



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

Pharmacy Based User Manual Medication Therapy Adherence Clinic (MTAC)

Version	: 6th Edition
Document ID	: PB_U. MANUAL_MTAC



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Reference ID : PB_U. MANUAL_MTAC-6th Edition

Application reference: PhIS & CPS v1.6.1

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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 to 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 Medication Therapy Adherence Clinic (MTAC) sub-module and its key features and functionalities. The primary objective is to guide user through the process of completing PhIS application process.

User will understand the following activities in details:

- MTAC Order
- MTAC Reporting

























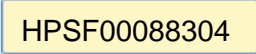
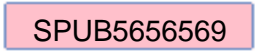


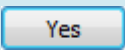

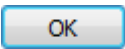


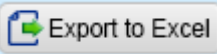




1.3 Organised Sections

These are the sections within this document:

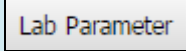
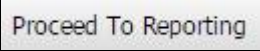
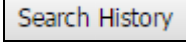
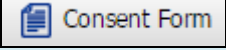



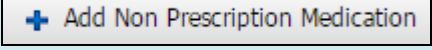

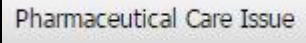




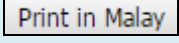
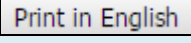
- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : MTAC
- Section 4 : Acronyms
- Section 5 : Links to clinical modules

2.0 Application Standard Features

2.1 PhIS Legend

Standard Legend			
	Blank Field		Drop Down Box
	Reset Login		Login to PhIS
	Expand Menu		Collapse Menu
	Display Home Tab		Expand Module
	Collapse Module		Logout from PhIS
	Close All Tabs		Refresh
	Search First Page/ Previous Page		Search Next Page/Last Page
	Search Up/Down Button		Hyperlink
	Save		Show Help
	Search Icon		Add/Create New Record
	Calendar Icon		Search Record
	Close Window		Add/Update Button
	Auto generate an information by the system		Auto generate record no by the system
	Mandatory Field		Cancel Button
	Yes Button		No Button
	OK Button		Edit Record
	Print		Export report from PDF to Excel
	Check Box		Radio Button
	Cancel		Delete Record

MTAC Module Legend

	Lab Parameter Button		Proceed To Reporting Button
	Search History Button	Audit Trail	Audit Trail Hyperlink
	Consent Form Button		CP1 Button
	CP4 Button		Add Prescription Medication Button
Calculate Score	Calculate Score Hyperlink		Add Non Prescription Medication Button
	Save & Continue Button		Pharmaceutical Care Issue Button
	Malay Language Button		Assessment Form for Diabetes Mellitus Button
	Medication Order Button		Confirm Button
	Print In Malay Button		Print In English Button

Note

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

2.2 Latest Enhancement and Updates

Latest Functions	Page
Add MTAC History link in all dispensing screen (patient banner): <ol style="list-style-type: none"> Acknowledgement (OP) Screening and Verification (OPIP) Preparation (OPIP) Dispensing (OPIP) VAS (OP) Single Stage (OP) Methadone Dispensing 	Related screen
CP1 Default to "No history of taking Non-Prescription Medication" if no data in table (in printed report).	34
PCI Screen <ol style="list-style-type: none"> Add column for intervention remarks in PCI screen and rename other details to order details. 	46
<ol style="list-style-type: none"> Add intervention date in printed report for prescribed Medication issue. 	34
<ol style="list-style-type: none"> Add "Prescriber Review" Column 	34
<ol style="list-style-type: none"> Show "Current Medication" in the report printing 	34
MTAC Reporting Screen <ol style="list-style-type: none"> To remove "Recommended Lab Test field" and rearrange the Pharmacist Note and Remarks field To rename 'Compliance score' to "Adherence score" Replace Medication Order button, put at the bottom screen. 	30
<ol style="list-style-type: none"> Display previous adherence score record from previous visit (if any – max 5 newest record) 	33

3.0 MTAC

Overview

The MTAC module emphasis on medication management to improve quality and safety include. Implementing safe, organized, and efficient drug-dispensing systems is essential for controlling costs and assuring that the medical prescription is safely followed as requested and within the relevant deadline. An appropriate dispensing system and cost-effectiveness of patient care. MTAC is operated to drug therapy monitoring and patient's education in improving their ability to successfully manage disease condition and reducing medication error.

User Group

This module is intended for registration staff and pharmacist (subject to the user assigned by the facility)

Functional Diagram

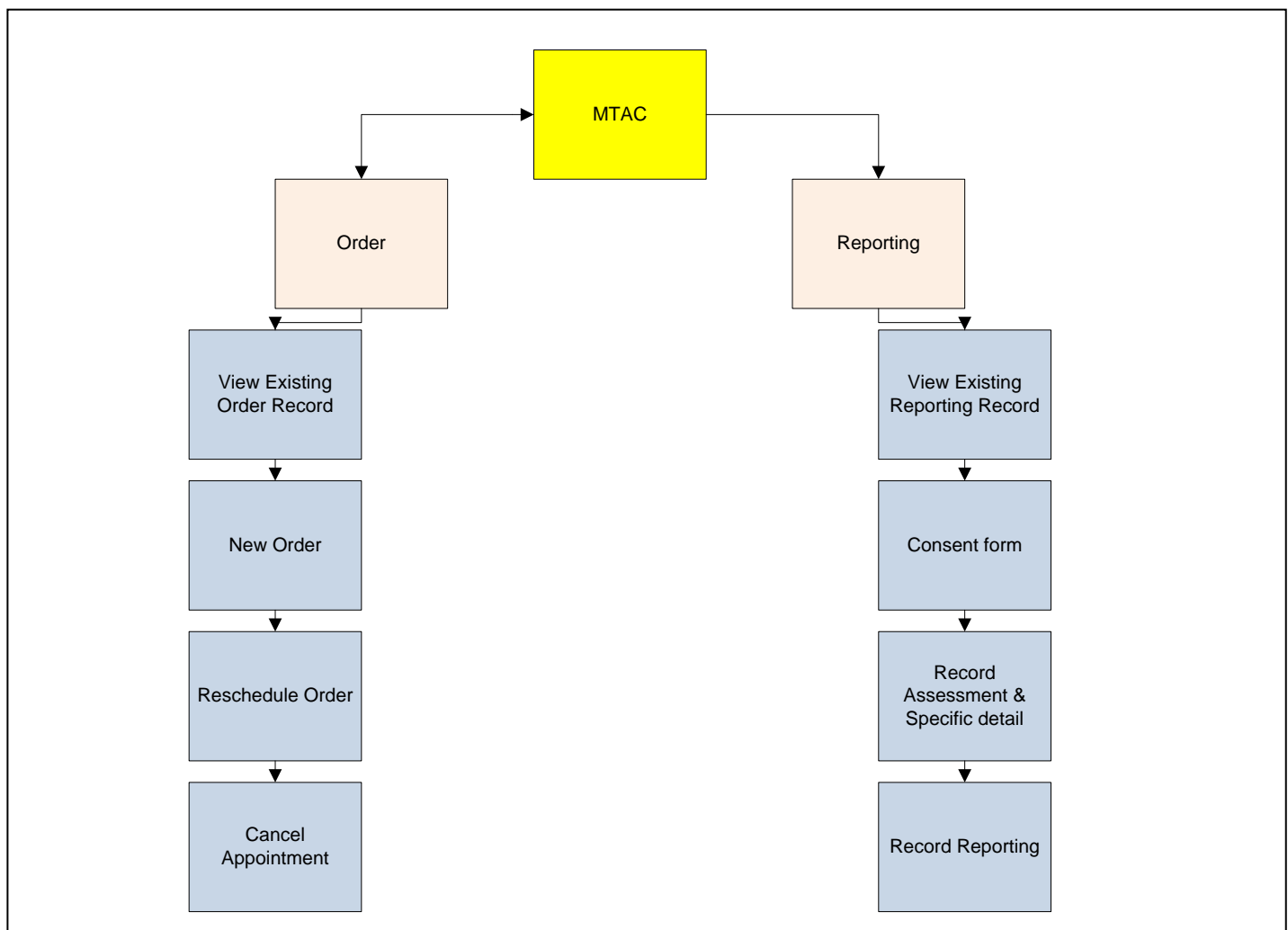


Figure 3.0-1

Functional Description

MTAC comprises of two (2) main functions:

Order

MTAC Order is to record the type of MTAC for counselling and to schedule appointment dates.

Reporting

Reporting is used to record assessment, specific details and report of counselling

There are ten (10) types of MTAC with No Specific Details

1. Cardiac Rehab Program
2. Chronic Pain
3. Gastrohepatology
4. Hemophilia
5. Hepatitis
6. Neurology
7. Osteoporosis
8. Psoriasis
9. Psychiatry
10. Rheumatology

There are ten (10) types of MTAC with Specific Details

1. Chronic Kidney Disease
2. Diabetes Mellitus
3. Dialysis
4. Geriatric
5. Heart Failure
6. Methadone
7. Renal Transplant
8. Respiratory
9. Retro Viral Disease
10. Warfarin

3.1 MTAC Order

MTAC order will be ordered by prescriber from order management. Pharmacists are also able to create a new order at the MTAC Order screen

3.1.1 View Existing MTAC Order

MTAC Order screen allow users to search and view existing patients' MTAC order records.

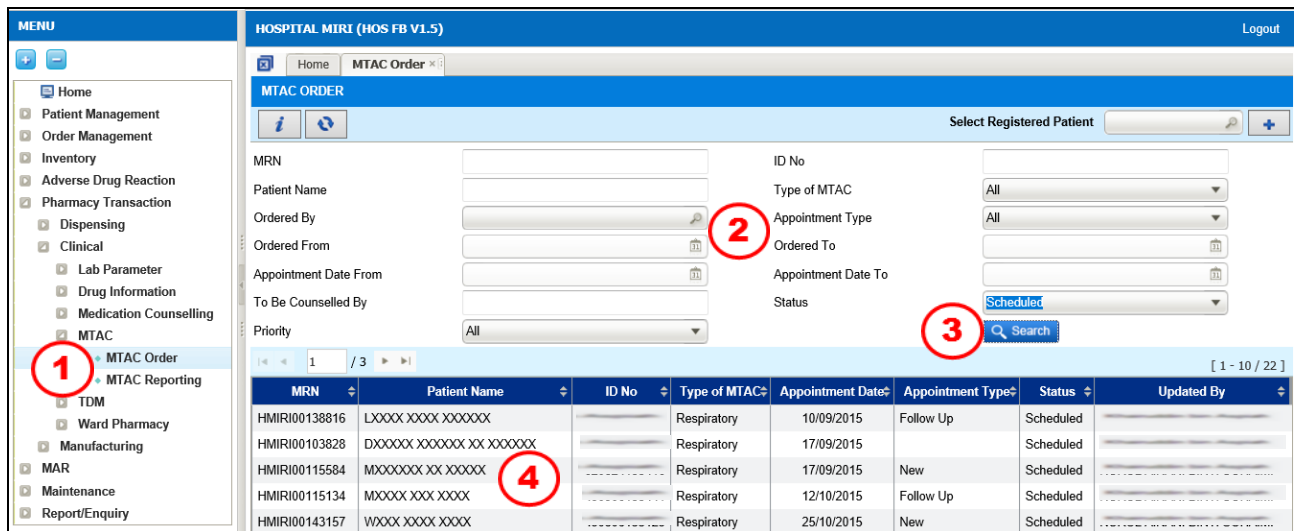


Figure 3.1.1-1 MTAC Order Listing Page

STEP 1

Click on 'Pharmacy Transaction' menu followed by 'Clinical' then 'MTAC' and 'MTAC Order' sub menu

STEP 2

Search existing patient record by :-

Field	Description	Remark
MRN	Patient Medical Record Number	Search option: Type the MRN either full or partial: Example: HPSF00001234 or "1234"
Patient Name	Patient Name	Allow to search by patient full name or partial
Ordered by	Ordered by	Able to filter and search by ordered by
Ordered from	Ordered from	Able to filter and search by ordered from
Appointment Date	Appointment Date	Able to filter and search by appointment date
To Be Counselling by	To Be Counselling by	Able to filter and search by to be counselling by
ID No	Identification Number	Allow to search by full or partial ID Number
Ordered to	Ordered to	Able to filter and search by ordered to
Appointment Type	<ul style="list-style-type: none"> - All - Follow Up - Follow Up Reschedule - New 	Able to filter and search by appointment type

		- New Reschedule	
Priority		- All - Urgent - Routine	Able to filter and search by priority
Type of MTAC		- All - Cardiac Rehab Program - Chronic Kidney Disease - Chronic Pain - Diabetes Mellitus - Dialysis - Gastrohepatology - Geriatric - Hemophilia - Heart Failure - Hepatitis - Methadone - Neurology - Osteoporosis - Psoriasis - Psychiatry - Renal Transplant - Respiratory - Retro Viral Disease - Rheumatology - Warfarin	Able to filter and search by type of MTAC order
Status		- All - Ordered - Scheduled - Cancelled - In Progress - Completed	Able to filter and search by status

Table 3.1.1-1

STEP 3

Click on the  button to search the patient

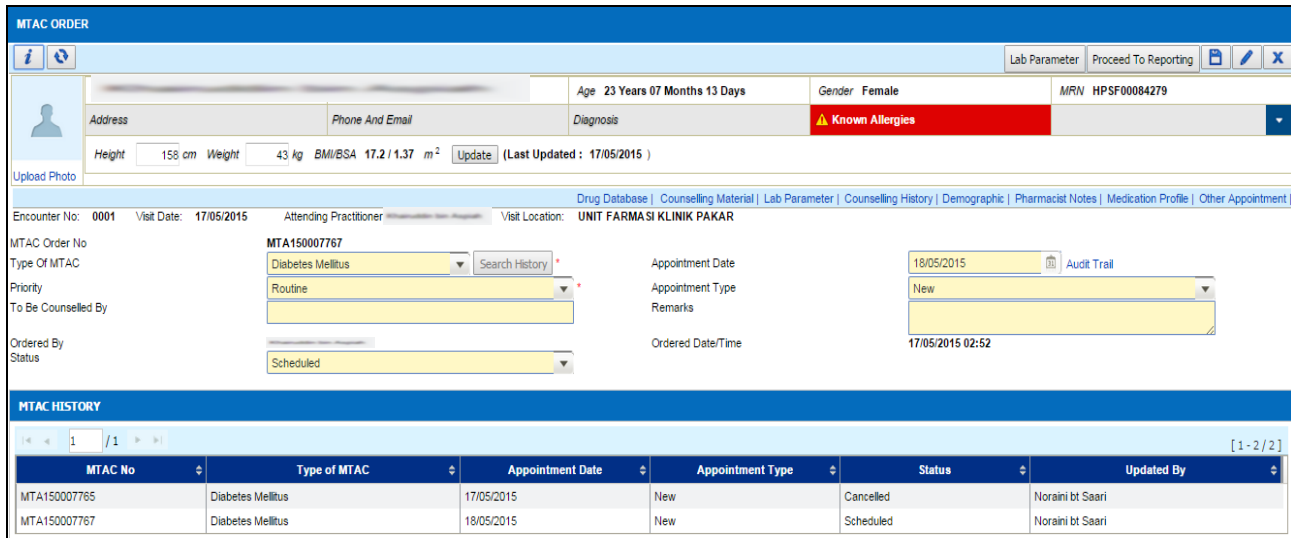
Note

Search result of current order patient list will be displayed:

- MRN
- Patient Name
- ID No
- Type of MTAC
- Appointment Date
- Appointment Type
- Status
- Updated By

STEP 4

Double click on the selected patient's name and Order record will be displayed



MTAC ORDER

Lab Parameter | Proceed To Reporting

Age: 23 Years 07 Months 13 Days | Gender: Female | MRN: HPSF00084279

Address: | Phone And Email: | Diagnosis: | Known Allergies:

Height: 158 cm | Weight: 43 kg | BMI/BSA: 17.2 / 1.37 m² | Update: (Last Updated: 17/05/2015)

Upload Photo

Encounter No: 0001 | Visit Date: 17/05/2015 | Attending Practitioner: | Visit Location: UNIT FARMASI KLINIK PAKAR

MTAC Order No: MTA150007767

Type Of MTAC: Diabetes Mellitus | Search History

Priority: Routine

To Be Counselling By:

Ordered By: | Status: Scheduled

Appointment Date: 18/05/2015 | Appointment Type: New | Remarks: | Ordered Date/Time: 17/05/2015 02:52

MTAC HISTORY

MTAC No	Type of MTAC	Appointment Date	Appointment Type	Status	Updated By
MTA150007765	Diabetes Mellitus	17/05/2015	New	Cancelled	Noraini bt Saari
MTA150007767	Diabetes Mellitus	18/05/2015	New	Scheduled	Noraini bt Saari

Figure 3.1.1-2 MTAC Order

Note

- Once click on the selected patient name, the summary of patient information will be displayed in the patient banner. The patient banner will be displayed at the specific screen which is required patient information. Below is the list of patient information:
 - Patient Name
 - Patient Address
 - Patient IC No
 - Patient Phone and Email
 - Patient Age
 - Patient Diagnosis
 - Patient Gender
 - Patient Allergy
 - Patient MRN
- Below options are provided for user to view the additional patient's information. Click on the hyperlink as below:
 - Counselling Material**
 - User able to download and use medication counselling material during the counselling session
 - Lab Parameter**
 - Patient's laboratory test results and standard parameter results for laboratory test
 - Counselling History**
 - Patient's previous medication counselling history records
 - MTAC History**
 - Patient's previous MTAC History records
 - Demographic**
 - Patient's demographic details
 - Pharmacist Notes**
 - Pharmacist notes according to type of service such as CP1, CP2, MTAC, TDM and etc

g) **Medication Profile**

- Patient's current medication and previous medication history records

h) **Other Appointments**

- Provides information if there are any other appointments recorded for the patient

- MTAC Order Details will be displayed as below:

- MTAC Order No – Auto generated by system
- Type of MTAC
- Priority
- To Be Counselling By
- Ordered By
- Status - Status of the order
- Appointment Date
- Appointment Type
- Remarks
- Ordered Date/Time

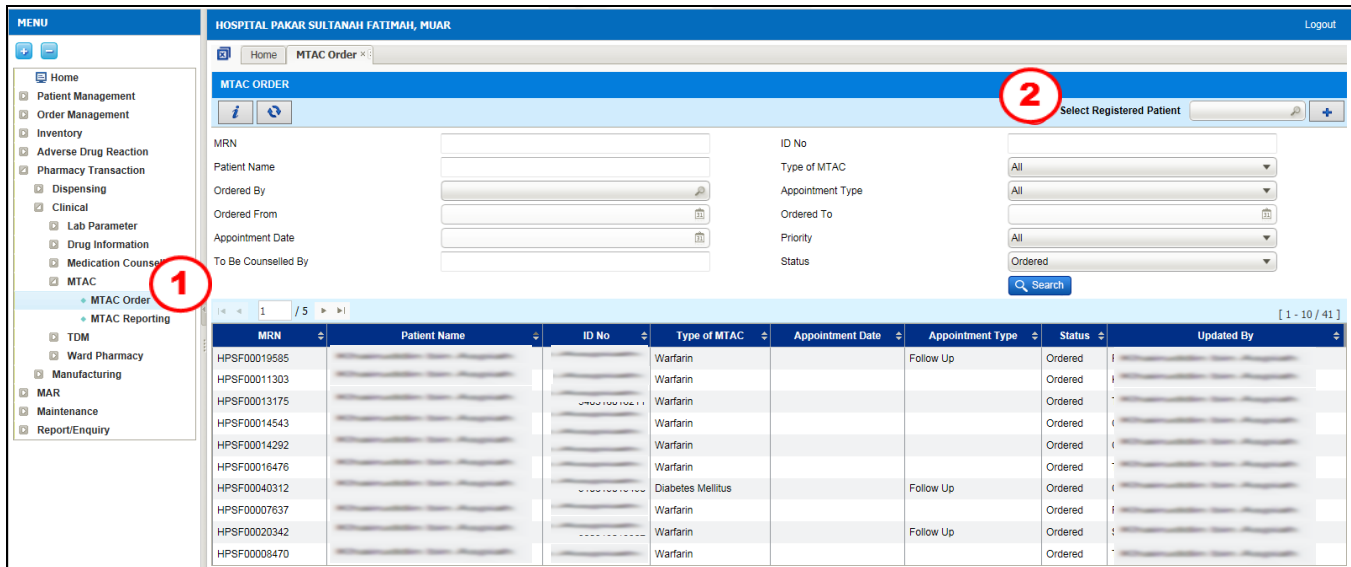
- Search result of MTAC History order list of the patient will be displayed:

- MTAC No
- Type of MTAC
- Appointment Date
- Appointment Type
- Status
- Updated By

- User able to edit and schedule MTAC Order. Status will be defaulted as Scheduled

3.1.2 Create New MTAC Order

This function allows user to create a new order for MTAC patients.



MRN	Patient Name	ID No	Type of MTAC	Appointment Date	Appointment Type	Status	Updated By
HPSF00019585			Warfarin		Follow Up	Ordered	
HPSF00011303			Warfarin			Ordered	
HPSF00013175			Warfarin			Ordered	
HPSF00014543			Warfarin			Ordered	
HPSF00014292			Warfarin			Ordered	
HPSF00016476			Warfarin			Ordered	
HPSF00040312			Diabetes Mellitus		Follow Up	Ordered	
HPSF00007637			Warfarin			Ordered	
HPSF00020342			Warfarin		Follow Up	Ordered	
HPSF00008470			Warfarin			Ordered	

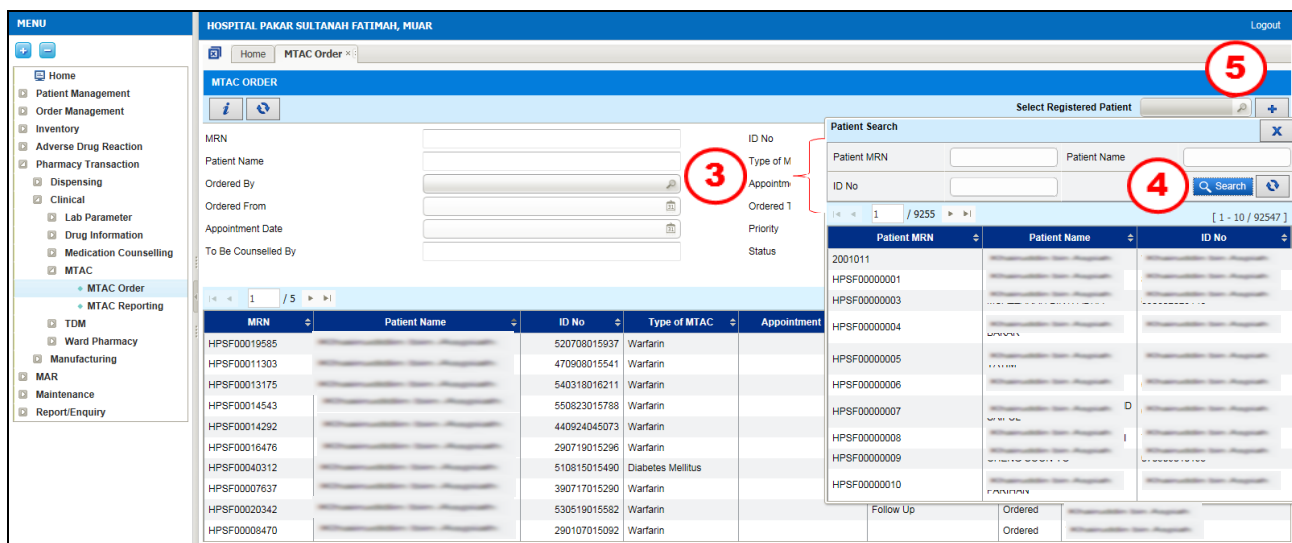
Figure 3.1.2-1 MTAC Order Listing Page

STEP 1

Click on 'Pharmacy Transaction' menu followed by 'Clinical' then 'MTAC' and 'MTAC Order' sub menu

STEP 2

Click on the  button to search for registered patient at the *Select Registered Patient*



Patient MRN	Patient Name	ID No
2001011		
HPSF000000001		
HPSF000000003		
HPSF000000004		
HPSF000000005		
HPSF000000006		
HPSF000000007		
HPSF000000008		
HPSF000000009		
HPSF000000010		

Figure 3.1.2-2 Patient Search

Note

- Search MRN screen will be displayed as per Figure Patient search screen will be displayed as shown in Figure 3.1.2-2
- On this screen, user will be able to search existing patient record by:
 - MRN
 - Patient Name
 - Ordered By
 - Ordered From
 - Appointment Date
 - To Be Counseled By
 - ID No
 - Type of MTAC
 - Appointment Type
 - Ordered To
 - Priority
 - Status
- User able to view the list of MTAC order at the listing page as per Figure 3.1.2-2
- If need to re-schedule the order again, click on the selected patient name and continue to proceed re-schedule process.

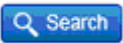
STEP 3

Search existing patient record as follow: -

Field	Description	Remark
Patient MRN	Patient Medical Record Number	Search option: Type the MRN either in full or partially: Example: HPSF00001234 or "1234"
Patient Name	Patient's name	Allow to search by full or partial patient name
ID No	Identification Number	Allow to search by full or partial ID Number

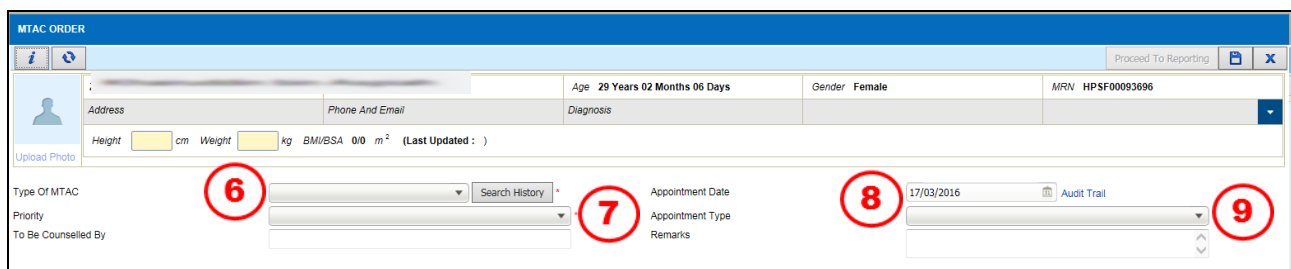
Table 3.1.2-1

STEP 4

Click on the  button to search for the patient and system will display all the registered patients

STEP 5

Click on  button to add a new MTAC order record as Figure 3.1.2-3



The screenshot shows the MTAC ORDER form with the following fields and callouts:

- 6**: Type Of MTAC dropdown menu
- 7**: Priority dropdown menu
- 8**: Appointment Date field (17/03/2016)
- 9**: Appointment Type dropdown menu

Other visible fields include: Address, Phone And Email, Diagnosis, Height, Weight, BMI/BSA, and MRN (HPSF00093696).

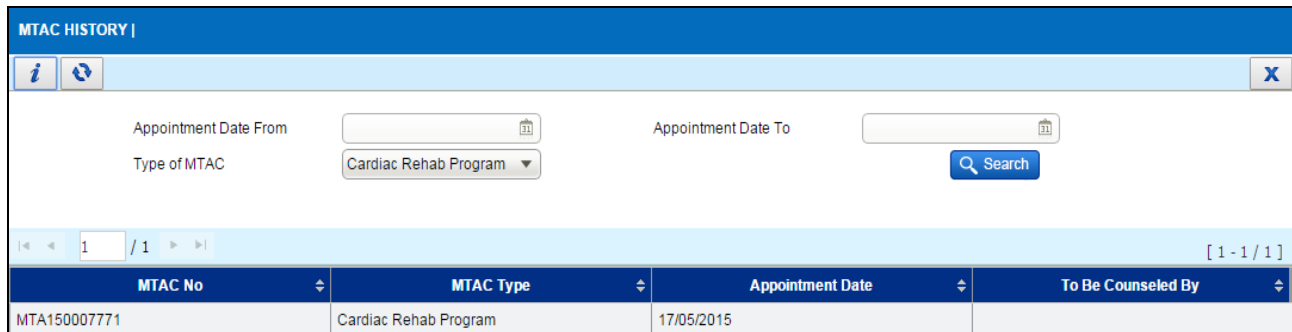
Figure 3.1.2-3 MTAC Order

STEP 6

Select **Type Of MTAC** from the drop down box

Note

- **Type of MTAC** listed depends on the facility's MTAC availability.
- Select **Type of MTAC** and click on the **Search History** button. System will display previous MTAC History details (according to the selected MTAC type) in the pop up window as shown in Figure 3.1.2-4.
- MTAC History will also be listed at the bottom of the 'MTAC Order' screen.



MTAC HISTORY

Appointment Date From: Appointment Date To:

Type of MTAC: Cardiac Rehab Program **Search**

1 / 1 [1 - 1 / 1]

MTAC No	MTAC Type	Appointment Date	To Be Counseled By
MTA150007771	Cardiac Rehab Program	17/05/2015	


Figure 3.1.2-4 MTAC History

STEP 7

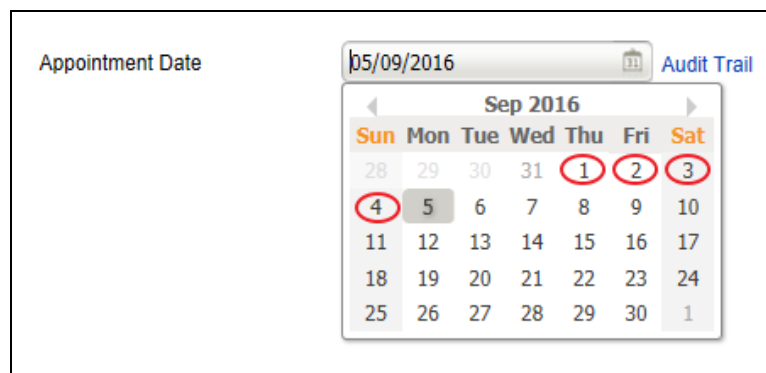
Select **Priority** as listed from the drop down box

- Routine
- Urgent

STEP 8

Click on the  button to select **Appointment Date**

Note



Appointment Date: 05/09/2016 **Audit Trail**

Sep 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

- Click on the **Audit Trail** hyperlink to view a list of changes/amendment on the same MTAC report if there is any.
- User is allow to select the date from 5 days back. For example today is **5/9/2016**, user can select **31 Aug, 1, 2, 3 and 4 Sept**.

STEP 9

Select **Appointment Type** as listed from the drop down box

- New
- New Reschedule
- Follow Up
- Follow Up Reschedule

Note

- User will be able to enter **To Be Counseled By** person name and **Remarks** if required.
- The **Status** of the order will be changed to 'Scheduled' if the **Appointment Date** is selected.
- Additional information will be displayed for the **Type of MTAC** 'Warfarin'.
- User can click on the **Proceed To Reporting** button to save the MTAC Order and system will proceed to 'MTAC Reporting' window.
- Assessment section is automatically copied from the previous/latest visit.
- 'Specific details' will be automatically copied from the latest record only for the same **Type of MTAC**.

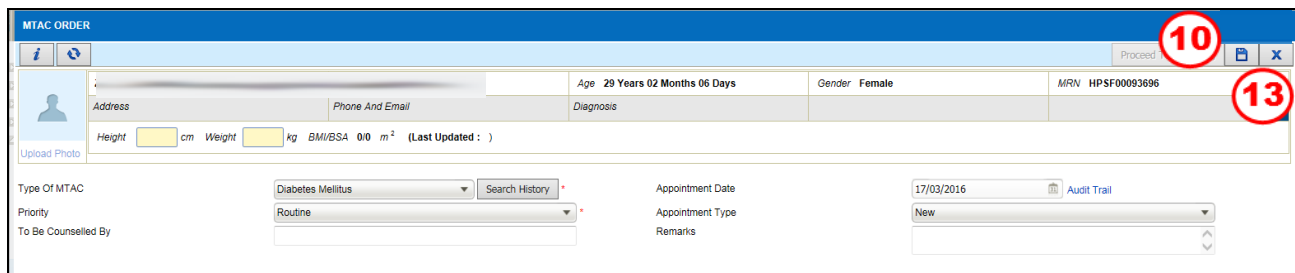


Figure 3.1.2-5 MTAC Order

STEP 10

Click on the  button to save the record

STEP 11

Click on the  button to confirm saving of order

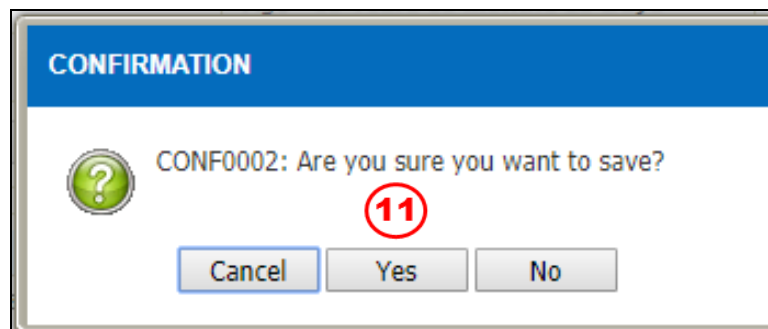



Figure 3.1.2-6 Confirmation Alert Message

STEP 12

Click on the  button to confirm record

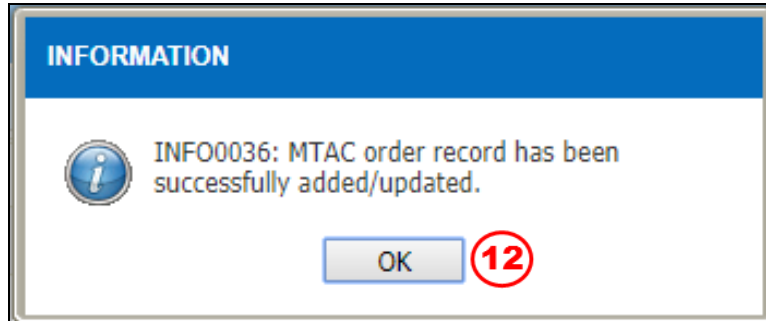



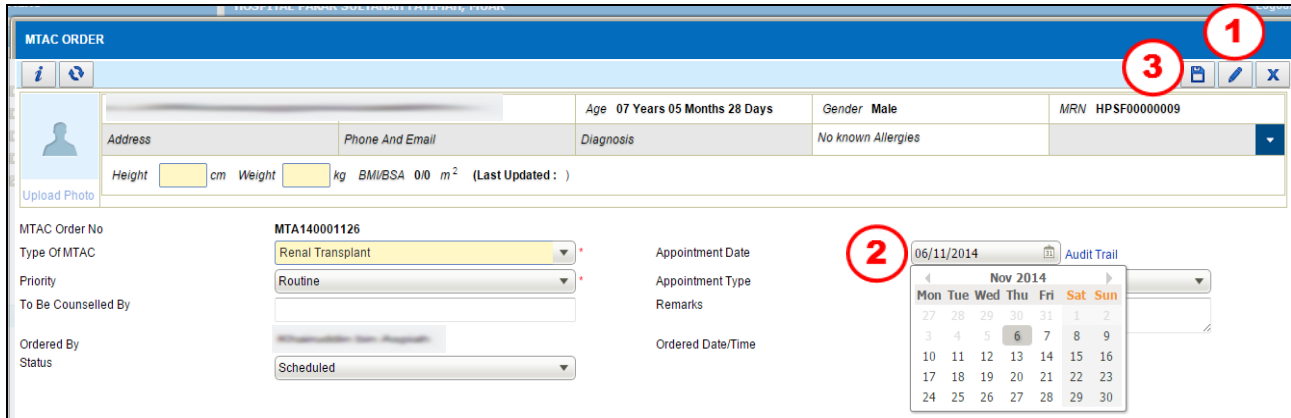
Figure 3.1.2-7 Information Alert Message

STEP 13

Click on the  button to close record as shown in Figure 3.1.2-5

3.1.3 Reschedule MTAC Order

This function is used to reschedule MTAC appointment date



MTAC ORDER

Age: 07 Years 05 Months 28 Days | Gender: Male | MRN: HPSF00000009

Address: | Phone And Email: | Diagnosis: No known Allergies

Height: cm | Weight: kg | BMI/BSA: 0/0 m² (Last Updated:)

MTAC Order No: MTA140001126

Type Of MTAC: Renal Transplant

Priority: Routine

To Be Counselling By:

Ordered By:

Status: Scheduled

Appointment Date: 06/11/2014

Appointment Type:

Remarks:

Ordered Date/Time:

[Audit Trail](#)

Figure 3.1.3-1 MTAC Order


Note

Repeat **STEP 1** to **4** as in section [3.1.1 View Existing Order](#) before performing reschedule MTAC order for patient.

STEP 1

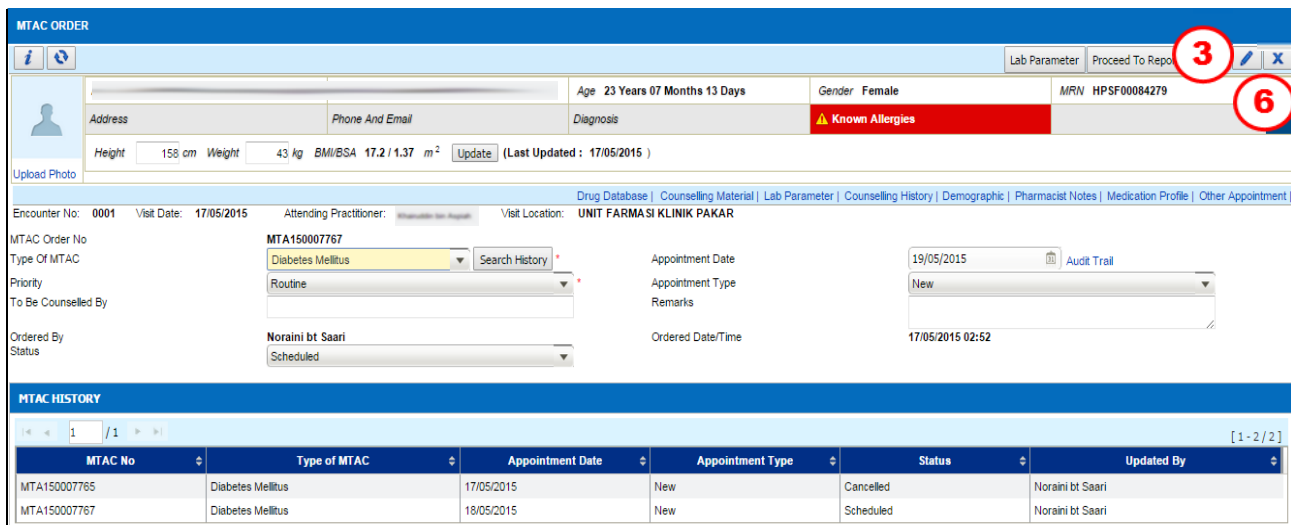
Click on the  button to edit MTAC order

STEP 2

Click on the  button to select a different **Appointment Date**

Note

- User have to change the **Appointment Type** to **New Reschedule** or **Follow Up Reschedule** after selecting the new **Appointment Date**.
- User will be able to edit **Appointment Date** at 'MTAC Order' screen only before the MTAC Reporting is saved.
- Click on the [Audit Trail](#) hyperlink to view a list of changes/amendment on the same MTAC report if there is any.



MTAC ORDER

Age: 23 Years 07 Months 13 Days | Gender: Female | MRN: HPSF00084279

Address: | Phone And Email: | Diagnosis: Known Allergies

Height: 158 cm | Weight: 43 kg | BMI/BSA: 17.2 / 1.37 m² | Update (Last Updated: 17/05/2015)

MTAC Order No: MTA150007767

Type Of MTAC: Diabetes Mellitus

Priority: Routine

To Be Counselling By:

Ordered By: Noraini bt Saari

Status: Scheduled

Appointment Date: 19/05/2015

Appointment Type: New

Remarks:

Ordered Date/Time: 17/05/2015 02:52

[Audit Trail](#)

MTAC HISTORY

MTAC No	Type of MTAC	Appointment Date	Appointment Type	Status	Updated By
MTA150007765	Diabetes Mellitus	17/05/2015	New	Cancelled	Noraini bt Saari
MTA150007767	Diabetes Mellitus	18/05/2015	New	Scheduled	Noraini bt Saari

Figure 3.1.3-2 MTAC Order

STEP 3

Click on the  button to save the record

STEP 4

Click on the  button to confirm saving of order

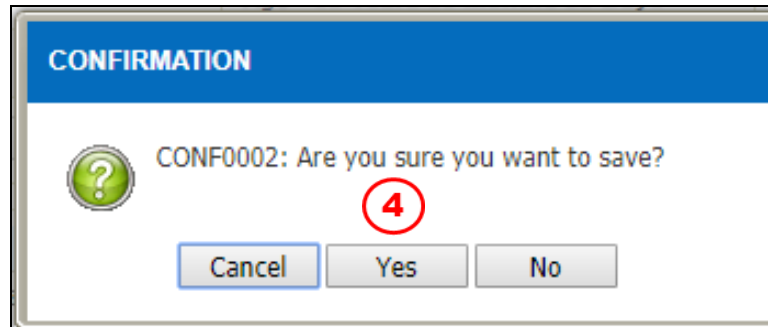



Figure 3.1.3-3 Confirmation alert message

STEP 5

Click on the  button to confirm record

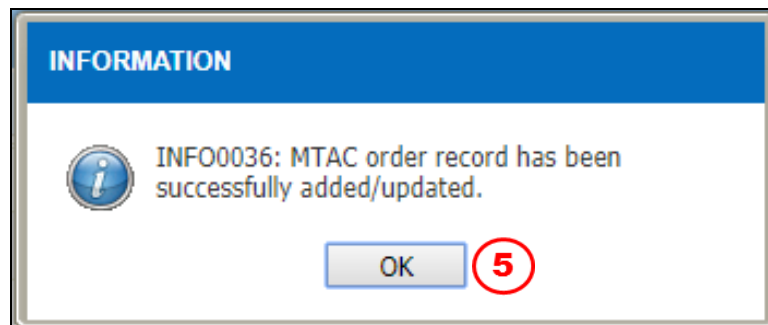



Figure 3.1.3-4 Information alert message

STEP 6

Click on the  button to close record as shown in Figure 3.1.3-2

3.1.4 Cancel MTAC Order

This function is used to cancel an existing MTAC order

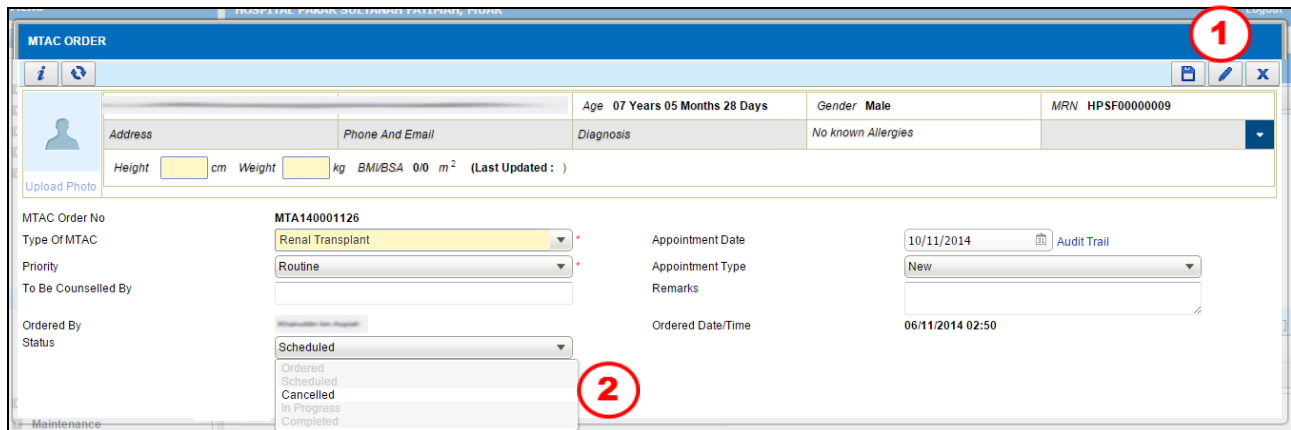


Figure 3.1.4-1 MTAC Order

Note

Repeat **STEP 1** to **4** as in section [3.1.1 View Existing Order](#) to cancel an existing MTAC order for patient.

STEP 1

Click on the  button to edit MTAC order

STEP 2

Select **Status** as 'Cancelled' from the drop down box

Note

- User will be able to cancel order at 'MTAC order' screen only before the MTAC Reporting is saved.
- Only order with **Status** 'Ordered' and 'Scheduled' can be cancelled.

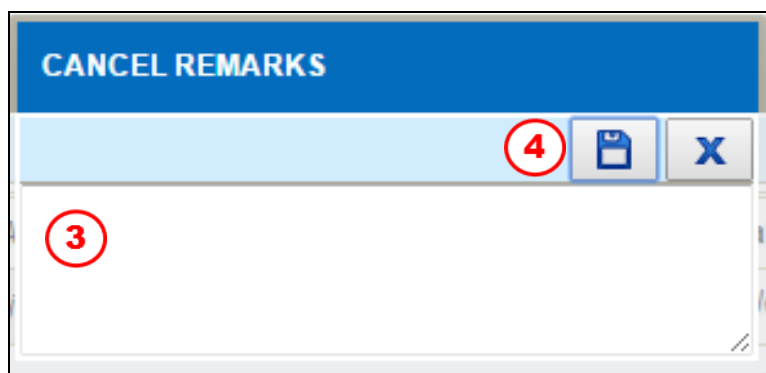


Figure 3.1.4-2 Cancel Remarks

STEP 3

Enter **Cancel Remarks** and save the record

STEP 4

Click on the  button to save record

STEP 5

Click on the  button to confirm saving of order

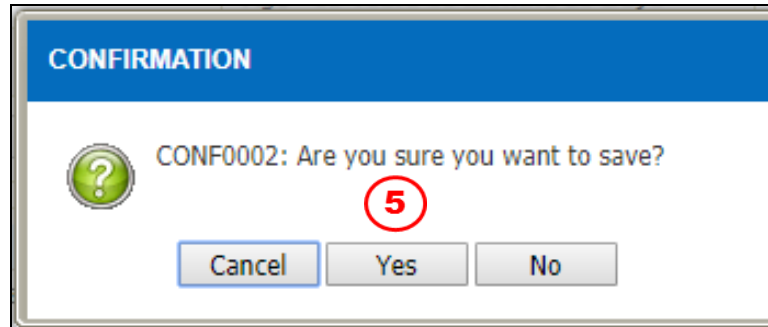



Figure 3.1.4-3 Confirmation Alert Message

STEP 6

Click on the  button to confirm record

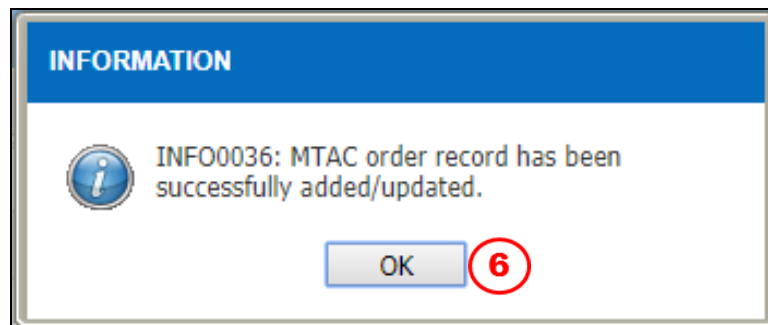


Figure 3.1.4-4 Information Alert Message

3.2 MTAC Reporting

This function is used to search and view existing MTAC reporting or record new MTAC reporting

3.2.1 Create New MTAC Reporting With No Specific Details

This function allow user to record new MTAC reporting with no specific details for MTAC patient

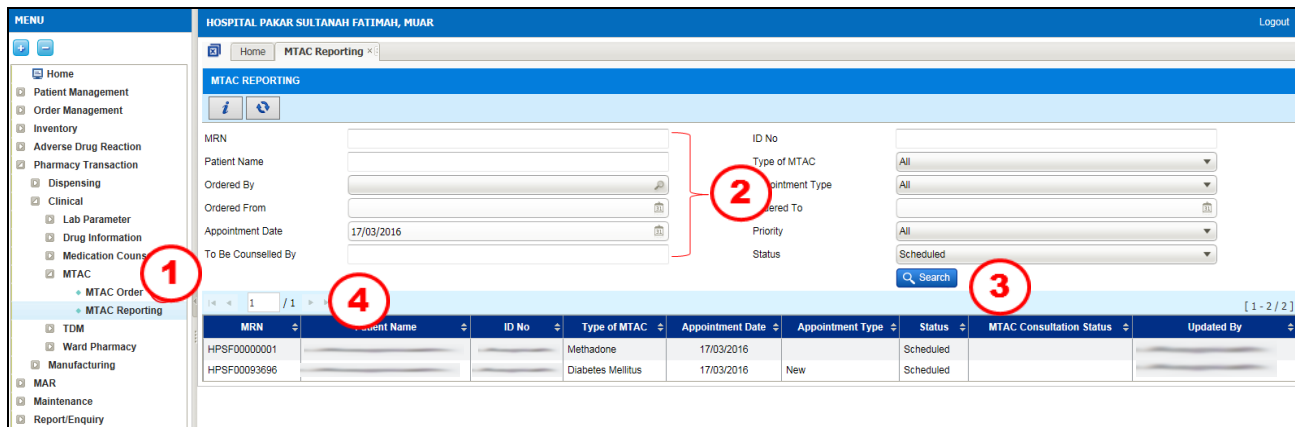


Figure 3.2.1-1 MTAC Reporting Listing Page

STEP 1

Click on 'Pharmacy Transaction' menu followed by 'Clinical' then 'MTAC' and 'MTAC Reporting' sub menu

STEP 2

Search for existing patient record by below criteria:

Field	Description	Remark
MRN	Patient Medical Record Number	Search option: • Type the MRN either full or partial: Example: HPSF00001234 or "1234"
Patient Name	Patient Name	Allow to search by patient full name or partial
Ordered by	Ordered by	Able to filter and search by ordered by
Ordered from	Ordered from	Able to filter and search by ordered from
Appointment Date	Appointment Date	Able to filter and search by appointment date
To Be Counseled by	To Be Counseled by	Able to filter and search by to be counseled by

ID No	Identification Number	Allow to search by full or partial ID Number
Type of MTAC	<ul style="list-style-type: none"> - All - Cardiac Rehab Program - Chronic Kidney Disease - Chronic Pain - Diabetes Mellitus - Dialysis - Gastrohepatology - Geriatric - Hemophilia - Heart Failure - Hepatitis - Methadone - Neurology - Osteoporosis - Psoriasis - Psychiatry - Renal Transplant - Respiratory - Retro Viral Disease - Rheumatology - Warfarin 	Able to filter and search by type of MTAC order
Appointment Type	<ul style="list-style-type: none"> - All - New - New Reschedule - Follow Up - Follow Up Reschedule 	Able to filter and search by appointment type
Ordered to	Ordered to	Able to filter and search by ordered to
Priority	<ul style="list-style-type: none"> - All - Urgent - Routine 	Able to filter and search by priority
Status	<ul style="list-style-type: none"> - All - Scheduled - In Progress - Completed 	Able to filter and search by status

Table 3.2.1-1

STEP 3

Click on the  button to search the patient

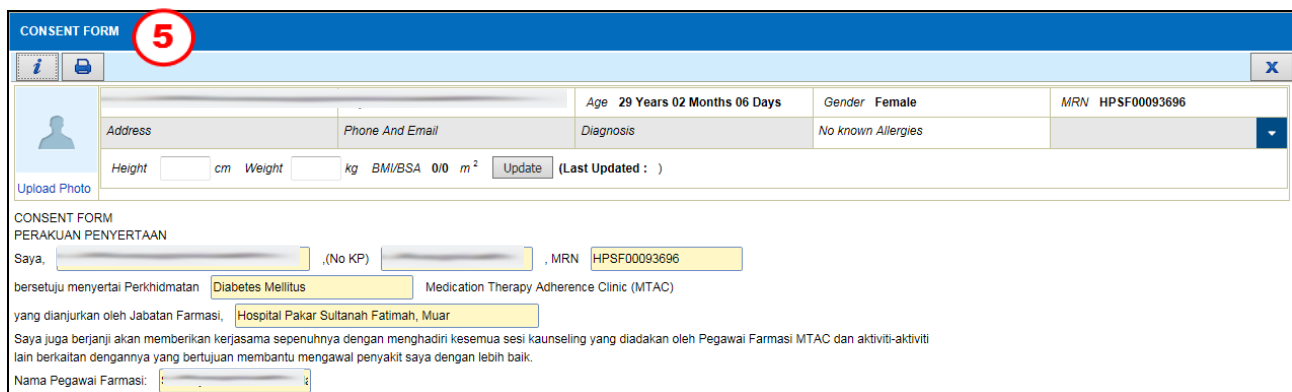
Note

Search results of current order patient list will display:

- MRN
- ID No
- Patient Name
- Type of MTAC
- Appointment Date
- Appointment Type
- Status
- MTAC Consultation Status
- Updated By

STEP 4

Double click on the selected patient's record and the 'Consent Form' window will be displayed as shown in Figure 3.2.1-2



CONSENT FORM

Age 29 Years 02 Months 06 Days Gender Female MRN HPSF00093696

Address Phone And Email Diagnosis No known Allergies

Height cm Weight kg BMI/BSA 0/0 m² Update (Last Updated :)

Upload Photo

CONSENT FORM
PERAKUAN PENYERTAAN

Saya, (No KP) , MRN HPSF00093696

bersetuju menyertai Perkhidmatan Diabetes Mellitus Medication Therapy Adherence Clinic (MTAC)


yang dianjurkan oleh Jabatan Farmasi, Hospital Pakar Sultanah Fatimah, Muar

Saya juga berjanji akan memberikan kerjasama sepenuhnya dengan menghadiri kesemua sesi kaunseling yang diadakan oleh Pegawai Farmasi MTAC dan aktiviti-aktiviti lain berkaitan dengannya yang bertujuan membantu mengawal penyakit saya dengan lebih baik.


Nama Pegawai Farmasi:

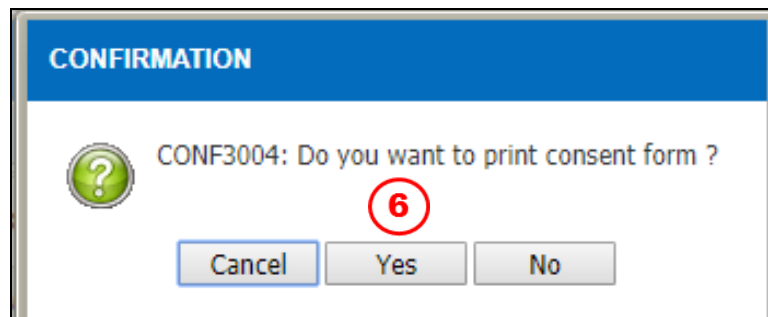
Figure 3.2.1-2 Consent Form

STEP 5

Click on the  button to print the consent form

STEP 6

Click on the  to confirm printing Consent form and new screen will be displayed for user to print Consent Form as per Figure 3.2.1-4



CONFIRMATION

CONF3004: Do you want to print consent form ?

Cancel Yes No



Figure 3.2.1-3 Print Report Alert Message




MEDICATION THERAPY ADHERENCE CLINIC (MTAC)

Jabatan Farmasi, Hospital Pakar Sultanah Fatimah, Muar

PERAKUAN PENYERTAAN


S  A, (No KP  MRN HPSF00186863 bersetuju menyertai Perkhidmatan DIABETES MELLITUS Medication Therapy Adherence Clinic (MTAC) oleh Jabatan Farmasi, HOSPITAL PAKAR SULTANAH FATIMAH, MUAR. Saya juga berjanji akan memberikan kerjasama sepenuhnya dengan menghadiri kesemua sesi kaunseling yang diadakan oleh Pegawai Farmasi MTAC dan aktiviti-aktiviti lain berkaitan dengannya yang bertujuan membantu mengawal penyakit saya dengan lebih baik.

.....
Tandatangan

Nama pesakit: 

Tarikh: 06/09/2017

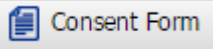
.....
Tandatangan

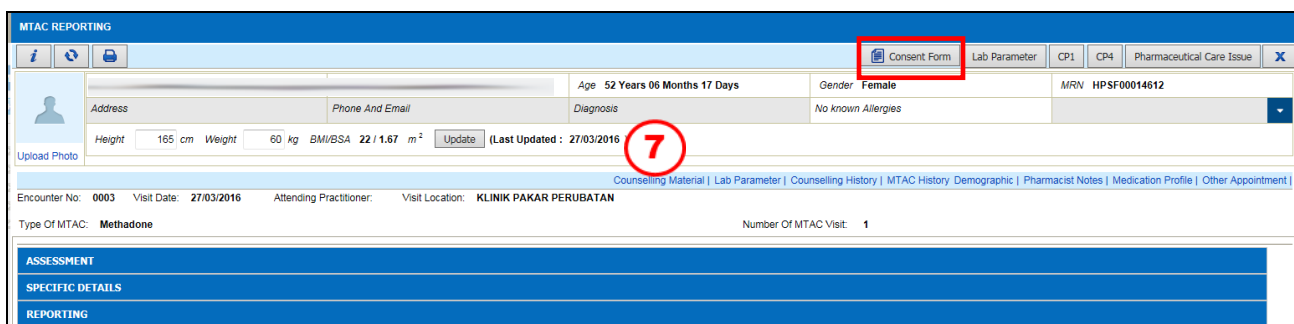
Nama Peg. Farmasi: 

Tarikh: 06/09/2017

Figure 3.2.1-4 Print Consent Form

Note

- Consent form details will automatically display:
 - Patient name
 - ID No
 - MRN
 - Type of MTAC
 - Facility Name
- Consent form is mandatory to be printed for new visit of MTAC appointment only. For subsequent visits, user can print the consent form by click on the  button at the 'MTAC Reporting' screen



The screenshot displays the 'MTAC REPORTING' interface. At the top, there is a navigation bar with tabs: 'Consent Form' (highlighted with a red box), 'Lab Parameter', 'CP1', 'CP4', and 'Pharmaceutical Care Issue'. Below this, patient details are shown, including Age (52 Years 06 Months 17 Days), Gender (Female), and MRN (HPSF00014612). A red circle with the number '7' is placed over the 'Update' button next to the patient's height and weight information. The bottom section of the screen has a blue header with tabs: 'ASSESSMENT', 'SPECIFIC DETAILS', and 'REPORTING'.

Figure 3.2.1-5 MTAC Reporting Screen

Note

- Type of MTAC
- No of MTAC Visit
- Assessment Tab
- Reporting Tab

Assessment

- Click on the Assessment tab
- There are 4 sections under the Assessment tab as below:
 - Social History
 - Family History
 - Medical History
 - Past Medication History

Social History

STEP 7

Enter **Estimated Dry Body Weight in Kg**

STEP 8

Select on **Smoking** radio button

- Yes
- No
- Ex-smoker

Note

Sticks/Day and **for** fields will be enabled only if user select Yes and Ex-smoker radio button

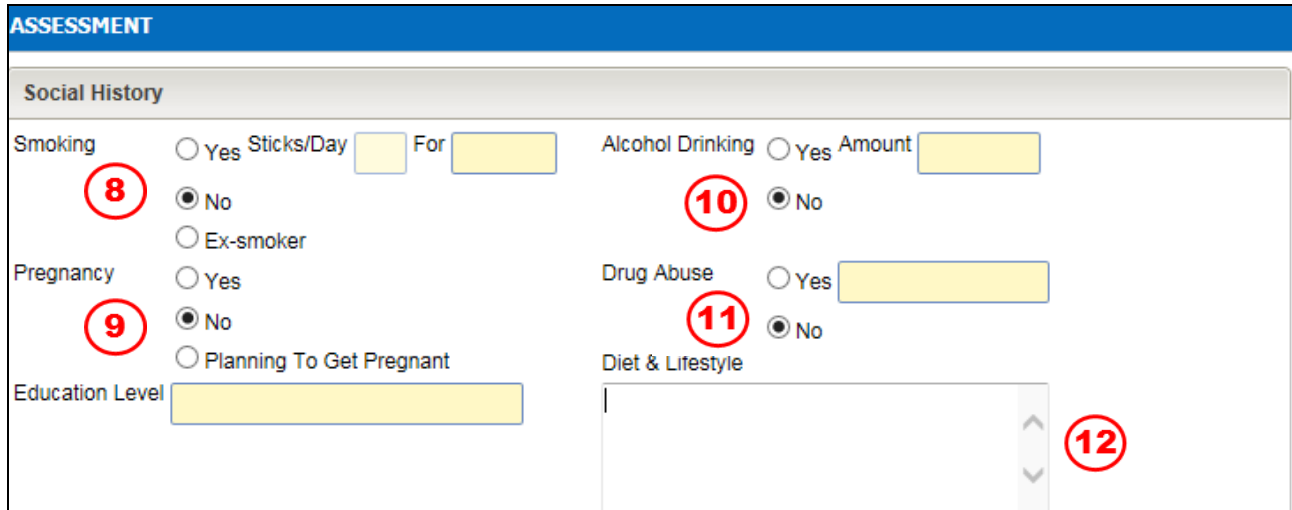


Figure 3.2.1-6 MTAC Reporting – Assessment on Social History

STEP 9

Select on **Pregnancy** radio button

- Yes
- No
- Planning to Get Pregnant

STEP 10

Select on **Alcohol Drinking** radio button

- Yes
- No

Note

Amount field will be enabled if user select 'Yes' radio button

STEP 11

Select **Drug Abuse** radio button

- Yes
- No

Note

Blank field will be enabled if user select 'Yes' radio button

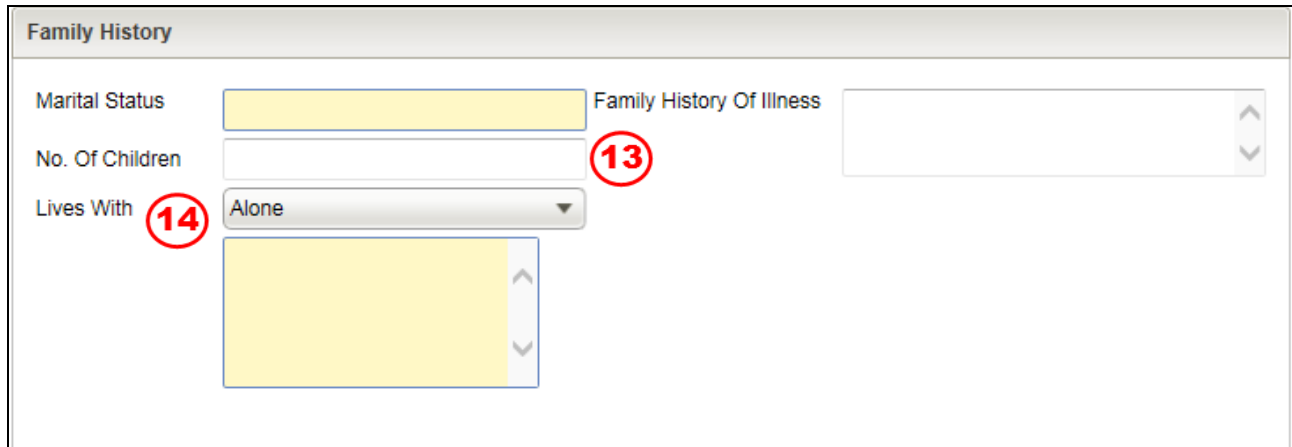
STEP 12

Enter ***Diet & Lifestyle***

Note

- ***Pregnancy*** field will only be available for married female
- ***Education Level*** and ***Marital Status*** information will be retrieved from Patient's Demographic

Family History



The screenshot shows a 'Family History' form with the following fields:

- Marital Status: A text input field.
- No. Of Children: A text input field, highlighted with a red circle and the number 13.
- Lives With: A dropdown menu showing 'Alone', highlighted with a red circle and the number 14.
- Family History Of Illness: A text input field.

Figure 3.2.1-7 MTAC Reporting – Assessment on Family History

STEP 13

Enter **No. Of Children**

STEP 14

Select **Lives with** from the drop down box

- Alone
- Family Members
- Nursing Home
- Others

Note

- Blank fields will be enabled if user select 'Others' from the drop down box
- Enter **Family History of Illness** if available

Medical History

STEP 15

Select **Comorbidity** from the check box

- Hypertension
- Diabetes Mellitus
- Tuberculosis
- AF
- Asthma
- Hepatitis B
- Hepatitis C
- Heart Failure
- ESRD
- COPD
- RVD
- Other

Note

Blank fields will be enabled if user select 'Other' check box

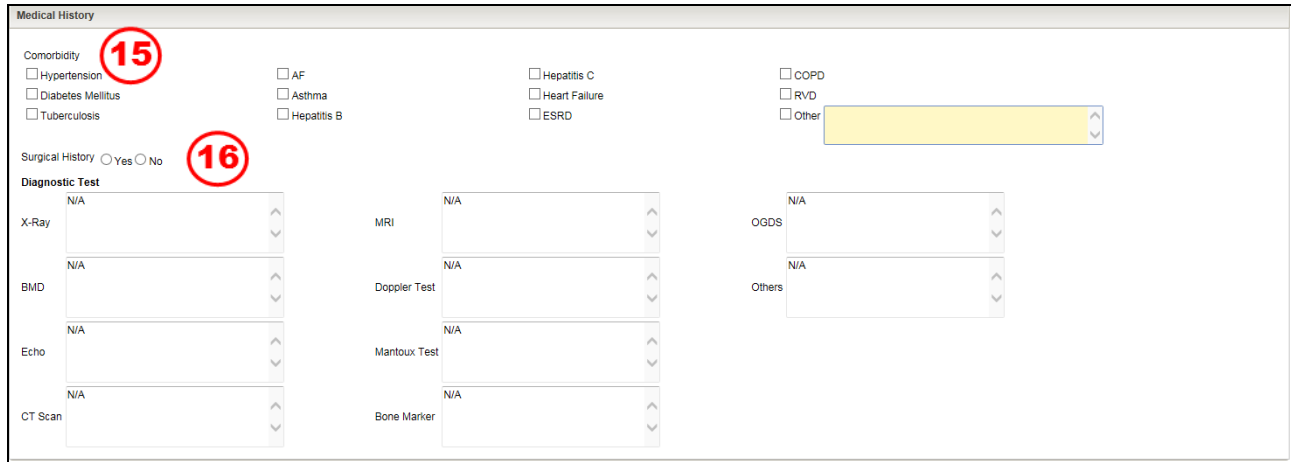


Figure 3.2.1-8 MTAC Reporting – Assessment on Medical History

STEP 16

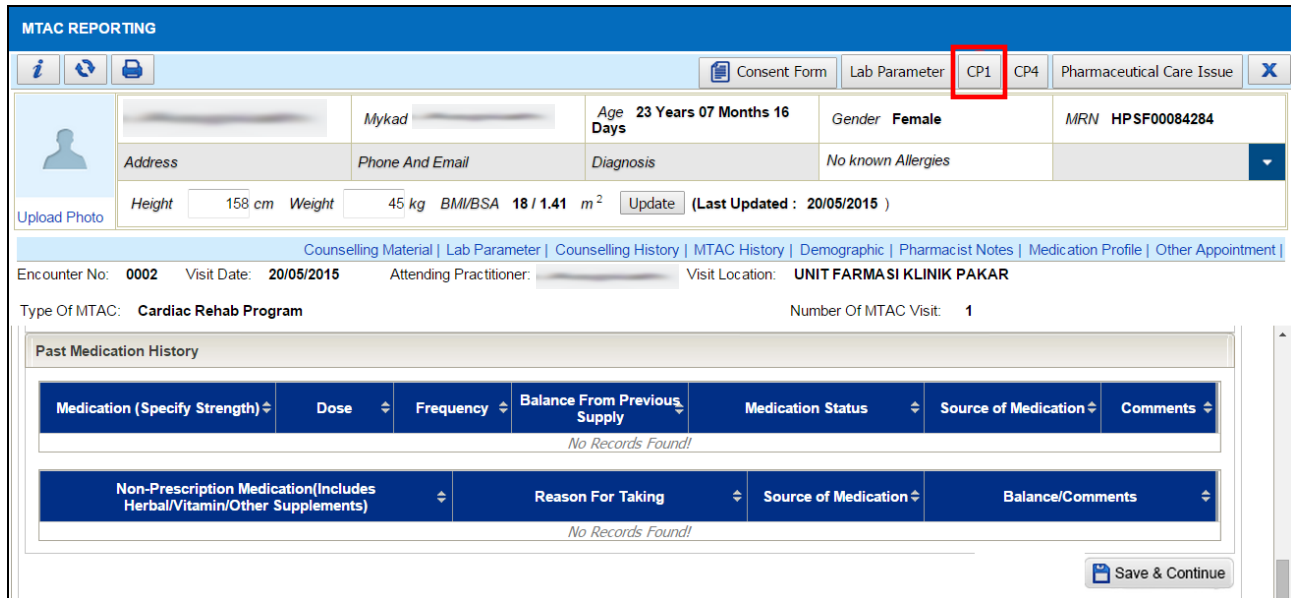
Select **Surgical History** radio button

- Yes
- No

Note

- User can enter Diagnosis Test as below:

- a) **X-Ray**
- b) **BMD**
- c) **Echo**
- d) **CT Scan**
- e) **MRI**
- f) **Doppler Test**
- g) **Mantoux Test**
- h) **Bone Marker**
- i) **OGDS**
- j) **Others**



MTAC REPORTING

Consent Form | Lab Parameter | **CP1** | CP4 | Pharmaceutical Care Issue

Mykad: [Redacted] Age: 23 Years 07 Months 16 Days Gender: Female MRN: HPSF00084284

Address: [Redacted] Phone And Email: [Redacted] Diagnosis: [Redacted] No known Allergies

Height: 158 cm Weight: 45 kg BMI/BSA: 18 / 1.41 m² Update (Last Updated: 20/05/2015)

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

Encounter No: 0002 Visit Date: 20/05/2015 Attending Practitioner: [Redacted] Visit Location: UNIT FARMASI KLINIK PAKAR

Type Of MTAC: Cardiac Rehab Program Number Of MTAC Visit: 1

Past Medication History

Medication (Specify Strength)	Dose	Frequency	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

Figure 3.2.1-9 MTAC Reporting – Assessment on Past Medication History

Note

Click on the **CP1** button to add 'Past Medication History' as shown in Figure 3.2.1-9. Further details in Section 3.2.2 Other Tabs

STEP 17

Click on the **Save & Continue** button as shown in Figure 3.2.1-10 to save assessment and continue with reporting section



Past Medication History

Medication (Specify Strength)	Dose	Frequency	Balance From Previous Supply	Medication Status	Source of Medication	Comments
No Records Found!						

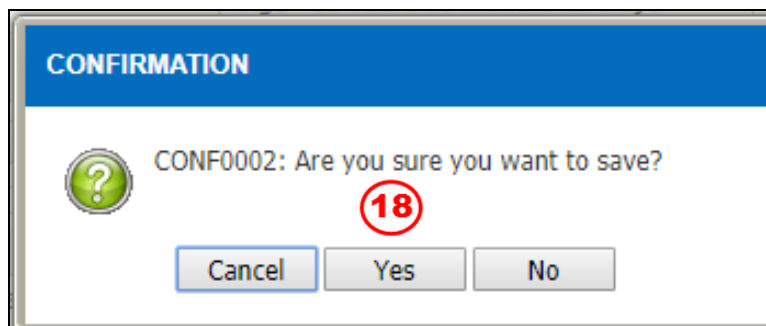
Non-Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Reason For Taking	Source of Medication	Balance/Comments
No Records Found!			

17 Save & Continue

Figure 3.2.1-10 MTAC Reporting – Assessment Past Medication History

STEP 18

Click on the **Yes** button to confirm



CONFIRMATION

CONF0002: Are you sure you want to save?

18

Cancel Yes No

Figure 3.2.1-11 Confirmation Alert Message

STEP 19

Click on the  button to confirm record

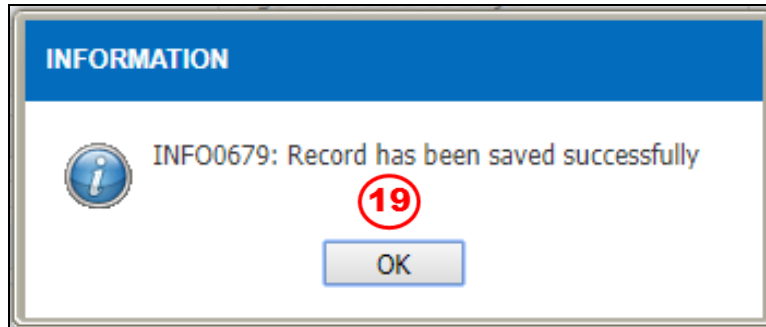
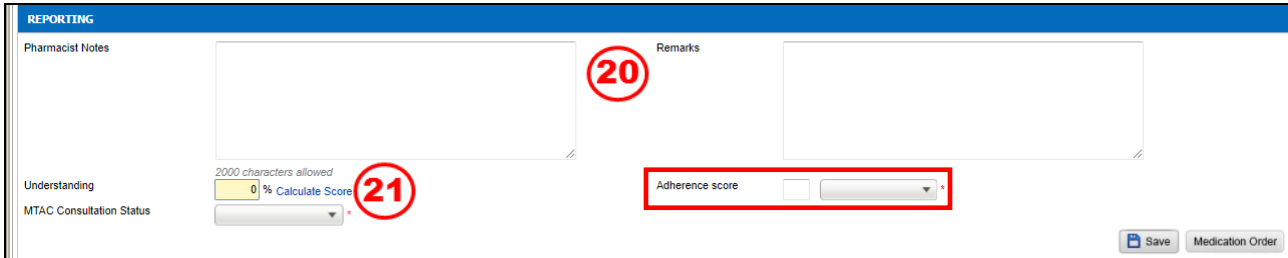


Figure 3.2.1-12 Information Alert Message

Note

- User will be able to close the record at reporting screen or continue with the reporting section.
- Click on the **Reporting** row (blue color) once and scroll down to continue with the reporting process.
- “Recommended Lab Test field” was removed and rearranged the Pharmacist Note and Remarks field.
- ‘Compliance Score’ was renamed to “Adherence Score”.



The image shows the 'REPORTING' screen. It has a blue header with the word 'REPORTING'. Below the header, there are two main text areas: 'Pharmacist Notes' on the left and 'Remarks' on the right. A red circle with the number '20' is placed over the 'Remarks' text area. Below the 'Pharmacist Notes' area, there is a '2000 characters allowed' label and a 'Calculate Score' button. A red circle with the number '21' is placed over the 'Calculate Score' button. Below the 'Remarks' area, there is an 'Adherence score' label and a dropdown menu. A red rectangle is drawn around the 'Adherence score' label and the dropdown menu. At the bottom right, there are 'Save' and 'Medication Order' buttons.

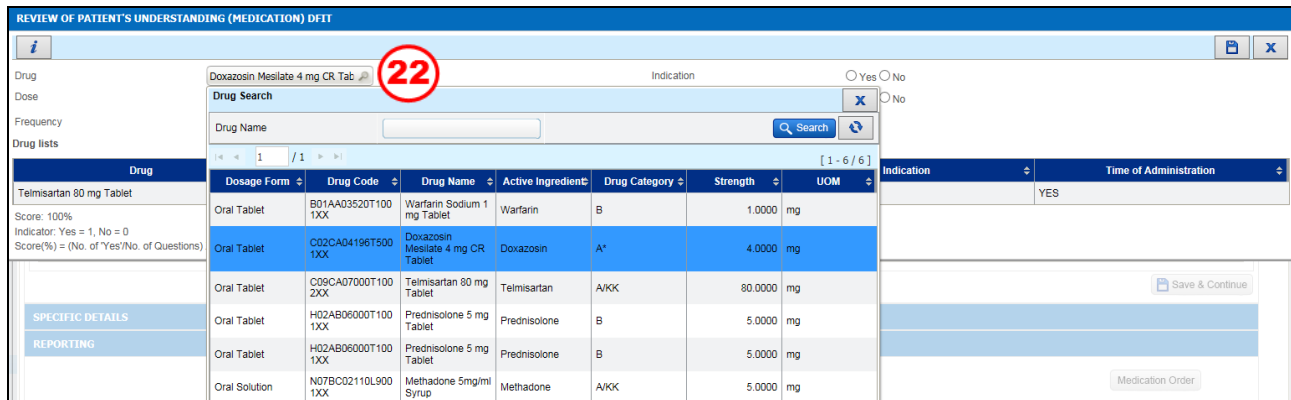
Figure 3.2.1-13 MTAC Reporting

STEP 20

Enter the **Pharmacist Notes** and **Remarks** if available

STEP 21

Click on the [Calculate Score](#) hyperlink for **Understanding** and the ‘**Review of Patient’s Understanding (Medication) DFIT**’ will be displayed as shown in Figure 3.2.1-14



Drug	Dosage Form	Drug Code	Drug Name	Active Ingredient	Drug Category	Strength	UOM	Indication	Time of Administration
Telmisartan 80 mg Tablet	Oral Tablet	B01AA03520T100 1XX	Warfarin Sodium 1 mg Tablet	Warfarin	B	1.0000 mg			YES
	Oral Tablet	C02CA04196T500 1XX	Doxazosin Mesilate 4 mg CR Tablet	Doxazosin	A*	4.0000 mg			
	Oral Tablet	C09CA07000T100 2XX	Telmisartan 80 mg Tablet	Telmisartan	A/KK	80.0000 mg			
	Oral Tablet	H02AB06000T100 1XX	Prednisolone 5 mg Tablet	Prednisolone	B	5.0000 mg			
	Oral Tablet	H02AB06000T100 1XX	Prednisolone 5 mg Tablet	Prednisolone	B	5.0000 mg			
	Oral Solution	N07BC02110L900 1XX	Methadone 5mg/ml Syrup	Methadone	A/KK	5.0000 mg			

Figure 3.2.1-14 Review of Patient's Understanding (Medication) DFIT


STEP 22

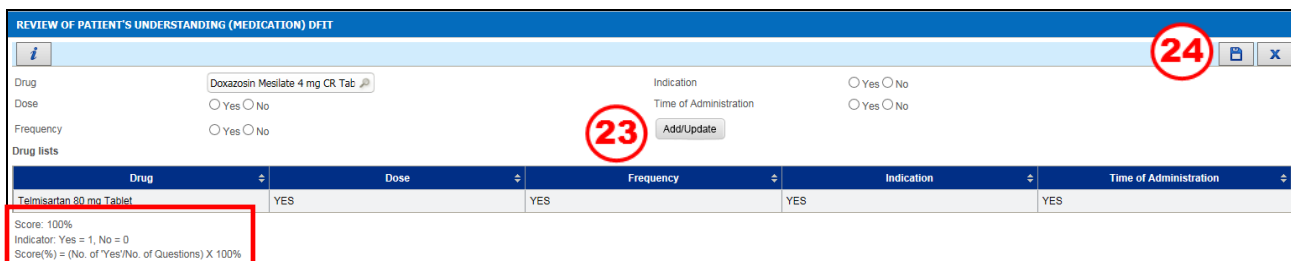
Select **Drug** by clicking on the  button

Note

- Select **Dose, Frequency, Indication and Time of Administration** from the radio button:
 - Yes
 - No
- Score will be automatically calculated and displayed.

STEP 23


Click on the  button to add and update at drug list

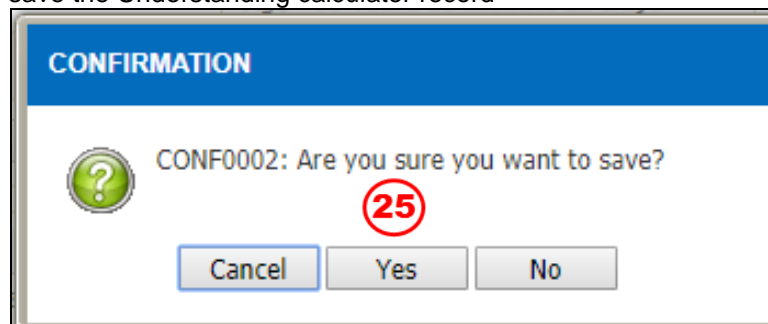


Drug	Dose	Frequency	Indication	Time of Administration
Telmisartan 80 mg Tablet	YES	YES	YES	YES

Figure 3.2.1-15 Review of Patient's Understanding (Medication) DFIT

STEP 24

Click on the  button to save the Understanding calculator record



CONFIRMATION

CONF0002: Are you sure you want to save?

Cancel Yes No

Figure 3.2.1-16 Confirmation alert message

STEP 25

Click on the  button to confirm save record

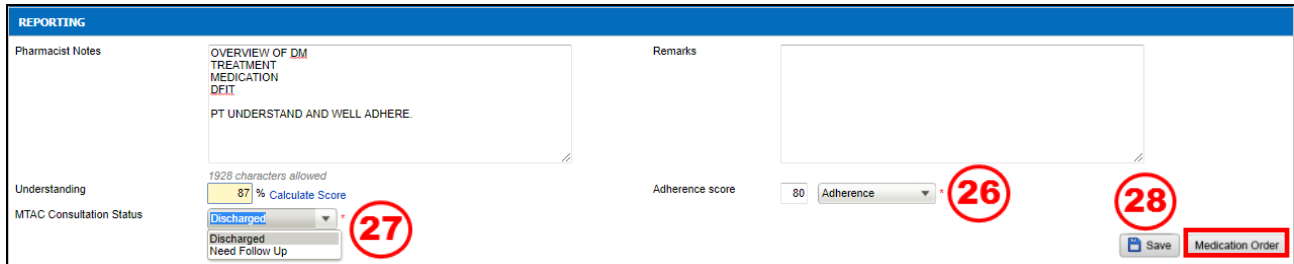


Figure 3.2.1-17 MTAC Reporting - Reporting

STEP 26

Enter the Adherence Score and select the status

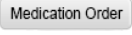
- Adherence
- Non Adherence

STEP 27


Select **MTAC Consultation Status** from the drop down box

- Discharged
- Need Follow Up

Note

- Medication Order button reallocate at the bottom of the screen.
- Click on the  button to view medication order screen and perform MTAC medication order if necessary.

STEP 28

Click on the  button as shown in Figure 3.2.1-17

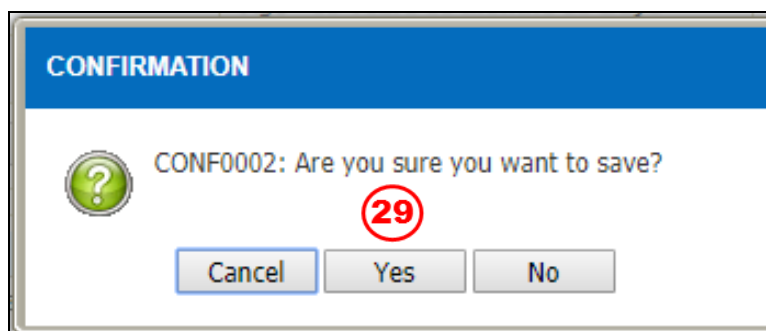


Figure 3.2.1-18 Confirmation Alert Message

STEP 29

Click on the  button to confirm save record

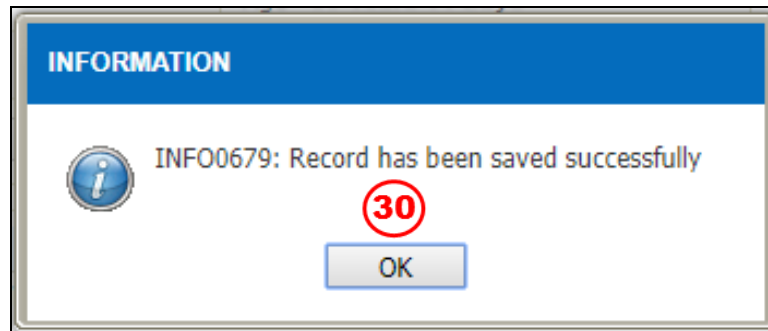
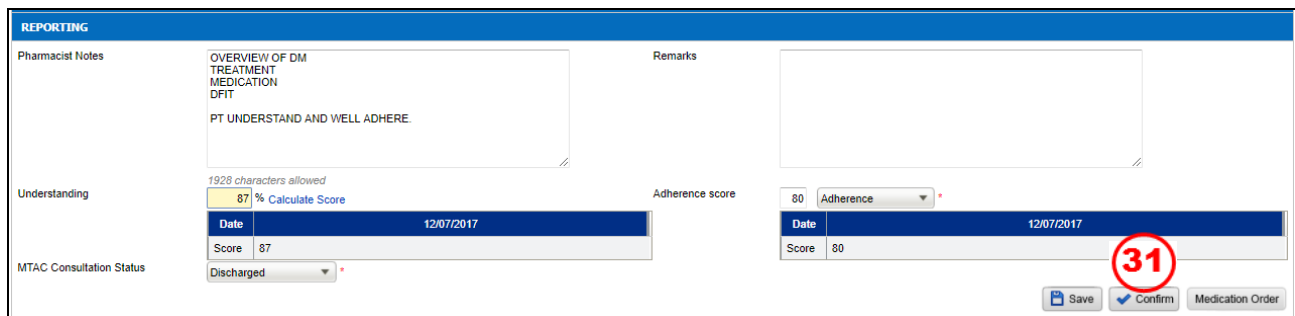


Figure 3.2.1-19 Information Alert Message

STEP 30


Click on the  button



The form is titled "REPORTING" in a blue header. It contains several sections: "Pharmacist Notes" with a text area containing "OVERVIEW OF DM TREATMENT MEDICATION DFT PT UNDERSTAND AND WELL ADHERE.", "Remarks" with an empty text area, "Understanding" with a score of 87 and a "Calculate Score" button, "Adherence score" with a score of 80 and an "Adherence" dropdown menu, and "MTAC Consultation Status" with a "Discharged" dropdown menu. At the bottom right, there are buttons for "Save", "Confirm" (with a red circle "31" next to it), and "Medication Order".

Figure 3.2.1-19 MTAC Reporting – Reporting

STEP 31

Click on the  button to confirm reporting

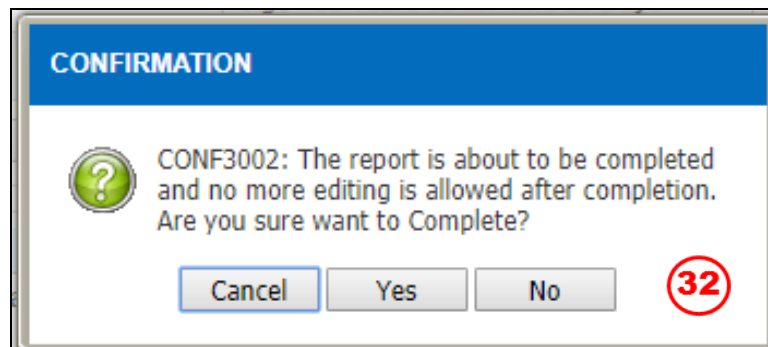


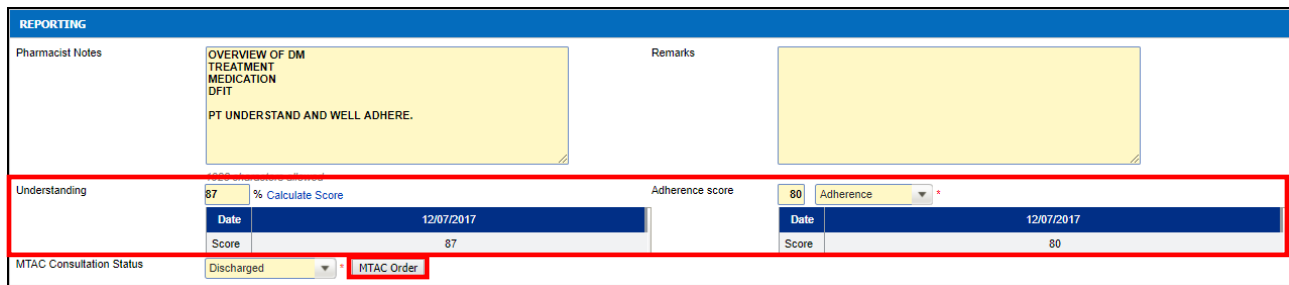
Figure 3.2.1-20 Confirmation Alert Message

STEP 32

Click on the  button to complete

Note

- After user has confirmed the record, no more editing is allowed and the boxes change to yellow color.
- User can click on the **MTAC Order** button to schedule an appointment as per Figure 3.2.1-21
- Previous Adherence Score record from previous visit is display (if any – max 5 newest record).




The screenshot shows a 'REPORTING' section with a yellow background. It contains a 'Pharmacist Notes' field with text: 'OVERVIEW OF DM TREATMENT MEDICATION DFIT PT UNDERSTAND AND WELL ADHERE.' and a 'Remarks' field. Below these are two 'Adherence score' sections. The first section shows 'Understanding' with a score of 87, a date of 12/07/2017, and a 'Score' of 87. The second section shows 'Adherence score' with a score of 80, a date of 12/07/2017, and a 'Score' of 80. At the bottom, there is a 'MTAC Consultation Status' dropdown set to 'Discharged' and a red-bordered button labeled 'MTAC Order'.


Figure 3.2.1-21 Confirmation Alert Message



The screenshot shows the 'MTAC REPORTING' interface. A red box highlights a printer icon in the top left corner. The interface includes a patient information section with fields for PT TEST, Mykad (490318015646), Age (68 Years 04 Months 01 Days), Gender (Female), MRN (HPSF00186555), Address, Phone And Email, Diagnosis, No known Allergies, Height, Weight, BMI/BSA, and Nationality (Warganegara). Below this is a navigation bar with links: Counselling Material, Lab Parameter, Counselling History, MTAC History, Demographic, Pharmacist Notes, Medication Profile, and Other Appointment. The main content area shows 'Encounter No: 0025', 'Visit Date: 12/07/2017', 'Attending Practitioner: Dr. Sal binti Atan', 'Visit Location: KLINIK PAKAR PERUBATAN', 'Type Of MTAC: Diabetes Mellitus', and 'Number Of MTAC Visit: 1'. At the bottom, there are three tabs: 'ASSESSMENT', 'SPECIFIC DETAILS', and 'REPORTING'.

Figure 3.2.1-22 MTAC Reporting - Print

- Click on the  button to print the MTAC report as per Figure 3.2.1-22 and the system will show the report as per Figure 3.2.1-23
- Default to "No history of taking Non-Prescription Medication" if no data in table (in printed report).
- Add "Prescriber Review" Column
- If there is no data in both table, please display as below:
 - No Prescribed Medication Related Issue
 - No Other Issue
- Show "Current Medication" in the report printing
- Add Intervention Date in PCI reporting screen for prescribed Medication issue.



MEDICATION THERAPY ADHERENCE REPORT

Hospital Pakar Sultanah Fatimah, Muar

Patient Name : PT TEST

MRN : HPSF00186555

ID No :

Type of MTAC : Diabetes Mellitus

Diagnosis : FEVER, DIABETES MELLITUS, DIABETES MELLITUS, severe pneumonia, severe pneumonia

Allergy : No Known Allergies

Number of MTAC Visit : 1

MTAC Visit Date : 12/07/2017

Assessment:

Social History	Smoking : No Alcohol Intake : No Drug Abuse : No Pregnancy : No Diet & Lifestyle : PASSIVE	Family History	No of children : 2 Family history of illness : DM, HPT Lives with : Family Members
Medical History	Comorbidity : Hypertension, Diabetes Mellitus, Asthma, Surgical History : No		

Past Medication History	Medication (Specify Strength)	Dose	Frequency	Balance From Previous Supply	Medication Status	Comment
No history of taking Prescription Medication.						
Non-Prescription Medication (Includes Herbal/Vitamin/Other Supplement)					Reason For Taking	Balance/Comments
No history of taking Non-Prescription Medication.						
	Medication (Specify Strength)	Dose	Frequency	Balance From Previous Supply	Medication Status	Comment
Current Medication	metFORMIN HCl 500 mg Tablet	500 mg	TDS (3 times a day)	90	DS	KLINIK PAKAR PERUBATAN/2017-07-11 16:50:27.137/ EncounterNo.0008
	Insulin regular (Insuman Rapid) 100 IU/mL Penfill	1.0000 IU	OD (once daily)	1	DS	KLINIK PAKAR PERUBATAN/2017-07-11 16:50:27.137/ EncounterNo.0008
	Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet	1.0000 tablet	OM (every morning)	30	DS	KLINIK PAKAR PERUBATAN/2017-07-11 16:50:27.137/ EncounterNo.0008
	Simvastatin 40 mg Tablet	20.0000 mg	ON (every night)	15	DS	KLINIK PAKAR PERUBATAN/2017-07-11 16:50:27.137/ EncounterNo.0008

Report:

MTAC Consultation Status: Discharged

Pharmaceutical Care Issues:

Prescribed Medication Related Issues:

No.	Intervention Date	Prescription Start Date	Original Rx No.	Drug Name	Order Details	Modified Order Details	Intervention Remarks	Intervention Details		Prescriber Review
								Types	Description	
1	12/07/2017	12/07/2017		Paracetamol 500 mg Tablet	500 mg,PRN,5 Days	1000 mg,PRN,5 Days	CHANGE FROM 500MG TO 1000MG	Inappropriate Dose		

Other Issue:

No.	Intervention Date	Intervention Details		Pharmaceutical Care Issues	Pharmacist Recommendation	Prescriber Review
		Types	Description			
1	12/07/2017	Incorrect/Inappropriate/Inadequate Regimen	Dose	PCM DOSAGE 500MG	1000MG	

Patient Understanding (medication) DFIT : 87%

Patient Adherence Score : 80 - Adherence

Pharmacist Notes : OVERVIEW OF DM TREATMENT MEDICATION DFIT

PT UNDERSTAND AND WELL ADHERE.

Other remarks : -

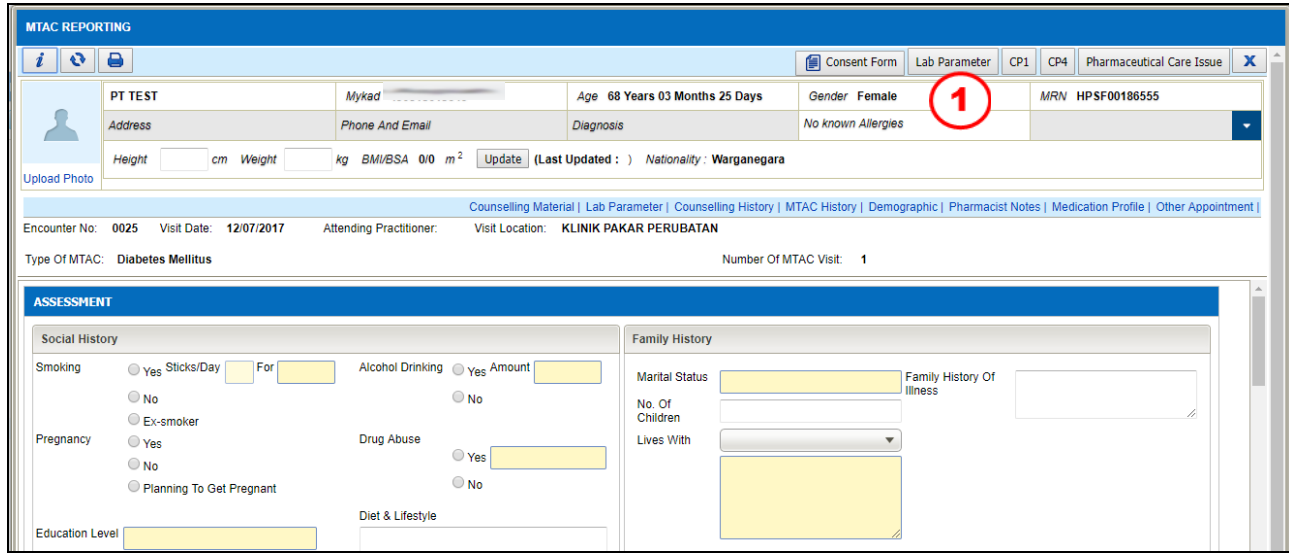
Pharmacist Name:

Date: 19/07/2017

Figure 3.2.1-23 MTAC Printed Report

3.2.2 Other Tabs

Lab Parameter



The MTAC Reporting screen displays patient information and assessment details. A red circle with the number 1 highlights the 'Lab Parameter' tab in the top navigation bar.

MTAC REPORTING

Consent Form | Lab Parameter | CP1 | CP4 | Pharmaceutical Care Issue

PT TEST: Mykad, Age 68 Years 03 Months 25 Days, Gender Female, MRN HPSF00186555

Address, Phone And Email, Diagnosis, No known Allergies

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

Encounter No: 0025, Visit Date: 12/07/2017, Attending Practitioner, Visit Location: KLINIK PAKAR PERUBATAN

Type Of MTAC: Diabetes Mellitus, Number Of MTAC Visit: 1

ASSESSMENT

Social History

Smoking: Yes Sticks/Day For, No, Ex-smoker, Pregnancy: Yes, No, Planning To Get Pregnant, Alcohol Drinking: Yes Amount, No, Drug Abuse: Yes, No, Diet & Lifestyle

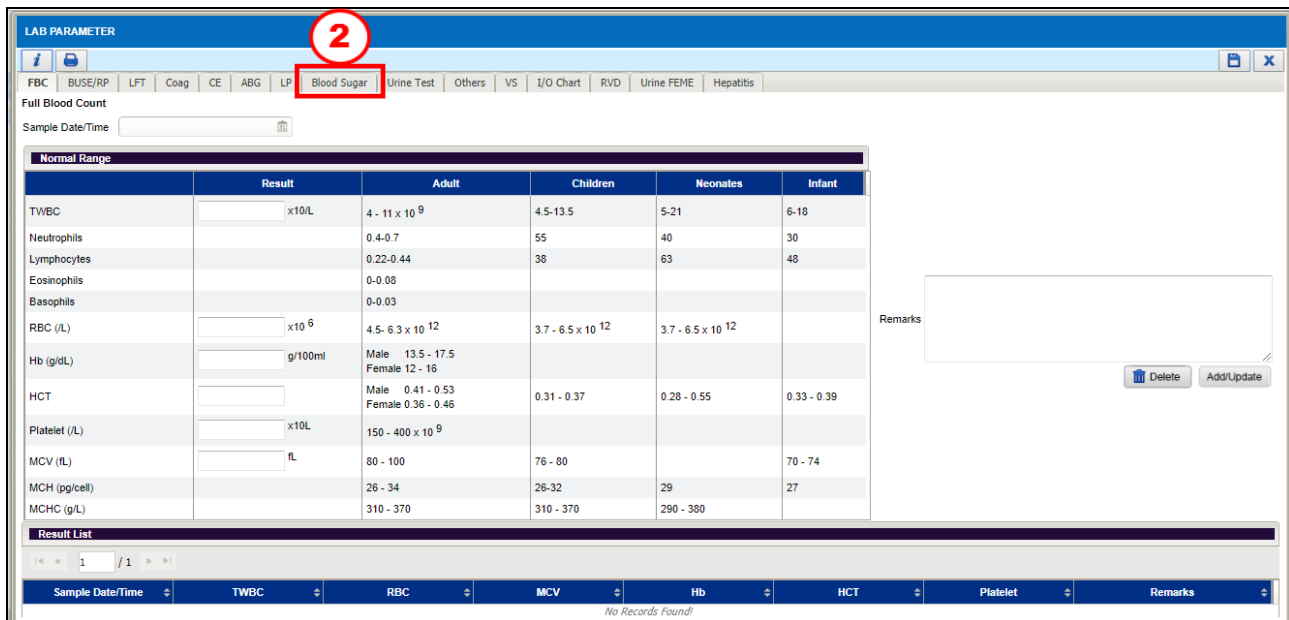
Family History

Marital Status, Family History Of Illness, No. Of Children, Lives With

Figure 3.2.2-1 MTAC Reporting Screen

STEP 1

Click on the **Lab Parameter** button to enter Lab Test Result and the system will show Figure 3.2.2-2



The Lab Parameter screen displays a table of normal ranges for various blood tests. A red circle with the number 2 highlights the 'Blood Sugar' tab in the top navigation bar.

LAB PARAMETER

FBC | BUSE/RP | LFT | Coag | CE | ABG | LP | Blood Sugar | Urine Test | Others | VS | I/O Chart | RVD | Urine FEME | Hepatitis

Full Blood Count

Sample Date/Time

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

Remarks

Delete Add/Update

Result List

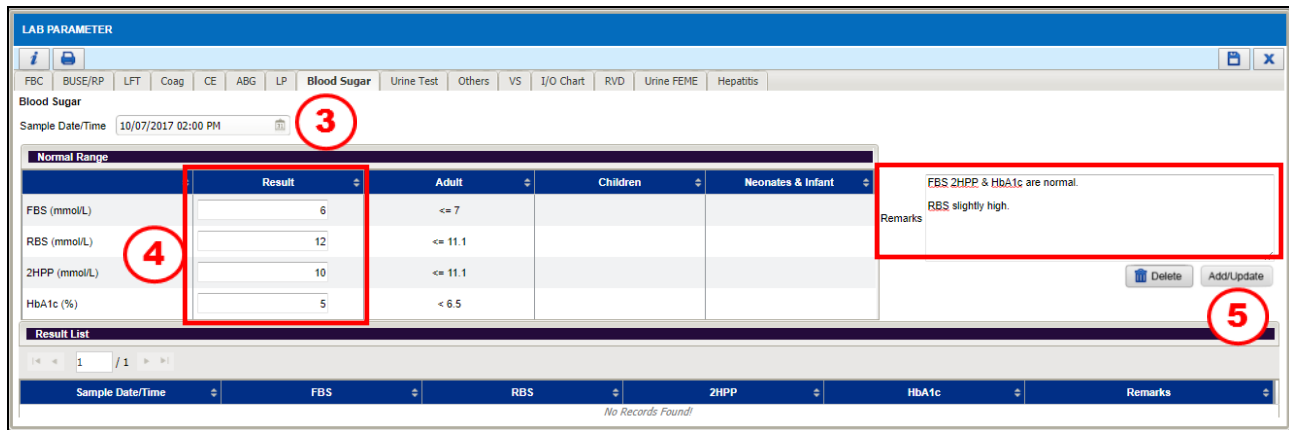
Sample Date/Time TWBC RBC MCV Hb HCT Platelet Remarks

No Records Found!

Figure 3.2.2-2 Lab Parameter Screen

STEP 2

Click on the Lab Test Tabs as per Figure 3.2.2-2



LAB PARAMETER

FBC BUSE/RP LFT Coag CE ABG LP Blood Sugar Urine Test Others VS I/O Chart RVD Urine FEME Hepatitis

Blood Sugar

Sample Date/Time: 10/07/2017 02:00 PM

Normal Range	Result	Adult	Children	Neonates & Infant	Remarks
FBS (mmol/L)	6	<= 7			FBS 2HPP & HbA1c are normal. RBS slightly high.
RBS (mmol/L)	12	<= 11.1			
2HPP (mmol/L)	10	<= 11.1			
HbA1c (%)	5	< 6.5			

Result List


1 / 1

Sample Date/Time	FBS	RBS	2HPP	HbA1c	Remarks
No Records Found!					

Delete Add/Update

Figure 3.2.2-3 Lab Parameter Screen

STEP 3

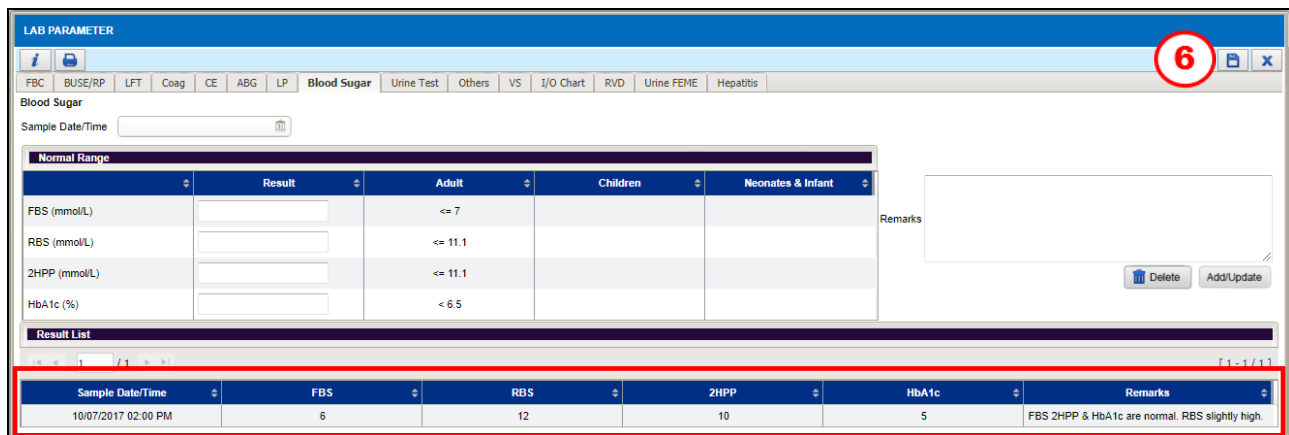
Click on the  calendar button to select the **Sample Date/Time**

STEP 4

Enter the Lab Test **Result** and **Remarks**

STEP 5


Click the  button and **Result List** will be updated as per Figure 3.2.2-4



LAB PARAMETER

FBC BUSE/RP LFT Coag CE ABG LP Blood Sugar Urine Test Others VS I/O Chart RVD Urine FEME Hepatitis

Blood Sugar

Sample Date/Time: 

Normal Range	Result	Adult	Children	Neonates & Infant	Remarks
FBS (mmol/L)		<= 7			
RBS (mmol/L)		<= 11.1			
2HPP (mmol/L)		<= 11.1			
HbA1c (%)		< 6.5			

Result List

1 / 1

Sample Date/Time	FBS	RBS	2HPP	HbA1c	Remarks
10/07/2017 02:00 PM	6	12	10	5	FBS 2HPP & HbA1c are normal. RBS slightly high.

Delete Add/Update

Figure 3.2.2-4 Lab Parameter Screen

STEP 6

Click on the  button to save the record

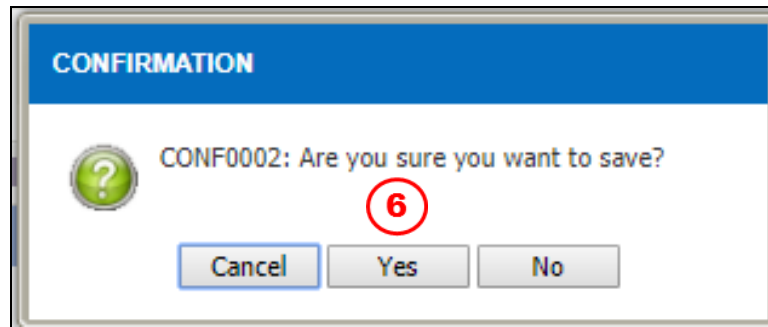
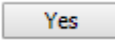
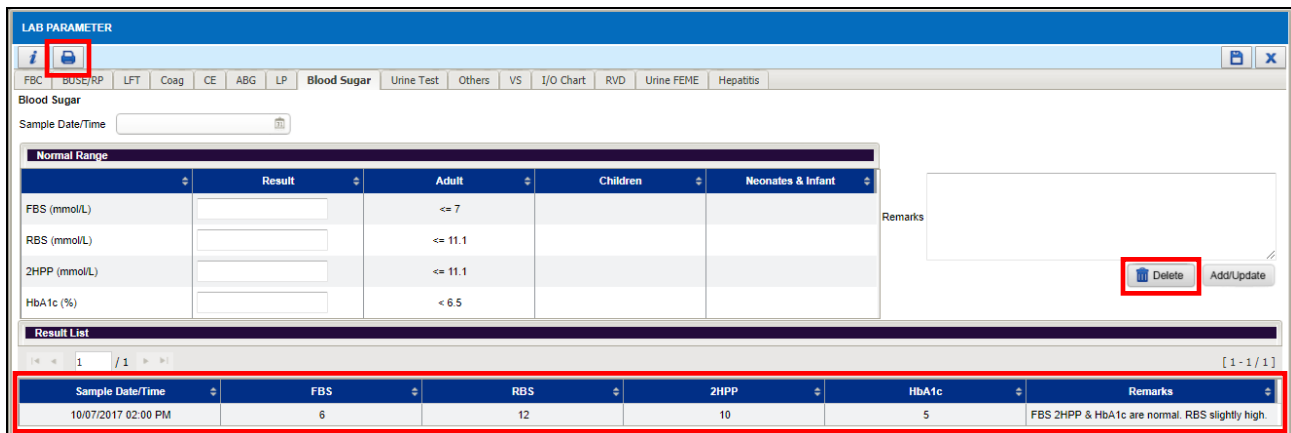


Figure 3.2.2-5 Confirmation Alert Message

STEP 6



Click on the  button to confirm

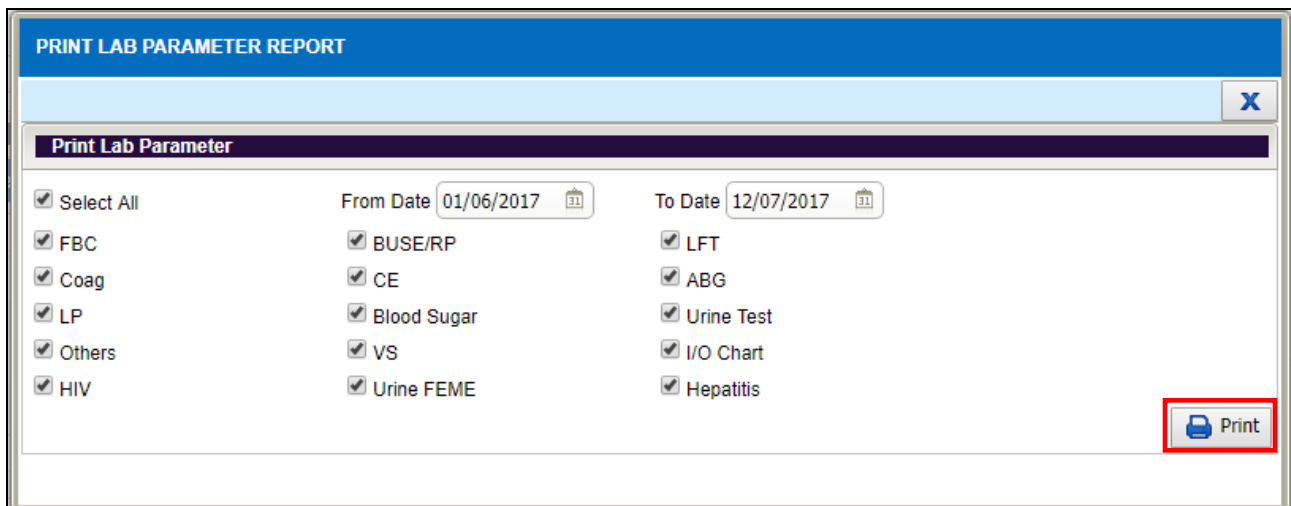


Sample Date/Time	FBS	RBS	2HPP	HbA1c	Remarks
10/07/2017 02:00 PM	6	12	10	5	FBS 2HPP & HbA1c are normal. RBS slightly high.

Figure 3.2.2-6 Lab Parameter Screen

Note

- To delete the record, double click the Result List and click the  button.
- To print the lab report, click on the  button as per Figure 3.2.2-6



Print Lab Parameter

☒ Select All

☒ FBC

☒ Coag

☒ LP

☒ Others

☒ HIV

☒ BUSE/RP

☒ CE

☒ Blood Sugar

☒ VS

☒ Urine FEME

☒ LFT

☒ ABG



☒ Urine Test

☒ I/O Chart

☒ Hepatitis

☒ Print

Figure 3.2.2-7 Print Lab Parameter Report

- Tick the ☒ checkbox to select the **Lab Test** and Select **From Date & To Date** by clicking the  button.
- Click the  **Print** button to print the Lab Parameter Report as per Figure 3.2.2-7

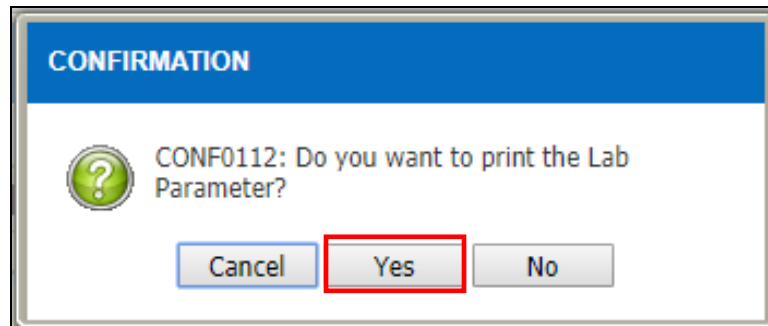
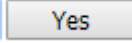


Figure 3.2.2-8 Confirmation Alert Message

- Click the  button to confirm and the system will show the Lab Parameter Report as per Figure 3.2.2-9


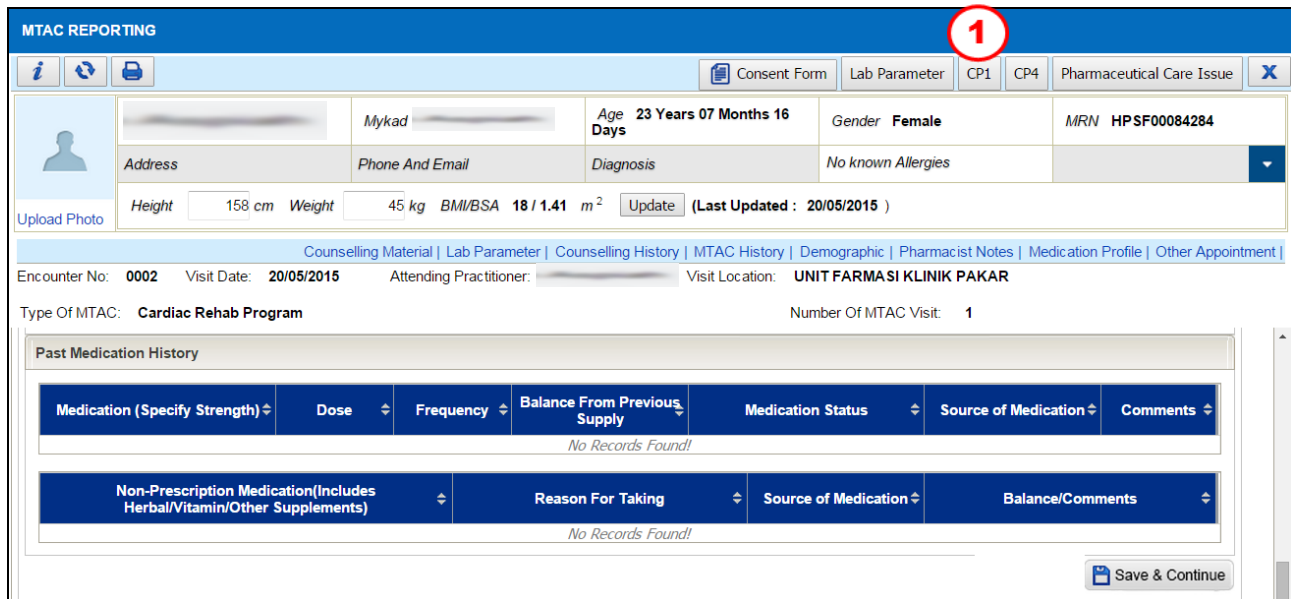
 KEMENTERIAN KESIHATAN MALAYSIA LAB PARAMETER REPORT Hospital Pakar Sultanah Fatimah, Muar		Lab Parameter
PATIENT NAME : PT TEST		IC NO :
MRN NO : HPSF00186555		AGE : 68 Years 03 Months 25 Days
WARD/BED : KLINIK PAKAR PERUBATAN /		Weight/Height : Kg / Cm
ADMISSION DATE : 12/07/2017		GENDER : Female
REASON FOR ADMISSION :		
BUSE/RP		
Sample Date/Type	Urea	Na
	K	SrCr
	CrCl	Cl
	Ca	Mg
	PO4-	Remarks
Coag		
Sample Date/Type	PT	APTT
	INR	Remarks
26/06/2017	13	28
	1.2	All Normal
Blood Sugar		
Sample Date/Type	FBS	RBS
	2HPP	HbA1c
	Remarks	
10/07/2017	6	12
	10	5
	FBS 2HPP & HbA1c are normal.	
	RBS slightly high.	

Figure 3.2.2-9 Lap Parameter Printed Report

CP1



MTAC REPORTING

Consent Form | Lab Parameter | **CP1** | CP4 | Pharmaceutical Care Issue

Mykad: [Redacted] Age: 23 Years 07 Months 16 Days Gender: Female MRN: HPSF00084284

Address: [Redacted] Phone And Email: [Redacted] Diagnosis: [Redacted] No known Allergies

Height: 158 cm Weight: 45 kg BMI/BSA: 18 / 1.41 m² Update (Last Updated : 20/05/2015)

Encounter No: 0002 Visit Date: 20/05/2015 Attending Practitioner: [Redacted] Visit Location: UNIT FARMASI KLINIK PAKAR

Type Of MTAC: Cardiac Rehab Program Number Of MTAC Visit: 1

Past Medication History

Medication (Specify Strength)	Dose	Frequency	Balance From Previous Supply	Medication Status	Source of Medication	Comments
No Records Found!						

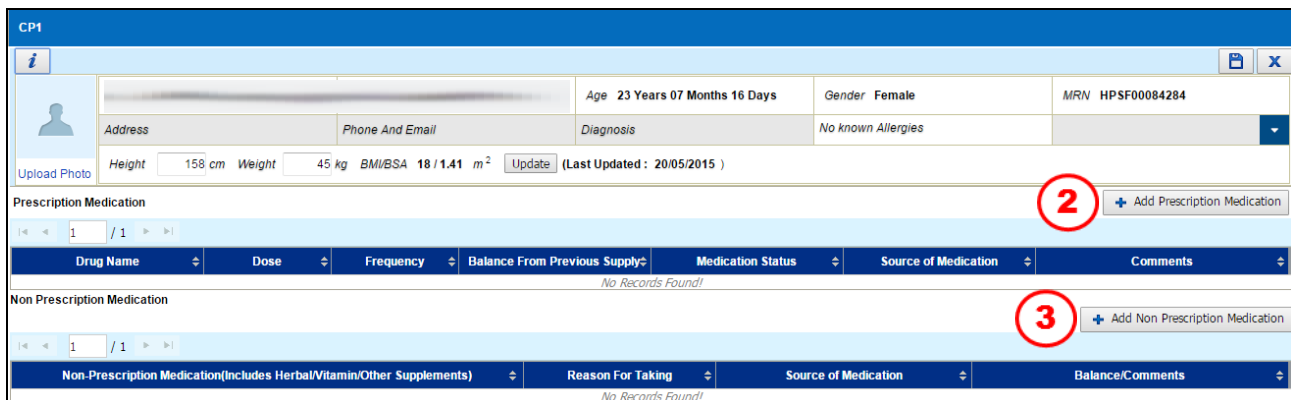
Non-Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Reason For Taking	Source of Medication	Balance/Comments
No Records Found!			

Save & Continue

Figure 3.2.2-10 MTAC Reporting – Assessment on Past Medication History

STEP 1

Click on the **CP1** button to add 'Past Medication History' as shown in Figure 3.2.2-10



CP1

Address: [Redacted] Phone And Email: [Redacted] Diagnosis: [Redacted] No known Allergies

Height: 158 cm Weight: 45 kg BMI/BSA: 18 / 1.41 m² Update (Last Updated : 20/05/2015)

Prescription Medication ➕ Add Prescription Medication

Drug Name	Dose	Frequency	Balance From Previous Supply	Medication Status	Source of Medication	Comments
No Records Found!						

Non Prescription Medication ➕ Add Non Prescription Medication

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

Figure 3.2.2-11 CP1

STEP 2

Click on the **➕ Add Prescription Medication** button and the 'Prescription Medication' window will be displayed as shown in Figure 3.2.2-12. Enter the necessary information and save

Note

Past Medication History consist of:


- Prescription Medication.
 - It has certain condition whereby the drug display at prescription medication come from the latest visit patient at that facility

- User can add prescriptions medication from other facility too

- Non Prescription Medication.

- User can add any none prescription medication that has been taken by patient in system

STEP 3

Click on the  button and the 'Non Prescription Medication' window will be displayed as shown in Figure 3.2.2-13. Enter the necessary information and save

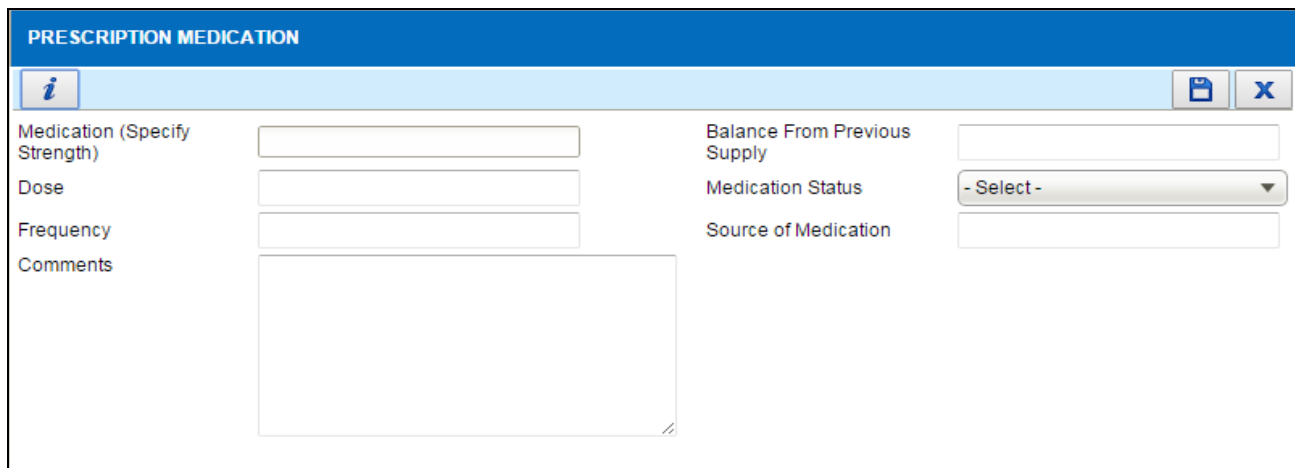


Figure 3.2.2-12 Prescription Medication

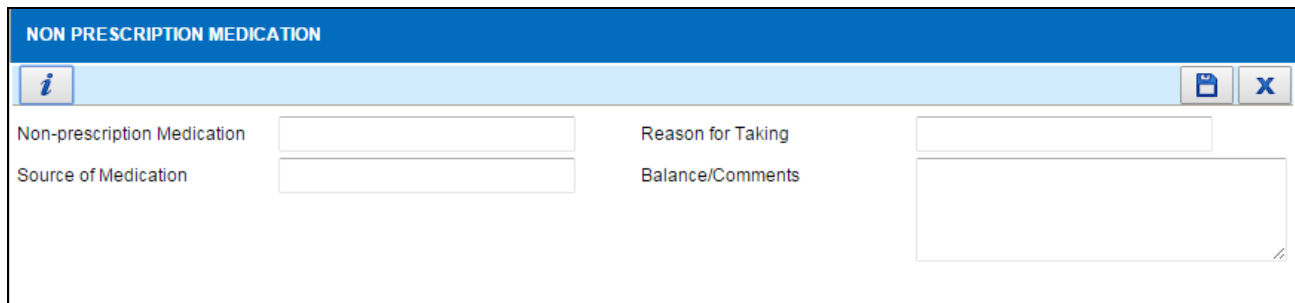

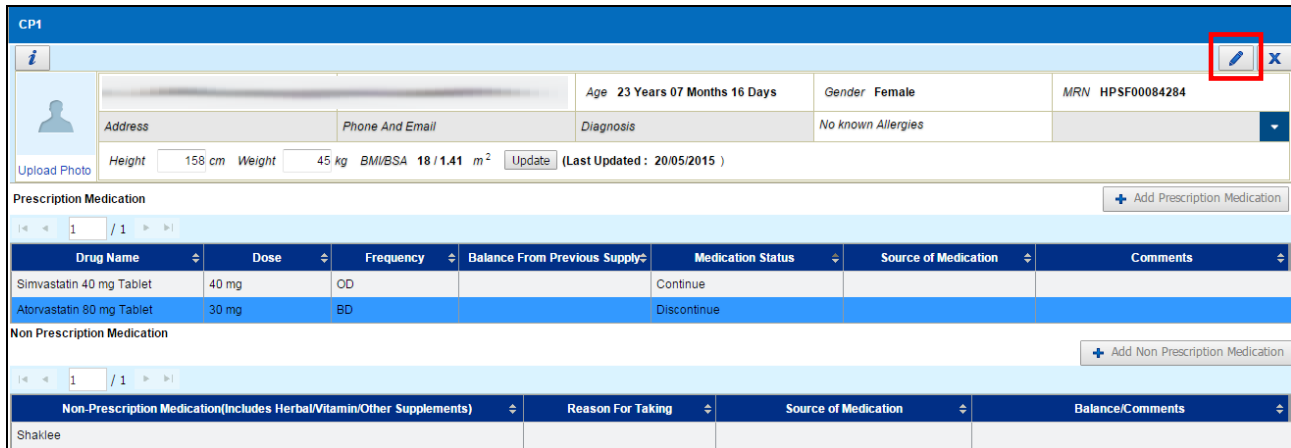



Figure 3.2.2-13 Non Prescription Medication



Note

Click on the  button as shown in Figure 3.2.1-14 to edit or to add details to the medication.




CP1

i 


 **PT TEST** Mykad  Age 23 Years 07 Months 16 Days Gender Female MRN HPSF00084284

Address Phone And Email Diagnosis No known Allergies

Upload Photo Height 158 cm Weight 45 kg BMI/BSA 18 / 1.41 m² Update (Last Updated : 20/05/2015)

Prescription Medication  Add Prescription Medication

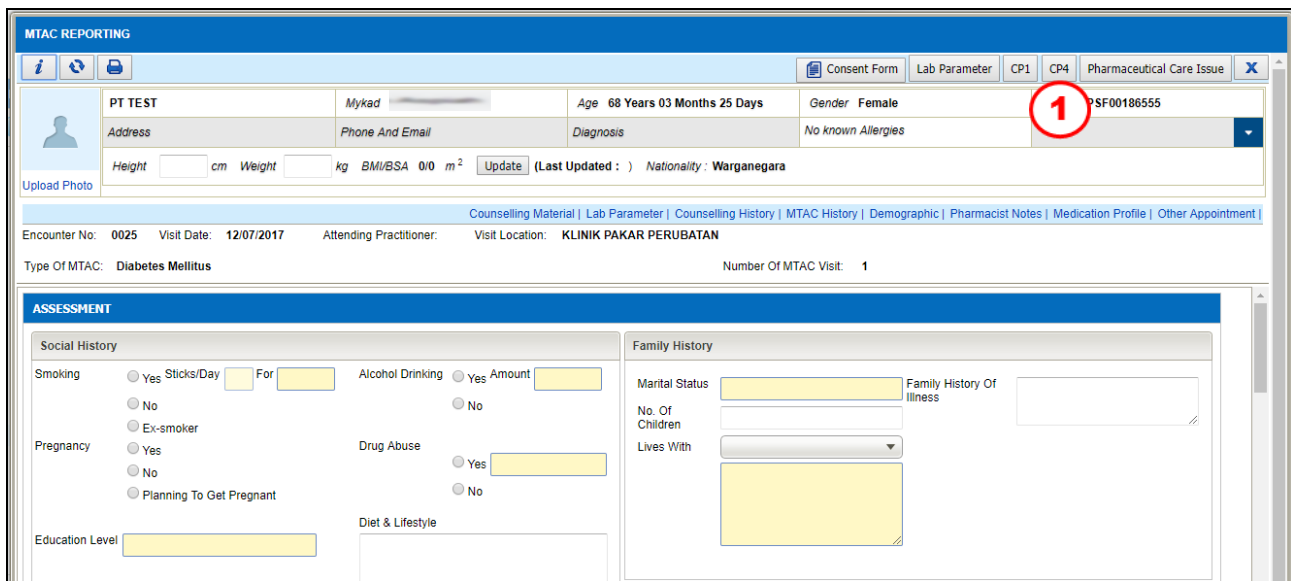
Drug Name	Dose	Frequency	Balance From Previous Supply	Medication Status	Source of Medication	Comments
Simvastatin 40 mg Tablet	40 mg	OD		Continue		
Atorvastatin 80 mg Tablet	30 mg	BD		Discontinue		

Non Prescription Medication  Add Non Prescription Medication






Non-Prescription Medication(Includes Herbal/Vitamin/Other Supplements)	Reason For Taking	Source of Medication	Balance/Comments
Shaklee			



Figure 3.2-2-14 CP1 (Edit)

CP4



MTAC REPORTING

i    Consent Form Lab Parameter CP1 CP4  Pharmaceutical Care Issue 

 **PT TEST** Mykad  Age 68 Years 03 Months 25 Days Gender Female **1** HPSF00186555

Address Phone And Email Diagnosis No known Allergies

Upload Photo Height cm Weight kg BMI/BSA 0/0 m² Update (Last Updated :) Nationality : Warganegara

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

Encounter No: 0025 Visit Date: 12/07/2017 Attending Practitioner: Visit Location: KLINIK PAKAR PERUBATAN

Type Of MTAC: Diabetes Mellitus Number Of MTAC Visit: 1

ASSESSMENT

Social History

Smoking ☐ Yes Sticks/Day For Alcohol Drinking ☐ Yes Amount ☐ No

☐ Ex-smoker

Pregnancy ☐ Yes ☐ No ☐ Planning To Get Pregnant

Drug Abuse ☐ Yes ☐ No

Education Level Diet & Lifestyle

Family History

Marital Status Family History Of

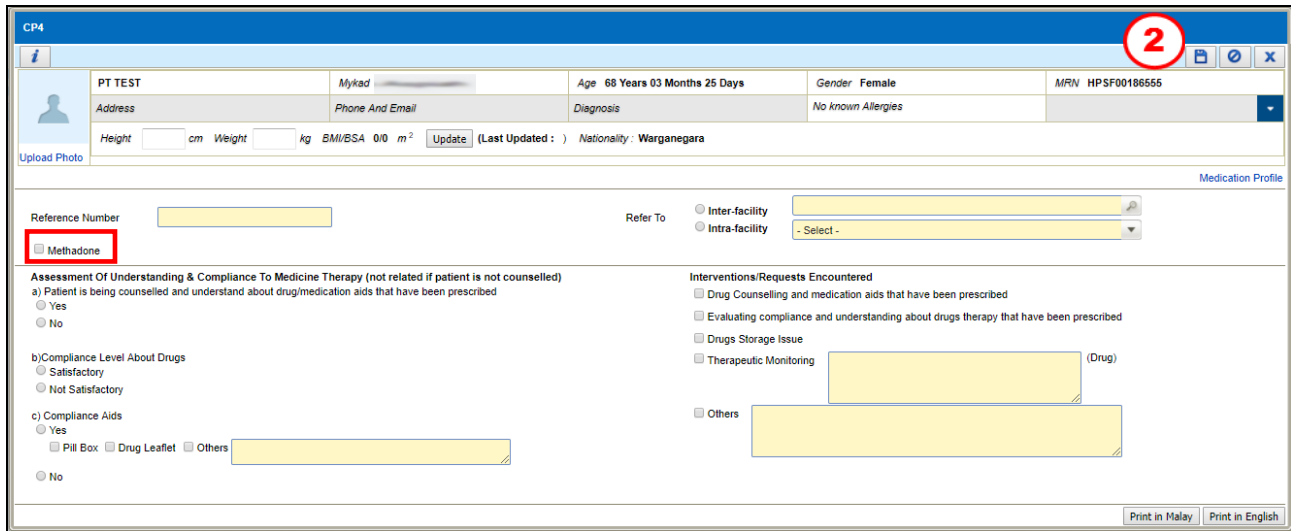
No. Of Children

Lives With

Figure 3.2.2-15 CP4 Screen

STEP 1

Click on the  button to enter the details



CP4

PT TEST Mykad [redacted] Age 68 Years 03 Months 25 Days Gender Female MRN HPSF00186555

Address [redacted] Phone And Email [redacted] Diagnosis [redacted] No known Allergies

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

Reference Number [redacted] 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 ☐ No

☐ Pill Box ☐ Drug Leaflet ☐ Others [redacted]

Interventions/Requests Encountered

☐ Drug Counselling and medication aids that have been prescribed

☐ Evaluating compliance and understanding about drugs therapy that have been prescribed

☐ Drugs Storage Issue

☐ Therapeutic Monitoring [redacted] (Drug)

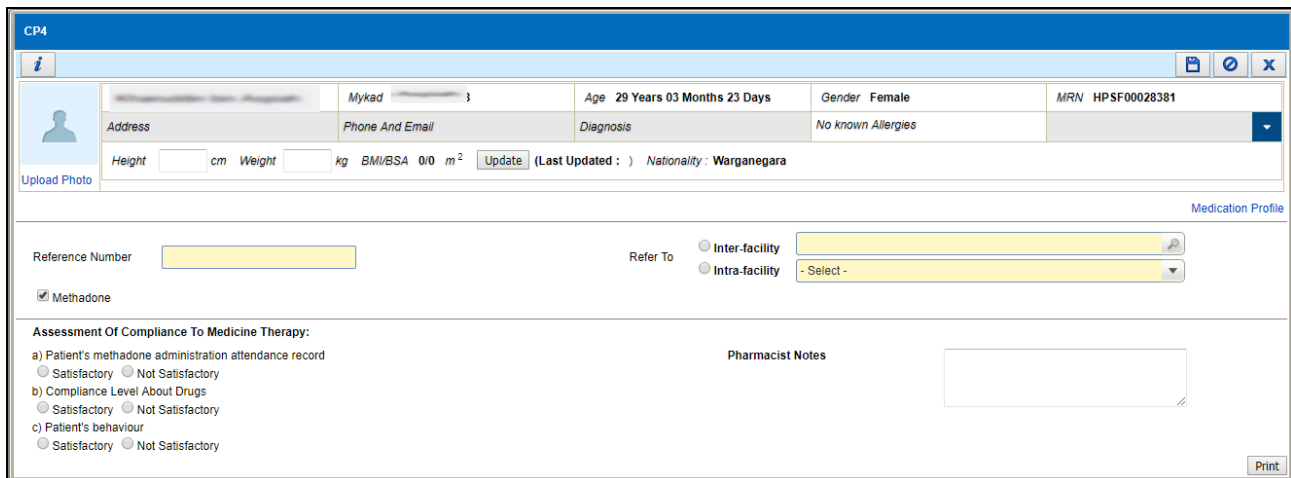
☐ Others [redacted]

Print in Malay Print in English

Figure 3.2.2-16 CP4 Assessment Of Understanding & Compliance Screen

Note

- For Methadone, user can click on the Methadone checkbox  **Methadone** to assess the compliance as per Figure or proceed with the **Assessment Of Understanding & Compliance To Medicine Therapy** below and enter the **Interventions/Requests Encountered**



CP4

Mykad [redacted] Age 29 Years 03 Months 23 Days Gender Female MRN HPSF00028381

Address [redacted] Phone And Email [redacted] Diagnosis [redacted] No known Allergies

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

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

☒ 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

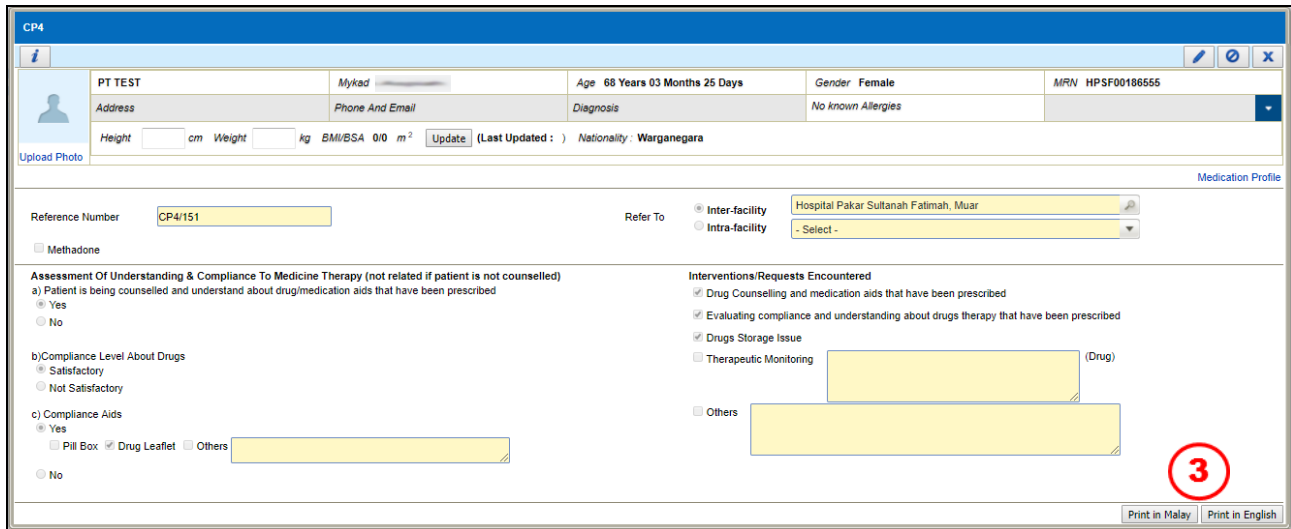
Pharmacist Notes [redacted]

Print

Figure 3.2.2-17 CP4 – Methadone Screen

STEP 2

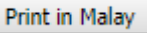
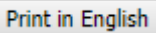
Click on the  button to save the record

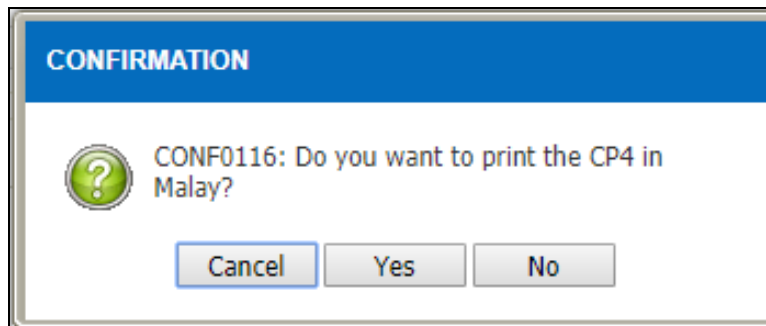


The screenshot shows the CP4 print report interface. At the top, there's a header bar with 'CP4' and navigation icons. Below it, a patient information section includes fields for PT TEST, Mykad, Age (68 Years 03 Months 25 Days), Gender (Female), MRN (HPSF00186555), Address, Phone And Email, Diagnosis, No known Allergies, Height, Weight, BMI/BSA, and Nationality (Warganegara). A 'Medication Profile' section is on the right. The main body contains 'Assessment Of Understanding & Compliance To Medicine Therapy' with sub-sections a) Patient is being counselled, b) Compliance Level About Drugs, and c) Compliance Aids. It also includes 'Interventions/Requests Encountered' with checkboxes for Drug Counselling, Evaluating compliance, Drugs Storage Issue, Therapeutic Monitoring, and Others. A red circle with the number '3' is placed over the 'Print in Malay' and 'Print in English' buttons at the bottom right.

Figure 3.2.2-18 CP4 Print Report

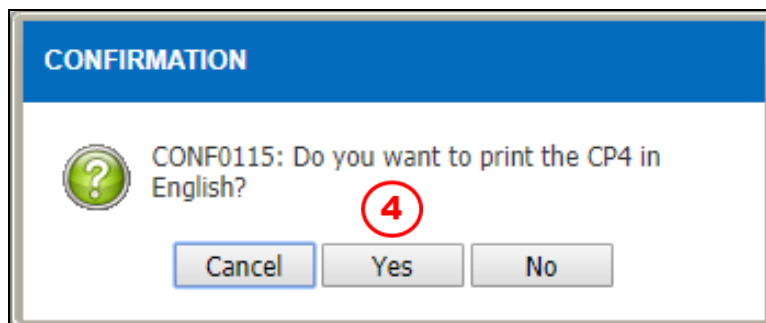
STEP 3

Click on the  or  to print the CP4 as per Figure 3.2.2-18



The screenshot shows a 'CONFIRMATION' dialog box with a question mark icon. The text reads: 'CONF0116: Do you want to print the CP4 in Malay?'. Below the text are three buttons: 'Cancel', 'Yes', and 'No'.

Figure 3.2.2-19 Confirmation Alert Message



The screenshot shows a 'CONFIRMATION' dialog box with a question mark icon. The text reads: 'CONF0115: Do you want to print the CP4 in English?'. Below the text are three buttons: 'Cancel', 'Yes', and 'No'. A red circle with the number '4' is placed over the 'Yes' button.

Figure 3.2.2-20 Confirmation Alert Message

STEP 4

Click on the  button to confirm and the Referral Note will be display as per Figure 3.2.2-20

KEMENTERIAN KESIHATAN MALAYSIA

Hospital Pakar Sultanah Fatimah, Muar

Pharmacy Department

REFERRAL NOTE

CP4/151

TO:

Medical Officer / Pharmacist : Hospital Pakar Sultanah Fatimah, Muar

RE: PATIENT REFERRAL

PT TEST

HP SF00186555

490318015646

Name

MRN

This patient HAS / NOT BEEN GIVEN MEDICATION COUNSELING for understanding of the treatment that have been prescribed. We expect that you can give the counselling & further evaluation that needed to increase the effectiveness of the treatment.

2. DIAGNOSIS :

None

3. LIST OF CURRENT DRUG :

Drug Name	Dose	Frequency	Start Date	End Date	Supply Period
Insulin regular (Insuman Rapid) 100 IU/mL Penfill	1 IU	OD (once daily)	11/07/2017	10/08/2017	30 Days
Simvastatin 40 mg Tablet	20 mg	ON (every night)	11/07/2017	10/08/2017	30 Days
metFORMIN HCl 500 mg Tablet	500 mg	TDS (3 times a day)	11/07/2017	10/08/2017	30 Days
Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet	1 tablet	OM (every morning)	11/07/2017	10/08/2017	30 Days

4. UNDERSTANDING ASSESSMENT & COMPLIANCE TO DRUG

(not applicable if the patient has not been counseled):

a) The patient has been counseled and understand the drug/medication aids prescribed



Yes



No

b) Compliance level about Drugs



Satisfactory



Not-Satisfactory

c) Compliance Aids



Pill Box



Drug Message



Others



No

5. INFORMATION / REQUESTS ENCOUNTERED :

[Please tick (☒) in the box provided]

<input checked="" type="checkbox"/>	Drug counselling and medication aids that have been prescribed
<input checked="" type="checkbox"/>	Evaluate compliance with and understanding of the prescribed drug therapy
<input type="checkbox"/>	Therapeutic monitoring: (Drug)
<input checked="" type="checkbox"/>	Drug storage issues
<input type="checkbox"/>	Other:

Thank You,

Noraini Binti Saari

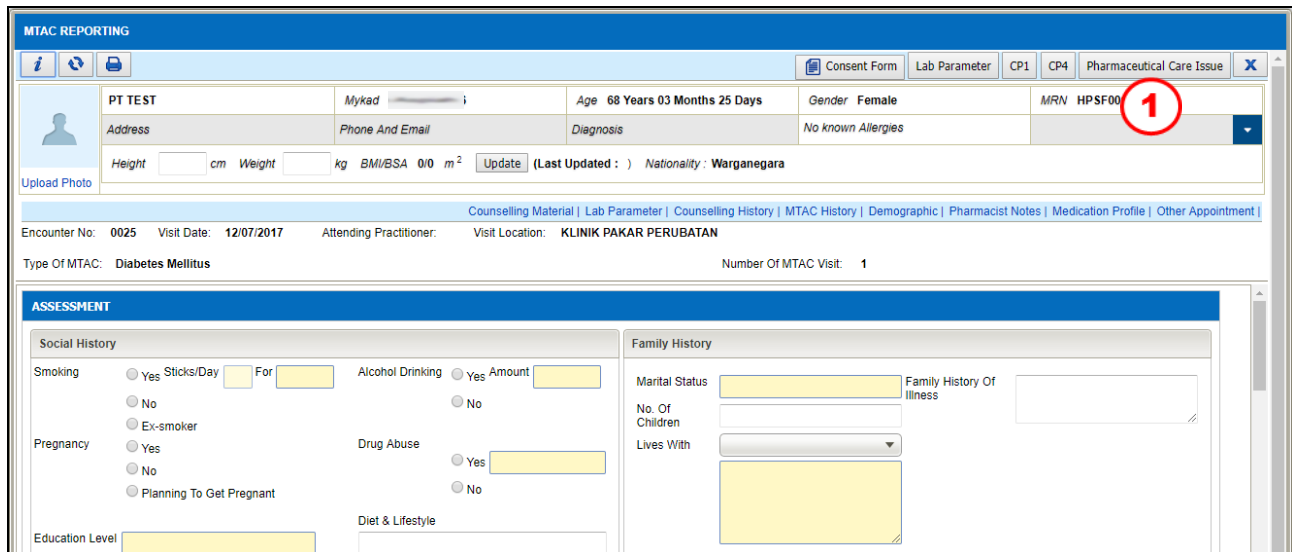
PF54

069521901

12/07/2017

Figure 3.2.2-21 CP4 / Referral Note Printed Report

Pharmaceutical Care Issue



MTAC REPORTING

Consent Form | Lab Parameter | CP1 | CP4 | **Pharmaceutical Care Issue**

PT TEST: Mykad: [Redacted] | Age: 68 Years 03 Months 25 Days | Gender: Female | MRN: HPSF001

Address: [Redacted] | Phone And Email: [Redacted] | Diagnosis: [Redacted] | No known Allergies

Height: [Redacted] cm | Weight: [Redacted] kg | BMI/BSA: 0/0 m² | Update | (Last Updated:) | Nationality: Warganegara

Upload Photo

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

Encounter No: 0025 | Visit Date: 12/07/2017 | Attending Practitioner: [Redacted] | Visit Location: KLINIK PAKAR PERUBATAN

Type Of MTAC: Diabetes Mellitus | Number Of MTAC Visit: 1

ASSESSMENT

Social History

Smoking: ☐ Yes Sticks/Day [Redacted] For [Redacted] ☐ No ☐ Ex-smoker

Pregnancy: ☐ Yes ☐ No ☐ Planning To Get Pregnant

Alcohol Drinking: ☐ Yes Amount [Redacted] ☐ No

Drug Abuse: ☐ Yes [Redacted] ☐ No

Education Level: [Redacted] | Diet & Lifestyle: [Redacted]

Family History

Marital Status: [Redacted] | Family History Of Illness: [Redacted]

No. Of Children: [Redacted] | Lives With: [Redacted]

Figure 3.2.2-22 MTAC Reporting Screen

STEP 1

Click on the **Pharmaceutical Care Issue** button and the system will show Figure 3.2.2-22

PHARMACEUTICAL CARE ISSUE

PT TEST Mykad [redacted] Age 68 Years 03 Months 25 Days Gender Female MRN HPSF00186555

Address [redacted] Phone And Email [redacted] Diagnosis [redacted] No known Allergies

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

Upload Photo

PRESCRIBED MEDICATION RELATED ISSUES

No	Intervention Date	Drug	Order Details	Intervention	Intervention Remarks	Intervention Status	Outcome
1	12/07/2017 04:27 PM	Paracetamol 500 mg Tablet	1000 mg, PRN, 5 Days	Inappropriate Dose	CHANGE FROM 500MG TO 1000MG	Accepted	Outcome

OTHER ISSUES

Interventions/Requests Encountered

Date: 12/07/2017

Type of Intervention: - Select -

PCI: [redacted]

Pharmacist Recommendation: [redacted]

Description: - Select -

Status of Intervention: ☐ Accepted ☐ Not Accepted

Outcome: [redacted]


Delete Add/Update

INTERVENTIONS

Date	Type of Intervention	Description	PCI	Pharmacist Recommendation	Status of Intervention	Outcome	Follow-up
No Records Found!							

Figure 3.2.2-25 Other Issues Screen

STEP 4

Click on the  button to update and it will appear below under **Interventions** section as per Figure 3.2.2-26

OTHER ISSUES

Interventions/Requests Encountered

Date: 12/07/2017

Type of Intervention: - Select -

PCI: [redacted]

Pharmacist Recommendation: [redacted]

Description: - Select -

Status of Intervention: ☐ Accepted ☐ Not Accepted

Outcome: [redacted]


Delete Add/Update

INTERVENTIONS

Date	Type of Intervention	Description	PCI	Pharmacist Recommendation	Status of Intervention	Outcome	Follow-up	Checklist
12/07/2017	Incorrect/inappropriate/inadequate Regimen	Dose	PCM DOSAGE 500MG	1000MG	Accepted	TEMPERATURE DECREASE		<input type="checkbox"/>

Figure 3.2.2-26 Interventions Section

STEP 5

Click on the  button to save the record as per Figure 3.2.2-23

Note

Tick on the  checkbox and click the  button to delete the intervention record.

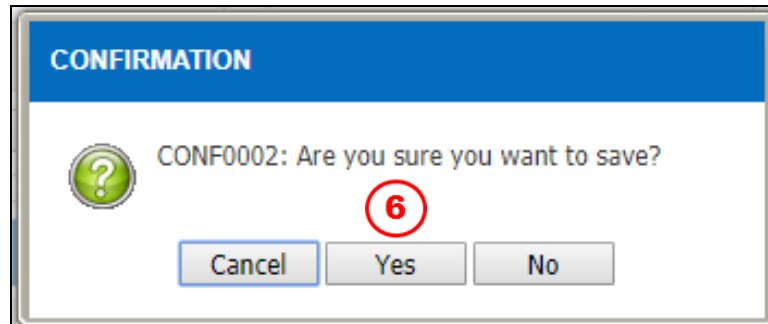
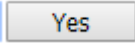


Figure 3.2.2-27 Confirmation Alert Message

STEP 6

Click on the  button to confirm

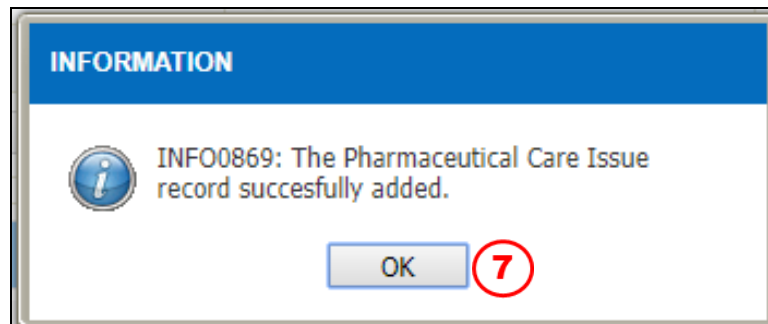
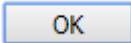


Figure 3.2.2.28 Information Alert Message

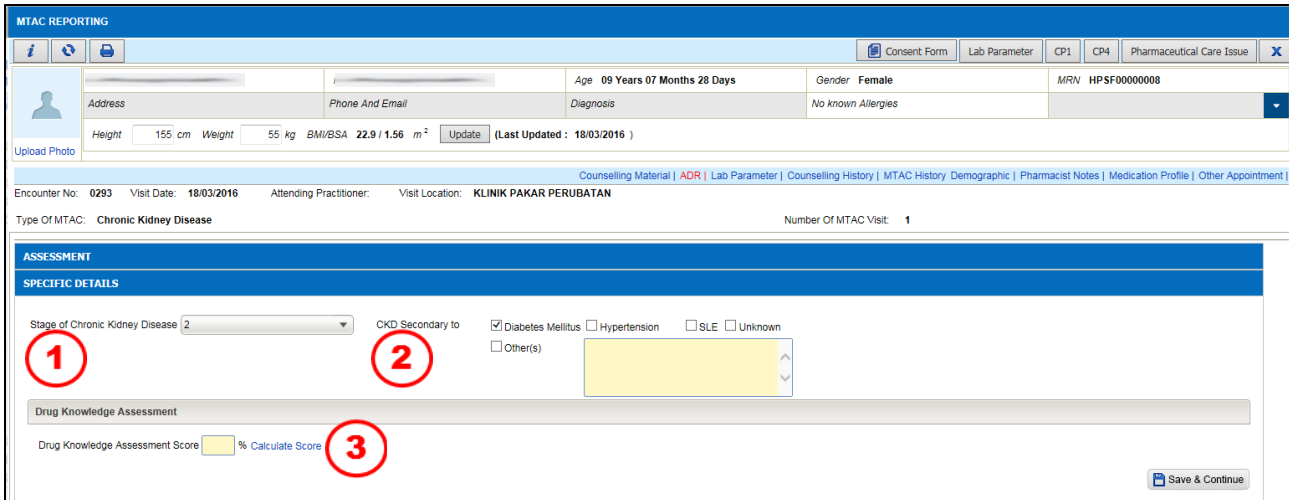
STEP 7

Click on the  button

3.2.3 Create New MTAC Reporting With Specific Details

3.2.3.1 Chronic Kidney Disease

This function allows user to record Specific Details for Chronic Kidney Disease for MTA patients.



The screenshot shows the 'MTAC REPORTING' interface. At the top, there are tabs for 'Consent Form', 'Lab Parameter', 'CP1', 'CP4', and 'Pharmaceutical Care Issue'. Below this, patient information is displayed, including 'Age 09 Years 07 Months 28 Days', 'Gender Female', and 'MRN HPSF00000008'. The 'Type Of MTAC' is set to 'Chronic Kidney Disease'. The 'SPECIFIC DETAILS' section contains a dropdown for 'Stage of Chronic Kidney Disease' (highlighted with a red circle 1), checkboxes for 'CKD Secondary to' (Diabetes Mellitus, Hypertension, SLE, Unknown, and Other(s) - highlighted with a red circle 2), and a 'Drug Knowledge Assessment' section with a score field and a 'Calculate Score' button (highlighted with a red circle 3). A 'Save & Continue' button is at the bottom right.

Figure 3.2.3.1-1 Specific Details – Chronic Kidney Disease

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Chronic Kidney Disease.

STEP 1

Select **Stage of Chronic Kidney Disease** from the drop down box

- 1
- 2
- 3a
- 3b
- 4
- 5

STEP 2

Select the check box for **CKD Secondary to** as below:

- Diabetes Mellitus
- Hypertension
- SLE
- Unknown
- Other(s)

Note

Blank fields will be enabled if user selects 'Other(s)' radio button.

STEP 3

Click on the [Calculate Score](#) hyperlink and window for '**Drug Knowledge Assessment Score**' will be displayed as shown in Figure 3.2.3.1-2

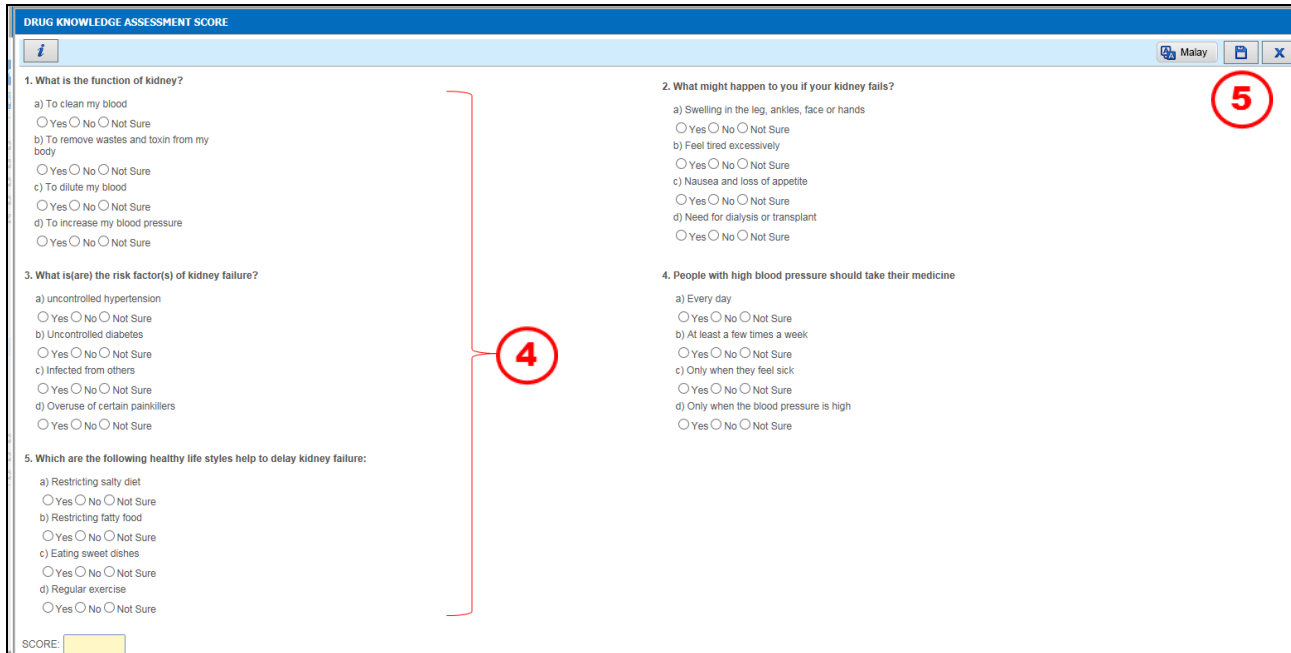



Figure 3.2.3.1-2 Drug Knowledge Assessment Score

STEP 4


Answer the questions for **Drug Knowledge Assessment** by checking the radio button for below:

1. **What is the function of kidney?**
2. **What might happen to you if your kidney fails?**
3. **What is (are) the risk factor(s) of kidney failure?**
4. **People with high blood pressure should take their medicine**
5. **Which are the following healthy life styles help to delay kidney failure:**

Note

- The questions are not mandatory to be answered.
- Click on the  button to view the questions in Malay language.
- Score will be automatically calculated and automatically displayed.

STEP 5

Click on the  button to save the answered question(s)

STEP 6

Click on the  button to confirm save record

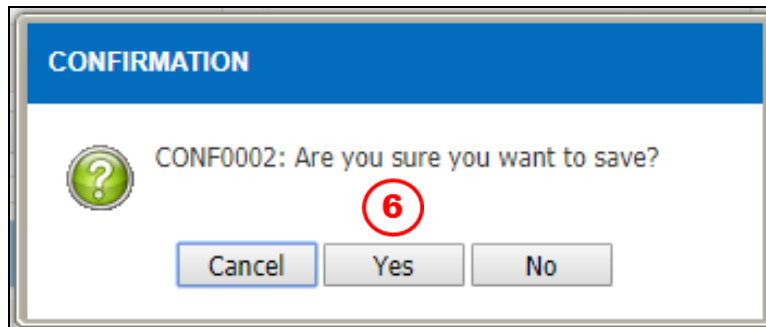
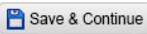


Figure 3.2.3.1-3 Confirmation Alert Message

STEP 7

Click on the  button as shown in Figure 3.2.3.1-4 to save and continue with reporting section

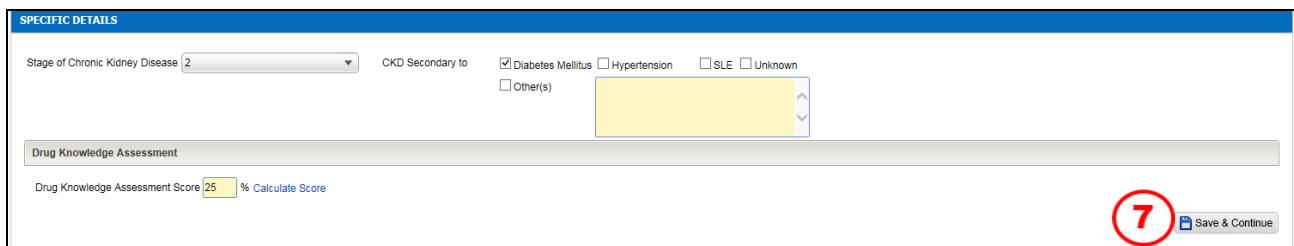
A screenshot of a web form titled "SPECIFIC DETAILS". The form contains several fields: "Stage of Chronic Kidney Disease" with a dropdown menu showing "2", "CKD Secondary to" with checkboxes for "Diabetes Mellitus", "Hypertension", "SLE", "Unknown", and "Other(s)", and a "Drug Knowledge Assessment" section with a "Drug Knowledge Assessment Score" field showing "25" and a "Calculate Score" button. In the bottom right corner, there is a "Save & Continue" button with a red circle containing the number 7 next to it.

Figure 3.2.3.1-4 Specific Details – Chronic Kidney Disease

STEP 8

Click on the  button to confirm save record

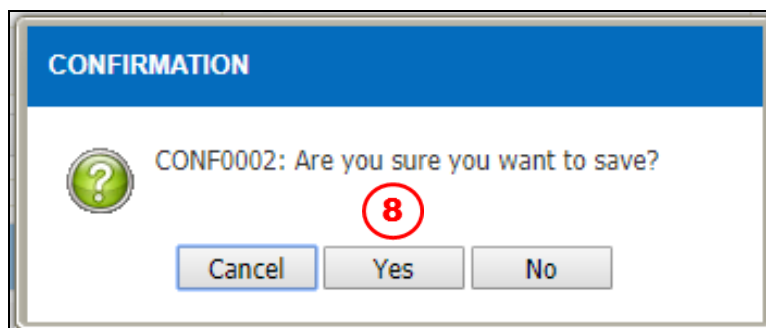



Figure 3.2.3.1-5 Confirmation Alert Message

STEP 9

Click on the  button to confirm record

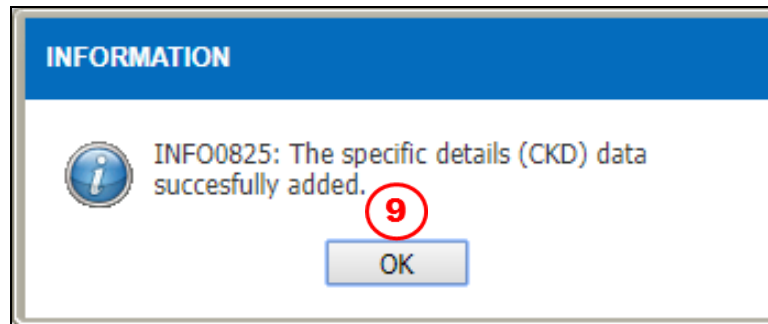


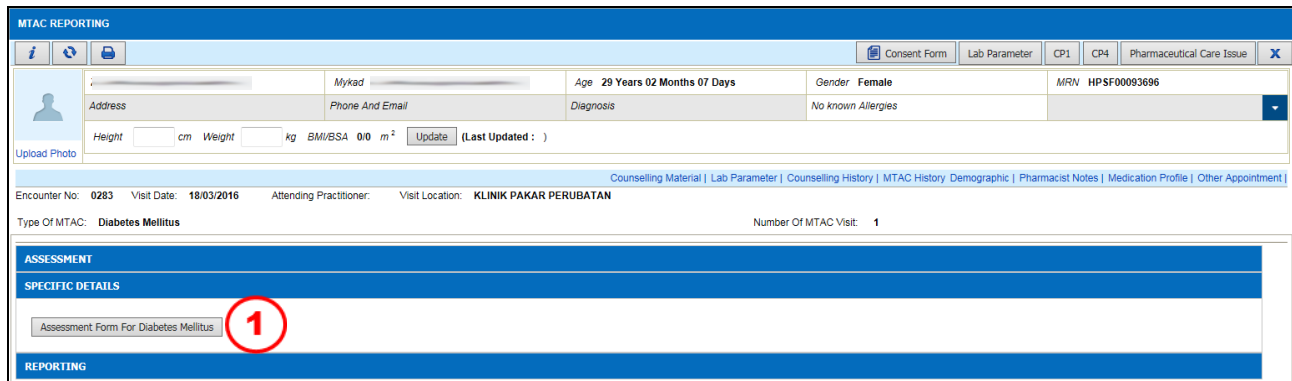
Figure 3.2.3.1-6 Information alert message

Note

For '**Reporting**' section, repeat steps from the **Note (page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.2 Diabetes Mellitus

This function allow user to record Specific Details for Diabetes Mellitus for MTAC patient



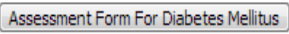
The screenshot shows the 'MTAC REPORTING' interface. At the top, there are tabs for 'Consent Form', 'Lab Parameter', 'CP1', 'CP4', and 'Pharmaceutical Care Issue'. Below these, there is a patient information section with fields for 'Mykad', 'Age' (29 Years 02 Months 07 Days), 'Gender' (Female), 'MRN' (HPSF00093696), 'Address', 'Phone And Email', 'Diagnosis', and 'No known Allergies'. There are also fields for 'Height' (cm), 'Weight' (kg), 'BMI/BSA' (0/0 m²), and an 'Update' button. Below this, there is a section for 'Encounter No: 0283', 'Visit Date: 18/03/2016', 'Attending Practitioner', and 'Visit Location: KLINIK PAKAR PERUBATAN'. The 'Type Of MTAC' is 'Diabetes Mellitus' and the 'Number Of MTAC Visit' is '1'. The main section is titled 'ASSESSMENT' and contains a sub-section 'SPECIFIC DETAILS'. In this section, there is a button labeled 'Assessment Form For Diabetes Mellitus' which is highlighted with a red circle and the number '1'. Below this, there is a 'REPORTING' section.

Figure 3.2.3.2-1 Specific Details - Diabetes Mellitus

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details Assessment Form for Diabetes Mellitus.


STEP 1

Click on the  button to view the specific details



STEP 2



Select the check box to answer the question(s)

Note

- The questions are not mandatory to be answered
- Click on the  button to print the assessment form
- 'Diabetes Mellitus Assessment' as shown in Figure 3.2.3.2-2 will be used during MTAC counselling

DIABETES MELLITUS ASSESSMENT

1. Kencing manis (Diabetes Mellitus) adalah penyakit?

☐ Paras gula dalam darah tinggi

☐ Kolesterol dalam darah tinggi

☐ Tekanan Darah Tinggi

☐ Tidak pasti

2. Fungsi gula (glukosa) di dalam badan adalah untuk?

☐ Menghasilkan tenaga

☐ Menghasilkan Oksigen

☐ Membina tisu badan

☐ Tidak pasti

3. Penyakit kencing manis disebabkan oleh factor berikut?

☐ Berat badan berlebihan

☐ Insulin dalam badan tidak mencukupi atau resistant

☐ Sejarah keluarga

☐ Virus atau jangkitan kuman

☐ Tidak pasti

4. Yang manakah antara berikut tanda-tanda paras gula di dalam darah tinggi (Hiperglisemia)?

☐ Mulut kering dan dahaga

☐ Turun berat badan

☐ Kerap kencing

☐ Kabur penglihatan

☐ Lapar

5. Yang manakah antara berikut tanda-tanda paras gula di dalam darah rendah (Hipoglisemia)?

☐ Tangan menggigil

☐ Berpeluh sejuk

☐ Kerap kencing

☐ Lapar

☐ Leth dan tidak bertenaga

6. Paras gula didalam darah rendah juga boleh berlaku sekiranya anda?

☐ Bersenam keterlaluan

☐ Tidak makan selepas mengambil ubat

☐ Mengambil ubat atau insulin berlebihan

☐ Makan berlebihan

7. Jika anda mengalami tanda-tanda hipoglisemia, apa yang patut dilakukan?

☐ Minum jus atau ambil gula-gula

☐ Periksa paras gula menggunakan glucometer

☐ Baring dan rehat

☐ Suntik insulin

☐ Bersenam

8. Apakah komplikasi (kesan buruk) penyakit kencing manis?

☐ Penglihatan kabur / katarak

☐ Penyakit buah pinggang

☐ Penyakit jantung

☐ Penyakit saraf? kebas-kebas

☐ Strok

☐ Mudah dapat jangkitan kuman

☐ Ulser

9. Apakah nama ubat kencing manis yang anda ambil?

☐ Metformin (Glucophage)

☐ Gliclazide (Diamicon)

☐ Gliclazide MR (Diamicon MR)

☐ Glibenclamide

☐ Rosiglitazone (Avandia)

☐ Acarbose

☐ Repaglinide (Novonorm)

☐ Insulin _____

☐ Tidak pasti

10. Bagaimana cara anda mengambil ubat-ubatan berkenaan?

☐ 30 minit sebelum makan

☐ Bersama makanan

☐ Setelah selepas makan

☐ Sebelum makan

☐ Pada bila-bila masa

11. Adakah anda ada mengalami tanda-tanda berikut selepas mengambil ubat-ubatan kencing manis?

☐ Berat badan meningkat

☐ Kembang perut

☐ Loya / muntah

☐ Cirit-birit / sembelit

☐ Perut berasa pedih / tidak selesa

12. Sekiranya anda terlupa mengambil /makan ubat-ubatan kencing manis, apakah yang anda lakukan?

☐ Makan ubat sebaik teringat

☐ Lupakan saja dos yang tertinggal

☐ Gandakan dos ubat seterusnya

☐ Memeriksa paras gula dalam darah

13. Apakah sasaran? paras gula dalam darah yang perlu dicapai oleh setiap pesakit diabetes?

☐ HbA1c <7 %

☐ Plasma glukosa (puasa) 4.4 ? 6.1 mmol/L

☐ 2 jam selepas makan /rambang 4.4 ?8.0mmol/l

☐ Plasma Glukosa > 10.00mmol/l (puasa)

Sila jawab soalan berikut, sekiranya anda mengambil suntikan insulin?

14. Dimanakah anda menyimpan Stok insulin?

☐ Dalam peti sejuk beku (0u00EFu00BFu00BDC)

☐ Dalam peti sejuk (2 ?8 u00BAC)

☐ Atas peti sejuk

☐ Dalam almari

15. Dimanakah anda menyimpan Novopen /Humapen yang mengandungi insulin atau insulin yang sedang digunakan?

☐ Di dalam almari berkunci

☐ Di dalam peti sejuk

☐ Di dalam beg tangan

☐ Pada suhu bilik

16. Berapa kerap anda menukar jarum untuk suntikan insulin?

☐ Setiap kali digunakan


☐ Selepas 3 ?4 kali digunakan

☐ Sehingga jarum tumpul

☐ Sekali seminggu

Figure 3.2.3.2-2 Diabetes Mellitus Assessment

STEP 3

Click on the  button to save the answered question(s)

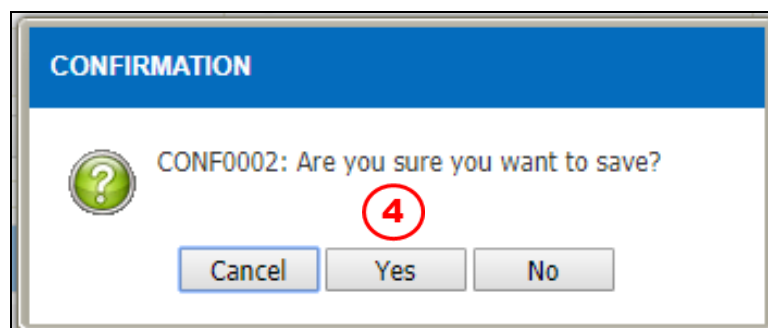


Figure 3.2.3.2-3 Confirmation Alert Message

STEP 4

Click on the  button to confirm save record

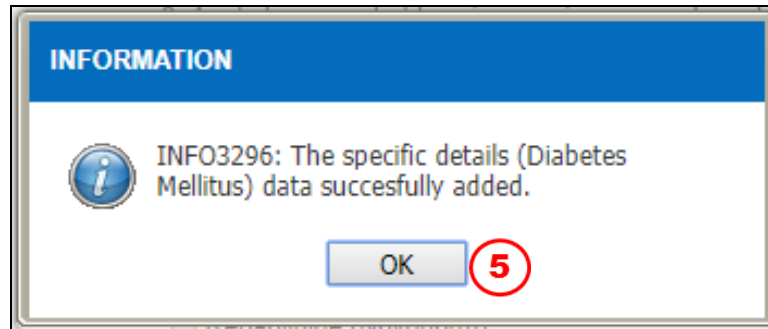



Figure 3.2.3.2-4 Information Alert Message

STEP 5

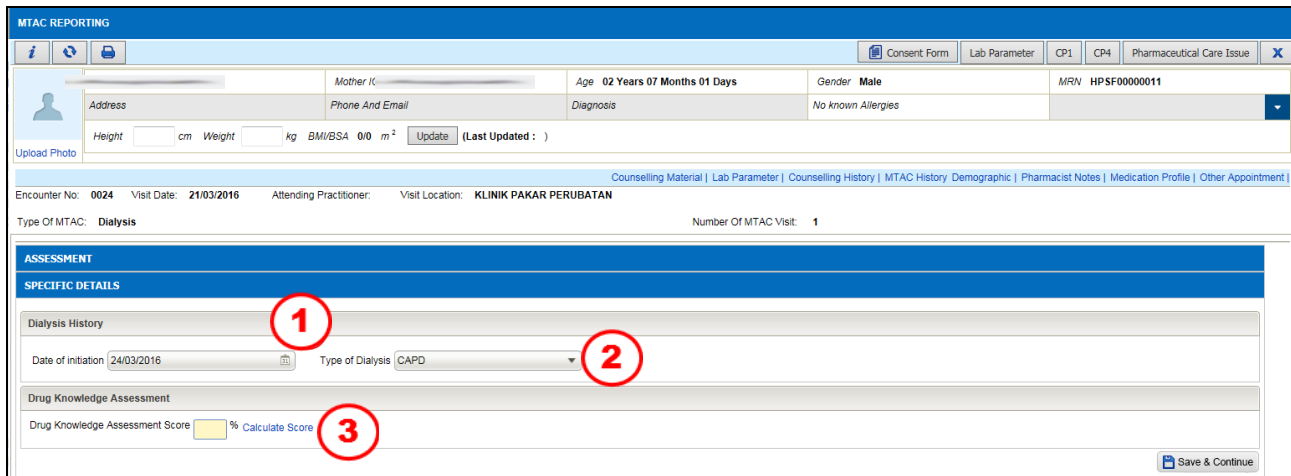
Click on the  button to confirm record

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.3 Dialysis

This function allows users to record Specific Details for Dialysis for MTAC patients



The screenshot shows the 'MTAC REPORTING' interface. At the top, there's a patient information section with fields for Address, Mother IC, Age (02 Years 07 Months 01 Days), Gender (Male), and MRN (HPSF00000011). Below this is a navigation bar with links like 'Consent Form', 'Lab Parameter', 'CP1', 'CP4', and 'Pharmaceutical Care Issue'. The main content area is titled 'ASSESSMENT' and contains a 'SPECIFIC DETAILS' section. This section has two sub-sections: 'Dialysis History' and 'Drug Knowledge Assessment'. In the 'Dialysis History' section, there's a 'Date of initiation' field (highlighted with a red circle 1) and a 'Type of Dialysis' dropdown menu (highlighted with a red circle 2). In the 'Drug Knowledge Assessment' section, there's a 'Drug Knowledge Assessment Score' field and a 'Calculate Score' button (highlighted with a red circle 3). A 'Save & Continue' button is located at the bottom right of the 'SPECIFIC DETAILS' section.


Figure 3.2.3.3-1 Specific Details - Dialysis

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Dialysis.

Dialysis History

STEP 1

Click on the  button to select **Date of initiation**

STEP 2

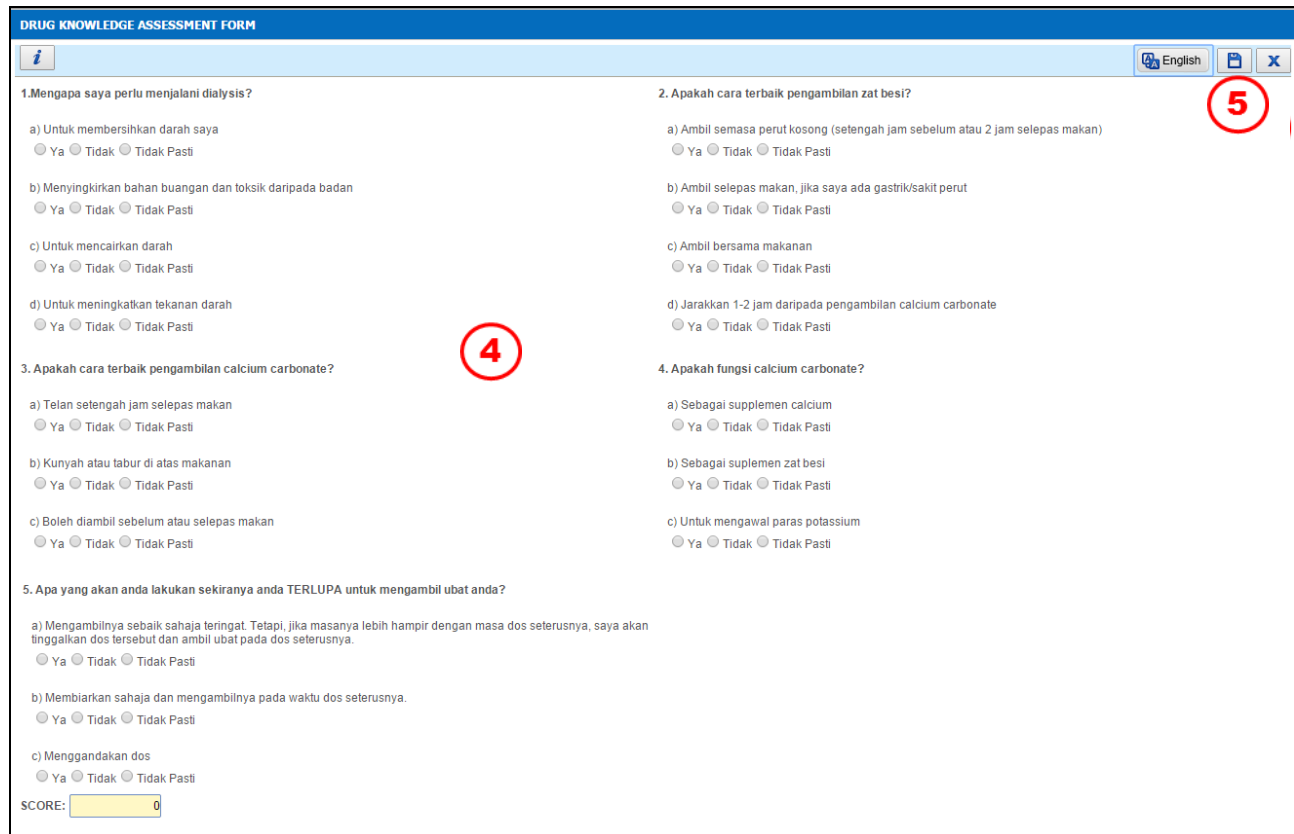
Select **Type of Dialysis** from the dropdown box

- APD
- CAPD
- HD

Drug Knowledge Assessment

STEP 3

Click on the [Calculate Score](#) and hyperlink '**Drug Knowledge Assessment Score** and '**Drug Knowledge Assessment Form**' window will be displayed as shown in Figure 3.2.3.3-2



DRUG KNOWLEDGE ASSESSMENT FORM

English

1. Mengapa saya perlu menjalani dialysis?

a) Untuk membersihkan darah saya
☐ Ya ☐ Tidak ☐ Tidak Pasti

b) Menyingkirkan bahan buangan dan toksik daripada badan
☐ Ya ☐ Tidak ☐ Tidak Pasti

c) Untuk mencairkan darah
☐ Ya ☐ Tidak ☐ Tidak Pasti

d) Untuk meningkatkan tekanan darah
☐ Ya ☐ Tidak ☐ Tidak Pasti

2. Apakah cara terbaik pengambilan zat besi?

a) Ambil semasa perut kosong (setengah jam sebelum atau 2 jam selepas makan)
☐ Ya ☐ Tidak ☐ Tidak Pasti

b) Ambil selepas makan, jika saya ada gastrik/sakit perut
☐ Ya ☐ Tidak ☐ Tidak Pasti

c) Ambil bersama makanan
☐ Ya ☐ Tidak ☐ Tidak Pasti

d) Jarakkan 1-2 jam daripada pengambilan calcium carbonate
☐ Ya ☐ Tidak ☐ Tidak Pasti

3. Apakah cara terbaik pengambilan calcium carbonate?

a) Telan setengah jam selepas makan
☐ Ya ☐ Tidak ☐ Tidak Pasti

b) Kunyah atau tabur di atas makanan
☐ Ya ☐ Tidak ☐ Tidak Pasti

c) Boleh diambil sebelum atau selepas makan
☐ Ya ☐ Tidak ☐ Tidak Pasti

4. Apakah fungsi calcium carbonate?

a) Sebagai suplemen calcium
☐ Ya ☐ Tidak ☐ Tidak Pasti

b) Sebagai suplemen zat besi
☐ Ya ☐ Tidak ☐ Tidak Pasti

c) Untuk mengawal paras potassium
☐ Ya ☐ Tidak ☐ Tidak Pasti

5. Apa yang akan anda lakukan sekiranya anda TERLUPA untuk mengambil ubat anda?

a) Mengambilnya sebaik sahaja teringat. Tetapi, jika masanya lebih hampir dengan masa dos seterusnya, saya akan tinggalkan dos tersebut dan ambil ubat pada dos seterusnya.
☐ Ya ☐ Tidak ☐ Tidak Pasti

b) Membiarkan sahaja dan mengambilnya pada waktu dos seterusnya.
☐ Ya ☐ Tidak ☐ Tidak Pasti

c) Menggandakan dos
☐ Ya ☐ Tidak ☐ Tidak Pasti

SCORE: 0


Figure 3.2.3.3-2 Specific Details - Dialysis

STEP 4


Answer the questions for **Drug Knowledge Assessment Form** by checking the radio button for below:

1. **Why do I have to do dialysis?**
2. **What is (are) the appropriate way(s) to take iron tablet?**
3. **What is (are) the appropriate way(s) to take calcium carbonate?**
4. **What is (are) function(s) of calcium carbonate?**
5. **What do you usually do when you missed a dose(s)?**

Note

- The questions are not mandatory to be answered.
- Click on the  button to view the questions in Malay language
- Score will be automatically calculated and automatically displayed

STEP 5

Click on the  button to save the answered questions(s)

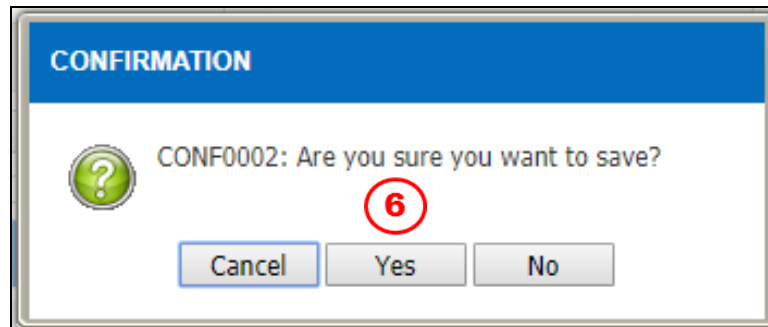



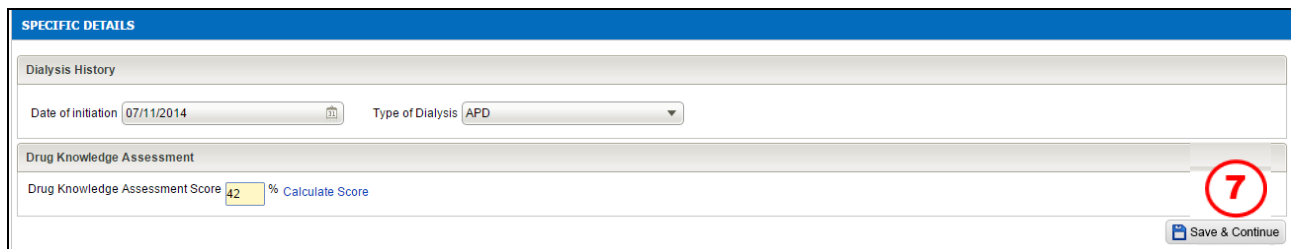
Figure 3.2.3.3-3 Confirmation Alert Message

STEP 6

Click on the  button to confirm save record

STEP 7

Click on the  button as shown in Figure 3.2.3.3-1 to save and continue with reporting section



A form titled "SPECIFIC DETAILS" with a blue header. It contains two sections: "Dialysis History" and "Drug Knowledge Assessment". The "Dialysis History" section has a "Date of Initiation" field with the value "07/11/2014" and a "Type of Dialysis" dropdown menu with the value "APD". The "Drug Knowledge Assessment" section has a "Drug Knowledge Assessment Score" field with the value "42" and a "Calculate Score" button. The "Save & Continue" button at the bottom right is circled in red with the number 7.

STEP 8

Click on the  button to confirm save record

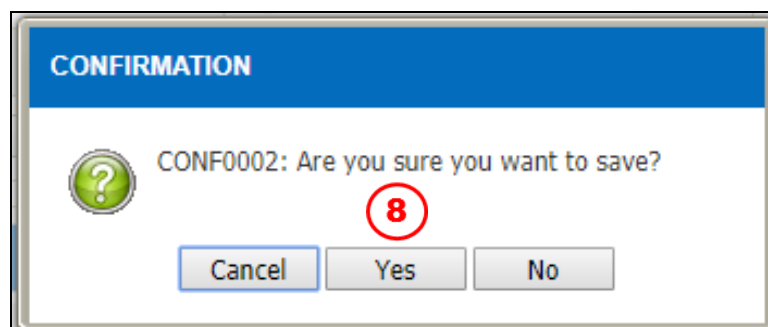



Figure 3.2.3.3-4 Confirmation Alert Message

STEP 9

Click on the  button to confirm record

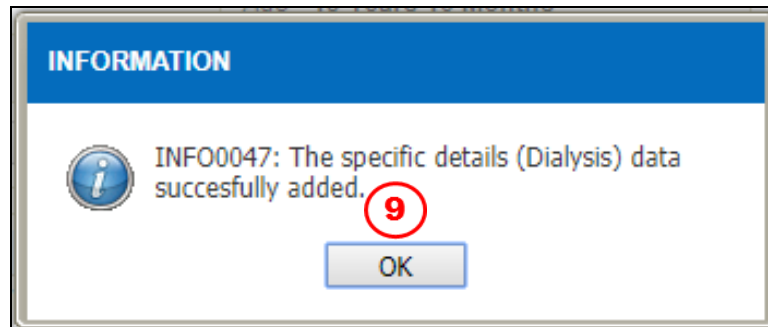


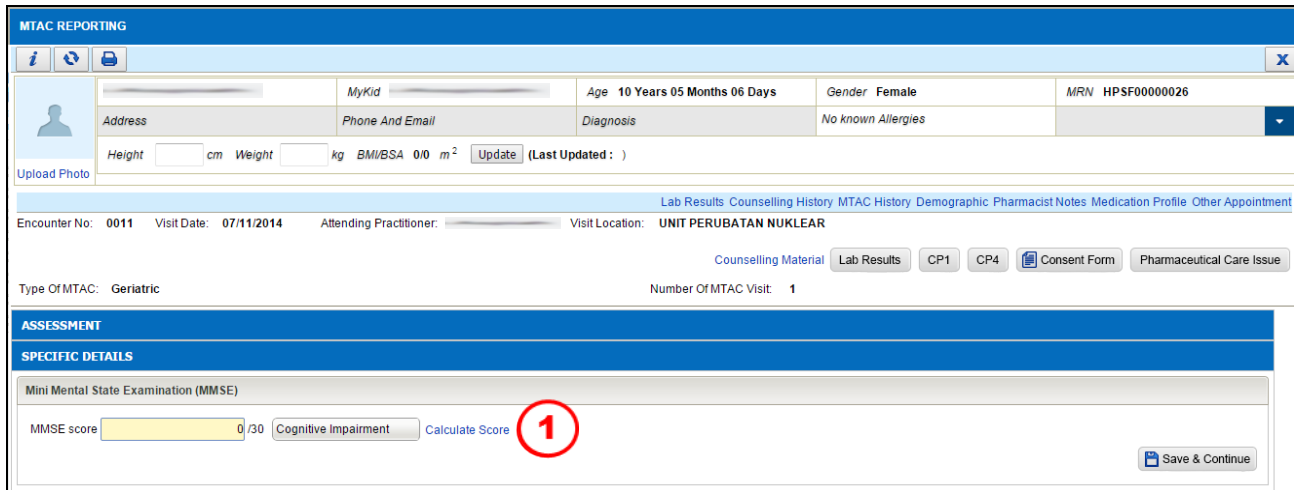
Figure 3.2.3.3-5 Information alert message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.4 Geriatric

This function allows users to record Specific Details for Geriatric for MTAC patients



The screenshot shows the 'MTAC REPORTING' window. At the top, there's a patient information section with fields for MyKid, Age (10 Years 05 Months 06 Days), Gender (Female), and MRN (HPSF00000026). Below this is a section for Address, Phone And Email, Diagnosis, and No known Allergies. There are also fields for Height, Weight, BMI/BSA, and an 'Update' button. A 'Lab Results' tab is selected, showing 'Counselling History', 'MTAC History', 'Demographic', 'Pharmacist Notes', 'Medication Profile', and 'Other Appointment'. The 'Type Of MTAC' is set to 'Geriatric' and the 'Number Of MTAC Visit' is 1. The 'ASSESSMENT' section is expanded, showing 'SPECIFIC DETAILS' for the 'Mini Mental State Examination (MMSE)'. The 'MMSE score' is 0/30, and the 'Calculate Score' link is highlighted with a red circle and the number 1. A 'Save & Continue' button is at the bottom right.

Figure 3.2.3.4-1 Specific Details - Geriatric

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Geriatric.

STEP 1

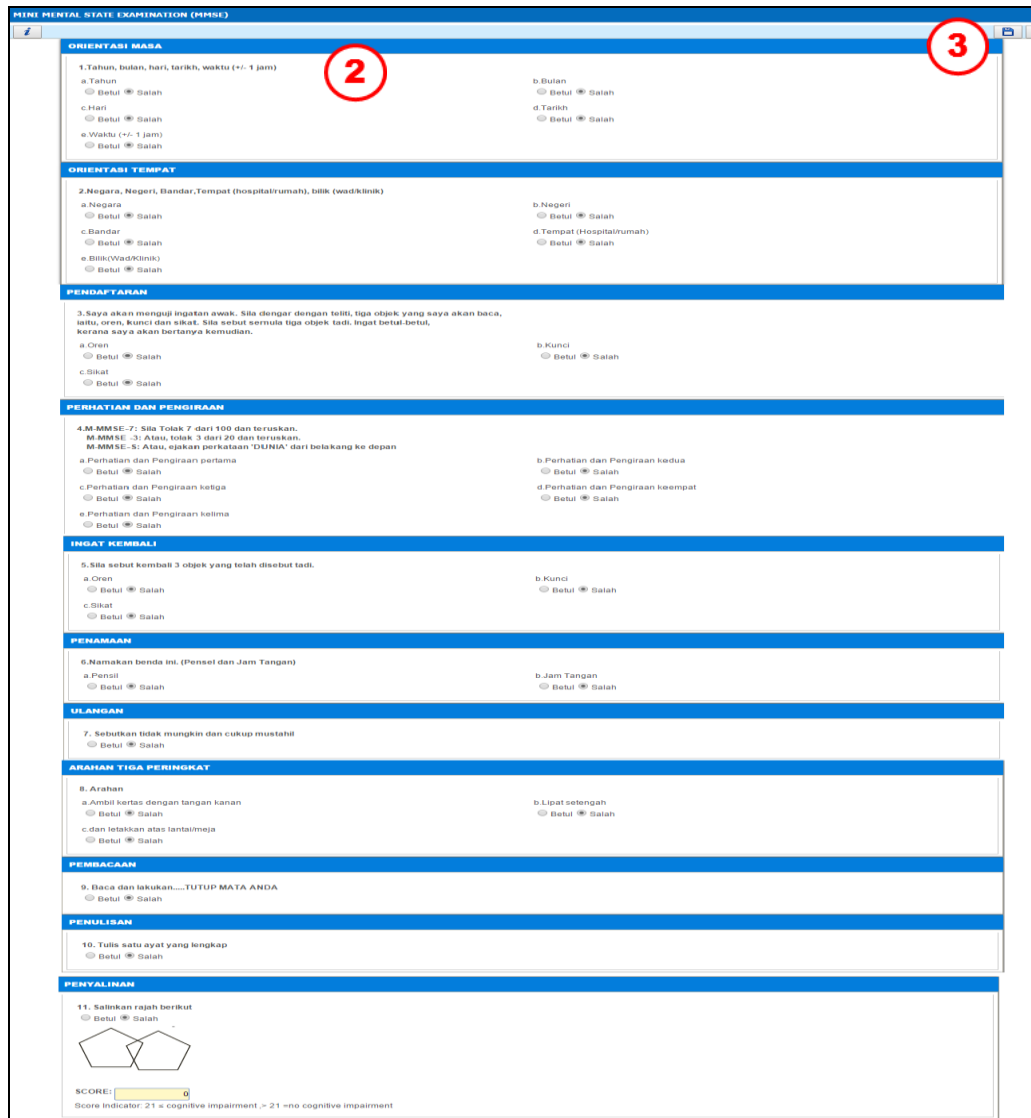
Click on the [Calculate Score](#) hyperlink for **MMSE Score** and 'Mini Mental State Examination (MMSE) – Orientasi Masa' window will be displayed as shown in Figure 3.2.3.4-2

STEP 2

Answer questions in **Mini Mental State Examination (MMSE)** by selecting radio button as shown in Figure 3.2.3.4-2

Note

- The questions are not mandatory to be answered.
- Score will be automatically calculated and automatically displayed.



MINI MENTAL STATE EXAMINATION (MMSE)

ORIENTASI MASA

1. Tahun, bulan, hari, tarikh, waktu (+/- 1 jam)

a. Tahun
☐ Betul ☐ Salah

b. Bulan
☐ Betul ☐ Salah

c. Hari
☐ Betul ☐ Salah

d. Tarikh
☐ Betul ☐ Salah

e. Waktu (+/- 1 jam)
☐ Betul ☐ Salah

ORIENTASI TEMPAT

2. Negara, Negeri, Bandar, Tempat (hospital/umah), bilik (ward/klinc)

a. Negara
☐ Betul ☐ Salah

b. Negeri
☐ Betul ☐ Salah

c. Bandar
☐ Betul ☐ Salah

d. Tempat (Hospital/umah)
☐ Betul ☐ Salah

e. Bilik (Vad/Klinc)
☐ Betul ☐ Salah

PENDAFTARAN

3. Saya akan menguji ingatan awak. Sila dengar dengan teliti, tiga objek yang saya akan baca, tulis, oron, kunci dan sikat. Sila sebut semula tiga objek tadi. Ingat betul betul kerana saya akan bertanya kemudian.

a. Oren
☐ Betul ☐ Salah

b. Kunci
☐ Betul ☐ Salah

c. Sikat
☐ Betul ☐ Salah

PERHATIAN DAN PENGIRAAN

4. MMSE-7: Sila Tolak 7 dari 100 dan teruskan.
M-MMSE-3: Atau, tolak 3 dari 20 dan teruskan.
M-MMSE-5: Atau, ejakan perkataan "DUNIA" dari belakang ke depan

a. Perhatian dan Pengiraan pertama
☐ Betul ☐ Salah

b. Perhatian dan Pengiraan kedua
☐ Betul ☐ Salah

c. Perhatian dan Pengiraan ketiga
☐ Betul ☐ Salah

d. Perhatian dan Pengiraan keempat
☐ Betul ☐ Salah

e. Perhatian dan Pengiraan kelima
☐ Betul ☐ Salah

INGAT KEMBALI

5. Sila sebut kembali 3 objek yang telah disebut tadi.

a. Oren
☐ Betul ☐ Salah

b. Kunci
☐ Betul ☐ Salah

c. Sikat
☐ Betul ☐ Salah

PENAMAAN

6. Namakan benda ini. (Pensel dan Jam Tangan)

a. Pensel
☐ Betul ☐ Salah

b. Jam Tangan
☐ Betul ☐ Salah

ULANGAN

7. Sebutkan tidak mungkin dan cukup mustahil

☐ Betul ☐ Salah

ARAHAN TIGA PERINGKAT

8. Arahan

a. Ambil kertas dengan tangan kanan
☐ Betul ☐ Salah

b. Lipat setengah
☐ Betul ☐ Salah

c. dan letakkan atas lantai/meja
☐ Betul ☐ Salah

PEMBACAAN

9. Baca dan lakukan.....TUTUP MATA ANDA

☐ Betul ☐ Salah

PENULISAN

10. Tulis satu ayat yang lengkap

☐ Betul ☐ Salah

PENYALINAN

11. Salinkan rajah berikut


☐ Betul ☐ Salah

SCORE:

Score Indicator: 21 = cognitive impairment > 21 = no cognitive impairment

Figure 3.2.3.4-2 Mini Mental State Examination (MMSE)

STEP 3

Click on the  button to save the answered questions(s)

STEP 4

Click on the  button to confirm save record

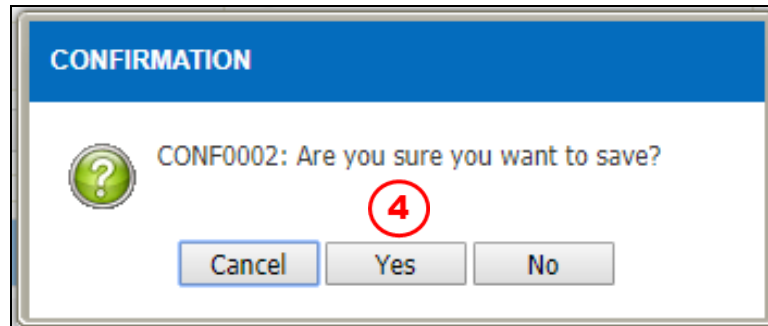
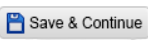
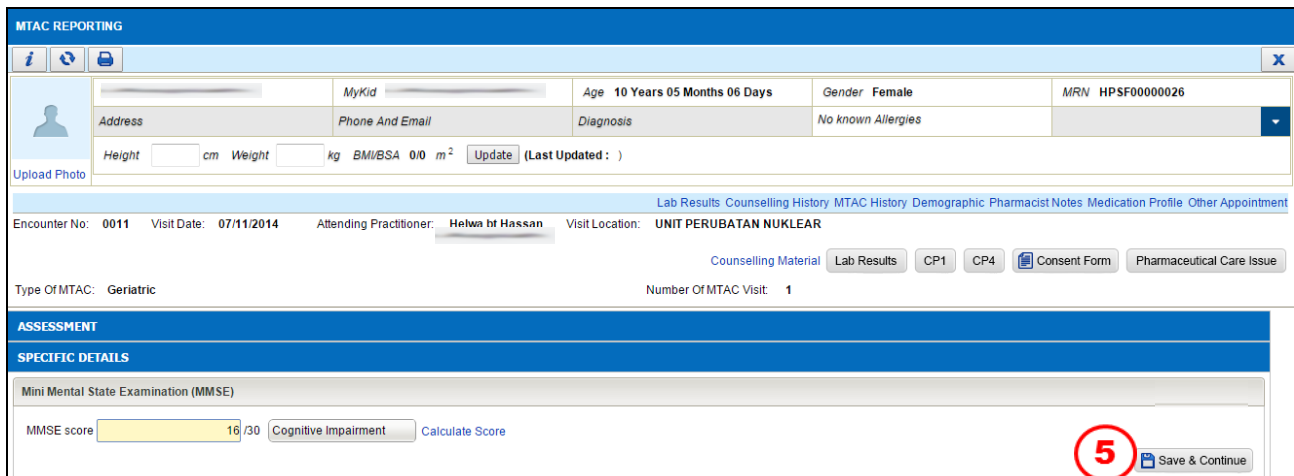


Figure 3.2.3.4-3 Confirmation Alert Message

STEP 5

Click on the  button as shown in Figure 3.2.3.4-1 to save and continue with reporting section



MTAC REPORTING

MyKid: [Name] Age: 10 Years 05 Months 06 Days Gender: Female MRN: HPSF00000026

Address: [Address] Phone And Email: [Phone And Email] Diagnosis: No known Allergies

Height: [Height] cm Weight: [Weight] kg BMI/BSA: 0/0 m² Update (Last Updated:)

Upload Photo

Lab Results Counselling History MTAC History Demographic Pharmacist Notes Medication Profile Other Appointment

Encounter No: 0011 Visit Date: 07/11/2014 Attending Practitioner: Helwa bt Hassan Visit Location: UNIT PERUBATAN NUKLEAR

Counselling Material Lab Results CP1 CP4 Consent Form Pharmaceutical Care Issue

Type Of MTAC: Geriatric Number Of MTAC Visit: 1

ASSESSMENT

SPECIFIC DETAILS

Mini Mental State Examination (MMSE)

MMSE score: 16/30 Cognitive Impairment Calculate Score




Figure 3.2.3.4-4 Specific Details - Geriatric

STEP 6

Click on the  button to confirm save record

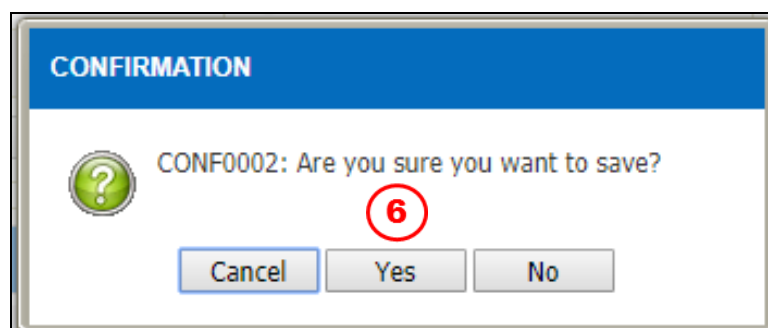


Figure 3.2.3.4-5 Confirmation Alert Message

STEP 7

Click on the  button to confirm record

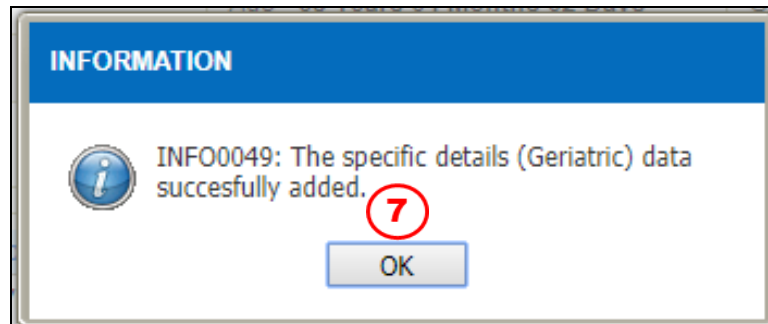


Figure 3.2.3.4-6 Information alert message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.5 Heart Failure

This function allow user to record Specific Details for Heart Failure for MTAC patient.

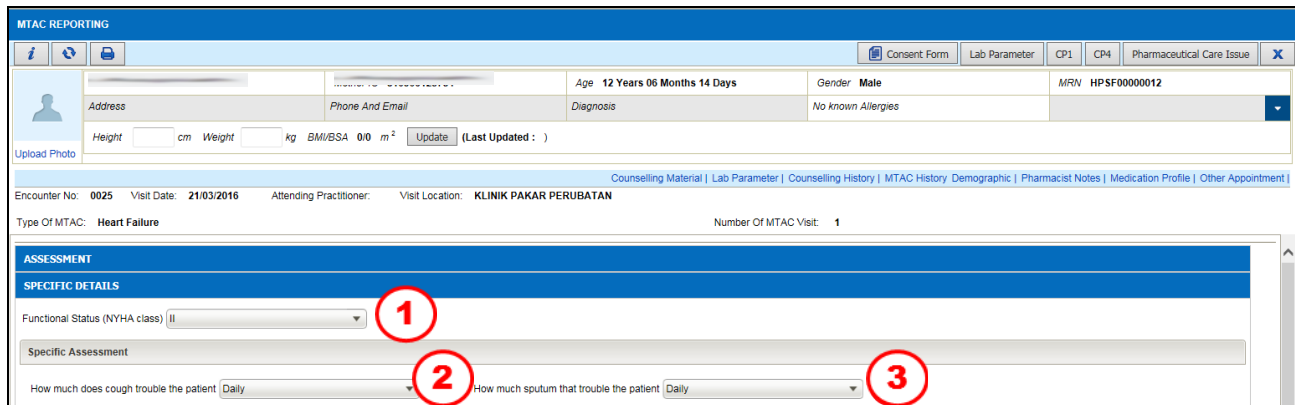


Figure 3.2.3.5 Specific Details - Heart Failure

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Heart Failure

STEP 1

Select **Functional Status (NYHA class)** from the drop down box

- I
- II
- III
- IV

Specific Assessment

STEP 2

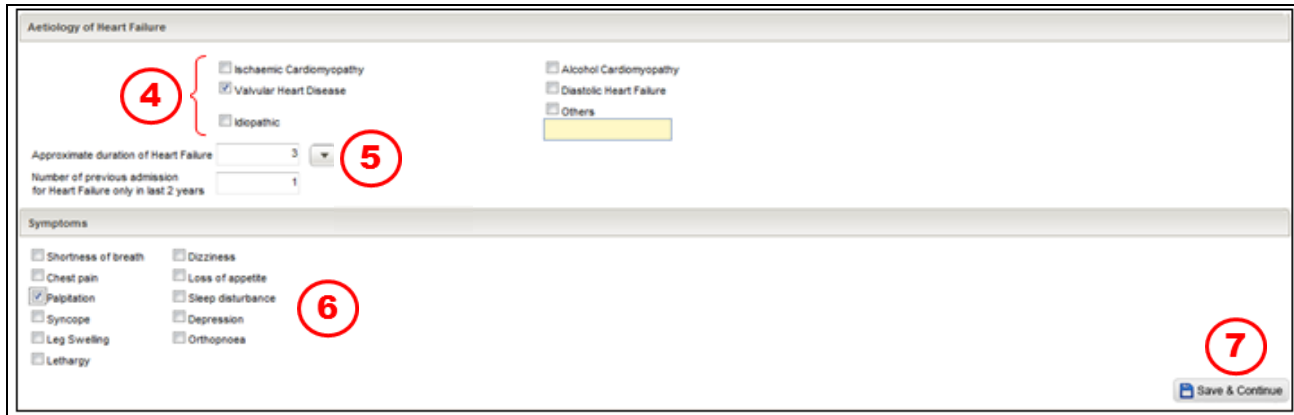
Select **How much does cough trouble the patient** from the drop down box

- Not Present
- Few Days/Month
- Few Days/Week
- Daily

STEP 3

Select **How much sputum that trouble the patient** from the drop down box

- Not Present
- Few Days/Month
- Few Days/Week
- Daily



The screenshot shows a web form titled 'Aetiology of Heart Failure'. It contains several sections:

- Aetiology of Heart Failure:** A group of checkboxes for 'Ischaemic Cardiomyopathy', 'Valvular Heart Disease', 'Idiopathic', 'Alcohol Cardiomyopathy', 'Diastolic Heart Failure', and 'Others'. A red circle with the number 4 is placed over the first three checkboxes.
- Approximate duration of Heart Failure:** A text input field followed by a dropdown menu. A red circle with the number 5 is placed over the dropdown menu.
- Number of previous admission for Heart Failure only in last 2 years:** A text input field.
- Symptoms:** A group of checkboxes for 'Shortness of breath', 'Chest pain', 'Palpitation', 'Syncope', 'Leg Swelling', 'Lethargy', 'Dizziness', 'Loss of appetite', 'Sleep disturbance', 'Depression', and 'Orthopnoea'. A red circle with the number 6 is placed over the 'Sleep disturbance' checkbox.
- Save & Continue:** A button at the bottom right. A red circle with the number 7 is placed over this button.

Figure 3.2.3.5-2 Specific details - Heart Failure

STEP 4

Select the check box for **Aetiology of Heart Failure** as below:

- Ischaemic Cardiomyopathy
- Valvular Heart Disease
- Idiopathic
- Alcohol Cardiomyopathy
- Diastolic Hear Failure
- Others

Note

Blank fields will be enabled only if user selects 'Others' from the check box

STEP 5

Enter **Approximate duration of Heart Failure** and select from the drop down box

- Months
- Years

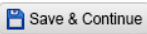
STEP 6

Select the check box for **Symptoms** as below:

- Shortness of breath
- Chest pain
- Palpitation
- Syncope
- Leg Swelling
- Lethargy
- Dizziness
- Loss of appetite

- Sleep disturbance
- Depression
- Orthopnea

STEP 7

Click on the  button as shown in Figure 3.2.3.5-1 to save and continue with reporting section

STEP 8

Click on the  button to confirm save record

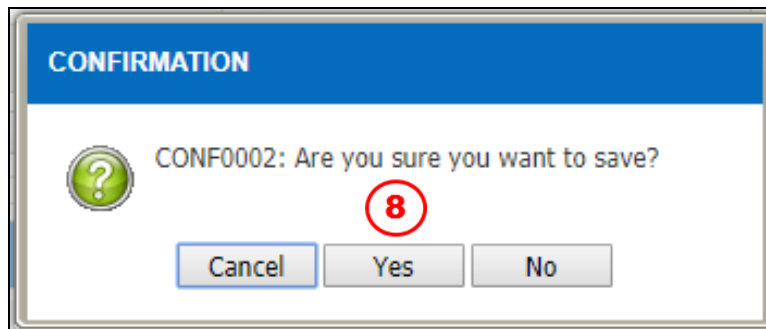



Figure 3.2.3.5-3 Confirmation Alert Message

STEP 9

Click on the  button to confirm record

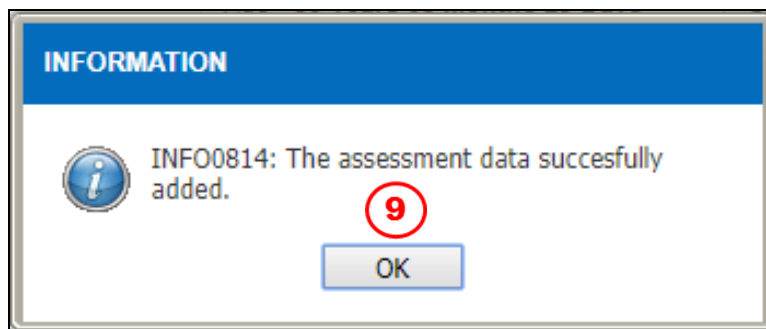


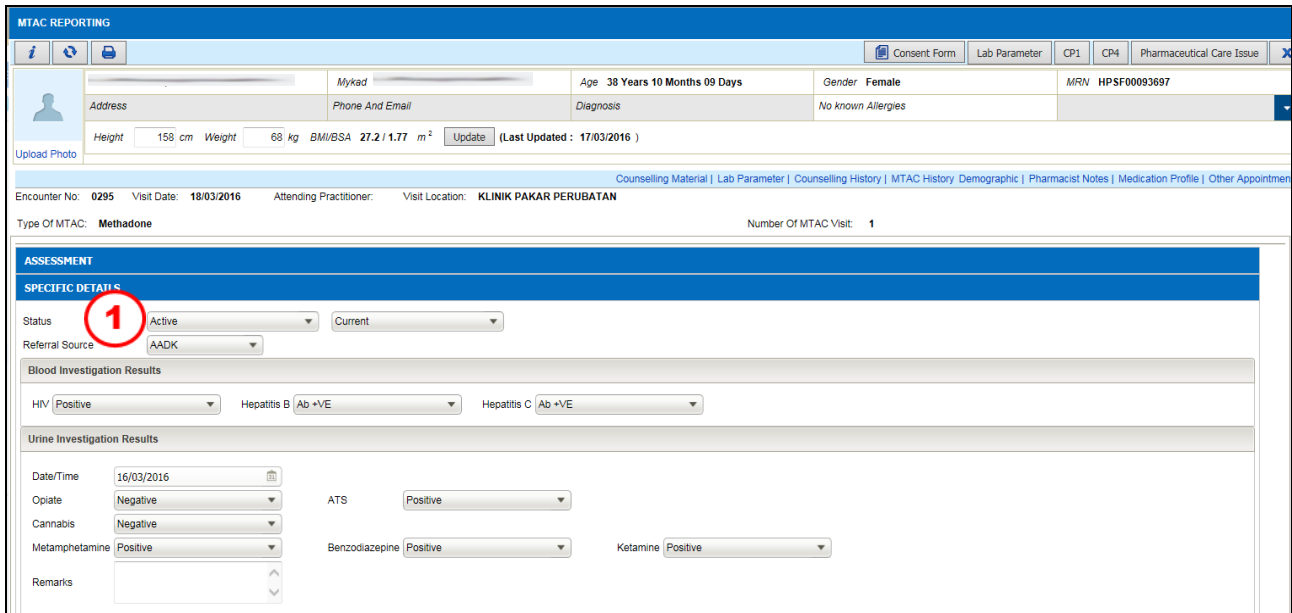
Figure 3.2.3.5-4 Information Alert Message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details

3.2.3.6 Methadone

This function allow user to record Specific Details for Methadone for MTAC patient



The screenshot shows the 'MTAC REPORTING' interface. At the top, there are tabs for 'Consent Form', 'Lab Parameter', 'CP1', 'CP4', and 'Pharmaceutical Care Issue'. Below these, patient information is displayed: Mykad, Age (38 Years 10 Months 09 Days), Gender (Female), MRN (HPSF00093697), Address, Phone And Email, Diagnosis, and No known Allergies. Patient vitals include Height (158 cm), Weight (68 kg), BMI/BSA (27.2 / 1.77 m²), and an 'Update' button. The 'Type Of MTAC' is set to 'Methadone' and the 'Number Of MTAC Visit' is '1'. The 'ASSESSMENT' section is expanded, showing 'SPECIFIC DETAILS'. In this section, the 'Status' dropdown is highlighted with a red circle and the number 1, and is currently set to 'Active'. Other dropdowns include 'Referral Source' (AADK), 'Blood Investigation Results' (HIV: Positive, Hepatitis B: Ab +VE, Hepatitis C: Ab +VE), and 'Urine Investigation Results' (Opiate: Negative, Cannabis: Negative, Metamphetamine: Positive, ATS: Positive, Benzodiazepine: Positive, Ketamine: Positive). A 'Remarks' field is also present.

Figure 3.2.3.6-1 Specific Details - Methadone

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Methadone.

STEP 1

Select **Status** from the drop down box

- Active
- Inactive
- Current
- Re-entry
- Transfer

Select **Referral Source** from the drop down box

- AADK
- NGO
- NSEP
- Others
- Walk In

Note

Blank field will be enabled if user select **Other** from the **Referral Source** drop down box.

Blood Investigation Results

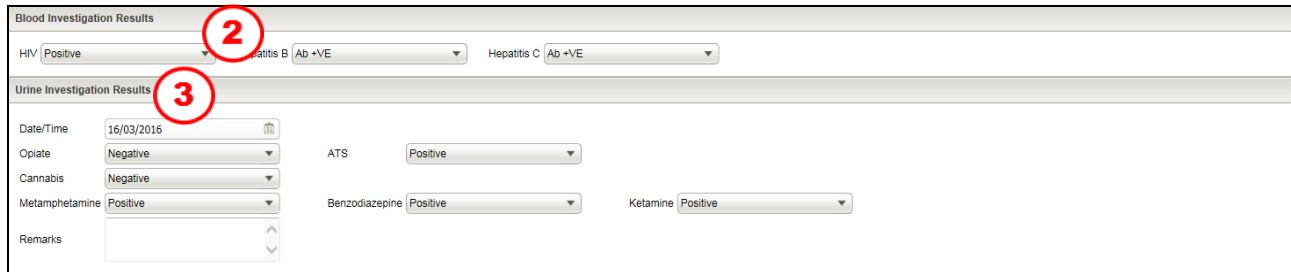


Figure 3.2.3.6-2 Specific Details – Methadone

STEP 2

Select **HIV** from the drop down box

- Negative
- Positive
- Unknown

Select **Hepatitis B** from the drop down box:


- Ab +VE
- Ab –VE
- Ag +VE
- Non-Reactive
- Unknown

Select **Hepatitis C** from the drop down box:

- Ab +VE
- Ab –VE
- Non-Reactive
- Unknown

Urine Investigation Results

STEP 3

Click on the  button to select *sample Date/Time*.

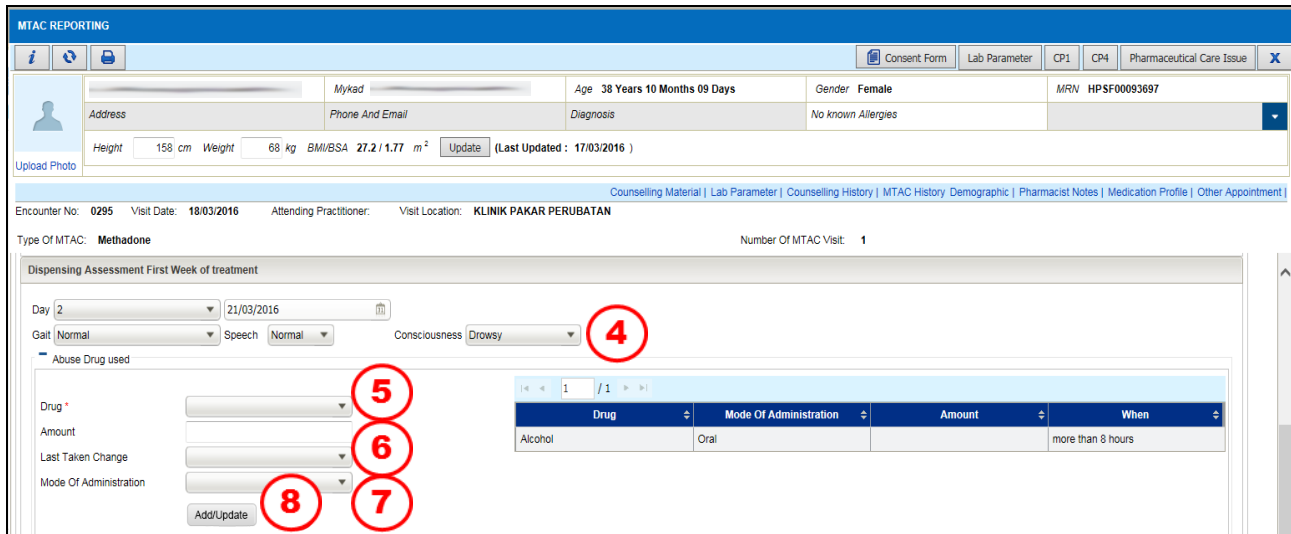
Select **Opiate**, **ATS**, **Cannabis**, **Methamphetamine**, **Benzodiazepine**, and **Ketamine** from the drop down box

- Negative
- Positive

Note

Enter **Remarks** if necessary

Dispensing Assessment First Week of Treatment



MTAC REPORTING

Consent Form | Lab Parameter | CP1 | CP4 | Pharmaceutical Care Issue

Mykad: [Blank] Age: 38 Years 10 Months 09 Days Gender: Female MRN: HPSF00093697

Address: [Blank] Phone And Email: [Blank] Diagnosis: [Blank] No known Allergies

Height: 158 cm Weight: 68 kg BMI/BSA: 27.2 / 1.77 m² Update (Last Updated : 17/03/2016)

Encounter No: 0295 Visit Date: 18/03/2016 Attending Practitioner: [Blank] Visit Location: KLINIK PAKAR PERUBATAN

Type Of MTAC: Methadone Number Of MTAC Visit: 1

Dispensing Assessment First Week of treatment

Day: 2 21/03/2016

Gait: Normal Speech: Normal Consciousness: Drowsy

Abuse Drug used


Drug: [Blank] Amount: [Blank] Last Taken Change: [Blank] Mode Of Administration: [Blank]

Add/Update

Drug	Mode Of Administration	Amount	When
Alcohol	Oral		more than 8 hours

Figure 3.2.3.6-3 Specific Details – Methadone

STEP 4

Select **Day** from the drop down box and click on the  button to select date

Select **Gait** from the drop down box

- Impaired
- Normal

Select **Speech** from the drop down box

- Normal
- Pressured
- Slurred

Select **Consciousness** from the drop down box

- Agitated
- Alert
- Drowsy

Abuse Drug used

STEP 5

Select **Drug** from the drop down box

- ATS
- Alcohol
- Benzodiazepine
- Cannabis
- Mitragynine (Air Ketum)
- Opiate
- Others

Note

Enter **Amount** of drug

STEP 6

Select **Last Taken Change** from the drop down box


- Past 1 hour
- Past 2 hours
- Past 3 hours
- Past 4 hours
- Past 5 hours
- Past 6 hours
- Past 7 hours
- Past 8 hours
- More than 8 hours

STEP 7

Select **Mode of Administration** from the drop down button

- Oral
- Others (please specify)
- Inhale/Snort/Smoke
- Injection

STEP 8

Click on the  button to add drug information on the list.


Evidence of withdrawal 9 <input checked="" type="checkbox"/> Runny nose <input type="checkbox"/> Dilated pupils <input checked="" type="checkbox"/> Nausea <input type="checkbox"/> Vomiting <input type="checkbox"/> Diarrhoea <input type="checkbox"/> Cramps <input type="checkbox"/> Others (can be list more than one)	Evidence of intoxication 10 <input type="checkbox"/> Pin point pupils <input checked="" type="checkbox"/> Heavy eyelids <input type="checkbox"/> Glassy or red eyes <input type="checkbox"/> Smell alcohol <input type="checkbox"/> Unsteady movements <input type="checkbox"/> Others (can be list more than one)	Pharmacist remarks on current dose 11 Too High 
--	--	---

Figure 3.2.3.6-4 Specific Details – Methadone

STEP 9

Select **Evidence of withdrawal** from the drop down box

- Runny nose
- Dilated pupils
- Nausea and/or vomiting
- Diarrhoea
- Cramps
- Others

STEP 10

Select **Evidence of intoxication** from the drop down box

- Pin point pupils
- Heavy eyelids
- Glassy or red eyes
- Smell alcohol
- Unsteady movements
- Others

Note

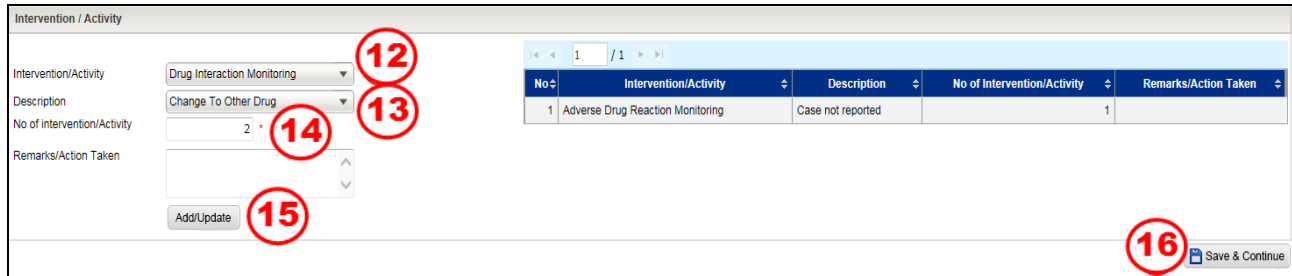
Blank fields will be enabled if user selects 'Other' from the drop down box of Evidence of withdrawal and Evidence of intoxication.

STEP 11

Select **Pharmacist remarks on current dose** from the drop down box

- Sufficient
- Too High
- Too Low

Intervention / Activity



The screenshot shows the 'Intervention / Activity' form. On the left, there are dropdown menus for 'Intervention/Activity' (labeled 12) and 'Description' (labeled 13). Below these is a text input for 'No of Intervention/Activity' (labeled 14) containing the number '2'. A text area for 'Remarks/Action Taken' is below that, with an 'Add/Update' button (labeled 15) underneath. On the right, a table displays the data. The table has columns: 'No', 'Intervention/Activity', 'Description', 'No of Intervention/Activity', and 'Remarks/Action Taken'. It contains one row with '1', 'Adverse Drug Reaction Monitoring', 'Case not reported', and '1'. At the bottom right, there is a 'Save & Continue' button (labeled 16).

No	Intervention/Activity	Description	No of Intervention/Activity	Remarks/Action Taken
1	Adverse Drug Reaction Monitoring	Case not reported	1	

Figure 3.2.3.6-5 Specific Details – Methadone

STEP 12

Select **Intervention / Activity** from the drop down box

- Adverse Drug Reaction Monitoring
- Drug Information
- Drug Interaction Monitoring
- Methadone Dose Modification
- Type of side affect

STEP 13

Select **Description** from the drop down box

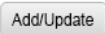
STEP 14

Enter **No of Intervention/Activity**

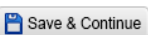
Note

Description will be according to the Intervention/Activity selected from the drop down box

STEP 15

Click on the  button to add drug information on the list

STEP 16

Click on the  button to save and continue with reporting record

STEP 17

Click on the  button to confirm save order

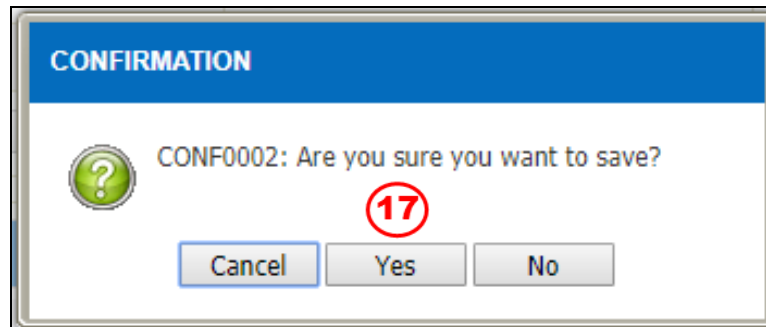


Figure 3.2.3.6-6 Confirmation Alert Message

STEP 18

Click on the  button to add record

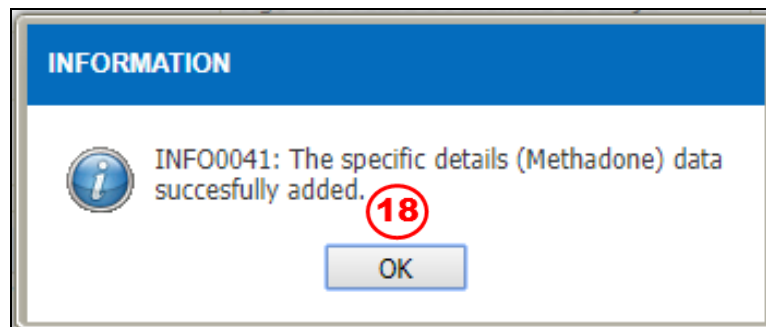


Figure 3.2.3.6-7 Information Alert Message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.7 Renal Transplant

This function allow user to record Specific Details for Renal Transplant for MTAC patient.

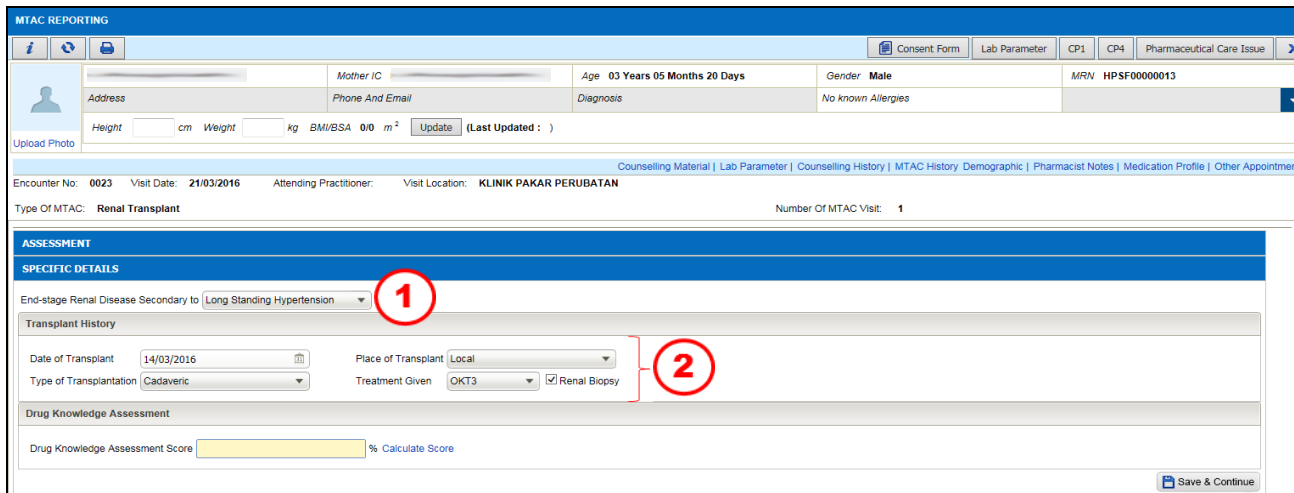


Figure 3.2.3.7-1 Specific Details - Renal Transplant

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Renal Transplant.


STEP 1

Select **End-stage Renal Disease Secondary to** from the drop down box

- Long Standing Hypertension
- Diabetic Nephropathy
- Lupus Nephritis
- Unknown

Transplant History

STEP 2

Click on the  button to select **Date of Transplant**

Select **Type of Transplantation** from the drop down box

- Cadaveric
- Living Non Related
- Living Related

Select **Place of Transplant** from the drop down box

- Local
- Overseas

Select **Treatment Given** from the drop down box

- Simulect
- OKT3
- Anti-Thymocyte

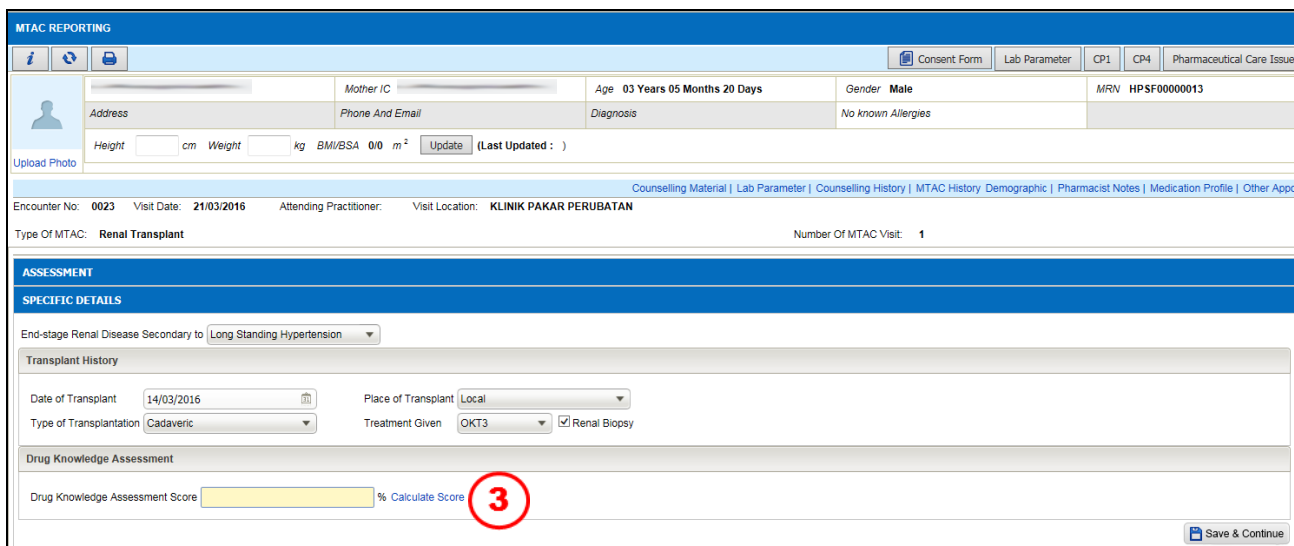
Note

User can check on the **Renal Biopsy** check box.

Drug Knowledge Assessment

STEP 3

Click on the [Calculate Score](#) hyperlink for **Drug Knowledge Assessment Score** and the 'Review of Patient's Understanding (Medication) DFIT' window will be displayed as shown in Figure 3.2.3.7-2




The screenshot displays the MTAC Reporting interface. The top section includes patient information such as Address, Mother IC, Age (03 Years 05 Months 20 Days), Gender (Male), and MRN (HPSF00000013). Below this, the 'ASSESSMENT' section is visible, with 'SPECIFIC DETAILS' expanded. Under 'SPECIFIC DETAILS', the 'Transplant History' section shows 'End-stage Renal Disease Secondary to Long Standing Hypertension'. The 'Transplant History' section includes fields for Date of Transplant (14/03/2016), Place of Transplant (Local), Type of Transplantation (Cadaveric), Treatment Given (OKT3), and a checked box for Renal Biopsy. The 'Drug Knowledge Assessment' section is at the bottom, featuring a 'Drug Knowledge Assessment Score' field and a '% Calculate Score' button, which is circled in red with the number 3.

Figure 3.2.3.7-2 Specific Details - Renal Transplant

STEP 4

Answer all questionnaire in the **Review of Patient's Understanding** window by selecting the radio button to answer every questions

Note

- Click on the  button to view in Malay language.
- Score will be automatically calculated and automatically displayed

STEP 5

Click on the  button to save record

REVIEW OF PATIENT'S UNDERSTANDING (MEDICATION) DFIT

Malay
Print
Close

1. What does immunosuppressant medicines means?

a) Medicines that lowers the body immune system
☐ Yes ☐ No ☐ Not Sure

b) Medicines that prevent rejection of the transplanted organ
☐ Yes ☐ No ☐ Not Sure

c) Medicines that promotes graft cell production
☐ Yes ☐ No ☐ Not Sure

3. How do I take immunosuppressant?

a) After meal
☐ Yes ☐ No ☐ Not Sure

b) Before meal
☐ Yes ☐ No ☐ Not Sure

c) Chew/Swallow with food
☐ Yes ☐ No ☐ Not Sure

5. Why do you have to do regular blood tests while on immunosuppressant treatment?

a) To check the presence of infections
☐ Yes ☐ No ☐ Not Sure

b) To check the function of the transplanted organ
☐ Yes ☐ No ☐ Not Sure

c) To check the concentration of immunosuppressant in the blood
☐ Yes ☐ No ☐ Not Sure

7. What to do if you have any side effects while taking immunosuppressant?

a) Stop taking without notify the doctor/pharmacist
☐ Yes ☐ No ☐ Not Sure

b) Stop take it and consult doctor immediately
☐ Yes ☐ No ☐ Not Sure

c) Take another medication to resolve it without notify the doctor/pharmacist
☐ Yes ☐ No ☐ Not Sure

2. Why do you have to take immunosuppressant?

a) To protect myself from infections
☐ Yes ☐ No ☐ Not Sure

b) To prevent rejection of my newly transplanted organ
☐ Yes ☐ No ☐ Not Sure

c) To prolong the life of my newly transplanted organ
☐ Yes ☐ No ☐ Not Sure

4. What is the correct way to keep your immunosuppressant?

a) Keep in fridge
☐ Yes ☐ No ☐ Not Sure

b) Keep in a car for a long time
☐ Yes ☐ No ☐ Not Sure

c) Keep in an airtight container, at a dry place away from direct sunlight
☐ Yes ☐ No ☐ Not Sure

6. What do you usually do when you MISSED a dose(s) of your immunosuppressant?

a) I will take it as soon as I remember. But, if its time for the next dose, I will omit the missed dose and continue with next scheduled dose
☐ Yes ☐ No ☐ Not Sure

b) Leave it out and continue with the next scheduled dose
☐ Yes ☐ No ☐ Not Sure

c) Accumulate the missed dose together with the next dose
☐ Yes ☐ No ☐ Not Sure

8. What to do if you want to take supplement and traditional medication while taking immunosuppressant?

a) Notify doctor/pharmacist before taking it
☐ Yes ☐ No ☐ Not Sure

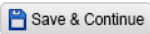
b) Take it together with immunosuppressant without notify doctor /pharmacist
☐ Yes ☐ No ☐ Not Sure

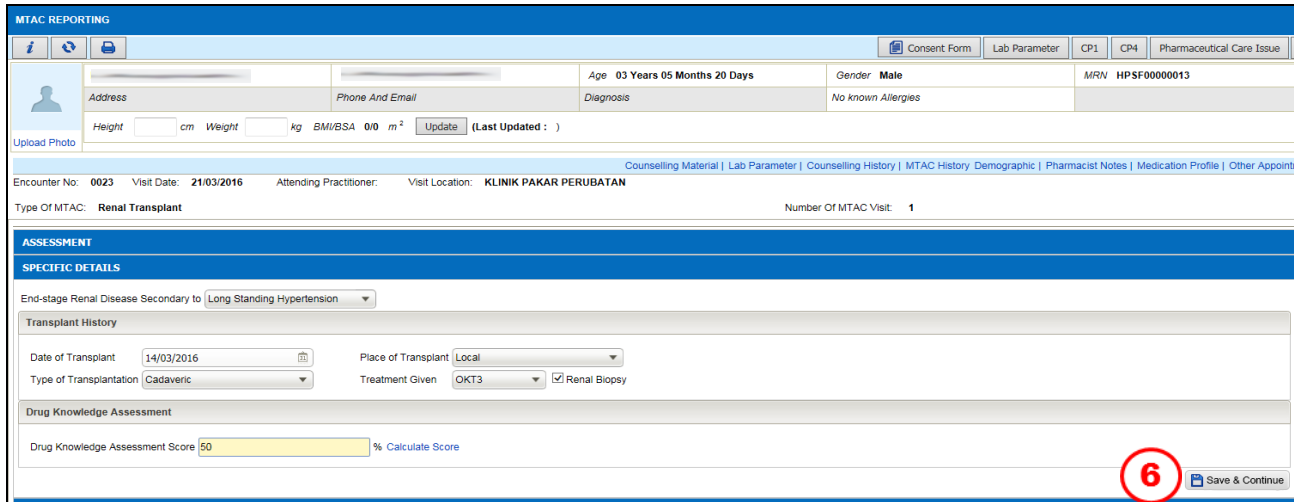
c) Take supplement and stop immunosuppressant
☐ Yes ☐ No ☐ Not Sure

SCORE: 0

Figure 3.2.3.7-3 Drug Knowledge Assessment

STEP 6

Click on the  button as shown in Figure 3.2.3.7-4 to save and continue with reporting section



MTAC REPORTING

Consent Form | Lab Parameter | CP1 | CP4 | Pharmaceutical Care Issue

Age: 03 Years 05 Months 20 Days | Gender: Male | MRN: HPSF00000013

Address: | Phone And Email: | Diagnosis: | No known Allergies

Height: cm | Weight: kg | BMI/BSA: 0/0 m² | Update (Last Updated:)

Encounter No: 0023 | Visit Date: 21/03/2016 | Attending Practitioner: | Visit Location: KLINIK PAKAR PERUBATAN

Type Of MTAC: Renal Transplant | Number Of MTAC Visit: 1

ASSESSMENT

SPECIFIC DETAILS

End-stage Renal Disease Secondary to: Long Standing Hypertension

Transplant History

Date of Transplant: 14/03/2016 | Place of Transplant: Local

Type of Transplantation: Cadaveric | Treatment Given: OKT3 | ☒ Renal Biopsy

Drug Knowledge Assessment

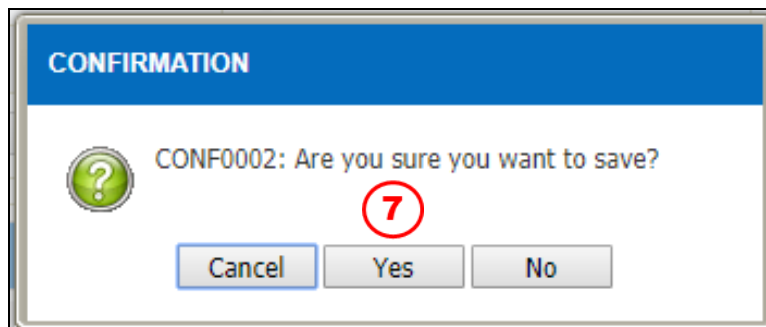
Drug Knowledge Assessment Score: 50 % Calculate Score

6 Save & Continue

Figure 3.2.3.7-4 Specific Details - Renal Transplant

STEP 7

Click on the **Yes** button to confirm save record



CONFIRMATION

CONF0002: Are you sure you want to save?

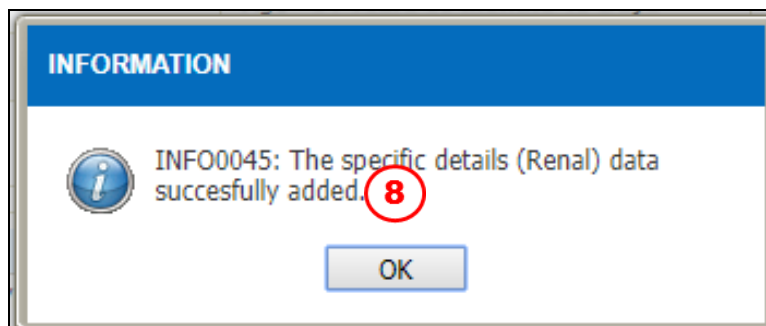
7

Cancel Yes No

Figure 3.2.3.7-5 Confirmation Alert Message

STEP 8

Click on the **OK** button to confirm record



INFORMATION

INFO0045: The specific details (Renal) data successfully added.

8

OK

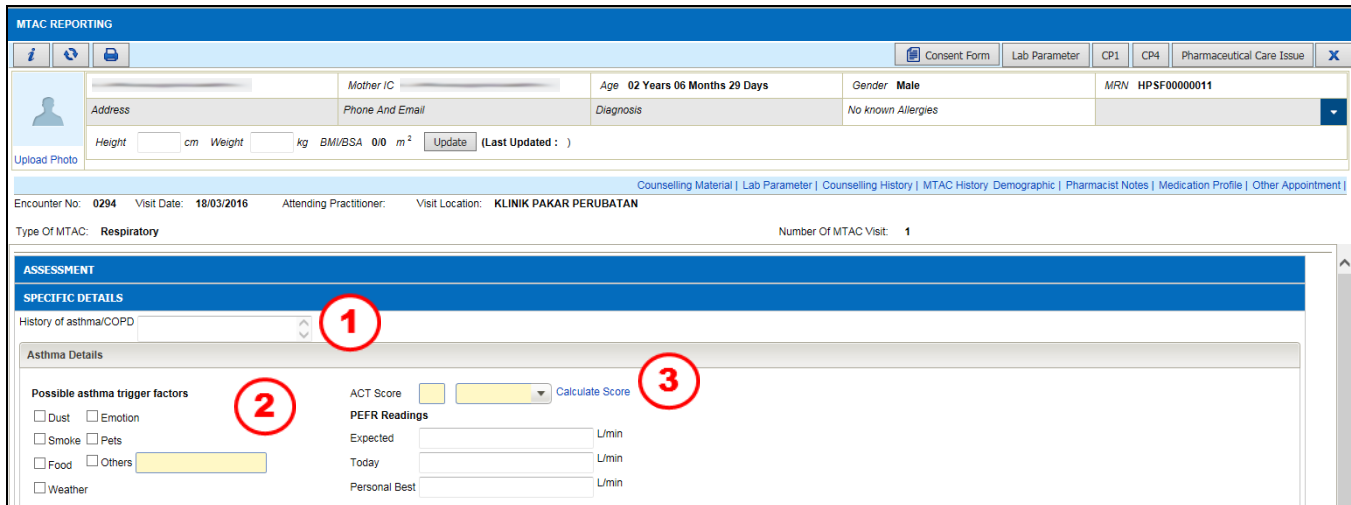
Figure 3.2.3.7-6 Information Alert Message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.8 Respiratory

This function allow user to record Specific Details for Respiratory for MTAC patient



The screenshot shows the 'MTAC REPORTING' interface. At the top, there's a patient information section with fields for Mother IC, Age (02 Years 06 Months 29 Days), Gender (Male), and MRN (HPSF00000011). Below this is a navigation bar with links like 'Counseling Material', 'Lab Parameter', etc. The main section is titled 'ASSESSMENT' and contains a 'SPECIFIC DETAILS' subsection. Under 'SPECIFIC DETAILS', there's a 'History of asthma/COPD' dropdown menu (labeled 1). Below that is the 'Asthma Details' section, which includes a 'Possible asthma trigger factors' list with checkboxes for Dust, Emotion, Smoke, Pets, Food, Others, and Weather (labeled 2). To the right of this list are fields for 'ACT Score' and a 'Calculate Score' button (labeled 3). Below these are 'PEFR Readings' fields for Expected, Today, and Personal Best.

Figure 3.2.3.8-1 Specific Details – Asthma Details

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Respiratory

STEP 1

Enter **History of asthma/COPD**

Asthma Details

STEP 2

Select **Possible asthma trigger factors** from the check box. User is allowed to select more than one (1)

- Dust
- Smoke
- Food
- Weather
- Emotion
- Pets
- Others

Note

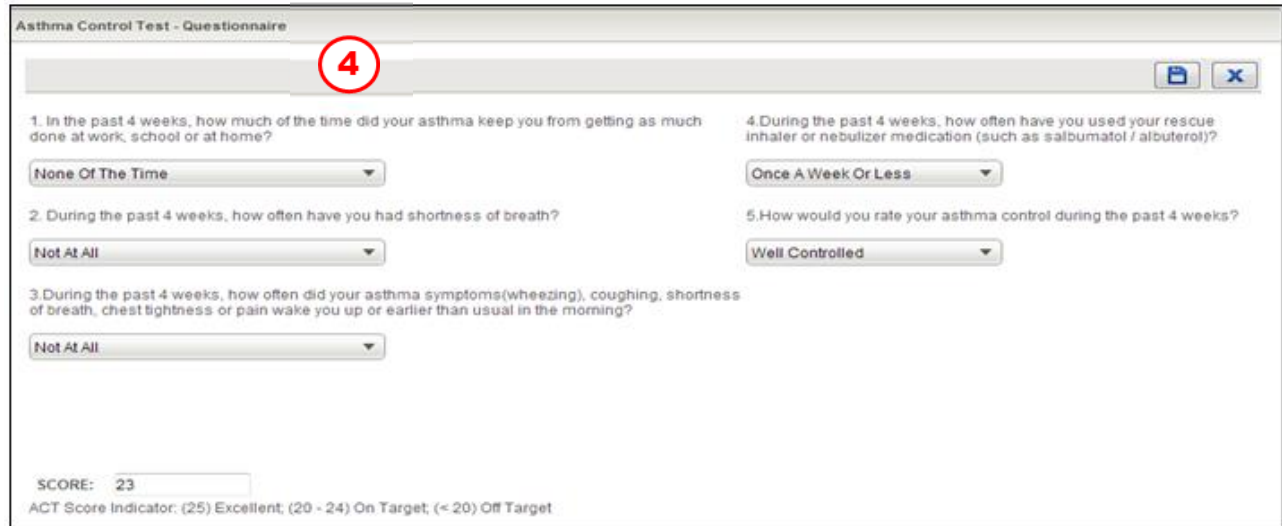
Blank field will be enabled only if user selects 'Others' from the check box.

STEP 3

Click on the [Calculate Score](#) hyperlink for **ACT Score** and the 'Asthma Control Test - Questionnaire' window will be displayed as shown in Figure 3.2.3.8-2

STEP 4

Select the drop down box to answer the questionnaire



The screenshot shows a web-based form titled "Asthma Control Test - Questionnaire". It contains five numbered questions with corresponding dropdown menus. A red circle with the number "4" is placed over the first dropdown menu. The questions are:

1. In the past 4 weeks, how much of the time did your asthma keep you from getting as much done at work, school or at home?
None Of The Time
2. During the past 4 weeks, how often have you had shortness of breath?
Not At All
3. During the past 4 weeks, how often did your asthma symptoms(wheezing), coughing, shortness of breath, chest tightness or pain wake you up or earlier than usual in the morning?
Not At All
4. During the past 4 weeks, how often have you used your rescue inhaler or nebulizer medication (such as salbutamol / albuterol)?
Once A Week Or Less
5. How would you rate your asthma control during the past 4 weeks?
Well Controlled

At the bottom, it shows "SCORE: 23" and "ACT Score Indicator: (25) Excellent; (20 - 24) On Target; (< 20) Off Target".

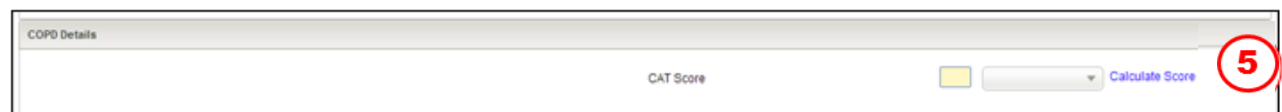
Figure 3.2.3.8-2 Asthma Control Test - Questionnaire

Note

Score will be automatically calculated and automatically displayed.

STEP 5

Click on the [Calculate Score](#) hyperlink and window of 'CAT Score – Questionnaire' will be display as per Figure 3.2.3.8-3

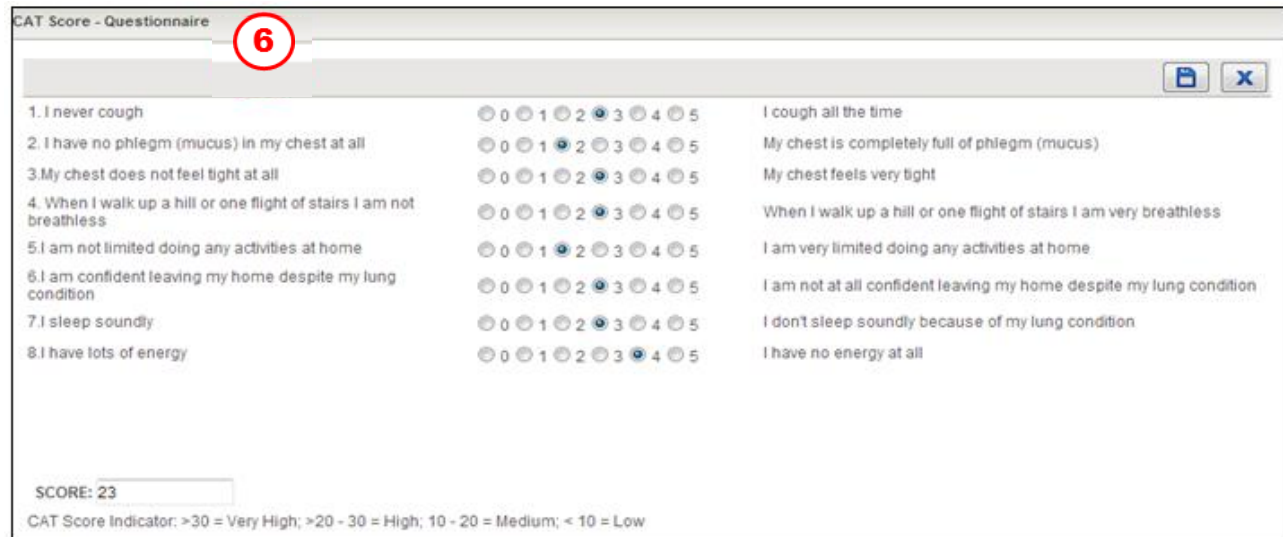


The screenshot shows a window titled "COPD Details". It contains a "CAT Score" label, a yellow square icon, a dropdown menu, and a "Calculate Score" hyperlink. A red circle with the number "5" is placed over the "Calculate Score" hyperlink.

Figure 3.2.3.8-3 Specific Details – COPD Details

STEP 6

Select **CAT Score – Questionnaire** check box and save record



6

CAT Score - Questionnaire

1. I never cough	0 1 2 3 4 5	I cough all the time
2. I have no phlegm (mucus) in my chest at all	0 1 2 3 4 5	My chest is completely full of phlegm (mucus)
3. My chest does not feel tight at all	0 1 2 3 4 5	My chest feels very tight
4. When I walk up a hill or one flight of stairs I am not breathless	0 1 2 3 4 5	When I walk up a hill or one flight of stairs I am very breathless
5. I am not limited doing any activities at home	0 1 2 3 4 5	I am very limited doing any activities at home
6. I am confident leaving my home despite my lung condition	0 1 2 3 4 5	I am not at all confident leaving my home despite my lung condition
7. I sleep soundly	0 1 2 3 4 5	I don't sleep soundly because of my lung condition
8. I have lots of energy	0 1 2 3 4 5	I have no energy at all

SCORE: 23

CAT Score Indicator: >30 = Very High; >20 - 30 = High; 10 - 20 = Medium; < 10 = Low

Figure 3.2.3.8-4 CAT Score – Questionnaire

STEP 7

Click on the [Calculate Score](#) hyperlink of Before and After Counseling to do questionnaire as below:

- MDI Score
- Turbuhaler Score
- Accuhaler Score
- Handihaler Score
- MDI and Spacer Score



Inhaler Technique Understanding

	Before counselling		After counselling	
MDI Score	5 High	Calculate Score	6 Excellent	Calculate Score
TURBUHALER Score		Calculate Score		Calculate Score
ACCUHALER Score		Calculate Score		Calculate Score
HANDIHALER Score		Calculate Score		Calculate Score
MDI and SPACER Score		Calculate Score		Calculate Score


7

8

Save & Continue

Figure 3.2.3.8-5 Inhaler Technique Understanding

STEP 8

Click on the  button as shown in Figure 3.2.3.8-5 to save and continue with reporting section

STEP 9

Click on the  button to confirm save order

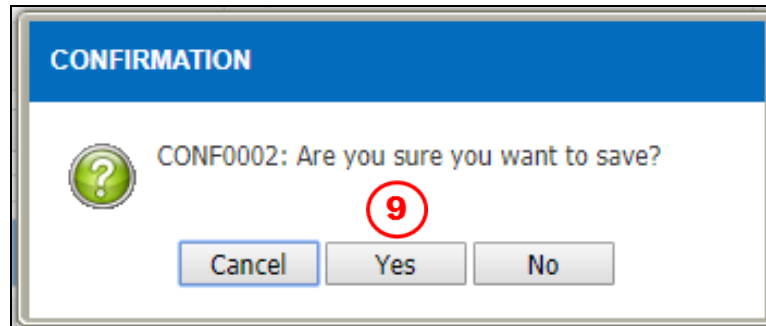



Figure 3.2.3.8-6 Confirmation Alert Message

STEP 10

Click on the  button to confirm record

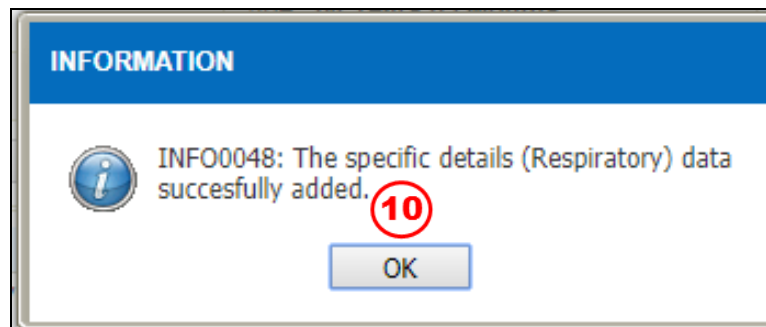


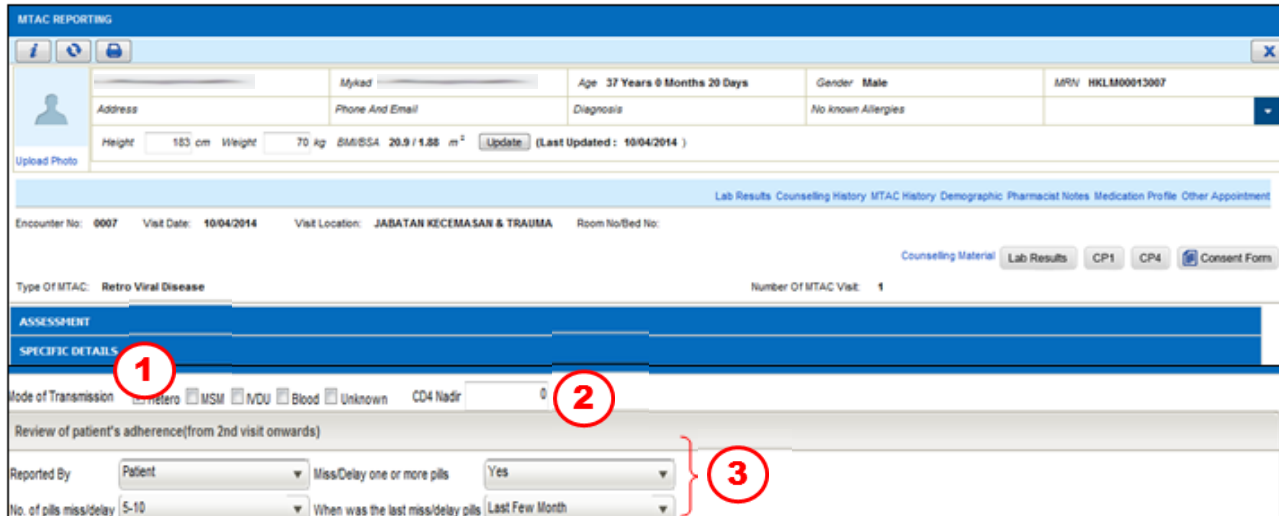
Figure 3.2.3.8-7 Information Alert Message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.9 Retro Viral Disease

This function allows users to record Specific Details for Retro Viral Disease for MTAC patients.



The screenshot shows the MTAC Reporting interface. The top section contains patient demographics: Mykad, Age (37 Years 0 Months 20 Days), Gender (Male), MKN HKLM00013007, Address, Phone And Email, Diagnosis, and No known Allergies. Below this is a section for Height (183 cm), Weight (70 kg), BMI/BSA (20.9 / 1.88 m²), and an Update button. The next section shows Encounter No: 0007, Visit Date: 10/04/2014, Visit Location: JABATAN KECEMASAN & TRAUMA, and Room No/Bed No. Below this is a section for Type Of MTAC: Retro Viral Disease and Number Of MTAC Visit: 1. The main section is titled ASSESSMENT and contains a sub-section SPECIFIC DETAILS. This section includes a Mode of Transmission section with checkboxes for Hetero, MSM, IVDU, Blood, and Unknown, and a CD4 Nadir field. Below this is a section for Review of patient's adherence (from 2nd visit onwards) with a Reported By dropdown menu and a Miss/Delay one or more pills section. Red circles and a bracket highlight these key fields: 1. Mode of Transmission checkboxes, 2. CD4 Nadir value, and 3. Reported By dropdown and adherence review section.

Figure 3.2-3.9-1 Specific Details - Retro Viral Disease

Note

Repeat **Step 1 to Step 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before performing MTAC Reporting - Specific Details for Retro Viral Disease.

STEP 1

Select **Mode of Transmission** from the check box

- Hetero
- MSM
- IVDU
- Blood
- Unknown

STEP 2

Enter **CD4 Nadir**

Review of patient's adherence (from 2nd visit onwards)

STEP 3

Select **Reported By** from the drop down box

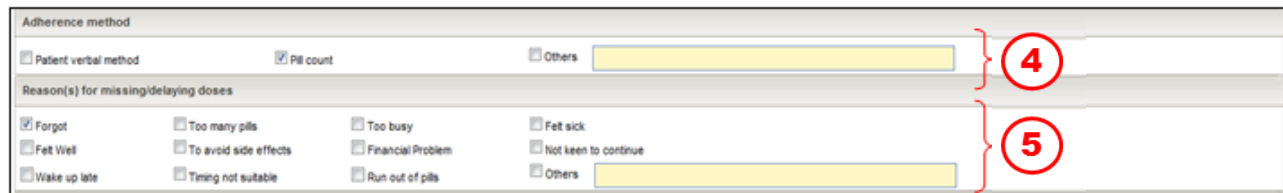
- Caregiver
- Patient

Select **Miss/Delay one or more pills** from the drop down box

- Yes
- No

Note

No. of pills miss/delay and when was the last miss/delay pills will be enabled only if user selects 'Yes' from the **Miss/Delay one or more pills** drop down box



The screenshot shows a form with two main sections. The first section, 'Adherence method', has three options: 'Patient verbal method', 'Pill count' (which is selected), and 'Others' (with an adjacent text field). A red bracket and circle labeled '4' point to the 'Others' field. The second section, 'Reason(s) for missing/delaying doses', contains a grid of checkboxes for various reasons: 'Forgot', 'Too many pills', 'Too busy', 'Felt sick', 'Felt Well', 'To avoid side effects', 'Financial Problem', 'Not keen to continue', 'Wake up late', 'Timing not suitable', 'Run out of pills', and 'Others' (with an adjacent text field). A red bracket and circle labeled '5' point to this entire section.

Figure 3.2.3.9-2 Specific Details - Retro Viral Disease

STEP 4

Select **Adherence Method** from the check box

- Patient verbal method
- Pill count
- Others

Note

Blank field will be enabled if user selects 'Others' from the check box.

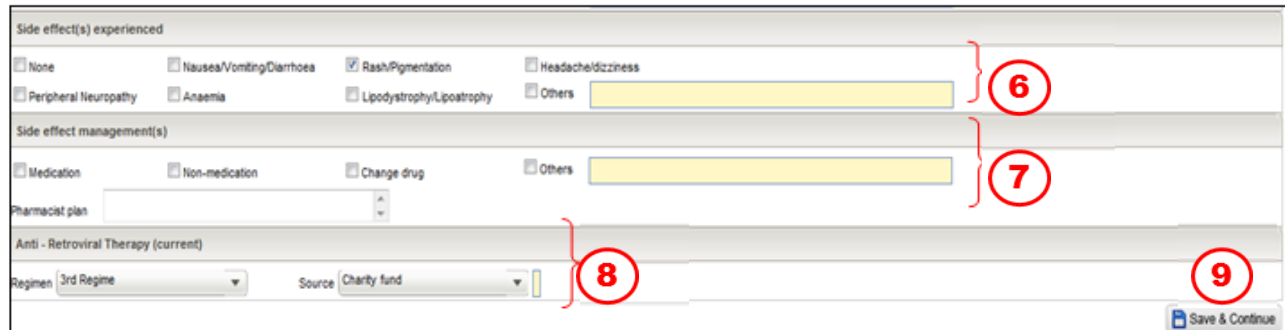
STEP 5

Select **Reason(s) for missing/delaying doses** from the check box

- Forgot
- Felt Well
- Wake up late
- Too many pills
- To avoid side effects
- Timing not suitable
- Too busy
- Financial Problem
- Run out of pills
- Felt sick
- Not keen to continue
- Others

Note

Blank field will be enabled if user selects 'Others' from the check box.



The screenshot shows a form with the following sections:

- Side effect(s) experienced:** Contains checkboxes for 'None', 'Nausea/Vomiting/Diarrhoea', 'Rash/Pigmentation' (checked), 'Headache/dizziness', 'Peripheral Neuropathy', 'Anaemia', 'Lipodystrophy/Lipoatrophy', and 'Others'. A red bracket labeled '6' groups the 'Others' checkbox and its associated text field.
- Side effect management(s):** Contains checkboxes for 'Medication', 'Non-medication', 'Change drug', and 'Others'. A red bracket labeled '7' groups the 'Others' checkbox and its associated text field.
- Pharmacist plan:** A dropdown menu.
- Anti - Retroviral Therapy (current):** A section containing a 'Regimen' dropdown (set to '3rd Regime') and a 'Source' dropdown (set to 'Charity fund'). A red bracket labeled '8' groups these two dropdowns.
- Save & Continue:** A button at the bottom right, with a red circle labeled '9' around it.

Figure 3.2.3.9-3 Specific Details - Retro Viral Disease

STEP 6

Select **Side effect(s) experienced** from the check box

- None
- Peripheral Neuropathy
- Nausea/Vomiting/Diarrhoea
- Anaemia
- Rash/Pigmentation
- Lipodystrophy/Lipoatrophy
- Headache/dizziness
- Others

Note

Blank field will be enabled if user selects 'Others' from the check box.

STEP 7

Select **Side effect management(s)** from the check box

- Medication
- Non-medication
- Change drug
- Others

Note

Blank field will be enabled if user selects 'Others' from the check box

Enter **Pharmacist plan** if necessary

Anti-Retroviral Therapy (current)

STEP 8

Select **Regimen** from the drop down box

- 1st line
- 2nd line
- 3rd line

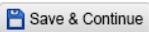
Select **Source** from the drop down box

- Baitulmal
- Charity fund
- Hospital
- NGO
- Others
- Self
- UNHCR

Note

Blank field will be enabled if user selects 'Others' from the check box.

STEP 9

Click on the  button as shown in Figure 3.2.3.9-3 to save and continue with reporting section

STEP 10

Click on the  button to confirm save record

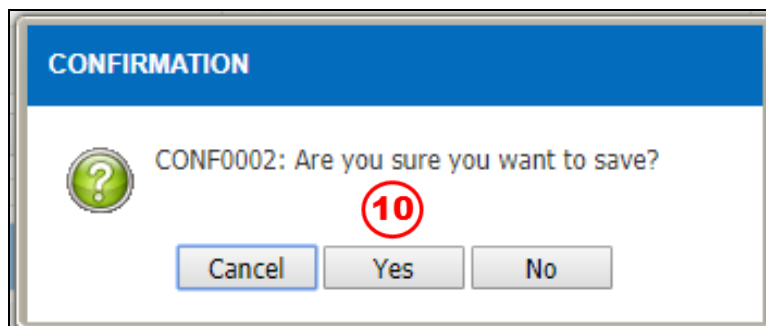



Figure 3.2.3.9-4 Confirmation Alert Message

STEP 11

Click on the  button to confirm record

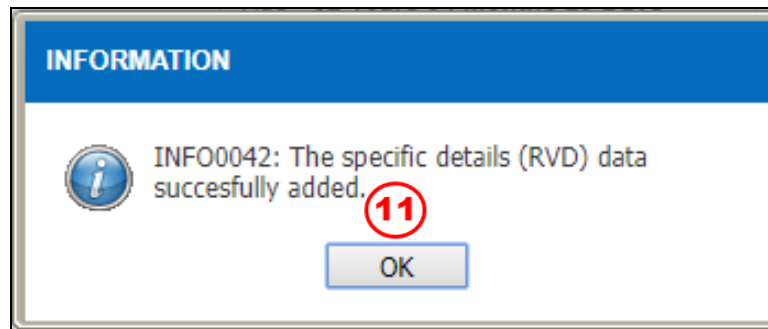


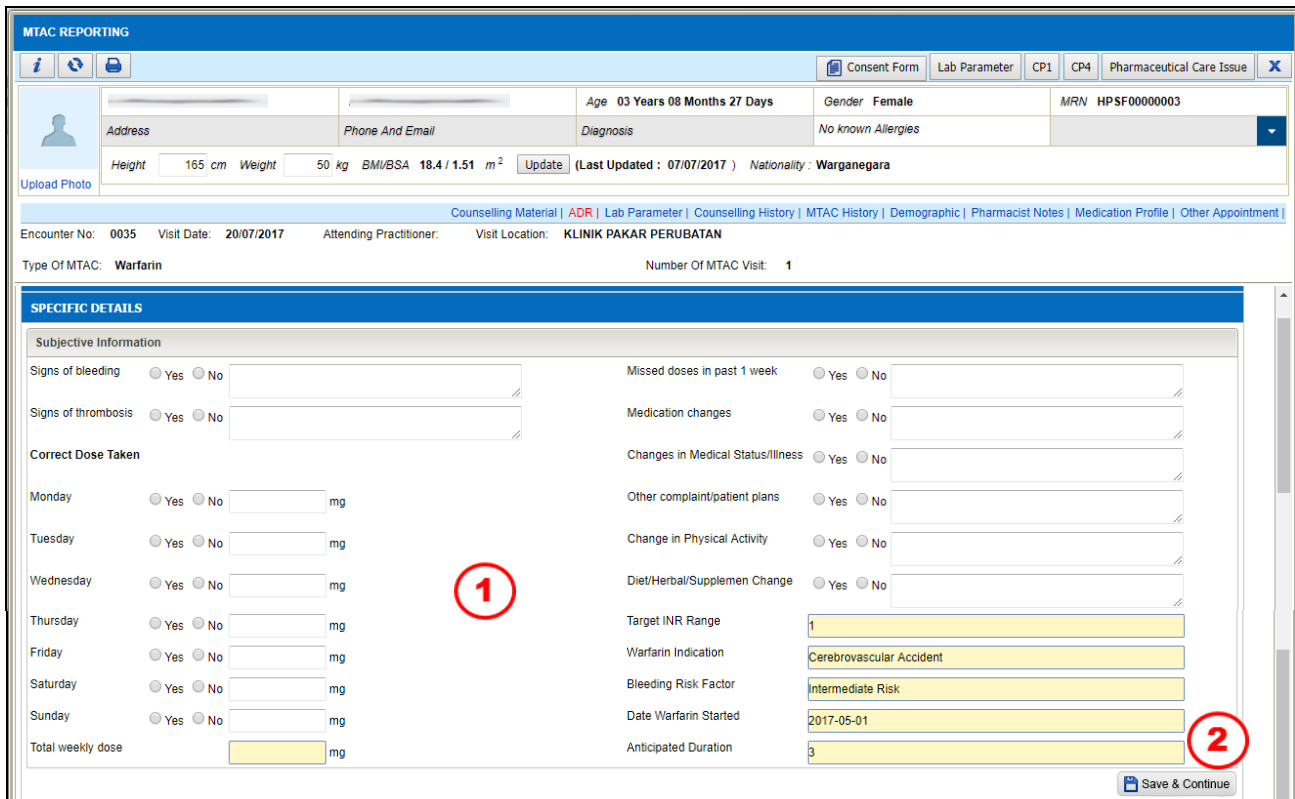
Figure 3.2.3.9-5 Information Alert Message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

3.2.3.10 Warfarin

This function allow user to record Specific Details for Warfarin for MTAC patients.



MTAC REPORTING

Consent Form | Lab Parameter | CP1 | CP4 | Pharmaceutical Care Issue

Age 03 Years 08 Months 27 Days | Gender Female | MRN HPSF00000003

Address | Phone And Email | Diagnosis | No known Allergies

Height 165 cm | Weight 50 kg | BMI/BSA 18.4 / 1.51 m² | Update (Last Updated : 07/07/2017) | Nationality : Warganegara

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

Encounter No: 0035 | Visit Date: 20/07/2017 | Attending Practitioner: | Visit Location: KLINIK PAKAR PERUBATAN

Type Of MTAC: Warfarin | Number Of MTAC Visit: 1

SPECIFIC DETAILS

Subjective Information

Signs of bleeding ☐ Yes ☐ No

Signs of thrombosis ☐ Yes ☐ No

Correct Dose Taken

Monday ☐ Yes ☐ No mg

Tuesday ☐ Yes ☐ No mg

Wednesday ☐ Yes ☐ No mg

Thursday ☐ Yes ☐ No mg

Friday ☐ Yes ☐ No mg

Saturday ☐ Yes ☐ No mg

Sunday ☐ Yes ☐ No mg

Total weekly dose mg

Missed doses in past 1 week ☐ Yes ☐ No

Medication changes ☐ Yes ☐ No

Changes in Medical Status/Illness ☐ Yes ☐ No

Other complaint/patient plans ☐ Yes ☐ No

Change in Physical Activity ☐ Yes ☐ No

Diet/Herbal/Supplement Change ☐ Yes ☐ No

Target INR Range 1

Warfarin Indication Cerebrovascular Accident

Bleeding Risk Factor Intermediate Risk

Date Warfarin Started 2017-05-01

Anticipated Duration 3

Save & Continue

Figure 3.2.3.10-1 Specific Details - Warfarin

Note

Repeat **STEP 1 to 16** as in 3.2.1 Create New MTAC Reporting with No Specific Details before perform MTAC Reporting - Specific Details for Warfarin.

STEP 1

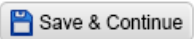
For **Subjective Information**, select 'Yes' or 'No' radio buttons for below:

- **Signs of bleeding**
- **Correct Dose Taken**
- **Signs of thrombosis**
- **Missed doses in past 1 week**
- **Medication changes**
- **Changes in Medical Status/Illness**
- **Other complaint/patient plans**
- **Change in Physical Activity**

Note

- Enter remark (if available) and dosage for **Correct Dose Taken** at the blank field provided
- **Total weekly dose, Target INR Range, Warfarin Indication, Bleeding Risk Factor, Date Warfarin Started** and **Anticipated Duration** will be automatically displayed based on what user key in in MTAC order details as shown in Figure 3.2.3.10-1.

STEP 2

Click on the  button to save and continue with reporting section

STEP 3

Click on the  button to confirm save record

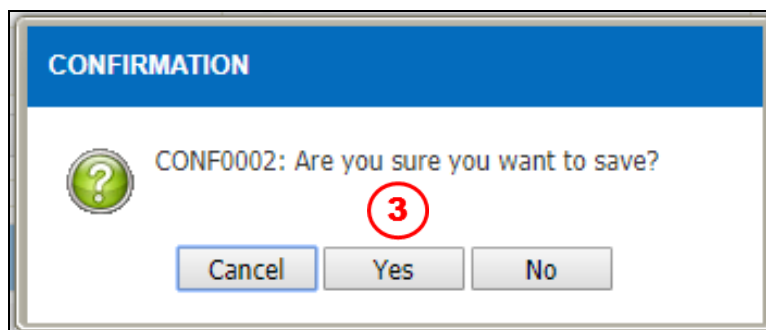


Figure 3.2.3.10-2 Confirmation Alert Message

STEP 4

Click on the  button to confirm record

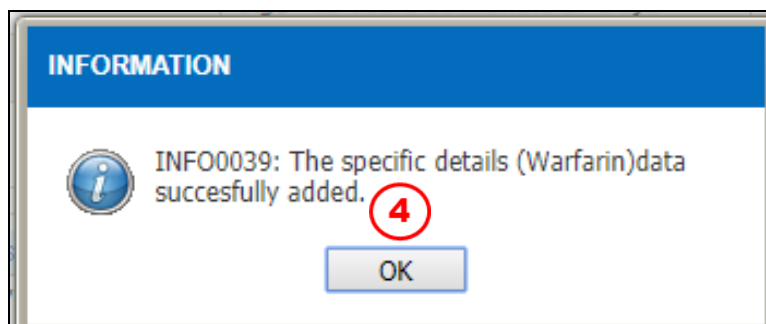


Figure 3.2.3.10-3 Information Alert Message

Note

For 'Reporting' section, repeat **Note (Page 28) to Step 32** as in 3.2.1 Create New MTAC Reporting with No Specific Details.

4.0 Acronyms

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

5.0 Links to Clinical Modules

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