHATAN MALAYSIA
Hospital Pakar Sultanah Fatimah
MALAYSIA MEDICATION ADHERENCE ASSESSMENT TOOL (MyMAAT)

Part II : Category of Patient's Adherence Towards Medication

Patient's adherence category based on total score as stated below:

Category	Total Score
Good adherence	≥ 54
Moderate and poor adherence	< 54

Part III : Summary on Patient's Adherence Towards Medication

Total Score	33
Adherence Category	Moderate and Poor Adherence
Pharmacist's Note	

Pharmacist : Kamalish Md Seman

Date : 25/05/2021
Module : WARD PHARMACY

Malaysia Medication Adherence Assessment Tool (MyMAAT)_2020RKM & UKM

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Figure 3.1.10-5 Print reports

4.0 Acronyms

Abbreviation	Definition
PhIS	Pharmacy Information System
CPS	Clinical Pharmacy System
PM	Patient Management
eGL	Electronic Guarantee Letter
HRMIS	Human Resource Management System
MRN	Medical Record Number
MOH	Ministry of Health

5.0 Links to Clinical Modules

No	Module	PDF Links	No	Module	PDF Links
1	<i>Inpatient</i>	Click Here	12	<i>CDR Dispensing</i>	Click Here
2	<i>CDR Order</i>	Click Here	13	<i>Methadone Dispensing</i>	Click Here
3	<i>TDM Order</i>	Click Here	14	<i>PN Dispensing</i>	Click Here
4	<i>PN Order</i>	Click Here	15	<i>Order Management</i>	Click Here
5	<i>IV Order</i>	Click Here	16	<i>Patient Management</i>	Click Here
6	<i>Prepacking</i>	Click Here	17	<i>Radiopharmaceuticals</i>	Click Here
7	<i>Galenical</i>	Click Here	18	<i>Outpatient</i>	Click Here
8	<i>MTAC</i>	Click Here	19	<i>Special Drug Request</i>	Click Here
9	<i>ADR & DAC</i>	Click Here	20	<i>MAR</i>	Click Here
10	<i>Medication Counselling</i>	Click Here	21	<i>DICE</i>	Click Here
11	<i>Ward Pharmacy</i>	Click Here	22		