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

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# User Manual
# Medication Therapy Adherence Clinic (MTAC)

| | |
|---|---|
| **Version** | **: 13th Edition** |
| **Document ID** | **: PB_U. MANUAL_MTAC** |

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*Reference ID : PB_U. MANUAL_MTAC-13th E*

*Application reference: PhIS & CPS v2.6.1*

## Table of Contents


1.0 Introduction ..... 1
1.1 Overview of PhIS ..... 1
1.2 Purpose and Objectives ..... 1
1.3 Organised Sections ..... 1
2.0 Application Standard Features ..... 2
2.1 PhIS Legend ..... 2
3.0 MTAC ..... 4
Overview ..... 4
User Group ..... 4
Function Diagram ..... 4
Function Description: ..... 4
3.1 MTAC Order ..... 6
3.1.1 View MTAC Existing Record ..... 6
3.1.2 Create New MTAC Order ..... 10
3.1.3 Reschedule MTAC Order ..... 16
3.1.4 Cancel MTAC Order ..... 18
3.2 MTAC Reporting ..... 22
3.2.1 MTAC Reporting with No Specific Details ..... 22
3.2.2 MTAC Reporting with Specific Details ..... 37
3.2.2.1 Chronic Kidney Disease ..... 37
3.2.2.2 Diabetes Mellitus ..... 40
3.2.2.3 Dialysis ..... 42
3.2.2.4 Geriatric ..... 46
3.2.2.5 Heart Failure ..... 49
3.2.2.6 Methadone ..... 51
3.2.2.7 Renal Transplant ..... 55
3.2.2.8 Respiratory ..... 59
3.2.2.9 Retro Viral Disease ..... 64
3.2.2.10 Warfarin ..... 68
3.2.2.11 Cardiovascular Care Bundle ..... 70
3.2.2.12 Hemophilia ..... 72
3.2.2.13 Psoriasis ..... 74
3.2.2.14 Thalassemia ..... 79
3.2.2.15 Pain ..... 81
3.2.3 MyMAAT ..... 83
4.0 Acronyms ..... 87
5.0 Links to Clinical Modules ..... 87

# 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 13 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,
8. Radiopharmaceuticals and Extemporaneous
9. Adverse Drug Reaction & Drug Allergic (ADR & DAC)
10. Clinical Pharmacokinetics Services (TDM)
11. Drug Information & Consumer Education (DICE)
12. Medication Therapy Adherence Clinic (MTAC)
13. 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 detail:

- MTAC Ordering
- MTAC reporting

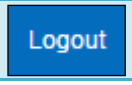
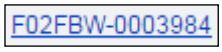
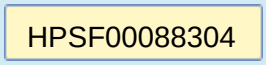
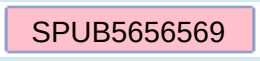
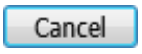
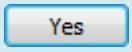
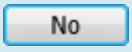
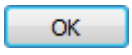
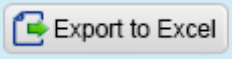
## 1.3 Organised Sections

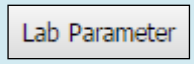
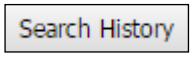
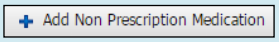
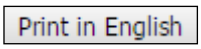
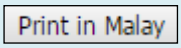
These are the sections within this document:

- 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 |
| | Add Prescription Medication Button | | Medication Order 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 |
| | Confirm Button |  | Print In English Button |
|  | Print In Malay Button | | |

***Note***

*To learn more about Login Information, kindly click Login Information module for descriptive steps.*

## 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)

### Function Diagram

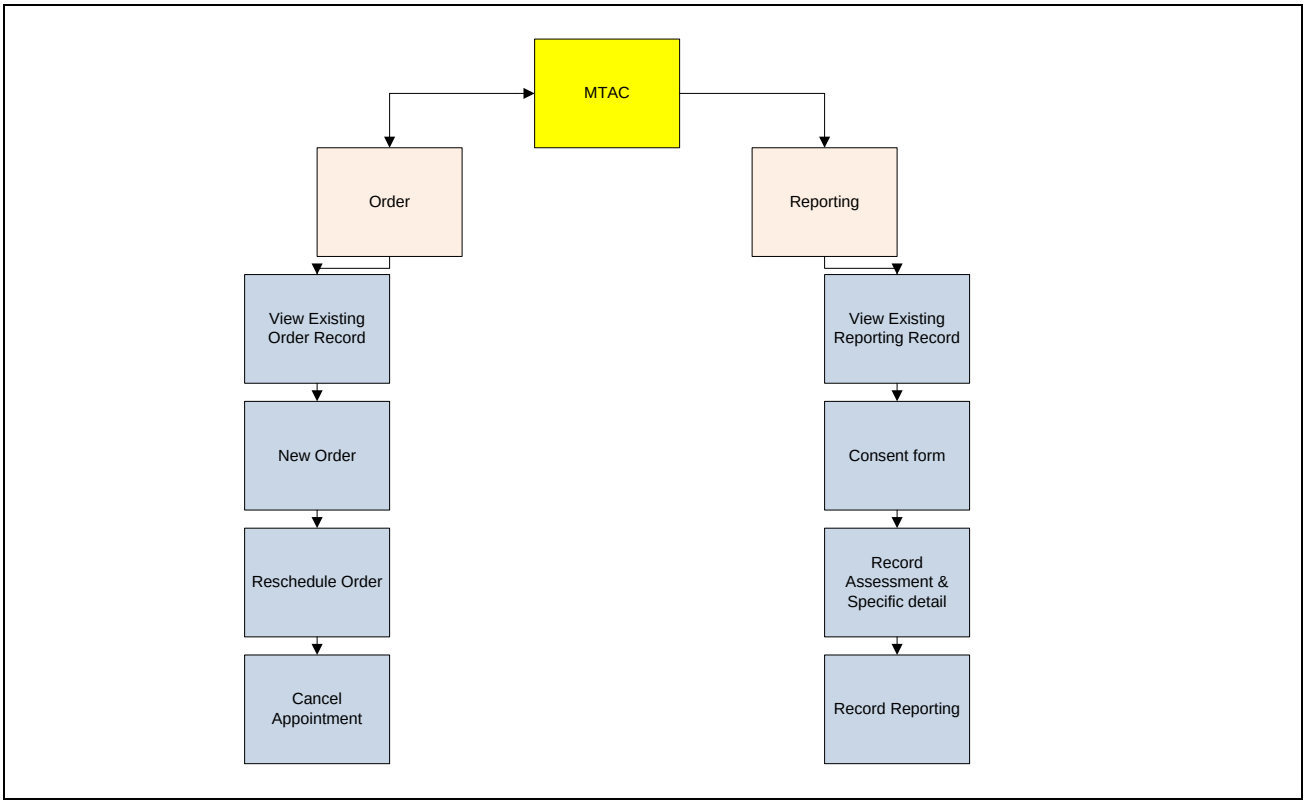



**Figure 3.0-1**

### Function Description:

MTAC Reporting is to record the type of MTAC for counselling and to schedule appointment dates. 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 Rehabilitation
2. Chronic Pain
3. Gastrohepatology
4. Hepatitis
5. Neurology
6. Osteoporosis

7. Psychiatry
8. Rheumatology

There are ten (15) 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
11. Cardiovascular Care Bundle
12. Hemophilia
13. Psoriasis
14. Thalassemia
15. Pain

## 3.1 MTAC Order

### 3.1.1 View MTAC Existing Record

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

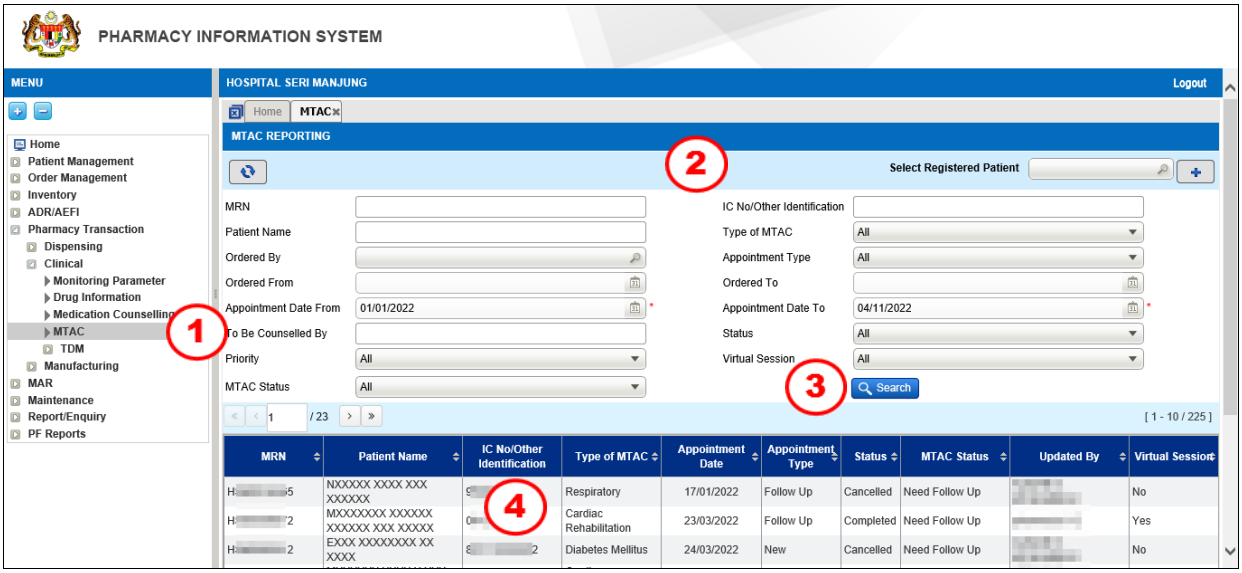



**Figure 3.1.1-1 MTAC Listing Page**

**STEP 1**
Click on 'Pharmacy Transaction' menu followed by 'Clinical' then 'MTAC' sub menu

**STEP 2**
Search existing patient record by: -

| Field | Description | Remark |
|---|---|---|
| MRN | Patient Medical Record Number | Search option:<br>Type the MRN either full or partial:<br>Example: HPSF00001234 or "1234" |
| IC No/ Other Identification | Identification Number | Allow to search by full or partial ID Number |
| Patient Name | Patient Name | Allow to search by patient full name or partial |
| Type of MTAC | Type of MTAC | Able to filter and search by type of MTAC order |
| Ordered by | Ordered by | Able to filter and search by ordered by |
| Appointment Type | - All<br>- Follow Up<br>- New | Able to filter and search by appointment type |
| Ordered from | Ordered from | Able to filter and search by ordered from |
| Ordered to | Ordered to | Able to filter and search by ordered to |
| Appointment Date From | Appointment Date From | Able to filter and search by appointment date before |
| Appointment Date To | Appointment Date To | Able to filter and search by appointment date the latest |
| To Be Counselled by | To Be Counselled by | Able to filter and search by to be counselled by |
| Status | - All<br>- Scheduled<br>- Cancelled<br>- In Progress | Able to filter and search by status |

| | | |
|---|---|---|
| | - Completed | |
| Priority | - All<br>- Urgent<br>- Routine | Able to filter and search by priority |
| Virtual Session | - All<br>- Yes<br>- No | Able to filter and search by Virtual Session |
| MTAC Status | - All<br>- Defaulted<br>- Discharged<br>- Need Follow Up | Able to filter and search by MTAC Status |

**Table 3.1.1-1**

**STEP 3**

Click on the Search button to search the patient

***Note***

*Search result of patient list will be displayed:*

- *MRN*
- *Patient Name*
- *IC No/Other Identification*
- *Type of MTAC*
- *Appointment Date*
- *Appointment Type*
- *Status*
- *MTAC Status*
- *Updated By*
- *Virtual Session*

**STEP 4**

Double click on the selected patient's name and MTAC Reporting record will be displayed as figure 3.1.1-2

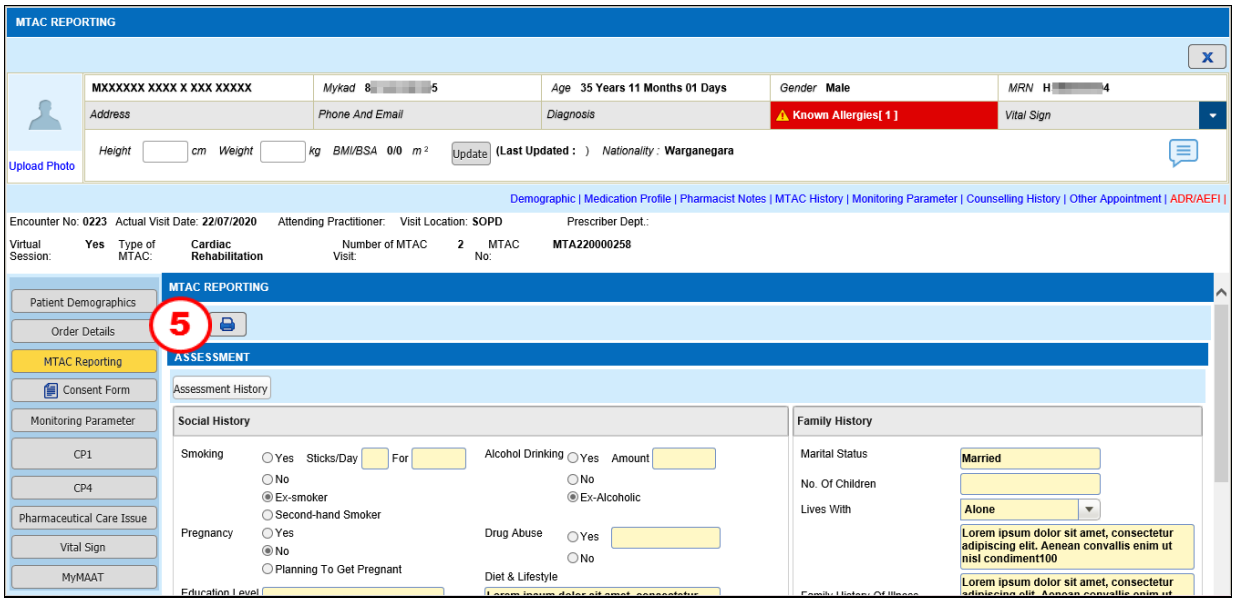



**Figure 3.1.1-2 MTAC Reporting**

**STEP 5**

Click on the Order Details button to view MTAC order details and screen will displayed as figure 3.1.1-3

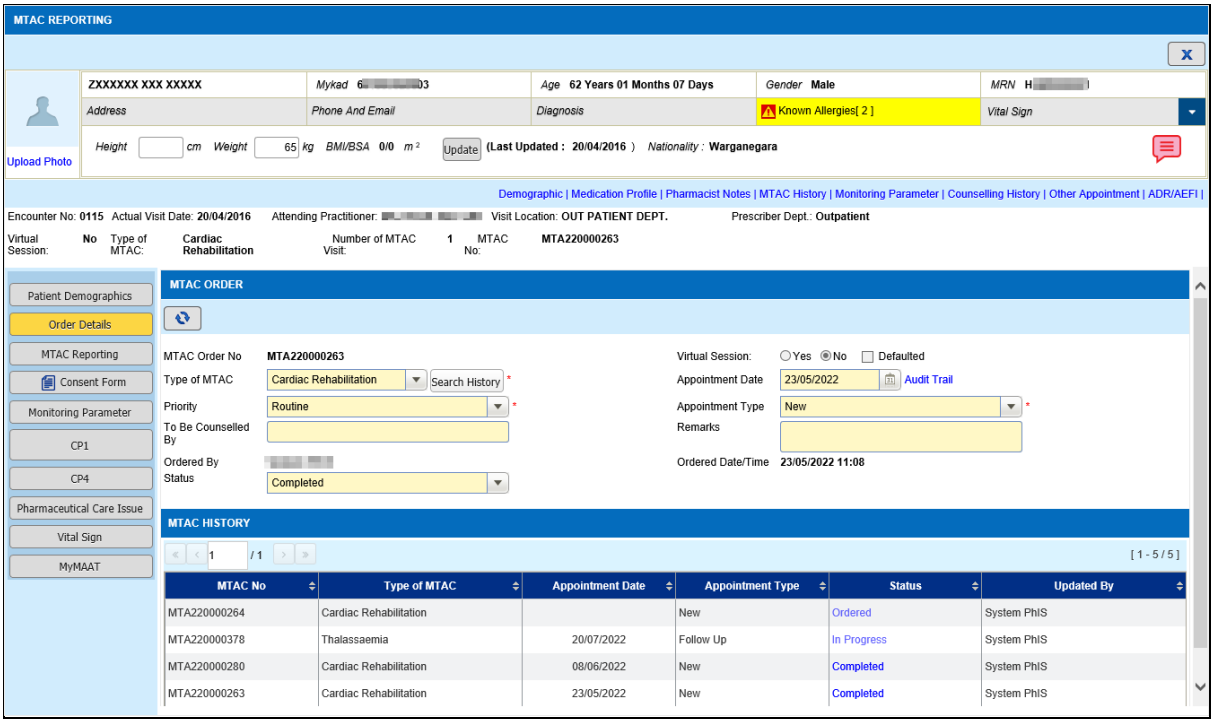



**Figure 3.1.1-3 MTAC Order**

***Note***

- *User is allowed to edit MTAC Order information only for Status Scheduled that display in the MTAC listing Page*
- *User is able view all the MTAC History for the selected patient at the MTAC History section*
- *User is allowed to view MTAC Reporting for MTAC History with status Completed by click on the Completed hyperlink and MTAC Reporting screen will appear as figure 3.1.1-4*

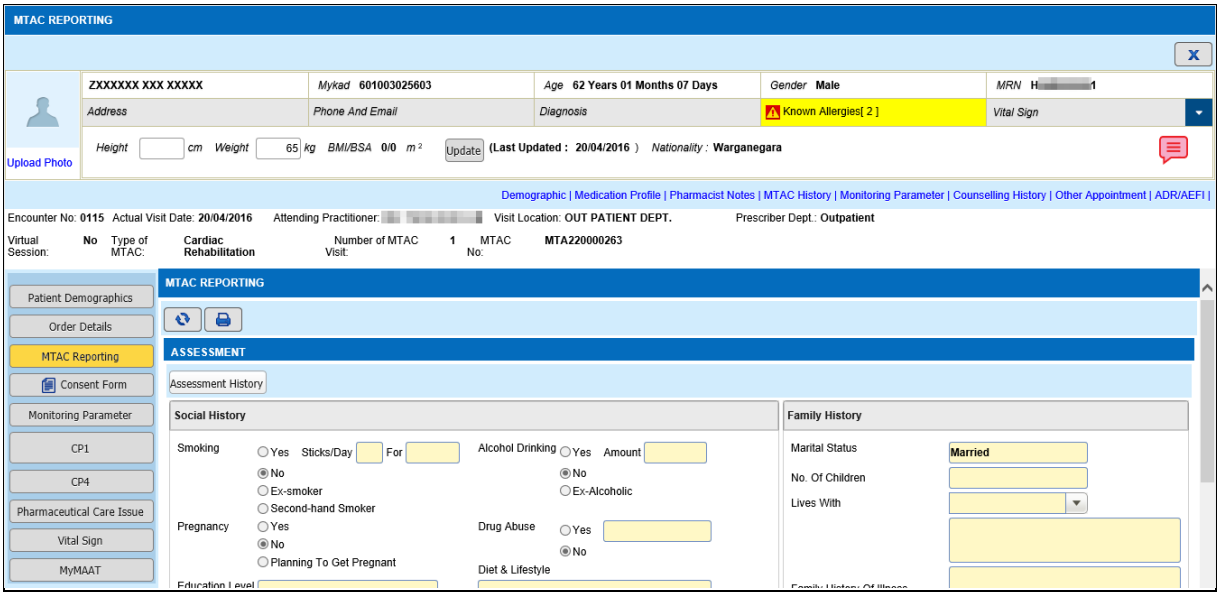



**Figure 3.1.1-4 MTAC Reporting**

### 3.1.2 Create New MTAC Order

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

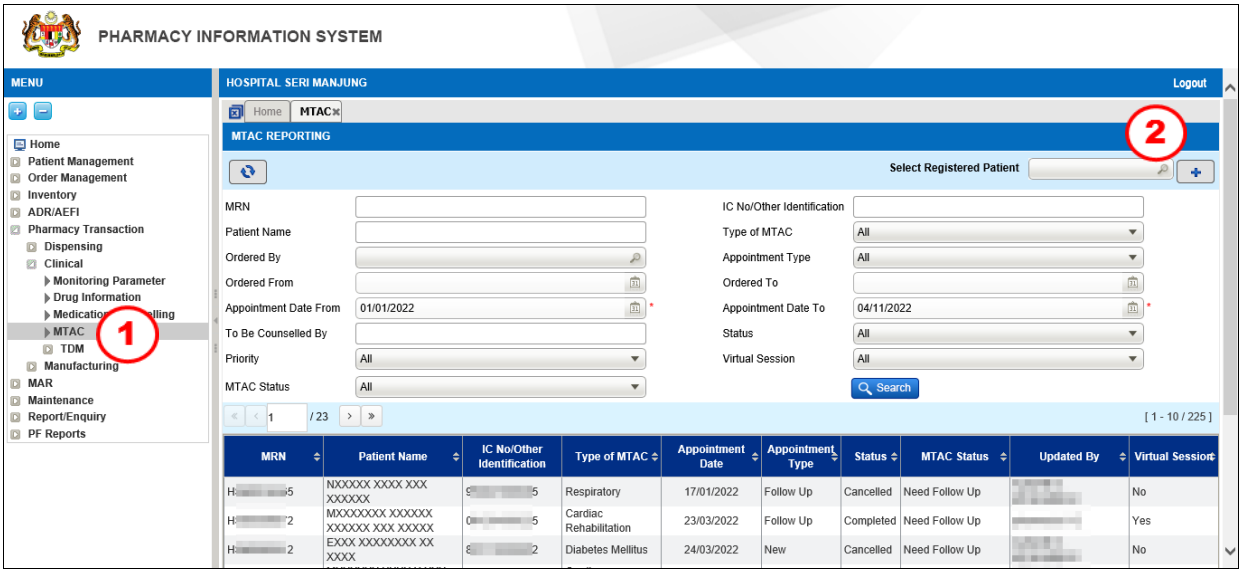
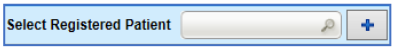



**Figure 3.1.2-1 MTAC**

**STEP 1**

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

**STEP 2**

Click on the button to search for registered patient at the 

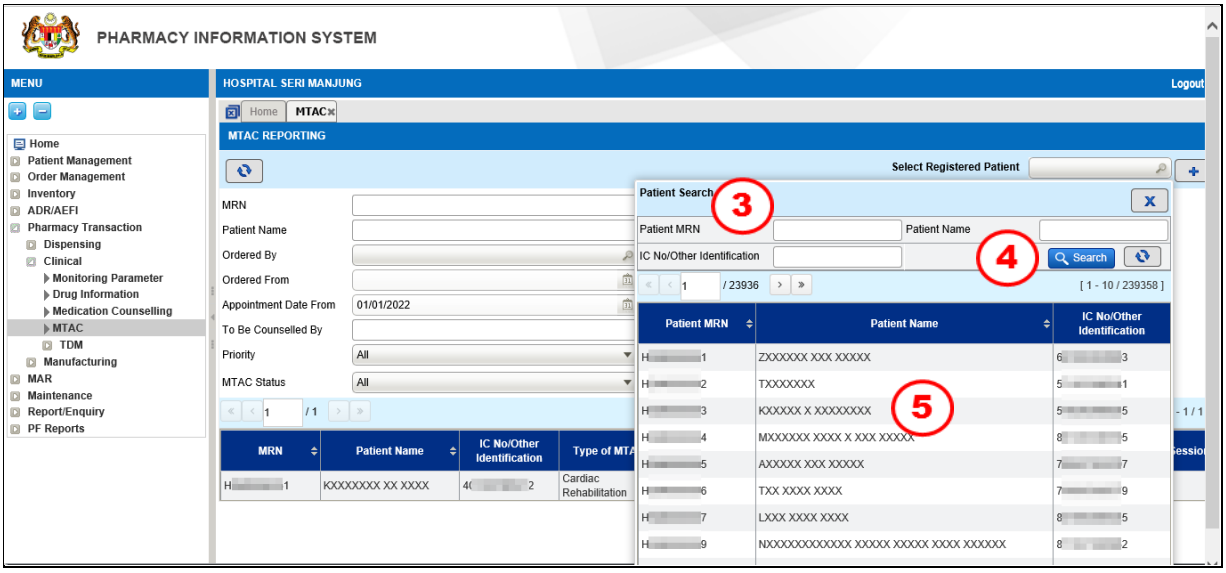




**Figure 3.1.2-2 MTAC**

**STEP 3**

Search existing patient record as follow: -

| Field | Description | Remark |
|---|---|---|
| Patient MRN | Patient Medical Record Number | Search option:<br>Type the MRN either in full or partially:<br>*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 Search button to search for the patient

**STEP 5**

Select Patient Name

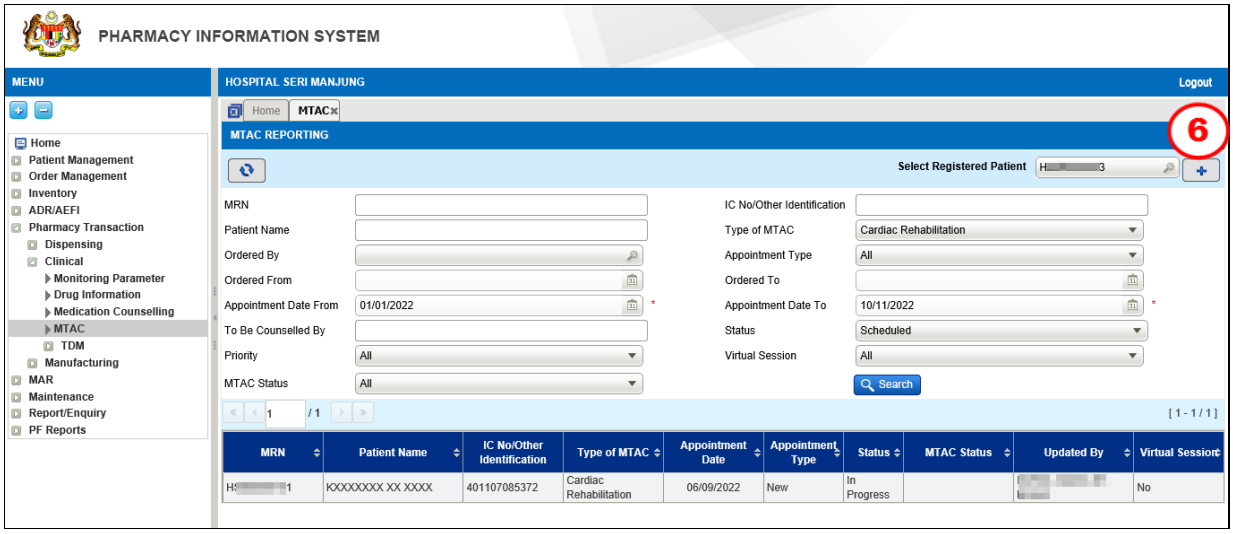



**Figure 3.1.2-3 MTAC Order**

**STEP 6**

Click on the + button and MTAC Order screen will display as figure 3.1.2-4

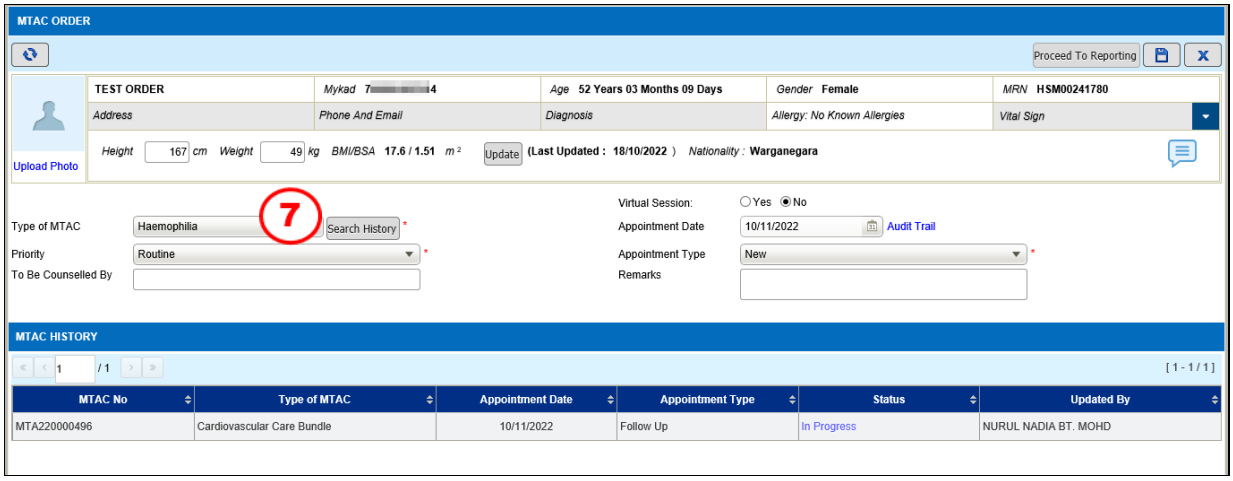



**Figure 3.1.2-4 MTAC Order**

**STEP 7**

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

***Note***

- *Virtual session radio button can be selected if a virtual MTAC Order session is being ordered*

- ***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 MTAC History window as shown in Figure 3.1.2-5.*

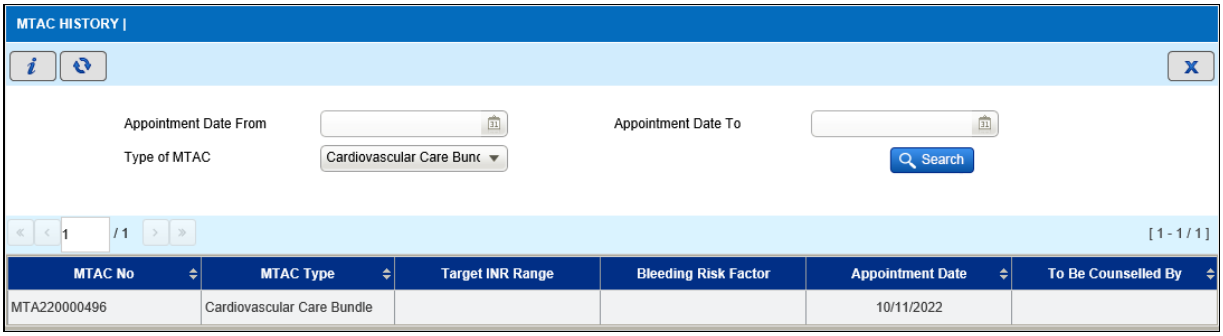



**Figure 3.1.2-5 MTAC History**

- *User is allowed to view all the MTAC history for the selected patient at MTAC History section.*

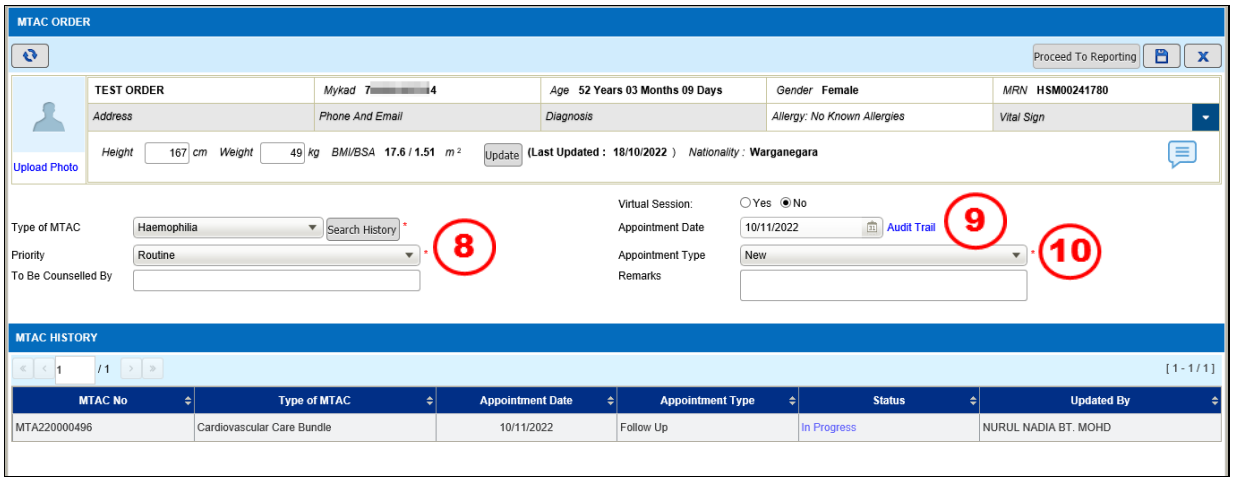



**Figure 3.1.2-6 MTAC Order**

**STEP 8**

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

- Routine
- Urgent

**STEP 9**

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

***Note***

- *Date will be default to current date and user is allowed to change*

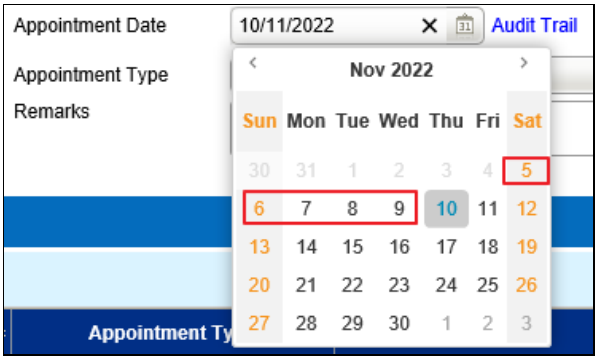



**Figure 3.1.2-7 Appointment Date**

- *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 **10/11/2022,** user can select **9, 8, 7, 6** and **5 Nov**.*

**STEP 10**
Select ***Appointment Type*** as listed from the drop-down box
- New
- Follow Up

***Note***
- *User will be able to enter **To Be Counseled By** person name and **Remarks** if required.*

- *Additional information field will be displayed if user select **Type of MTAC** is 'Warfarin' as below (figure 3.1.2-8):*
  - Target INR Range
  - Date Warfarin Started
  - Warfarin Indication
  - Anticipated Duration
  - Bleeding Risk Factor
  - Time in Therapeutic Range (TTR)

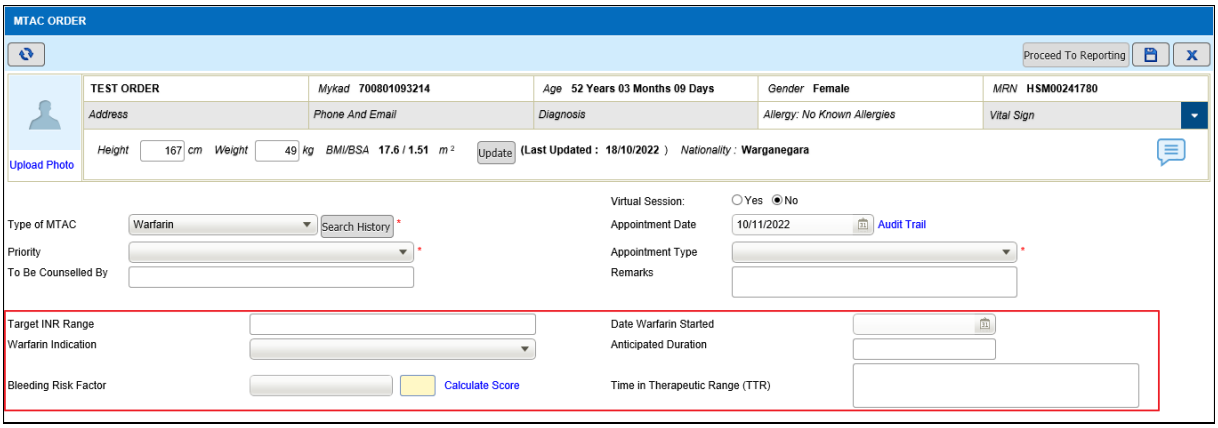



**Figure 3.1.2-8 Warfarin MTAC Order**

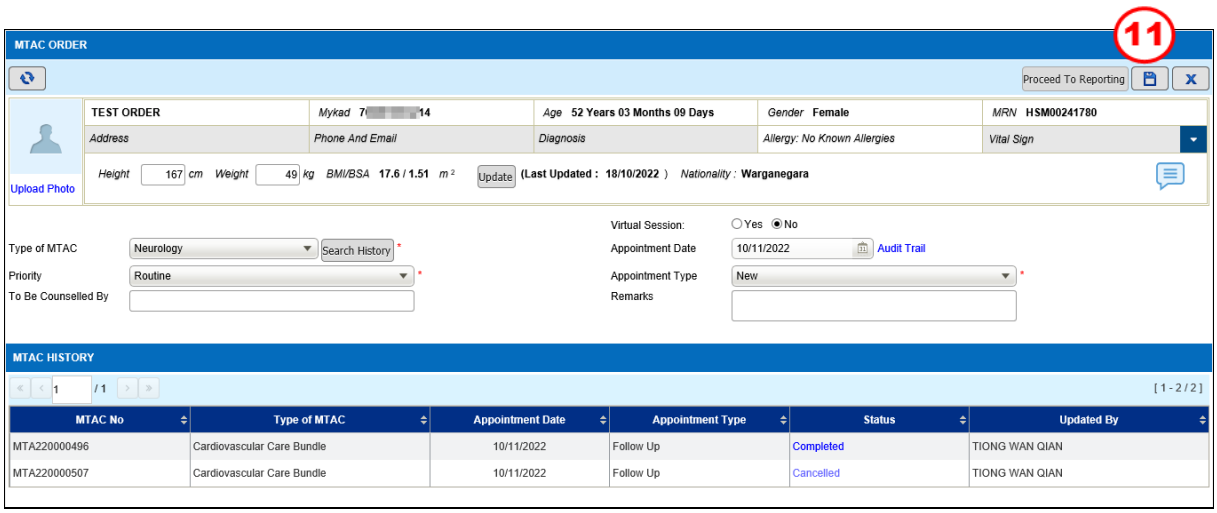



**Figure 3.1.2-9 MTAC Order**

**STEP 11**

Click on the button to save MTAC Order

***Note***

- *Confirmation message will display as figure 3.1.2-10*

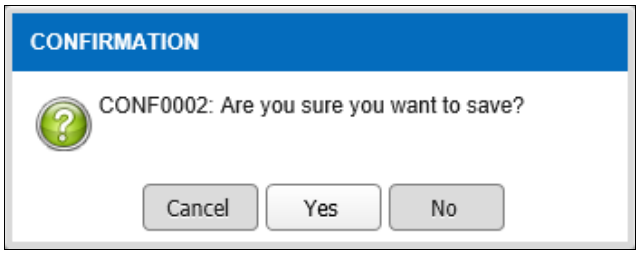



**Figure 3.1.2-10 Confirmation Message**

- *Click on the Yes button to save the MTAC Order and Information message will display as figure 3.1.2-11*

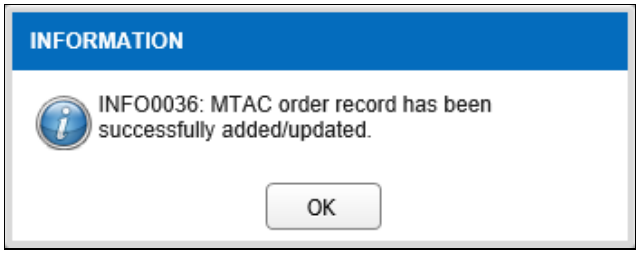



**Figure 3.1.2-11 Information Message**

- *Click on the OK button to confirmed*

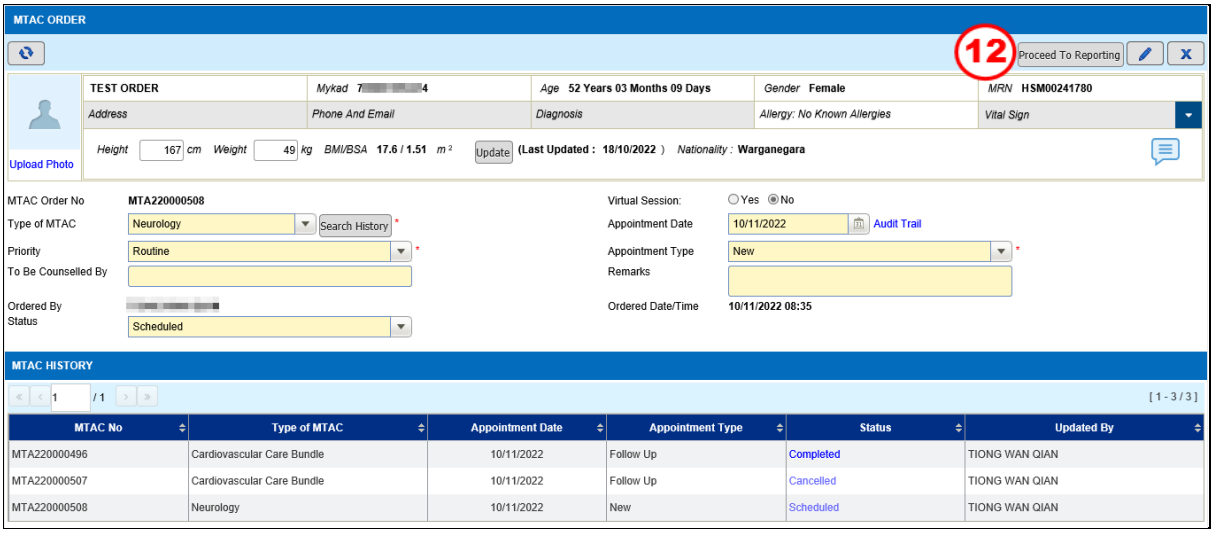



**Figure 3.1.2-12 Information Message**

***Note***

- *After successfully save, MTAC Order information will be updated into MTAC History section with status Scheduled*
- *User is allowed to edit MTAC Order information by click on the* *button*
- *Field that can be edit/change as below:*
  *a) Priority*
  *b) Virtual Session*
  *c) To Be Counselled By*
  *d) Appointment Date*
  *e) Appointment Type*
  *f) Remarks*
  *g) Status*

**STEP 12**

Click on the button to proceed with MTAC Reporting.

***Note***

*Refer section [3.2 MTAC Reporting]*

### 3.1.3 Reschedule MTAC Order

This function is used to reschedule MTAC appointment date

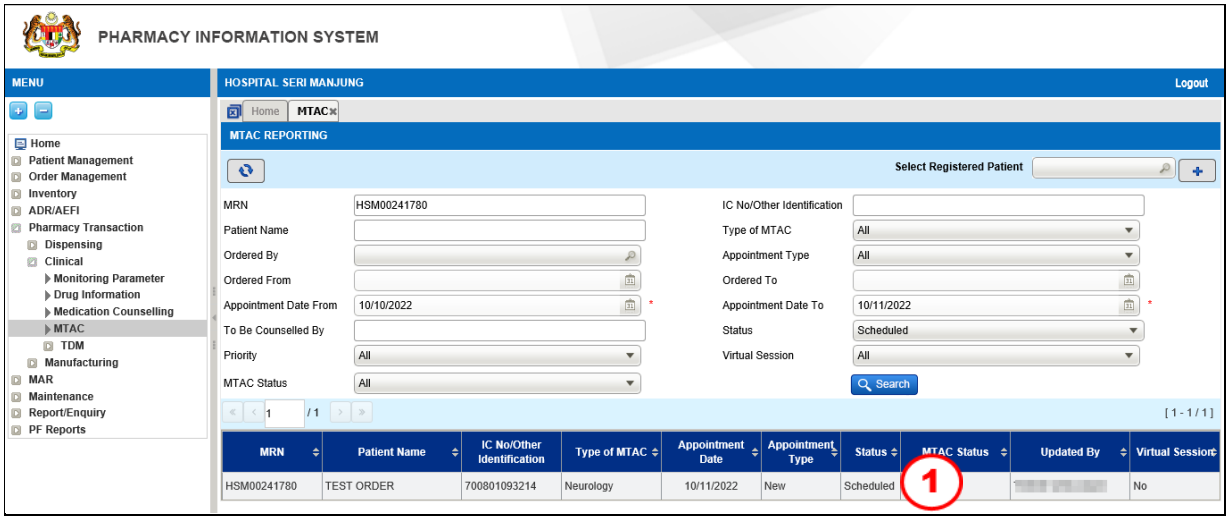



**Figure 3.1.3-1 MTAC Listing Page**

**STEP 1**

Search for status Schedule and double click on the selected patient

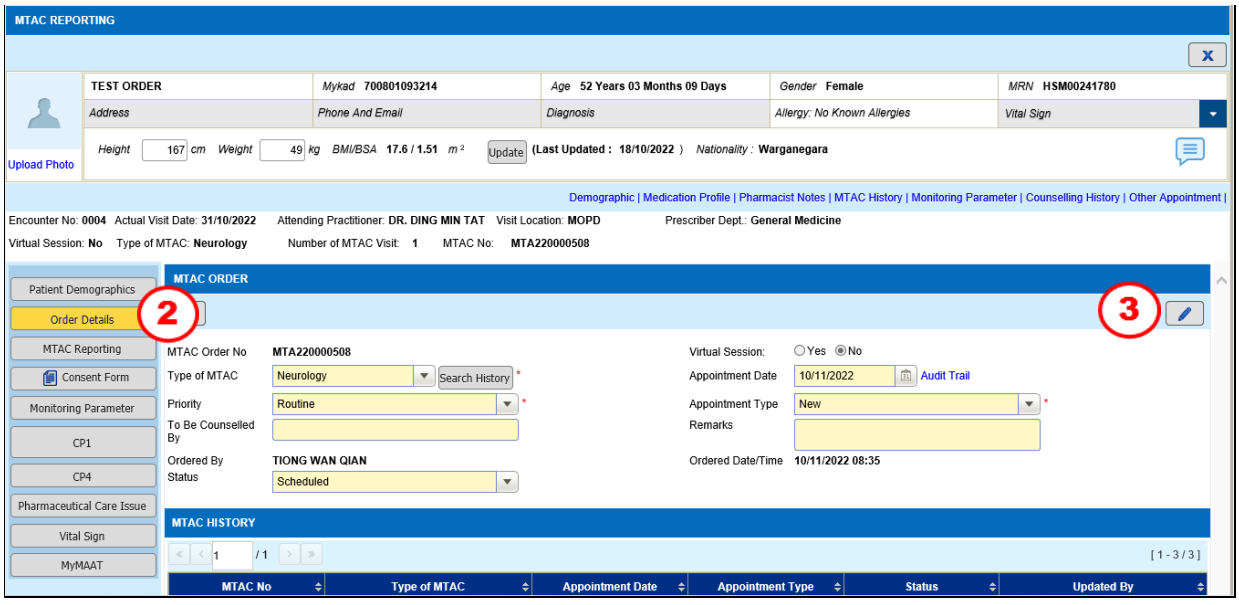



**Figure 3.1.3-2 MTAC Order**

**STEP 2**

Click on the Order Details button

**STEP 3**

Click on the button

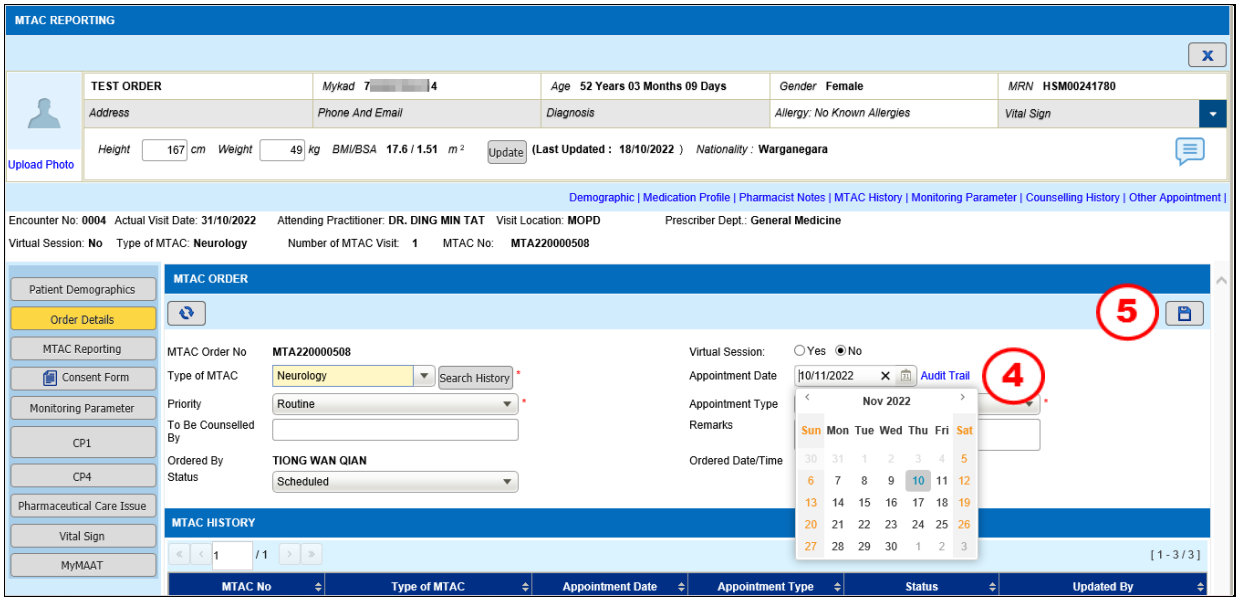



**Figure 3.1.3-3 MTAC Order**

**STEP 4**

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

**STEP 5**

Click on the button to save MTAC Order

***Note***

- *Confirmation message will display as figure 3.1.3-4*

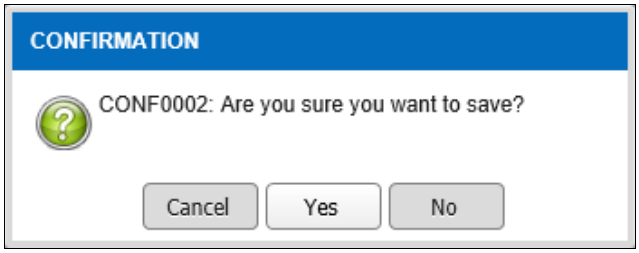



**Figure 3.1.3-4 Confirmation Message**

- *Click on the* Yes *button to save the MTAC Order and Information message will display as figure 3.1.3-5*

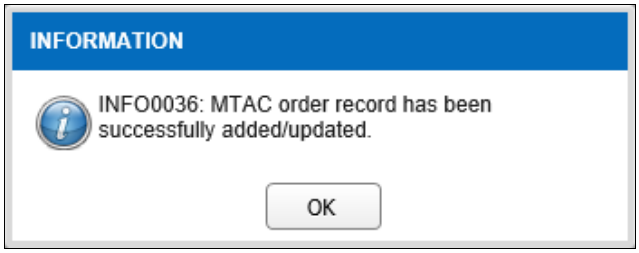



**Figure 3.1.3-5 Information Message**

- *Click on the* OK *button to confirmed*

### 3.1.4 Cancel MTAC Order

This function is used to cancel an existing MTAC order

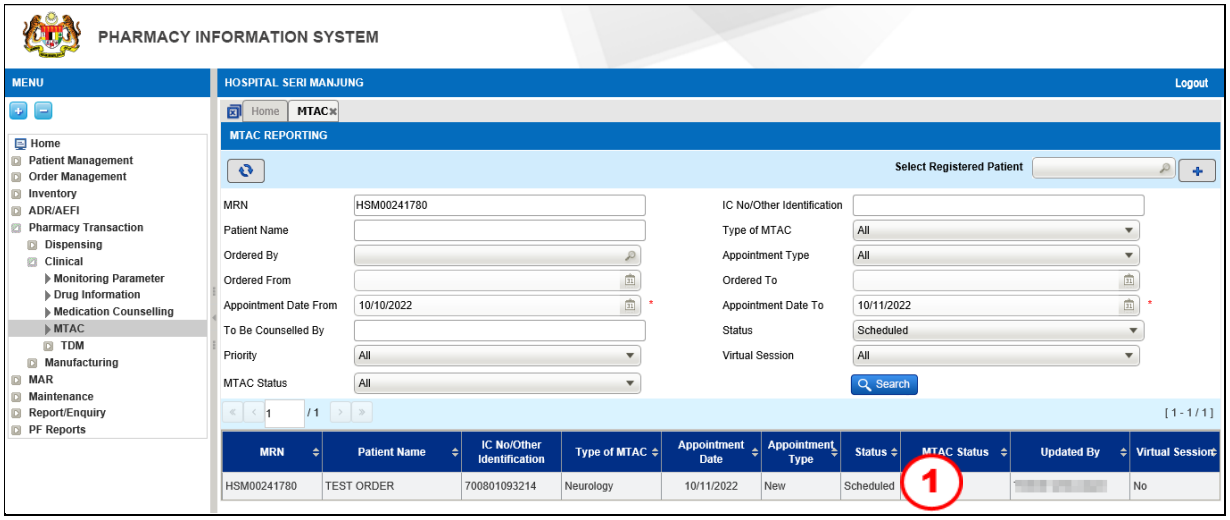



**Figure 3.1.4-1 MTAC Listing Page**

**STEP 1**

Search for status Schedule and double click on the selected patient

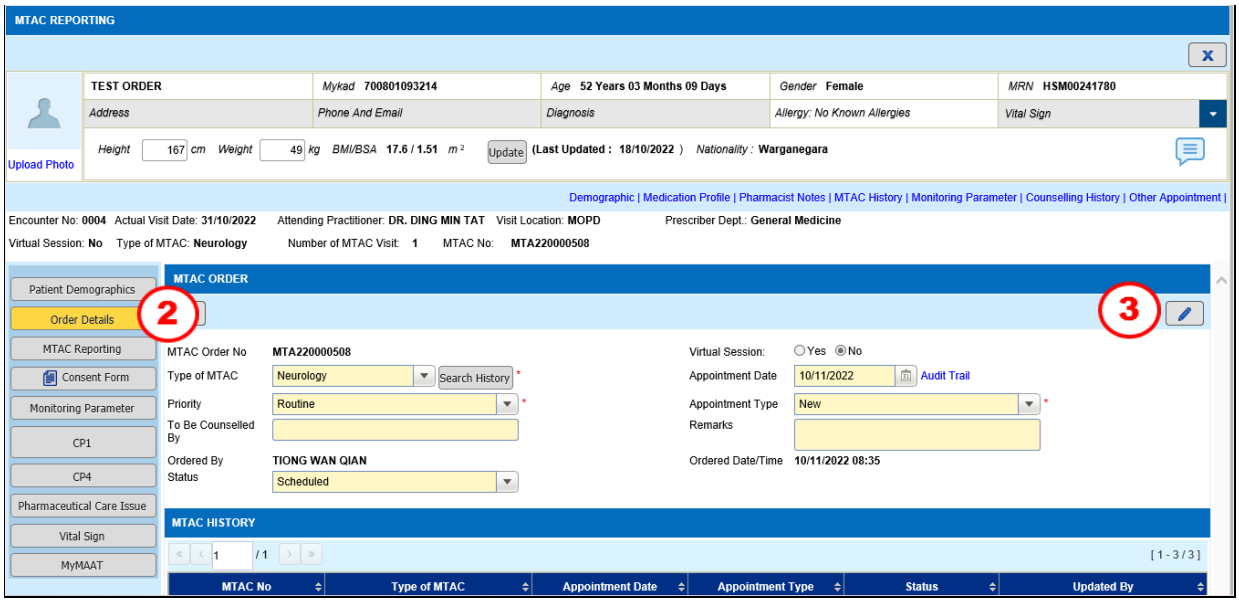



**Figure 3.1.4-2 MTAC Order**

**STEP 2**

Click on the Order Details button

**STEP 3**

Click on the button

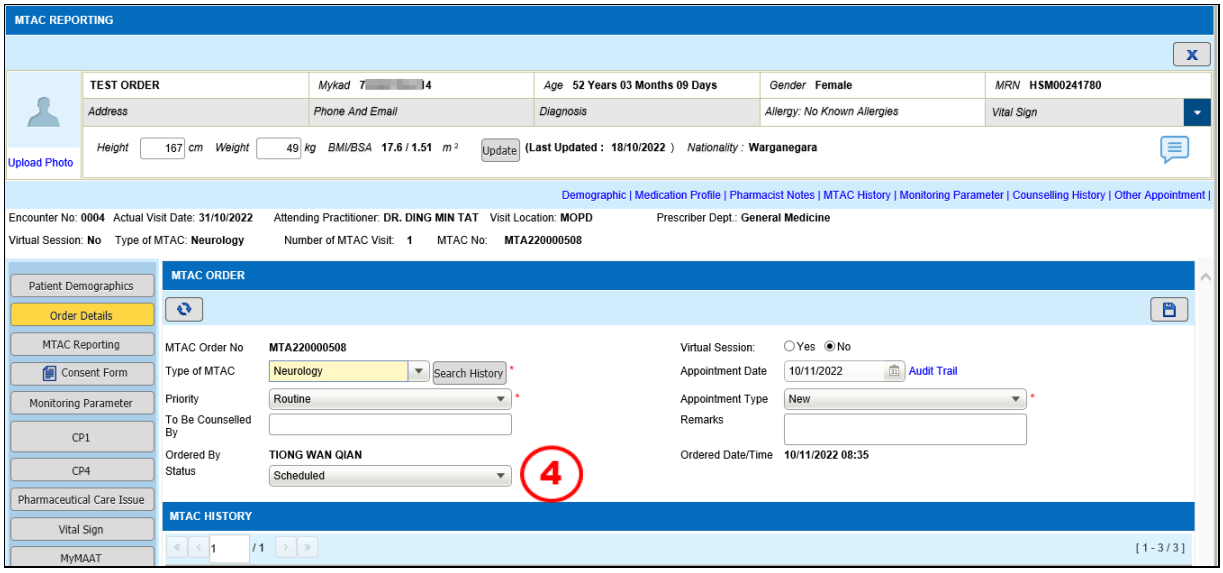



**Figure 3.1.4-3 MTAC Order**

**STEP 4**

Select ***Status*** as 'Cancelled' and Cancel Remarks windows will be display as figure 3.1.4-4

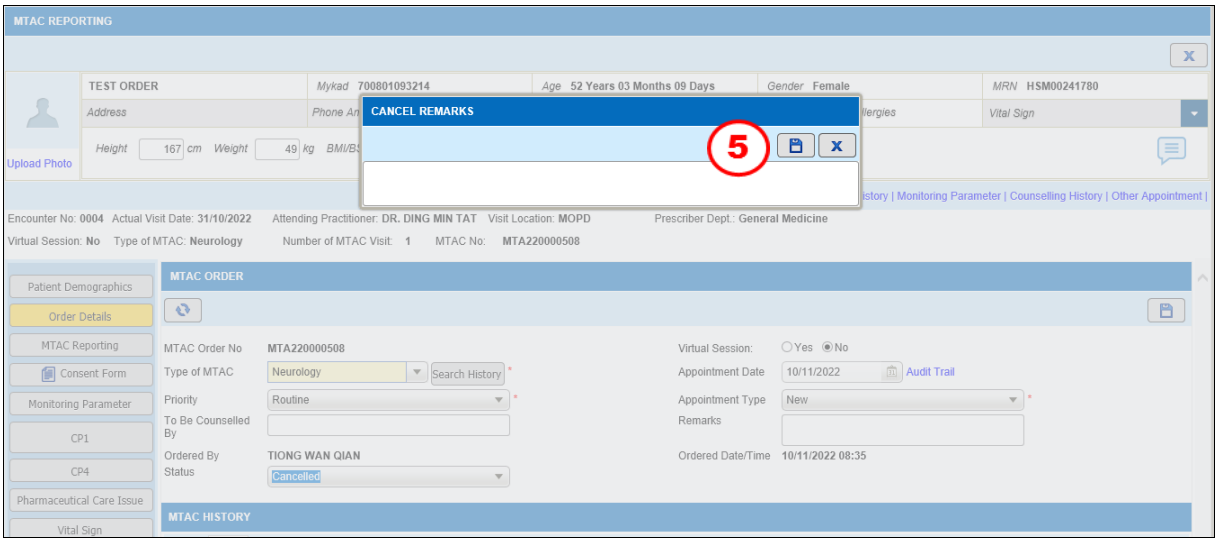



**Figure 3.1.4-4 Cancel Remarks**

**STEP 5**

Enter remarks and click on the button

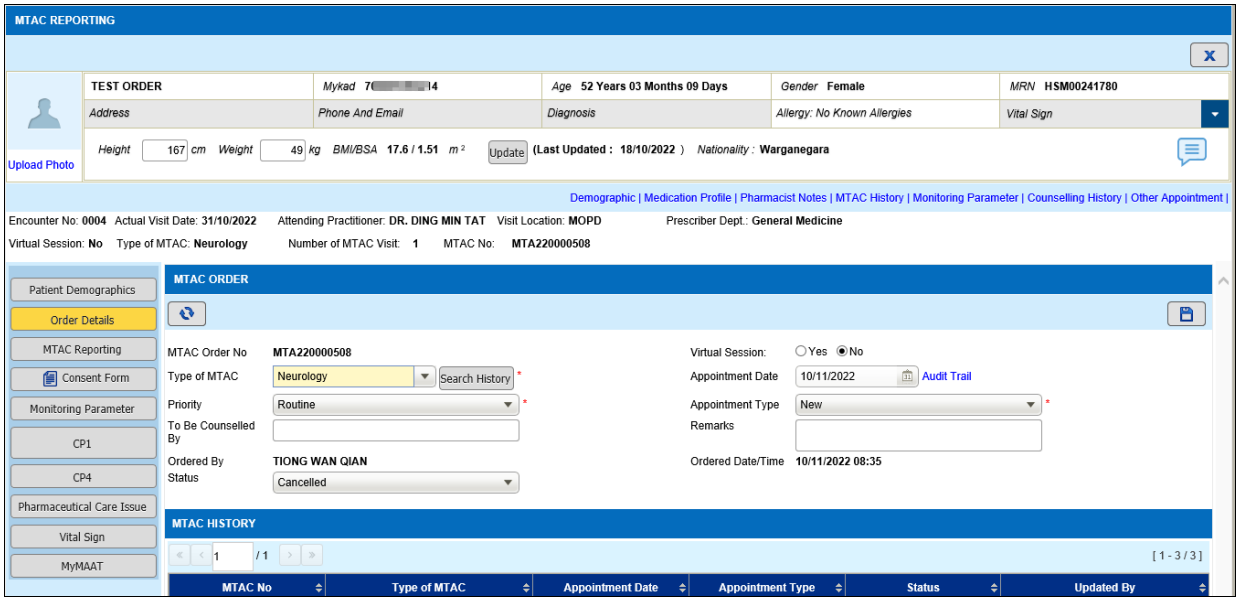



**Figure 3.1.4-5 MTAC Order**

**STEP 6**

Click on the button to save MTAC Order

***Note***

- *Confirmation message will display as figure 3.1.4-6*

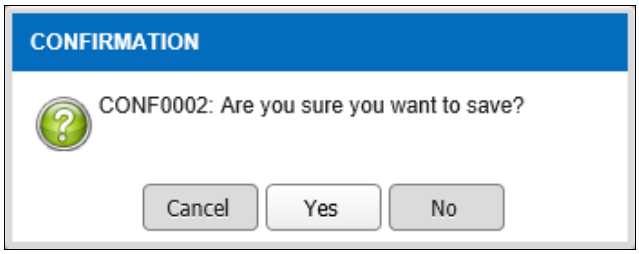
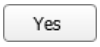



**Figure 3.1.4-6 Confirmation Message**

- *Click on the*  *button to save the MTAC Order and Information message will display as figure 3.1.4-7*

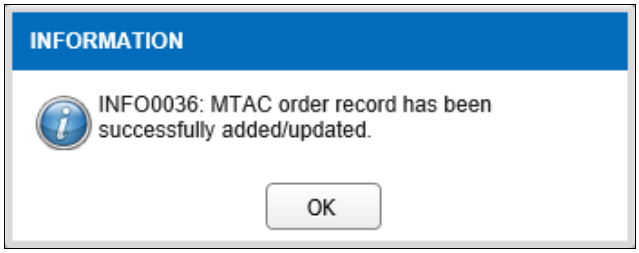



**Figure 3.1.4-7 Information Message**

- *Click on the* *button to confirmed*

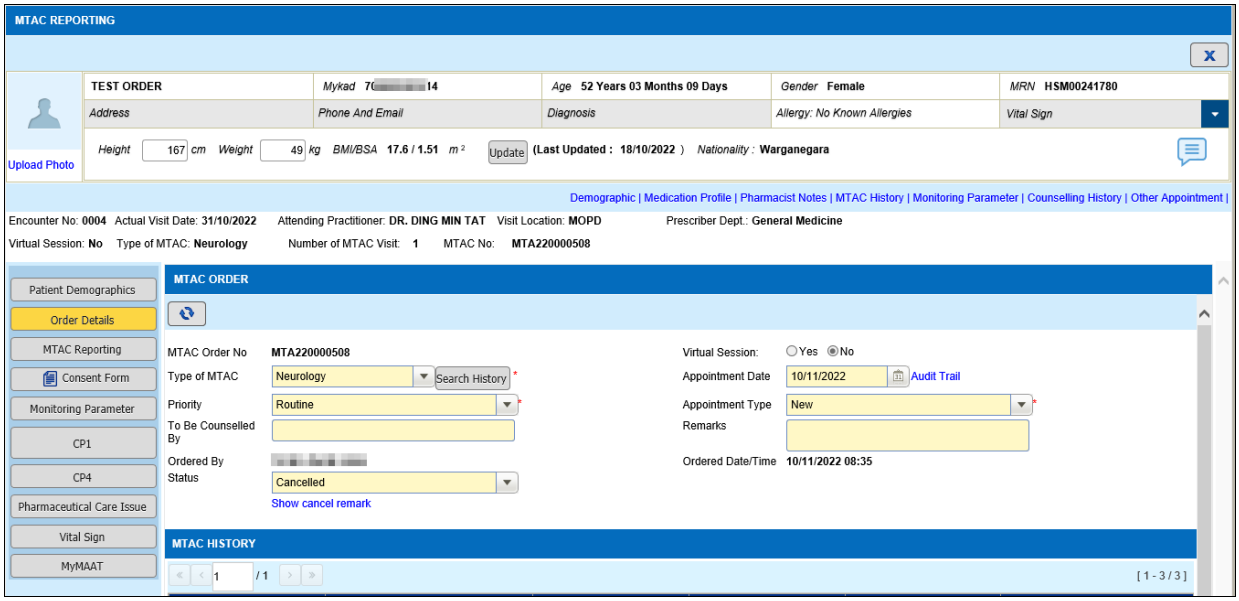



**Figure 3.1.4-8 MTAC Order**

***Note***

*User can view cancel remarks by click on* Show cancel remark *hyperlink*

## 3.2 MTAC Reporting

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

### 3.2.1 MTAC Reporting with No Specific Details

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

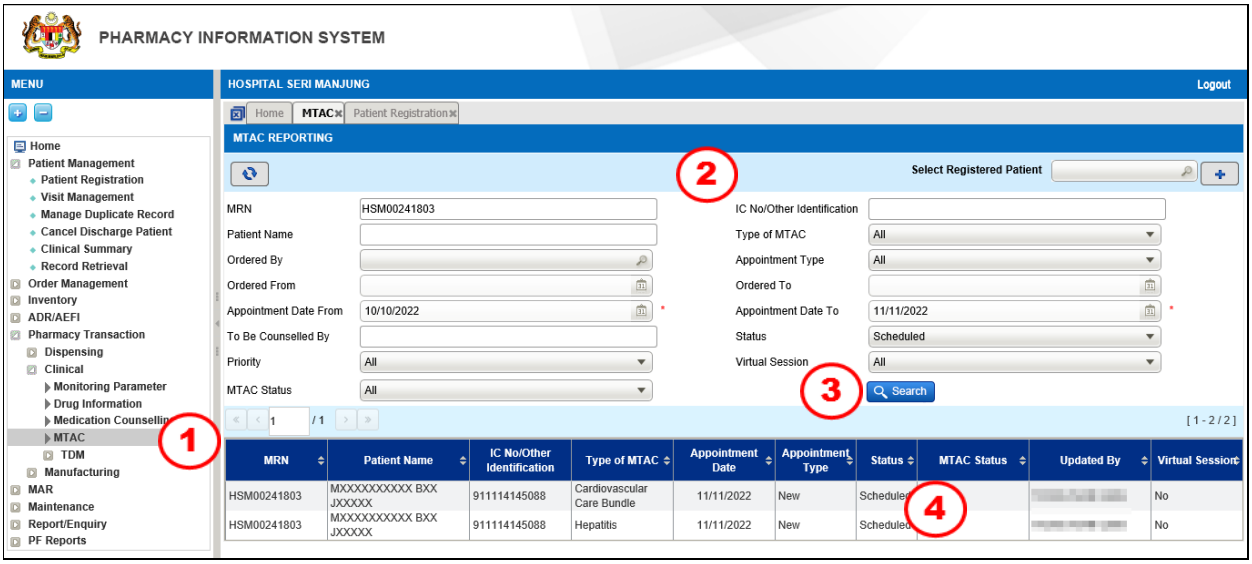



**Figure 3.2.1-1 MTAC**

**STEP 1**
Click on 'Pharmacy Transaction' menu followed by 'Clinical' then 'MTAC' sub menu

**STEP 2**
Search for existing patient record by below criteria:

| Field | Description | Remark |
|---|---|---|
| MRN | Patient Medical Record Number | Search option:<br>Type the MRN either full or partial:<br>Example: HPSF00001234 or "1234" |
| IC No/ Other Identification | Identification Number | Allow to search by full or partial ID Number |
| Patient Name | Patient Name | Allow to search by patient full name or partial |
| Type of MTAC | Type of MTAC | Able to filter and search by type of MTAC order |
| Ordered by | Ordered by | Able to filter and search by ordered by |
| Appointment Type | - All<br>- Follow Up<br>- New | Able to filter and search by appointment type |
| Ordered from | Ordered from | Able to filter and search by ordered from |
| Ordered to | Ordered to | Able to filter and search by ordered to |
| Appointment Date From | Appointment Date From | Able to filter and search by appointment date before |
| Appointment Date To | Appointment Date To | Able to filter and search by appointment date the latest |
| To Be Counselled by | To Be Counselled by | Able to filter and search by to be counselled by |
| Status | - All | Able to filter and search by status |

| | | |
|---|---|---|
| | - Scheduled<br>- Cancelled<br>- In Progress<br>- Completed | |
| Priority | - All<br>- Urgent<br>- Routine | Able to filter and search by priority |
| Virtual Session | - All<br>- Yes<br>- No | Able to filter and search by Virtual Session |
| MTAC Status | - All<br>- Defaulted<br>- Discharged<br>- Need Follow Up | Able to filter and search by MTAC Status |

**Figure 3.2.1-1 Table**

**STEP 3**

Click on the Search button to search the patient

**STEP 4**

Double click on the selected patient and MTAC Reporting screen will be display as figure 3.2.1-2

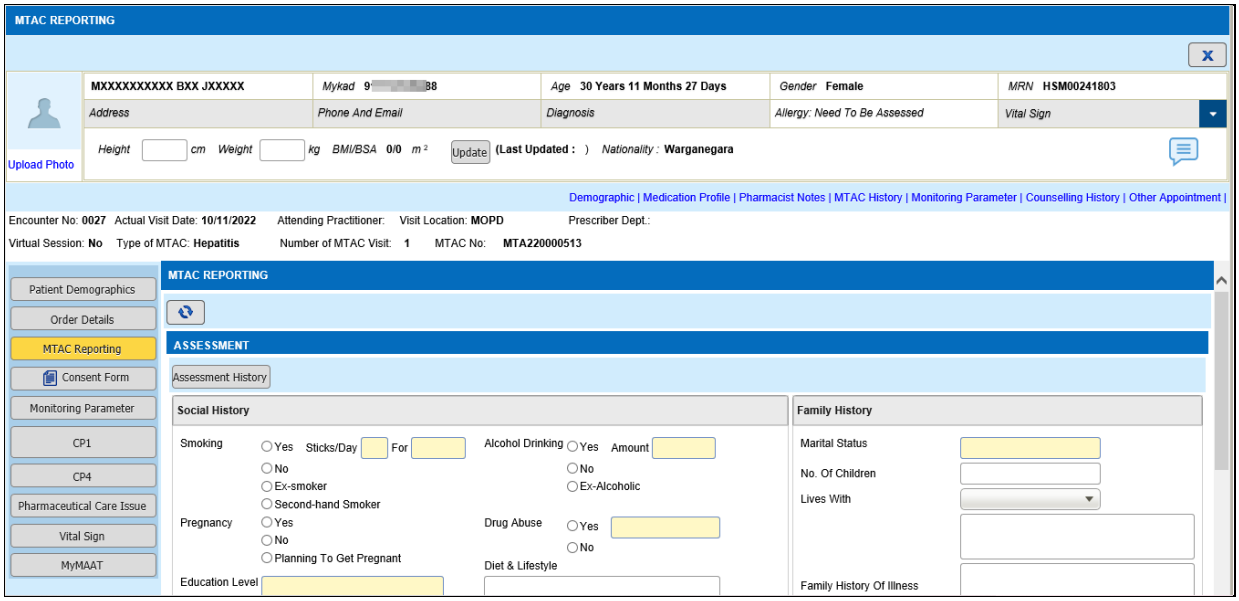



**Figure 3.2.1-2 MTAC Reporting**

***Note***

*User is allowed to print patient consent form by click on the* Consent Form *button and Consent Form screen will be displayed as figure 3.2.1-3*

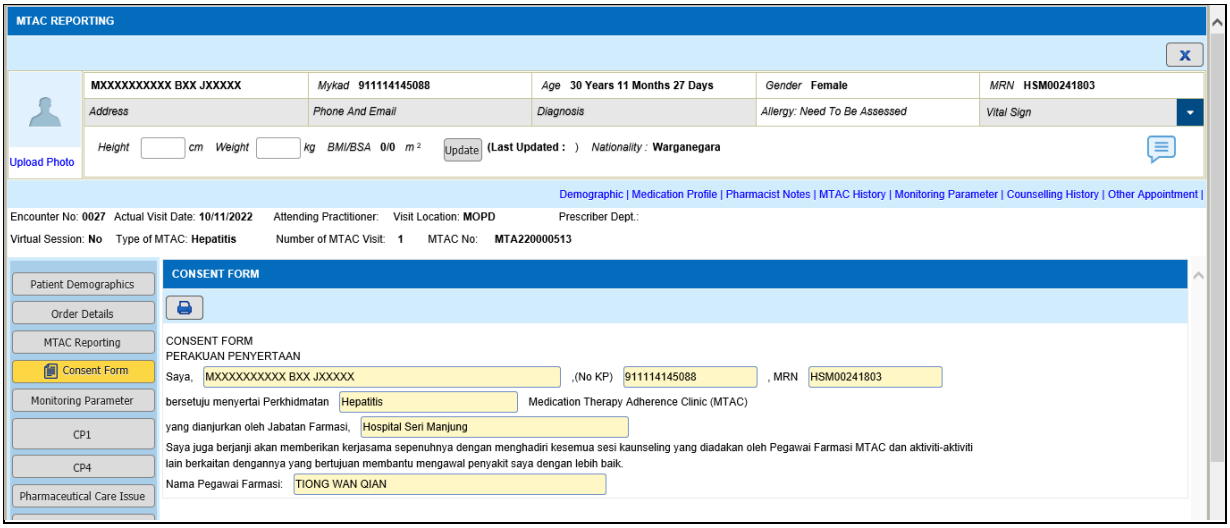



**Figure 3.2.1-3 Consent Form**

***Note***

- *Click on the* *button to view and print consent form and Confirmation Message will displayed as figure 3.2.1-4*

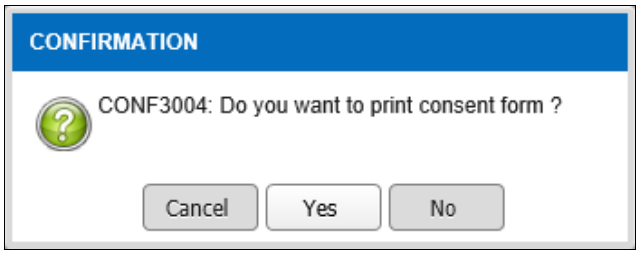



**Figure 3.2.1-4 Confirmation Message**

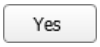
- *Click on the*  *button and consent form will be displayed as figure 3.2.1-5*

**Figure 3.2.1-5 Consent Form**

***Note***

*Close the Consern Form screen and click on the* MTAC Reporting *button to proceed with MTAC Reporting*

**Social History and Family History**

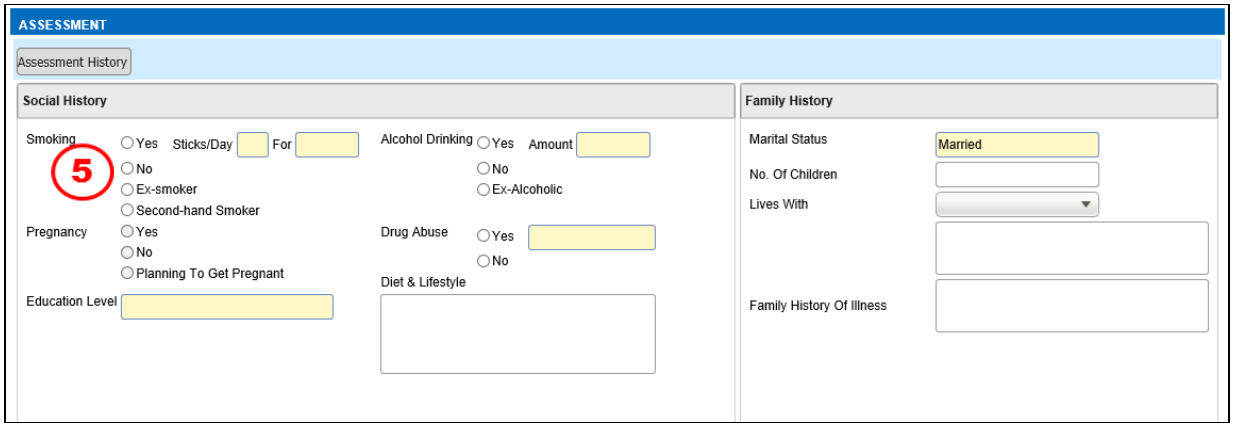



**Figure 3.2.1-6 Social and Family History**

***Note***

- *User is allowed to copy assessment from previous reporting by click on the button and Assessment History window will displayed as figure 3.2.1-7*

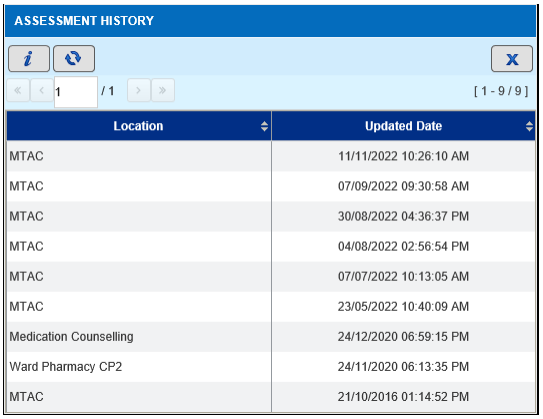



**Figure 3.2.1-7 Assessment History**

- *Click on the selected history reporting and system will auto fill all the assessment based on the previous completed reporting*

**STEP 5**

Select on ***Smoking*** radio button

- Yes
- No
- Ex-smoker
- Second-hand Smoker

***Note***

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

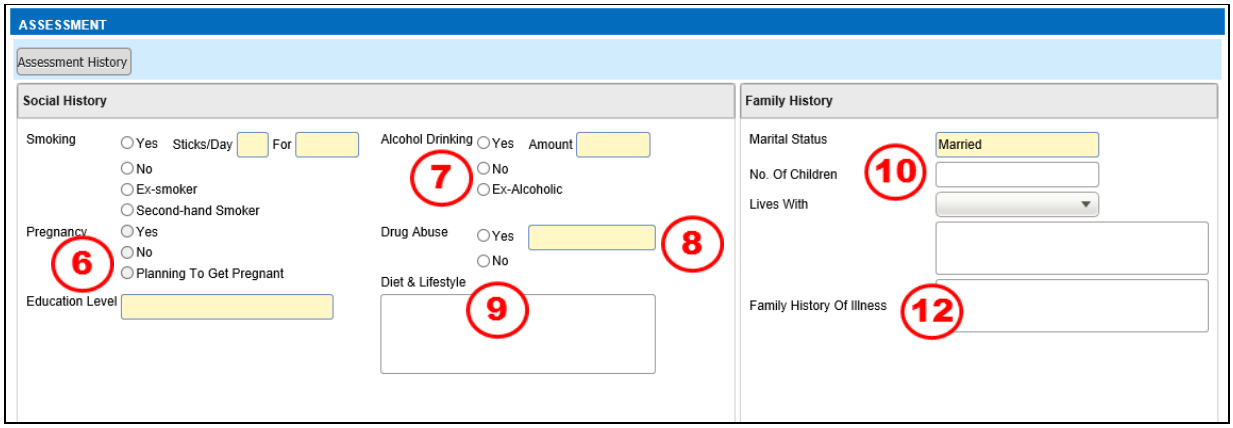



**Figure 3.2.1-8 Social and Family History**

**STEP 6**
Select on **Pregnancy** radio button
- Yes
- No
- Planning to Get Pregnant

***Note***
***Pregnancy*** *field will be enabled if the patient gender is female*

**STEP 7**
Select on **Alcohol Drinking** radio button
- Yes
- No
- Ex-Alcoholic

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

**STEP 8**
Select ***Drug Abuse*** radio button
- Yes
- No

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

**STEP 9**
Enter ***Diet & Lifestyle***

***Note***
***Education Level*** *and* ***Marital Status*** *information will be retrieved from Patient's Demographic*

**STEP 10**
Enter ***No. Of Children***

**STEP 11**
Select ***Lives with*** from the drop-down box and user allow to enter blank field
- Alone
- Family Members
- Nursing Home
- Others

**STEP 12**
Enter ***Family History of Illness***

**Medical History**

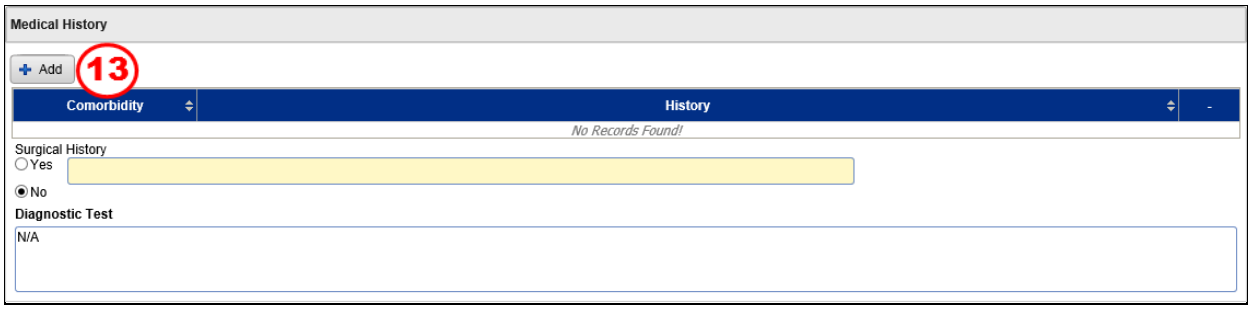



**Figure 3.2.1-8 Medical History**

**STEP 13**
Click on the Add button to add in comorbidity

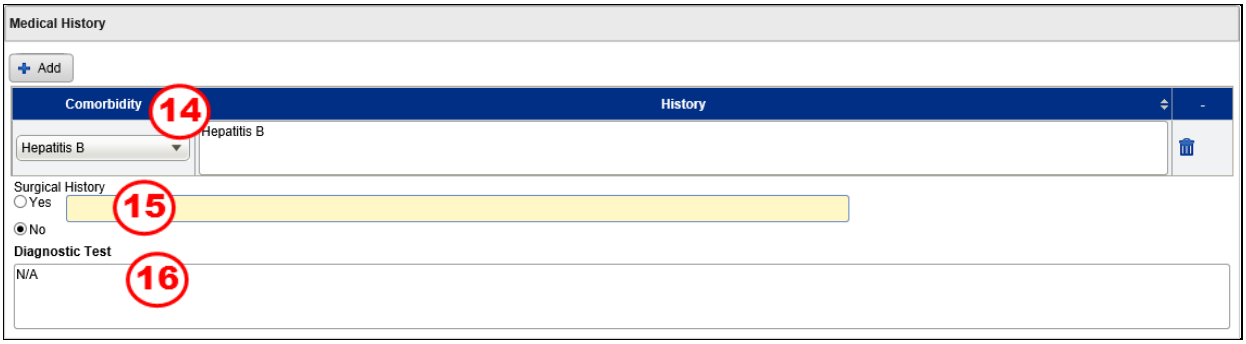



**Figure 3.2.1-9 Medical History**

**STEP 14**
Select ***Comorbidity*** from drop-down list and enter ***History***

***Note***

- *User is allowed to add multiple comorbidity information by repeat step 13 and 14*
- *User is allowed to remove comorbidity record by click on the button*

**STEP 15**
Select ***Surgical History*** radio button
- Yes
- No

***Note***
*If yes selected for Surgical History, user can enter remarks at free text column*

**STEP 16**
Enter ***Diagnostic Test***

## Past Medication History

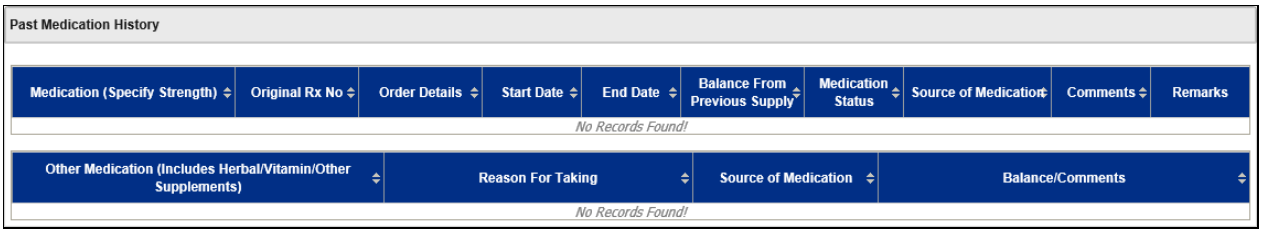



**Figure 3.2.1-10 Past Medication History**

***Note***

- *Past Medication History information will be based on recorded at CP1*

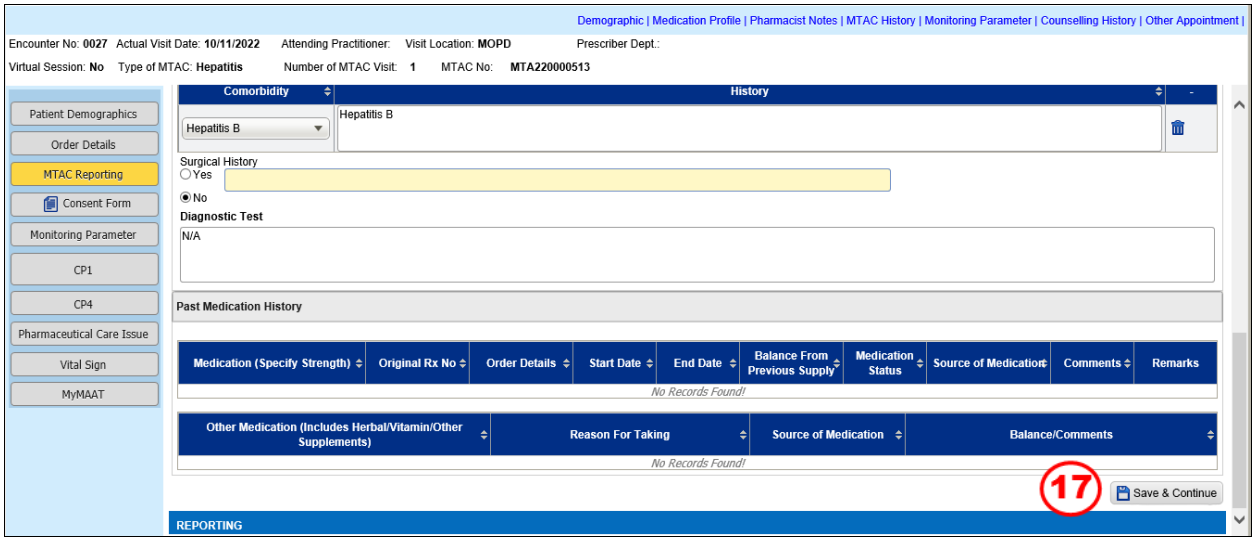



**Figure 3.2.1-11 MTAC Reporting**

**STEP 17**

Click on the Save & Continue button to save

***Note***

- *Confirmation message will display as figure 3.2.1-12*

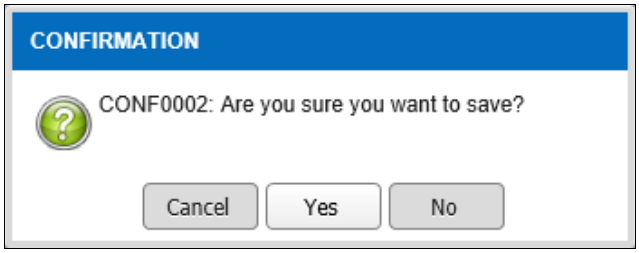



**Figure 3.2.1-12 Confirmation Message**

- *Click on the Yes button to save and Information message will display as figure 3.2.1-13*

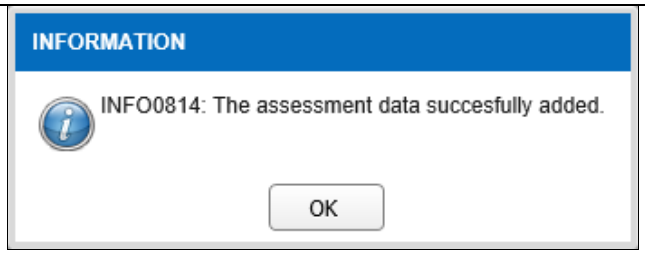



**Figure 3.2.1-13 Information Message**

- *Click on the* OK *button to confirmed*
- *Status will be updated as In-Progress*
- *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*

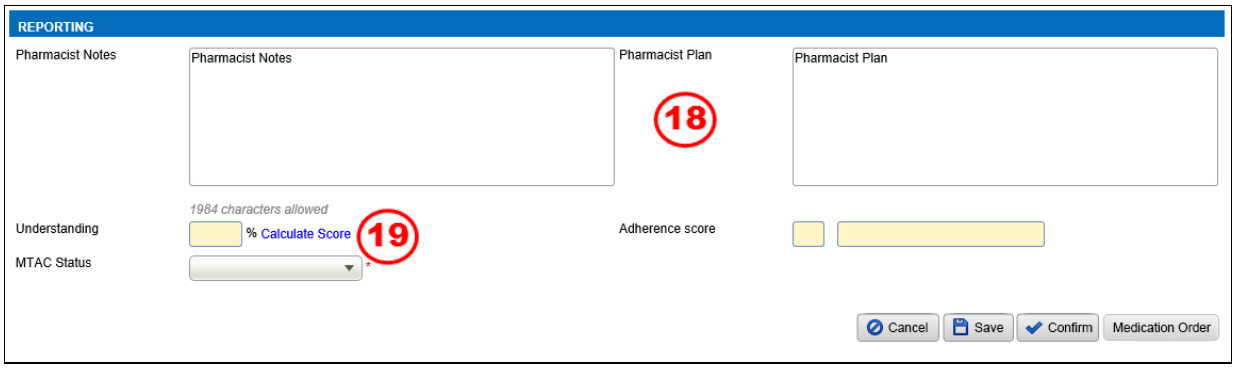



**Figure 3.2.1-14 Reporting**

**STEP 18**
Enter ***Pharmacist Notes*** and ***Pharmacist Plan***

**STEP 19**
Click on the ***Understanding*** Calculate Score link and Review of Patient's Understanding (Medication) DFIT screen will displayed as figure 3.2.1-15

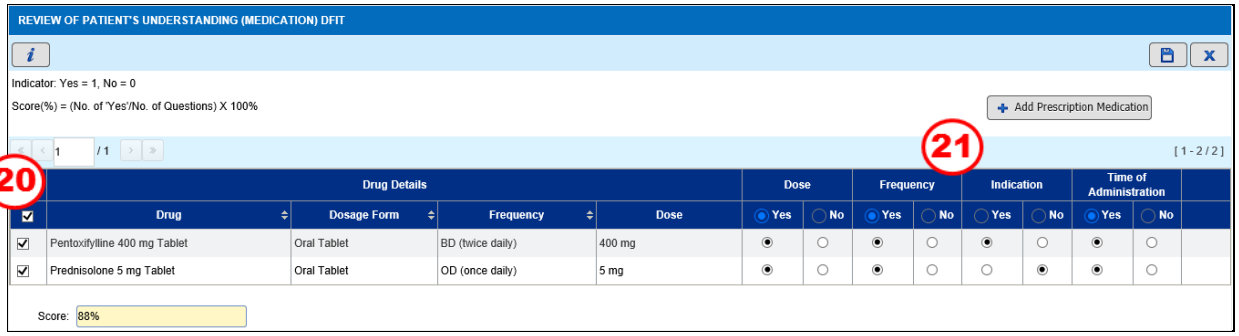



**Figure 3.2.1-15 Review of Patient's Understanding (Medication) DFIT**

***Note***
*System will auto capture existing drugs ordered for patient in Drug details*

**STEP 20**

Click at the checkbox to select drug

**STEP 21**

Select ***Dose***, ***Frequency***, ***Indication and Time of Administration*** from the radio button:

- Yes
- No

***Note***

- *Score will be automatically calculated and displayed*
- *User able to add additional drugs by clicking at* Add Prescription Medication *button to add new Prescription medication*

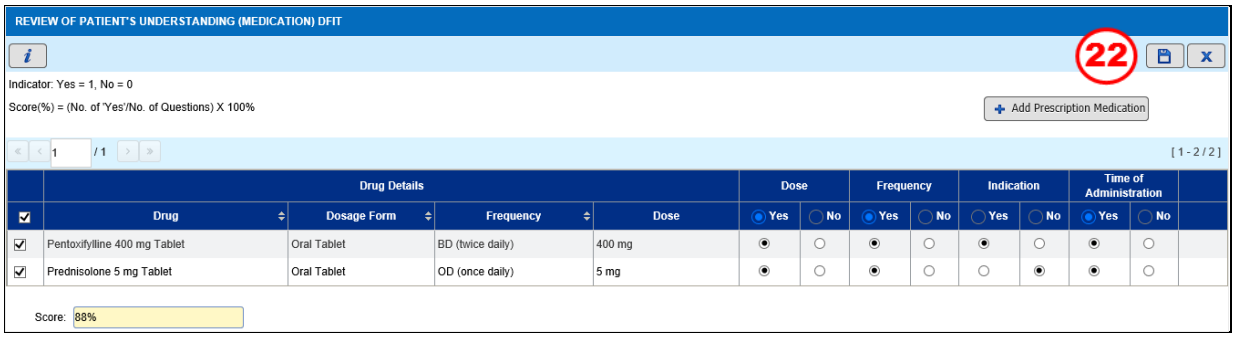



**Figure 3.2.1-16 Review of Patient's Understanding (Medication) DFIT**

**STEP 22**

Click on the button to save

***Note***

- *Confirmation message will display as figure 3.2.1-17*

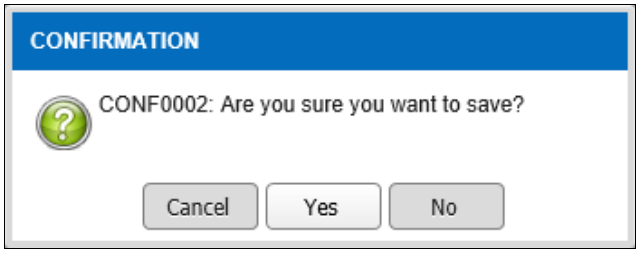



**Figure 3.2.1-17 Confirmation Message**

- *Click on the* Yes *button to save*

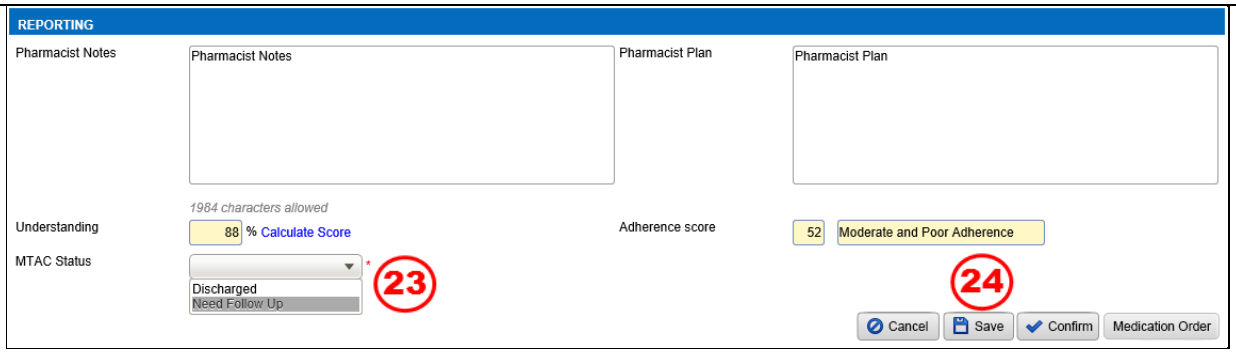



**Figure 3.2.1-18 Reporting**

***Note***

- *Adherence Score is based on MyMAAT record*
- *Refer section 3.2.3 MyMAAT section*

**STEP 23**

Select ***MTAC Status*** from the drop-down box
- Discharged
- Need Follow Up

**STEP 24**

Click on the button

***Note***

- *Confirmation message will display as figure 3.2.1-19*

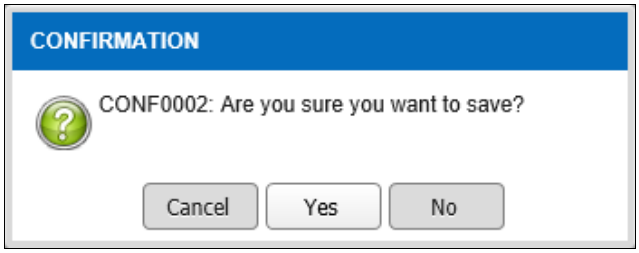



**Figure 3.2.1-19 Confirmation Message**

- *Click on the* Yes *button to save the MTAC Order and Information message will display as figure 3.2.1-20*

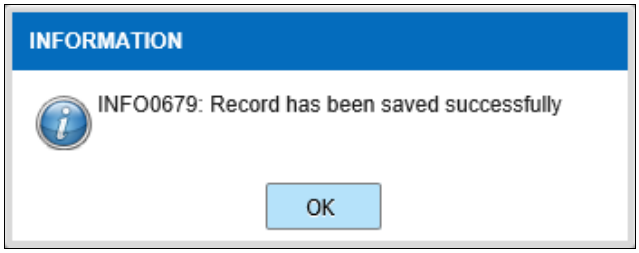



**Figure 3.2.1-20 Information Message**

- *Click on the* OK *button to confirmed*

- *User is allowed to cancel MTAC reporting by click on the* Cancel *button and confirmation message will be displayed as figure 3.2.1-21*

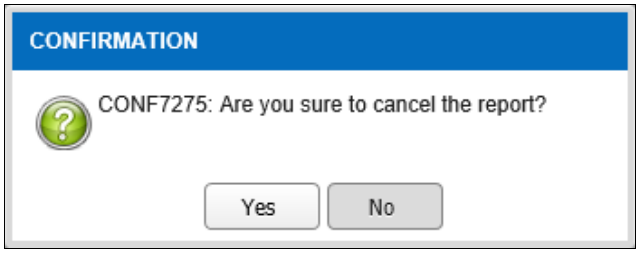



**Figure 3.2.1-21 Confirmation Message**

*Click on the* Yes *button to cancel the report and status will updated to Cancelled*

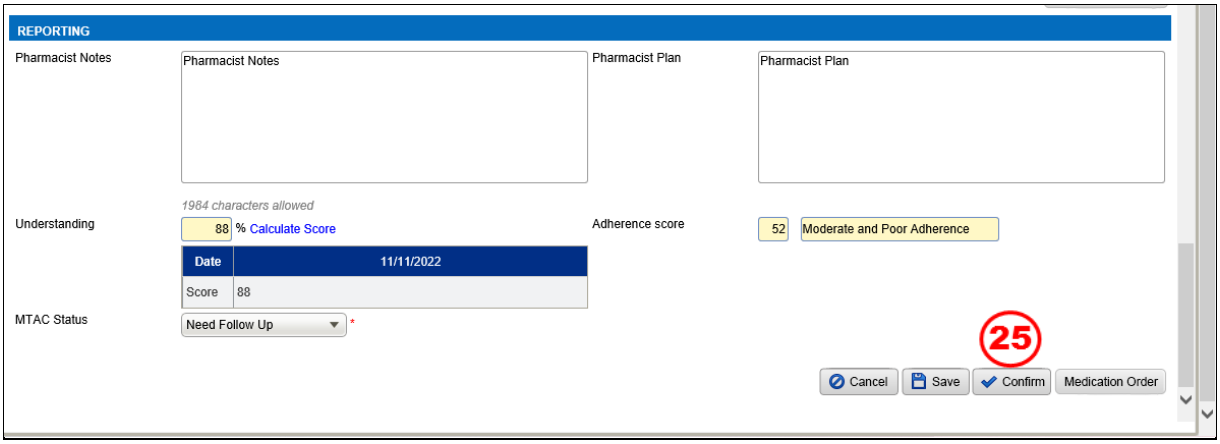



**Figure 3.2.1-22 Reporting**

**STEP 25**

Click on the Confirm button to confirm the reporting

***Note***

- *Confirmation message will display as figure 3.2.1-23*

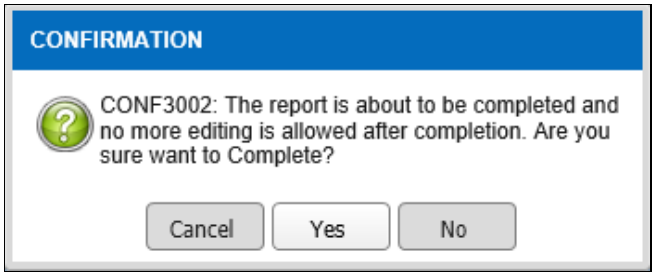



**Figure 3.2.1-23 Confirmation Message**

- *Click on the* Yes *button to confirm the reporting and status will updated to Confirmed*
- *Once user has confirmed the record, no more editing is allowed*

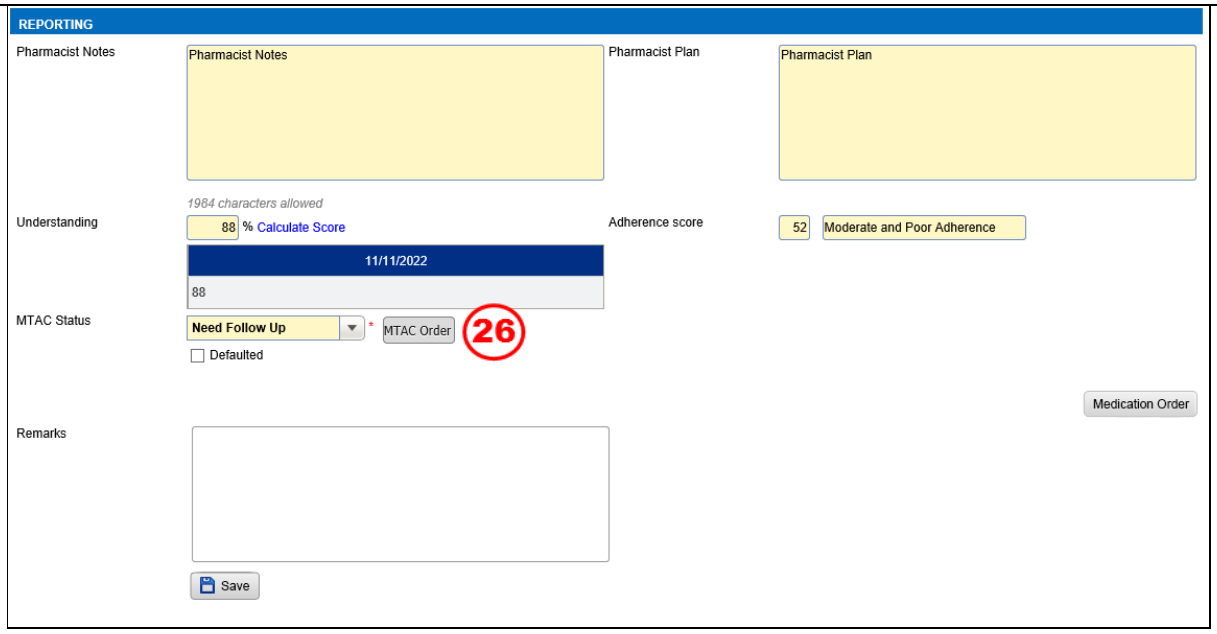



**Figure 3.2.1-24 MTAC Reporting**

***Note***

- *If user select **MTAC Status** as Need Follow Up, ☐ Defaulted checkbox will be displayed.If user checked on the Defaulted checkbox, MTAC Status will updated to Defaulted and previous MTAC Order for the same type MTAC of **MTAC Status** will updated to cancelled*
- *Once status is updated to Defaulted, Number of MTAC Visit will reset back to '1' if user create a same type MTAC order for the next appointment visit*
- ***Remarks** field will be display after user confirm/cancel MTAC Reporting. Entered remarks will display in MTAC report printing*
- *User is allowed to create Medication Order for the patient by click on the Medication Order button and medication order screen will appear*

**STEP 26**

Click on the MTAC Order button to schedule for next follow up appointment and MTAC order screen will display as per Figure 3.2.1-25

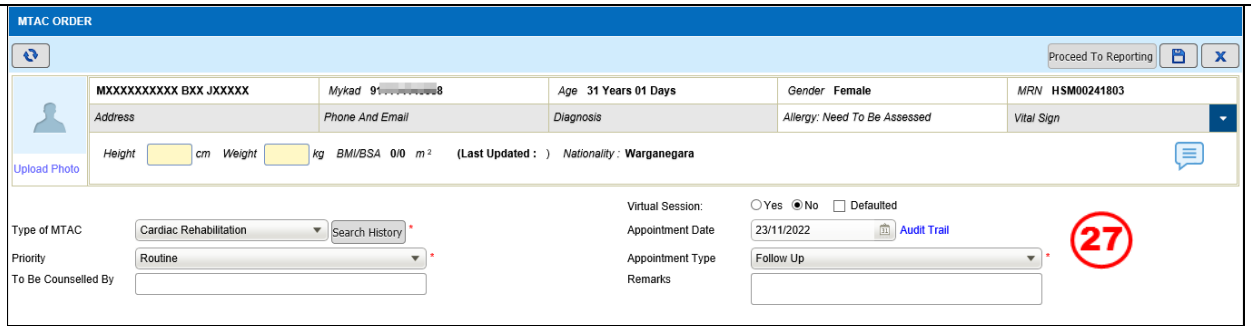



**Figure 3.2.1-25 MTAC Order**

***Note***

- ☐ *Defaulted checkbox will be displayed if MTAC Status is Need to Follow Up for the same previous type MTAC. If user checked on the Defaulted checkbox, MTAC Status will updated to Defaulted and previous MTAC Order for the same type MTAC of* ***MTAC Status*** *will updated to cancelled*

- *Once status is updated to Defaulted, Number of MTAC Visit will reset back to '1' if user create a same type MTAC order for the next appointment visit*

**STEP 27**

Schedule the follow up in the MTAC Order screen and the ***Follow Up Date*** will appear in the reporting screen as shown in Figure 3.2.1-26

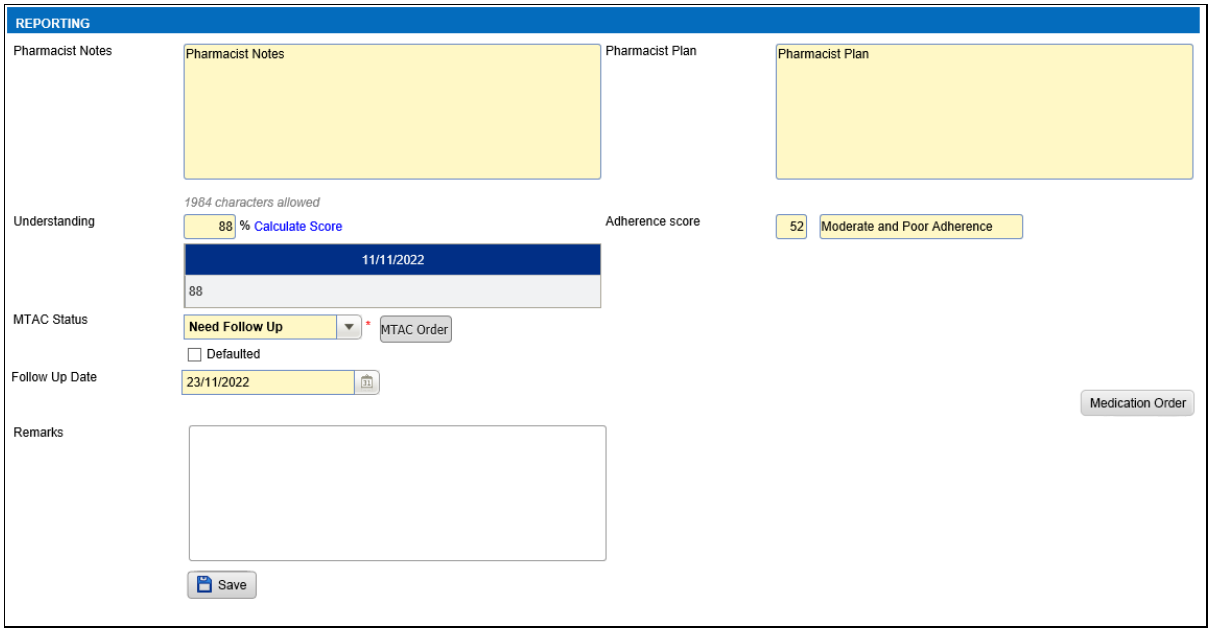



**Figure 3.2.1-26 MTAC Order**

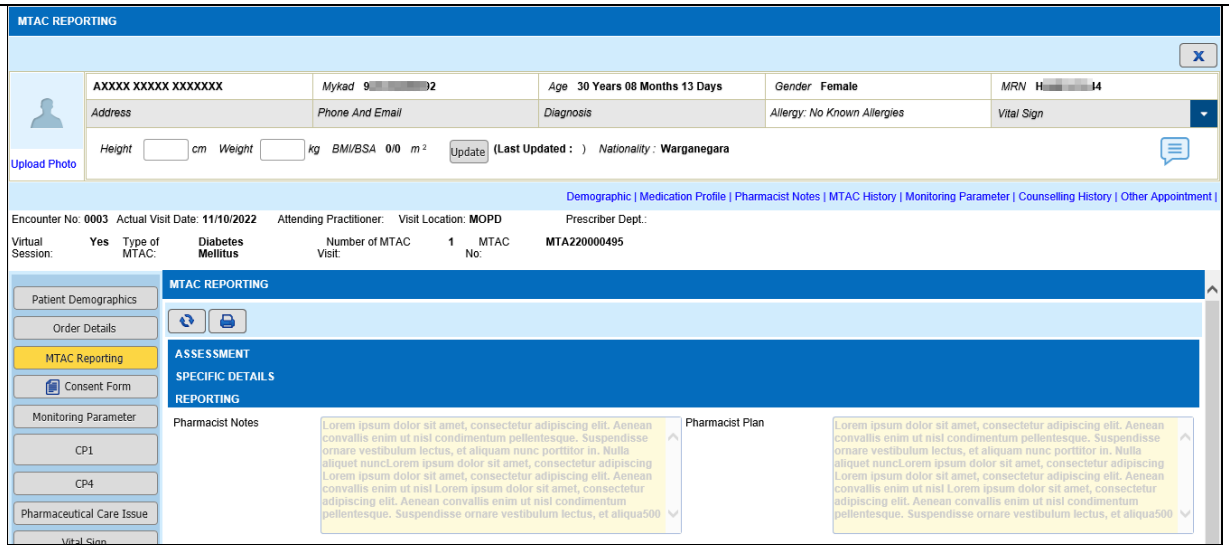
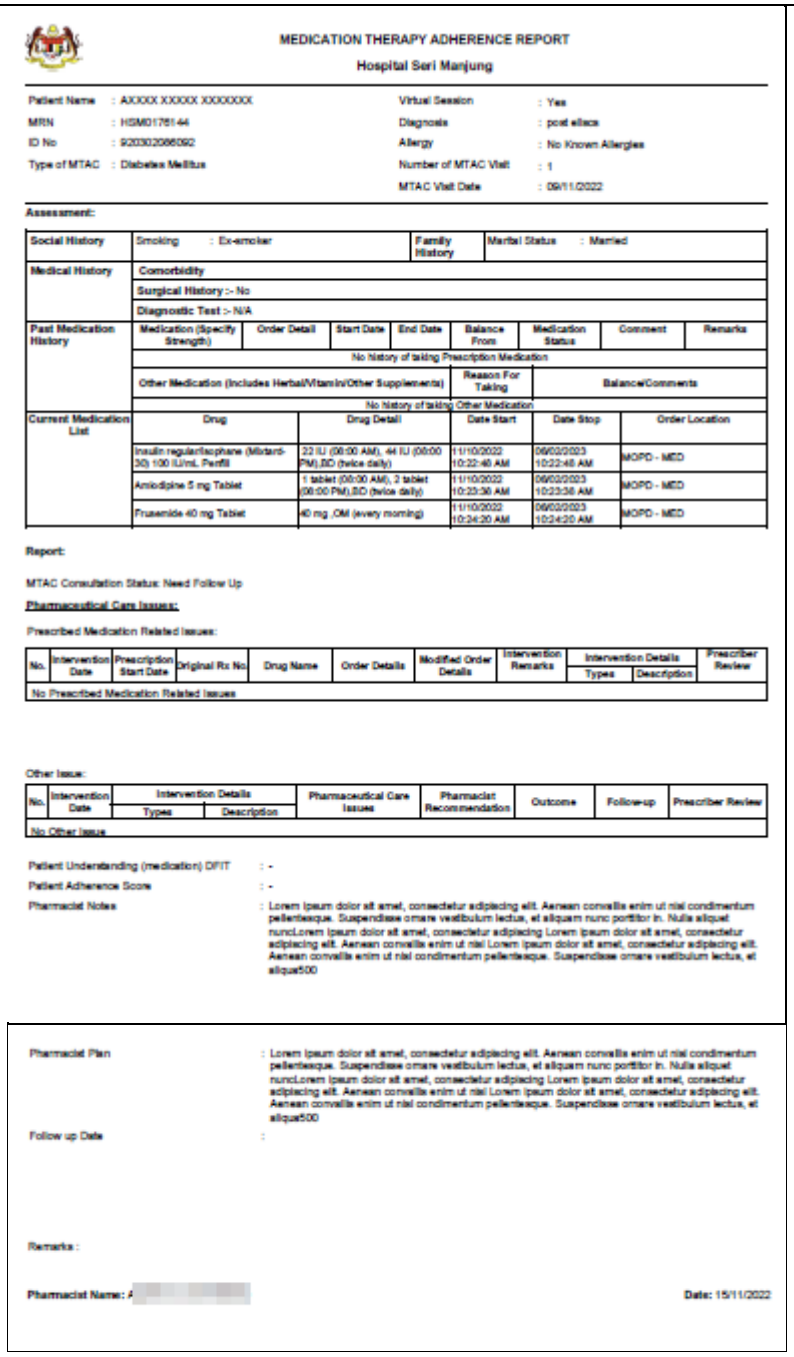



**Figure 3.2.1-27 MTAC Reporting**

**STEP 28**

Click on the button to view MTAC Reporting in PDF for printing



MEDICATION THERAPY ADHERENCE REPORT

Hospital Seri Manjung

| | | | |
|---|---|---|---|
| Patient Name | : AXXXX XXXXX XXXXXXX | Virtual Session | : Yes |
| MRN | : HSM0178144 | Diagnosis | : post ellace |
| ID No | : 920302066092 | Allergy | : No Known Allergies |
| Type of MTAC | : Diabetes Mellitus | Number of MTAC Visit | : 1 |
| | | MTAC Visit Date | : 09/11/2022 |

Assessment:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Social History | Smoking : Ex-smoker | | | Family History | Marital Status : Married | | |
| Medical History | Comorbidity | | | | | | |
| | Surgical History :- No | | | | | | |
| | Diagnostic Test :- N/A | | | | | | |
| Past Medication History | Medication (Specify Strength) | Order Detail | Start Date | End Date | Balance From | Medication Status | Comment | Remarks |
| | No history of taking Prescription Medication | | | | | | | |
| | Other Medication (Includes Herbal/Vitamin/Other Supplements) | | | | Reason For Taking | Balance/Comments | | |
| | No history of taking Other Medication | | | | | | | |

| Current Medication List | Drug | Drug Detail | Date Start | Date Stop | Order Location |
|---|---|---|---|---|---|
| | Insulin regular/isophane (Mixtard-30) 100 IU/mL Penfil | 22 IU (08:00 AM), 44 IU (08:00 PM),BD (twice daily) | 11/10/2022 10:22:40 AM | 06/02/2023 10:22:40 AM | MOPD - MED |
| | Amlodipine 5 mg Tablet | 1 tablet (08:00 AM), 2 tablet (08:00 PM),BD (twice daily) | 11/10/2022 10:23:30 AM | 06/02/2023 10:23:30 AM | MOPD - MED |
| | Frusemide 40 mg Tablet | 40 mg ,OM (every morning) | 11/10/2022 10:24:20 AM | 06/02/2023 10:24:20 AM | MOPD - MED |

Report:

MTAC Consultation Status: Need Follow Up

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 | |
| No Prescribed Medication Related Issues | | | | | | | | | | |

Other Issue:

| No. | Intervention Date | Intervention Details | | Pharmaceutical Care Issues | Pharmacist Recommendation | Outcome | Follow-up | Prescriber Review |
|---|---|---|---|---|---|---|---|---|
| | | Types | Description | | | | | |
| No Other Issue | | | | | | | | |

Patient Understanding (medication) DFIT : -

Patient Adherence Score : -

Pharmacist Notes : Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl condimentum pellentesque. Suspendisse ornare vestibulum lectus, et aliquam nunc porttitor in. Nulla aliquet nuncLorem ipsum dolor sit amet, consectetur adipiscing Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl condimentum pellentesque. Suspendisse ornare vestibulum lectus, et aliqua500

Pharmacist Plan : Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl condimentum pellentesque. Suspendisse ornare vestibulum lectus, et aliquam nunc porttitor in. Nulla aliquet nuncLorem ipsum dolor sit amet, consectetur adipiscing Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl condimentum pellentesque. Suspendisse ornare vestibulum lectus, et aliqua500

Follow up Date :

Remarks :

Pharmacist Name: A[redacted] Date: 15/11/2022

**Figure 3.2.1-28 MTAC Reporting PDF**

### 3.2.2 MTAC Reporting with Specific Details

#### 3.2.2.1 Chronic Kidney Disease

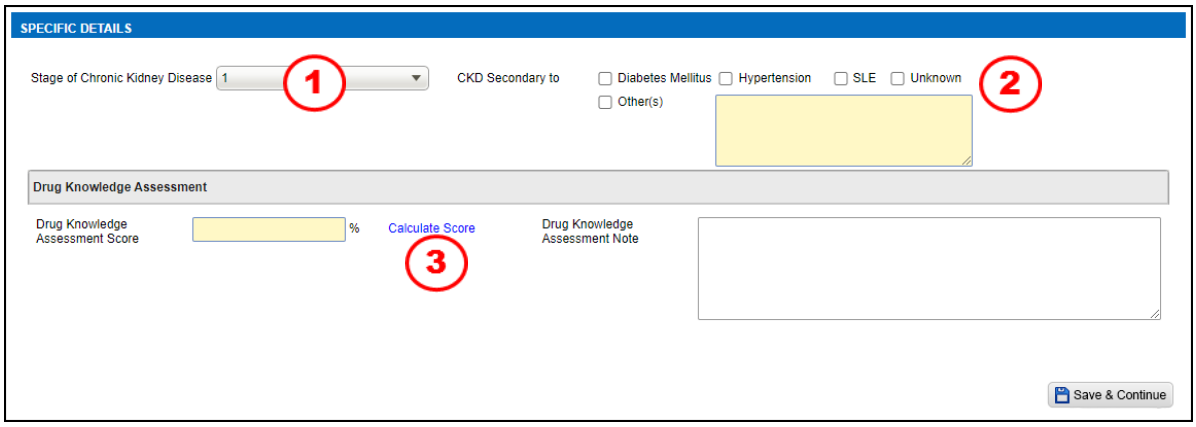



**Figure 3.2.2.1-1 Specific Details – Chronic Kidney Disease**

***Note***

*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Chronic Kidney Disease.*

**STEP 1**

Select ***Stage of Chronic Kidney Disease*** from the dropdown box

**STEP 2**

Select the checkbox for ***CKD Secondary to***

***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 3.2.2.1-2

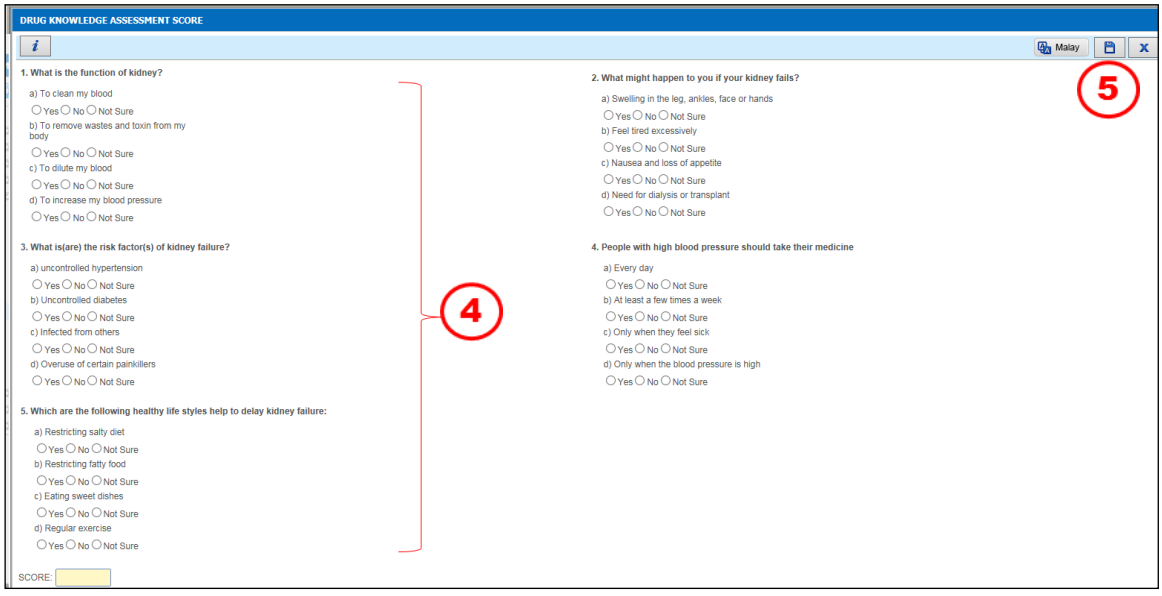



**Figure 3.2.2.1-2 Drug Knowledge Assessment Score**

**STEP 4**
Answer the questions for ***Drug Knowledge Assessment*** by checking the radio button

***Note***

- *The questions are not mandatory to be answered.*
- *Click on the* Malay *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 Yes button to confirm save record

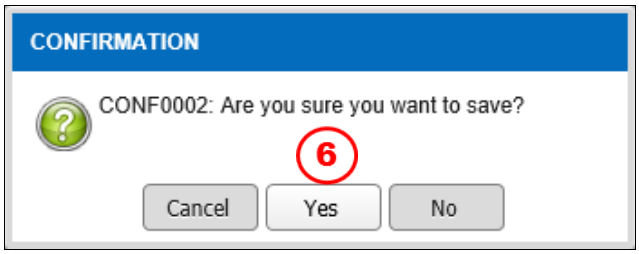



**Figure 3.2.2.1-3 Confirmation Alert Message**

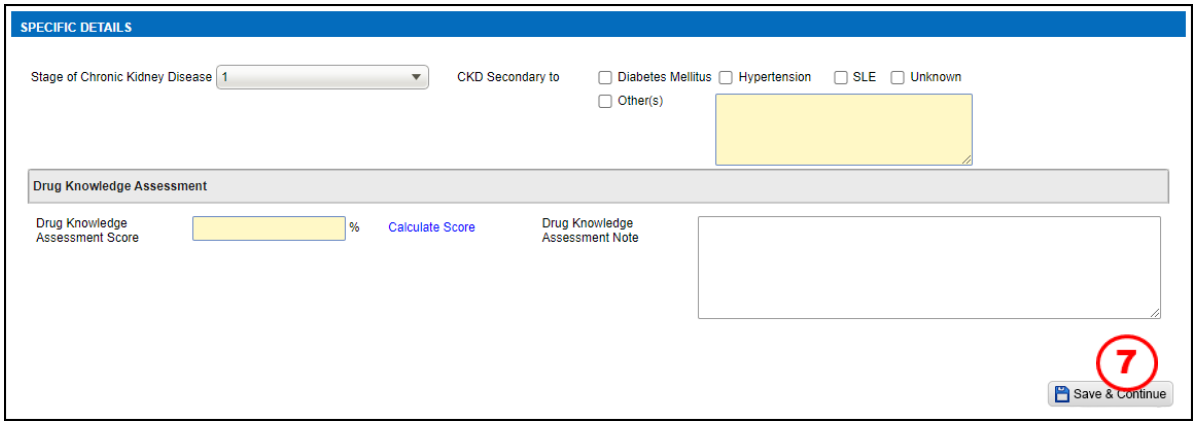



**Figure 3.2.2.1-4 Specific Details – Chronic Kidney Disease**

***Note***

Insert ***Drug Knowledge Assessment Note*** in the free if applicable

**STEP 7**

Click on the Save & Continue button to save and continue with reporting section

**STEP 8**

Click on the Yes button to confirm save record

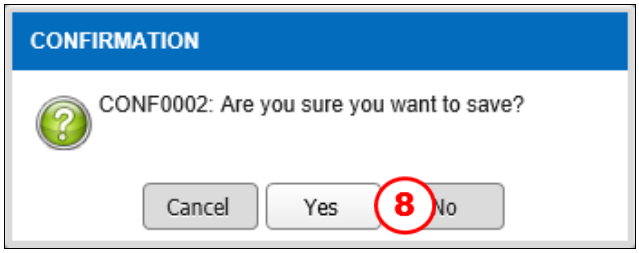



**Figure 3.2.2.1-5 Confirmation Alert Message**

**STEP 9**

Click on the OK button to confirm record

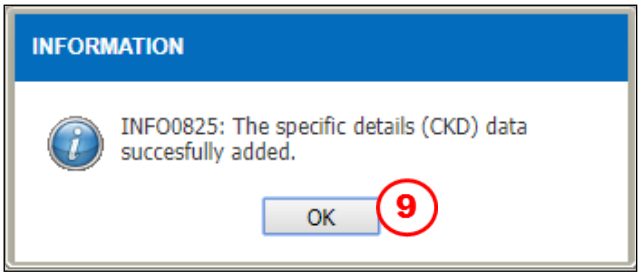



**Figure 3.2.2.1-6 Information alert message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.2 Diabetes Mellitus

**Figure 3.2.2.2-1 Specific Details - Diabetes Mellitus**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details Assessment Form for Diabetes Mellitus.*

**STEP 1**
Click on the Assessment Form For Diabetes Mellitus button to view the specific details

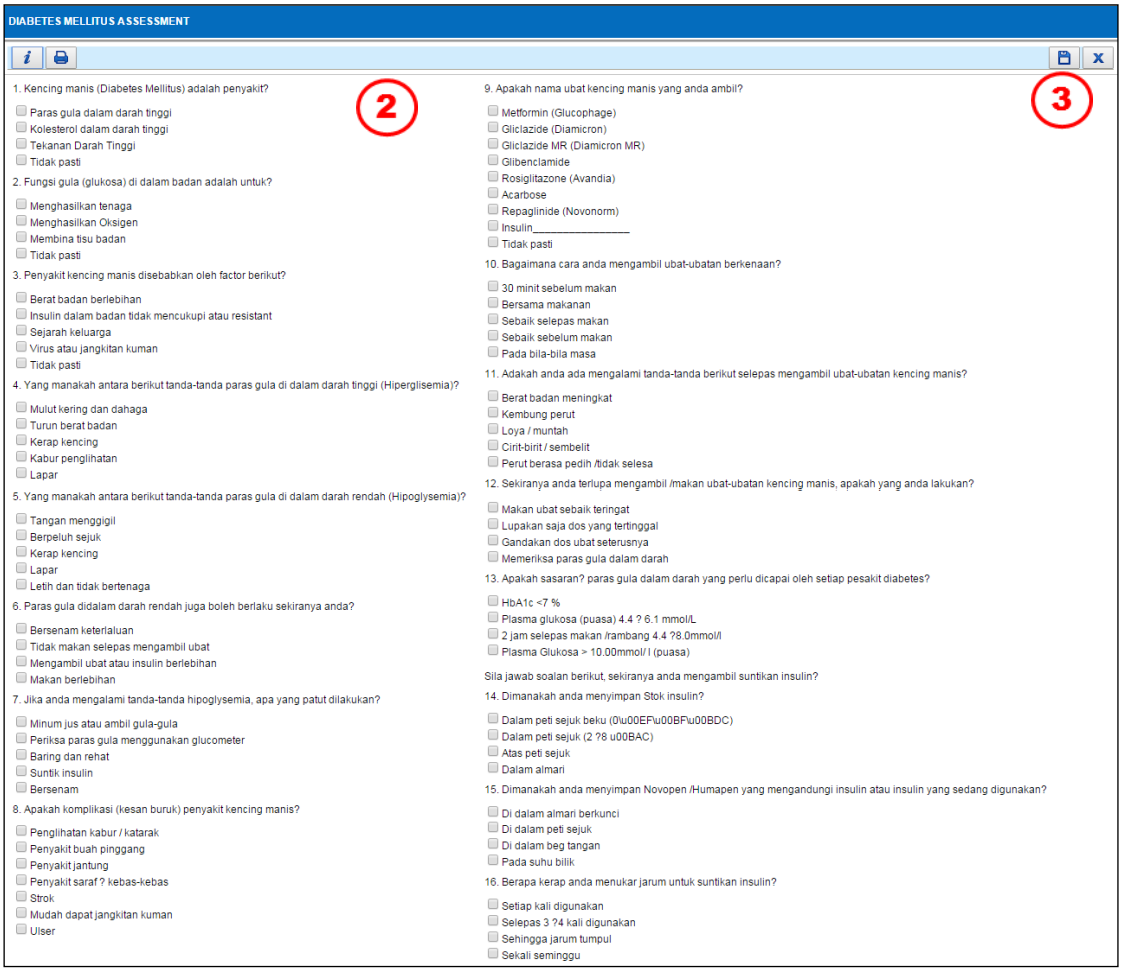



**Figure 3.2.2.2-2 Diabetes Mellitus Assessment**

**STEP 2**
Select the checkbox 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' will be used during MTAC counselling*

**STEP 3**

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

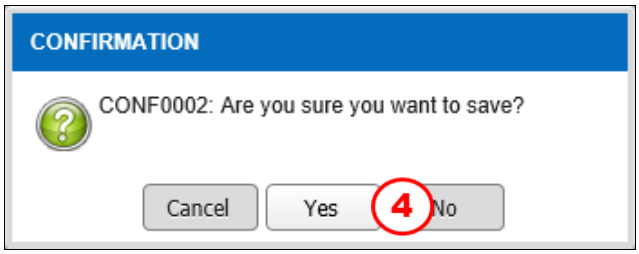



**Figure 3.2.2.2-3 Confirmation Alert Message**

**STEP 4**

Click on the Yes button to confirm save record

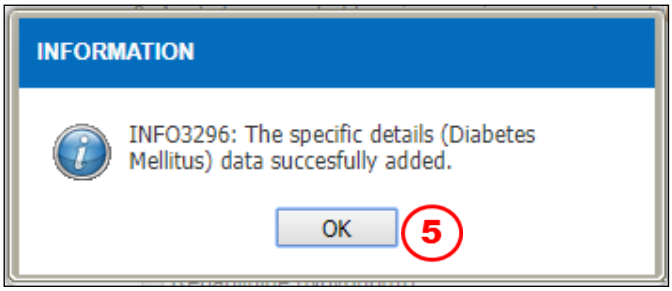



**Figure 3.2.2.2-4 Information Alert Message**

**STEP 5**

Click on the OK button to confirm record

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.3 Dialysis

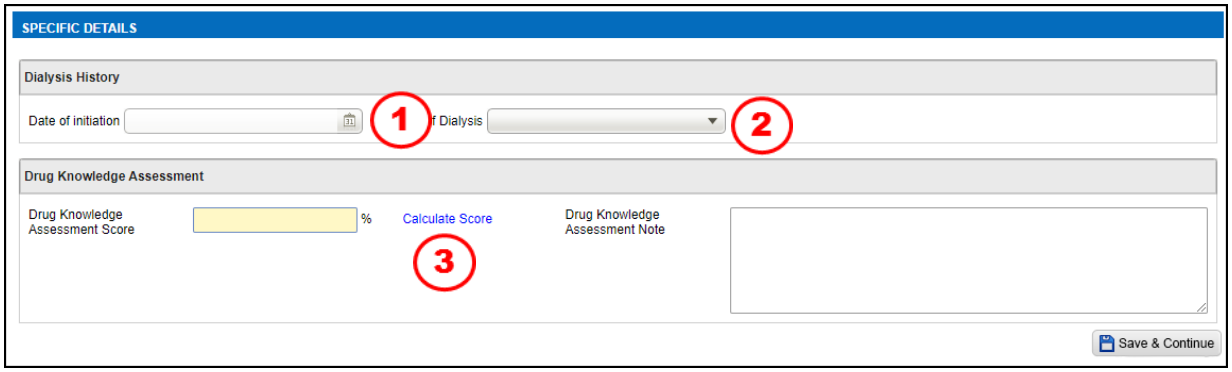



**Figure 3.2.2.3-1 Specific Details - Dialysis**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Dialysis.*

**STEP 1**

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

**STEP 2**
Select ***Type of Dialysis*** from the dropdown box

**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 3.2.2.3-2

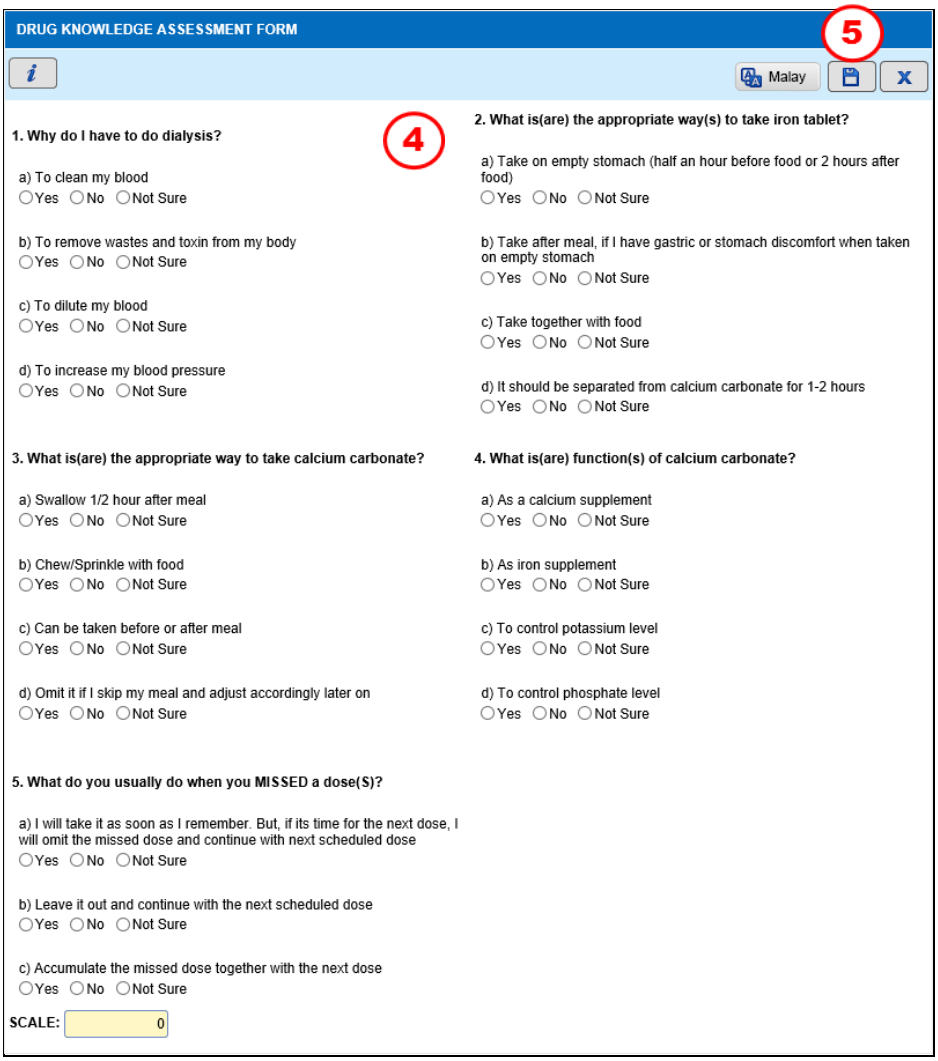



**Figure 3.2.2.3-2 Specific Details - Dialysis**

**STEP 4**

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

***Note***

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

**STEP 5**

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

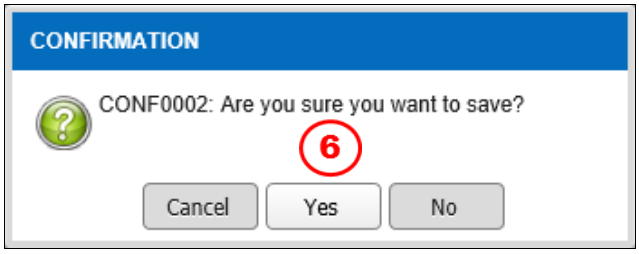



**Figure 3.2.2.3-3 Confirmation Alert Message**

**STEP 6**

Click on the Yes button to confirm save record

***Note***

*Insert **Drug Knowledge Assessment Note** in the free text if applicable*

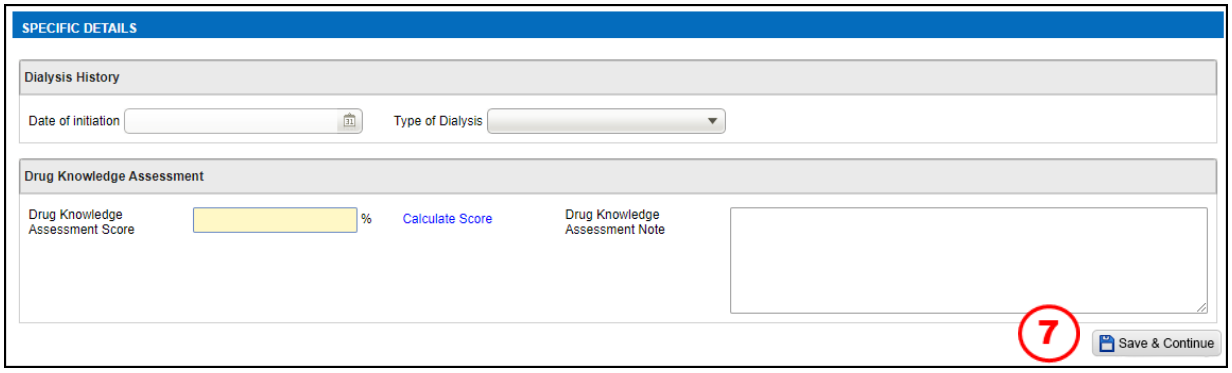



**Figure 3.2.2.3-4 Specific Details**

**STEP 7**

Click on the Save & Continue button to save and continue with reporting section

**STEP 8**

Click on the Yes button to confirm save record

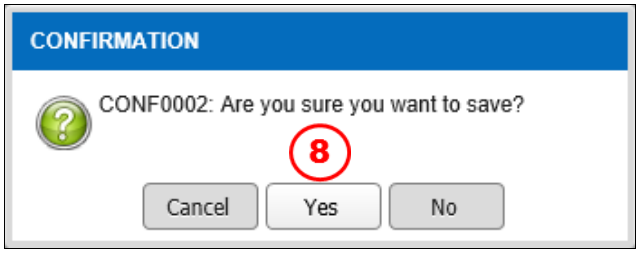



**Figure 3.2.2.3-5 Confirmation Alert Message**

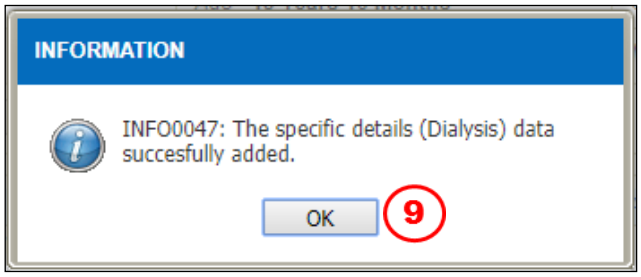



**Figure 3.2.2.3-6 Information alert message**

**STEP 9**

Click on the OK button to confirm record

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.4 Geriatric

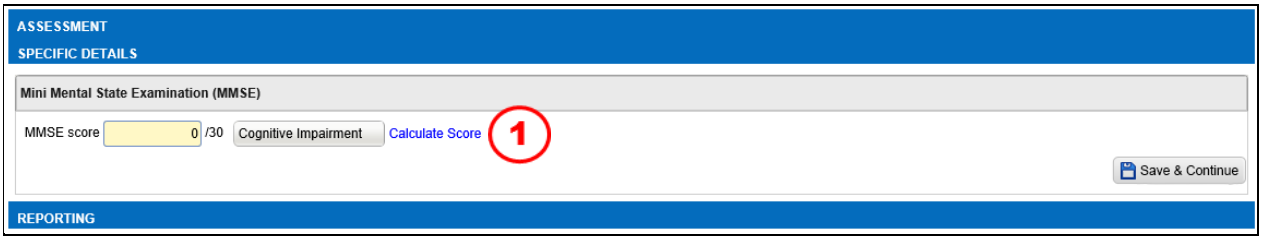



**Figure 3.2.2.4-1 Specific Details – Geriatric**

***Note***

*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Geriatric*

**STEP 1**

Click on the Calculate Score hyperlink and '*Mini Mental State Examination (MMSE) – Orientasi Masa' window* will be displayed as shown in Figure 3.2.2.4-2

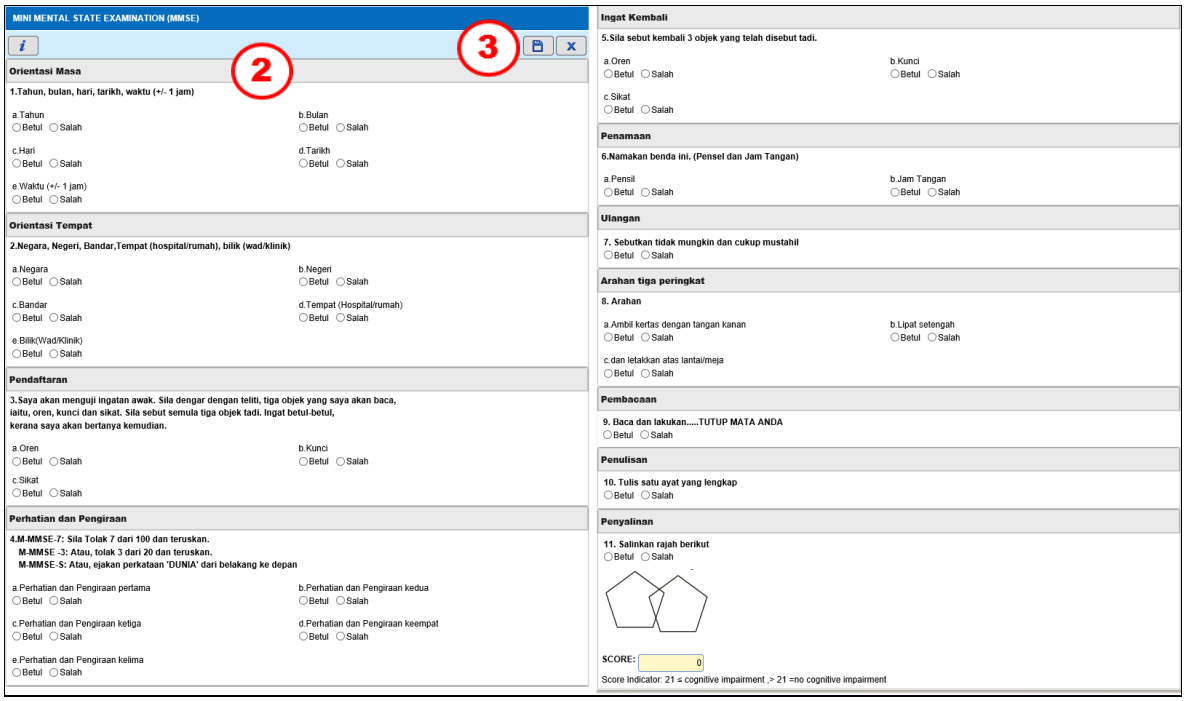



**Figure 3.2.2.4-2 Mini Mental State Examination (MMSE)**

**STEP 2**

Answer questions in ***Mini Mental State Examination (MMSE)*** by selecting radio button

***Note***

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

**STEP 3**

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

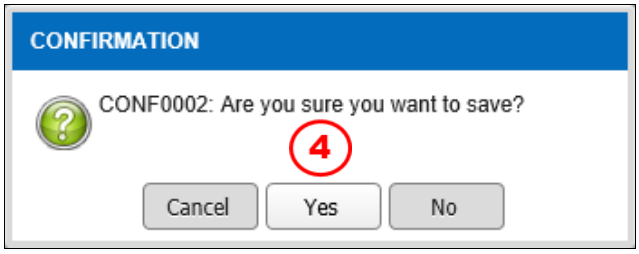



**Figure 3.2.2.4-3 Confirmation Alert Message**

**STEP 4**

Click on the Yes button to confirm save record

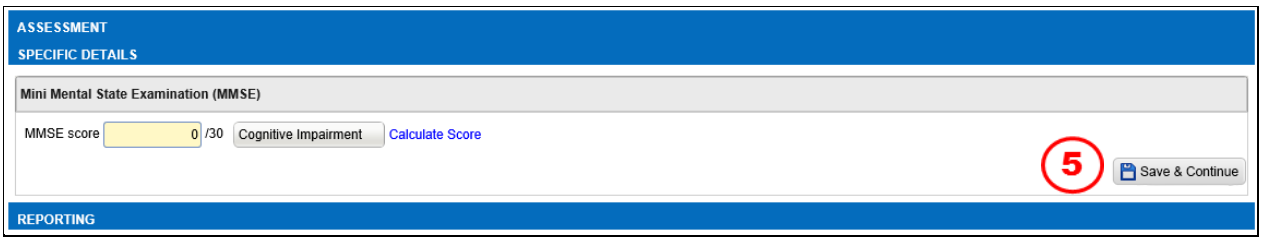



**Figure 3.2.2.4-4 Specific Details**

**STEP 5**

Click on the Save & Continue button to save and continue with reporting section

**STEP 6**

Click on the Yes button to confirm save record

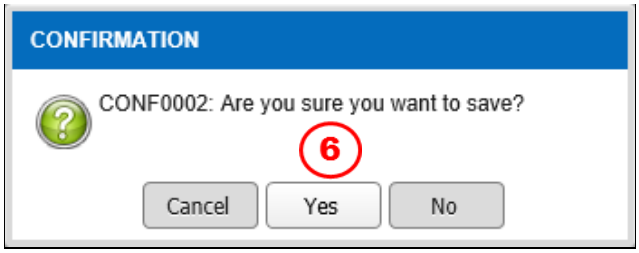



**Figure 3.2.2.4-5 Confirmation Alert Message**

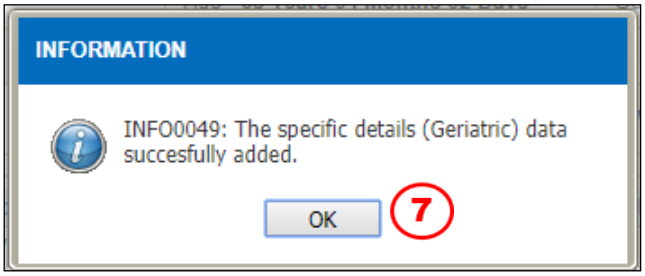



**Figure 3.2.2.4-6 Information alert message**

**STEP 7**

Click on the OK button to confirm record

***Note***

*For 'Reporting' section, repeat steps from* ***STEP 18 to 25*** *in* *3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.5 Heart Failure

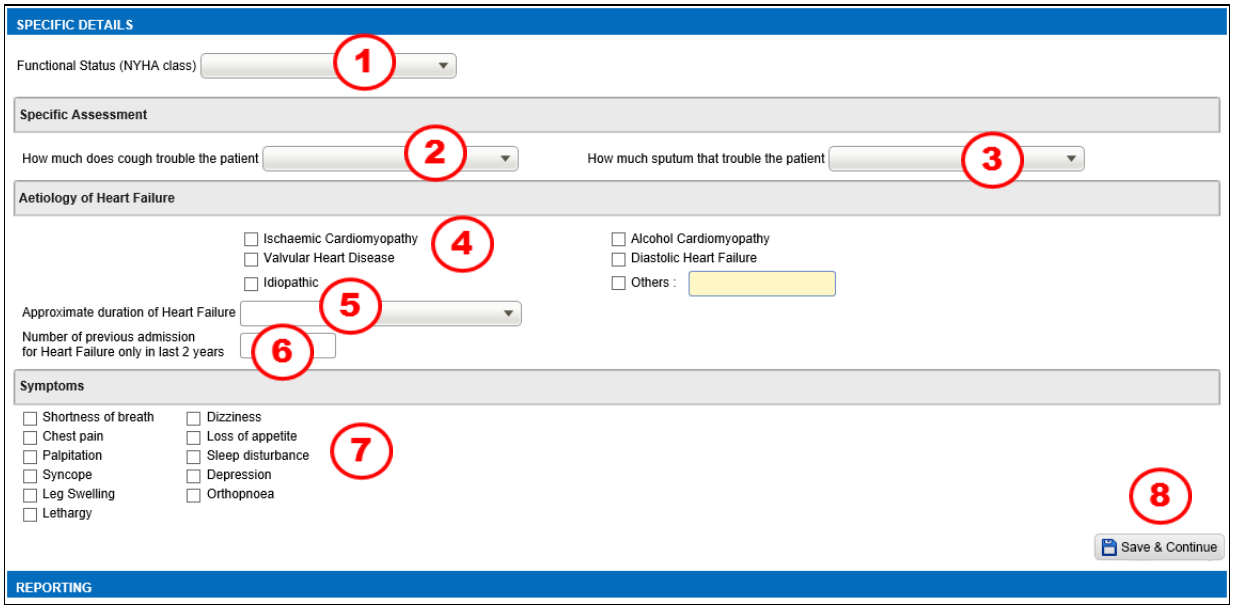



**Figure 3.2.2.5-1 Specific Details – Heart Failure**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Heart Failure*

**STEP 1**
Select ***Functional Status (NYHA class)*** from the dropdown box

**STEP 2**
Select ***How much does cough trouble the patient*** from the dropdown box

**STEP 3**
Select ***How much sputum that trouble the patient*** from the dropdown box

**STEP 4**
Select the checkbox for ***Aetiology of Heart Failure***

***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 dropdown box for ***Month*** or ***Years***

**STEP 6**
Enter ***Number of previous admission for Heart Failure only in last 2 years***

**STEP 7**
Select the checkbox for ***Symptoms***

***Note***
*User is allowed to select multiple checkbox*

**STEP 8**
Click on the Save & Continue button to save and continue with reporting section

**STEP 9**

Click on the Yes button to confirm save record

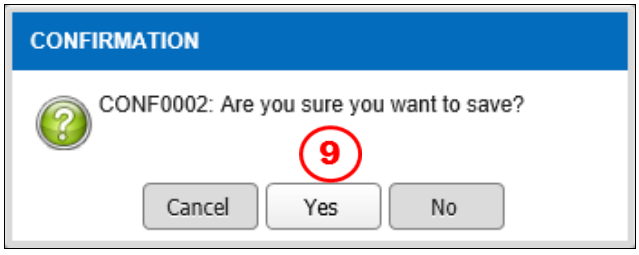



**Figure 3.2.2.5-2 Confirmation Alert Message**

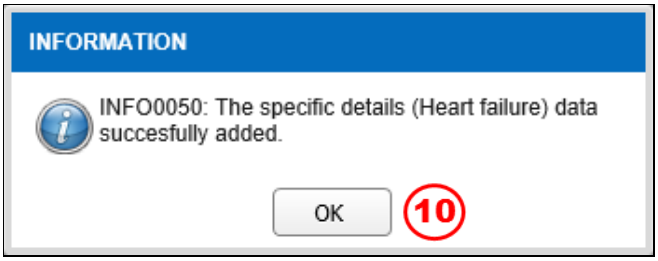



**Figure 3.2.2.5-3 Information alert message**

**STEP 10**

Click on the OK button to confirm record

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.6 Methadone

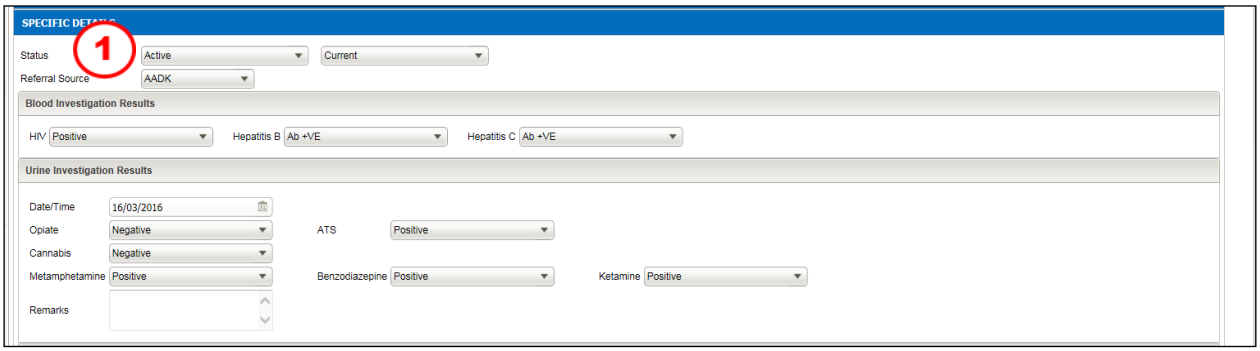



**Figure 3.2.2.6-1 Specific Details - Methadone**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Methadone*

**STEP 1**
Select ***Status*** from the dropdown box
Select ***Referral Source*** from the dropdown box

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

**Blood Investigation Results**

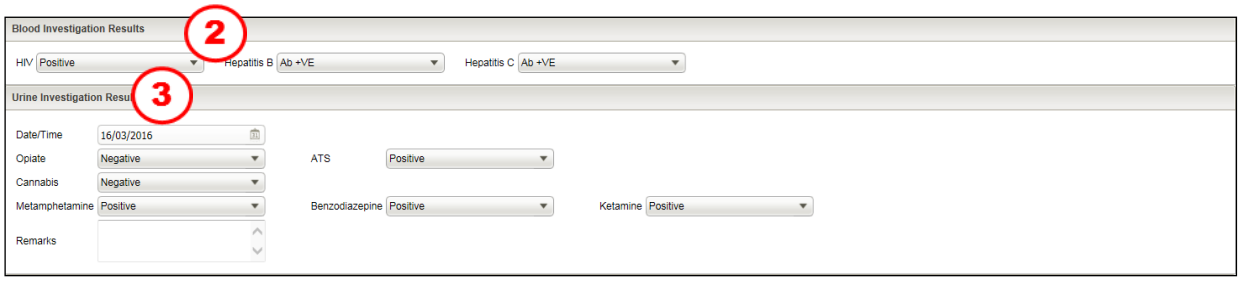



**Figure 3.2.2.6-2 Specific Details – Methadone**

**STEP 2**
Select ***HIV*** from the dropdown box
Select ***Hepatitis B*** from the dropdown box
Select ***Hepatitis C*** from the dropdown box

**Urine Investigation Results**

**STEP 3**
Click on the button to select *sample **Date/Time.***

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

***Note***
*Enter **Remarks** if necessary*

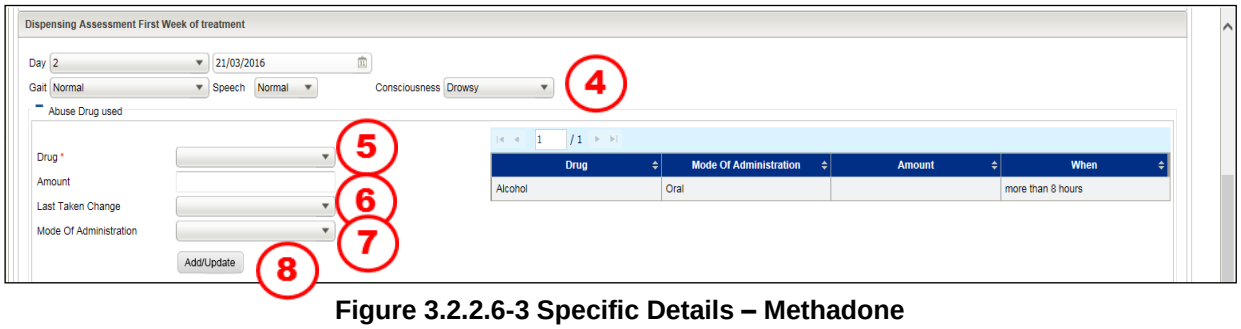



**Figure 3.2.2.6-3 Specific Details – Methadone**

**Dispensing Assessment First Week of Treatment**

**STEP 4**

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

Select ***Gait*** from the drop own box

Select ***Speech*** from the dropdown box

Select ***Consciousness*** from the dropdown box

**Abuse Drug used**

**STEP 5**
Select ***Drug*** from the dropdown box

Enter ***Amount*** of drug

**STEP 6**
Select ***Last Taken Change*** from the dropdown box

**STEP 7**
*Select* ***Mode of Administration*** from the dropdown button

**STEP 8**

Click on the Add/Update button to add drug information on the list.

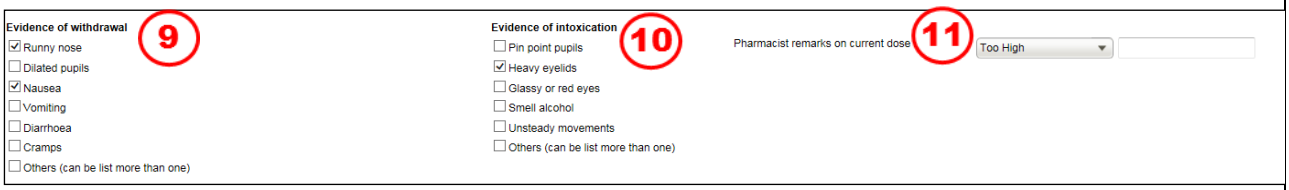



**Figure 3.2.2.6-4 Specific Details – Methadone**

**STEP 9**
Select ***Evidence of withdrawal*** from the dropdown 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 dropdown box of Evidence of withdrawal and Evidence of intoxication.*

**STEP 11**
Select ***Pharmacist remarks on current dose*** from the dropdown box
Sufficient
Too High
Too Low

**Intervention / Activity**

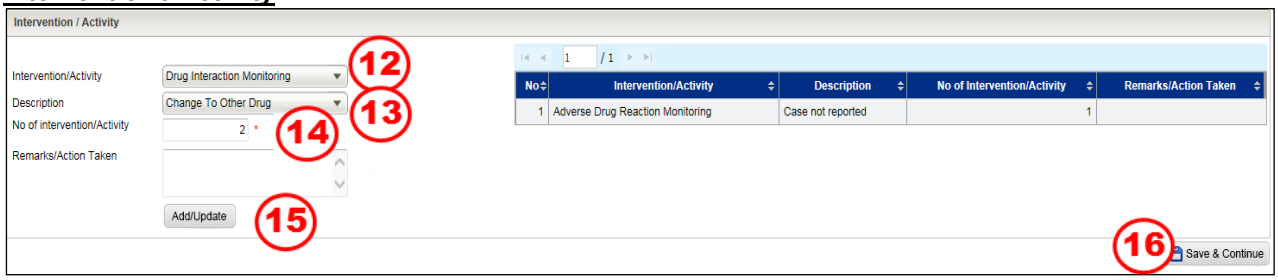



**Figure 3.2.2.6-5 Specific Details – Methadone**

**STEP 12**
Select ***Intervention / Activity*** from the dropdown box
Adverse Drug Reaction Monitoring
Drug Information
Drug Interaction Monitoring
Methadone Dose Modification
Type of side affect

**STEP 13**
Select ***Description*** from the dropdown 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 Add/Update button to add drug information on the list
**STEP 16**
Click on the Save & Continue button to save and continue with reporting record

**STEP 17**

Click on the Yes button to confirm save order

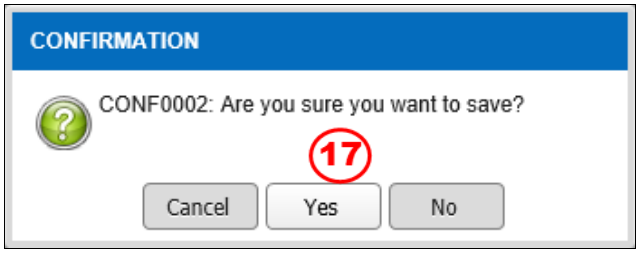



**Figure 3.2.2.6-6 Confirmation Alert Message**

**STEP 18**

Click on the OK button to add record

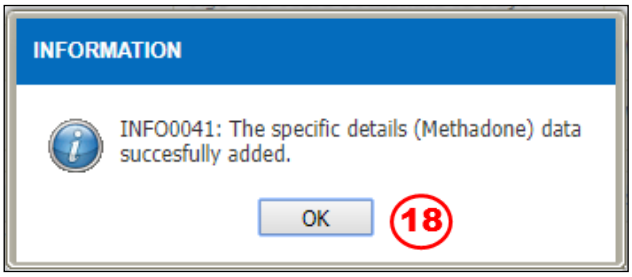



**Figure 3.2.2.6-7 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.7 Renal Transplant

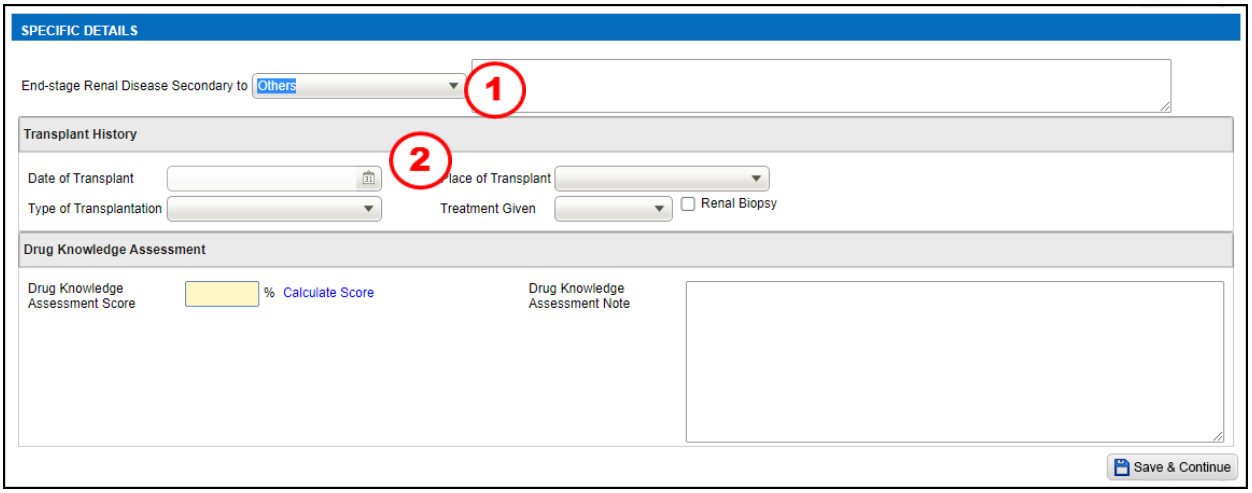



**Figure 3.2.2.7-1 Specific Details - Renal Transplant**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section 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
- Others

***Note***
*Once selected Others, system will display free text field to fill in details*

**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 3.2.2.7-2

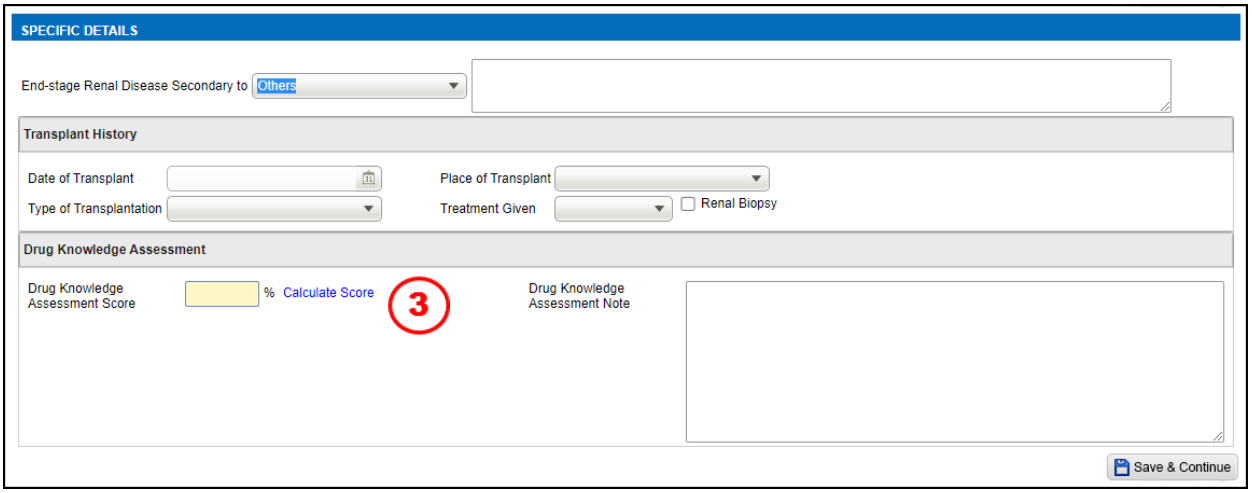



**Figure 3.2.2.7-2 Specific Details - Renal Transplant**

**STEP 4**

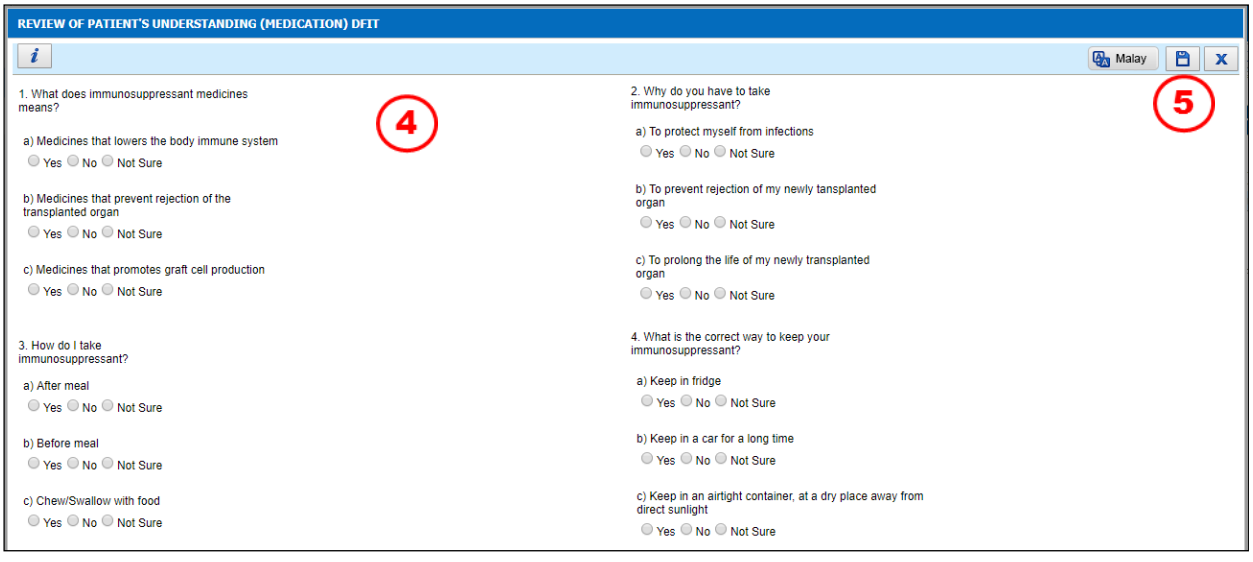
Answer all questionnaire in the ***Review of Patient's Understanding*** window by selecting the radio button to answer every questions

***Note***

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

**STEP 5**

Click on the button to save record



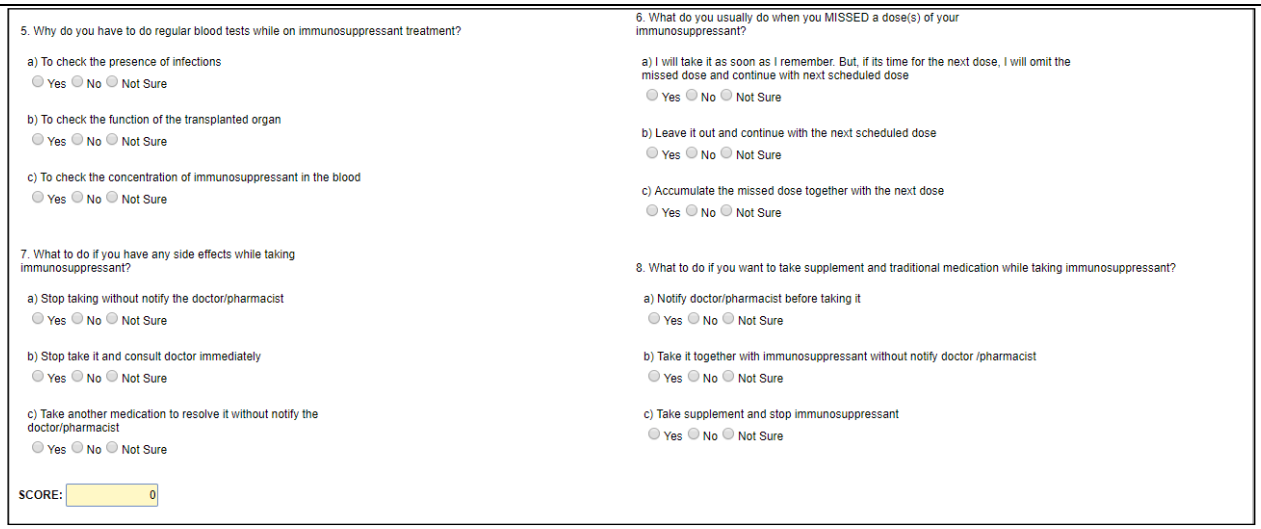



**Figure 3.2.2.7-3 Drug Knowledge Assessment**

**STEP 6**

Click on the Save & Continue button as shown in Figure 3.2.2.7-4 to save and continue with reporting section

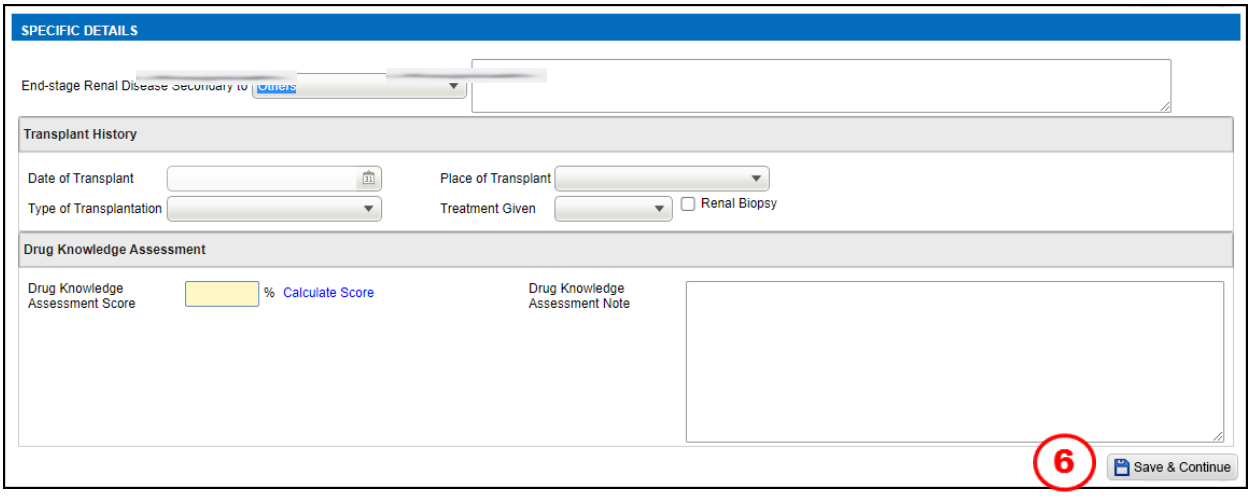



**Figure 3.2.2.7-4 Specific Details - Renal Transplant**

**STEP 7**

Click on the Yes button to confirm save record

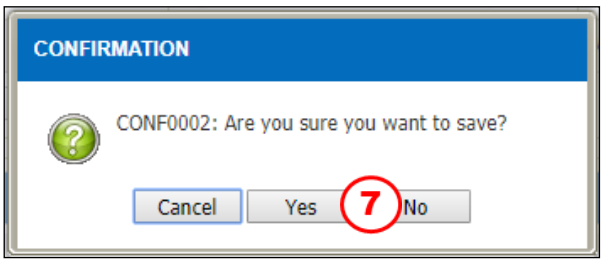



**Figure 3.2.2.7-5 Confirmation Alert Message**

**STEP 8**
Click on the OK button to confirm record

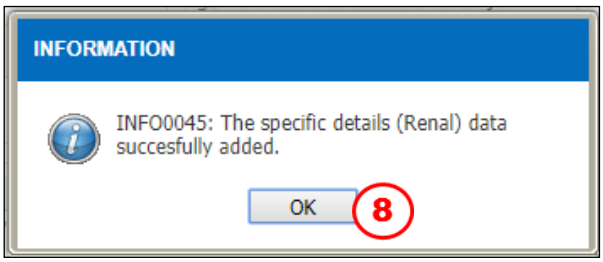



**Figure 3.2.2.7-6 Information Alert Message**

***Note***
*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.8 Respiratory

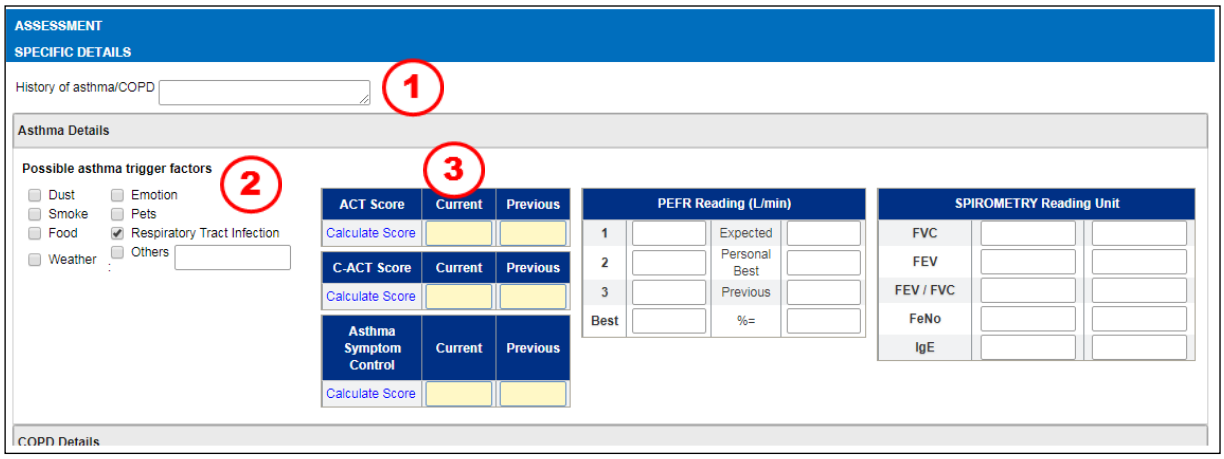



**Figure 3.2.2.8-1 Specific Details – Respiratory Details**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section 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
- Respiratory Tract Infection
- 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*** , ***C-ACT Score*** and the '***Asthma Symptom Control',*** window will be displayed as shown in Figure 3.2.2.8-2 (a) , Figure 3.2.2.8-2 (b), Figure 3.2.2.8-2 (c)

**STEP 4**
Select the dropdown box to answer the questionnaire

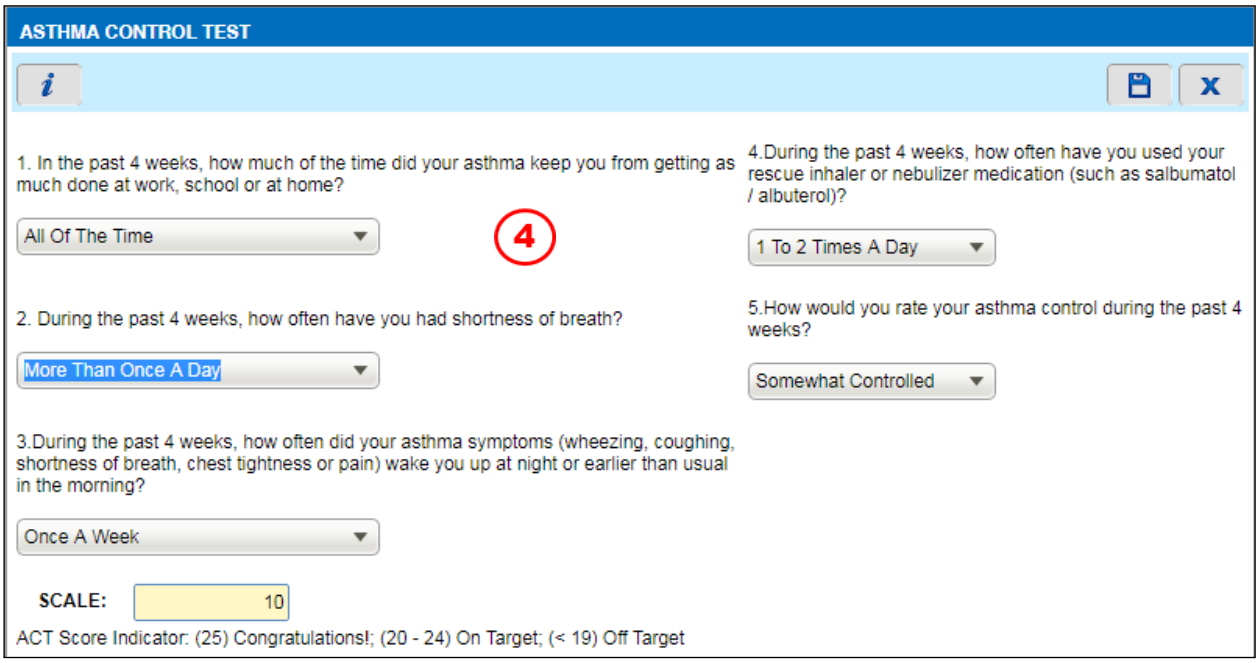



**Figure 3.2.2.8-2 (a) Asthma Control Test – Questionnaire**

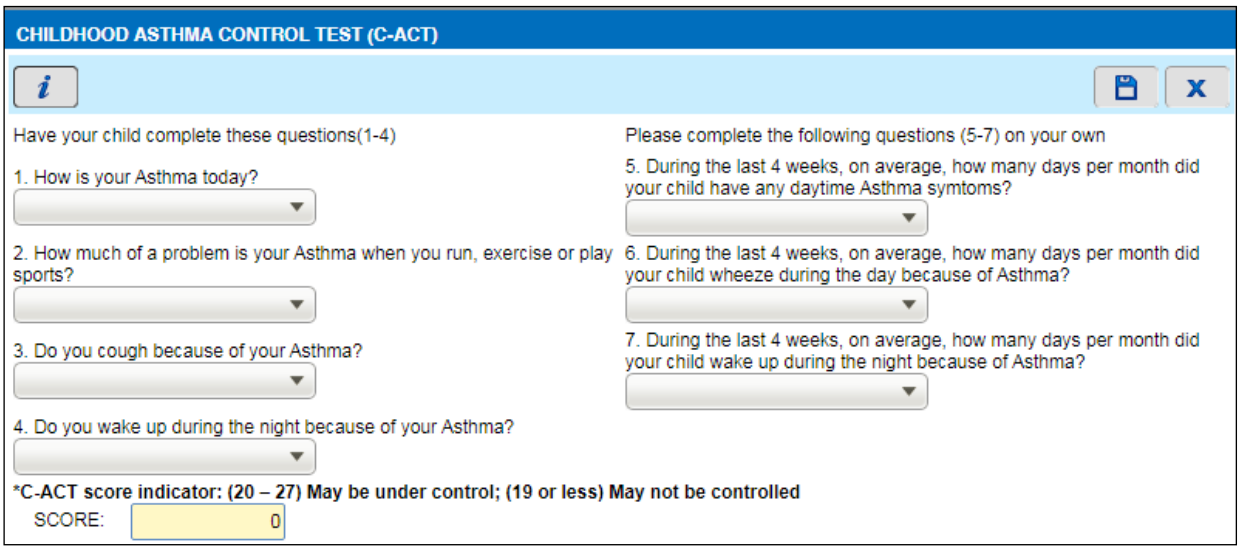



**Figure 3.2.2.8-2 (b) Childhood Asthma Control Test – Questionnaire**

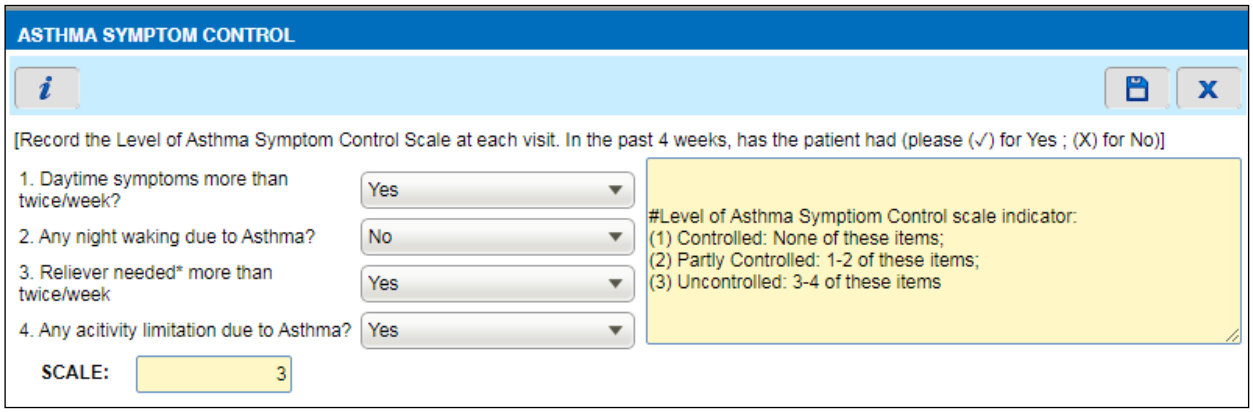



**Figure 3.2.2.8-2 (c) Asthma Symptom Control – Questionnaire**

***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 3.2.2.8-3

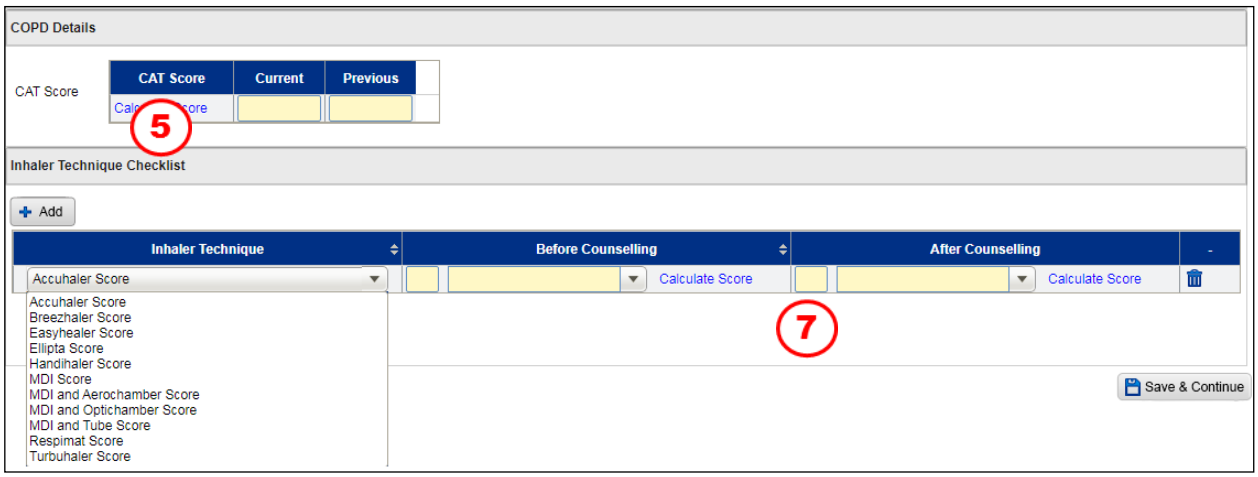



**Figure 3.2.2.8-3 Specific Details – COPD Details**

**STEP 6**

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

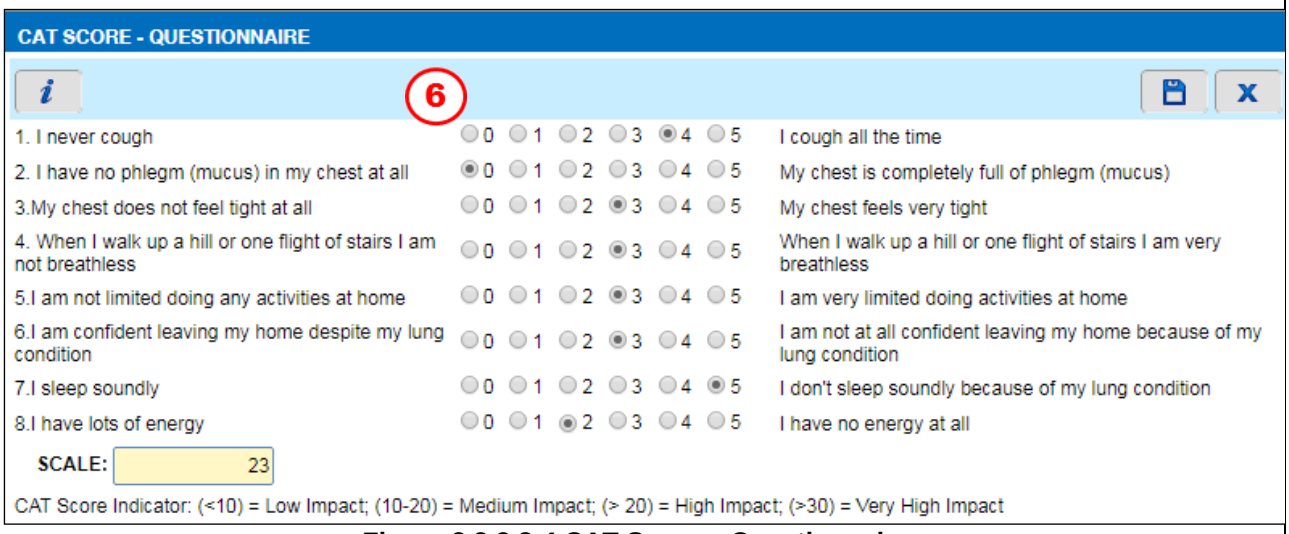



**Figure 3.2.2.8-4 CAT Score – Questionnaire**

**STEP 7**

**Click on the** Calculate Score hyperlink of Inhaler Technic Before and After Counseling to do questionnaire as below:

a) MDI Score
b) Easyhaler Score
c) MDI and Aerochamber Score
d) MDI and TUBE Score
e) MDI and Optichamber Score
f) Turbuhaler Score
g) Accuhaler Score
h) Handihaler Score
i) Breezhaler Score
j) Respimat Score
k) Ellipta Score

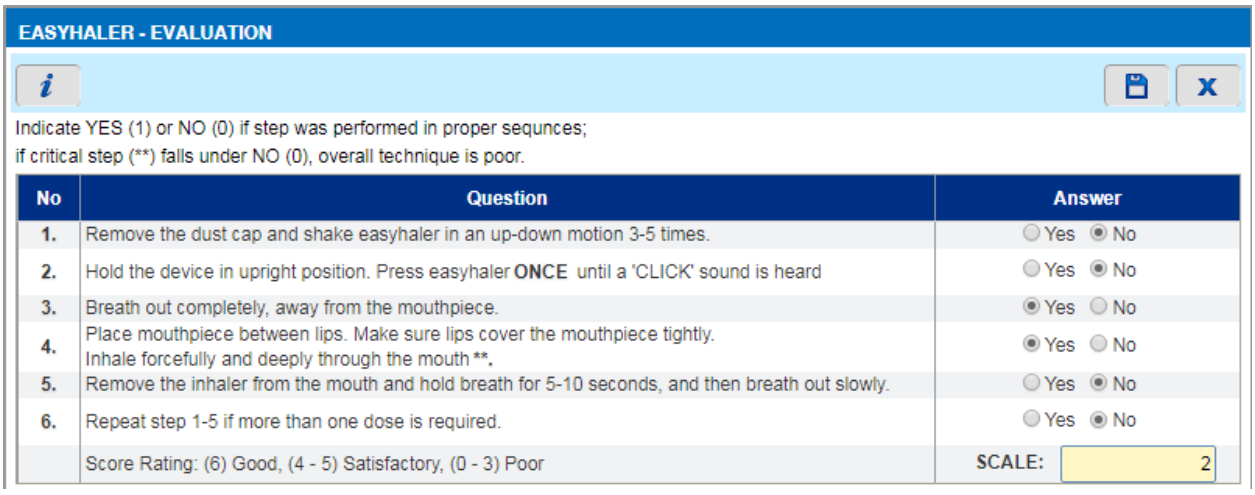



**Figure 3.2.2.8-5(a) Inhaler Technique Understanding-Before**

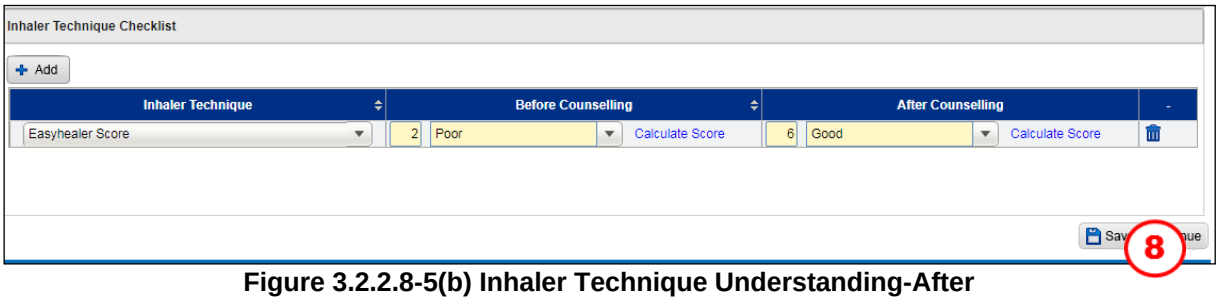



**Figure 3.2.2.8-5(b) Inhaler Technique Understanding-After**

**STEP 8**

Click on the Save & Continue button as shown in Figure 3.2.2.8-5 to save and continue with reporting section

**STEP 9**

Click on the Yes button to confirm save order

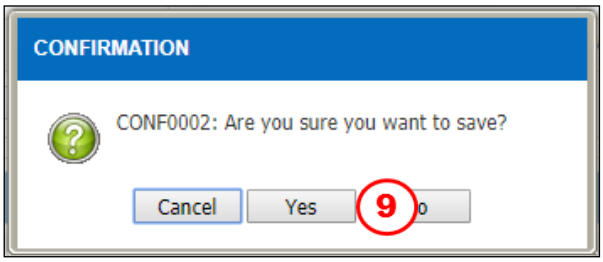



**Figure 3.2.2.8-6 Confirmation Alert Message**

**STEP 10**

Click on the OK button to confirm record

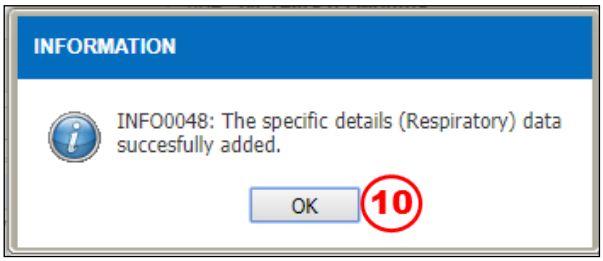



**Figure 3.2.2.8-7 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.9 Retro Viral Disease

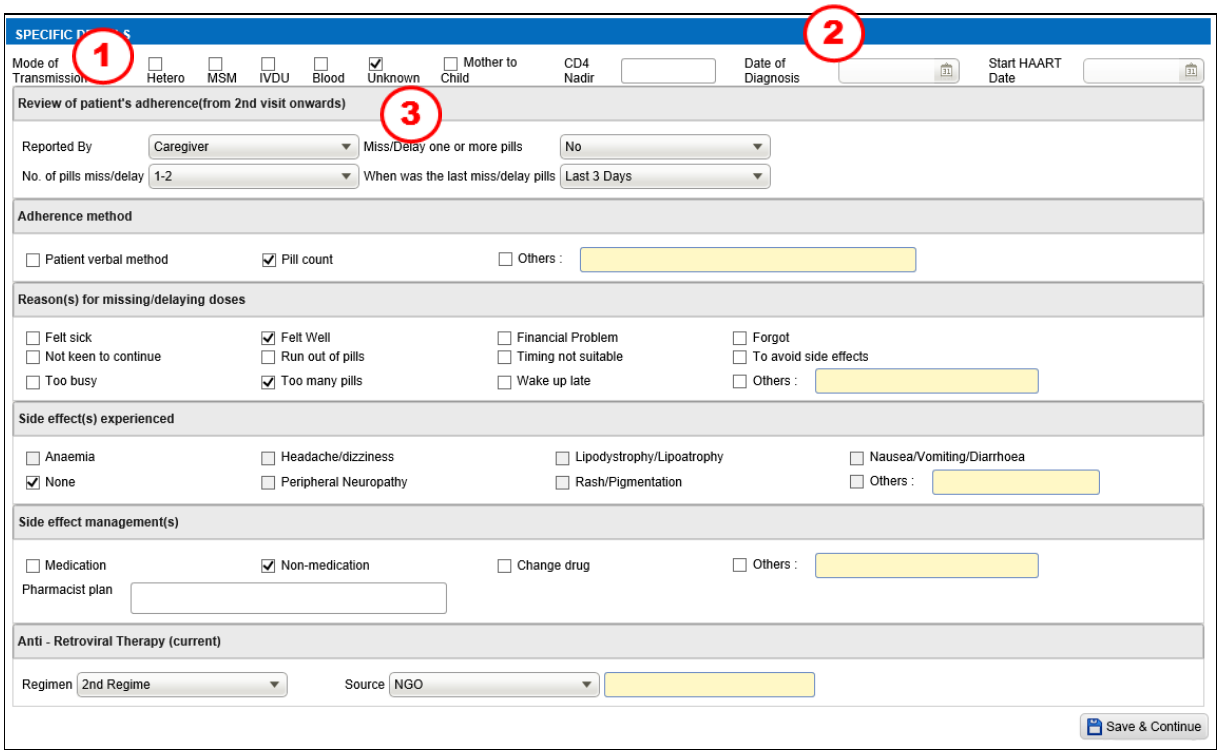



**Figure 3.2.2.9-1 Specific Details - Retro Viral Disease**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section 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
- Mother to Child

**STEP 2**
Enter ***CD4 Nadir, Date Of Diagnosis*** and ***Start HAART Date***

***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*

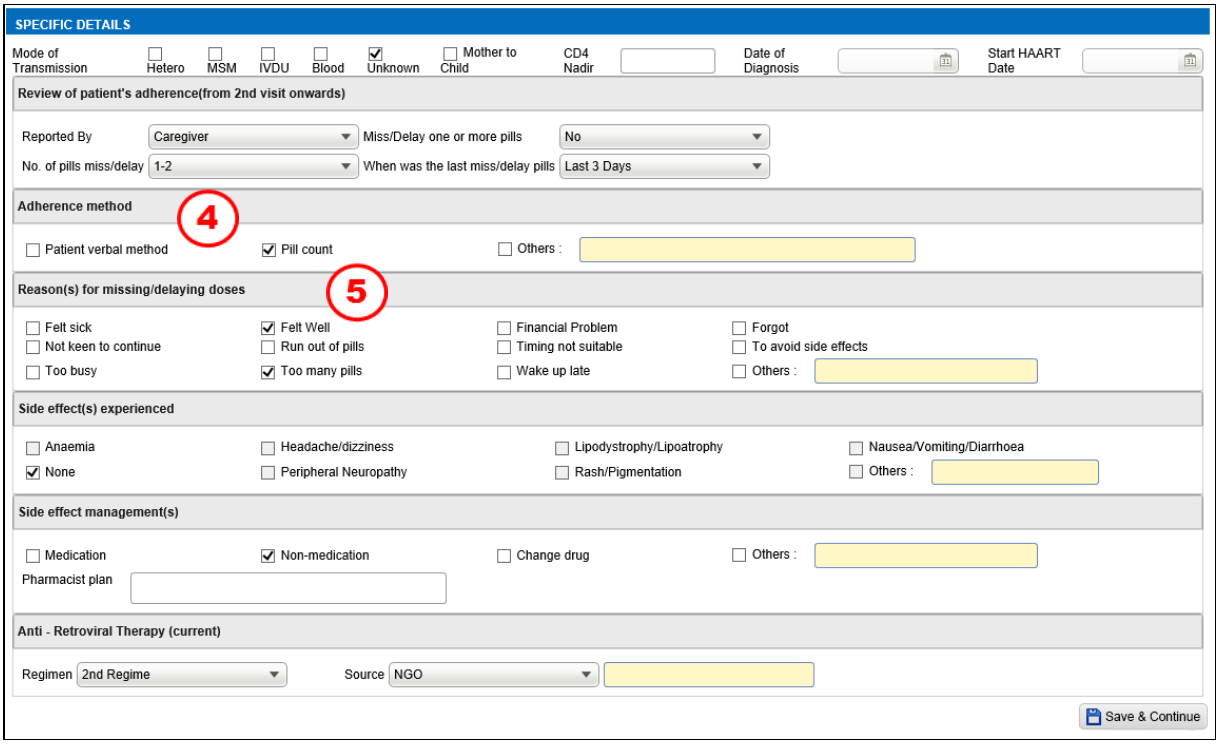



**Figure 3.2.2.9-2 Specific Details - Retro Viral Disease**

**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.*

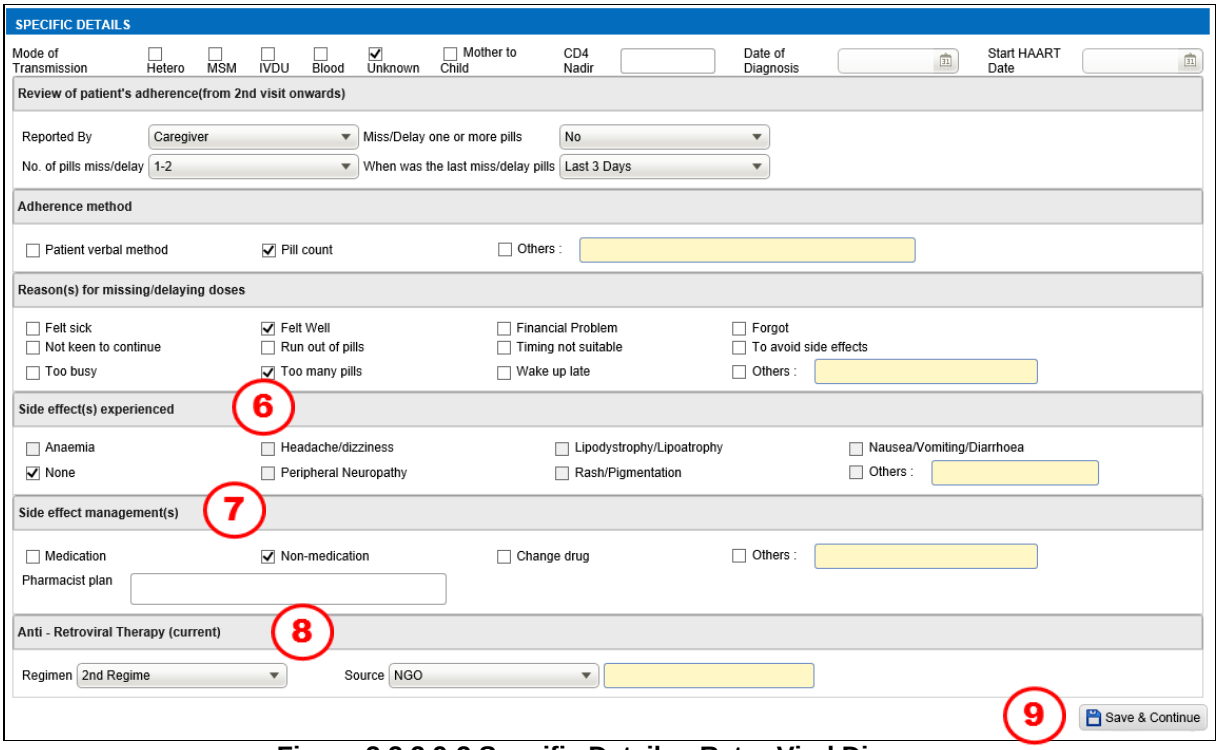



**Figure 3.2.2.9-3 Specific Details - Retro Viral Disease**

**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 Save & Continue button as shown in Figure 3.2.2.9-3 to save and continue with reporting section

**STEP 10**

Click on the Yes button to confirm save record

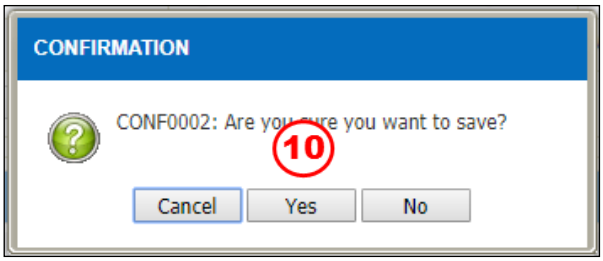



**Figure 3.2.2.9-4 Confirmation Alert Message**

**STEP 11**

Click on the OK button to confirm record

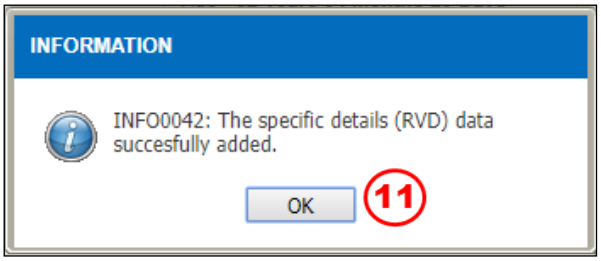



**Figure 3.2.2.9-5 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.10 Warfarin

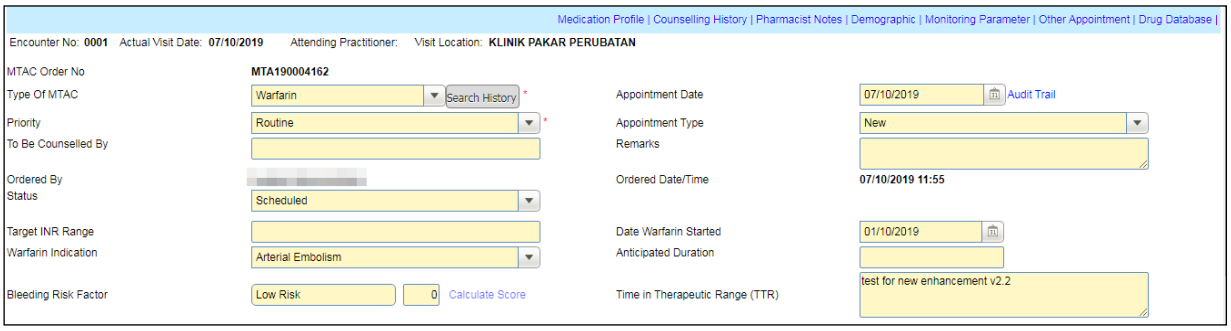



**Figure 3.2.2.10-1- MTAC Order-Warfarin**

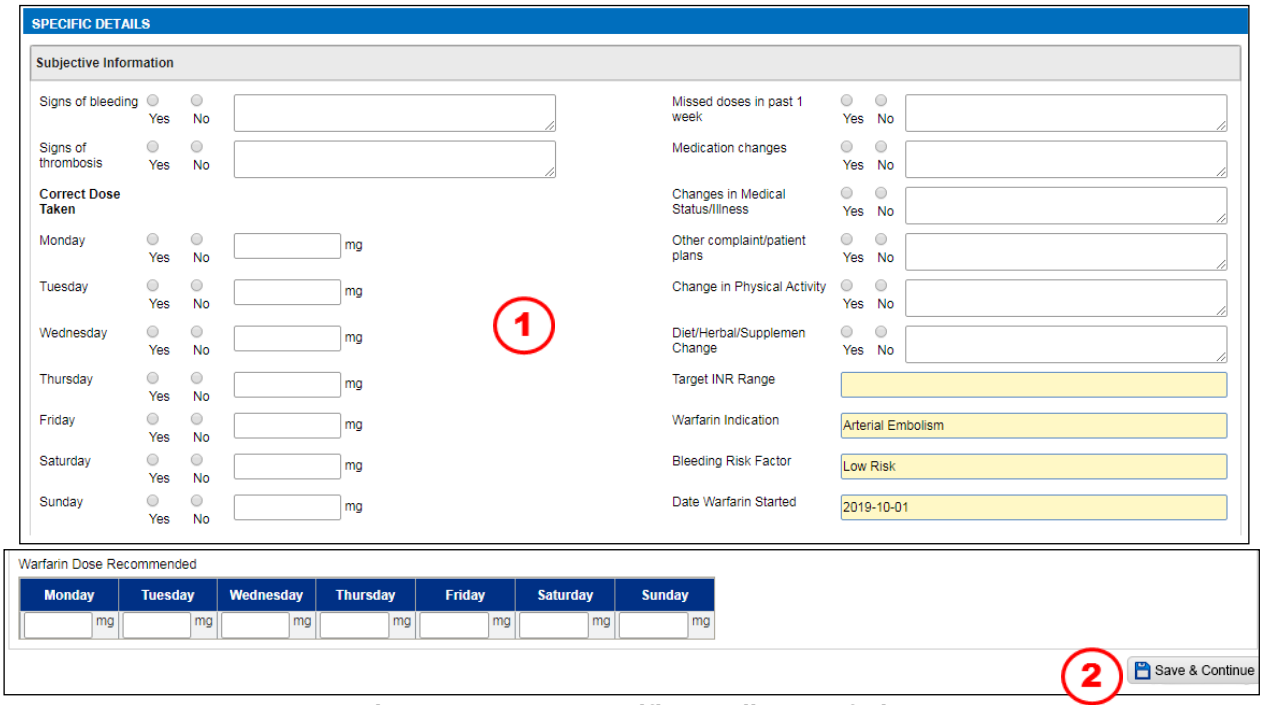



**Figure 3.2.2.10-2 Specific Details - Warfarin**

***Note***

*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing 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*
- *User is allowed to fill in the recommended warfarin dose per day in the column below as shown in Figure 3.2.2.10-2.*

**STEP 2**

Click on the Save & Continue button to save and continue with reporting section

**STEP 3**

Click on the Yes button to confirm save record

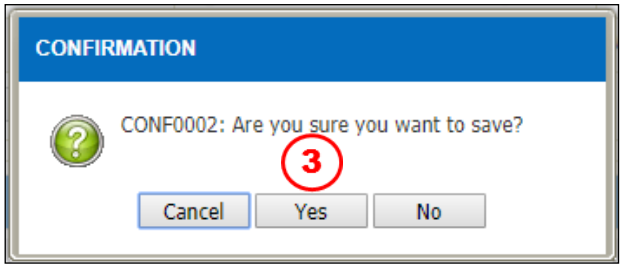



**Figure 3.2.3.10-3 Confirmation Alert Message**

**STEP 4**

Click on the OK button to confirm record

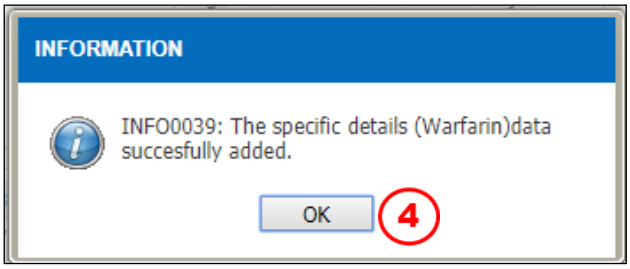



**Figure 3.2.3.10-4 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.11 Cardiovascular Care Bundle

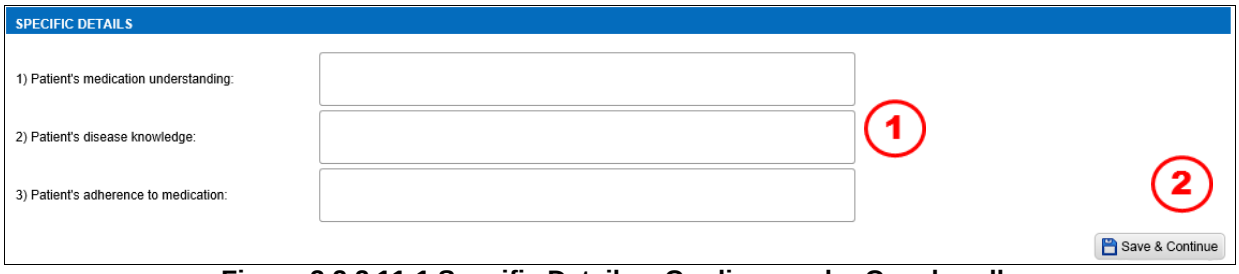



**Figure 3.2.2.11-1 Specific Details – Cardiovascular Care bundle**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Cardiovascular Care Bundle*

**STEP 1**
For ***Subjective Information***, user need to fill up the patient specific detail based on:

- ***Patient medication understanding***
- ***Patient disease knowledge***
- ***Patient adherence to medication***

**STEP 2**
Click on the Save & Continue button to save and continue with reporting section

**STEP 3**
Click on the Yes button to confirm save record

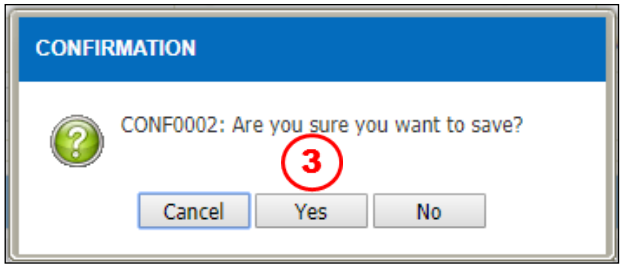



**Figure 3.2.2.11-2 Confirmation Alert Message**

**STEP 4**
Click on the OK button to confirm record

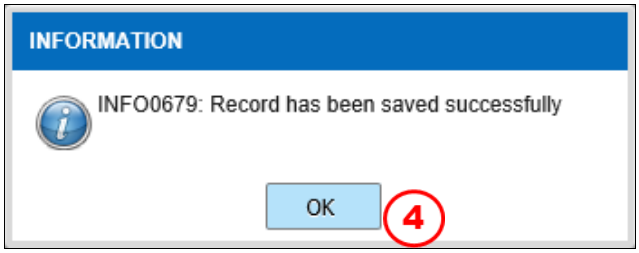



**Figure 3.2.2.11-3 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.12 Hemophilia

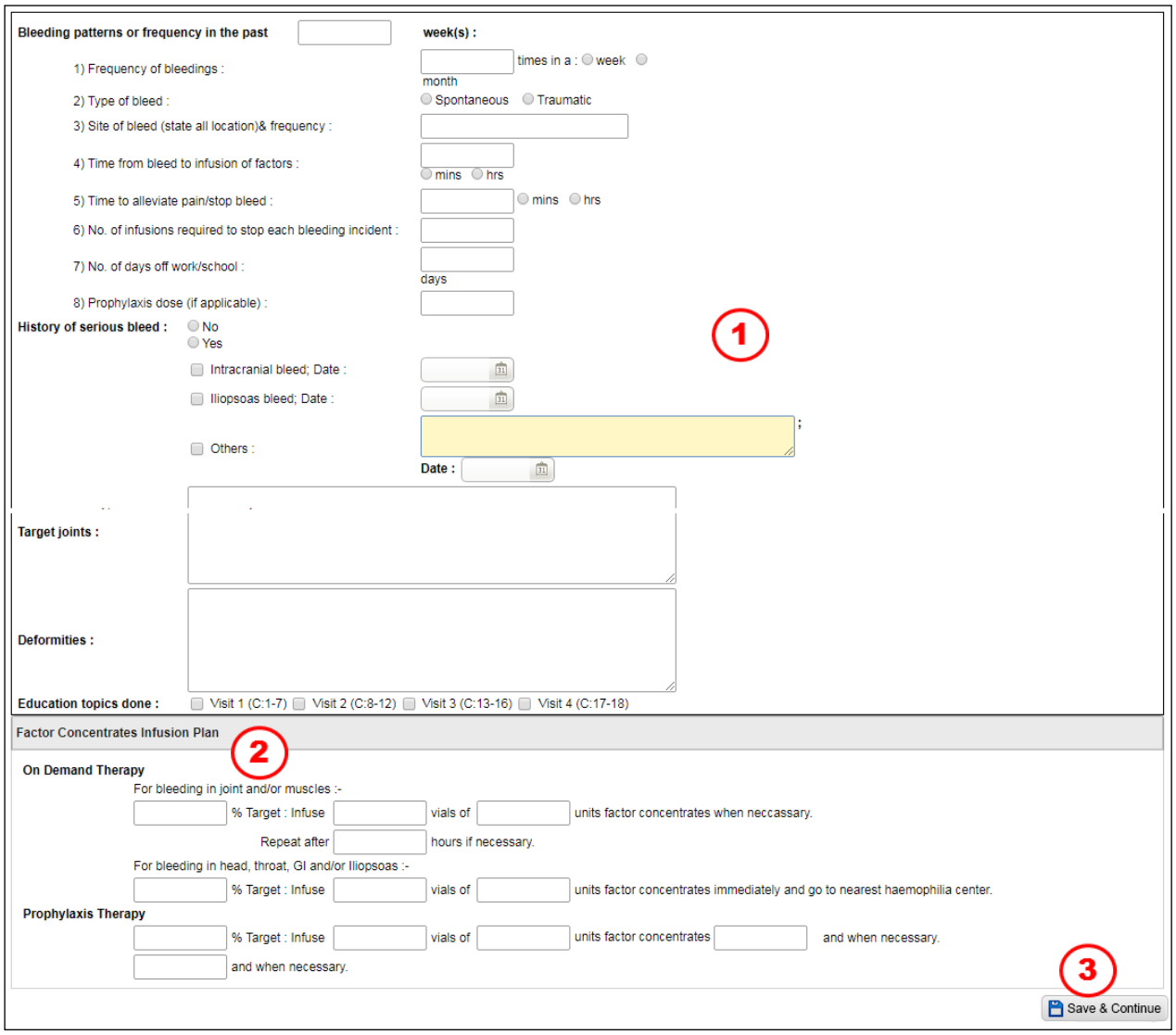



**Figure 3.2.2.12-1 Specific Details – Haemophilia**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Haemophilia*

**STEP 1**
For Specific details, user need to fill up the patient specific detail based on:

- ***Bleeding patterns or frequency in the past***
- **History of serious bleed**
- **Target joints**
- **Deformities**
- **Education topics done**

**STEP 2**
For Factor Concentrates Infusion Plan, user need to fill up the patient specific detail based on:

- **On Demand Therapy**
- **Prophylaxis Therapy**

**STEP 3**

Click on the Save & Continue button to save and continue with reporting section

**STEP 4**

Click on the Yes button to confirm save record

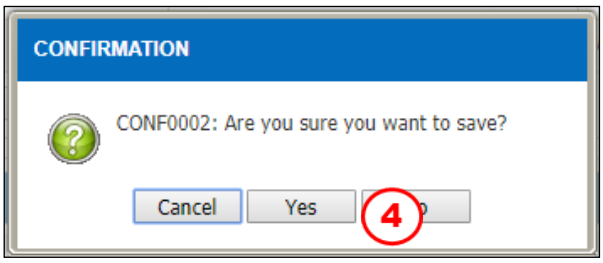



**Figure 3.2.2.12-2 Confirmation Alert Message**

**STEP 5**

Click on the OK button to confirm record

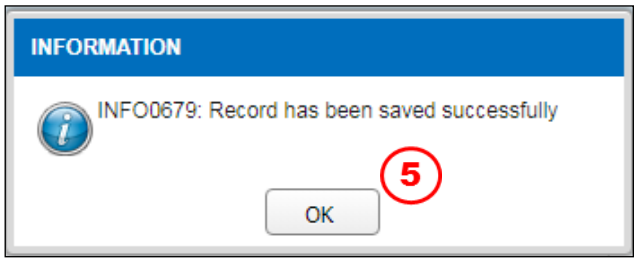



**Figure 3.2.2.12-3 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.13 Psoriasis

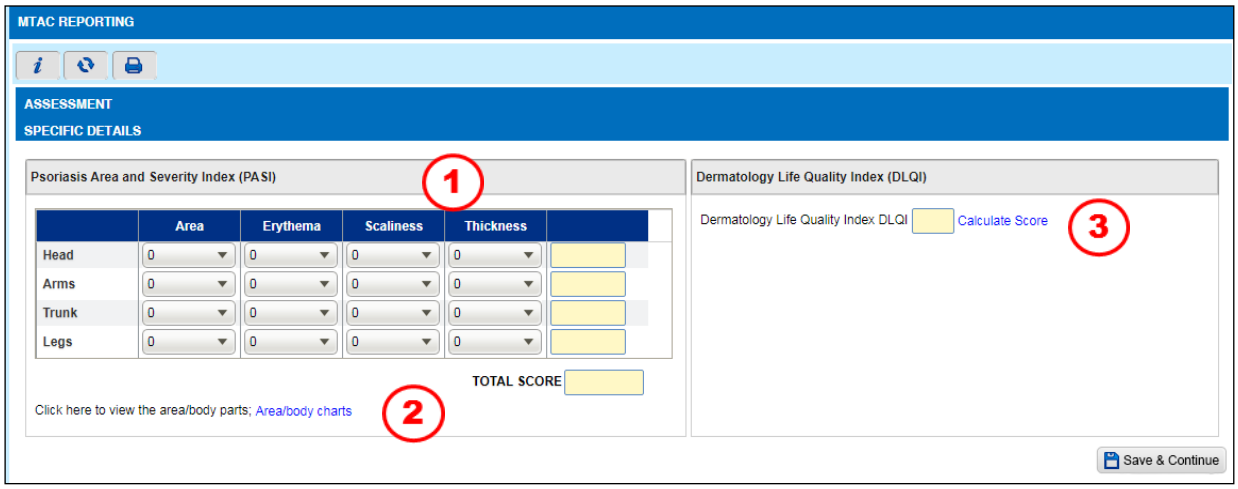



**Figure 3.2.2.13-1 Specific Details – Psoriasis**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Psoriasis*

**Psoriasis Area Severity Index (PASI)**

**STEP 1**
Select the score from drop down value for Area, Erythema, Scaliness and Thickness for:
- **Head**
- **Arms**
- **Trunk**
- **Legs**

Details calculation for the Psoriasis Area and Severity Index (PSAI) is as below:

| No. | Name | Description |
|---|---|---|
| 1. | Head (Area) | User can select from Drop down menu value = (0 – 6) |
| 2. | Head (Erythema) | User can select from Drop down menu value = (0 – 6) |
| 3. | Head (Scaliness) | User can select from Drop down menu value = (0 – 6) |
| 4. | Head (Thickness) | User can select from Drop down menu value = (0 – 6) |
| 5. | Head (Total) | Auto calculated based on below:<br>**0.1 x Head Area x (Head Erythema + Head Scaliness + Head Thickness)** |
| 6. | Arms (Area) | User can select from Drop down menu value = (0 – 4) |
| 7. | Arms (Erythema) | User can select from Drop down menu value = (0 – 4) |
| 8. | Arms (Scaliness) | User can select from Drop down menu value = (0 – 4) |
| 9. | Arms (Thickness) | User can select from Drop down menu value = (0 – 4) |
| 10. | Arms (Total) | Auto calculated based on below:<br>**0.2 x Arms Area x (Arms Erythema + Arms Scaliness + Arms Thickness)** |
| 11. | Trunk (Area) | User can select from Drop down menu value = (0 – 4) |
| 12. | Trunk (Erythema) | User can select from Drop down menu value = (0 – 4) |
| 13. | Trunk (Scaliness) | User can select from Drop down menu value = (0 – 4) |
| 14. | Trunk (Thickness) | User can select from Drop down menu value = (0 – 4) |
| 15. | Trunk (Total) | Auto calculated based on below:<br>**0.3 x Trunk Area x (Trunk Erythema + Trunk Scaliness + Trunk Thickness)** |
| 16. | Legs (Area) | User can select from Drop down menu value = (0 – 4) |

| | | |
|---|---|---|
| 17. | Legs (Erythema) | User can select from Drop down menu value = (0 – 4) |
| 18. | Legs (Scaliness) | User can select from Drop down menu value = (0 – 4) |
| 19. | Legs (Thickness) | User can select from Drop down menu value = (0 – 4) |
| 20. | Legs (Total) | Auto calculated based on below:<br>**0.4 x Legs Area x (Legs Erythema + Legs Scaliness + Legs Trunk Thickness)** |
| 21. | Total Score | Auto calculated based on below:<br>**Head Total + Arms Total + Trunk Total + Legs Total** |

**Table 3.2.2.13-1 Specific Details – Psoriasis**

**STEP 2**

Click on the Area/body charts hyperlink to view the area/body parts :

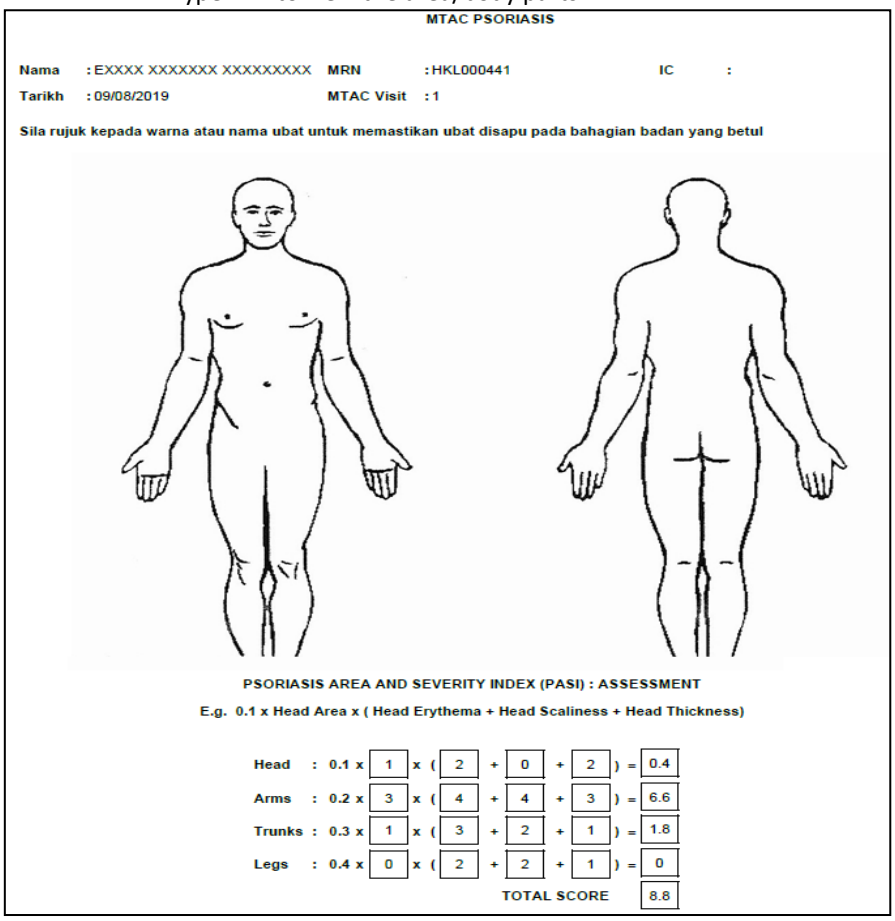



**Figure 3.2.2.13-2 Specific Details – Area Body Chart**

**Dermatology Life Quality Index (DLQI)**

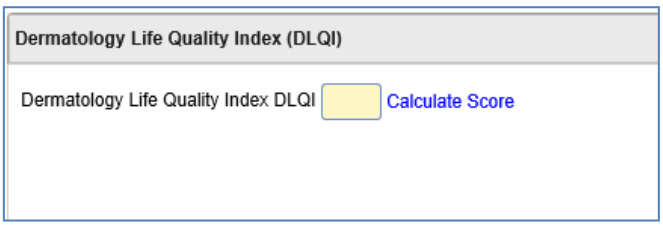



**Figure 3.2.2.13-3 Specific Details –DLQI**

**STEP 3**
Click on the 'Calculate Score' hyperlink shall display assessment screen as below:

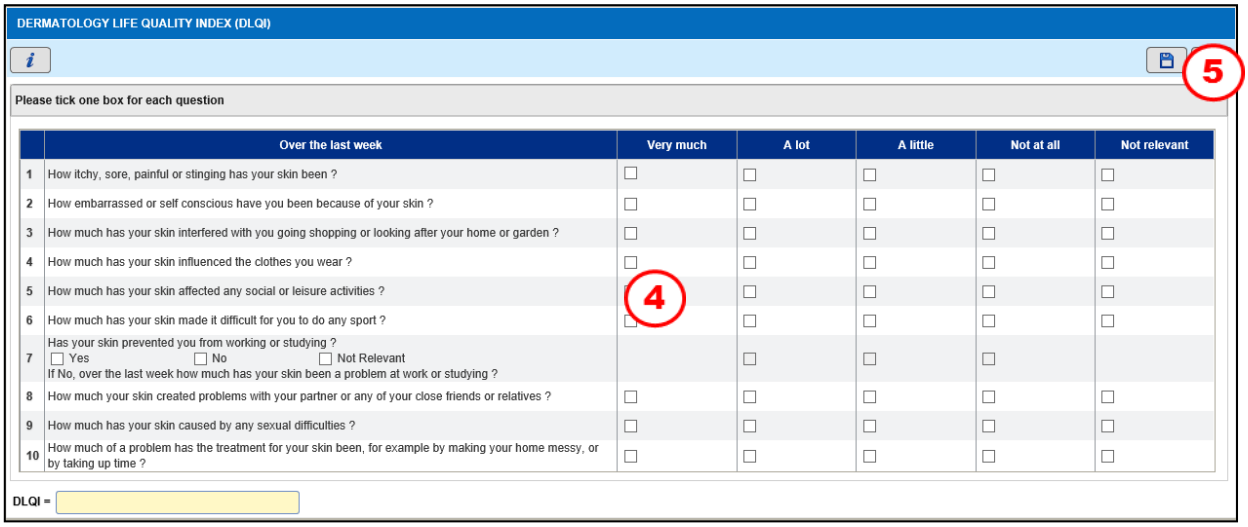



**Figure 3.2.2.13-4 Specific Details –DLQI Questionnaire**

**STEP 4**
Tick on the answers check box for each question
Details of the score description as below:

| No. | Name | Description |
|---|---|---|
| 1. | How itchy, sore, painful or stinging has your skin been?<br>*Setakat manakah kulit anda berasa gatal atau sakit?* | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0 |
| 2. | How embarrassed or self conscious have you been because of your skin?<br>*Setakat manakah anda berasa malu atau segan, disebabkan oleh kulit anda?* | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0 |
| 3. | How much has your skin interfered with you going shopping or looking after your home or garden?<br>*Setakat manakah kulit anda mengganggu anda daripada pergi membeli-belah atau menjaga rumah atau berkebun?* | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |
| 4. | How much has your skin influenced the clothes you wear?<br>*Setakat manakah kulit anda mempengaruhi pakaian yang anda pakai?* | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |
| 5. | How much has your skin affected any social or leisure activities?<br>*Setakat manakah kulit anda mengganggu aktiviti-aktiviti sosial atau masa lapang anda?* | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |

| | | |
|---|---|---|
| 6. | How much has your skin made it difficult for you to do any sport?<br>*Setakat manakah keadaan kulit anda menyebabkan anda tidak selesa semasa bersukan?* | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |
| 7. | Has your skin prevented you from working or studying?<br>*Adakah kulit menyebabkan anda tidak dapat kerja atau belajar?*<br><br>Yes/ya ☐ No/Tidak ☐ Not relevant/tidak berkenaan ☐<br>• If "No", over the last week how much has your skin been a problem at work or studying?<br>• *JIKA 'TIDAK', SETAKAT MANAKAH KULIT ANDA MENJADI MASALAH SEMASA KERJA ATAU BELAJAR?* | User shall need to tick one of below answer:<br>a) Yes: 3<br>b) No: If 'No' then allow user to choose:<br>• A lot: 2<br>• A little: 1<br>• Not at all: 0<br>c) NOT RELEVANT: 0 |
| 8. | How much has your skin created problems with your partner or any of your close friends or relatives?<br>Setakat manakah kulit anda menimbulkan masalah dengan teman, rakan baik atau saudara-mara anda? | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |
| 9. | How much has your skin caused any sexual difficulties?<br>Setakat manakah kulit anda menyebabkan sebarang masalah hubungan seks? | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |
| 10. | How much of a problem has the treatment for your skin been, for example by making your home messy, or by taking up time?<br>Setakat manakah rawatan kulit anda menimbulkan masalah seperti mengotori rumah anda atau mengambil masa anda? | User shall need to tick one of below answer:<br>a) Very Much: 3<br>b) A lot: 2<br>c) A little: 1<br>d) Not at all: 0<br>e) Not relevant: 0 |
| 11. | **DLQI** | Auto calculate as below:<br>Total of the Score Question 1 to 10 |

**Table 3.2.2.13-2 Specific Details – Psoriasis**

**STEP 5**

Click on the button to save the DLQI record

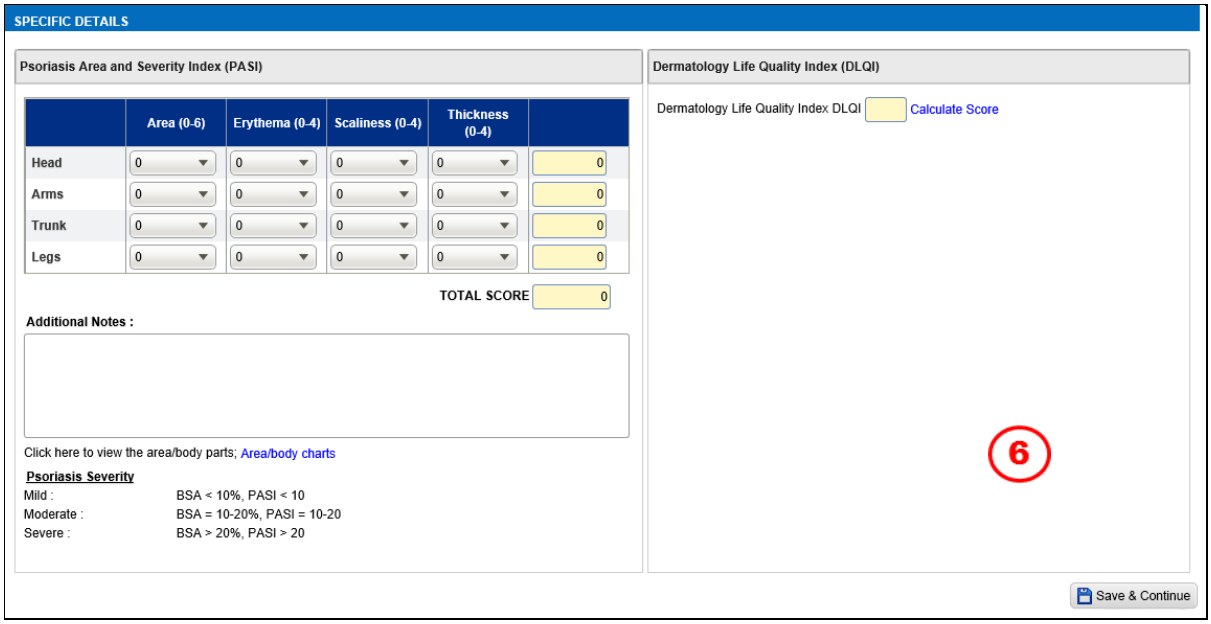



**Figure 3.2.2.13-5 Specific Details – Psoriasis**

**STEP 6**

Click on the Save & Continue button to save and continue with reporting section

**STEP 7**

Click on the Yes button to confirm save record

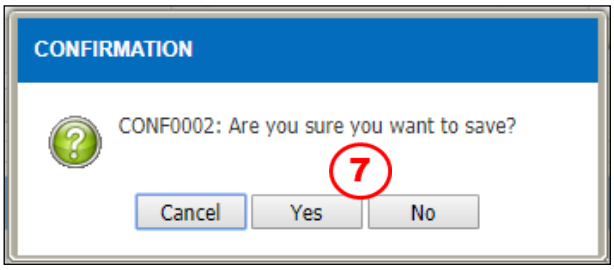



**Figure 3.2.2.13-6 Confirmation Alert Message**

**STEP 8**

Click on the OK button to confirm record

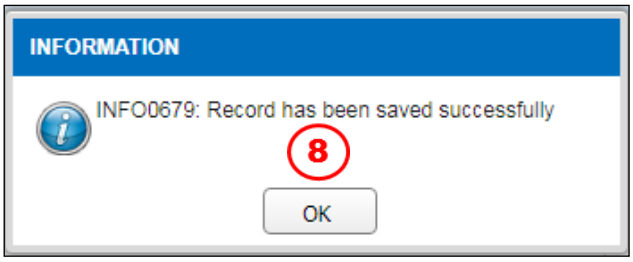



**Figure 3.2.2.13-7 Information Alert Message**

***Note***

*For 'Reporting' section, repeat steps from **STEP 18 to 25** in 3.2.1 Create New MTAC Reporting with No Specific Details*

### 3.2.2.14 Thalassemia

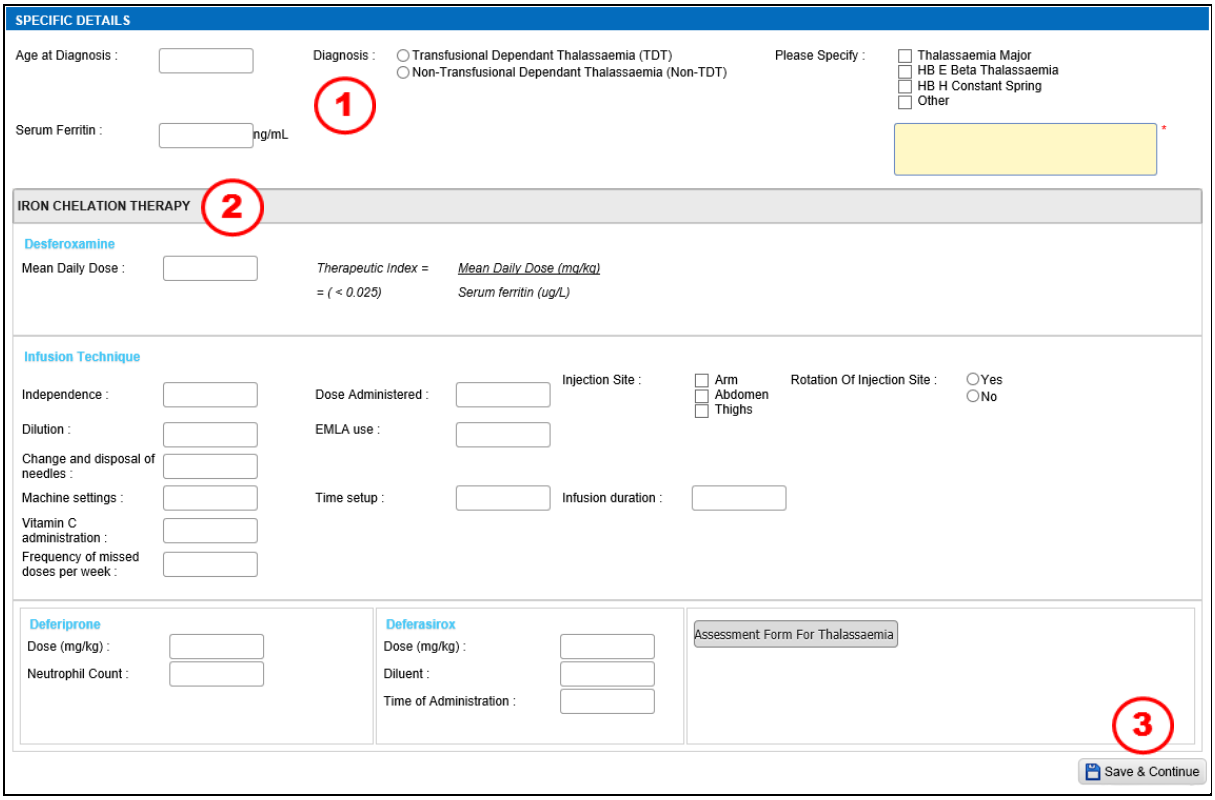



**Figure 3.2.2.14-1 Specific Details – Thalassemia**

***Note***
*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Thalassemia*

**STEP 1**
Fill up the specific details for Thalassemia by the below categories:
- **Age at Diagnosis**
- **Diagnosis**
- **Please specify**
- **Serum Ferritin**

**STEP 2**
Fill up the ***Iron Chelation Therapy*** details as below:
- **Desferoxamine**
- **Infusion Technique**
- **Deferiprone**
- **Deferasirox**

**STEP 3**
Click on the Save & Continue button to save and continue with reporting section

**STEP 4**
Click on the Yes button to confirm save record

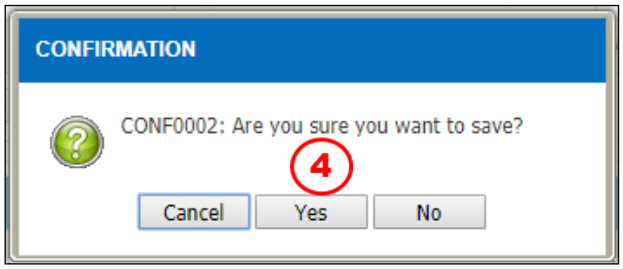



**Figure 3.2.2.14-2 Confirmation Alert Message**

**STEP 5**

Click on the OK button to confirm record

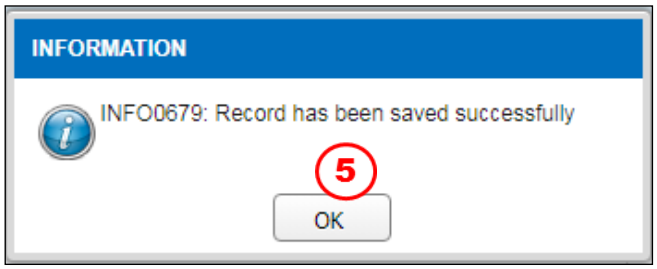



**Figure 3.2.2.14-3 Information Alert Message**

### 3.2.2.15 Pain

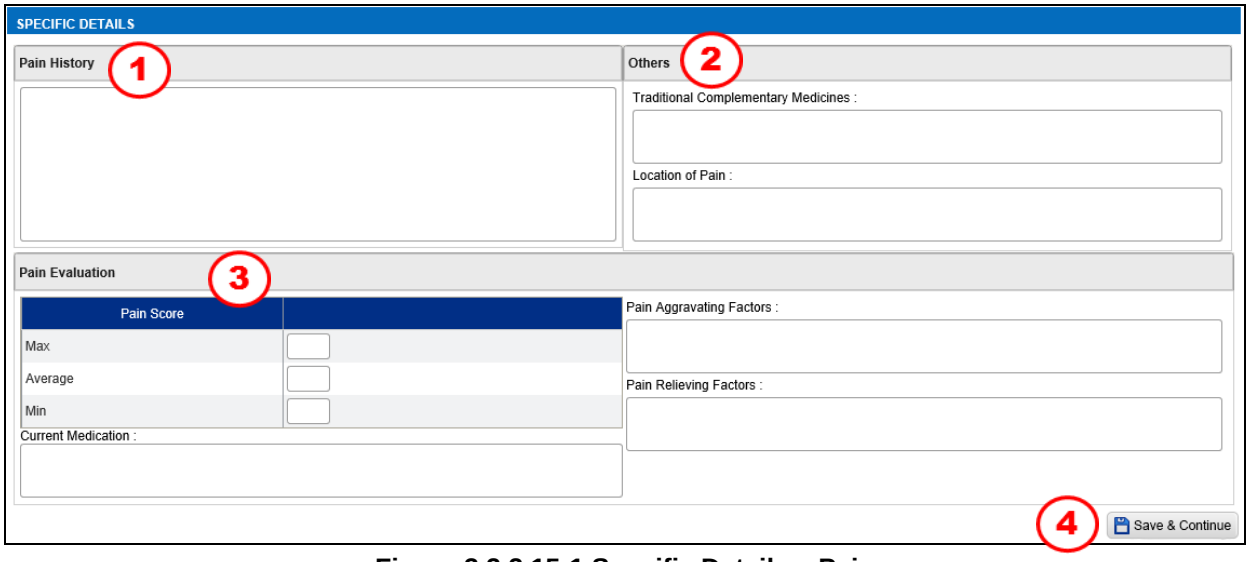



**Figure 3.2.2.15-1 Specific Details – Pain**

***Note*** 5

*Repeat **STEP 5 to 17** in 3.2.1 Create New MTAC Reporting with No Specific Details section before performing MTAC Reporting - Specific Details for Pain.*

**STEP 1**
Enter ***Pain History***

**STEP 2**
Enter ***Others***:
- **Traditional Complementary Medicines**
- **Location of Pain**

**STEP 3**
Enter ***Pain Evaluation***:
- **Pain Score**
- **Current Medication**
- **Pain Aggravating Factors**
- **Pain Relieving Factors**

**STEP 4**

Click on the Save & Continue button to save and continue with reporting section

**STEP 4**

Click on the Yes button to confirm save record

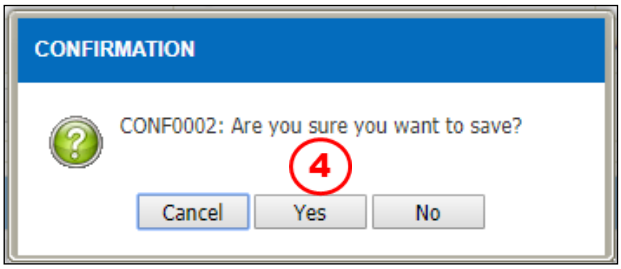



**Figure 3.2.2.15-2 Confirmation Alert Message**

**STEP 5**

Click on the OK button to confirm record

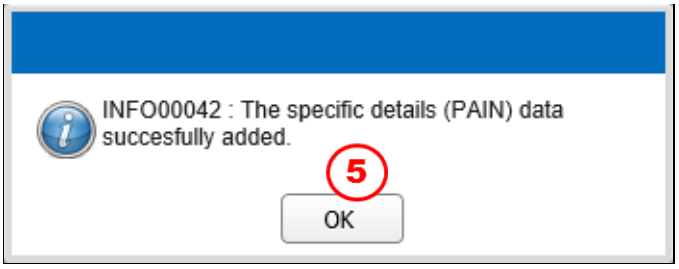



**Figure 3.2.2.15-3 Information Alert Message**

### 3.2.3 MyMAAT

This function allows user to record adherence level of patients based on provided assessment

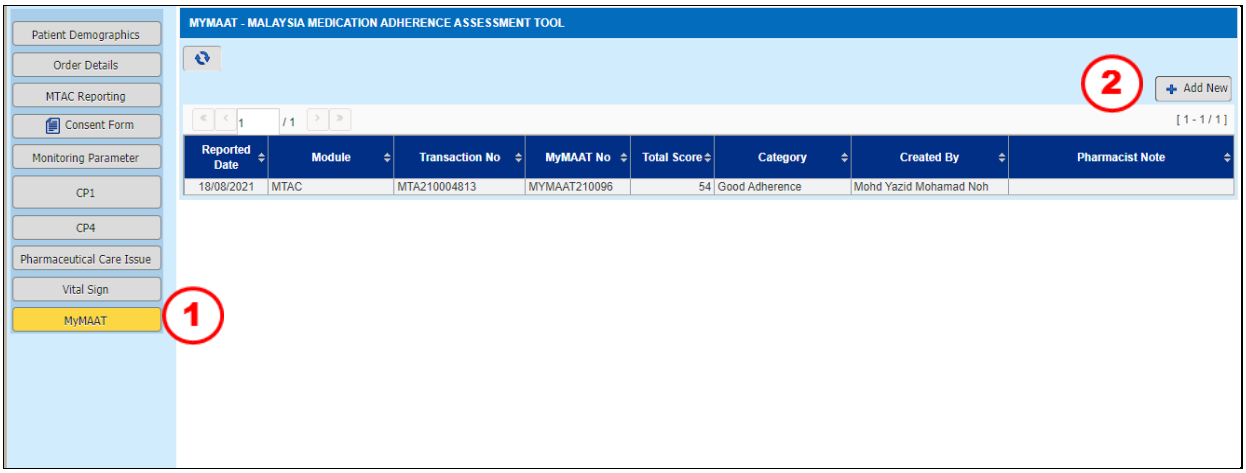



**Figure 3.2.3-1 MTAC Reporting Screen**

**STEP 1**

Click on the MyMAAT button to enter MyMAAT screen

**STEP 2**

Click on the Add New button to add new record and system will display as per Figure 3.2.3-2

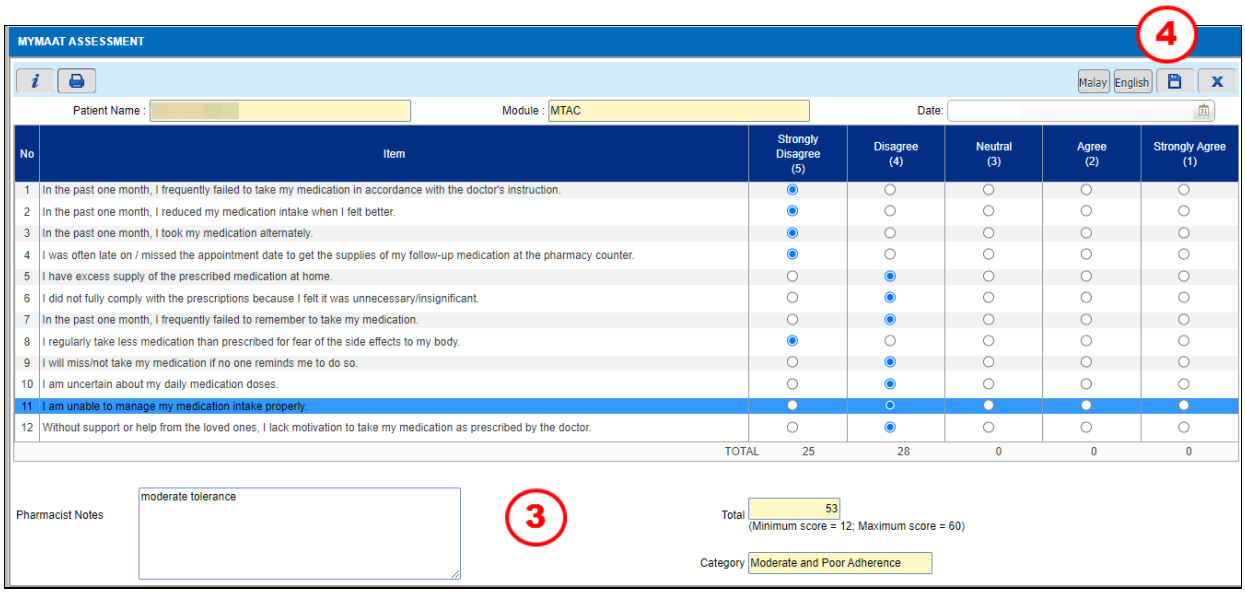



**Figure 3.2.2.6-2 MYMAAT Assessment Screen**

***Note***

*Click* on the Malay English *button to view assessment in Malay Language or English language*

**STEP 3**

Fill up the assessment and ***Pharmacist Notes*** *and system will generate the T****otal score*** *and* ***Category***

**STEP 4**

Click on the button to save the record

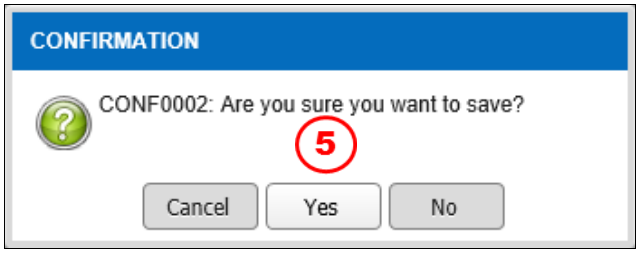
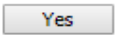



**Figure 3.2.3-3 Confirmation Message**

**STEP 5**

Click on the  button to confirm

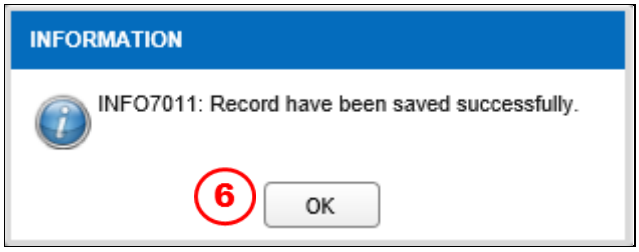
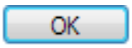



**Figure 3.2.3-4 Information Message**

**STEP 6**

Click on the  button to confirm record

***Note***

*Click on the* *button to print and system will display Bahagian 1 and Bahagian 2 as per Figure 3.2.3-4 and Figure 3.2.3-5*

KEMENTERIAN KESIHATAN MALAYSIA

Hospital Seri Manjung

MALAYSIA MEDICATION ADHERENCE ASSESSMENT TOOL (MyMAAT)

| | | | |
|---|---|---|---|
| **Patient's Name** | ABC | **MRN** | HSM00241777 |
| | | **Date** | 20/12/2022 |
| **IC No/Other Identification** | 990103075133 | **Location** | Outpatient Pharmacy |

**Part I: Perception on Patient's Adherence Towards Medication**

| No | Item | Strongly Disagree | Disagree | Neutral | Agree | Strongly Agree |
|---|---|---|---|---|---|---|
| | | 5 | 4 | 3 | 2 | 1 |
| 1 | In the past one month, I frequently failed to take my medication in accordance with the doctor's instruction. | ✓ | | | | |
| 2 | In the past one month, I reduced my medication intake when I felt better. | ✓ | | | | |
| 3 | In the past one month, I took my medication alternately. | | ✓ | | | |
| 4 | I was often late on / missed the appointment date to get the supplies of my follow-up medication at the pharmacy counter. | | ✓ | | | |
| 5 | I have excess supply of the prescribed medication at home. | ✓ | | | | |
| 6 | I did not fully comply with the prescriptions because I felt it was unnecessary/insignificant. | | ✓ | | | |
| 7 | In the past one month, I frequently failed to remember to take my medication. | | | ✓ | | |
| 8 | I regularly take less medication than prescribed for fear of the side effects to my body. | | | ✓ | | |
| 9 | I will miss/not take my medication if no one reminds me to do so. | | ✓ | | | |
| 10 | I am uncertain about my daily medication doses. | | | ✓ | | |
| 11 | I am unable to manage my medication intake properly. | ✓ | | | | |
| 12 | Without support or help from the loved ones, I lack motivation to take my medication as prescribed by the doctor. | | ✓ | | | |
| | Total | 20 | 20 | 9 | 0 | 0 |
| | (Minimum score = 12; Maximum score = 60) | 49 | | | | |

**Figure 3.2.3-5 MyMAAT Report Part I**

KEMENTERIAN KESIHATAN MALAYSIA

Hospital Seri Manjung

MALAYSIA MEDICATION ADHERENCE ASSESSMENT TOOL (MyMAAT)

**Part II : Category of Patient's Adherence Towards Medication**

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

| Category | Total Score |
|---|---|
| Good adherence | >= 54 |
| Moderate and poor adherence | < 54 |

**Part III : Summary on Patient's Adherence Towards Medication**

| | |
|---|---|
| Total Score | 49 |
| Adherence Category | Moderate and Poor Adherence |
| Pharmacist's Note | |

Pharmacist Name : TIONG WAN QIAN

Date : 20/12/2022

Module : MTAC

**Figure 3.2.3-5 MyMAAT Report Part II**

## 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* | | |