



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

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## **User Manual Integrated Web Portal (IWP) Maintenance - Pharmacy**

|                    |   |
|--------------------|---|
| <b>Version</b>     | <b>: 13<sup>th</sup> Edition</b>          |
| <b>Document ID</b> | <b>: HQ_U.MANUAL_IWP_MAINTENANCE_PHAR</b> |



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*Reference ID : HQ\_U.MANUAL\_IWP\_MAINTENANCE\_PHAR-13<sup>th</sup> E*

*Application reference: PhIS & CPS v2.6.1*



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## 1.0 Introduction

### 1.1 Overview of PhIS

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

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

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

### 1.2 Purpose and Objectives

This user manual outlines the IWP (Maintenance Pharmacy) sub-module and its key features and functionalities. The primary objective is to guide users through the process of completing PhIS application process.

User will understand the following activities in details:

- Create a new maintenance Pharmacy
- Edit a Maintenance Pharmacy

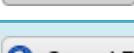
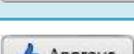
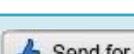
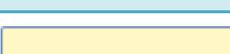
### 1.3 Organised Sections

These are the sections within this document:

- Section 1: Introduction
- Section 2: Application Standard Features
- Section 3: Maintenance Pharmacy
- Section 4: Acronyms
- Section 5 : Link to IWP Modules

## 2.0 Application Standard Features

### 2.1 PhIS Legend

| Standard Legend   |                                    |  |  |
|---|------------------------------------|--|--|
|    | Login to PhIS                      |     | Logout from PhIS                       |
|    | Change Login Password              |     | Reset Login Screen                     |
|    | Expand Menu                        |     | Collapse Menu                          |
|    | Display Home Tab                   |     | Expand Module                          |
|    | Collapse Module                    |     | Close All Open Tabs                    |
|    | Refresh Screen                     |     | Search Record                          |
|    | Add/Create New Record              |     | Show Help                              |
|  | Print                              | *  | Mandatory Field                        |
|  | Calendar Icon                      |   | Search Icon                            |
|  | Close Window                       |   | Radio Button                           |
| <input type="checkbox"/>  | Checkbox                           |   | Edit Record                            |
|  | Cancel                             |   | Delete Record                          |
|  | Save                               |  | Export and Open Report in Excel Format |
|  | Add Item to the list               |   | Delete Item from the list              |
|  | Request for Approval               |  | Cancel the Request                     |
|  | Approve Transaction                |   | Reject Transaction                     |
|  | Send for Approval                  |  | Dropdown Box                           |
|  | Automatically Display/Retrieve Box |  | Empty Text Box                         |

#### Note

- To learn more about Login Information, kindly click [Login Information](#) Modules for descriptive step.

### 3.0 Maintenance - Pharmacy

#### Overview

Application maintenance describes the relationship, details of the data flow for each function, the details validation and data/information that required being setup for system purpose. The module will provide a portal for configuration guide for the user which describe the basic and advance featured available on the system. This featured allow user to view and modify existing record and also create new record for each module. This application enables the facility to perform any modification to existing setting.

#### User Group

This module is intended for BPF users (subject to user assigned by the BPF)

#### Functional Diagram

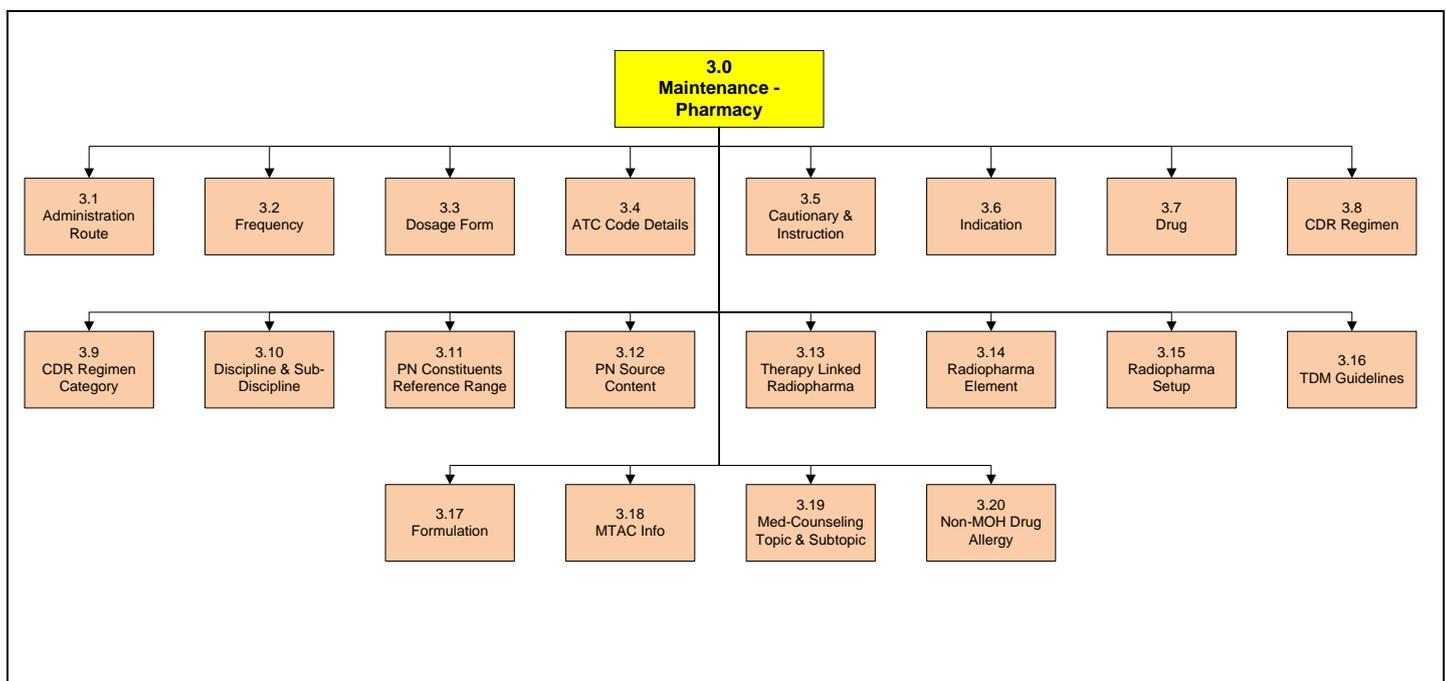


Figure 3.0

#### Maintenance Pharmacy Setup module (HQ) comprised of:

- Administration Route**  
 Allows user to create or modify administration route records. The administration Route records will be used by Drug Master, Order Management, Inpatient Pharmacy and Outpatient Pharmacy in PhIS system.
- Frequency master**  
 Frequency is number of times that drug occurs within a given period or per day. The number of drug order and dispense is an interval of a frequency distribution. Facility user is able to view existing record for frequency master details done by HQ in system.
- Dosage Form**  
 Allows user to create or modify dosage form records. The dosage form records will be used for Inventory, Drug Master, Order Management, Inpatient Pharmacy and Outpatient Pharmacy in PhIS system.
- Active Ingredient**  
 Active ingredients are components in a drug that provide some pharmaceutical value, in contrast with the inactive ingredients, which act as carriers to make the drug easier for the body to process.



- **ACT Code details**

The Anatomical Therapeutic Chemical (ATC) Classification System is used for the classification of drugs. This pharmaceutical coding system divides drugs into different groups according to the organ or system on which they act on their therapeutic and chemical characteristics. One drug can have more than one code: several different brands share the same code if they have the same active substance and indications. Facility user is able to view existing record for ATC code details done by HQ in system

- **Cautionary & Instruction**

Cautionary are intended to warn or advice to beware about drug, or when taking drug. Instruction intended to advice about drug or way to take drug

- **Indication**

An indication is a valid reason to use a certain test, medication, procedure, or surgery. Indicated as necessary or expedient, as in the administration of a drug. System will suggest the proper treatment of a disease as that demanded by its cause or symptoms.

- **Drug**

Drug is natural or synthetic substance which taken into a living body affects its functioning or structure, and is used in the diagnosis, mitigation, treatment, or prevention of a disease or relief of discomfort. Drug screen allows user facility user to view and to modify drug master records. The Drug records will be used for Inpatient Pharmacy, Outpatient Pharmacy, Medication Order and Manufacturing modules in system.

- **CDR Regimen Master**

Cytotoxic Drug Reconstitution (CDR) an anticancer drug which acts by killing or preventing the cell division. Any program (including drugs) that regulates aspects of one's lifestyle for a hygienic or therapeutic purpose; a program of treatment. System able to view apply treatment plan that specifies the dosage, the schedule, and the duration of Treatment, regimen code, regimen Status, regimen description, category, sub-category, cycle duration, no of cycles and remarks of the regimen if any while creating a new regimen. CDR Regimen Master setup by HQ.

- **CDR Regimen Category**

Cytotoxic Drug Reconstitution (CDR) regimen is a plan a regulated medical treatment designed to give a positive result. CDR regimen categories are Hematology, Oncology, Pediatric and others. Category is important, in order to prepare the regimen for CDR treatment. Facility user able to view category and regimen type in system.

- **Prescriber**

Is a person give directions, either orally or in writing, for the preparation and administration of a remedy to be used in the treatment of any disease System will create new register number for prescriber using system. Record prescriber details in system. Facility user able to edit and save record.

- **Discipline & Sub-Discipline Master**

Discipline and sub-discipline are facility department responsible for the administration of functions and activities pertaining to the delivery of medication treatment. System will be setup by HQ according to based on facility setup.

- **PN Constituents Reference Range**

Parenteral Nutrition (PN) is used for patients who cannot or should not get their nutrition through eating. PN may include a combination of sugar and carbohydrates (for energy), proteins (for muscle strength), lipids (fat), electrolytes, and trace elements. Nutrients may contain all or some of these substances, depending on your condition. PN Constituents screen able facility user to view combination and definition of nutrients.



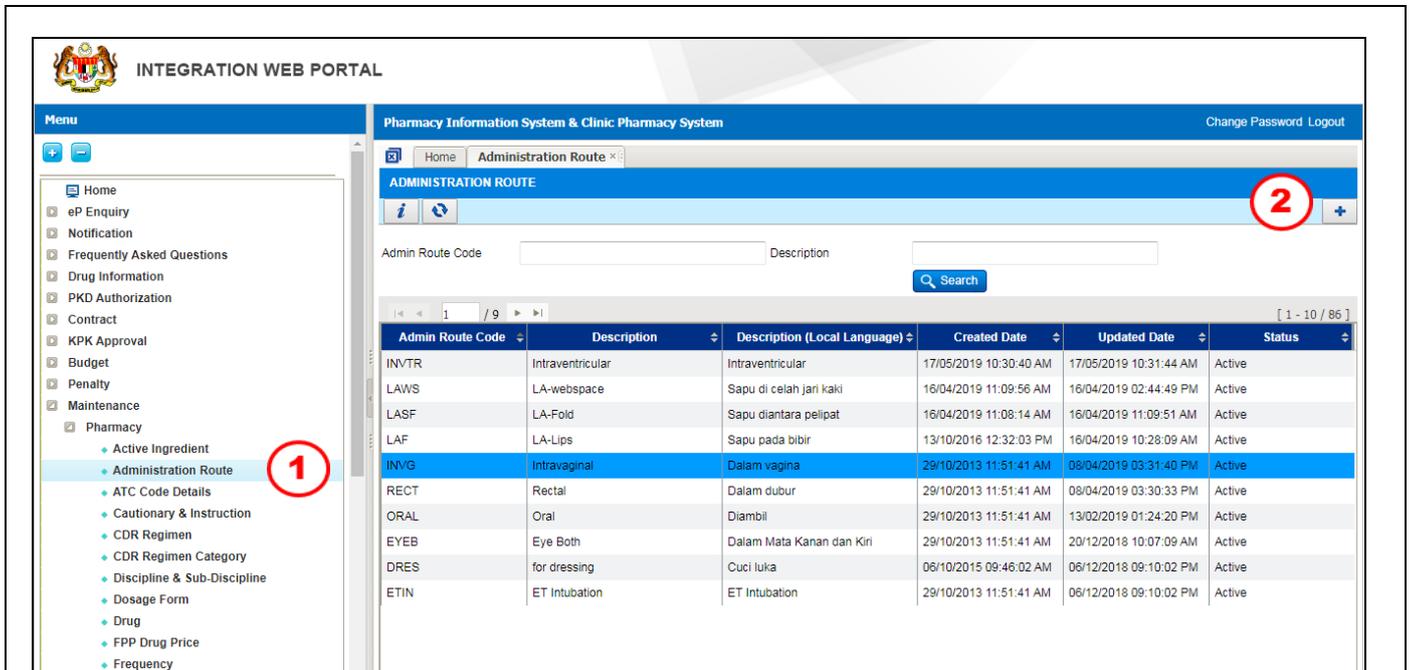
- **PN Source Contents**

The screen allows defining the value for the PN Generics content and value of calculation from ordering unit to volume unit. HQ setup will be based on the value and unit for each of ingredient based on type of PN Generics. On change of Generics, the list of Ingredients will change accordingly facility user able to select drug name and PN Type and view PN source content.

### 3.1 Administration Route

#### 3.1.1 Create New Administration Route

To Create New Administration Route records, perform the steps below:



INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Home Administration Route

ADMINISTRATION ROUTE

Admin Route Code Description Search

| Admin Route Code | Description      | Description (Local Language) | Created Date           | Updated Date           | Status |
|------------------|------------------|------------------------------|------------------------|------------------------|--------|
| INVTR            | Intraventricular | Intraventricular             | 17/05/2019 10:30:40 AM | 17/05/2019 10:31:44 AM | Active |
| LAWS             | LA-webpace       | Sapu di celah jari kaki      | 16/04/2019 11:09:56 AM | 16/04/2019 02:44:49 PM | Active |
| LASF             | LA-Fold          | Sapu diantara pelipat        | 16/04/2019 11:08:14 AM | 16/04/2019 11:09:51 AM | Active |
| LAF              | LA-Lips          | Sapu pada bibir              | 13/10/2016 12:32:03 PM | 16/04/2019 10:28:09 AM | Active |
| INVG             | Intravaginal     | Dalam vagina                 | 29/10/2013 11:51:41 AM | 08/04/2019 03:31:40 PM | Active |
| RECT             | Rectal           | Dalam dubur                  | 29/10/2013 11:51:41 AM | 08/04/2019 03:30:33 PM | Active |
| ORAL             | Oral             | Diambil                      | 29/10/2013 11:51:41 AM | 13/02/2019 01:24:20 PM | Active |
| EYEB             | Eye Both         | Dalam Mata Kanan dan Kiri    | 29/10/2013 11:51:41 AM | 20/12/2018 10:07:09 AM | Active |
| DRES             | for dressing     | Cuci luka                    | 06/10/2015 09:46:02 AM | 06/12/2018 09:10:02 PM | Active |
| ETIN             | ET Intubation    | ET Intubation                | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:02 PM | Active |

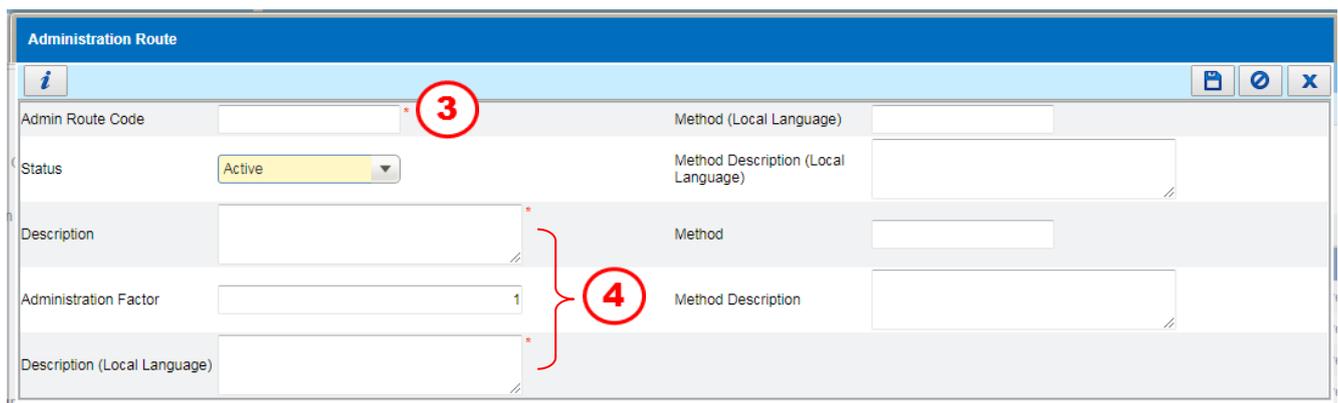
Figure 3.1.1-1 Administration Route Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on the Administration Route sub menu.

#### STEP 2

Click on the  button to create a new record and Administration Route screen will be displayed as Figure 3.1.1-2



Administration Route

Admin Route Code \* Method (Local Language)

Status Active Method Description (Local Language)

Description \* Method

Administration Factor 1 Method Description

Description (Local Language) \*

Figure 3.1.1-2 Administration Route Listing Page

#### STEP 3

Enter **Admin Route Code**

#### STEP 4

Enter **Description and Description (Local Language)**

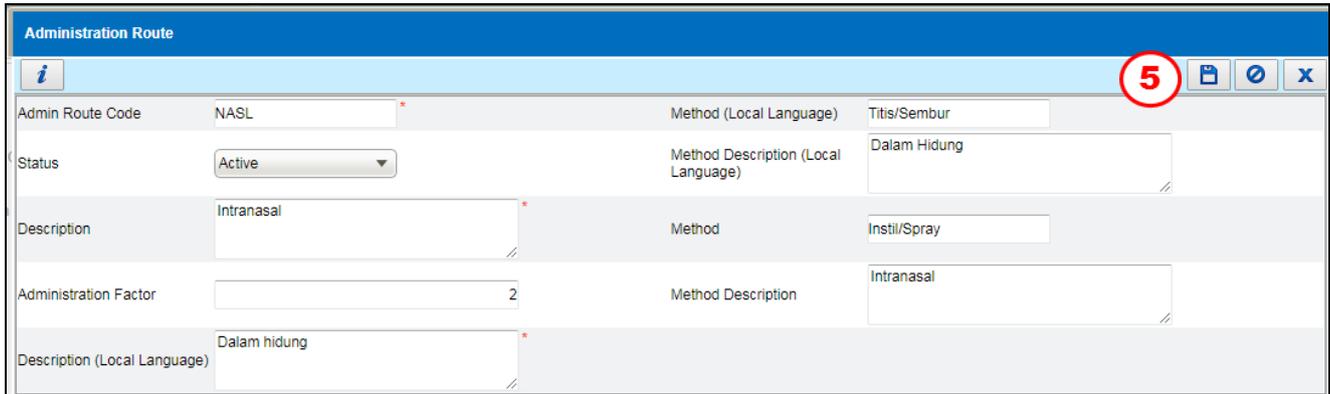


Figure 3.1.1-3 Administration Route Listing Page

**STEP 5**

Click on the  button to save the record

**Note**

- Enter **Method (Local Language)**, **Method Description (Local Language)**, **Method** and **Method Description** if needed.
- System will display a Confirmation Message as Figure 3.1.1-4

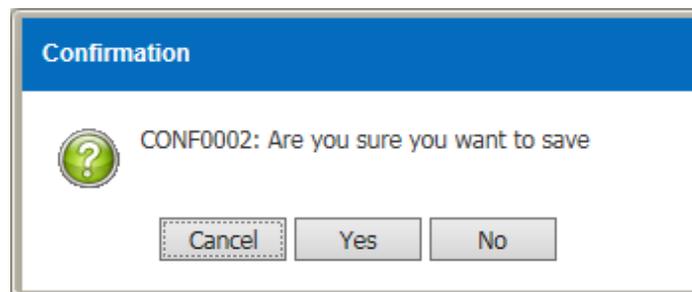
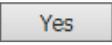
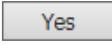


Figure 3.1.1-4 Confirmation Message

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.1.1-5

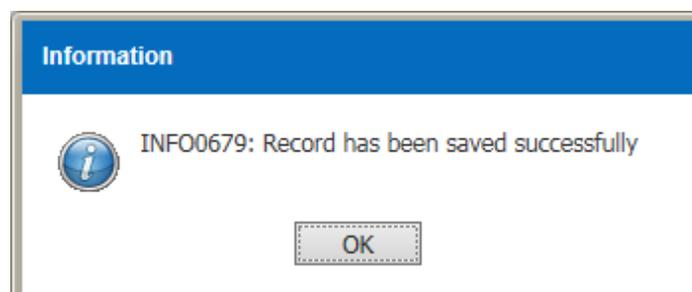
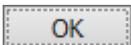
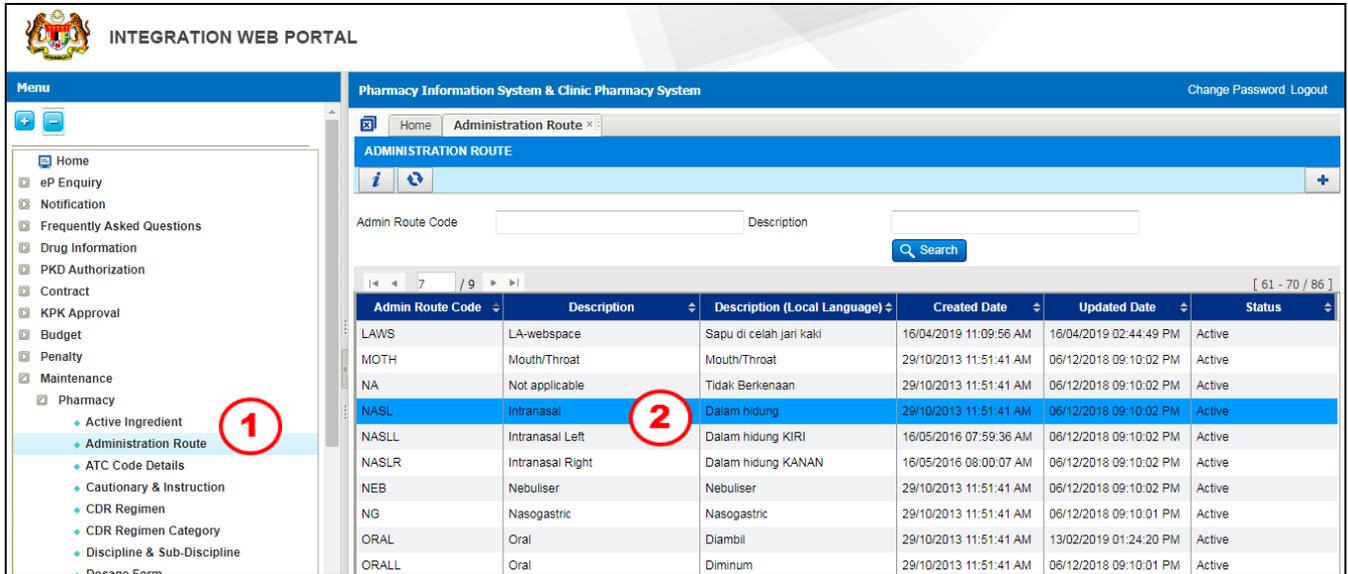


Figure 3.1.1-5 Information Message

- Click on the  button to confirmed the record

### 3.1.2 Modify Administration Route

To modify Administration Route records, perform the steps below:



**ADMINISTRATION ROUTE**

| Admin Route Code | Description       | Description (Local Language) | Created Date           | Updated Date           | Status |
|------------------|-------------------|------------------------------|------------------------|------------------------|--------|
| LAWS             | LA-webpage        | Sapu di celah jari kaki      | 16/04/2019 11:09:56 AM | 16/04/2019 02:44:49 PM | Active |
| MOTH             | Mouth/Throat      | Mouth/Throat                 | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:02 PM | Active |
| NA               | Not applicable    | Tidak Berkenaan              | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:02 PM | Active |
| <b>NASL</b>      | <b>Intranasal</b> | <b>Dalam hidung</b>          | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:02 PM | Active |
| NASLL            | Intranasal Left   | Dalam hidung KIRI            | 16/05/2016 07:59:36 AM | 06/12/2018 09:10:02 PM | Active |
| NASLR            | Intranasal Right  | Dalam hidung KANAN           | 16/05/2016 08:00:07 AM | 06/12/2018 09:10:02 PM | Active |
| NEB              | Nebuliser         | Nebuliser                    | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:02 PM | Active |
| NG               | Nasogastric       | Nasogastric                  | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:01 PM | Active |
| ORAL             | Oral              | Diambil                      | 29/10/2013 11:51:41 AM | 13/02/2019 01:24:20 PM | Active |
| ORALL            | Oral              | Diminum                      | 29/10/2013 11:51:41 AM | 06/12/2018 09:10:01 PM | Active |

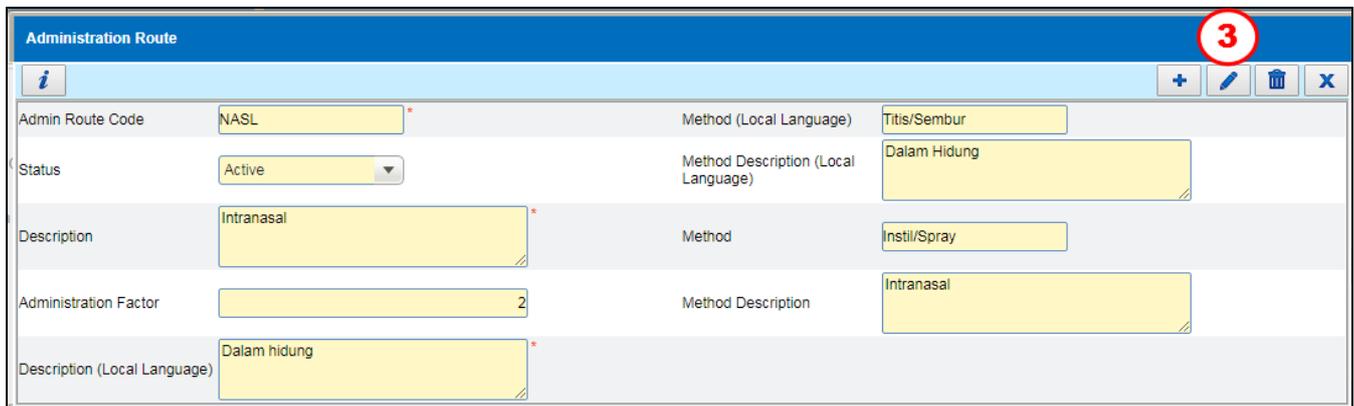
Figure 3.1.2-1 Administration Route Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on the Administration Route sub menu.

#### STEP 2

Double click on selected record



**Administration Route**

Admin Route Code:  \*  
 Status:   
 Description:  \*  
 Administration Factor:   
 Description (Local Language):  \*  
 Method (Local Language):   
 Method Description (Local Language):   
 Method:   
 Method Description:

Figure 3.1.2-2 Administration Route

#### STEP 3

Click on the  button to edit the record

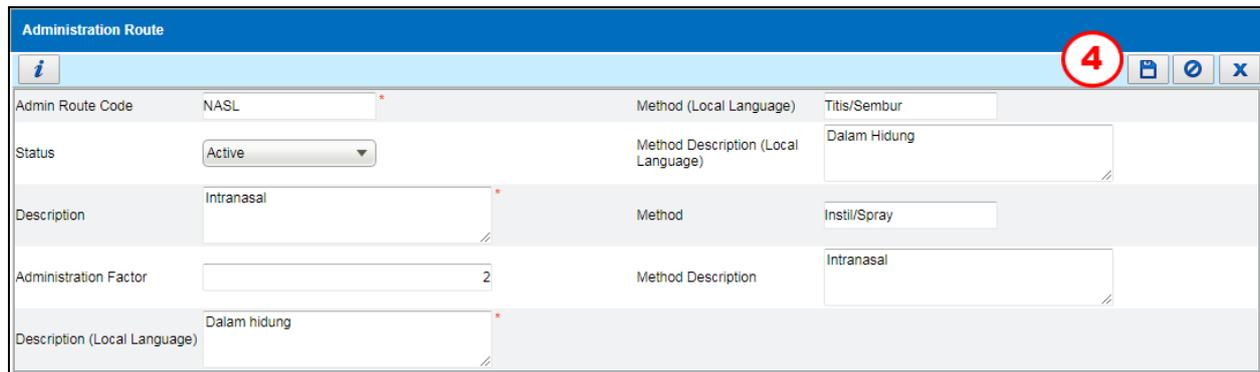


Figure 3.1.2-3 Administration Route

**Note**

User is allowing to edit:

- **Admin Route Code**
- **Status**
- **Description**
- **Administration Factor**
- **Description (Local Language)**
- **Method (Local Language)**
- **Method Description (Local Language)**
- **Method**
- **Method Description**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.1.2-4

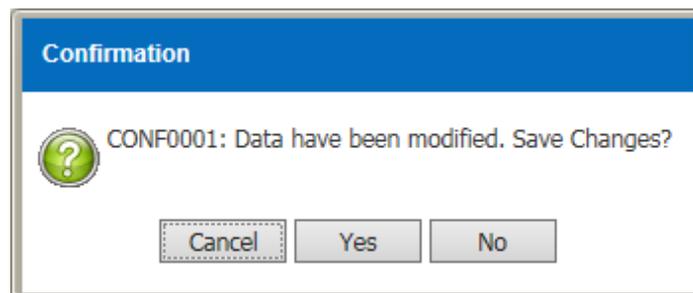
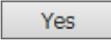
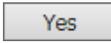
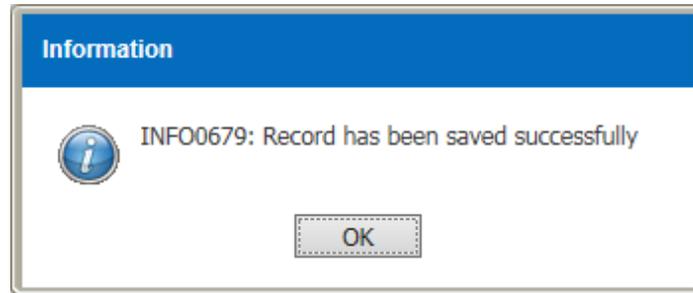


Figure 3.1.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.1.2-5



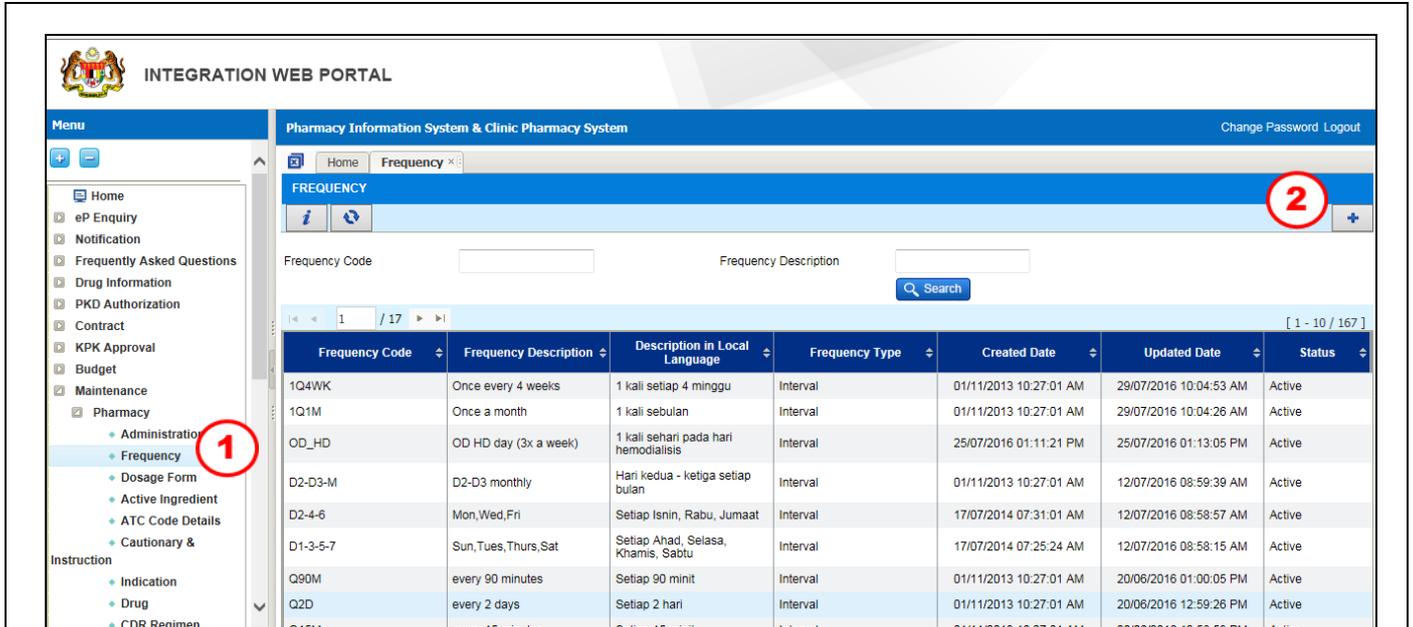
**Figure 3.1.2-5 Information Message**

- Click on the  button to confirmed the edited record

### 3.2 Frequency

#### 3.2.1 Create New Frequency

To Create New Frequency records, perform the steps below:



| Frequency Code | Frequency Description | Description in Local Language        | Frequency Type | Created Date           | Updated Date           | Status |
|----------------|-----------------------|--------------------------------------|----------------|------------------------|------------------------|--------|
| 1Q4WK          | Once every 4 weeks    | 1 kali setiap 4 minggu               | Interval       | 01/11/2013 10:27:01 AM | 29/07/2016 10:04:53 AM | Active |
| 1Q1M           | Once a month          | 1 kali sebulan                       | Interval       | 01/11/2013 10:27:01 AM | 29/07/2016 10:04:26 AM | Active |
| OD_HD          | OD HD day (3x a week) | 1 kali sehari pada hari hemodialisis | Interval       | 25/07/2016 01:11:21 PM | 25/07/2016 01:13:05 PM | Active |
| D2-D3-M        | D2-D3 monthly         | Hari kedua - ketiga setiap bulan     | Interval       | 01/11/2013 10:27:01 AM | 12/07/2016 08:59:39 AM | Active |
| D2-4-6         | Mon,Wed,Fri           | Setiap Isnin, Rabu, Jumaat           | Interval       | 17/07/2014 07:31:01 AM | 12/07/2016 08:58:57 AM | Active |
| D1-3-5-7       | Sun,Tues,Thurs,Sat    | Setiap Ahad, Selasa, Khamis, Sabtu   | Interval       | 17/07/2014 07:25:24 AM | 12/07/2016 08:58:15 AM | Active |
| Q90M           | every 90 minutes      | Setiap 90 minit                      | Interval       | 01/11/2013 10:27:01 AM | 20/06/2016 01:00:05 PM | Active |
| Q2D            | every 2 days          | Setiap 2 hari                        | Interval       | 01/11/2013 10:27:01 AM | 20/06/2016 12:59:26 PM | Active |

Figure 3.2.1-1 Frequency Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Frequency sub menu.

#### STEP 2

Click on the  button and Frequency screen will be displayed as Figure 3.2.1-2

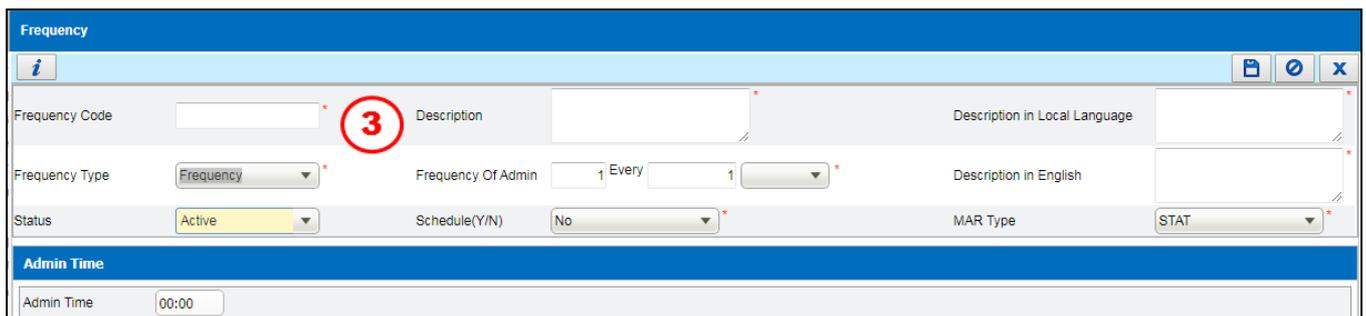
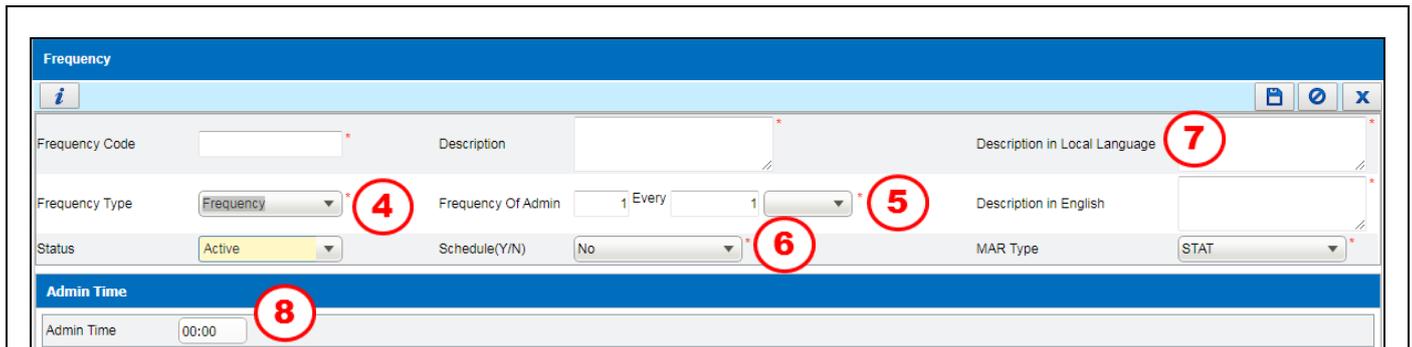


Figure 3.2.1-2 Frequency

#### STEP 3

Enter **Frequency Code**, **Frequency Type** and **Description**



The screenshot shows the 'Frequency' form in the PhIS system. The form is divided into two main sections: 'Frequency' and 'Admin Time'. The 'Frequency' section contains several fields: 'Frequency Code' (text input), 'Description' (text input), 'Description in Local Language' (text input, circled 7), 'Frequency Type' (dropdown menu, circled 4), 'Frequency Of Admin' (text input '1' followed by a dropdown menu 'Every' and another text input '1', circled 5), 'Description in English' (text input), 'Status' (dropdown menu 'Active'), 'Schedule(Y/N)' (dropdown menu 'No', circled 6), and 'MAR Type' (dropdown menu 'STAT'). The 'Admin Time' section contains a single field: 'Admin Time' (text input '00:00', circled 8). The form has a blue header and a light blue background.

Figure 3.2.1-3 Frequency

**STEP 4**

Select **Frequency** from drop down box:

- **Continuous**
- **Frequency**
- **Interval**
- **PRN**
- **STAT**

**STEP 5**

Fill the **Frequency of Admin**

**STEP 6**

Click on the Dropdown Box to choose the **Schedule** status:

- **Yes**
- **No**

**STEP 7**

Fill the **Description in Local Language** and **Description in English**

**STEP 8**

Fill the **Admin Time**

**Note**

*Admin Time will be based on **Frequency of Admin** and **Schedule** status is **Yes***

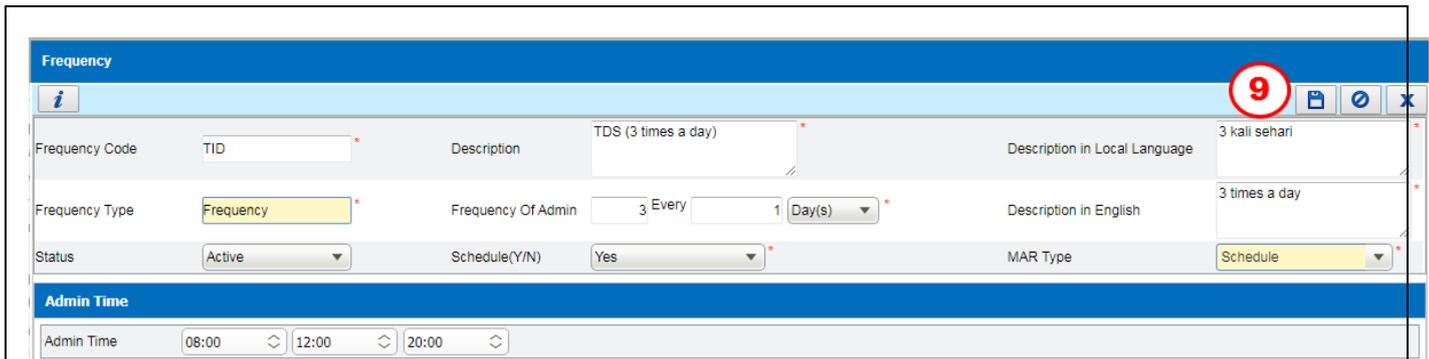


Figure 3.2.1-4 Frequency

**STEP 9**

Click on the  button to save the record

**Note**

- Confirmation message as shown in Figure 3.2.1-5 will be displayed after user save the record

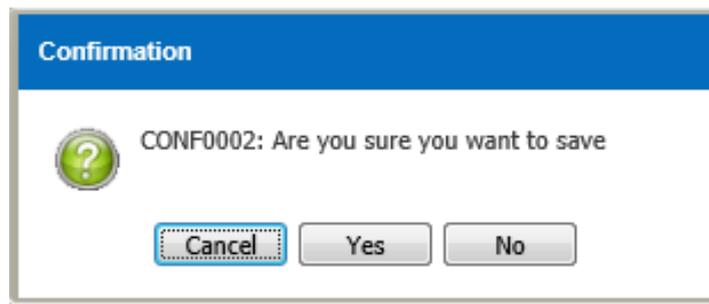


Figure 3.2.1-5 Confirmation Message

- Record will save when user click on the  button as shown in Figure 3.2.1-6

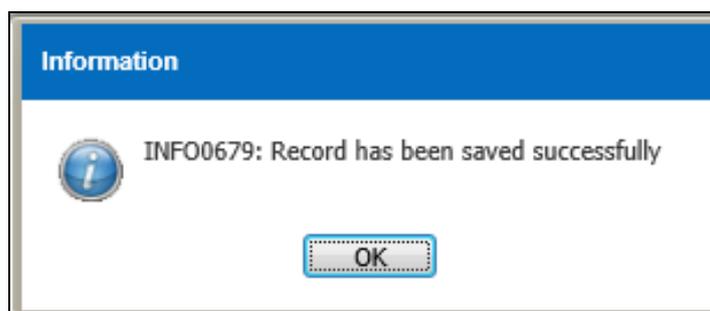
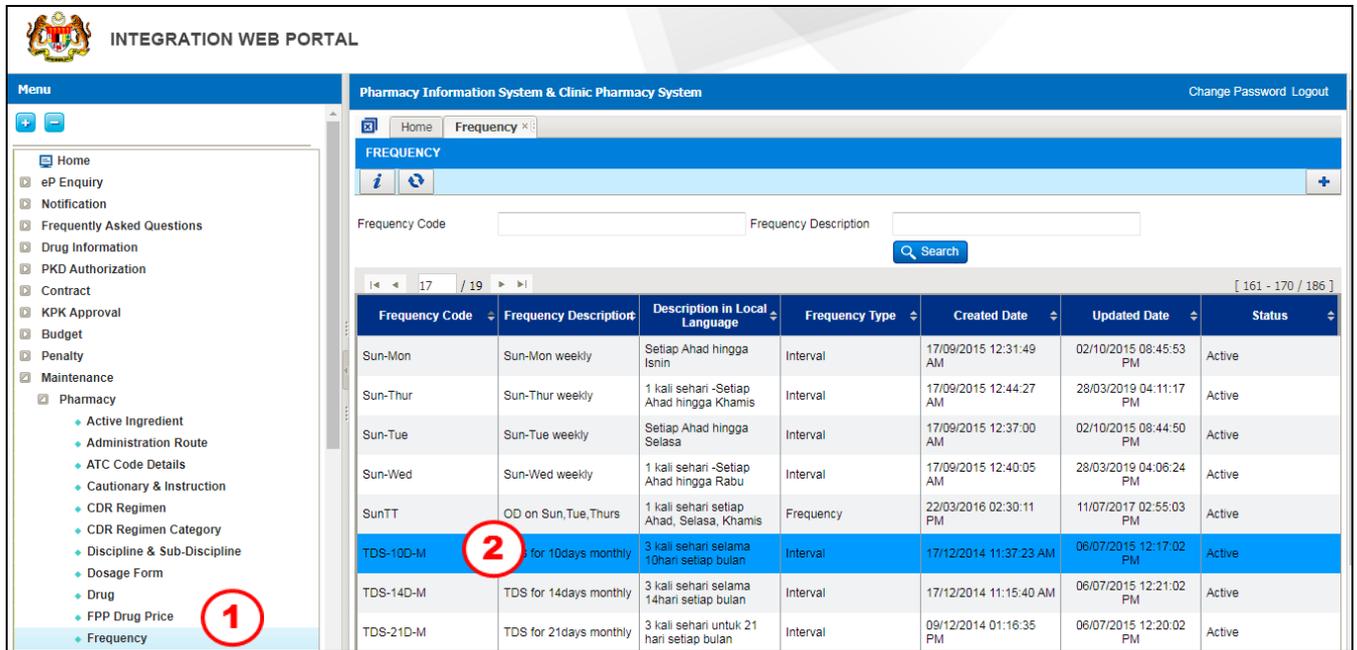


Figure 3.2.1-6 Information Message

- Click on the  button to close the Frequency screen.

### 3.2.2 Modify Frequency

To modify Frequency records, perform the steps below:



| Frequency Code | Frequency Description  | Description in Local Language             | Frequency Type | Created Date           | Updated Date           | Status |
|----------------|------------------------|---|----------------|------------------------|------------------------|--------|
| Sun-Mon        | Sun-Mon weekly         | Setiap Ahad hingga Isnin                  | Interval       | 17/09/2015 12:31:49 AM | 02/10/2015 08:45:53 PM | Active |
| Sun-Thur       | Sun-Thur weekly        | 1 kali sehari -Setiap Ahad hingga Khamis  | Interval       | 17/09/2015 12:44:27 AM | 28/03/2019 04:11:17 PM | Active |
| Sun-Tue        | Sun-Tue weekly         | Setiap Ahad hingga Selasa                 | Interval       | 17/09/2015 12:37:00 AM | 02/10/2015 08:44:50 PM | Active |
| Sun-Wed        | Sun-Wed weekly         | 1 kali sehari -Setiap Ahad hingga Rabu    | Interval       | 17/09/2015 12:40:05 AM | 28/03/2019 04:06:24 PM | Active |
| SunTT          | OD on Sun,Tue,Thurs    | 1 kali sehari setiap Ahad, Selasa, Khamis | Frequency      | 22/03/2016 02:30:11 PM | 11/07/2017 02:55:03 PM | Active |
| TDS-10D-M      | for 10days monthly     | 3 kali sehari selama 10hari setiap bulan  | Interval       | 17/12/2014 11:37:23 AM | 06/07/2015 12:17:02 PM | Active |
| TDS-14D-M      | TDS for 14days monthly | 3 kali sehari selama 14hari setiap bulan  | Interval       | 17/12/2014 11:15:40 AM | 06/07/2015 12:21:02 PM | Active |
| TDS-21D-M      | TDS for 21days monthly | 3 kali sehari untuk 21 hari setiap bulan  | Interval       | 09/12/2014 01:16:35 PM | 06/07/2015 12:20:02 PM | Active |

Figure 3.2.2-1 Frequency Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Frequency sub menu.

#### STEP 2

Double click on selected record

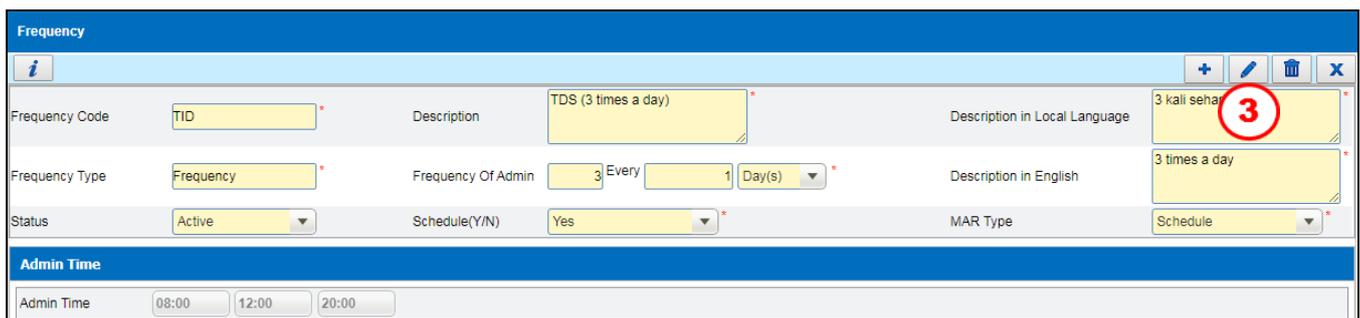
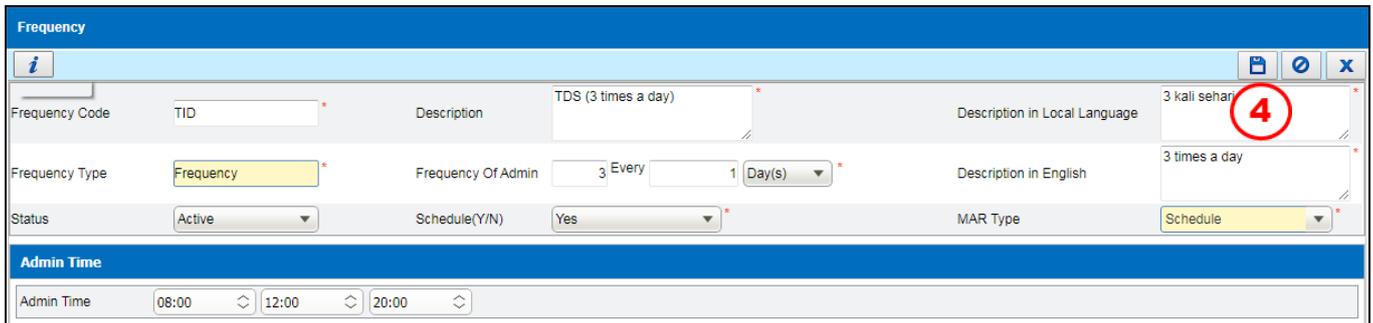


Figure 3.2.2-2 Frequency.

#### STEP 3

Click on the  button to edit the record



| Frequency      |           |                    |                     |
|----------------|-----------|--------------------|---------------------|
| Frequency Code | TID       | Description        | TDS (3 times a day) |
| Frequency Type | Frequency | Frequency Of Admin | 3 Every 1 Day(s)    |
| Status         | Active    | Schedule(Y/N)      | Yes                 |
| Admin Time     |           | 08:00 12:00 20:00  |                     |

Figure 3.2.2-3 Frequency

**Note**

User is allowed to edit:

- **Frequency Code**
- **Description**
- **Frequency Of Admin**
- **Status**
- **Schedule(Y/N)**
- **Description in Local Language**
- **Description in English**
- **Admin Time**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.2.2-4

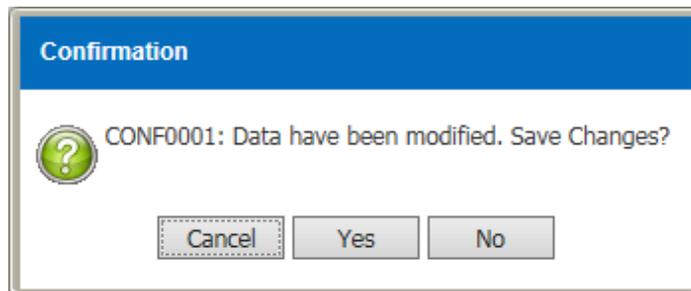
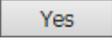
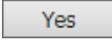
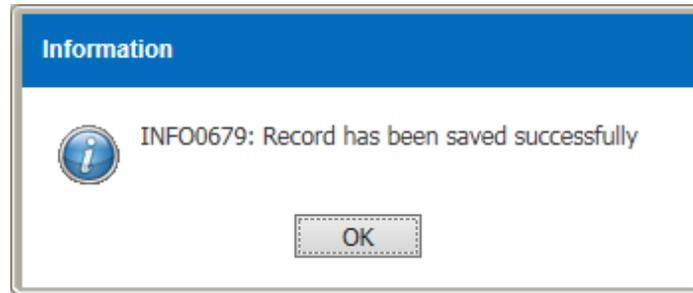


Figure 3.2.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.2.2-5



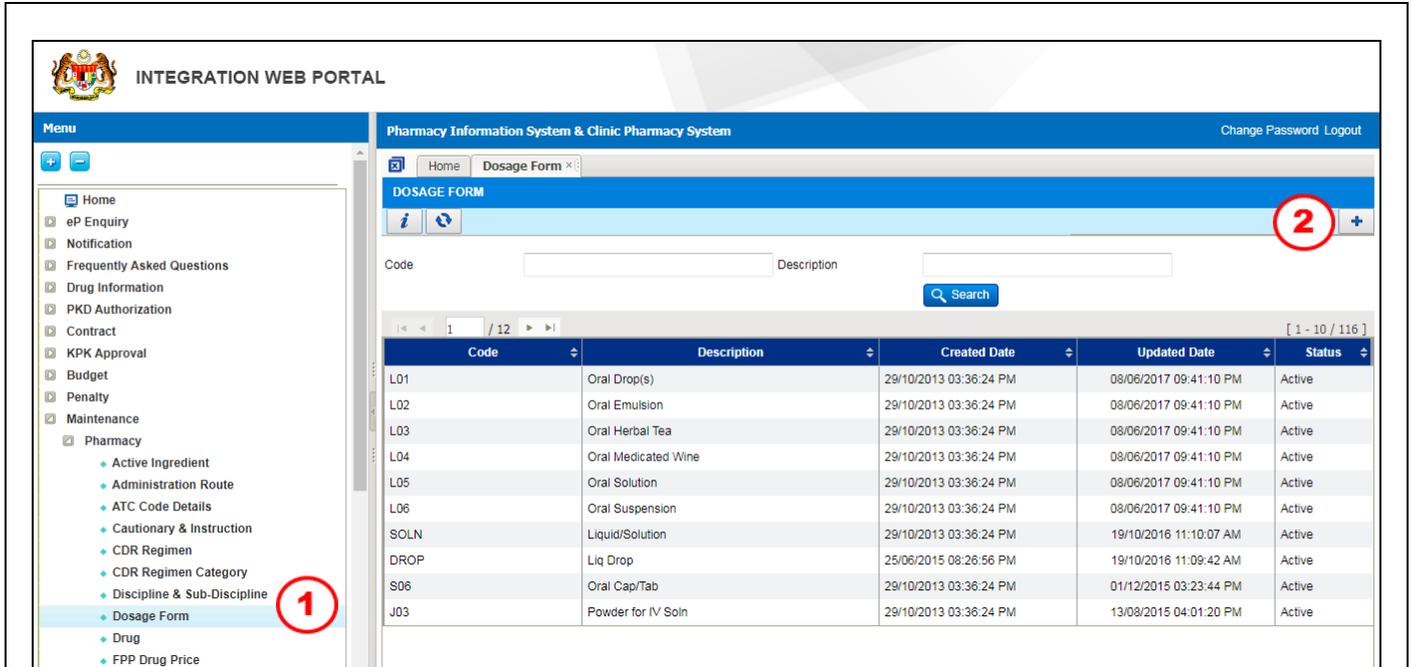
**Figure 3.2.2-5 Information Message**

- Click on the  button to confirmed the edited record

### 3.3 Dosage Form

#### 3.3.1 Create New Dosage Form

To Create New Dosage Form records, perform the steps below:



| Code | Description         | Created Date           | Updated Date           | Status |
|------|---------------------|------------------------|------------------------|--------|
| L01  | Oral Drop(s)        | 29/10/2013 03:36:24 PM | 08/06/2017 09:41:10 PM | Active |
| L02  | Oral Emulsion       | 29/10/2013 03:36:24 PM | 08/06/2017 09:41:10 PM | Active |
| L03  | Oral Herbal Tea     | 29/10/2013 03:36:24 PM | 08/06/2017 09:41:10 PM | Active |
| L04  | Oral Medicated Wine | 29/10/2013 03:36:24 PM | 08/06/2017 09:41:10 PM | Active |
| L05  | Oral Solution       | 29/10/2013 03:36:24 PM | 08/06/2017 09:41:10 PM | Active |
| L06  | Oral Suspension     | 29/10/2013 03:36:24 PM | 08/06/2017 09:41:10 PM | Active |
| SOLN | Liquid/Solution     | 29/10/2013 03:36:24 PM | 19/10/2016 11:10:07 AM | Active |
| DROP | Liq Drop            | 25/06/2015 08:26:56 PM | 19/10/2016 11:09:42 AM | Active |
| S06  | Oral Cap/Tab        | 29/10/2013 03:36:24 PM | 01/12/2015 03:23:44 PM | Active |
| J03  | Powder for IV Soln  | 29/10/2013 03:36:24 PM | 13/08/2015 04:01:20 PM | Active |

Figure 3.3.1-1 Dosage Form Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Dosage Form sub menu.

#### STEP 2

Click on the  button to create a new record and Dosage Form screen will be displayed as Figure 3.3.1-2

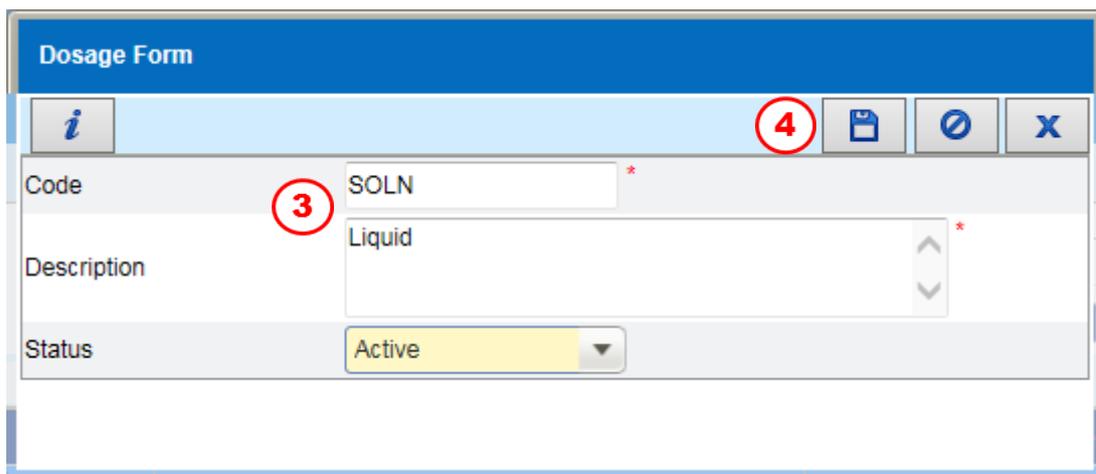


Figure 3.3.1-2 Add Dosage Form

#### STEP 3

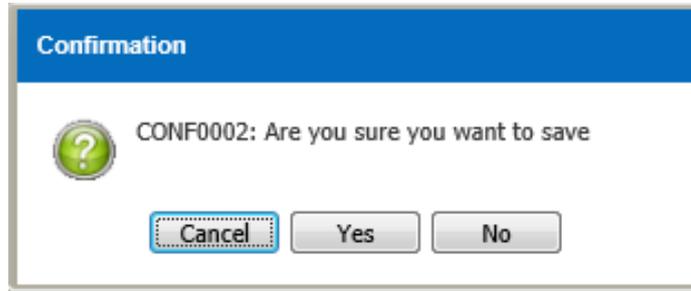
Enter **Code** and **Description**

**STEP 4**

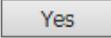
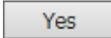
Click on the  button to save the record

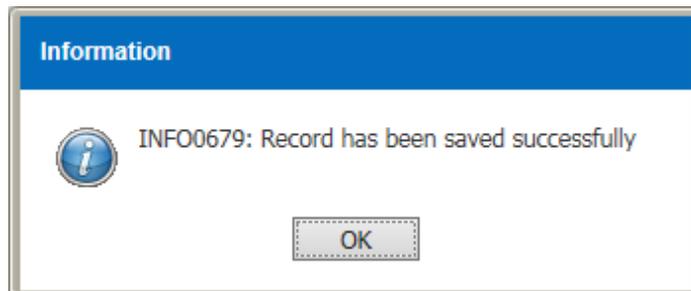
**Note**

- System will display a Confirmation Message as Figure 3.3.1-3



**Figure 3.3.1-3 Confirmation Message**

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.3.1-4

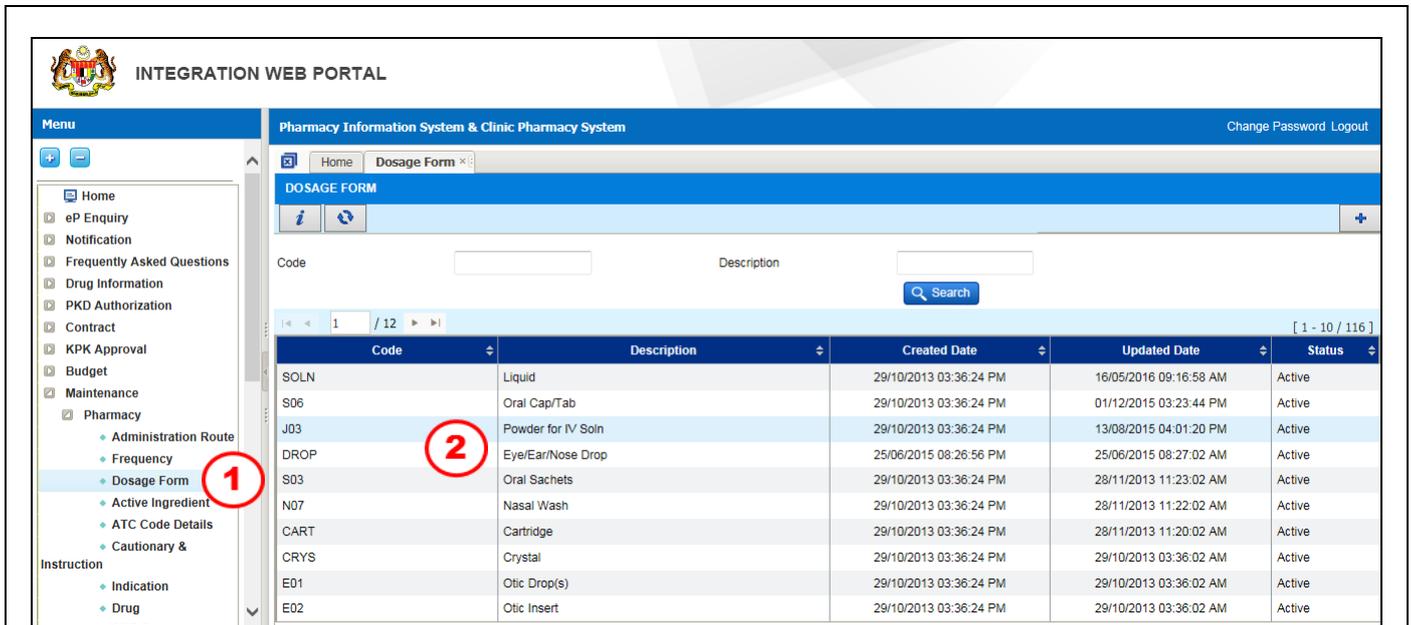


**Figure 3.3.1-4 Information Message**

- Click on the  button to confirmed the record

### 3.3.2 Update Dosage Form

To modify Dosage Form records, perform the steps below:



| Code | Description        | Created Date           | Updated Date           | Status |
|------|--------------------|------------------------|------------------------|--------|
| SOLN | Liquid             | 29/10/2013 03:36:24 PM | 16/05/2016 09:16:58 AM | Active |
| SD6  | Oral Cap/Tab       | 29/10/2013 03:36:24 PM | 01/12/2015 03:23:44 PM | Active |
| J03  | Powder for IV Soln | 29/10/2013 03:36:24 PM | 13/08/2015 04:01:20 PM | Active |
| DROP | Eye/Ear/Nose Drop  | 25/06/2015 08:26:56 PM | 25/06/2015 08:27:02 AM | Active |
| SD3  | Oral Sachets       | 29/10/2013 03:36:24 PM | 28/11/2013 11:23:02 AM | Active |
| N07  | Nasal Wash         | 29/10/2013 03:36:24 PM | 28/11/2013 11:22:02 AM | Active |
| CART | Cartridge          | 29/10/2013 03:36:24 PM | 28/11/2013 11:20:02 AM | Active |
| CRYS | Crystal            | 29/10/2013 03:36:24 PM | 29/10/2013 03:36:02 AM | Active |
| E01  | Otic Drop(s)       | 29/10/2013 03:36:24 PM | 29/10/2013 03:36:02 AM | Active |
| E02  | Otic Insert        | 29/10/2013 03:36:24 PM | 29/10/2013 03:36:02 AM | Active |

Figure 3.3.2-1 Dosage Form Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Dosage Form sub menu

#### STEP 2

Click on the selected record

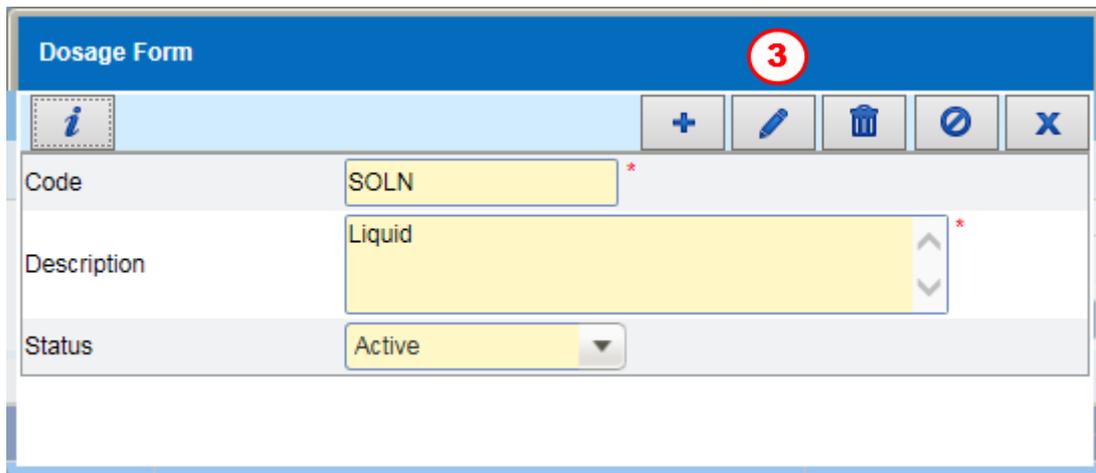


Figure 3.3.2-2 Add Dosage Form

#### STEP 3

Click on the  button to edit the record

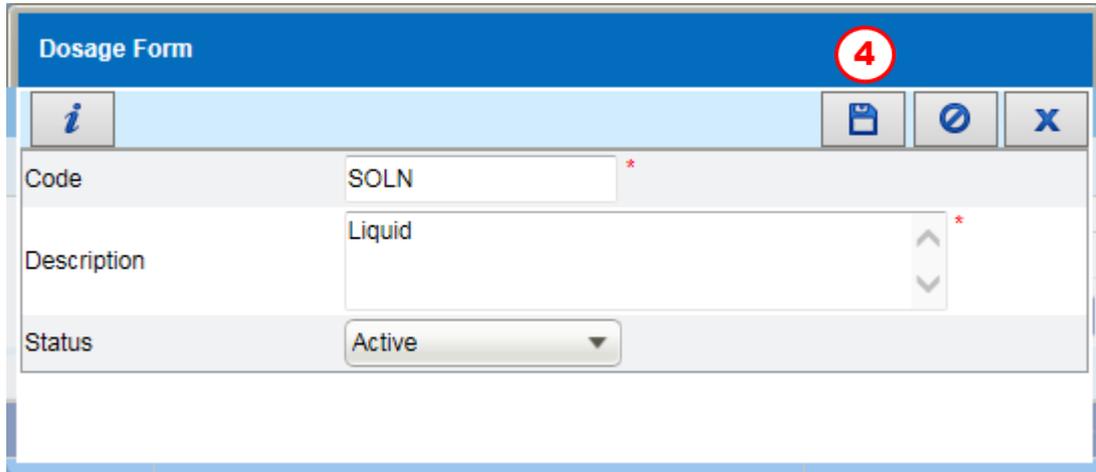


Figure 3.3.2-2 Add Dosage Form

**Note**

User is allowing to edit:

- **Code**
- **Description**
- **Status**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.3.2-3

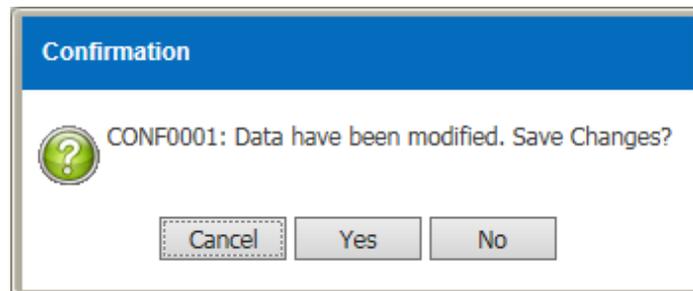
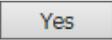
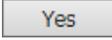


Figure 3.3.2-3 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.3.2-4

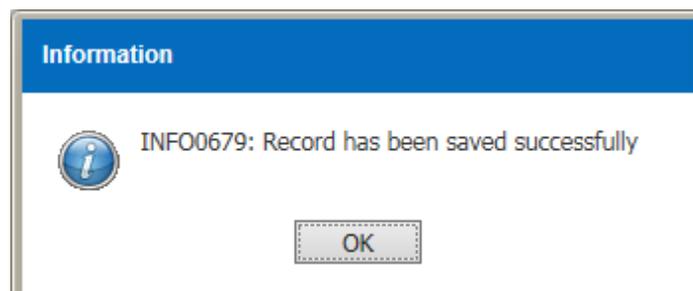
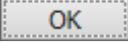


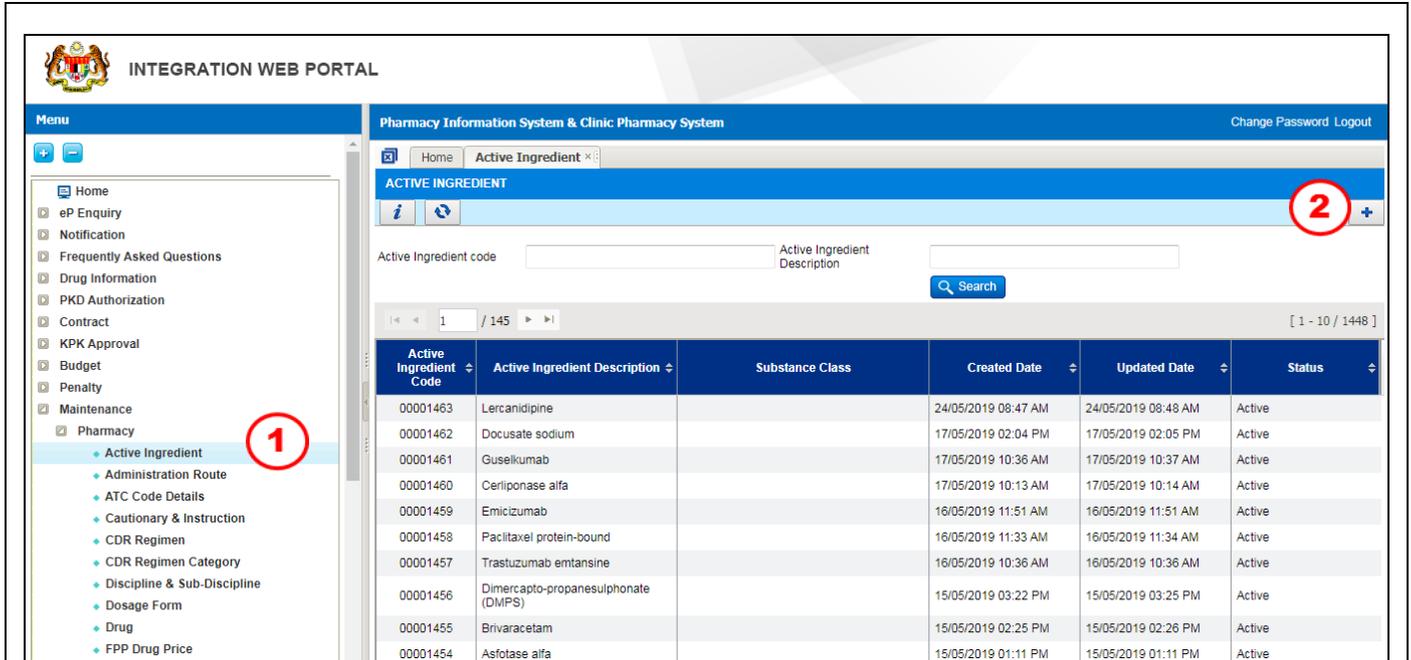
Figure 3.3.2-4 Information Message

- Click on the  button to confirmed the edited record

### 3.4 Active Ingredient

#### 3.4.1 Create New Active Ingredient

To Create New Active Ingredient records, perform the steps below:



| Active Ingredient Code | Active Ingredient Description       | Substance Class | Created Date        | Updated Date        | Status |
|------------------------|-------------------------------------|-----------------|---------------------|---------------------|--------|
| 00001463               | Lercanidipine                       |                 | 24/05/2019 08:47 AM | 24/05/2019 08:48 AM | Active |
| 00001462               | Docusate sodium                     |                 | 17/05/2019 02:04 PM | 17/05/2019 02:05 PM | Active |
| 00001461               | Guselkumab                          |                 | 17/05/2019 10:36 AM | 17/05/2019 10:37 AM | Active |
| 00001460               | Cerliponase alfa                    |                 | 17/05/2019 10:13 AM | 17/05/2019 10:14 AM | Active |
| 00001459               | Emicizumab                          |                 | 16/05/2019 11:51 AM | 16/05/2019 11:51 AM | Active |
| 00001458               | Paclitaxel protein-bound            |                 | 16/05/2019 11:33 AM | 16/05/2019 11:34 AM | Active |
| 00001457               | Trastuzumab emtansine               |                 | 16/05/2019 10:36 AM | 16/05/2019 10:36 AM | Active |
| 00001456               | Dimercapto-propanesulphonate (DMPS) |                 | 15/05/2019 03:22 PM | 15/05/2019 03:25 PM | Active |
| 00001455               | Brivaracetam                        |                 | 15/05/2019 02:25 PM | 15/05/2019 02:26 PM | Active |
| 00001454               | Asfotase alfa                       |                 | 15/05/2019 01:11 PM | 15/05/2019 01:11 PM | Active |

Figure 3.4.1-1 Active Ingredient Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Active Ingredient sub menu.

#### STEP 2

Click on the  button to create a new record and Active Ingredient screen will be displayed as Figure 3.4.1-2

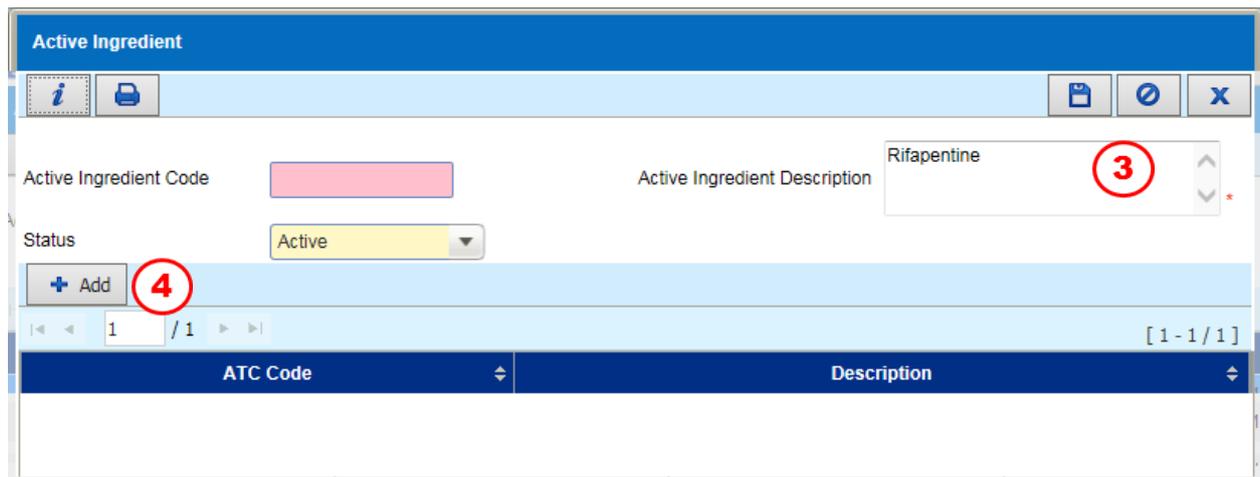


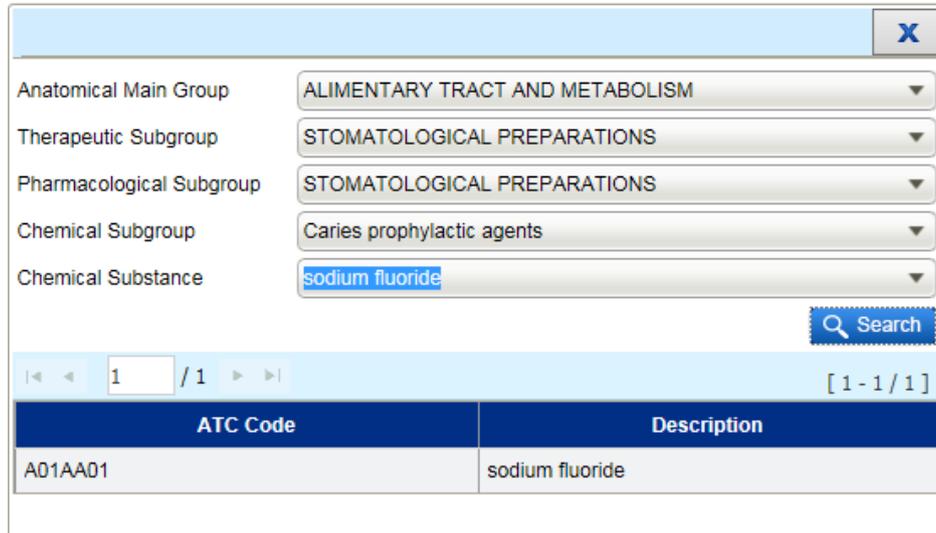
Figure 3.4.1-2 Add Active Ingredient

#### STEP 3

Enter **Active Ingredient Description**

**STEP 4**

Click on the  button and new window will be displayed as Figure 3.4.1-3

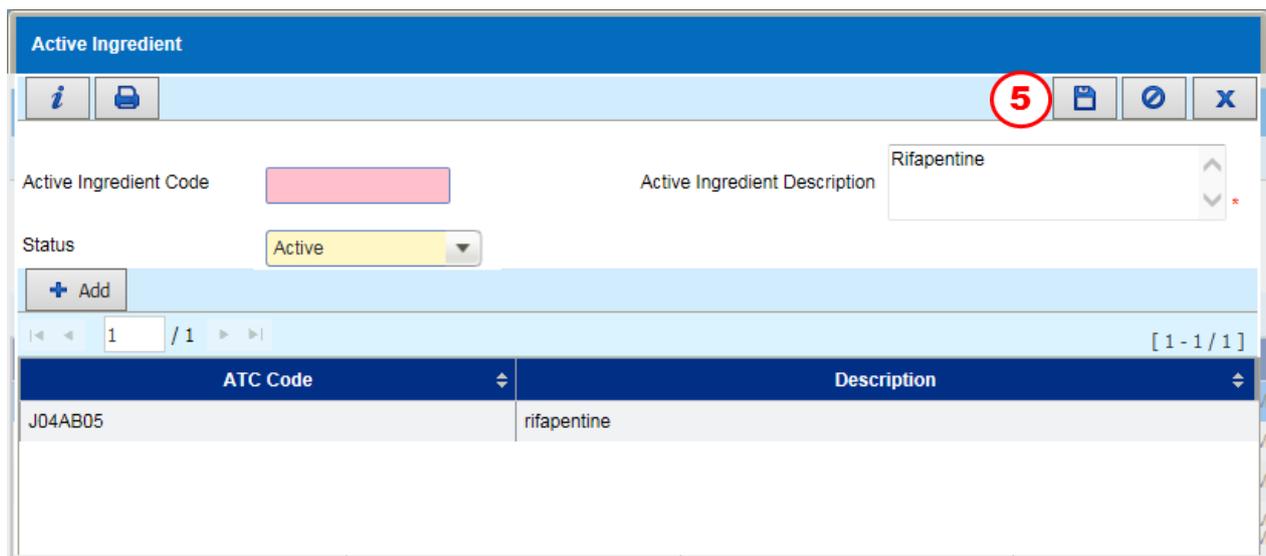


| ATC Code | Description     |
|----------|-----------------|
| A01AA01  | sodium fluoride |

**Figure 3.4.1-3 ATC Code**

**Note**

- User is allowed to enter partially or fully criteria for :
  - **Anatomical Main Group**
  - **Therapeutic Subgroup**
  - **Pharmacological Subgroup**
  - **Chemical Subgroup**
  - **Chemical Substance**
- Click on the  button and double click on the selected **ATC Code/Description**
- Selected data will have updated in the Active Ingredient screen as shown in Figure 3.4.1-4



| ATC Code | Description |
|----------|-------------|
| J04AB05  | rifapentine |

**Figure 3.4.1-4 Active Ingredient**

**Note**

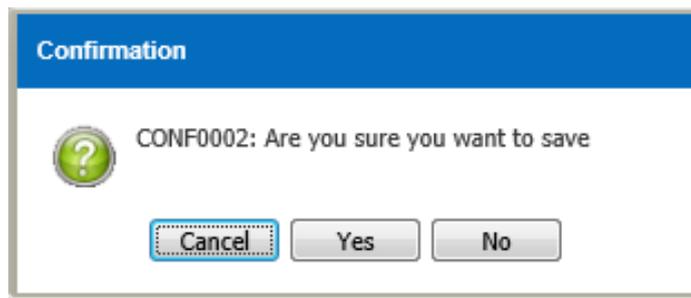
User can add more than 1 **ATC Code** by repeating **STEP 4**

**STEP 5**

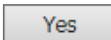
Click on the  button to save the record

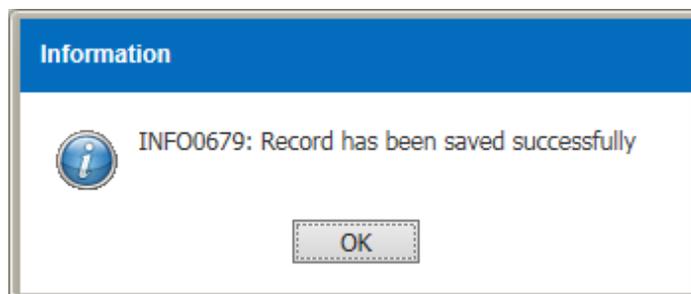
**Note**

- System will display a Confirmation Message as Figure 3.4.1-5



**Figure 3.4.1-5 Confirmation Message**

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.4.1-6



**Figure 3.4.1-6 Information Message**

- Click on the  button to confirmed the record and **Active Ingredient Code** will be generated for future reference as Figure 3.4.1-7

**Active Ingredient**

*i*      

Active Ingredient Code: 00001348      Active Ingredient Description: Rifapentine

Status: Active

 Add

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

| ATC Code | Description |
|----------|-------------|
| J04AB05  | rifapentine |

Figure 3.4.1-7 Active Ingredient

### 3.4.2 Modify Active Ingredient

To modify Active Ingredient records, perform the steps below:

INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Active Ingredient

ACTIVE INGREDIENT

Active Ingredient code:  Active Ingredient Description:

1 / 134 [ 1 - 10 / 1333 ]

| Active Ingredient Code | Active Ingredient Description | Created Date        | Updated Date        | Status |
|------------------------|-------------------------------|---------------------|---------------------|--------|
| 00001348               | Rifapentine                   | 04/08/2016 03:18 PM | 04/08/2016 03:18 PM | Active |
| 00001347               | Secukinumab                   | 29/07/2016 07:55 AM | 29/07/2016 07:56 AM | Active |
| 00001346               | Ixazomib                      | 29/07/2016 07:53 AM | 29/07/2016 07:54 AM | Active |
| 00001345               | Metformin + Linagliptin       | 21/07/2016 11:26 AM | 21/07/2016 11:28 AM | Active |
| 00000649               | Metformin + Vildagliptin      | 01/11/2013 10:36 AM | 21/07/2016 11:26 AM | Active |
| 00001344               | Dexlansoprazole               | 19/07/2016 02:16 PM | 19/07/2016 02:18 PM | Active |
| 00001343               | Octenidine                    | 13/07/2016 10:24 AM | 13/07/2016 10:26 AM | Active |
| 00001342               | Dimethicone                   | 13/07/2016 08:23 AM | 13/07/2016 08:23 AM | Active |
| 00001341               | Sulphur hexachloride          | 27/06/2016 09:21 AM | 27/06/2016 09:24 AM | Active |
| 00001340               | di-sodium hydrogen phosphate  | 16/06/2016 02:23 PM | 16/06/2016 02:23 PM | Active |

Figure 3.4.2-1 Active Ingredient Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Active Ingredient sub menu.

#### STEP 2

Click on the selected record

Active Ingredient

Active Ingredient Code: 00000649 Active Ingredient Description: Metformin + Vildagliptin

Status: Active

+ Add

1 / 1 [ 1 - 1 / 1 ]

| ATC Code | Description                |
|----------|----------------------------|
| A10BD08  | metformin and vildagliptin |

Figure 3.4.2-2 Active Ingredient Form

#### STEP 3

Click on the  button to edit the record

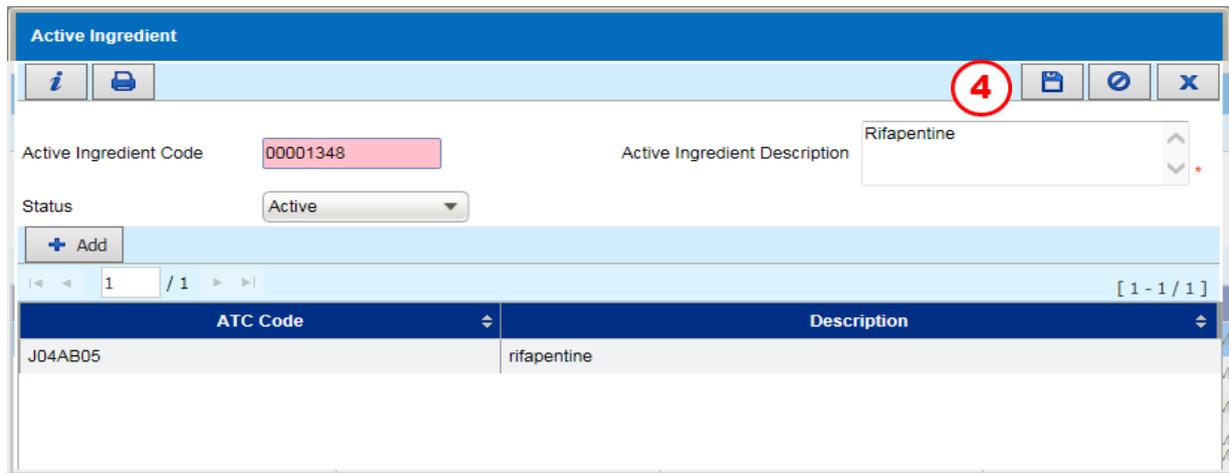


Figure 3.4.2-3 Active Indgredient Form

**Note**

User is allowing to edit:

- **Status**
- **Active Ingredient Description**
- **Add ATC Code**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.4.2-4

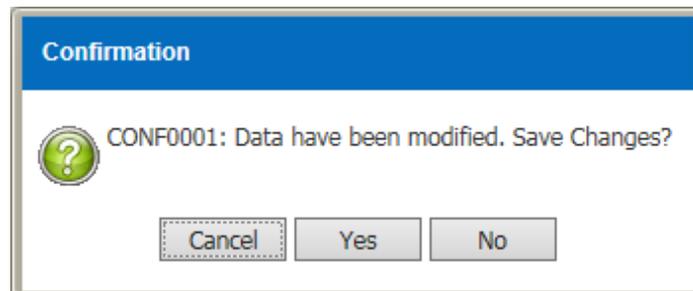
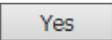
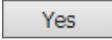


Figure 3.4.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.4.2-5

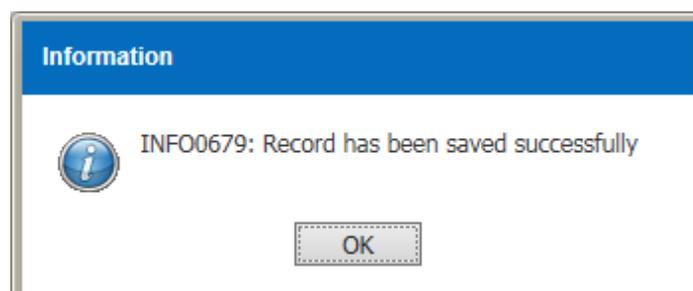


Figure 3.4.2-5 Information Message

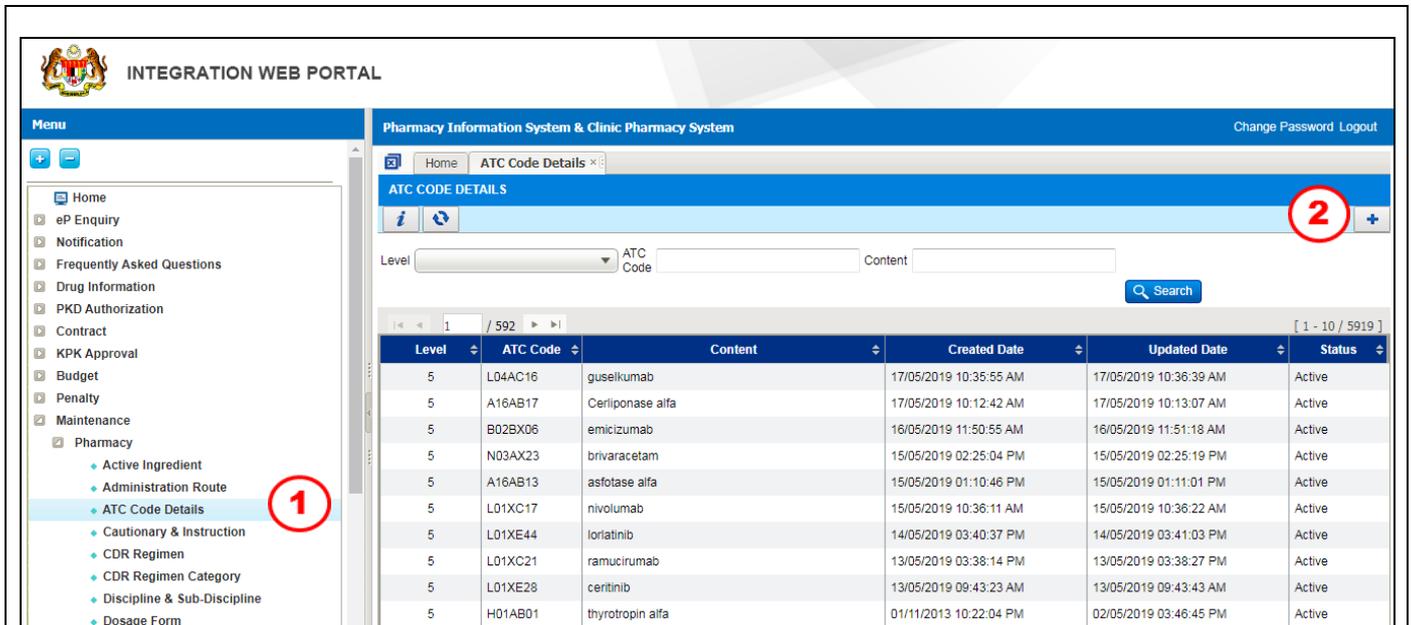


- Click on the  button to confirmed the edited record

### 3.5 ATC Code Details

#### 3.5.1 Create New ATC Code Details

To Create New ATC Code Details records, perform the steps below:



| Level | ATC Code | Content          | Created Date           | Updated Date           | Status |
|-------|----------|------------------|------------------------|------------------------|--------|
| 5     | L04AC16  | guselkumab       | 17/05/2019 10:35:55 AM | 17/05/2019 10:36:39 AM | Active |
| 5     | A16AB17  | Cerliponase alfa | 17/05/2019 10:12:42 AM | 17/05/2019 10:13:07 AM | Active |
| 5     | B02BX06  | emicizumab       | 16/05/2019 11:50:55 AM | 16/05/2019 11:51:18 AM | Active |
| 5     | N03AX23  | brivaracetam     | 15/05/2019 02:25:04 PM | 15/05/2019 02:25:19 PM | Active |
| 5     | A16AB13  | asfotase alfa    | 15/05/2019 01:10:46 PM | 15/05/2019 01:11:01 PM | Active |
| 5     | L01XC17  | nivolumab        | 15/05/2019 10:36:11 AM | 15/05/2019 10:36:22 AM | Active |
| 5     | L01XE44  | lorlatinib       | 14/05/2019 03:40:37 PM | 14/05/2019 03:41:03 PM | Active |
| 5     | L01XC21  | ramucirumab      | 13/05/2019 03:38:14 PM | 13/05/2019 03:38:27 PM | Active |
| 5     | L01XE28  | ceritinib        | 13/05/2019 09:43:23 AM | 13/05/2019 09:43:43 AM | Active |
| 5     | H01AB01  | thyrotropin alfa | 01/11/2013 10:22:04 PM | 02/05/2019 03:46:45 PM | Active |

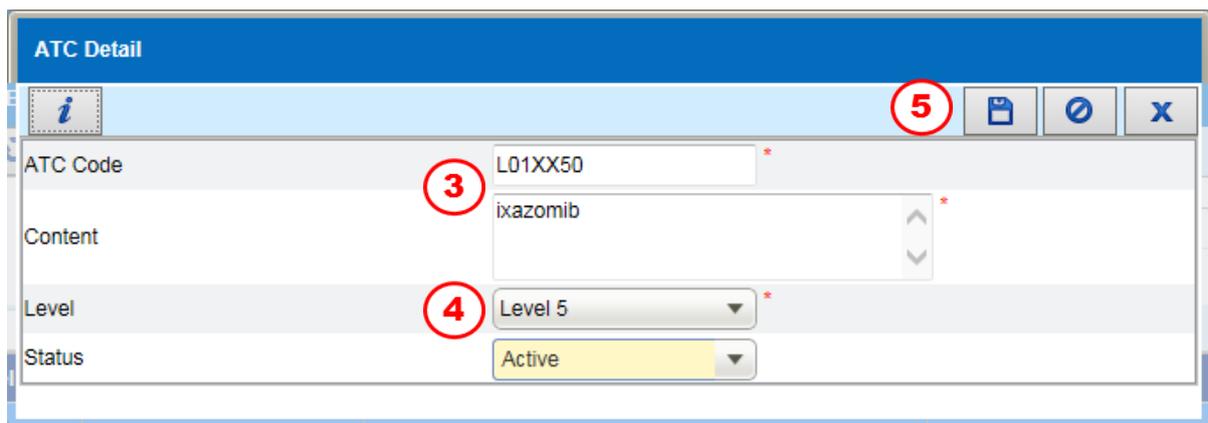
Figure 3.5.1-1 ATC Code Details Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on ATC Code Details sub menu.

#### STEP 2

Click on the  button to create a new record and ATC Detail screen will be displayed as Figure 3.5.1-2



ATC Code: L01XX50

Content: ixazomib

Level: Level 5

Status: Active

Figure 3.5.1-2 Add ATC Code Details

#### STEP 3

Enter **ATC Code** and **Content**

#### STEP 4

Select **Level** from drop down box:

- **Level 1**
- **Level 2**
- **Level 3**
- **Level 4**

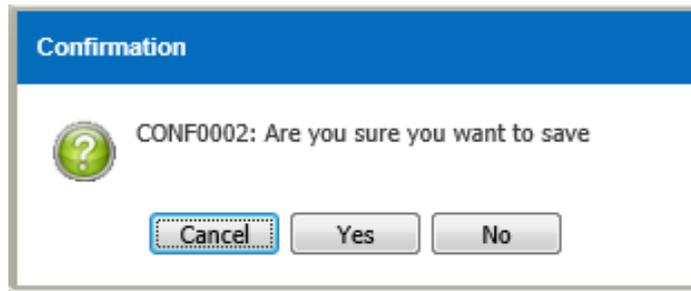
- **Level 5**

**STEP 5**

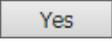
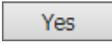
Click on the  button to save the record

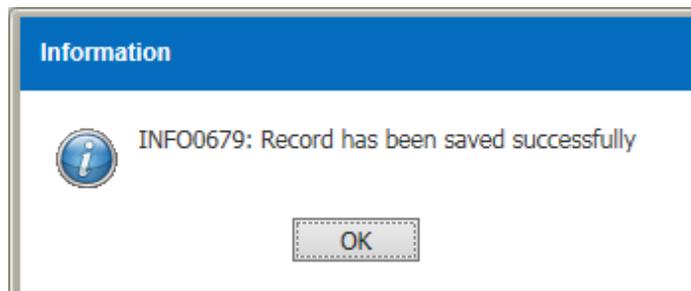
**Note**

- System will display a Confirmation Message as Figure 3.5.1-3

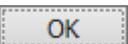


**Figure 3.5.1-3 Confirmation Message**

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.5.1-4

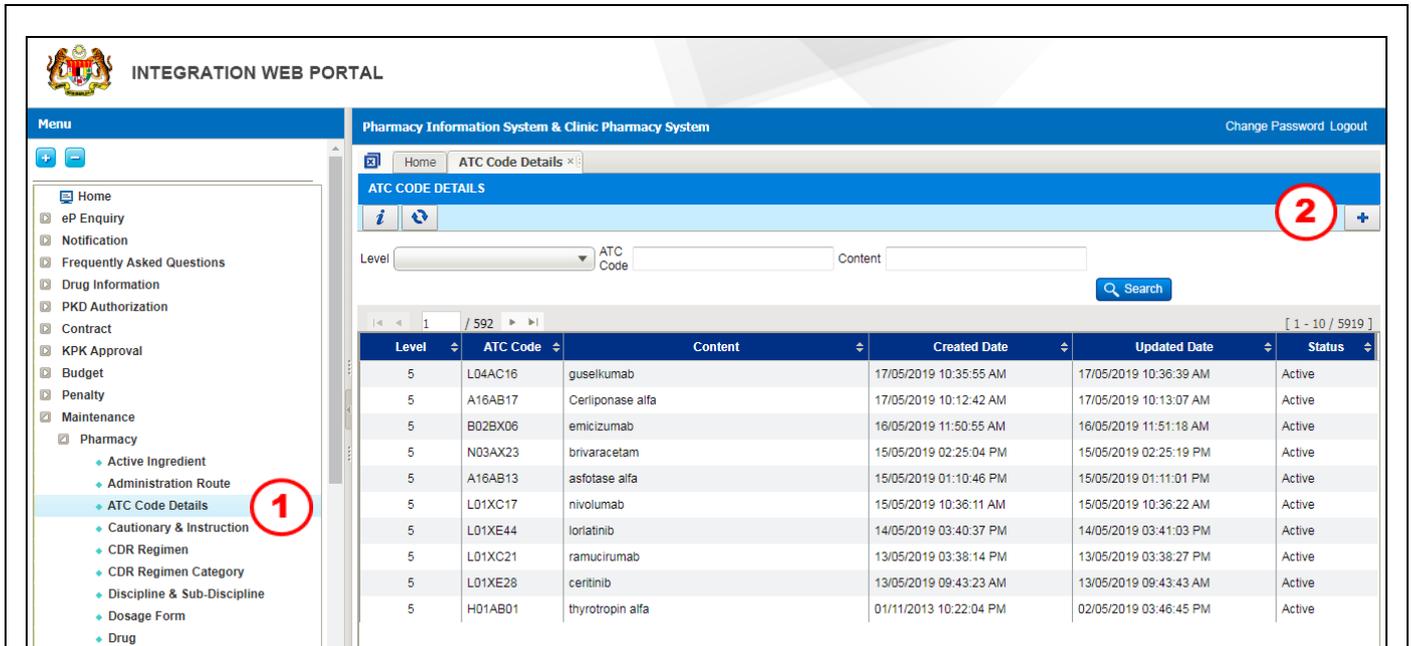


**Figure 3.5.1-4 Information Message**

Click on the  button to confirmed the record

### 3.5.2 Modify ATC Code Detail

To modify ATC Code Details records, perform the steps below:



The screenshot displays the 'INTEGRATION WEB PORTAL' interface. On the left is a 'Menu' sidebar with 'ATC Code Details' highlighted under the 'Pharmacy' section, marked with a red circle '1'. The main area is titled 'Pharmacy Information System & Clinic Pharmacy System' and shows 'ATC CODE DETAILS' with a search bar and a table of records. A red circle '2' is placed over the 'ATC CODE DETAILS' header. The table lists various ATC codes and their details.

| Level | ATC Code | Content          | Created Date           | Updated Date           | Status |
|-------|----------|------------------|------------------------|------------------------|--------|
| 5     | L04AC16  | guselkumab       | 17/05/2019 10:35:55 AM | 17/05/2019 10:36:39 AM | Active |
| 5     | A16AB17  | Cerliponase alfa | 17/05/2019 10:12:42 AM | 17/05/2019 10:13:07 AM | Active |
| 5     | B02BX06  | emicizumab       | 16/05/2019 11:50:55 AM | 16/05/2019 11:51:18 AM | Active |
| 5     | N03AX23  | brivaracetam     | 15/05/2019 02:25:04 PM | 15/05/2019 02:25:19 PM | Active |
| 5     | A16AB13  | asfotase alfa    | 15/05/2019 01:10:46 PM | 15/05/2019 01:11:01 PM | Active |
| 5     | L01XC17  | nivolumab        | 15/05/2019 10:36:11 AM | 15/05/2019 10:36:22 AM | Active |
| 5     | L01XE44  | lorlatinib       | 14/05/2019 03:40:37 PM | 14/05/2019 03:41:03 PM | Active |
| 5     | L01XC21  | ramucirumab      | 13/05/2019 03:38:14 PM | 13/05/2019 03:38:27 PM | Active |
| 5     | L01XE28  | ceritinib        | 13/05/2019 09:43:23 AM | 13/05/2019 09:43:43 AM | Active |
| 5     | H01AB01  | thyrotropin alfa | 01/11/2013 10:22:04 PM | 02/05/2019 03:46:45 PM | Active |

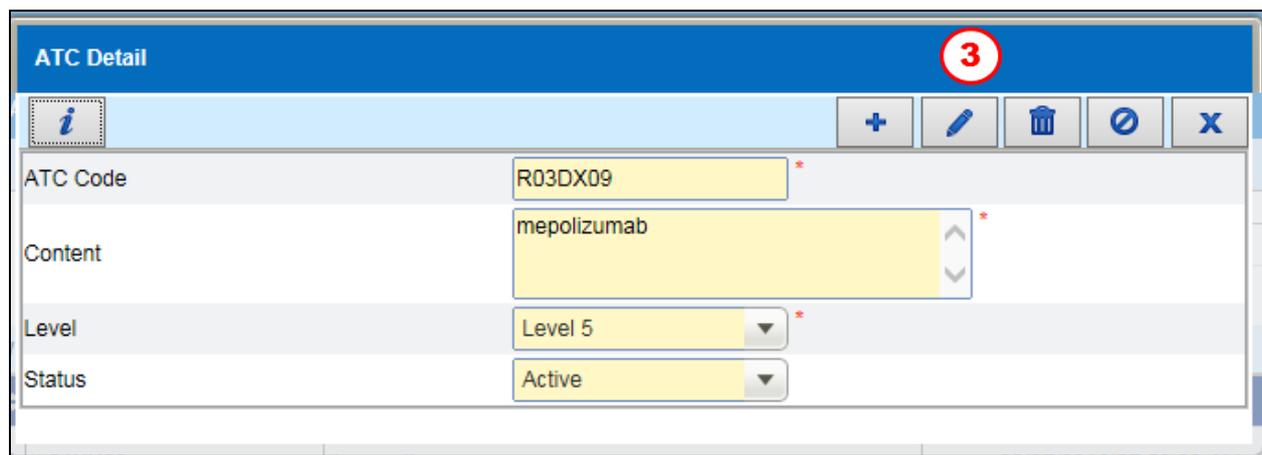
Figure 3.5.2-1 ATC Code Details Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on ATC Code Detail sub menu.

#### STEP 2

Click on the selected record

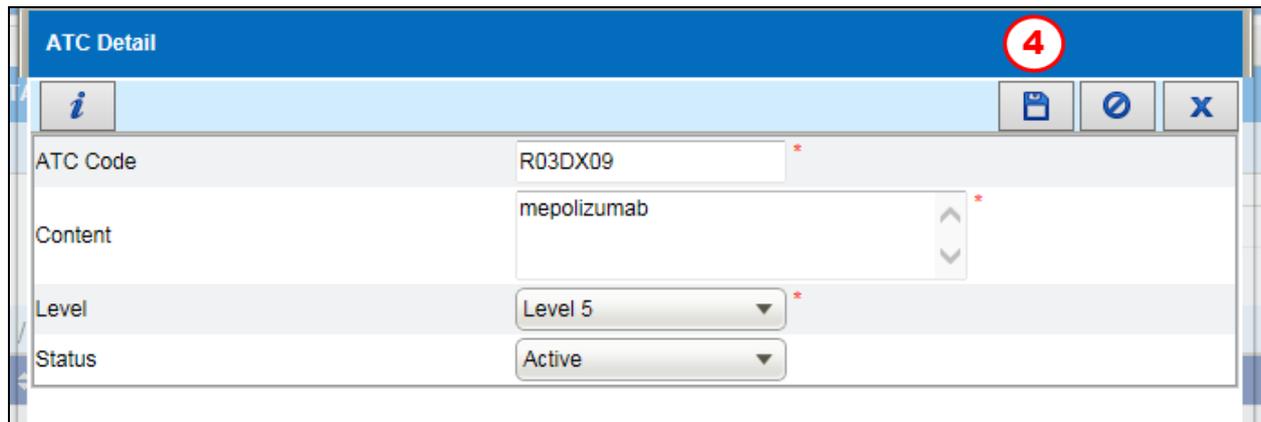


The screenshot shows the 'ATC Detail' edit form. It includes a header with a red circle '3' and a toolbar with icons for add, edit, delete, and refresh. The form fields are: ATC Code (R03DX09), Content (mepolizumab), Level (Level 5), and Status (Active).

Figure 3.5.2-2 Edit ATC Code Details

#### STEP 3

Click on the  button to edit the record



The screenshot shows a window titled "ATC Detail" with a red circle containing the number "4" in the top right corner. The window has a toolbar with an information icon, a save icon, a refresh icon, and a close icon. The form contains the following fields:

|          |               |
|----------|---------------|
| ATC Code | R03DX09 *     |
| Content  | mepolizumab * |
| Level    | Level 5 *     |
| Status   | Active        |

Figure 3.5.2-3 Edit ATC Code Details

**Note**

User is allowing to edit:

- **ATC Code**
- **Content**
- **Level**
- **Status**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.5.2-4

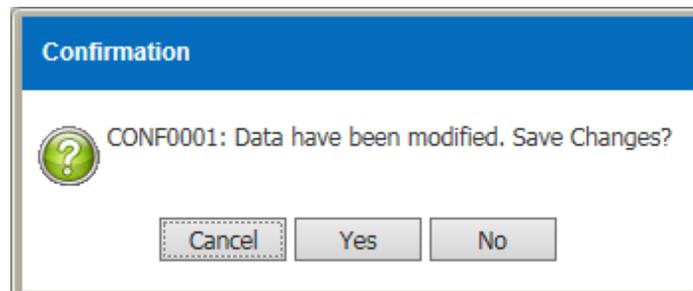
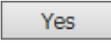
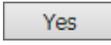


Figure 3.5.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.5.2-5

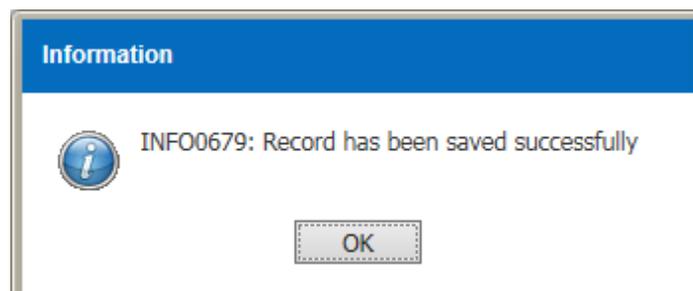


Figure 3.5.2-5 Information Message



- Click on the  button to confirmed the edited record

### 3.6 Cautionary and Instruction

#### 3.6.1 Create New Cautionary and Instruction

To Create New Cautionary and Instruction records, perform the steps below:

| Label Code | Type                | Description in English                          | Description in Local Language                          | Created Date           | Updated Date           | Status   |
|------------|---------------------|---|--|------------------------|------------------------|----------|
| C3         | Cautionary          | Avoid milk, antacid and iron preparation        | Elakkan susu, antasid dan sediaan mengandungi zat besi | 29/10/2013 07:42:34 PM | 24/08/2019 09:32:24 AM | Active   |
| 6D         | Special Instruction | Day 1: Take 125 mg cap/tab once a day           | Hari 1: Ambil 1 biji 125mg cap/tab sekali sehari       | 10/04/2019 08:41:06 AM | 10/04/2019 08:47:42 AM | Active   |
| P5         | Cautionary          | Day2-3: Take 80mg cap/tab once a day            | Hari 2-3: Ambil 1 biji 80mg cap/tab sekali sehari      | 10/04/2019 08:42:10 AM | 10/04/2019 08:47:19 AM | Active   |
| H5         | Cautionary          | Do not swallow this medicine immediately        | Kemam ubat sebelum telan                               | 29/10/2013 07:42:34 PM | 12/03/2019 08:21:52 AM | Inactive |
| K6         | Cautionary          | May cause drowsiness. Do not take with antacids | Menyebabkan mengantuk. Elak makan ubat bersama antasid | 29/10/2013 07:42:34 PM | 02/11/2018 10:39:57 AM | Active   |
| 1V         | Special Instruction | Dissolve in 1 glass / 250ml water               | Larutkan dim 1 gelas / 250ml air                       | 29/10/2013 07:42:34 PM | 04/10/2018 11:51:45 AM | Inactive |
| 2B         | Special Instruction | Dissolve in 1 glass / 250ml water and drink     | Larutkan dalam 1 gelas / 250ml air dan minum           | 29/10/2013 07:42:34 PM | 04/10/2018 11:51:27 AM | Active   |

Figure 3.6.1-1 Cautionary And Instruction Listing Page

#### STEP 1

Go to Maintenance menu and click on Pharmacy and Cautionary & Instruction sub menu.

#### STEP 2

Click on the  button to create a new record and Cautionary And Instruction screen will be displayed as Figure 3.6.1-1

**Cautionary And Instruction**

Label ID: **3** A1 \*

Type: Cautionary \*

Description in English: Use as directed by pharmacist \*

Description in Local Language: Guna ubat seperti yang diarahkan oleh ahli farmasi \*

Status: Active

Figure 3.6.1-2 Add Cautionary And Instruction

#### STEP 3

Enter **Label ID**

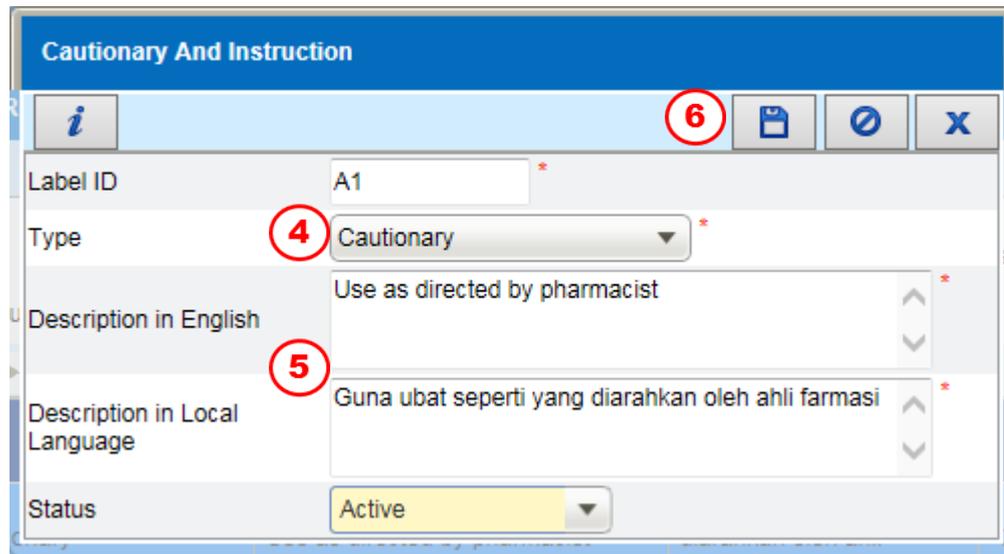


Figure 3.6.1-3 Add Cautionary And Instruction

**STEP 4**

Select **Type** from drop down box:

- **Administrative Instruction**
- **Cautionary**
- **Special Instruction**

**STEP 5**

Enter **Description in English** and **Description in Local Language**

**STEP 6**

Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.6.1-4

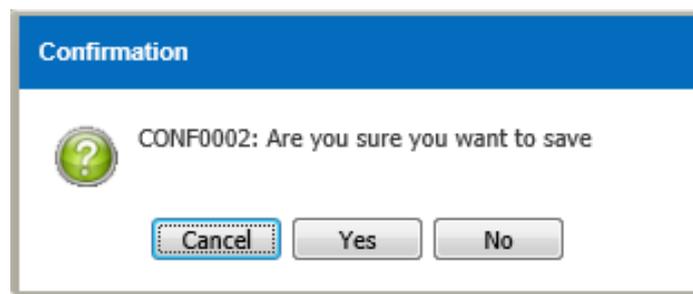
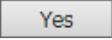
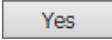
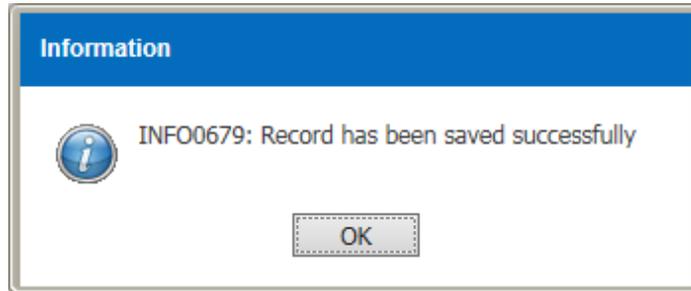


Figure 3.6.1-4 Confirmation Message

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.6.1-5



**Figure 3.6.1-5 Information Message**

- Click on the  button to confirmed the record

### 3.6.2 Modify Cautionary and Instruction

To modify Cautionary and Instruction records, perform the step below:

| Label Code | Type                | Description in English                          | Description in Local Language                          | Created Date           | Updated Date           | Status   |
|------------|---------------------|---|--|------------------------|------------------------|----------|
| C3         | Cautionary          | Avoid milk, antacid and iron preparation        | Elakkan susu, antasid dan sediaan mengandungi zat besi | 29/10/2013 07:42:34 PM | 24/06/2019 09:32:24 AM | Active   |
| 6D         | Special Instruction | Day 1: Take 125 mg cap/tab once a day           | Hari 1: Ambil 1 biji 125mg cap/tab sekali sehari       | 10/04/2019 08:41:06 AM | 10/04/2019 08:47:42 AM | Active   |
| P5         | Cautionary          | Day2-3: Take 80mg cap/tab once a day            | Hari 2-3: Ambil 1 biji 80mg cap/tab sekali sehari      | 10/04/2019 08:42:10 AM | 10/04/2019 08:47:19 AM | Active   |
| H5         | Cautionary          | Do not swallow this medicine immediately        | Kemam ubat sebelum telan                               | 29/10/2013 08:42:10 AM | 12/03/2019 08:21:52 AM | Inactive |
| K6         | Cautionary          | May cause drowsiness. Do not take with antacids | Menyebabkan mengantuk. Elak makan ubat bersama antasid | 29/10/2013 07:42:34 PM | 02/11/2018 10:39:57 AM | Active   |
| 1V         | Special Instruction | Dissolve in 1 glass / 250ml water               | Larutkan dim 1 gelas / 250ml air                       | 29/10/2013 07:42:34 PM | 04/10/2018 11:51:45 AM | Inactive |
| 2B         | Special Instruction | Dissolve in 1 glass / 250ml water and drink     | Larutkan dalam 1 gelas / 250ml air dan minum           | 29/10/2013 07:42:34 PM | 04/10/2018 11:51:27 AM | Active   |

Figure 3.6.2-1 Cautionary And Instruction Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Cautionary and Instruction sub menu.

#### STEP 2

Click on the selected record

Figure 3.6.2-2 Add Cautionary And Instruction

#### STEP 3

Click on the  button to edit the record

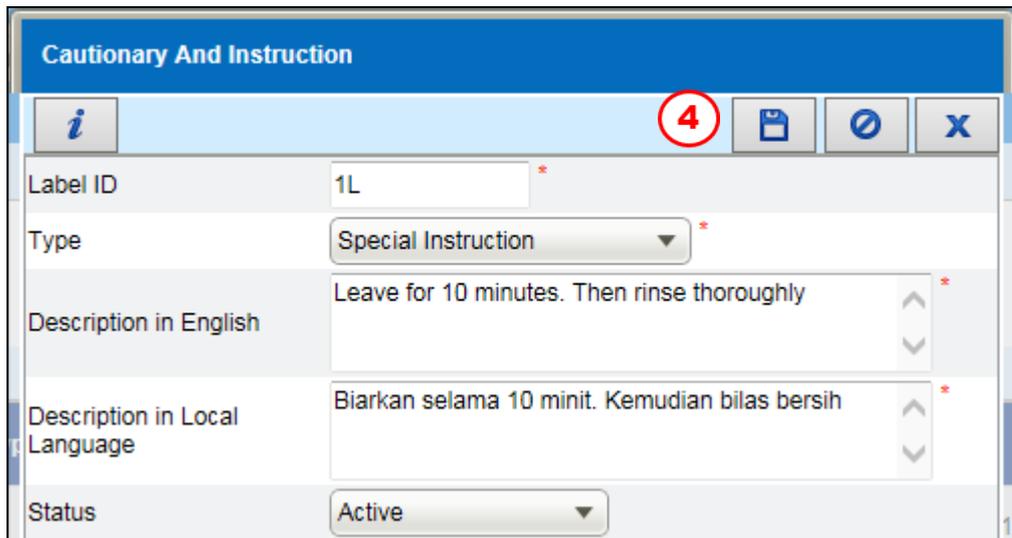


Figure 3.6.2-3 Add Cautionary And Instruction

**Note**

User is allowing to edit:

- **Label ID**
- **Type**
- **Description in English and Description in Local Language**
- **Status**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.6.2-4

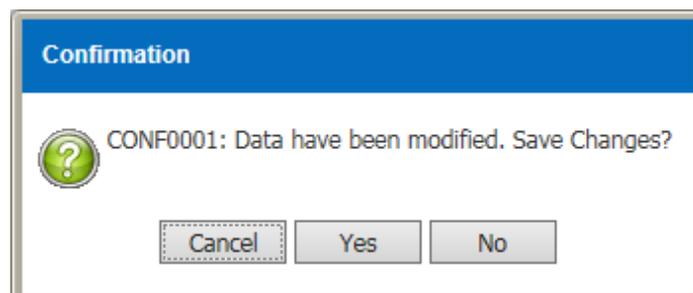
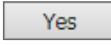
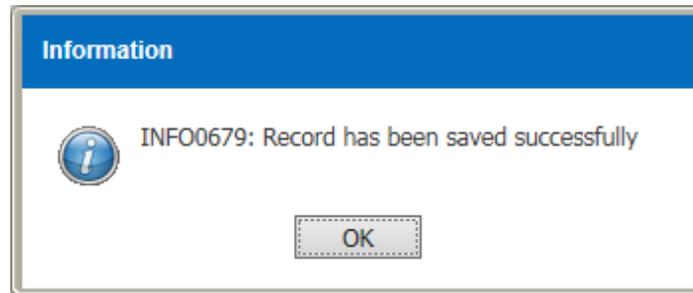


Figure 3.6.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.6.2-5



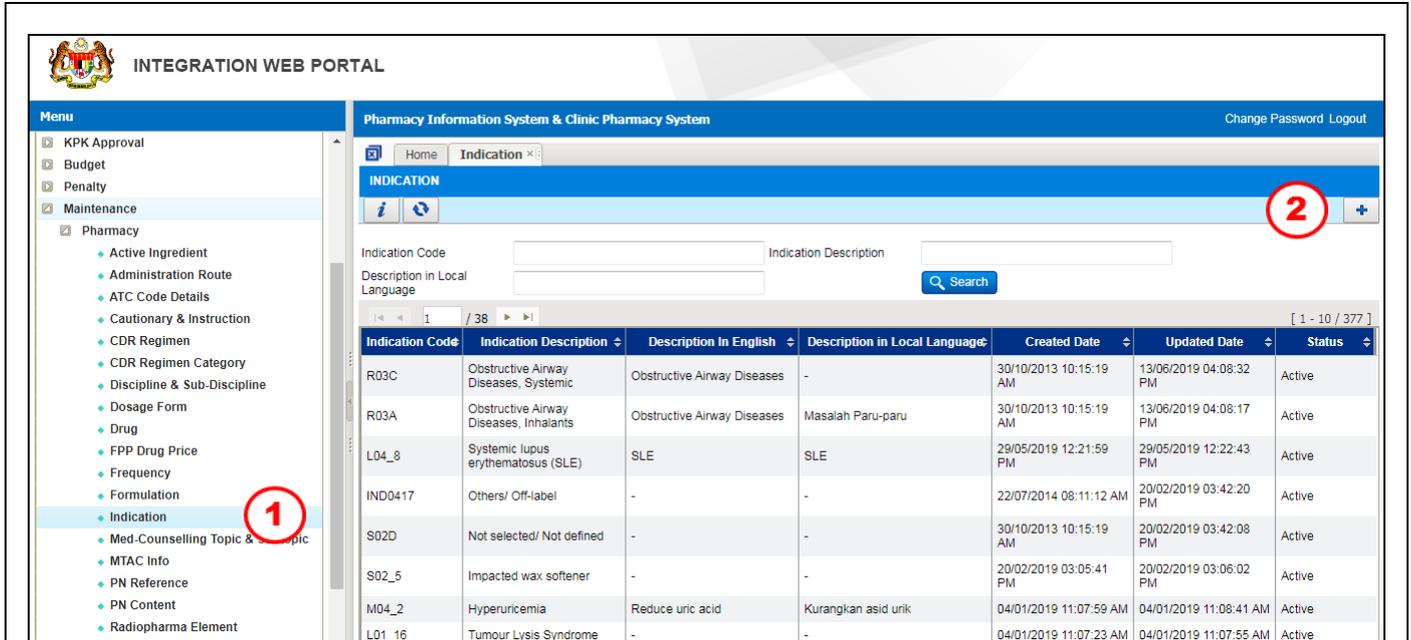
**Figure 3.6.2-5 Information Message**

- Click on the  button to confirmed the edited record

### 3.7 Indication

#### 3.7.1 Create New Indication

To Create New Indication records, perform the steps below:



| Indication Code | Indication Description                 | Description In English      | Description in Local Language | Created Date           | Updated Date           | Status |
|-----------------|--|-----------------------------|-------------------------------|------------------------|------------------------|--------|
| R03C            | Obstructive Airway Diseases, Systemic  | Obstructive Airway Diseases | -                             | 30/10/2013 10:15:19 AM | 13/06/2019 04:08:32 PM | Active |
| R03A            | Obstructive Airway Diseases, Inhalants | Obstructive Airway Diseases | Masalah Paru-paru             | 30/10/2013 10:15:19 AM | 13/06/2019 04:08:17 PM | Active |
| L04_8           | Systemic lupus erythematosus (SLE)     | SLE                         | SLE                           | 29/05/2019 12:21:59 PM | 29/05/2019 12:22:43 PM | Active |
| IND0417         | Others/ Off-label                      | -                           | -                             | 22/07/2014 08:11:12 AM | 20/02/2019 03:42:20 PM | Active |
| S02D            | Not selected/ Not defined              | -                           | -                             | 30/10/2013 10:15:19 AM | 20/02/2019 03:42:08 PM | Active |
| S02_5           | Impacted wax softener                  | -                           | -                             | 20/02/2019 03:05:41 PM | 20/02/2019 03:06:02 PM | Active |
| M04_2           | Hyperuricemia                          | Reduce uric acid            | Kurangkan asid urik           | 04/01/2019 11:07:59 AM | 04/01/2019 11:08:41 AM | Active |
| L01_16          | Tumour Lysis Syndrome                  | -                           | -                             | 04/01/2019 11:07:23 AM | 04/01/2019 11:07:55 AM | Active |

Figure 3.7.1-1 Indication Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Indication sub menu.

#### STEP 2

Click on the  button to create a new record and Indication screen will be displayed as Figure 3.7.1-2

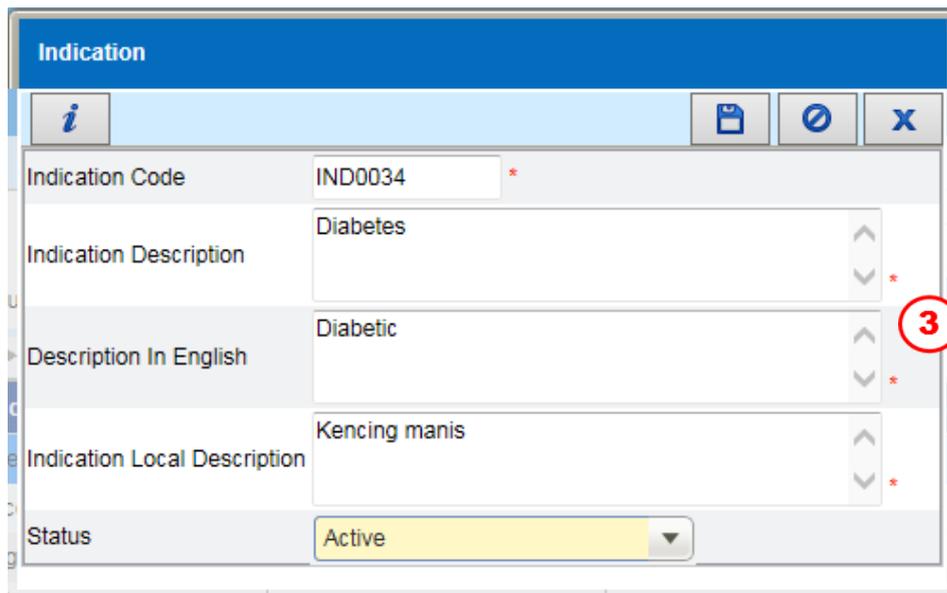


Figure 3.7.1-2 Indication

#### STEP 3

Enter **Indication Code**, **Indication Description**, **Description in English** and **Indication Local Description**

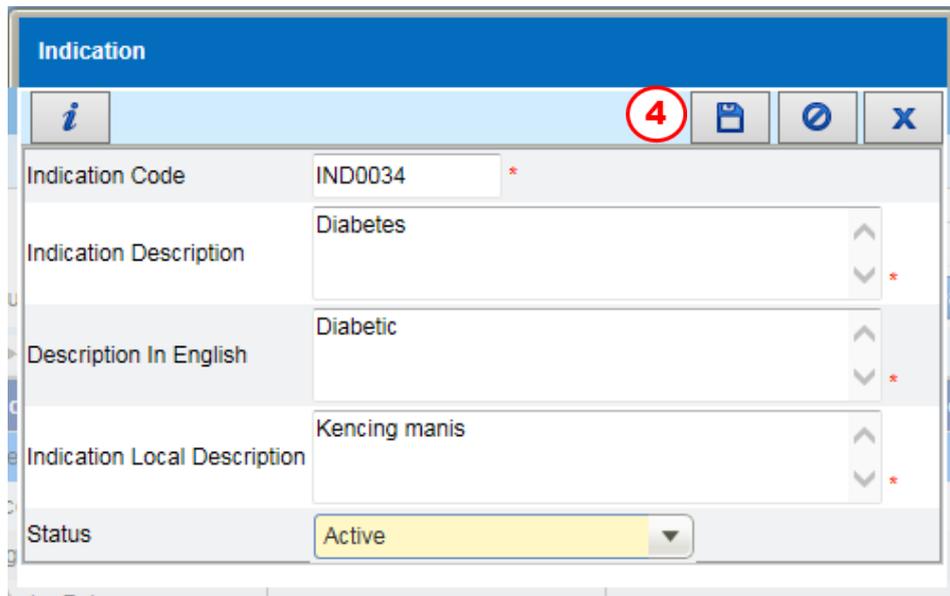


Figure 3.7.1-3 Indication

**STEP 4**

Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.7.1-4

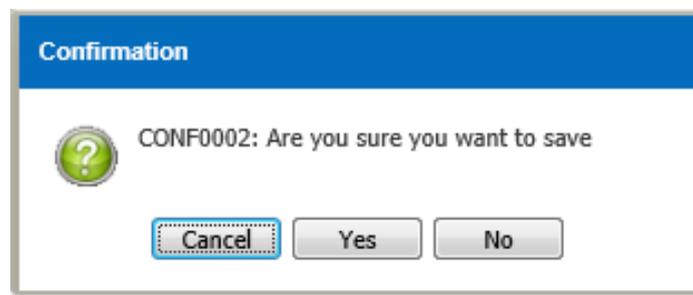
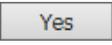
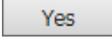


Figure 3.7.1-4 Confirmation Message

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.7.1-5

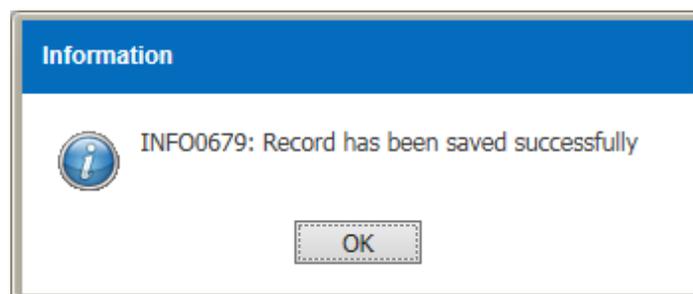


Figure 3.7.1-5 Information Message

- Click on the  button to confirmed the record

### 3.7.2 Modify Indication

To modify Indication records, perform the steps below:

**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Indication

INDICATION

Indication Code: [ ] Indication Description: [ ] [ Search ]

| Indication Code | Indication Description                 | Description In English      | Description in Local Language | Created Date           | Updated Date           | Status |
|-----------------|--|-----------------------------|-------------------------------|------------------------|------------------------|--------|
| R03C            | Obstructive Airway Diseases, Systemic  | Obstructive Airway Diseases | -                             | 30/10/2013 10:15:19 AM | 13/06/2019 04:08:32 PM | Active |
| R03A            | Obstructive Airway Diseases, Inhalants | Obstructive Airway Diseases | Masalah Paru-paru             | 30/10/2013 10:15:19 AM | 13/06/2019 04:08:17 PM | Active |
| L04_8           | Systemic lupus erythematosus (SLE)     | SLE                         | SLE                           | 29/05/2019 12:21:59 PM | 29/05/2019 12:22:43 PM | Active |
| IND0417         | Others/ Off-label                      | -                           | -                             | 22/07/2014 08:11:12 AM | 20/02/2019 03:42:20 PM | Active |
| S02D            | Not selected/ Not defined              | -                           | -                             | 30/10/2013 10:15:19 AM | 20/02/2019 03:42:08 PM | Active |
| S02_5           | Impacted wax softener                  | -                           | -                             | 20/02/2019 03:05:41 PM | 20/02/2019 03:06:02 PM | Active |
| M04_2           | Hyperuricemia                          | Reduce uric acid            | Kurangkan asid urik           | 04/01/2019 11:07:59 AM | 04/01/2019 11:08:41 AM | Active |
| L01_16          | Tumour Lysis Syndrome                  | -                           | -                             | 04/01/2019 11:07:23 AM | 04/01/2019 11:07:55 AM | Active |

Figure 3.7.2-1 Indication Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on Indication sub menu.

#### STEP 2

Click on the selected record

**Indication**

[ Info ] [ + ] [ Edit ] [ Delete ] [ Refresh ] [ Close ]

Indication Code: R06\_3 \*

Indication Description: Allergic dermatoses \*

Description In English: Allergic (skin) \*

Indication Local Description: Alahan (kulit) \*

Status: Active

Figure 3.7.2-2 Edit Indication Listing Page

#### STEP 3

Click on the button to edit the record

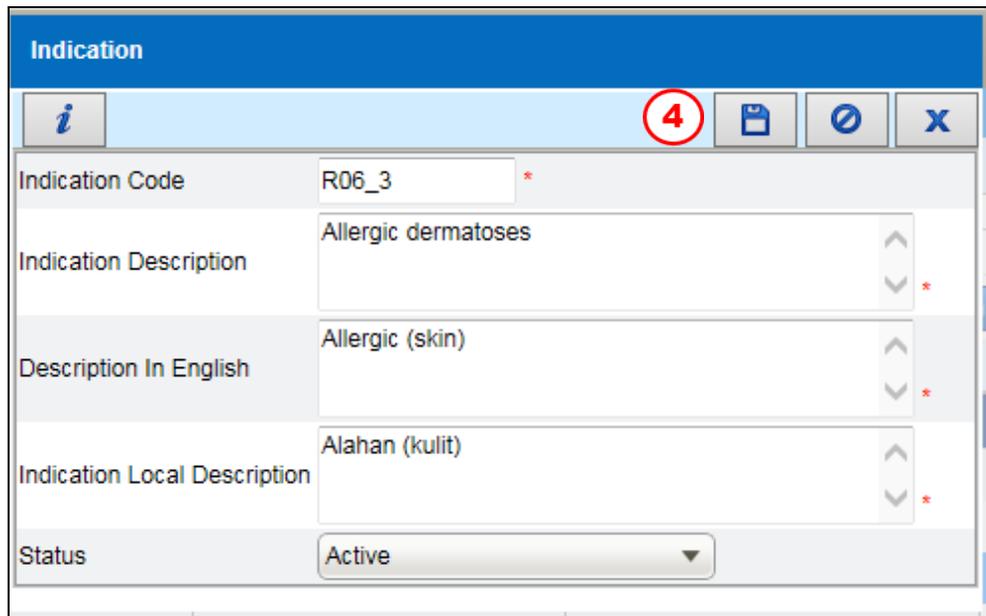


Figure 3.7.2-3 Edit Indication Listing Page

**Note**

User is allowing to edit:

- **Indication Code**
- **Indication Description**
- **Description in English**
- **Indication Local Description**
- **Status**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.7.2-4

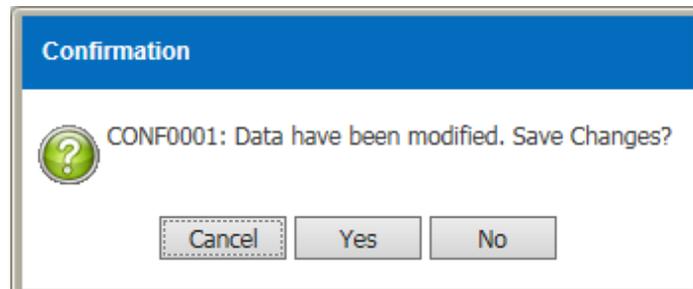
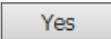
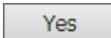
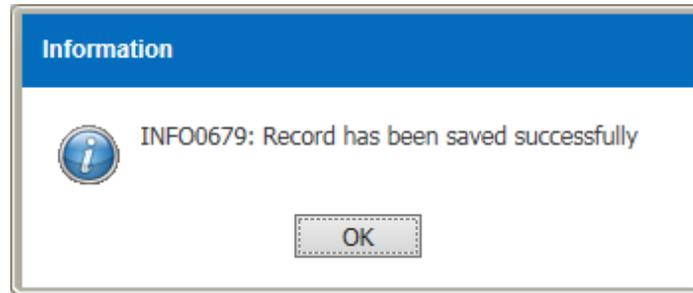


Figure 3.7.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.7.2-5



**Figure 3.7.2-5 Information Message**

- Click on the  button to confirmed the edited record

### 3.8 Drug

To create and modify Drug records, perform the steps below:

| Drug Code         | Drug Name   | Active Ingredient | Drug Category | Created Date           | Updated Date           | Status |
|-------------------|---|-------------------|---------------|------------------------|------------------------|--------|
| B01AD01000P4001XX | Streptokinase 1,500,000 IU Injection              | Streptokinase     | A*            | 02/11/2013 03:11:13 PM | 04/07/2019 10:21:01 AM | Active |
| G02CB01196T1003XX | Bromocriptine Mesilate 10mg Tablet                | Bromocriptine     | A/KK          | 02/11/2013 03:11:13 PM | 04/07/2019 10:20:16 AM | Active |
| G02CB01196T1002XX | Bromocriptine Mesilate 5mg Tablet                 | Bromocriptine     | A/KK          | 02/11/2013 03:11:13 PM | 04/07/2019 10:19:58 AM | Active |
| G02CB01196T1001XX | Bromocriptine Mesilate 2.5mg Tablet               | Bromocriptine     | A/KK          | 02/11/2013 03:11:13 PM | 04/07/2019 10:19:39 AM | Active |
| L04AC05000P3001   | Ustekinumab 90mg/ml Injection (Prefilled Syringe) | Ustekinumab       | A*            | 03/07/2019 11:09:13 AM | 03/07/2019 11:15:51 AM | Active |
| GLN0200084        | Chlorhexidine 1 in 1000 (0.1%) in Aqueous/Water   | Chlorhexidine     | C             | 22/06/2015 03:34:18 PM | 28/06/2019 03:56:29 PM | Active |

Figure 3.8-1 Drug Listing Page

**STEP 1**

Go to “Maintenance” menu and click on pharmacy

**STEP 2**

Click on “Drug Master”

**STEP 3**

Click on the button to Create New Drug Master

Figure 3.8-2 Drug

**STEP 4**

Insert Drug Code

**STEP 5**

Choose drug category

**STEP 6**

Select Active Ingredient

**STEP 7**

Insert Drug Name

**STEP 8**

Insert Quantity value and select drug form

**STEP 9**

Insert SKU and select drug form

**STEP 10**

Select Administration Instruction, Special Instruction and Cautionary if need to fill up for particular drug  
Tick check box if there is any indication for that particular drug



Figure 3.8-3 Drug Route

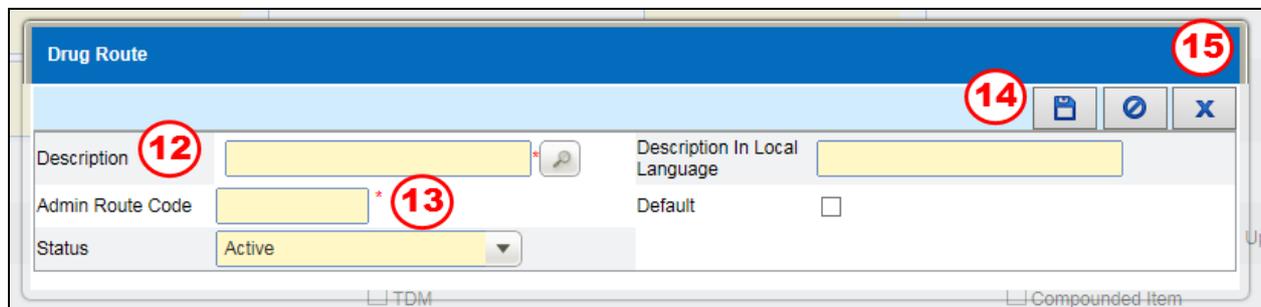
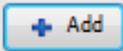


Figure 3.8-4 Drug Route

**STEP 11**

Click on the  button to Add Route for drug

**STEP 12**

Select Description

**STEP 13**

Insert Code

**STEP 14**

Click on the  button to save the Drug Route record

### STEP 15

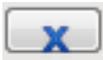
Click on the  button to close record



Figure 3.8-5 Drug Frequency

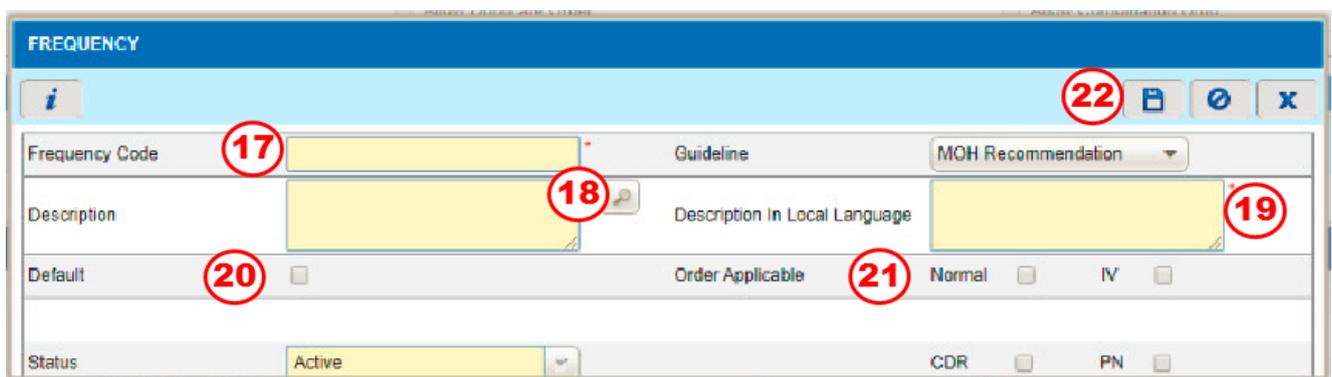


Figure 3.8-6 Drug Frequency

### STEP 16

Click on the  button to Add Frequency for drug

### STEP 17

Insert Frequency Code

### STEP 18

Select Description

### STEP 19

Insert Description In Local Language

### STEP 20

Set default by click the  checkbox

### STEP 21

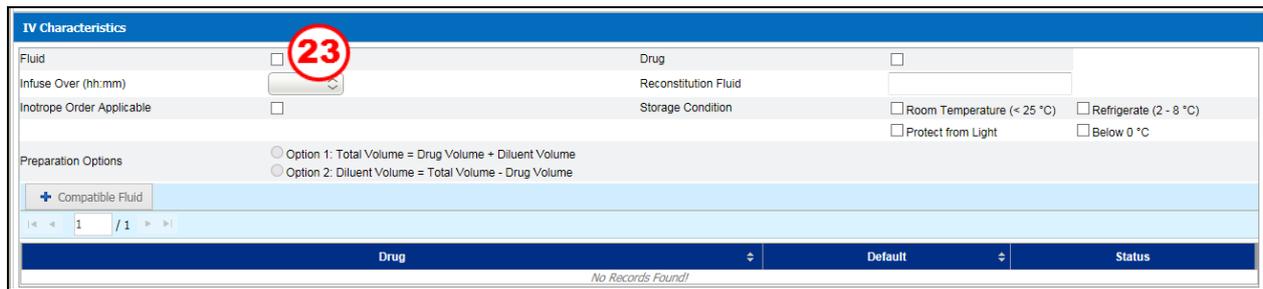
Set order Applicable by click the  checkbox

### STEP 22

Click on the  button to save the Frequency record

### Note

Click on the  button to close record



**IV Characteristics**

Fluid  **23** Drug

Infuse Over (hh:mm)  Reconstitution Fluid

Inotrope Order Applicable  Storage Condition  Room Temperature (< 25 °C)  Refrigerate (2 - 8 °C)

Preparation Options

Option 1: Total Volume = Drug Volume + Diluent Volume

Option 2: Diluent Volume = Total Volume - Drug Volume

/

| Drug              | Default | Status |
|-------------------|---------|--------|
| No Records Found! |         |        |

Figure 3.8-7 Drug IV

**STEP 23**

Select any field in the IV Characteristics if drug from IV group



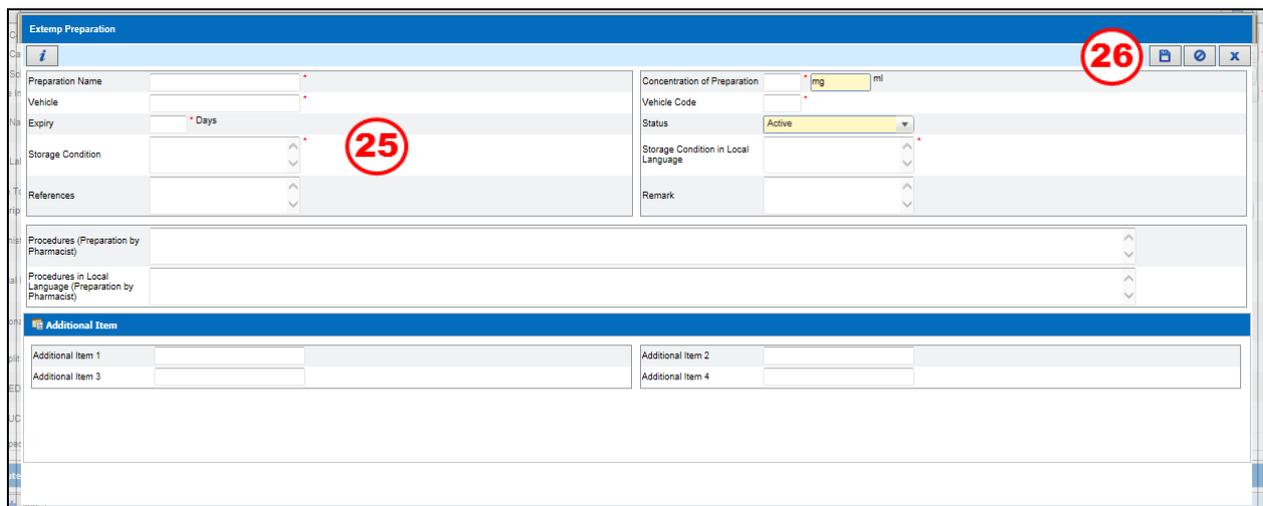
**Extemp Preparation**

**24**

/

| Default           | Preparation Name | Vehicle | Storage | Expiry (Days) | Remark | Status |
|-------------------|------------------|---------|---------|---------------|--------|--------|
| No Records Found! |                  |         |         |               |        |        |

Figure 3.8-8 Drug Extemp



**Extemp Preparation**

Preparation Name  \*

Vehicle  \*

Expiry  Days

Storage Condition  **25**

References

Concentration of Preparation  mg  ml **26**

Vehicle Code

Status

Storage Condition in Local Language

Remark

Procedures (Preparation by Pharmacist)

Procedures in Local Language (Preparation by Pharmacist)

**Additional Item**

|  |  |
|--|--|
| Additional Item 1 <input type="text"/> | Additional Item 2 <input type="text"/> |
| Additional Item 3 <input type="text"/> | Additional Item 4 <input type="text"/> |

Figure 3.8-9 Drug Extemp Preparation

**STEP 24**

Click  if drug is extemp drug

**STEP 25**

Fill all the mandatory field

**STEP 26**

Click on the  button to save the record



Figure 3.8-10 Drug Indication

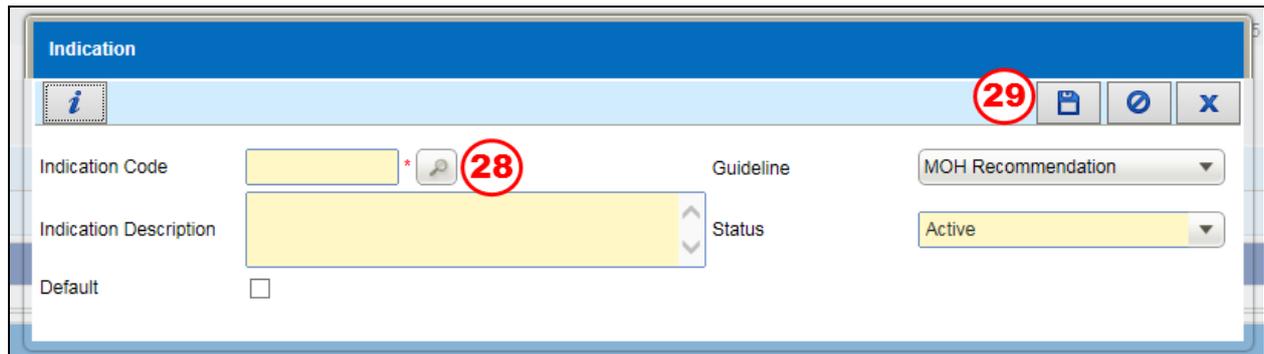
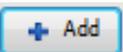


Figure 3.8-11 Drug Indication

**STEP 27**

Click  to insert drug indication

**STEP 28**

Fill all the mandatory field

**STEP 29**

Click on the  button to save the record

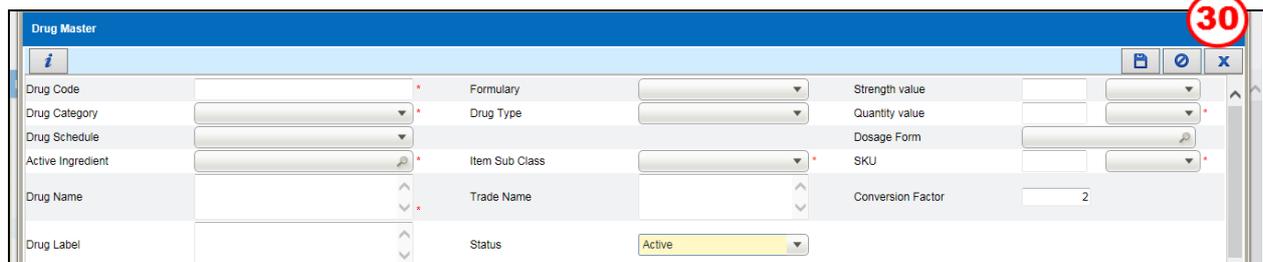


Figure 3.8-12 Drug Master

**STEP 30**

Click on the  button to save the Drug Master record

**Note**

- Click on the  button to close record
- Field with \* is mandatory field

### 3.9 CDR Regimen

#### 3.9.1 Create New CDR Regimen

To Create New CDR Regimen records, perform the steps below:

INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home CDR Regimen ×

CDR REGIMEN

Regimen Code:  Regimen Description:

Category:  Active Ingredient:

Regimen Type:  Status:

1 / 79 [ 1 - 10 / 790 ]

| Code       | Description                 | Cycle Duration | No. of Cycles | Category | Created Date           | Updated Date           | Status |
|------------|-----------------------------|----------------|---------------|----------|------------------------|------------------------|--------|
| CDRON00099 | EMA-CO                      | 15             | 6             | Oncology | 11/11/2013 09:55:37 AM | 27/06/2019 10:29:09 AM | Active |
| CDROT00004 | Methotrexate (IV/IM)        | 1              | 1             | Others   | 06/05/2014 12:29:47 PM | 07/05/2019 11:15:03 AM | Active |
| CDROT00003 | Cyclophosphamide (Infusion) | 1              | 1             | Others   | 06/05/2014 12:16:46 PM | 07/05/2019 11:14:37 AM | Active |
| CDROT00005 | Bleomycin                   | 1              | 1             | Others   | 15/08/2014 03:49:18 PM | 07/05/2019 11:14:14 AM | Active |
| CDROT00009 | Dacarbazine                 | 1              | 1             | Others   | 04/04/2016 01:28:21 PM | 07/05/2019 11:13:51 AM | Active |
| CDROT00010 | Mitomycin                   | 1              | 1             | Others   | 04/04/2016 01:30:02 PM | 07/05/2019 11:13:34 AM | Active |
| CDROT00007 | Vinblastine                 | 1              | 1             | Others   | 22/03/2016 08:15:53 AM | 07/05/2019 11:12:49 AM | Active |
| CDROT00002 | Asparaginase                | 1              | 1             | Others   | 06/05/2014 12:13:57 PM | 07/05/2019 11:12:19 AM | Active |
| CDROT00001 | Vincristine                 | 1              | 1             | Others   | 25/04/2014 11:20:43 PM | 07/05/2019 11:11:46 AM | Active |
| CDROT00006 | Cytarabine                  | 1              | 1             | Others   | 15/08/2014 04:08:08 PM | 07/05/2019 11:11:19 AM | Active |

Figure 3.9.1-1 CDR Regimen Listing Page

#### STEP 1

Click on the Pharmacy menu followed by click on the CDR Regimen menu

#### STEP 2

Click on the  button to add new record and CDR Regimen screen will be displayed as Figure 3.9.1-2

CDR Regimen

Code: CDRHE00206 Status: Active

Description: HyperCVAD Course A + Rituximab Cycle Duration: 14\*

Category: Hematology Regimen Type: NA

No. of Cycles: 4 Remarks:

Regimen Drug

| Default Drug Name | Frequency | Dosage | Chemo Day | Remarks | Status |
|-------------------|-----------|--------|-----------|---------|--------|
| No record found   |           |        |           |         |        |

Figure 3.9.1-2 CDR Regimen Master

#### STEP 3

Enter **Code** and **Description**

#### STEP 4

Select **Category** from drop down box:

- Hematology
- Oncology

- Others
- Paediatric

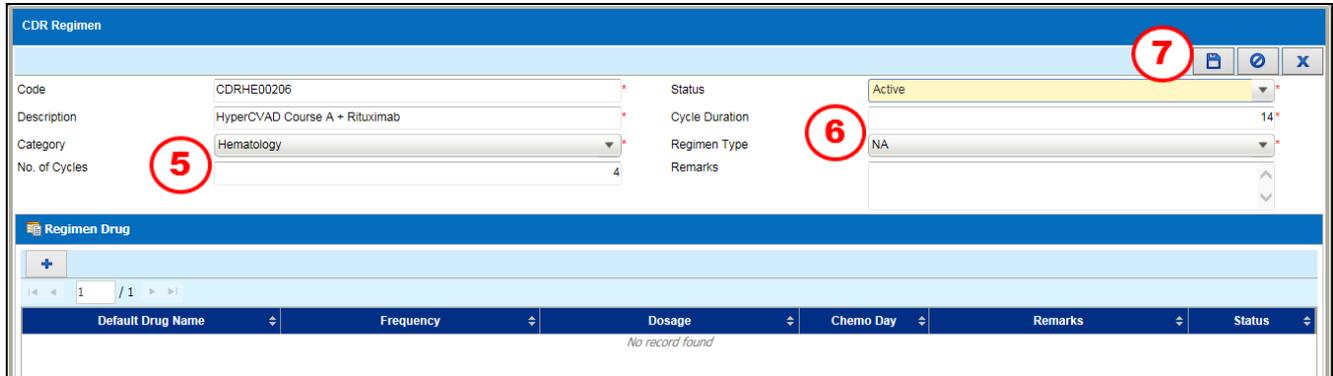


Figure 3.9.1-3 CDR Regimen Master

**STEP 5**

Enter **No. of Cycles**

**STEP 6**

Enter **Cycle Duration** and **Regimen Type**

**Note**

**Regimen Type** will display information based on selected **Category**

**STEP 7**

Click on the  button to save the data

**Note**

- Confirmation message as shown in Figure 3.9.1-4 will be displayed after user save the record

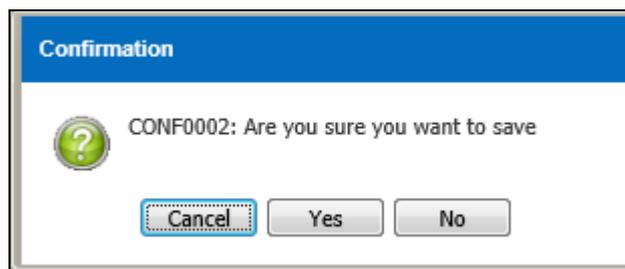


Figure 3.9.1-4 Confirmation Message

- Record will save when user click on the  button as shown in Figure 3.9.1-5

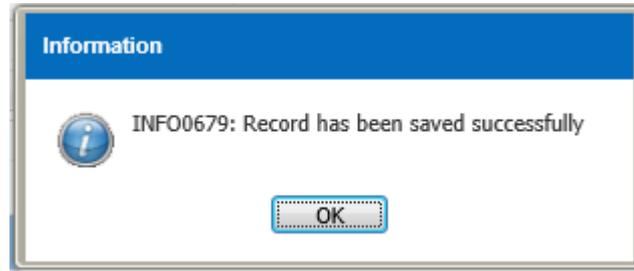


Figure 3.9.1-5 Confirmation Message

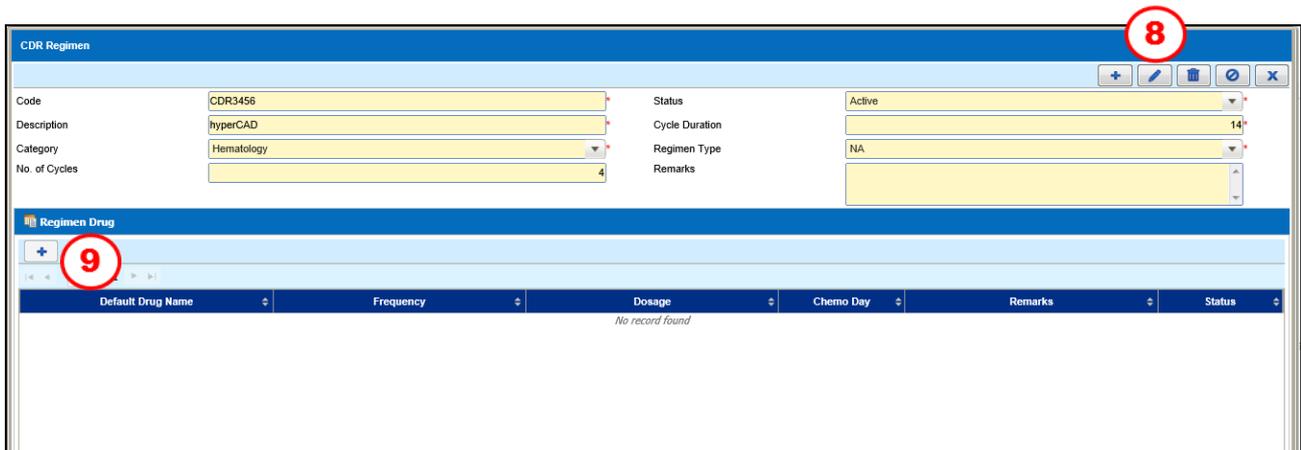


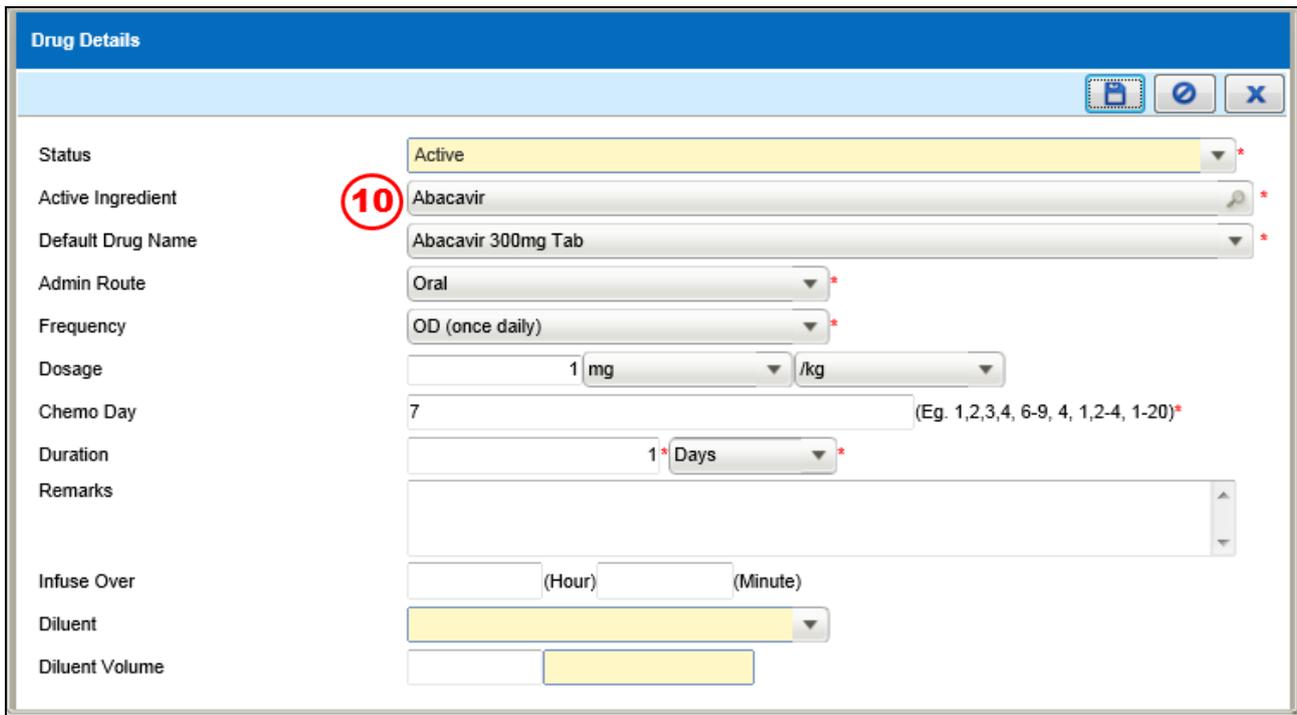
Figure 3.9.1-6 CDR Regimen Master

**STEP 8**

Click on the  button to edit the CDR Regimen screen

**STEP 9**

Click on the  button to add Regimen Drug



**Drug Details**

Status: Active

Active Ingredient: **10** Abacavir

Default Drug Name: Abacavir 300mg Tab

Admin Route: Oral

Frequency: OD (once daily)

Dosage: 1 mg /kg

Chemo Day: 7 (Eg. 1,2,3,4, 6-9, 4, 1,2-4, 1-20)\*

Duration: 1 Days

Remarks:

Infuse Over: (Hour) (Minute)

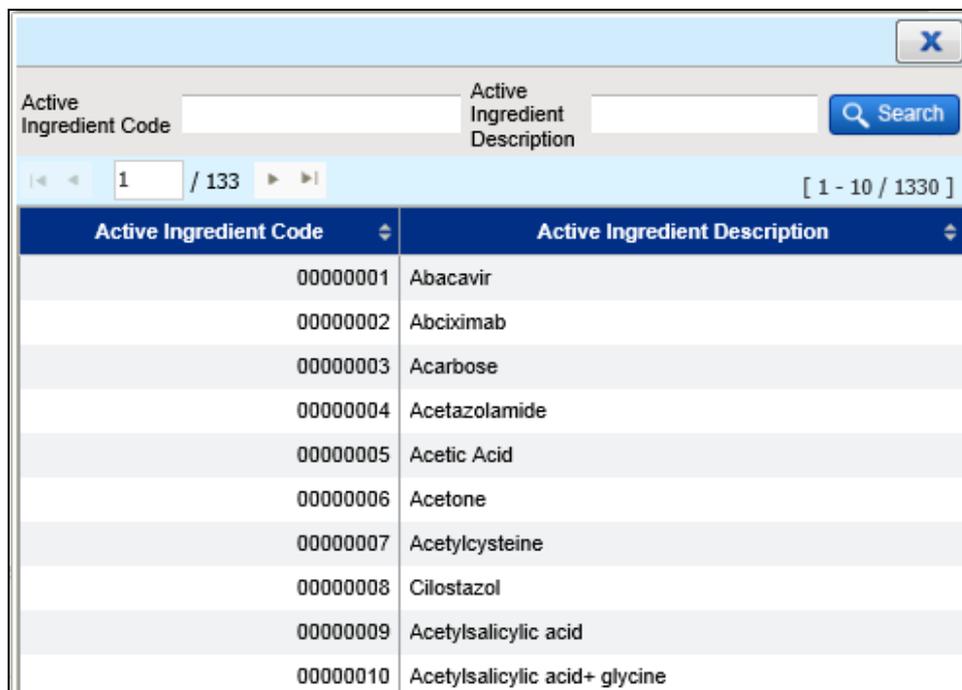
Diluent:

Diluent Volume:

Figure 3.9.1-7 CDR Regimen Master

**STEP 10**

Click on the  button to search **Active Ingredient** and double click on the selected Active Ingredient as per Figure 3.9.1-8



Active Ingredient Code: [ ] Active Ingredient Description: [ ] Search

1 / 133 [ 1 - 10 / 1330 ]

| Active Ingredient Code | Active Ingredient Description |
|------------------------|-------------------------------|
| 00000001               | Abacavir                      |
| 00000002               | Abciximab                     |
| 00000003               | Acarbose                      |
| 00000004               | Acetazolamide                 |
| 00000005               | Acetic Acid                   |
| 00000006               | Acetone                       |
| 00000007               | Acetylcysteine                |
| 00000008               | Cilostazol                    |
| 00000009               | Acetylsalicylic acid          |
| 00000010               | Acetylsalicylic acid+ glycine |

Figure 3.9.1-8 Active Ingredient

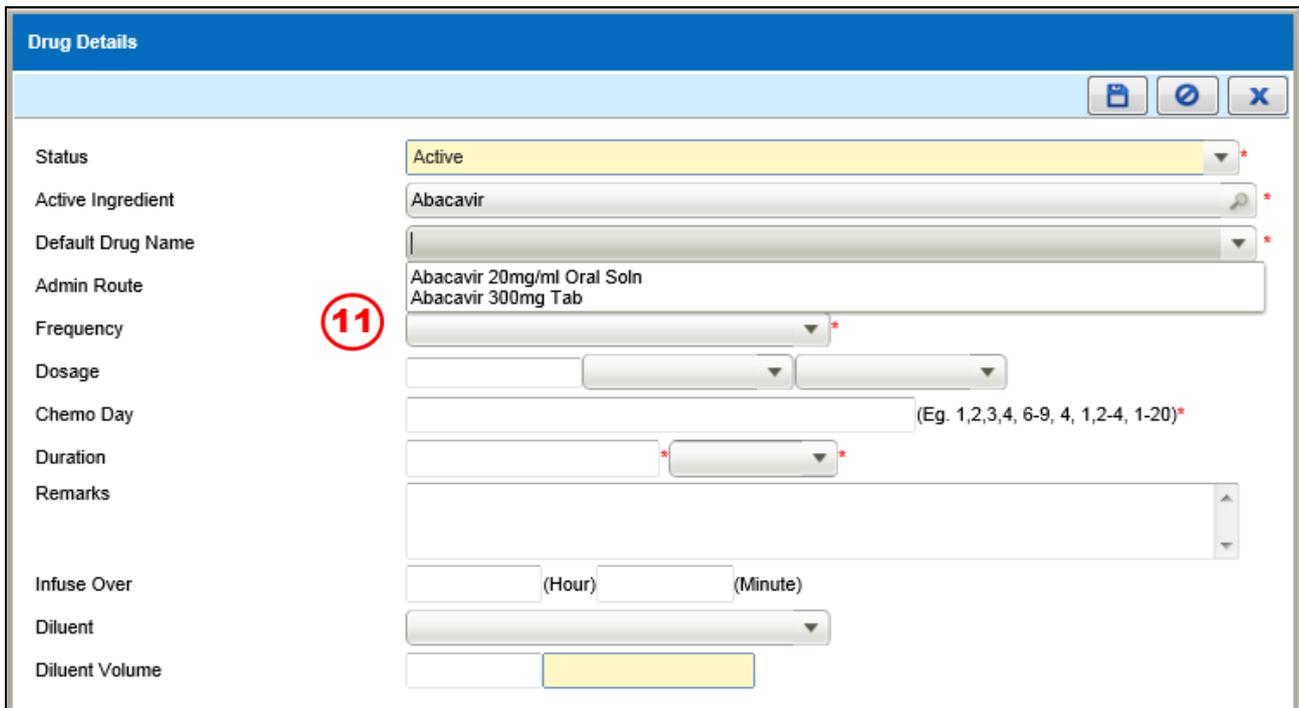


Figure 3.9.1-9 Active Ingredient

**STEP 11**

Click on Dropdown Box to select :

- **Default Drug Name**
- **Admin Route**
- **Frequency**

**Note**

**Default Drug Name, Admin Route and Frequency** will display the information based on selected **Active Ingredient**

**Drug Details**

Status: Active

Active Ingredient: Abacavir

Default Drug Name: Abacavir 300mg Tab

Admin Route: Oral

Frequency: OD (once daily)

Dosage: 1 mg /kg

Chemo Day: 7 (Eg. 1,2,3,4, 6-9, 4, 1,2-4, 1-20)\*

Duration: 1 Days

Remarks:

Infuse Over: (Hour) (Minute)

Diluent:

Diluent Volume:

**12**

Figure 3.9.1-10 Drug Details

**STEP 12**

Fill all the criteria:

- Fill the **Dosage**
- Fill the **Chemo Day**
- Fill the **Duration**

**Note**

**Remarks and Infuse Over**

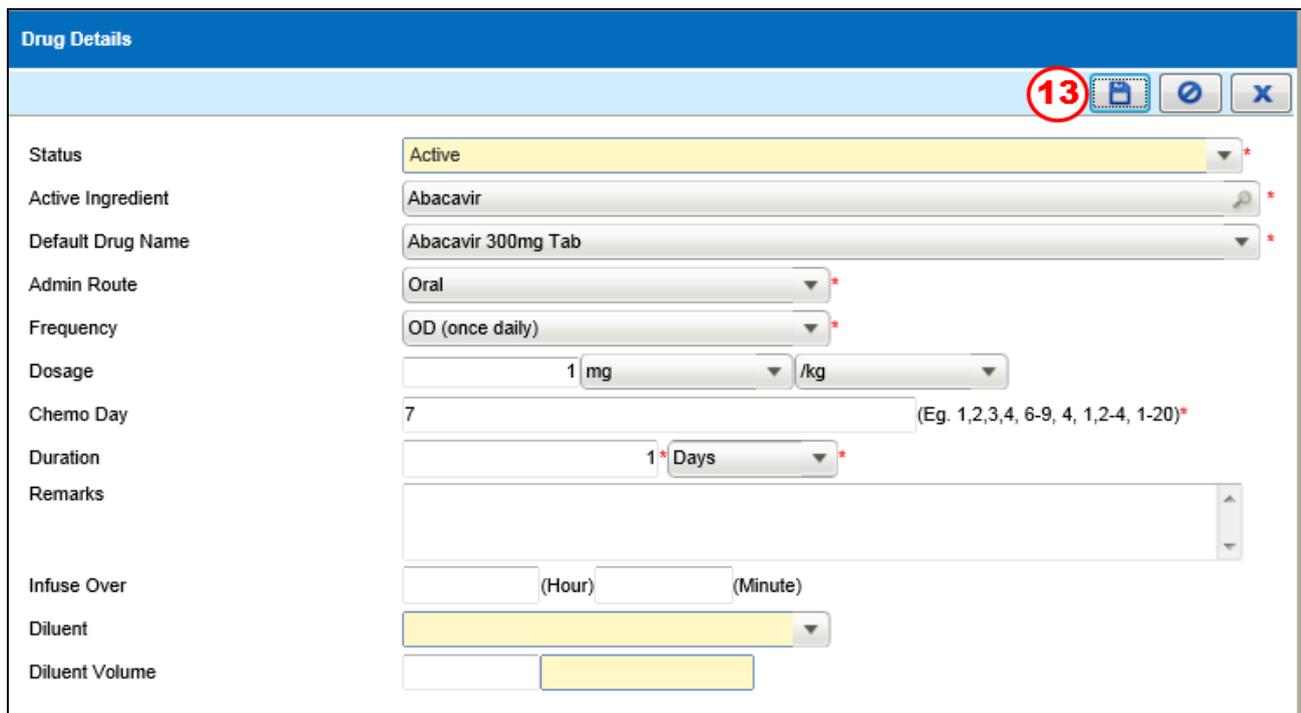
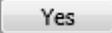


Figure 3.9.1-11 Drug Details

### STEP 13

Click on the  button to save the data

### Note

- Confirmation message as shown in Figure 3.9.1-12 will be displayed after user save the record and click  to save the record.

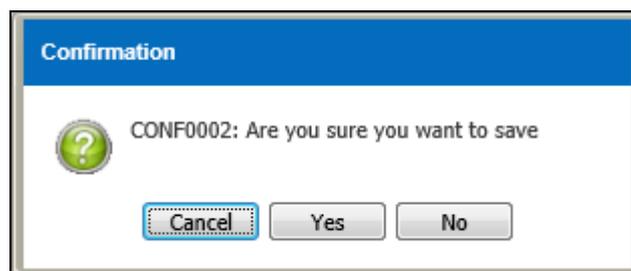


Figure 3.9.1-12 Confirmation Message

- Click on the  button to close the **Drug Details** screen.

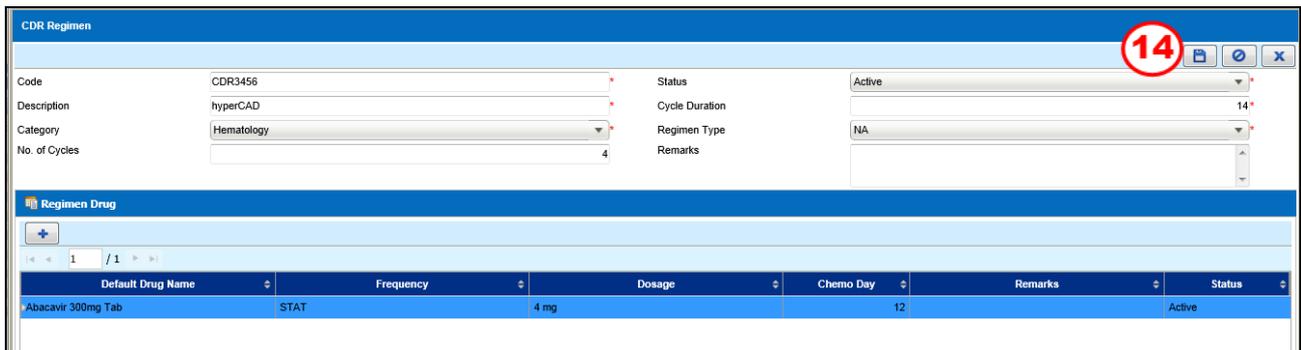


Figure 3.9.1-13 CDR Regimen

**STEP 14**

Click on the  button to save the data

**Note**

- Confirmation message as shown in Figure 3.9.1-14 will be displayed after user save the record

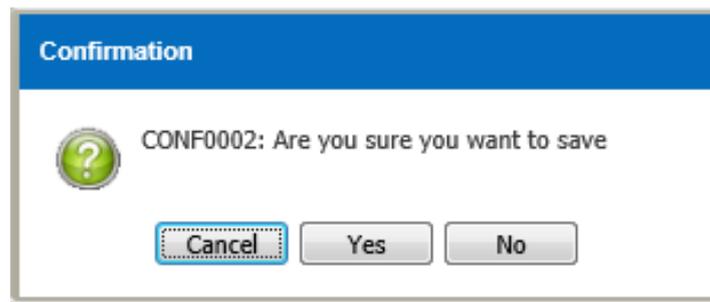


Figure 3.9.1-14 Confirmation Message

- Record will save when user click on the  button as shown in Figure 3.9.1-15

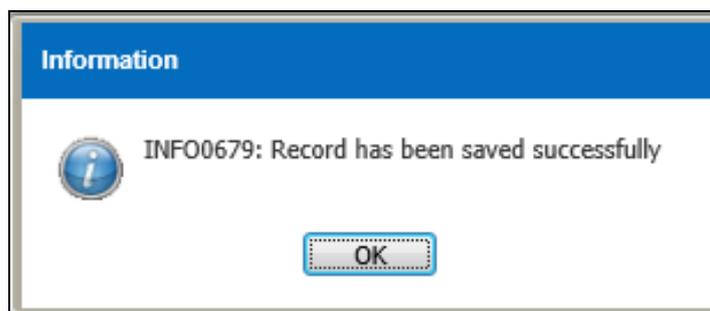
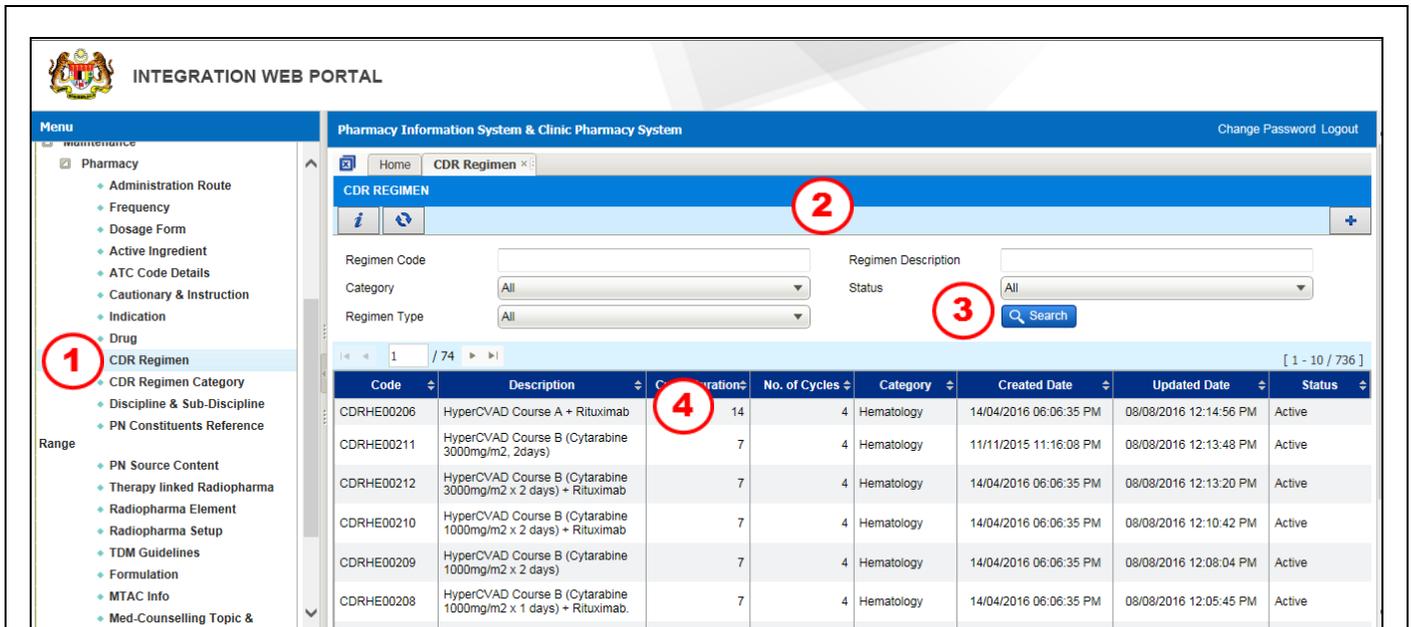


Figure 3.9.1-15 Information Message

- Click on the  button to close the CDR Regimen screen

### 3.9.2 Modify CDR Regimen Record

To modify CDR Regimen records, perform the steps below:



**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Menu: Pharmacy, Administration Route, Frequency, Dosage Form, Active Ingredient, ATC Code Details, Cautionary & Instruction, Indication, Drug, **CDR Regimen**, CDR Regimen Category, Discipline & Sub-Discipline, PN Constituents Reference, PN Source Content, Therapy linked Radiopharma, Radiopharma Element, Radiopharma Setup, TDM Guidelines, Formulation, MTAC Info, Med-Counselling Topic &

CDR REGIMEN

Regimen Code:  Regimen Description:

Category: All Status: All

Regimen Type: All

| Code       | Description   | Concentration | No. of Cycles | Category   | Created Date           | Updated Date           | Status |
|------------|---|---------------|---------------|------------|------------------------|------------------------|--------|
| CDRHE00206 | HyperCVAD Course A + Rituximab                                  | 14            | 4             | Hematology | 14/04/2016 06:06:35 PM | 08/08/2016 12:14:56 PM | Active |
| CDRHE00211 | HyperCVAD Course B (Cytarabine 3000mg/m2, 2days)                | 7             | 4             | Hematology | 11/11/2015 11:16:08 PM | 08/08/2016 12:13:48 PM | Active |
| CDRHE00212 | HyperCVAD Course B (Cytarabine 3000mg/m2 x 2 days) + Rituximab  | 7             | 4             | Hematology | 14/04/2016 06:06:35 PM | 08/08/2016 12:13:20 PM | Active |
| CDRHE00210 | HyperCVAD Course B (Cytarabine 1000mg/m2 x 2 days) + Rituximab  | 7             | 4             | Hematology | 14/04/2016 06:06:35 PM | 08/08/2016 12:10:42 PM | Active |
| CDRHE00209 | HyperCVAD Course B (Cytarabine 1000mg/m2 x 2 days)              | 7             | 4             | Hematology | 14/04/2016 06:06:35 PM | 08/08/2016 12:08:04 PM | Active |
| CDRHE00208 | HyperCVAD Course B (Cytarabine 1000mg/m2 x 1 days) + Rituximab. | 7             | 4             | Hematology | 14/04/2016 06:06:35 PM | 08/08/2016 12:05:45 PM | Active |

Figure 3.9.2-1 CDR Regimen Listing Page

#### STEP 1

Click on the Pharmacy menu followed by click on the CDR Regimen menu

#### STEP 2

To search for existing CDR Regimen record, user may search by criteria as follow:

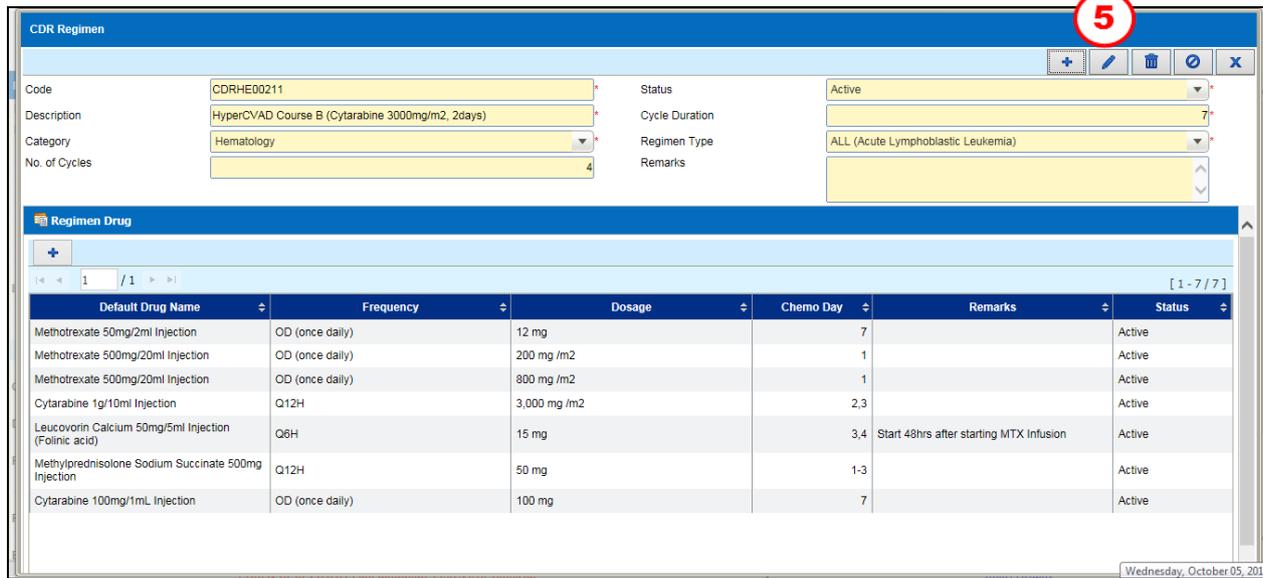
- a) **Regimen Code**
- b) **Regimen Description**
- c) **Category**
- d) **Status**
- e) **Regimen Type**

#### STEP 3

Click on the  button. The result(s) display will be based on the entered criteria.

#### STEP 4

Double click on the selected record and the details of the CDR Regimen record will be displayed as Figure 3.9.2-2



**CDR Regimen**

Code: CDRHE00211 | Status: Active

Description: HyperCVAD Course B (Cytarabine 3000mg/m2, 2days) | Cycle Duration: 7

Category: Hematology | Regimen Type: ALL (Acute Lymphoblastic Leukemia)

No. of Cycles: 4 | Remarks:

| Default Drug Name                                    | Frequency       | Dosage       | Chemo Day | Remarks                                 | Status |
|--|-----------------|--------------|-----------|---|--------|
| Methotrexate 50mg/2ml Injection                      | OD (once daily) | 12 mg        | 7         |   | Active |
| Methotrexate 500mg/20ml Injection                    | OD (once daily) | 200 mg /m2   | 1         |   | Active |
| Methotrexate 500mg/20ml Injection                    | OD (once daily) | 800 mg /m2   | 1         |   | Active |
| Cytarabine 1g/10ml Injection                         | Q12H            | 3,000 mg /m2 | 2,3       |   | Active |
| Leucovorin Calcium 50mg/5ml Injection (Folinic acid) | Q6H             | 15 mg        | 3,4       | Start 48hrs after starting MTX Infusion | Active |
| Methylprednisolone Sodium Succinate 500mg Injection  | Q12H            | 50 mg        | 1-3       |   | Active |
| Cytarabine 100mg/1mL Injection                       | OD (once daily) | 100 mg       | 7         |   | Active |

Figure 3.9.2-2 CDR Regimen

**STEP 5**

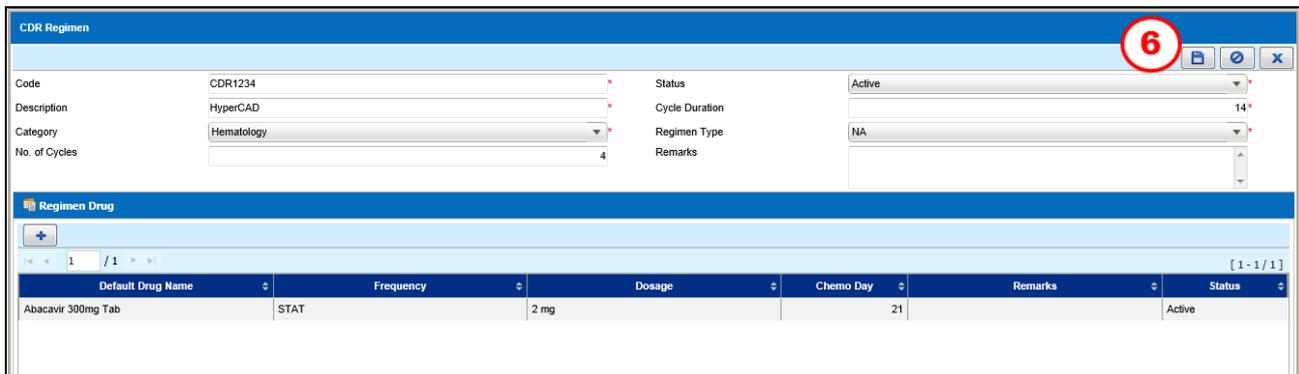


Click on the  button to modify CDR Regimen record

**Note**

User is allowed to edit the following description as per Figure 3.9.2-3 :

- **Code**
- **Status**
- **Description**
- **Cycle Duration**
- **Category**
- **Regimen Type**
- **No. of Cycle**
- **Add Regimen Drug**



**CDR Regimen**

Code: CDR1234 | Status: Active

Description: HyperCAD | Cycle Duration: 14

Category: Hematology | Regimen Type: NA

No. of Cycles: 4 | Remarks:

| Default Drug Name  | Frequency | Dosage | Chemo Day | Remarks | Status |
|--------------------|-----------|--------|-----------|---------|--------|
| Abacavir 300mg Tab | STAT      | 2 mg   | 21        |         | Active |

Figure 3.9.2-3 CDR Regimen

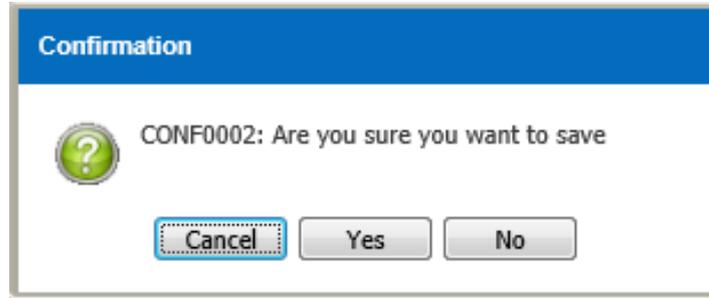
**STEP 6**



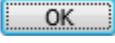
Click on the  button to save the data

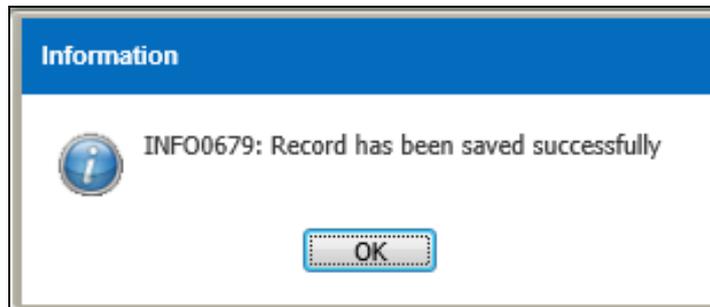
**Note**

- Confirmation message as shown in Figure 3.9.2-4 will be displayed after user save the record



**Figure 3.9.2-4 Confirmation Message**

- Record will save when user click on the  button as shown in Figure 3.9.2-5



**Figure 3.9.2-5 Confirmation Message**

- Click on the  button to close the CDR Regimen screen.

### 3.10 CDR Regimen Category

#### 3.10.1 Create New CDR Regimen Category

To Create New CDR Regimen Category records, perform the steps below:

| Category   | Regimen Type                                | Remarks | Created Date           | Updated Date           | Status   |
|------------|---|---------|------------------------|------------------------|----------|
| Oncology   | Breast                                      |         | 11/11/2013 09:53:13 AM | 08/06/2016 10:16:17 AM | Active   |
| Hematology | Multiple Myeloma                            |         | 23/11/2015 01:49:21 PM | 23/11/2015 01:49:21 PM | Active   |
| Hematology | NHL (Non-Hodgkin's Lymphoma)                |         | 12/11/2015 08:40:19 AM | 12/11/2015 08:40:19 AM | Active   |
| Hematology | HL (Hodgkin's Lymphoma)                     |         | 12/11/2015 07:41:57 AM | 12/11/2015 07:41:57 AM | Active   |
| Hematology | ALL (Acute Lymphoblastic Leukemia)          |         | 11/11/2015 10:52:47 PM | 11/11/2015 10:52:47 PM | Active   |
| Hematology | APML (Acute Promyelocytic Leukemia, AML-M3) |         | 11/11/2015 10:00:19 PM | 11/11/2015 10:00:19 PM | Active   |
| Hematology | AML (Acute Myeloid Leukaemia)               |         | 11/11/2015 03:48:59 PM | 11/11/2015 03:48:59 PM | Active   |
| Paediatric | T-Cell ALL / NHL                            |         | 14/10/2015 01:30:05 PM | 14/10/2015 01:30:05 PM | Active   |
| Oncology   | Uterus                                      |         | 11/11/2013 09:53:13 AM | 13/10/2015 04:42:17 PM | Inactive |
| Oncology   | -   |         | 09/10/2015 10:48:22 AM | 09/10/2015 10:48:22 AM | Active   |

Figure 3.10.1-1 CDR Regimen Category Listing Page

#### STEP 1

Click on the Maintenance menu followed by click on the Pharmacy and click on the CDR Regimen Category sub menu

#### STEP 2

Click on the  button to create new record and Regimen Category screen will be displayed as Figure 3.10.1-2

Figure 3.10.1-2 Regimen Category

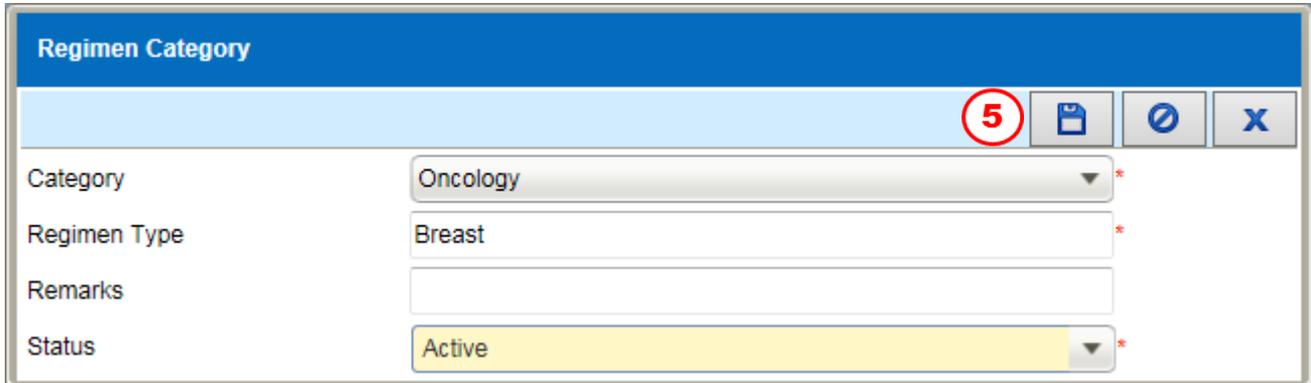
#### STEP 3

Select **Category** from drop down box:

- **Hematology**
- **Oncology**
- **Others**
- **Paediatric**

**STEP 4**

Enter **Regimen Type**



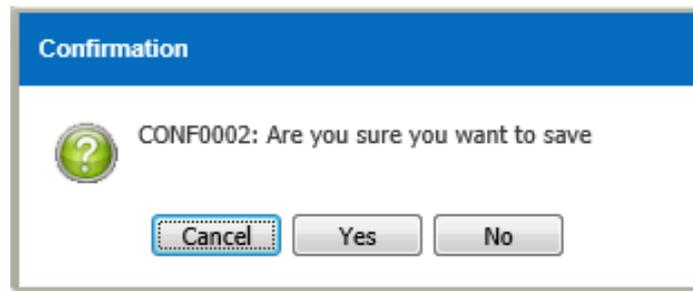
**Figure 3.10.1-3 Regimen Category**

**STEP 5**

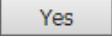
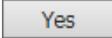
Click on the  button to save the record

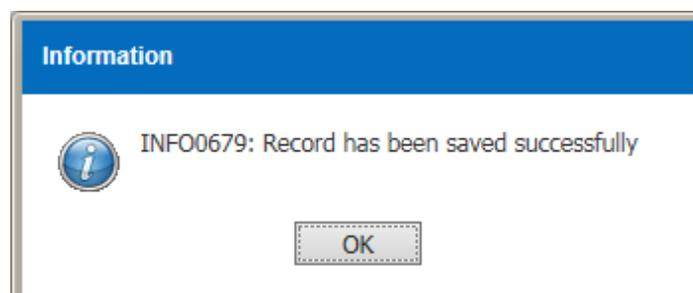
**Note**

- System will display a Confirmation Message as Figure 3.10.1-4



**Figure 3.10.1-4 Confirmation Message**

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.10.1-5



**Figure 3.10.1-5 Information Message**

Click on the  button to confirmed the record

### 3.10.2 Modify CDR Regimen Category

To modify CDR Regimen Category records, perform the steps below:

| Category   | Regimen Type                                | Remarks | Created Date           | Updated Date           | Status   |
|------------|---|---------|------------------------|------------------------|----------|
| Oncology   | Breast                                      |         | 11/11/2013 09:53:13 AM | 08/06/2016 10:16:17 AM | Active   |
| Hematology | Multiple Myeloma                            |         | 23/11/2015 01:49:21 PM | 23/11/2015 01:49:21 PM | Active   |
| Hematology | NHL (Non-Hodgkin's Lymphoma)                |         | 12/11/2015 08:40:19 AM | 12/11/2015 08:40:19 AM | Active   |
| Hematology | HL (Hodgkin's Lymphoma)                     |         | 12/11/2015 07:41:57 AM | 12/11/2015 07:41:57 AM | Active   |
| Hematology | ALL (Acute Lymphoblastic Leukemia)          |         | 11/11/2015 10:52:47 PM | 11/11/2015 10:52:47 PM | Active   |
| Hematology | APML (Acute Promyelocytic Leukemia, AML-M3) |         | 11/11/2015 10:00:19 PM | 11/11/2015 10:00:19 PM | Active   |
| Hematology | AML (Acute Myeloid Leukaemia)               |         | 11/11/2015 03:48:59 PM | 11/11/2015 03:48:59 PM | Active   |
| Paediatric | T-Cell ALL / NHL                            |         | 14/10/2015 01:30:05 PM | 14/10/2015 01:30:05 PM | Active   |
| Oncology   | Uterus                                      |         | 11/11/2013 09:53:13 AM | 13/10/2015 04:42:17 PM | Inactive |
| Oncology   | -   |         | 09/10/2015 10:48:22 AM | 09/10/2015 10:48:22 AM | Active   |

Figure 3.10.2-1 CDR Regimen Category Listing Page

**STEP 1**

Click on the Maintenance menu followed by click on the Pharmacy and click on the CDR Regimen Category sub menu

**STEP 2**

Click on the selected record

Figure 3.10.2-2 Regimen Category

**STEP 3**

Click on the  button to edit the record

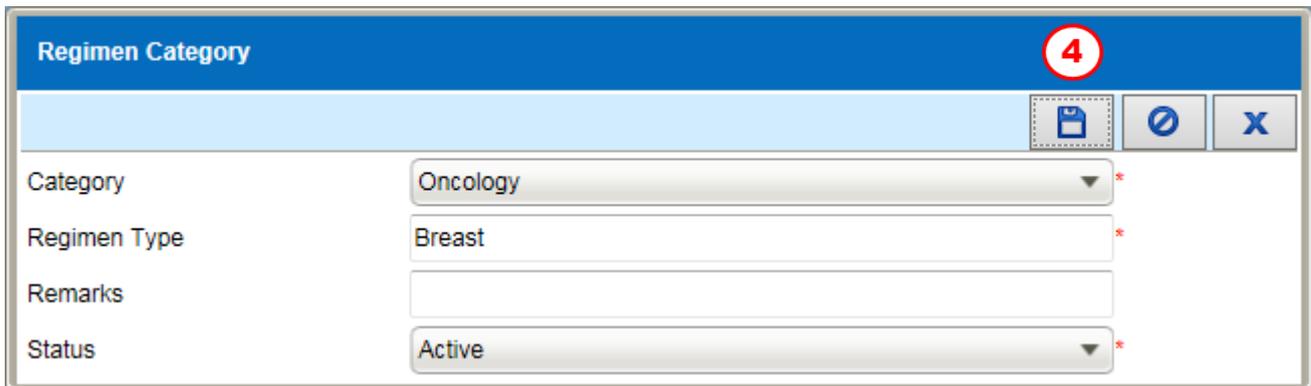


Figure 3.10.2-3 Regimen Category

**Note**

User is allowing to edit:

- **Category**
- **Regimen Type**
- **Remarks**
- **Status**

**STEP 4**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.10.2-4

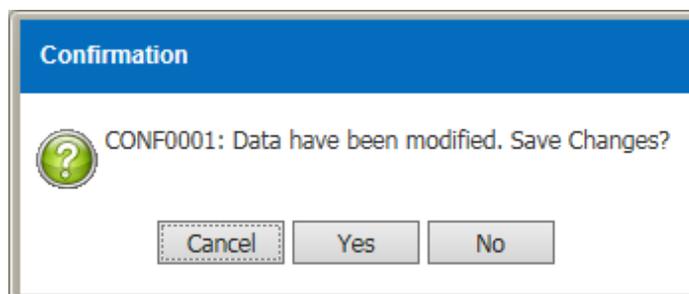
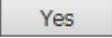
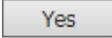


Figure 3.10.2-4 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.10.2-5

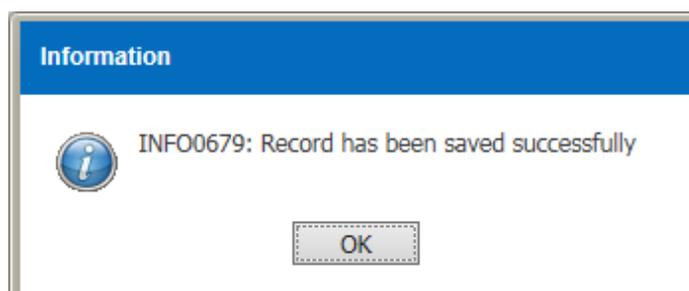


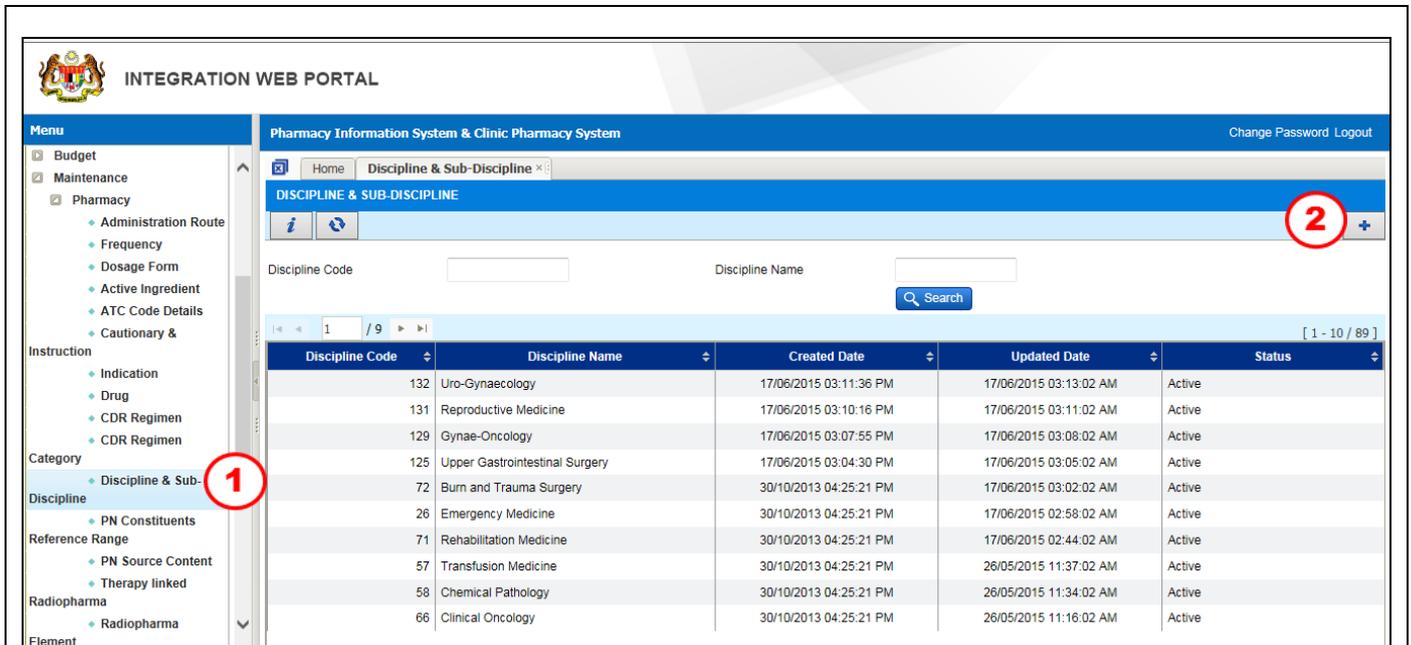
Figure 3.10.2-5 Information Message

- Click on the  button to confirmed the edited record

### 3.11 Discipline and Sub Discipline

#### 3.11.1 Create New Discipline and Sub Discipline

To Create Discipline and Sub Discipline records, perform the steps below:



**Menu**

- Budget
- Maintenance
  - Pharmacy
    - Administration Route
    - Frequency
    - Dosage Form
    - Active Ingredient
    - ATC Code Details
    - Cautionary &
  - Instruction
    - Indication
    - Drug
    - CDR Regimen
    - CDR Regimen
  - Category
    - Discipline & Sub-Discipline** (1)
    - PN Constituents
  - Reference Range
    - PN Source Content
    - Therapy linked
  - Radiopharma
    - Radiopharma
  - Element

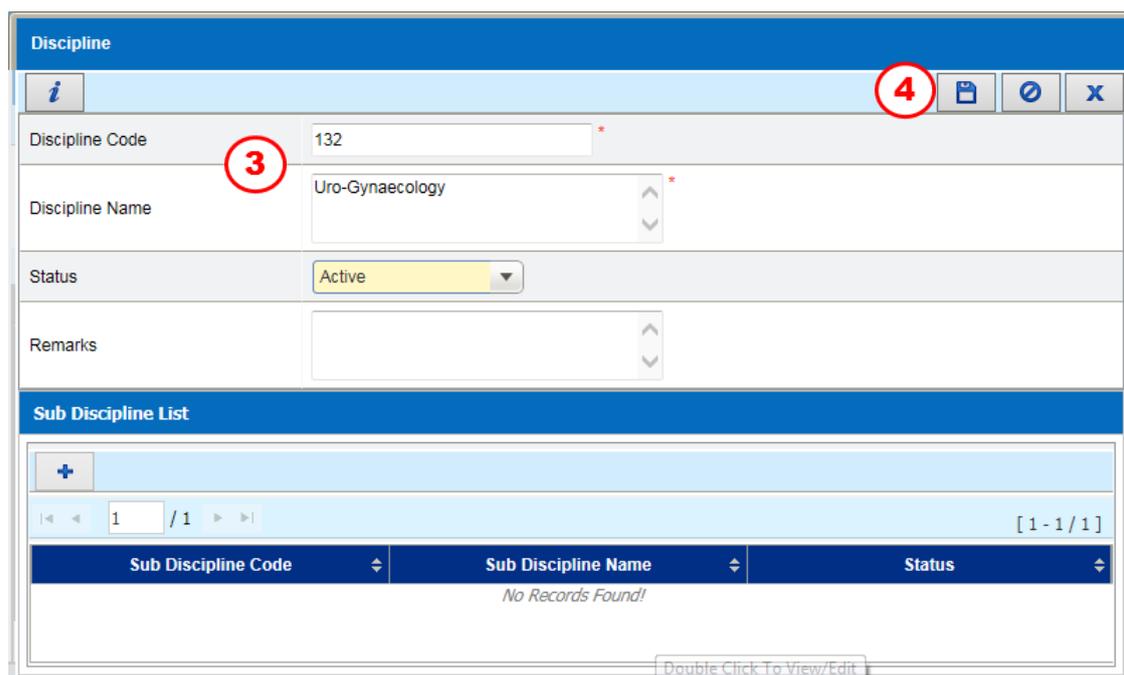
Figure 3.11.1-1 Discipline and Sub Discipline Master Listing Page

#### STEP 1

Click on the Maintenance menu followed by click on the Pharmacy and click on Discipline & Sub-Discipline sub menu

#### STEP 2

Click on the  button to create a new record and Discipline screen will be displayed as Figure 3.11.1-2



**Discipline**

Discipline Code: 132 (3)

Discipline Name: Uro-Gynaecology

Status: Active

Remarks:

**Sub Discipline List**

[ 1 - 1 / 1 ]

| Sub Discipline Code | Sub Discipline Name | Status |
|---------------------|---------------------|--------|
| No Records Found!   |                     |        |

Double Click To View/Edit

Figure 3.11.1-2 Discipline

### STEP 3

Enter **Discipline Code** and **Discipline Name**

#### Note

Enter **Remarks** (optional)

### STEP 4

Click on the  button to save the record

#### Note

- System will display a Confirmation Message as Figure 3.11.1-3

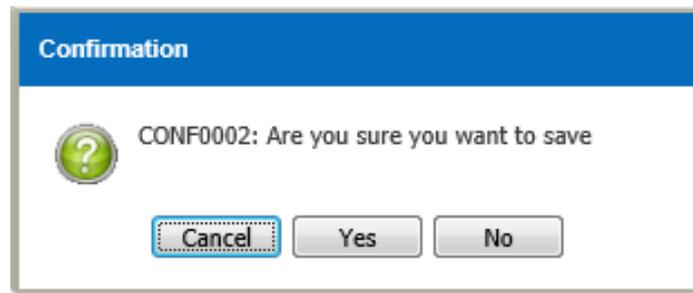
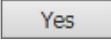
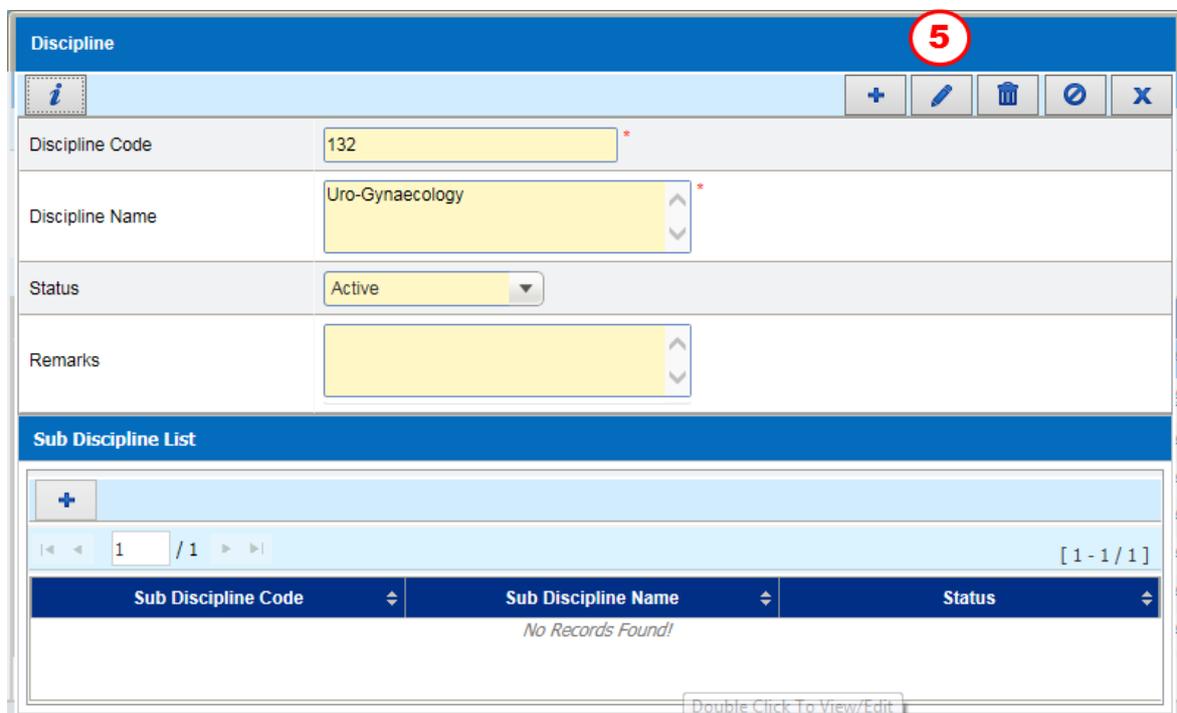


Figure 3.11.1-3 Confirmation Message

- Click on the  button to save the record



The "Discipline" form is displayed in a window with a blue header. A red circle with the number "5" is positioned above the top right corner of the form. The form contains the following fields:

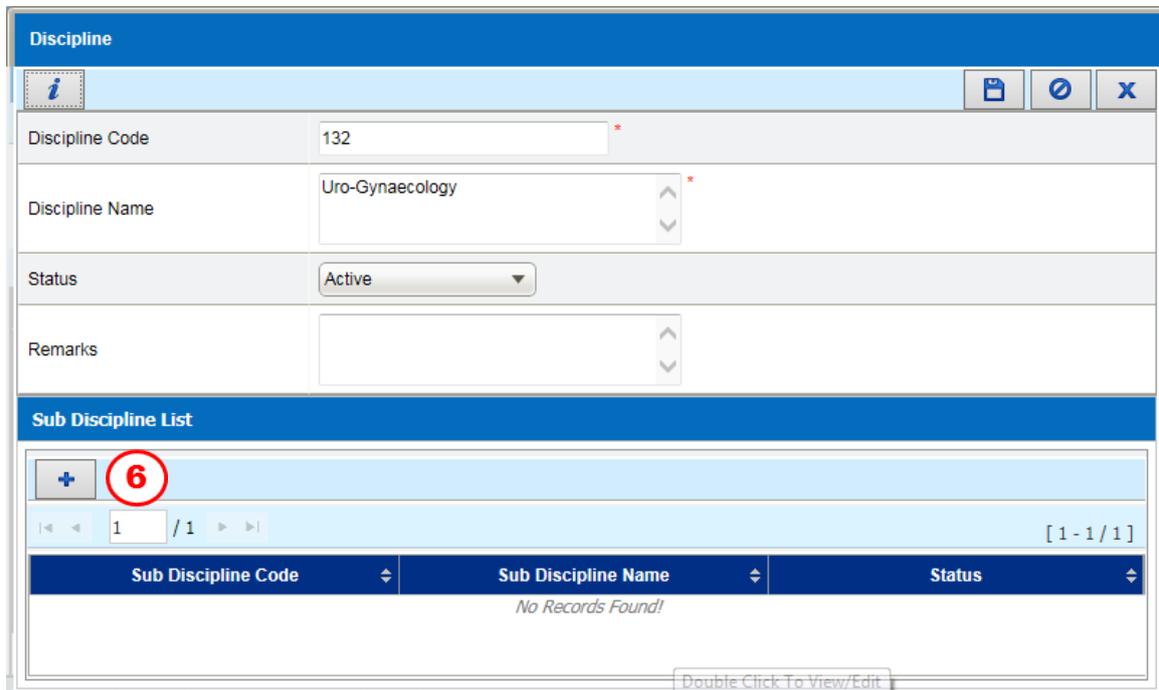
- Discipline Code:** Text input field containing "132".
- Discipline Name:** Text input field containing "Uro-Gynaecology".
- Status:** Dropdown menu set to "Active".
- Remarks:** Text area.

Below the form is a "Sub Discipline List" section with a table. The table has three columns: "Sub Discipline Code", "Sub Discipline Name", and "Status". The table is currently empty, displaying "No Records Found!".

Figure 3.11.1-4 Discipline

### STEP 5

Click on the  button to edit the record



| Sub Discipline Code | Sub Discipline Name | Status |
|---------------------|---------------------|--------|
| No Records Found!   |                     |        |

Figure 3.11.1-5 Discipline

**STEP 6**

Click on the  button to add Sub Discipline into the List and Sub Discipline screen will be displayed as Figure 3.11.1-6

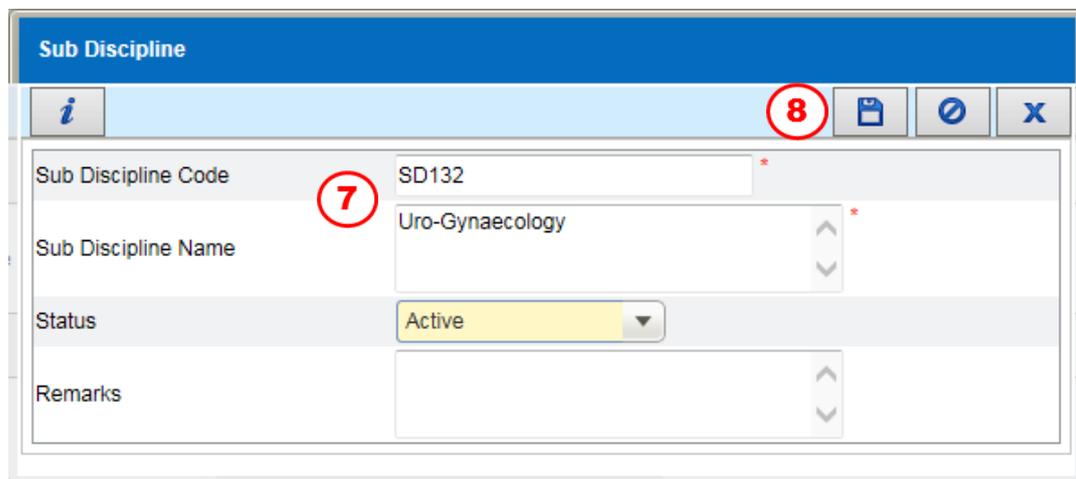


Figure 3.11.1-6 Sub Discipline

**STEP 7**

Enter **Sub Discipline Code** and **Sub Discipline Name**

**Note**

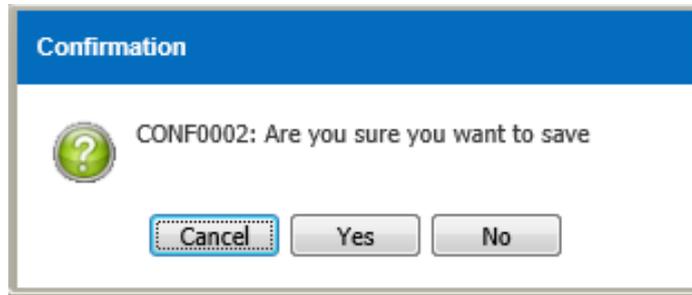
Enter **Remarks** (optional)

**STEP 8**

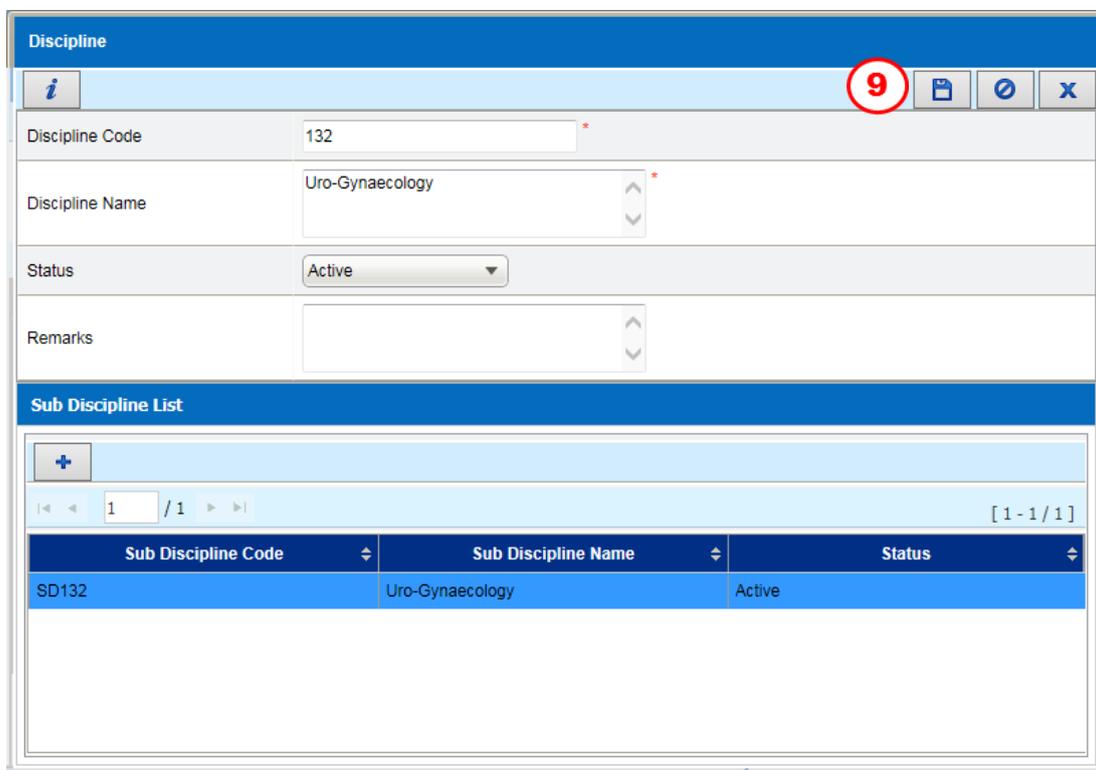
Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.11.1-7



**Figure 3.11.1-7 Confirmation Message**



**Figure 3.11.1-8 Discipline**

**Note**

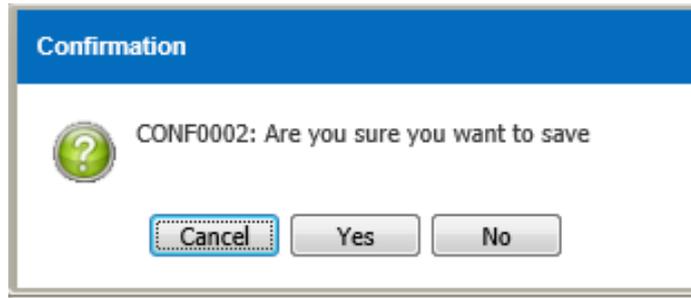
User can add more than 1 Sub Discipline by repeating **STEP 6** to **STEP 8**

**STEP 9**

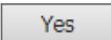
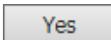
Click on the  button to save the record

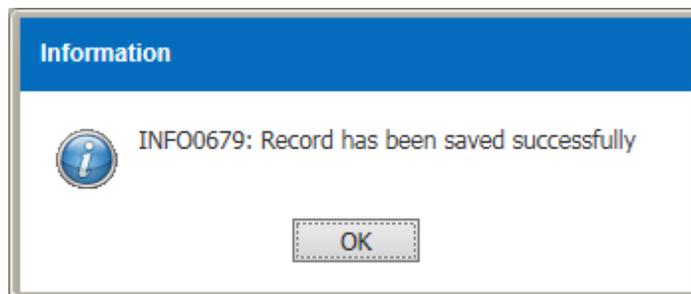
**Note**

- System will display a Confirmation Message as Figure 3.11.1-9

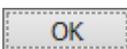


**Figure 3.11.1-9 Confirmation Message**

- Click on the  button to save the record
- Information Message will display after click on the  button as Figure 3.11.1-10

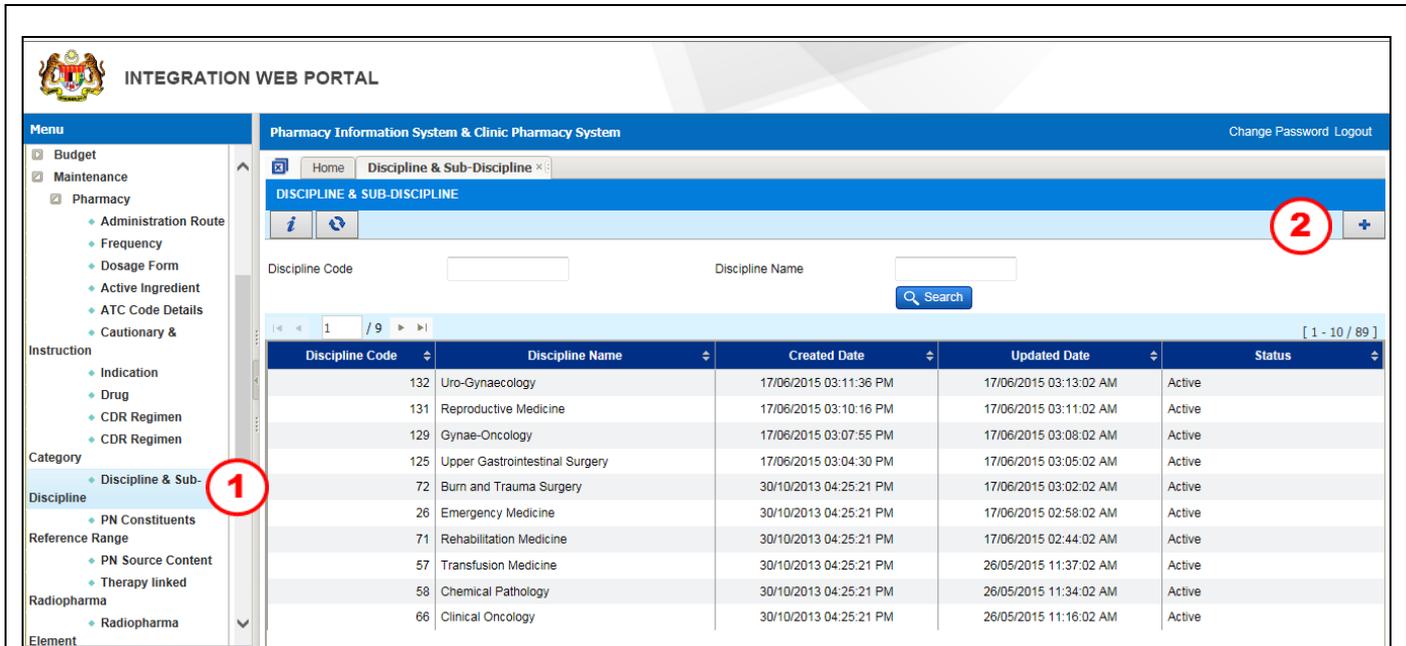


**Figure 3.11.1-10 Information Message**

Click on the  button to confirmed the record

### 3.11.2 Modify Discipline and Sub Discipline

To modify Discipline and Sub Discipline records, perform the steps below:



**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Discipline & Sub-Discipline

**DISCIPLINE & SUB-DISCIPLINE**

Discipline Code  Discipline Name

| Discipline Code | Discipline Name                | Created Date           | Updated Date           | Status |
|-----------------|--------------------------------|------------------------|------------------------|--------|
| 132             | Uro-Gynaecology                | 17/06/2015 03:11:36 PM | 17/06/2015 03:13:02 AM | Active |
| 131             | Reproductive Medicine          | 17/06/2015 03:10:16 PM | 17/06/2015 03:11:02 AM | Active |
| 129             | Gynae-Oncology                 | 17/06/2015 03:07:55 PM | 17/06/2015 03:08:02 AM | Active |
| 125             | Upper Gastrointestinal Surgery | 17/06/2015 03:04:30 PM | 17/06/2015 03:05:02 AM | Active |
| 72              | Burn and Trauma Surgery        | 30/10/2013 04:25:21 PM | 17/06/2015 03:02:02 AM | Active |
| 26              | Emergency Medicine             | 30/10/2013 04:25:21 PM | 17/06/2015 02:58:02 AM | Active |
| 71              | Rehabilitation Medicine        | 30/10/2013 04:25:21 PM | 17/06/2015 02:44:02 AM | Active |
| 57              | Transfusion Medicine           | 30/10/2013 04:25:21 PM | 26/05/2015 11:37:02 AM | Active |
| 58              | Chemical Pathology             | 30/10/2013 04:25:21 PM | 26/05/2015 11:34:02 AM | Active |
| 66              | Clinical Oncology              | 30/10/2013 04:25:21 PM | 26/05/2015 11:16:02 AM | Active |

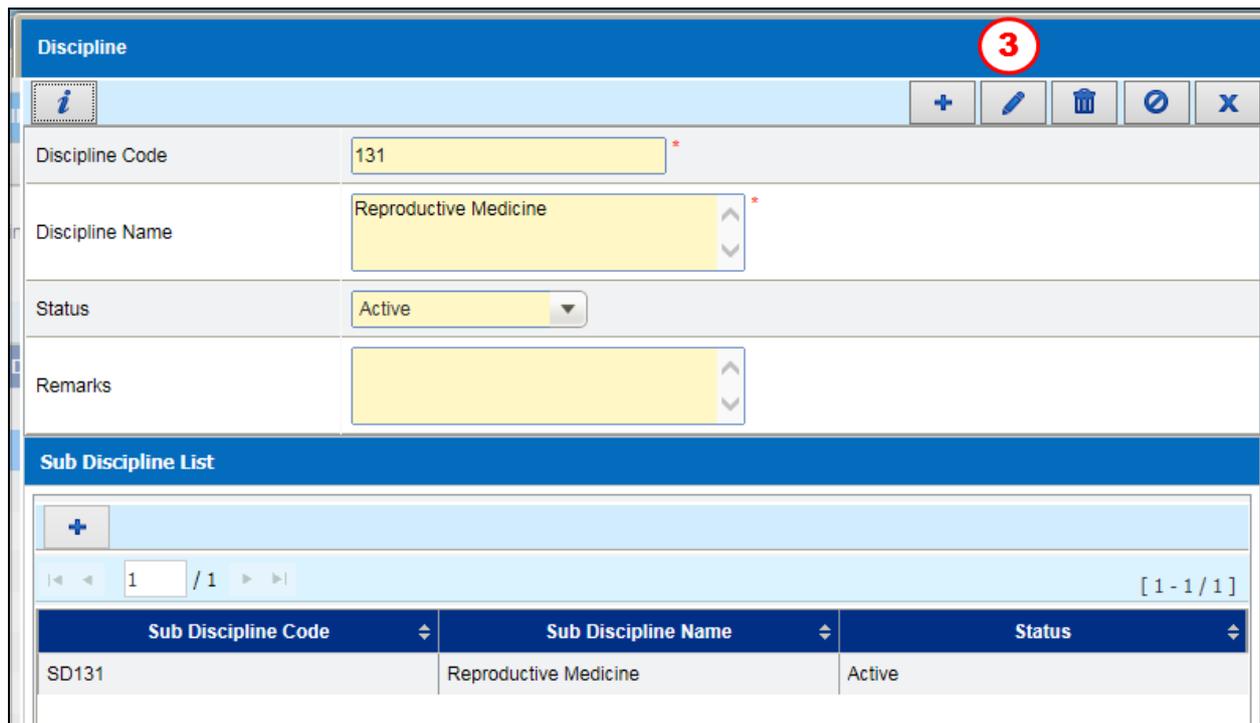
Figure 3.11.2-1 Discipline and Sub Discipline Listing Page

#### STEP 1

Click on the Maintenance menu followed by click on the Pharmacy and click on Discipline & Sub-Discipline sub menu

#### STEP 2

Click on the selected record



**Discipline**

Discipline Code  \*

Discipline Name  \*

Status

Remarks

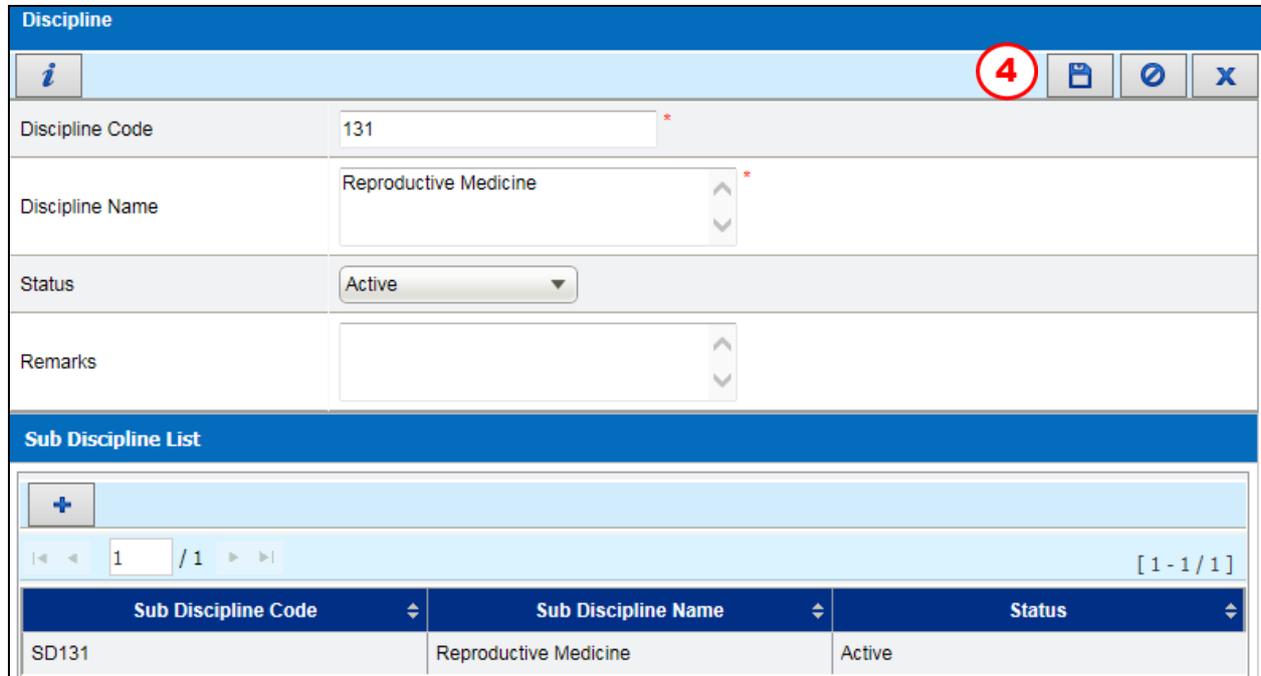
**Sub Discipline List**

| Sub Discipline Code | Sub Discipline Name   | Status |
|---------------------|-----------------------|--------|
| SD131               | Reproductive Medicine | Active |

Figure 3.11.2-2 Discipline and Sub Discipline

### STEP 3

Click on the  button to edit the record



**Discipline**

Discipline Code: 131 \*

Discipline Name: Reproductive Medicine \*

Status: Active

Remarks:

**Sub Discipline List**

1 / 1 [ 1 - 1 / 1 ]

| Sub Discipline Code | Sub Discipline Name   | Status |
|---------------------|-----------------------|--------|
| SD131               | Reproductive Medicine | Active |

Figure 3.11.2-3 Discipline and Sub Discipline

### Note

User is allowing to edit:

- **Discipline Code**
- **Discipline Name**
- **Status**
- **Remarks**
- **Add Sub Discipline**

### STEP 4

Click on the  button to save the edited record

### Note

- System will display a Confirmation Message as Figure 3.11.2-4

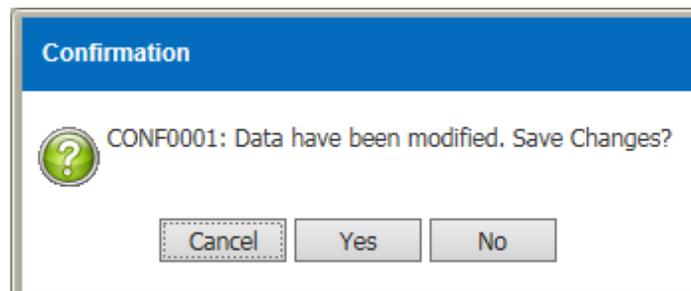
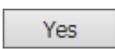
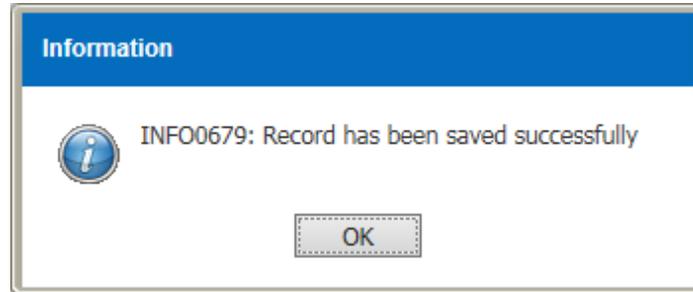


Figure 3.11.2-4 Confirmation Message

- Click on the  button to save the edited record

- Information Message will display after click on the  button as Figure 3.11.2-5

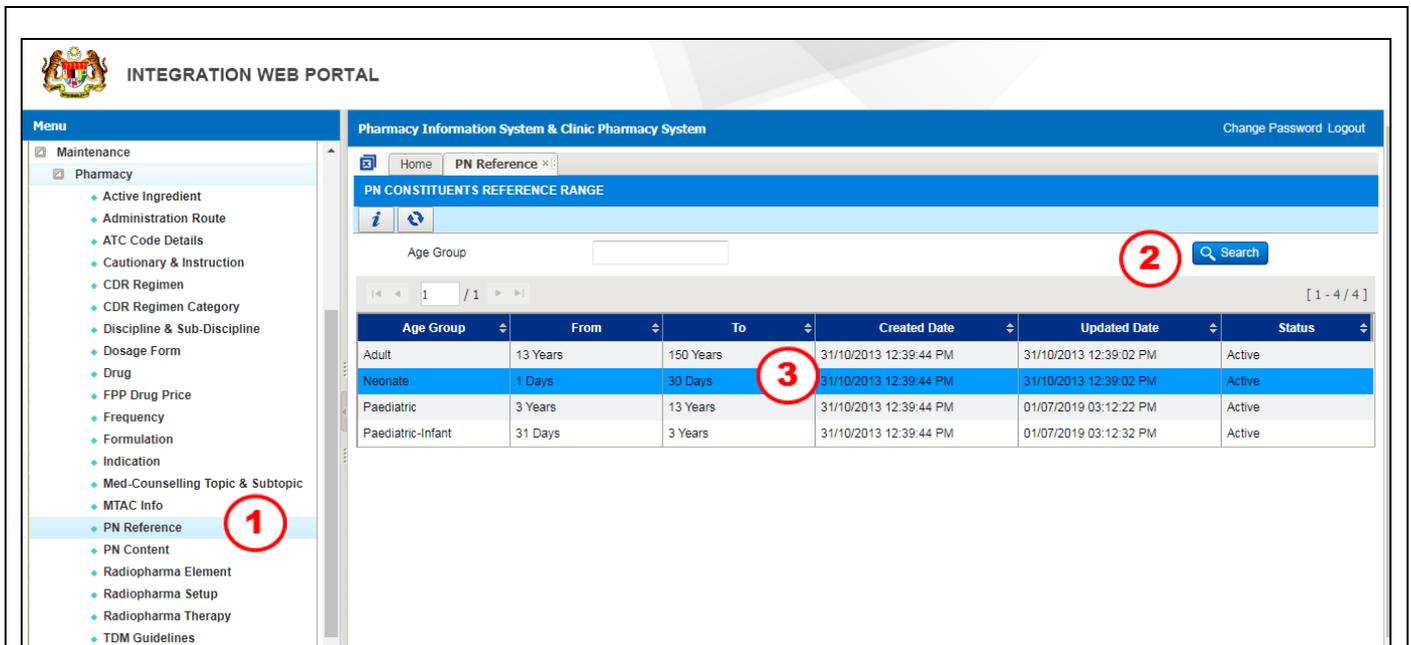


**Figure 3.11.2-5 Information Message**

- Click on the  button to confirmed the edited record

### 3.12 PN Constituents Reference Range

To view and modify PN Constituents Reference Range records, perform step below:



| Age Group         | From     | To        | Created Date           | Updated Date           | Status |
|-------------------|----------|-----------|------------------------|------------------------|--------|
| Adult             | 13 Years | 150 Years | 31/10/2013 12:39:44 PM | 31/10/2013 12:39:02 PM | Active |
| Neonate           | 1 Days   | 30 Days   | 31/10/2013 12:39:44 PM | 31/10/2013 12:39:02 PM | Active |
| Paediatric        | 3 Years  | 13 Years  | 31/10/2013 12:39:44 PM | 01/07/2019 03:12:22 PM | Active |
| Paediatric-Infant | 31 Days  | 3 Years   | 31/10/2013 12:39:44 PM | 01/07/2019 03:12:32 PM | Active |

Figure 3.12-1 PN Constituents Reference Range Listing Page

#### STEP 1

Click on the Pharmacy menu followed by click on the PN Reference sub menu.

#### STEP 2

Click on the  button and system will display related record

#### STEP 3

Double click on record and system will display Constituents Reference Range screen as Figure 3.12-2

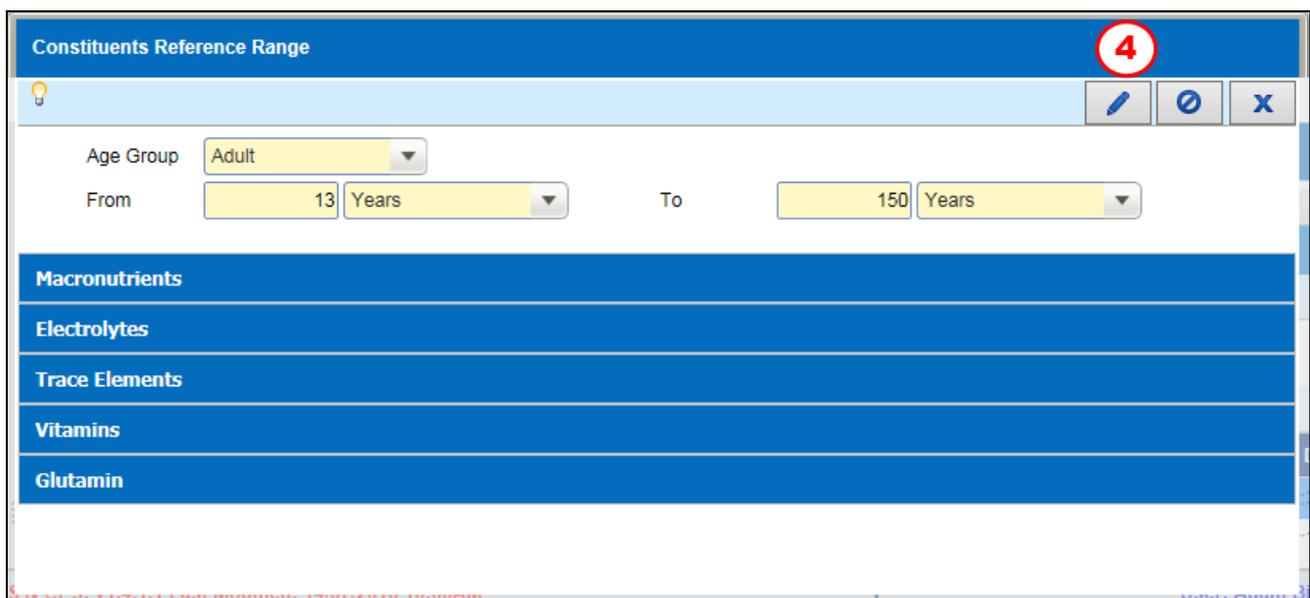


Figure 3.12-2 Constituents Reference Range

**STEP 4**

Click on the  button to edit the record

**Note**

There are 4 section which user can edit:

**a) Macronutrients**

| Macronutrients |     |                                  |  |
|----------------|-----|----------------------------------|--|
| Protein        | Min | <input type="text" value="0.5"/> | Max <input type="text" value="2"/> Avg <input type="text" value="1.25"/> |
| Carbohydrate   | Min | <input type="text" value="3"/>   | Max <input type="text" value="5"/> Avg <input type="text" value="4"/>    |
| Lipid          | Min | <input type="text" value="0.5"/> | Max <input type="text" value="2"/> Avg <input type="text" value="1.25"/> |

**Figure 3.12-3 Macronutrients**

- User is allowing to edit:
  - **Protein**
  - **Carbohydrate**
  - **Lipid**

**b) Electrolytes**

| Electrolytes |     |                                   |   |
|--------------|-----|-----------------------------------|---|
| Sodium       | Min | <input type="text" value="1"/>    | Max <input type="text" value="2"/> Avg <input type="text" value="1.5"/>     |
| Potassium    | Min | <input type="text" value="0.7"/>  | Max <input type="text" value="1.5"/> Avg <input type="text" value="1.1"/>   |
| Chloride     | Min | <input type="text" value="1.3"/>  | Max <input type="text" value="2"/> Avg <input type="text" value="1.65"/>    |
| Acetate      | Min | <input type="text" value="0"/>    | Max <input type="text" value="0"/> Avg <input type="text" value="0"/>       |
| Phosphate    | Min | <input type="text" value="0.5"/>  | Max <input type="text" value="0.7"/> Avg <input type="text" value="0.6"/>   |
| Magnesium    | Min | <input type="text" value="0.05"/> | Max <input type="text" value="0.15"/> Avg <input type="text" value="0.1"/>  |
| Calcium      | Min | <input type="text" value="0.1"/>  | Max <input type="text" value="0.15"/> Avg <input type="text" value="0.12"/> |

**Figure 3.12-4 Electrolytes**

- User is allow to edit:
  - **Sodium**
  - **Potassium**
  - **Chloride**
  - **Acetate**
  - **Phosphate**
  - **Magnesium**
  - **Calcium**

**c) Trace Elements**

| Trace Elements         |     |                                |  |
|------------------------|-----|--------------------------------|--|
| Trace Element Solution | Min | <input type="text" value="0"/> | Max <input type="text" value="10"/> Avg <input type="text" value="5"/> |

**Figure 3.12-5 Trace Elements**

- User is allowing to edit **Trace Element Solution**

**d) Vitamins**

| Vitamins         |     |                                |  |
|------------------|-----|--------------------------------|--|
| Vitamin Solution | Min | <input type="text" value="0"/> | Max <input type="text" value="10"/> Avg <input type="text" value="5"/> |
| Fat Soluble      | Min | <input type="text" value="0"/> | Max <input type="text" value="10"/> Avg <input type="text" value="5"/> |
| Water Soluble    | Min | <input type="text" value="0"/> | Max <input type="text" value="10"/> Avg <input type="text" value="5"/> |

**Figure 3.12-6 Vitamins**

- User is allowing to edit:
  - **Vitamin Solution**
  - **Fat Soluble**
  - **Water Soluble**

**e) Glutamin**

| Glutamin |     |                                  |   |
|----------|-----|----------------------------------|---|
| Glutamin | Min | <input type="text" value="1.5"/> | Max <input type="text" value="2.5"/> Avg <input type="text" value="2"/> |

**Figure 3.12-7 Glutamin**

- User is allow to edit **Glutamin**

**Constituents Reference Range**

5   

Age Group:

From:   To:

- Macronutrients**
- Electrolytes**
- Trace Elements**
- Vitamins**
- Glutamin**

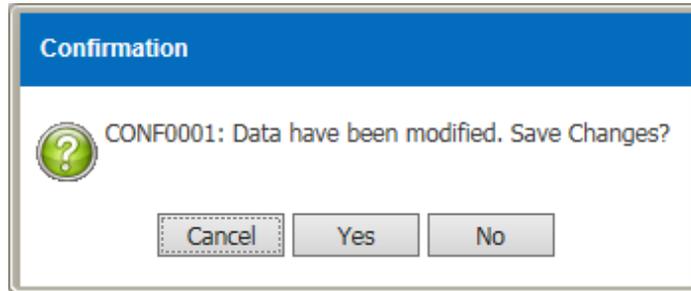
**Figure 3.12-8 Constituents Reference Range**

**STEP 5**

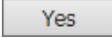
Click on the  button to save the edited record

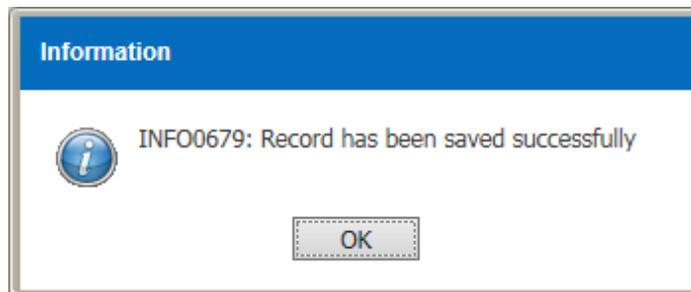
**Note**

- System will display a Confirmation Message as Figure 3.12-9



**Figure 3.12-9 Confirmation Message**

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.12-10

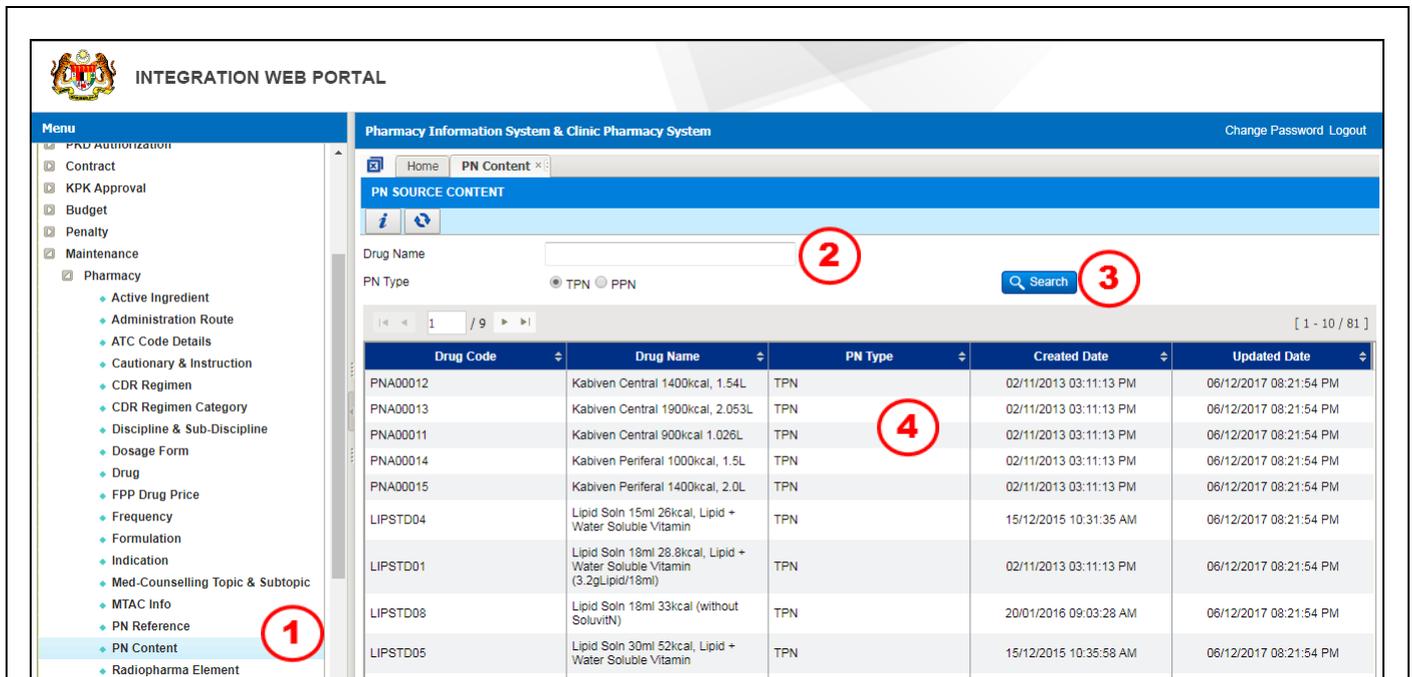


**Figure 3.12-10 Information Message**

- Click on the  button to confirmed the edited record

### 3.13 PN Source Content

To create and modify PN Source Content records, perform step below:



| Drug Code | Drug Name   | PN Type | Created Date           | Updated Date           |
|-----------|---|---------|------------------------|------------------------|
| PNA00012  | Kabiven Central 1400kcal, 1.54L   | TPN     | 02/11/2013 03:11:13 PM | 06/12/2017 08:21:54 PM |
| PNA00013  | Kabiven Central 1900kcal, 2.053L  | TPN     | 02/11/2013 03:11:13 PM | 06/12/2017 08:21:54 PM |
| PNA00011  | Kabiven Central 900kcal 1.026L  | TPN     | 02/11/2013 03:11:13 PM | 06/12/2017 08:21:54 PM |
| PNA00014  | Kabiven Periferal 1000kcal, 1.5L  | TPN     | 02/11/2013 03:11:13 PM | 06/12/2017 08:21:54 PM |
| PNA00015  | Kabiven Periferal 1400kcal, 2.0L  | TPN     | 02/11/2013 03:11:13 PM | 06/12/2017 08:21:54 PM |
| LIPSTD04  | Lipid Soln 15ml 26kcal, Lipid + Water Soluble Vitamin                     | TPN     | 15/12/2015 10:31:35 AM | 06/12/2017 08:21:54 PM |
| LIPSTD01  | Lipid Soln 18ml 28.8kcal, Lipid + Water Soluble Vitamin (3.2g/Lipid/18ml) | TPN     | 02/11/2013 03:11:13 PM | 06/12/2017 08:21:54 PM |
| LIPSTD08  | Lipid Soln 18ml 33kcal (without SoluvitN)                                 | TPN     | 20/01/2016 09:03:28 AM | 06/12/2017 08:21:54 PM |
| LIPSTD05  | Lipid Soln 30ml 52kcal, Lipid + Water Soluble Vitamin                     | TPN     | 15/12/2015 10:35:58 AM | 06/12/2017 08:21:54 PM |

Figure 3.13-1 PN Source Content Listing Page

#### STEP 1

Go to Maintenance menu follow by Pharmacy menu and click on the PN Source Content sub menu.

#### STEP 2

Search existing record by

- **Drug Name**
- **PN Type**

#### Note

There are two **PN Type**

- TPN** : Total Parenteral Nutrition
- PPN** : Peripheral Parenteral Nutrition

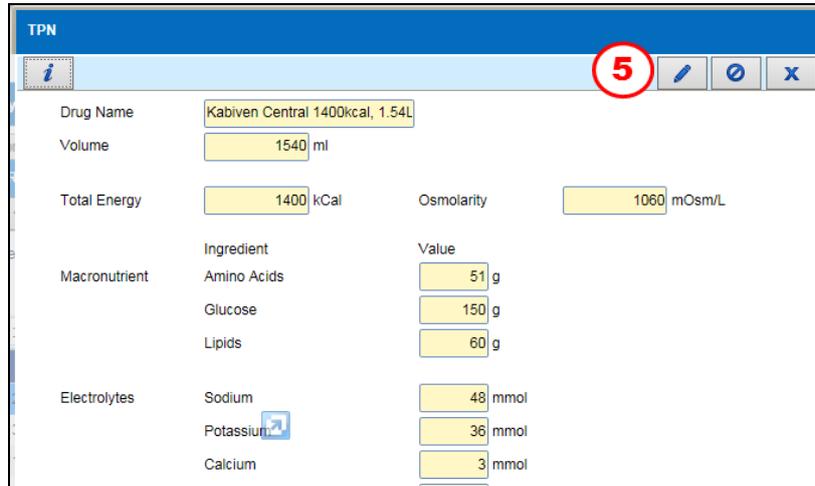
#### STEP 3

Click on the  button and system will display related record

#### STEP 4

Double click on record and system will display PN Dialog screen.

a) TPN

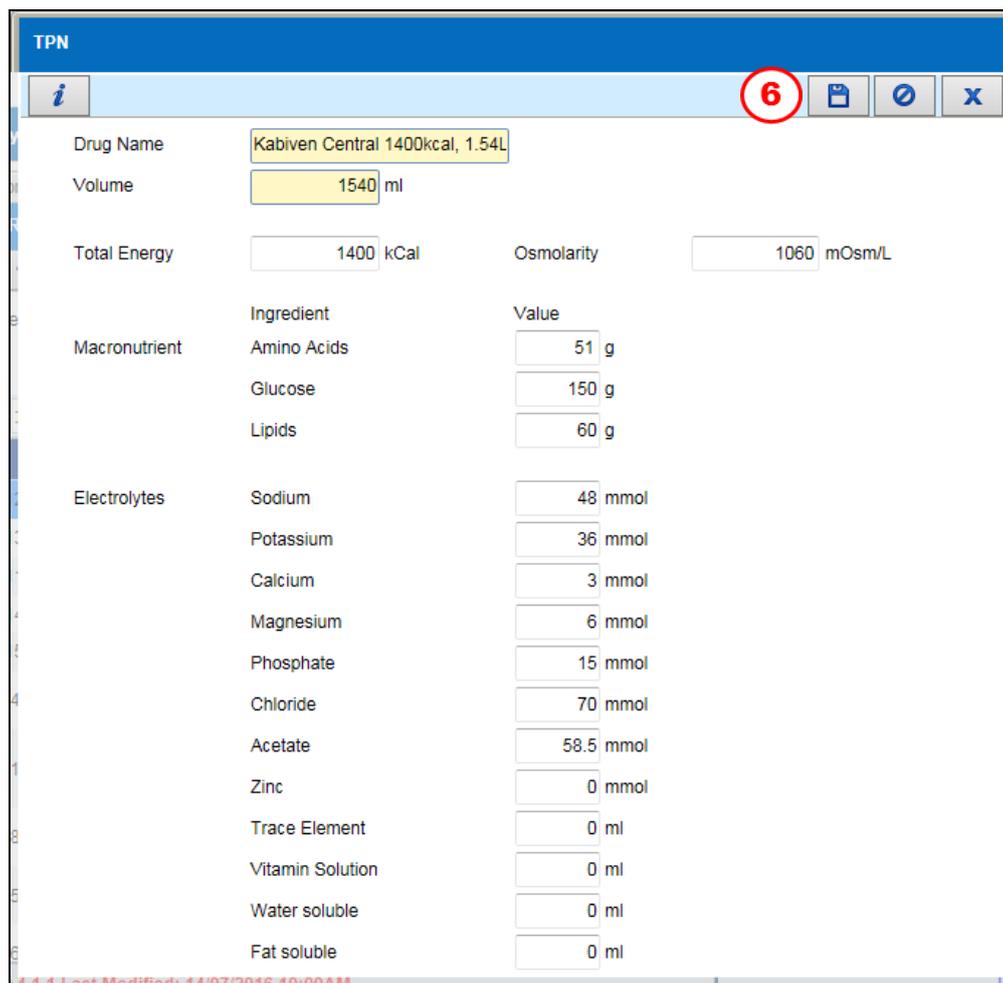


| TPN           |                                 |                        |
|---------------|---------------------------------|------------------------|
| Drug Name     | Kabiven Central 1400kcal, 1.54L |                        |
| Volume        | 1540 ml                         |                        |
| Total Energy  | 1400 kCal                       | Osmolarity 1060 mOsm/L |
| Macronutrient | Ingredient                      | Value                  |
|               | Amino Acids                     | 51 g                   |
|               | Glucose                         | 150 g                  |
|               | Lipids                          | 60 g                   |
| Electrolytes  | Sodium                          | 48 mmol                |
|               | Potassium                       | 36 mmol                |
|               | Calcium                         | 3 mmol                 |
|               |                                 |                        |

Figure 3.13-2 TPN

STEP 5

Click on the  button to edit the record



| TPN           |                                 |                        |
|---------------|---------------------------------|------------------------|
| Drug Name     | Kabiven Central 1400kcal, 1.54L |                        |
| Volume        | 1540 ml                         |                        |
| Total Energy  | 1400 kCal                       | Osmolarity 1060 mOsm/L |
| Macronutrient | Ingredient                      | Value                  |
|               | Amino Acids                     | 51 g                   |
|               | Glucose                         | 150 g                  |
|               | Lipids                          | 60 g                   |
| Electrolytes  | Sodium                          | 48 mmol                |
|               | Potassium                       | 36 mmol                |
|               | Calcium                         | 3 mmol                 |
|               | Magnesium                       | 6 mmol                 |
|               | Phosphate                       | 15 mmol                |
|               | Chloride                        | 70 mmol                |
|               | Acetate                         | 58.5 mmol              |
|               | Zinc                            | 0 mmol                 |
|               | Trace Element                   | 0 ml                   |
|               | Vitamin Solution                | 0 ml                   |
|               | Water soluble                   | 0 ml                   |
|               | Fat soluble                     | 0 ml                   |

Figure 3.13-3 TPN

**Note**

User is allowing to edit:

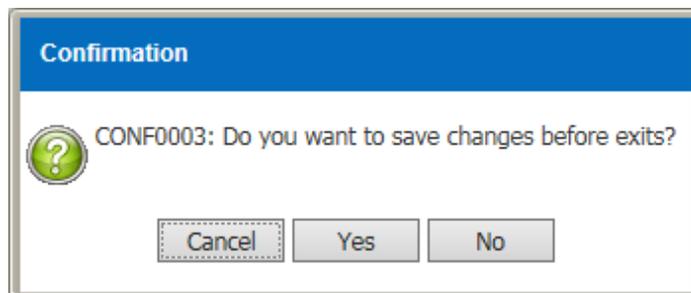
- **Total Energy**
- **Osmolarity**
- **Macronutrient**
  - **Amino Acids**
  - **Glucose**
  - **Lipids**
- **Electrolytes**
  - **Sodium**
  - **Potassium**
  - **Calcium**
  - **Magnesium**
  - **Phosphate**
  - **Chloride**
  - **Acetate**
  - **Zink**
  - **Trace Elements**
  - **Vitamin Solution**
  - **Water Soluble**
  - **Fat Soluble**

**STEP 6**

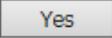
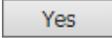
Click on the  button to save the edited record

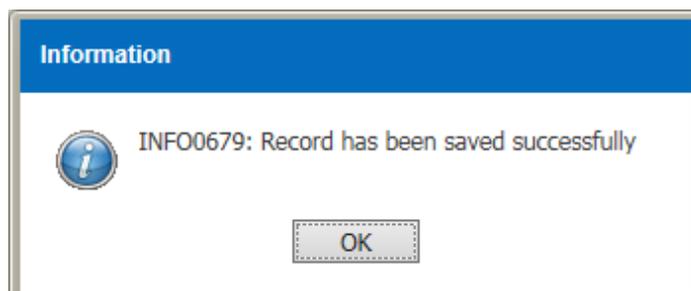
**Note**

- System will display a Confirmation Message as Figure 3.13-4



**Figure 3.13-4 Confirmation Message**

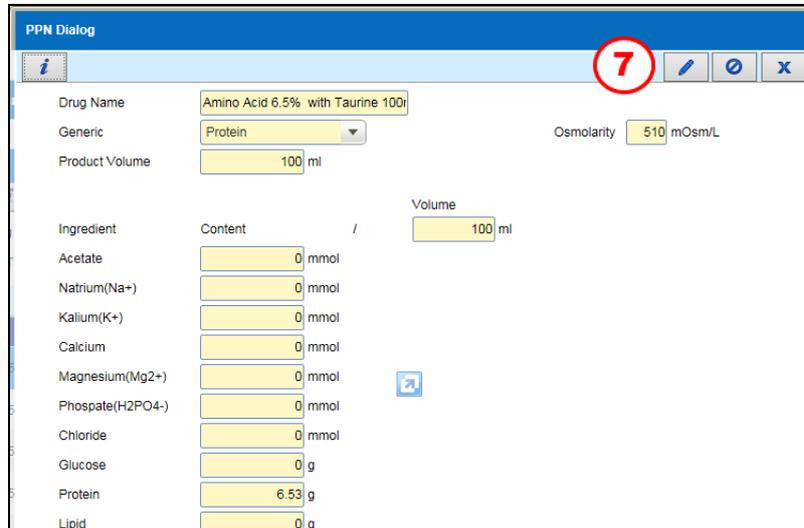
- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.13-5



**Figure 3.13-5 Information Message**

- Click on the  button to confirmed the edited record

a) PPN



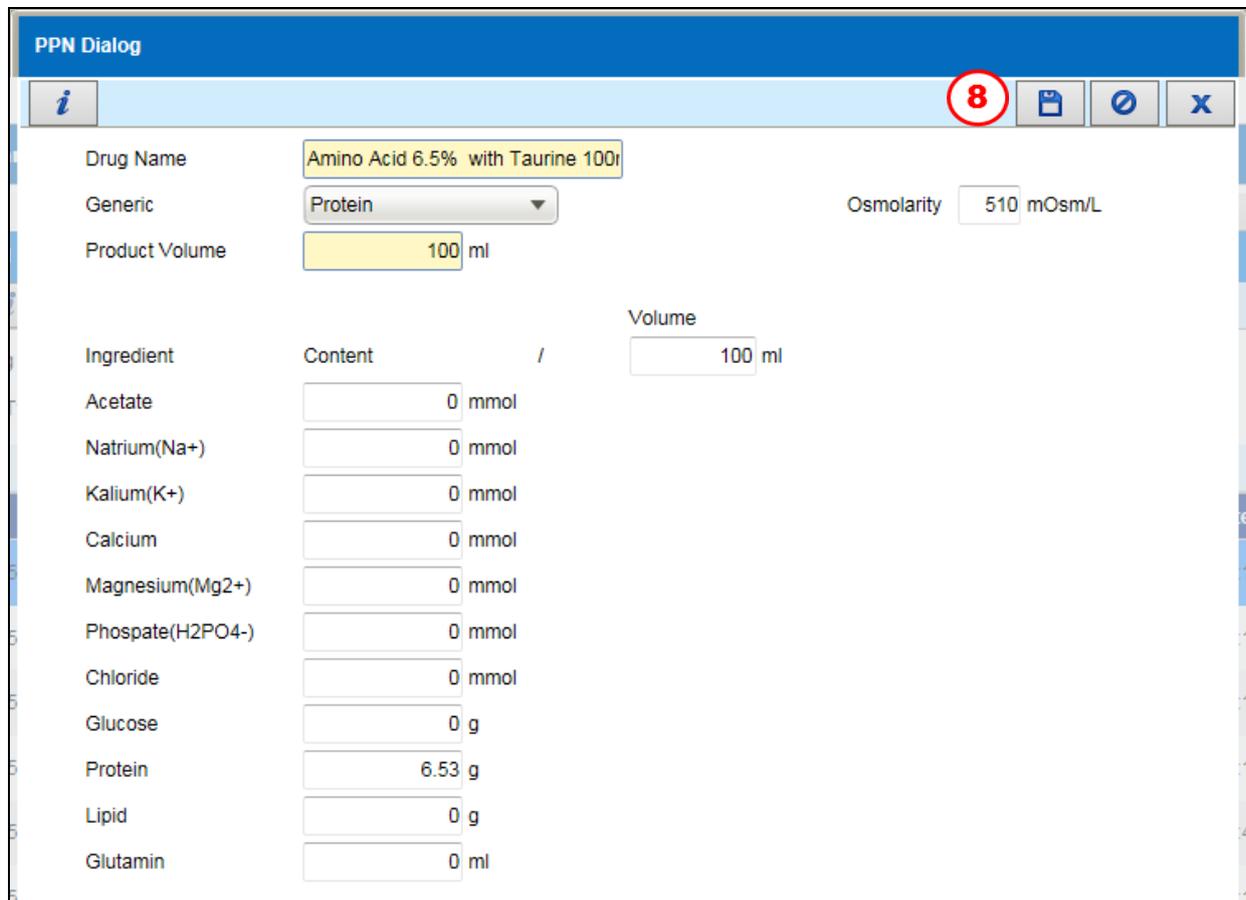
The screenshot shows the 'PPN Dialog' window with the following data:

|                  |                                   |                       |
|------------------|-----------------------------------|-----------------------|
| Drug Name        | Amino Acid 6.5% with Taurine 100r |                       |
| Generic          | Protein                           | Osmolarity 510 mOsm/L |
| Product Volume   | 100 ml                            |                       |
| Ingredient       | Content                           | Volume                |
| Acetate          | 0 mmol                            | 100 ml                |
| Natrium(Na+)     | 0 mmol                            |                       |
| Kalium(K+)       | 0 mmol                            |                       |
| Calcium          | 0 mmol                            |                       |
| Magnesium(Mg2+)  | 0 mmol                            |                       |
| Phospate(H2PO4-) | 0 mmol                            |                       |
| Chloride         | 0 mmol                            |                       |
| Glucose          | 0 g                               |                       |
| Protein          | 6.53 g                            |                       |
| Lipid            | 0 g                               |                       |

Figure 3.13-6 PPN Dialog

STEP 7

Click on the  button to edit the record



The screenshot shows the 'PPN Dialog' window with the following data:

|                  |                                   |                       |
|------------------|-----------------------------------|-----------------------|
| Drug Name        | Amino Acid 6.5% with Taurine 100r |                       |
| Generic          | Protein                           | Osmolarity 510 mOsm/L |
| Product Volume   | 100 ml                            |                       |
| Ingredient       | Content                           | Volume                |
| Acetate          | 0 mmol                            | 100 ml                |
| Natrium(Na+)     | 0 mmol                            |                       |
| Kalium(K+)       | 0 mmol                            |                       |
| Calcium          | 0 mmol                            |                       |
| Magnesium(Mg2+)  | 0 mmol                            |                       |
| Phospate(H2PO4-) | 0 mmol                            |                       |
| Chloride         | 0 mmol                            |                       |
| Glucose          | 0 g                               |                       |
| Protein          | 6.53 g                            |                       |
| Lipid            | 0 g                               |                       |
| Glutamin         | 0 ml                              |                       |

Figure 3.13-7 PPN Dialog

**Note**

User is allowing to edit:

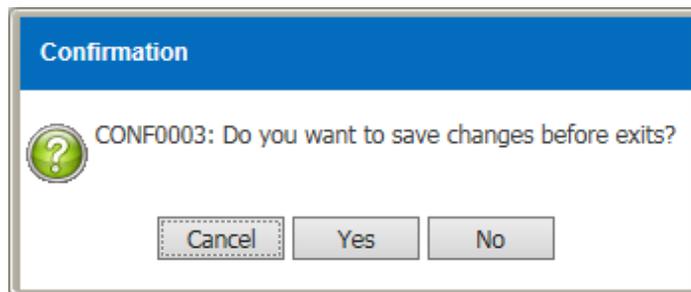
- **Generic**
- **Osmolarity**
- **Acetate**
- **Natrium(Na+)**
- **Kalium(K+)**
- **Calcium**
- **Magnesium(Mg2+)**
- **Phospate(H2PO4-)**
- **Chloride**
- **Glucose**
- **Protein**
- **Lipid**
- **Glutamin**

**STEP 8**

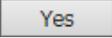
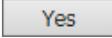
Click on the  button to save the edited record

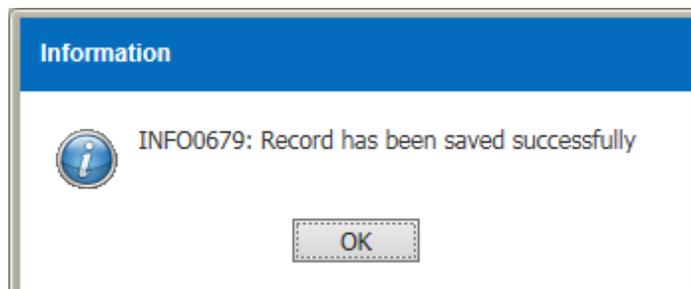
**Note**

- System will display a Confirmation Message as Figure 3.13-8



**Figure 3.13-8 Confirmation Message**

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.13-9



**Figure 3.13-9 Information Message**

Click on the  button to confirmed the edited record

### 3.14 Radiopharma Therapy

#### 3.14.1 Create New Radiopharma Therapy

To create new record for Radiopharma Therapy, perform the steps below:

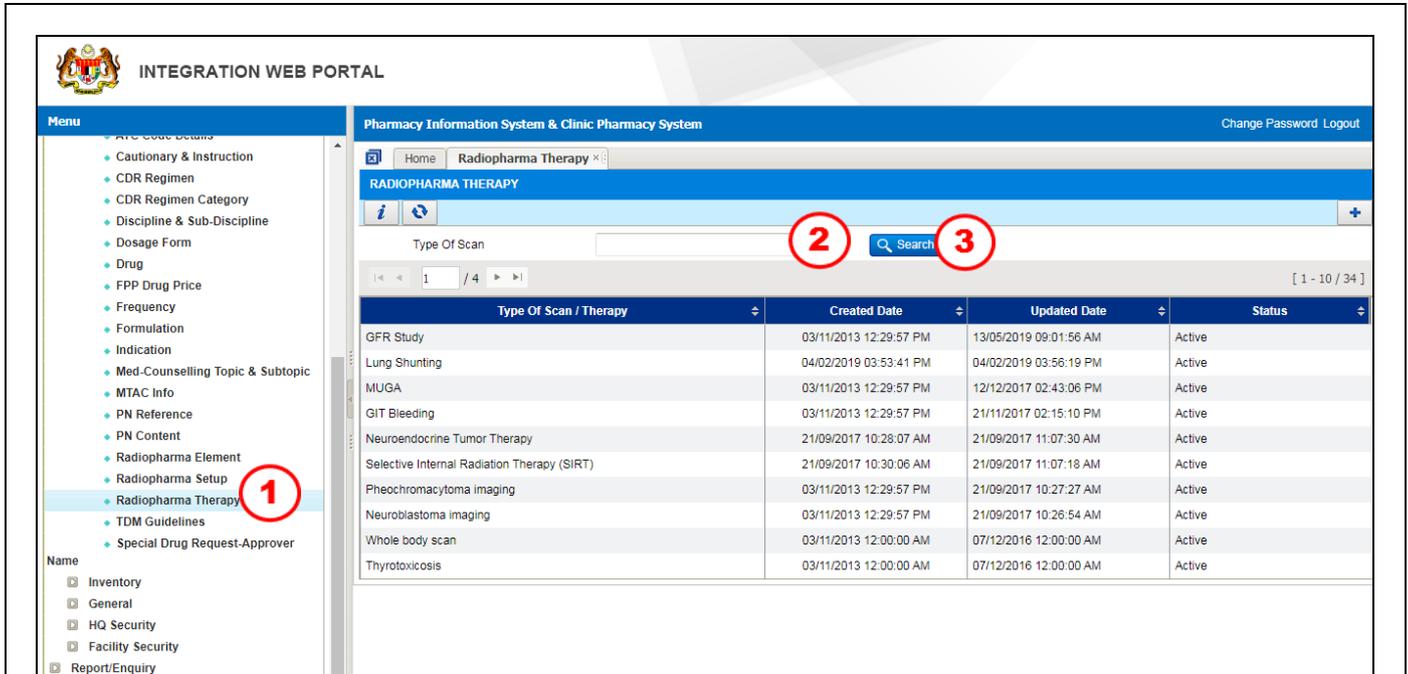


Figure 3.14.1-1 Therapy Linked Radiopharma Listing Page

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Radiopharma Therapy'

#### STEP 2

Search existing record by entering *Type Of Scan*

#### STEP 3

Click on the Search button and system will display the related record

#### Note

User is allowing to view the information by click on the related record and information will be displayed as Figure 3.14.1-2

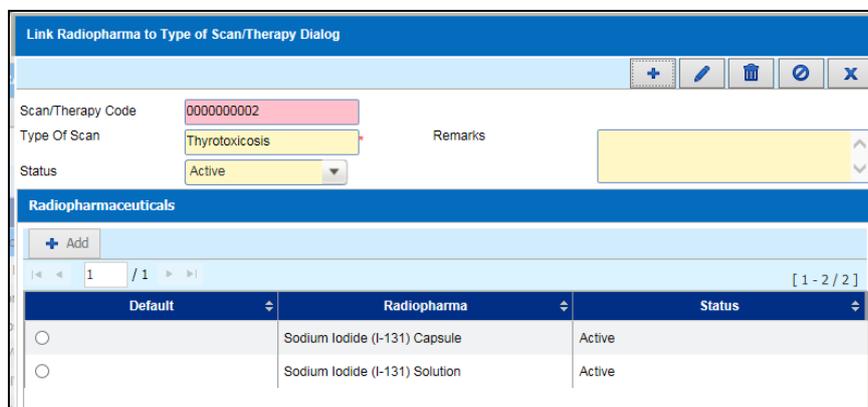


Figure 3.14.1-2 Link Radiopharma to Type of Scan/Therapy Dialog

**Note**

Click on the button to close the screen

INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Therapy linked Radiopharma

THERAPY LINKED RADIOPHARMA

Type Of Scan  Search

1 / 4 [ 1 - 10 / 31 ]

| Type Of Scan / Therapy                         | Created Date           | Updated Date           | Status |
|--|------------------------|------------------------|--------|
| Whole body scan                                | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Thyrotoxicosis                                 | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Ablation                                       | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Dacryoscintigraphy                             | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Lung VQ Ventilation                            | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Meckel's Imaging                               | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Parathyroid Imaging                            | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Thyroid Imaging                                | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Lymphoscintigraphy                             | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Localization of inflammatory lesion (WBC Scan) | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |

Figure 3.14.1-3 Therapy Linked Radiopharma

**STEP 4**

Click on the button to create a new record and Link Radiopharma to Type of Scan/Therapy Dialog will be displayed as Figure 3.14.1-4

Link Radiopharma to Type of Scan/Therapy Dialog

Scan/Therapy Code

Type Of Scan  Remarks

Status

Radiopharmaceuticals

+ Add

1 / 1

| Default           | Radiopharma | Status |
|-------------------|-------------|--------|
| No Records Found! |             |        |

Figure 3.14.1-4 Link Radiopharma to Type of Scan/Therapy Dialog

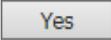
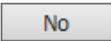
**STEP 5**

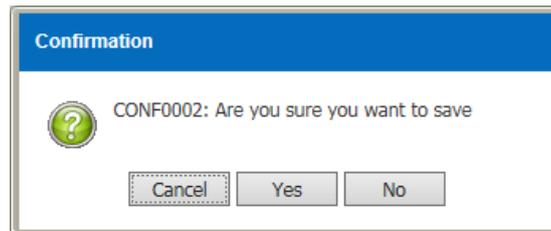
Enter *Type Of Scan*

**STEP 6**

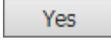
Click on the button to save the record

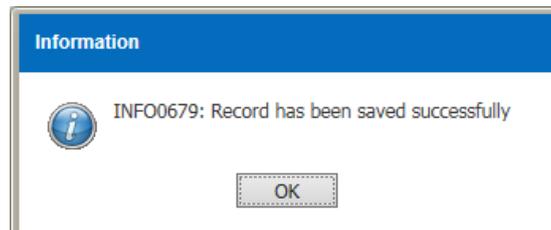
**Note**

- System will display a Confirmation Message as Figure 3.14.1-5
- Click on the  button to save the transaction
- Click on the  or  button to cancel the saved record



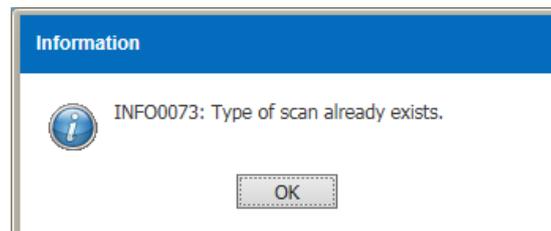
**Figure 3.14.1-5 Confirmation Message**

- Information Message will display after click on the  button as Figure 3.14.1-6
- Click on the  button to confirmed the save transaction and Scan/Therapy Code will generated for future reference



**Figure 3.14.1-6 Information Message**

- System will display an Information Message if **Type Of Scan** already exists as Figure 3.14.1-7



**Figure 3.14.1-7 Information Message**

- Click on the  button

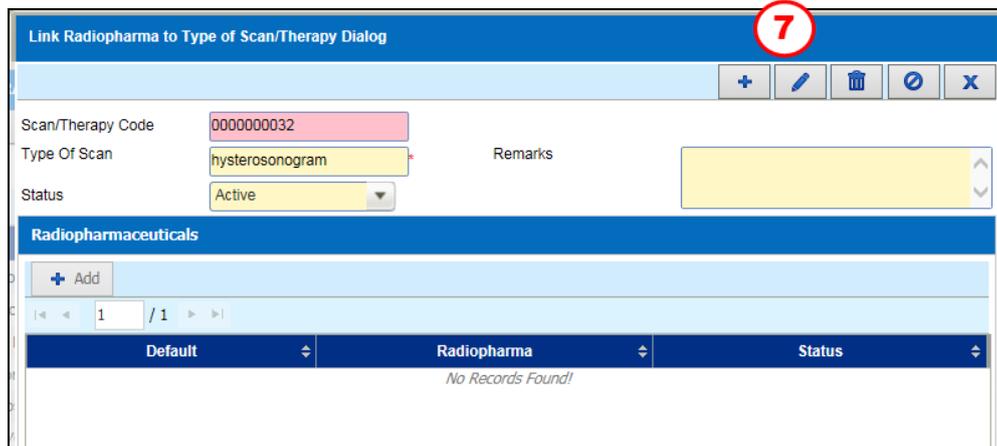


Figure 3.14.1-8 Link Radiopharma to Type of Scan/therapy Dialog

**STEP 7**

Click on the  button to edit the record

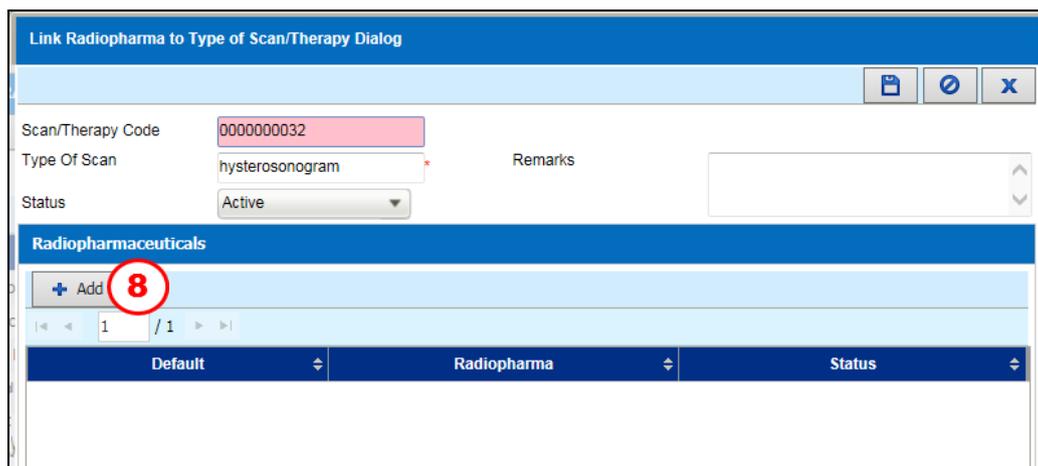


Figure 3.14.1-9 Link Radiopharma to Type of Scan/therapy Dialog

**STEP 8**

Click on the  button and Radiopharmaceuticals screen will be display as Figure 3.14.1-10

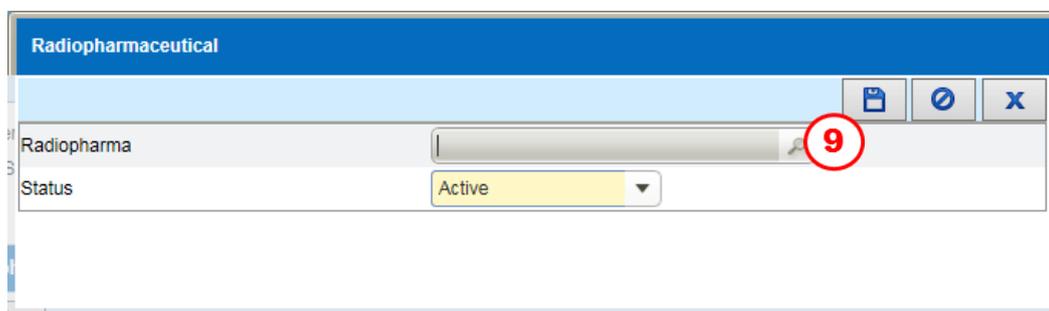
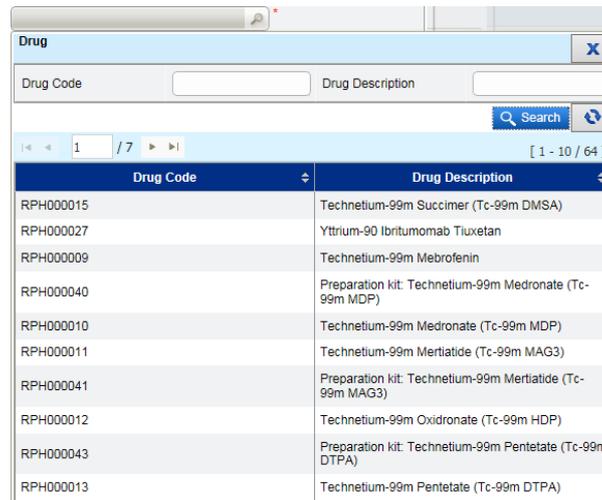


Figure 3.14.1-10 Radiopharmaceutical

**STEP 9**

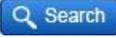
Click on the **Radiopharma**  and Drug window will be displayed as Figure 3.14.1-11



| Drug Code | Drug Description   |
|-----------|--|
| RPH000015 | Technetium-99m Succimer (Tc-99m DMSA)                    |
| RPH000027 | Yttrium-90 Ibritumomab Tiuxetan                          |
| RPH000009 | Technetium-99m Mebroferin                                |
| RPH000040 | Preparation kit: Technetium-99m Medronate (Tc-99m MDP)   |
| RPH000010 | Technetium-99m Medronate (Tc-99m MDP)                    |
| RPH000011 | Technetium-99m Mertiotide (Tc-99m MAG3)                  |
| RPH000041 | Preparation kit: Technetium-99m Mertiotide (Tc-99m MAG3) |
| RPH000012 | Technetium-99m Oxidronate (Tc-99m HDP)                   |
| RPH000043 | Preparation kit: Technetium-99m Pentetate (Tc-99m DTPA)  |
| RPH000013 | Technetium-99m Pentetate (Tc-99m DTPA)                   |

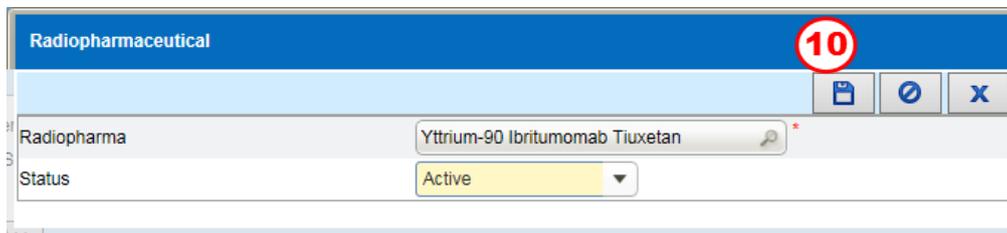
Figure 3.14.1-11 Drug

**Note**

- User is allowed to enter partially or fully searching criteria for **Drug Code** and **Drug Description**. Then click on the  button

**Note**

- Double click on the selected **Drug Code**



**Radiopharmaceutical**

Radiopharma: Yttrium-90 Ibritumomab Tiuxetan

Status: Active

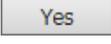
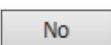
**10**

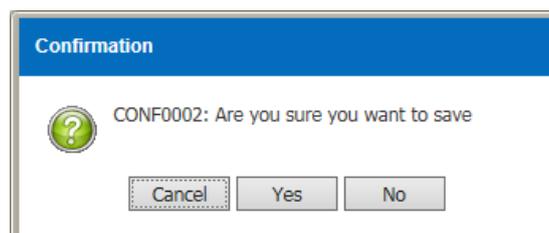
Figure 3.14.1-12 Radiopharmaceutical

**STEP 10**

Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.14.1-13
- Click on the  button to save the transaction
- Click on the  or  button to cancel the saved record



**Confirmation**

CONF0002: Are you sure you want to save



Figure 3.14.1-13 Confirmation Message

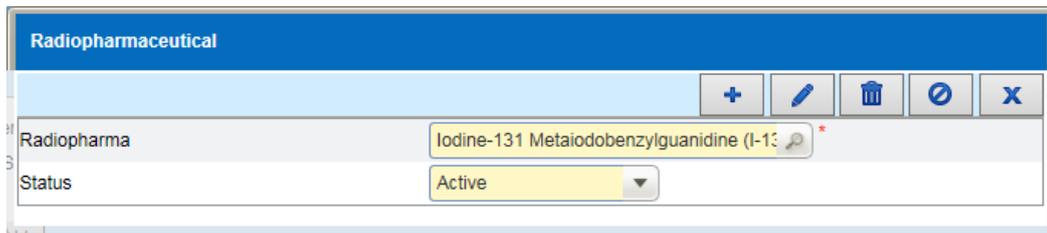


Figure 3.14.1-14 Radiopharmaceutical

**Note**

- User is allow to add more drug by click on the  button and follow **STEP 9** to **STEP 10**.
- Click on the  button to close the screen.

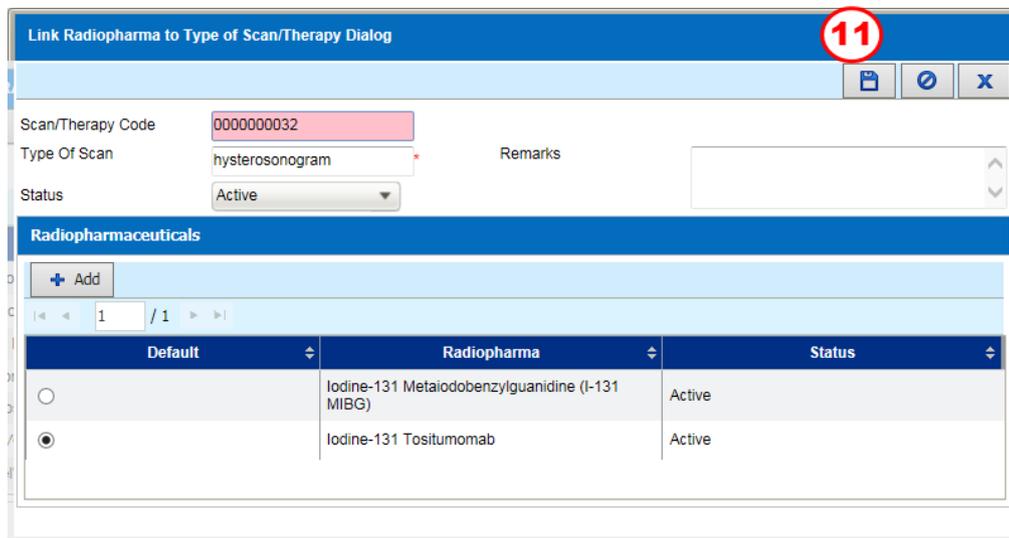


Figure 3.14.1-15 Link Radiopharma to Type of Scan/therapy Dialog

**Note**

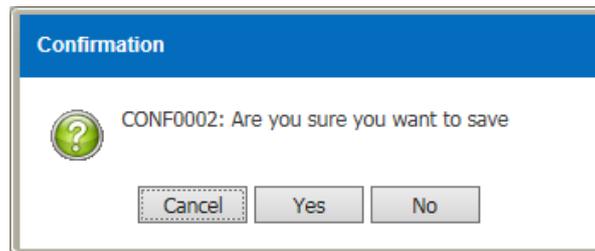
If there is more than 1 drug under Radiopharmaceuticals, user is allow to set default drug by click on  button

**STEP 11**

Click on the  button to save the record

**Note**

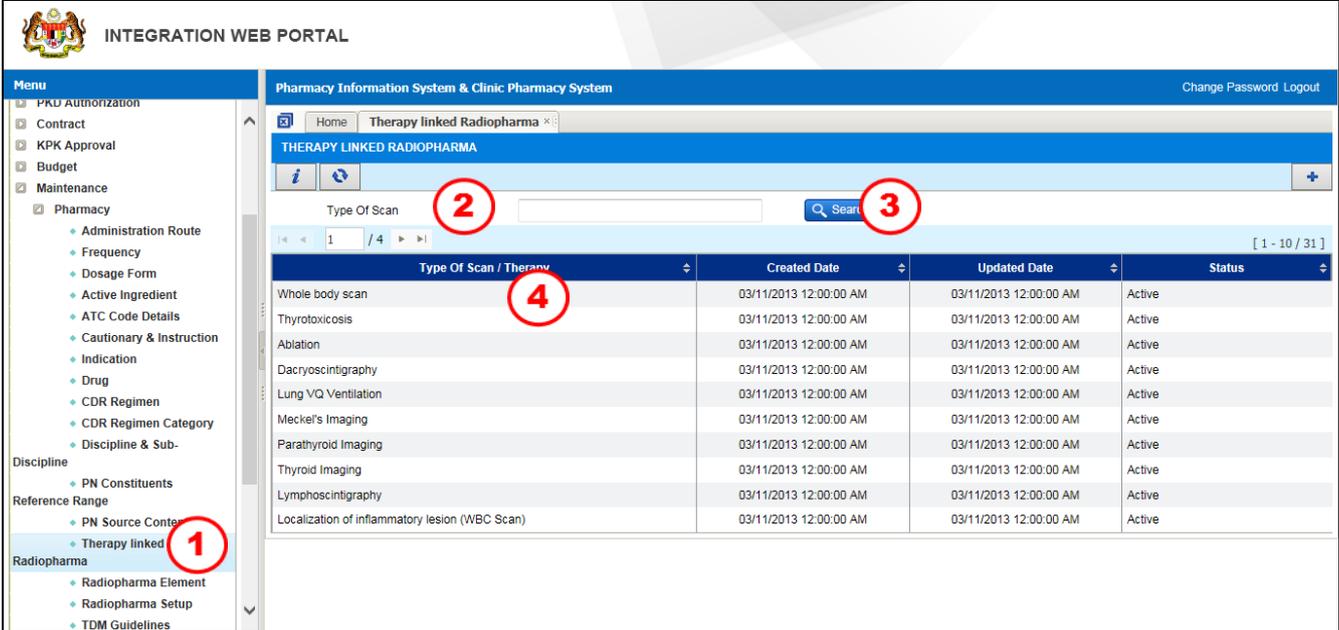
- System will display a Confirmation Message as Figure 3.14.1-16
- Click on the  button to save the record



**Figure 3.14.1-16 Confirmation Message**

### 3.14.2 Modify Radiopharma Therapy

To modify Radiopharma Therapy records, perform the steps below:



**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Home Therapy linked Radiopharma

THERAPY LINKED RADIOPHARMA

Type Of Scan  Search

| Type Of Scan / Therapy                         | Created Date           | Updated Date           | Status |
|--|------------------------|------------------------|--------|
| Whole body scan                                | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Thyrotoxicosis                                 | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Ablation                                       | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Dacryoscintigraphy                             | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Lung VQ Ventilation                            | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Meckel's Imaging                               | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Parathyroid Imaging                            | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Thyroid Imaging                                | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Lymphoscintigraphy                             | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |
| Localization of inflammatory lesion (WBC Scan) | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active |

Figure 3.14.2-1 Therapy Linked Radiopharma Listing Page

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Radiopharma Therapy'

#### STEP 2

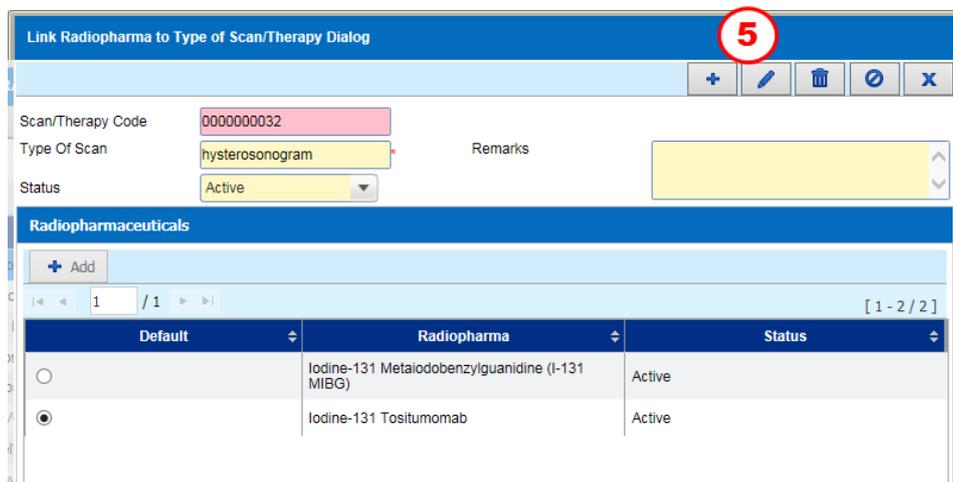
Search existing record by entering **Type Of Scan**

#### STEP 3

Click on the  button and system will display related record

#### STEP 4

Click on the selected record



Link Radiopharma to Type of Scan/Therapy Dialog

Scan/Therapy Code: 000000032

Type Of Scan: hysterosonogram

Status: Active

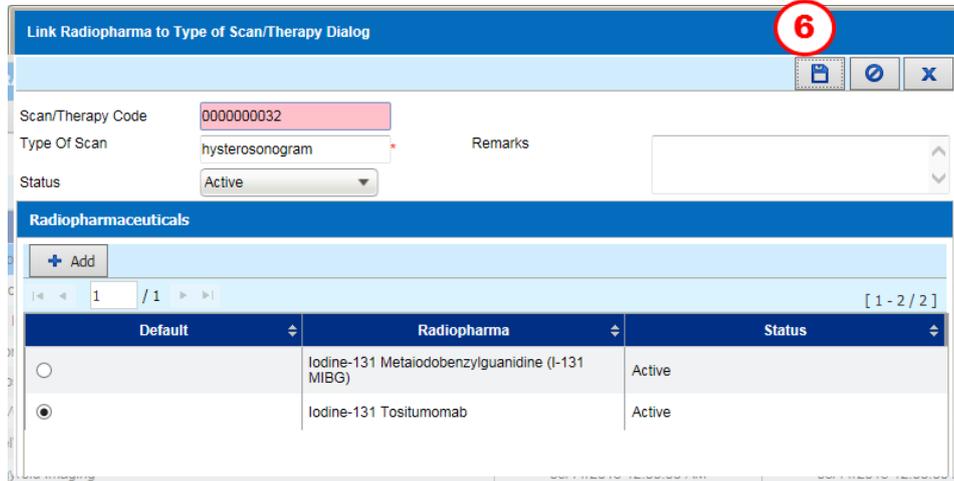
**Radiopharmaceuticals**

| Default                          | Radiopharma                                     | Status |
|----------------------------------|---|--------|
| <input type="radio"/>            | Iodine-131 Metaiodobenzylguanidine (I-131 MIBG) | Active |
| <input checked="" type="radio"/> | Iodine-131 Tosiumomab                           | Active |

Figure 3.14.2-2 Link Radiopharma to Type of Scan/Therapy Dialog

**STEP 5**

Click on the  button to edit the record



**Figure 3.14.2-3 Link Radiopharma to Type of Scan/Therapy Dialog**

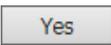
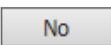
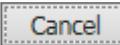
**Note**

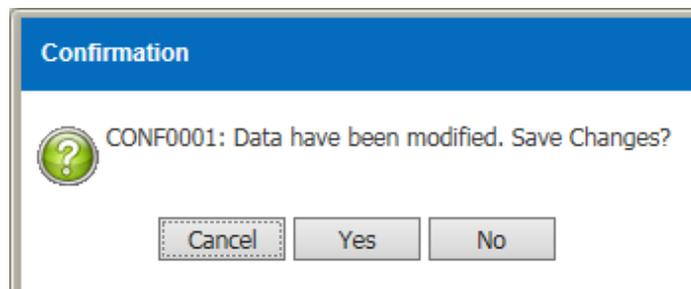
- User is allowing to edit:
  - **Type Of Scan**
  - **Status**
  - **Radiopharma Drug**

**STEP 6**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.14.2-4
- Click on the  button to save the edited record
- Click on the  or  button to cancel the edited record



**Figure 3.14.2-4 Confirmation Message**

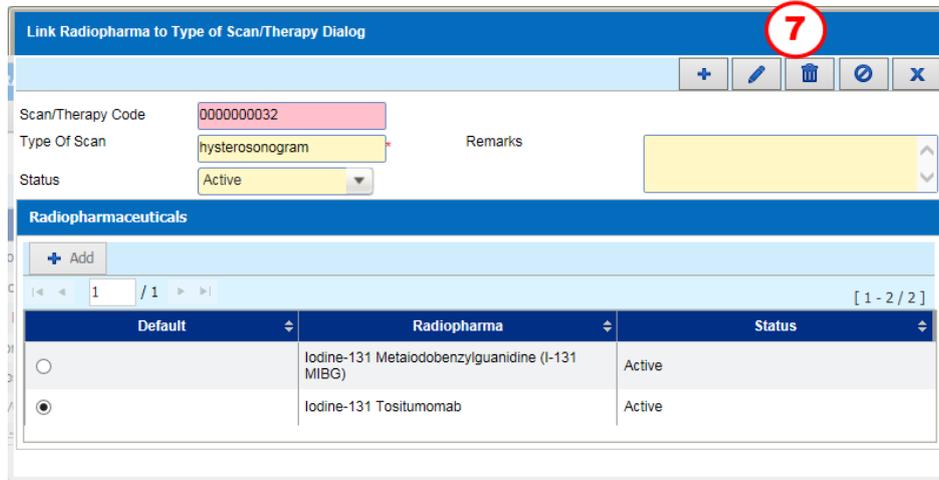
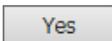


Figure 3.14.2-5 Link Radiopharma to Type of Scan/Therapy Dialog

**STEP 7**

Click on the  button to delete the record

**Note**

- System will display a Confirmation Message as Figure 3.14.2-6
- Click on the  button to delete the record

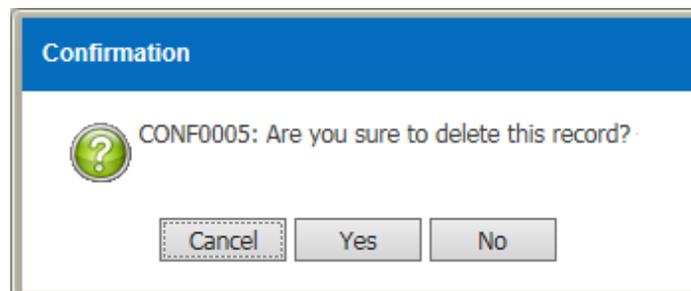


Figure 3.14.2-6 Confirmation Message

- The status of the record will be **Inactive** as figure 3.14.2-7

**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System Change Password Logout

Home Therapy linked Radiopharma

**THERAPY LINKED RADIOPHARMA**

Type Of Scan

[ 1 - 10 / 32 ]

| Type Of Scan / Therapy | Created Date           | Updated Date           | Status   |
|------------------------|------------------------|------------------------|----------|
| hysterosonogram        | 09/10/2016 12:00:00 AM | 09/10/2016 12:00:00 AM | Inactive |
| Thyrototoxicosis       | 03/11/2013 12:00:00 AM | 05/10/2016 12:00:00 AM | Active   |
| Whole body scan        | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Ablation               | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Dacryoscintigraphy     | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Lung VQ Ventilation    | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Meckel's Imaging       | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Parathyroid Imaging    | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Thyroid Imaging        | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |
| Lymphoscintigraphy     | 03/11/2013 12:00:00 AM | 03/11/2013 12:00:00 AM | Active   |

**Figure 3.14.2-7 Therapy Linked Radiopharma**

### 3.15 Radiopharma Element

#### 3.15.1 Create New Radiopharma Element

To create new record for Radiopharma Element, perform the steps below:

**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Radiopharma Element

**RADIOPHARMA ELEMENT**

Element

[ 1 - 10 / 11 ]

| Element        | Half Life | Unit    | Created Date           | Updated Date           | Status |
|----------------|-----------|---------|------------------------|------------------------|--------|
| Fluorine-18    | 109.77    | Minutes | 23/04/2018 11:18:20 AM | 23/04/2018 11:18:20 AM | Active |
| Yttrium-90     | 64.1      | Hours   | 23/04/2018 11:15:50 AM | 23/04/2018 11:15:50 AM | Active |
| Technetium-99m | 6.01      | Hours   | 03/11/2017 09:05:32 AM | 03/11/2017 09:05:32 AM | Active |
| Iodine-131     | 8.02      | Days    | 01/11/2017 04:35:05 PM | 01/11/2017 04:35:05 PM | Active |
| Rhenium-186    | 3.71      | Days    | 29/07/2016 04:05:24 PM | 29/07/2016 04:05:24 PM | Active |
| Gallium-68     | 1.13      | Hours   | 29/07/2016 04:04:21 PM | 29/07/2016 04:04:21 PM | Active |
| Gallium-67     | 3.26      | Hours   | 29/07/2016 04:04:08 PM | 29/07/2016 04:04:08 PM | Active |
| Chromium-51    | 28        | Days    | 29/07/2016 04:03:07 PM | 29/07/2016 04:03:07 PM | Active |
| Cobalt-57      | 207.9     | Days    | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active |
| Cobalt-60      | 5.27      | Years   | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active |

Figure 3.15.1-1 Radiopharma Element

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Radiopharma Element'

#### STEP 2

Search existing record by entering *Element*

#### STEP 3

Click on the  button and system will display the related record

#### Note

User is allowing to view the information by click on the related record and information will be displayed as Figure 3.15.1-2

**Radiopharma Element + Half Life**

Element

Half Life

Status

**Radiopharmaceuticals**

[ 1 - 10 / 17 ]

| Drug Description              | Status                                     |
|-------------------------------|--|
| Technetium-99m Sulfur Colloid | <input checked="" type="checkbox"/> Active |
| Technetium-99m Tetrofosmin    | <input checked="" type="checkbox"/> Active |

Figure 3.15.1-2 Radiopharma Element + Half Life

**Note**

Click on the button to close the screen

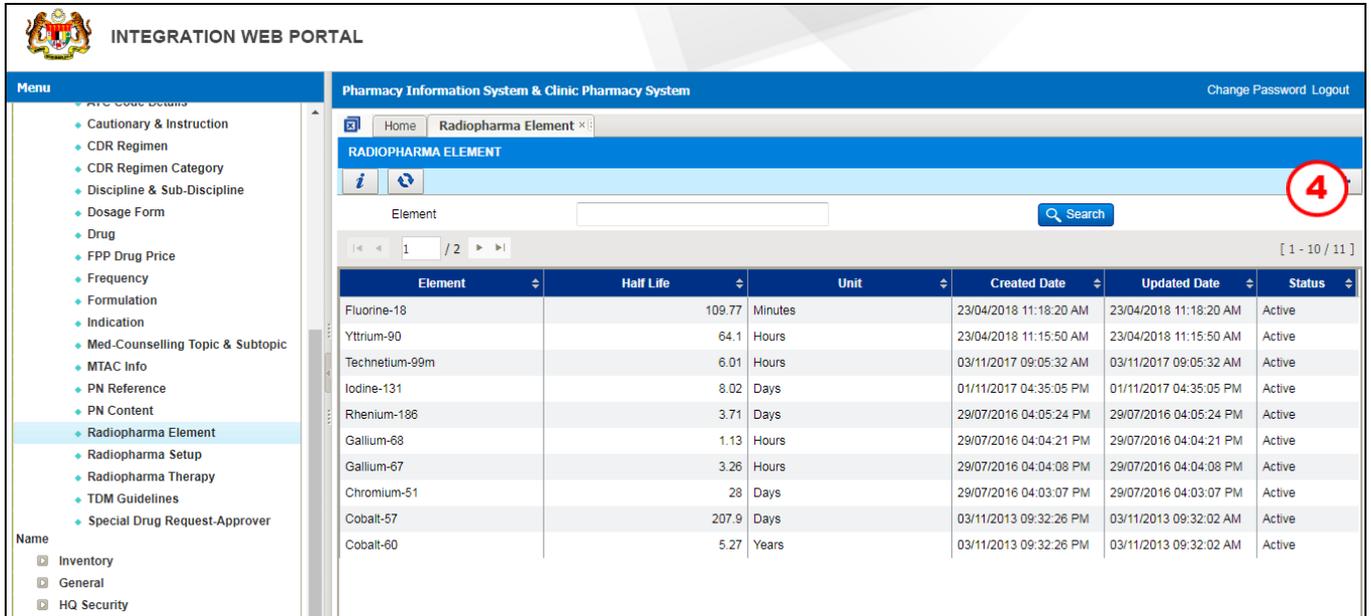


Figure 3.15.1-3 Radiopharma Element

**STEP 4**

Click on the button to create a new record and Radiopharma Element + Half Life screen will be displayed as Figure 3.15.1-4

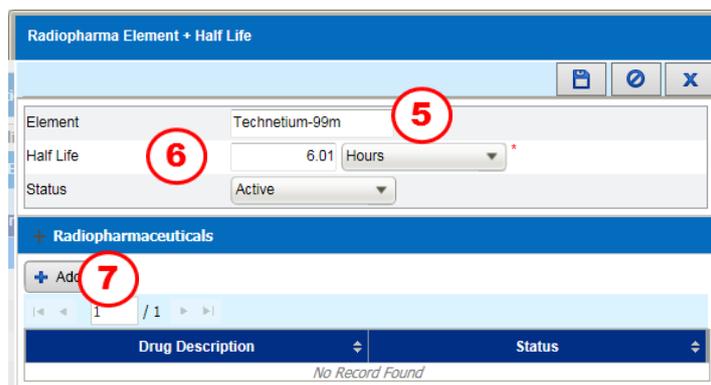


Figure 3.15.1-4 Radiopharma Element + Half Life

**STEP 5**

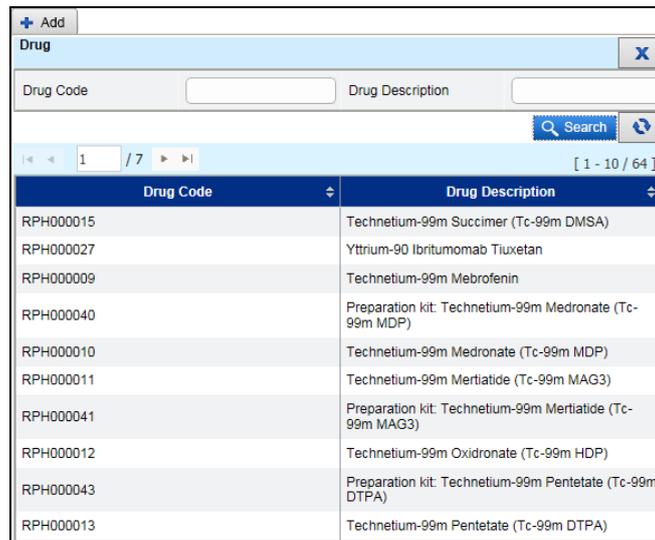
Enter **Element**

**STEP 6**

Enter **Half Life** and select the interval between **Days/Hours/Minutes/Months/Seconds/Years**

**STEP 7**

Click on the button and Drug window will be displayed as Figure 3.15.1-5

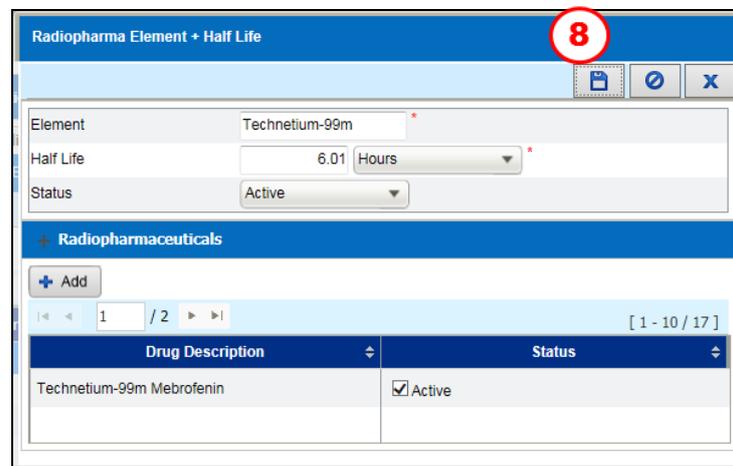


| Drug Code | Drug Description   |
|-----------|--|
| RPH000015 | Technetium-99m Succimer (Tc-99m DMSA)                    |
| RPH000027 | Yttrium-90 Ibritumomab Tiuxetan                          |
| RPH000009 | Technetium-99m Mebrofenin                                |
| RPH000040 | Preparation kit: Technetium-99m Medronate (Tc-99m MDP)   |
| RPH000010 | Technetium-99m Medronate (Tc-99m MDP)                    |
| RPH000011 | Technetium-99m Mertiatide (Tc-99m MAG3)                  |
| RPH000041 | Preparation kit: Technetium-99m Mertiatide (Tc-99m MAG3) |
| RPH000012 | Technetium-99m Oxidronate (Tc-99m HDP)                   |
| RPH000043 | Preparation kit: Technetium-99m Pentetate (Tc-99m DTPA)  |
| RPH000013 | Technetium-99m Pentetate (Tc-99m DTPA)                   |

Figure 3.15.1-5 Drug

**Note**

- User is allowed to enter partially or fully searching criteria for **Drug Code** and **Drug Description**. Then click on the  button
- Double click on the selected **Drug Code**



**Radiopharma Element + Half Life**

Element: Technetium-99m

Half Life: 6.01 Hours

Status: Active

**Radiopharmaceuticals**

**+ Add**

| Drug Description          | Status                                     |
|---------------------------|--|
| Technetium-99m Mebrofenin | <input checked="" type="checkbox"/> Active |

Figure 3.15.1-6 Radiopharma Element + Half Life

**Note**

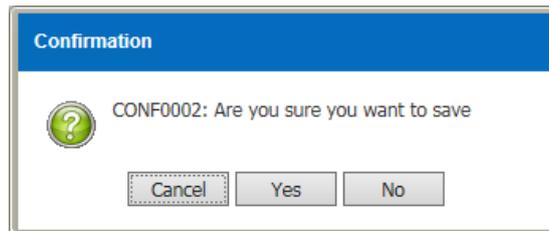
- User is allow to add more drug by click on the  button and follow **STEP 7**.

**STEP 8**

Click on the  button to save the record

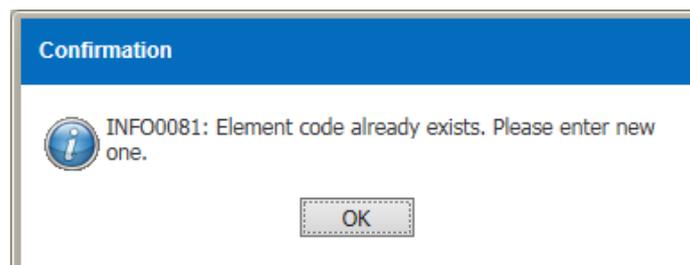
**Note**

- System will display a Confirmation Message as Figure 3.15.1-7
- Click on the  button to save the transaction
- Click on the  or  button to cancel the saved record



**Figure 3.15.1-7 Confirmation Message**

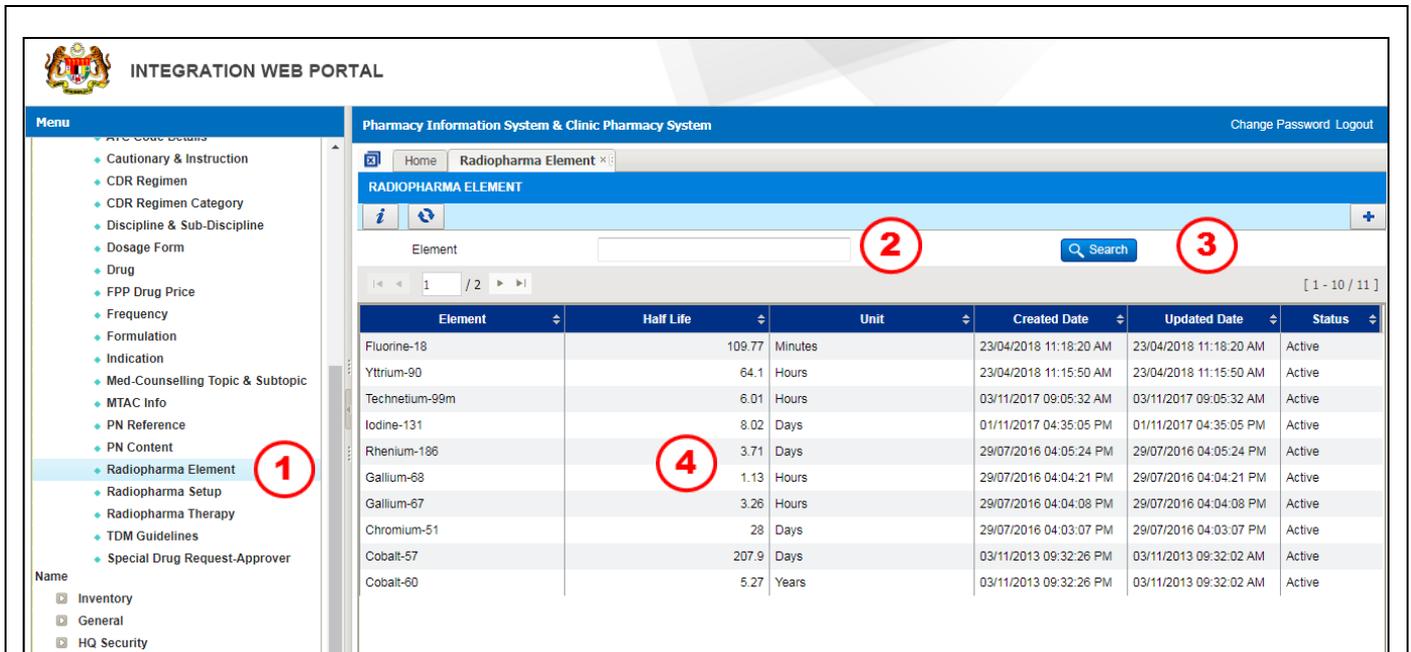
- System will display an Information Message if **Element Code** already exists as Figure 3.15.1-8



**Figure 3.15.1-8 Information Message**

### 3.15.2 Modify Radiopharma Element

To modify record for Radiopharma Element, perform the steps below:



**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Radiopharma Element

**RADIOPHARMA ELEMENT**

Element  Search

[ 1 - 10 / 11 ]

| Element        | Half Life | Unit    | Created Date           | Updated Date           | Status |
|----------------|-----------|---------|------------------------|------------------------|--------|
| Fluorine-18    | 109.77    | Minutes | 23/04/2018 11:18:20 AM | 23/04/2018 11:18:20 AM | Active |
| Yttrium-90     | 64.1      | Hours   | 23/04/2018 11:15:50 AM | 23/04/2018 11:15:50 AM | Active |
| Technetium-99m | 6.01      | Hours   | 03/11/2017 09:05:32 AM | 03/11/2017 09:05:32 AM | Active |
| Iodine-131     | 8.02      | Days    | 01/11/2017 04:35:05 PM | 01/11/2017 04:35:05 PM | Active |
| Rhenium-186    | 3.71      | Days    | 29/07/2016 04:05:24 PM | 29/07/2016 04:05:24 PM | Active |
| Gallium-68     | 1.13      | Hours   | 29/07/2016 04:04:21 PM | 29/07/2016 04:04:21 PM | Active |
| Gallium-67     | 3.26      | Hours   | 29/07/2016 04:04:08 PM | 29/07/2016 04:04:08 PM | Active |
| Chromium-51    | 28        | Days    | 29/07/2016 04:03:07 PM | 29/07/2016 04:03:07 PM | Active |
| Cobalt-57      | 207.9     | Days    | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active |
| Cobalt-60      | 5.27      | Years   | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active |

Figure 3.15.2-1 Radiopharma Element

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Radiopharma Element'

#### STEP 2

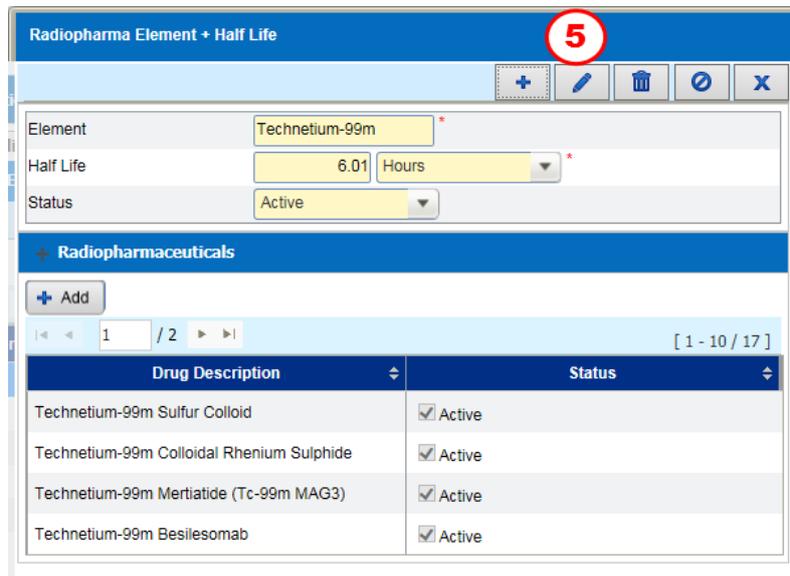
Search existing record by entering *Element*

#### STEP 3

Click on the  button and system will display the related record

#### STEP 4

Click on the selected record



**Radiopharma Element + Half Life**

Element: Technetium-99m \*

Half Life: 6.01 Hours \*

Status: Active

**+ Radiopharmaceuticals**

+ Add

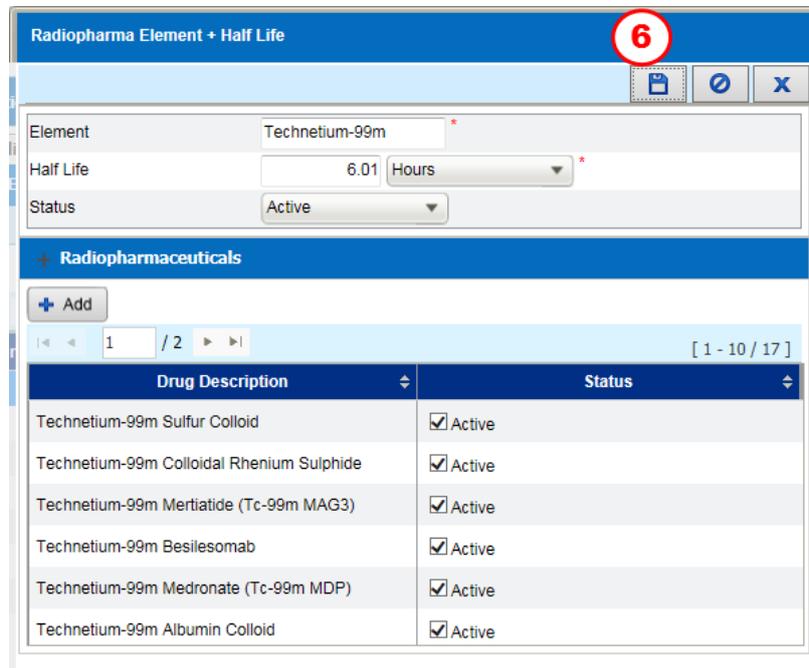
1 / 2 [ 1 - 10 / 17 ]

| Drug Description                          | Status                                     |
|---|--|
| Technetium-99m Sulfur Colloid             | <input checked="" type="checkbox"/> Active |
| Technetium-99m Colloidal Rhenium Sulphide | <input checked="" type="checkbox"/> Active |
| Technetium-99m Mertiotide (Tc-99m MAG3)   | <input checked="" type="checkbox"/> Active |
| Technetium-99m Besilesomab                | <input checked="" type="checkbox"/> Active |

Figure 3.15.2-2 Radiopharma Element + Half Life

**STEP 5**

Click on the  button to edit the record



**Radiopharma Element + Half Life**

Element: Technetium-99m \*

Half Life: 6.01 Hours \*

Status: Active

**+ Radiopharmaceuticals**

+ Add

1 / 2 [ 1 - 10 / 17 ]

| Drug Description                          | Status                                     |
|---|--|
| Technetium-99m Sulfur Colloid             | <input checked="" type="checkbox"/> Active |
| Technetium-99m Colloidal Rhenium Sulphide | <input checked="" type="checkbox"/> Active |
| Technetium-99m Mertiotide (Tc-99m MAG3)   | <input checked="" type="checkbox"/> Active |
| Technetium-99m Besilesomab                | <input checked="" type="checkbox"/> Active |
| Technetium-99m Medronate (Tc-99m MDP)     | <input checked="" type="checkbox"/> Active |
| Technetium-99m Albumin Colloid            | <input checked="" type="checkbox"/> Active |

Figure 3.15.2-3 Radiopharma Element + Half Life

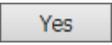
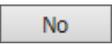
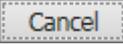
**Note**

- User is allowing to edit:
  - **Element**
  - **Half Life**
  - **Status**
  - **Radiopharma Drug**

### STEP 6

Click on the  button to save the edited record

#### **Note**

- System will display a Confirmation Message as Figure 3.15.2-4
- Click on the  button to save the edited record
- Click on the  or  button to cancel the edited record

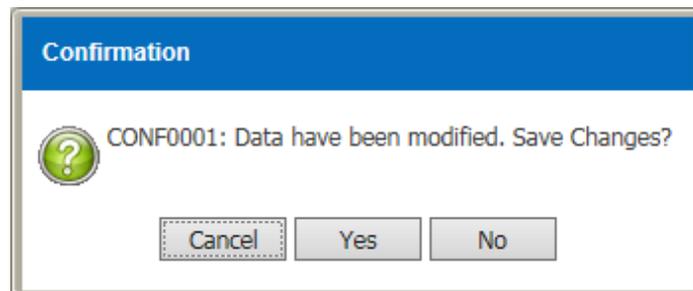


Figure 3.15.2-4 Confirmation Message

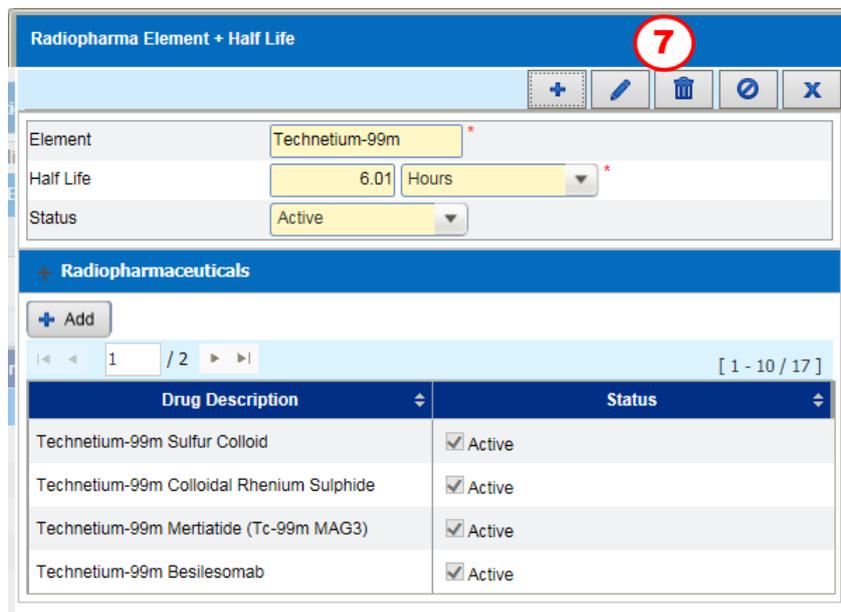
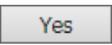


Figure 3.15.2-5 Radiopharma Element + Half Life

### STEP 7

Click on the  button to delete the record

#### **Note**

- System will display a Confirmation Message as Figure 3.15.2-6
- Click on the  button to delete the record

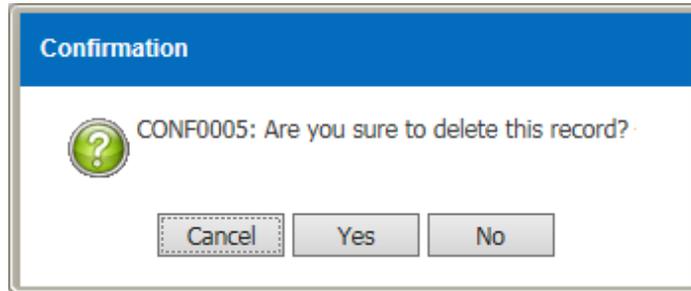


Figure 3.15.2-6 Confirmation Message

- The status of the record will be **Inactive** as figure 3.15.2-7

INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Home Radiopharma Element

RADIOPHARMA ELEMENT

Element

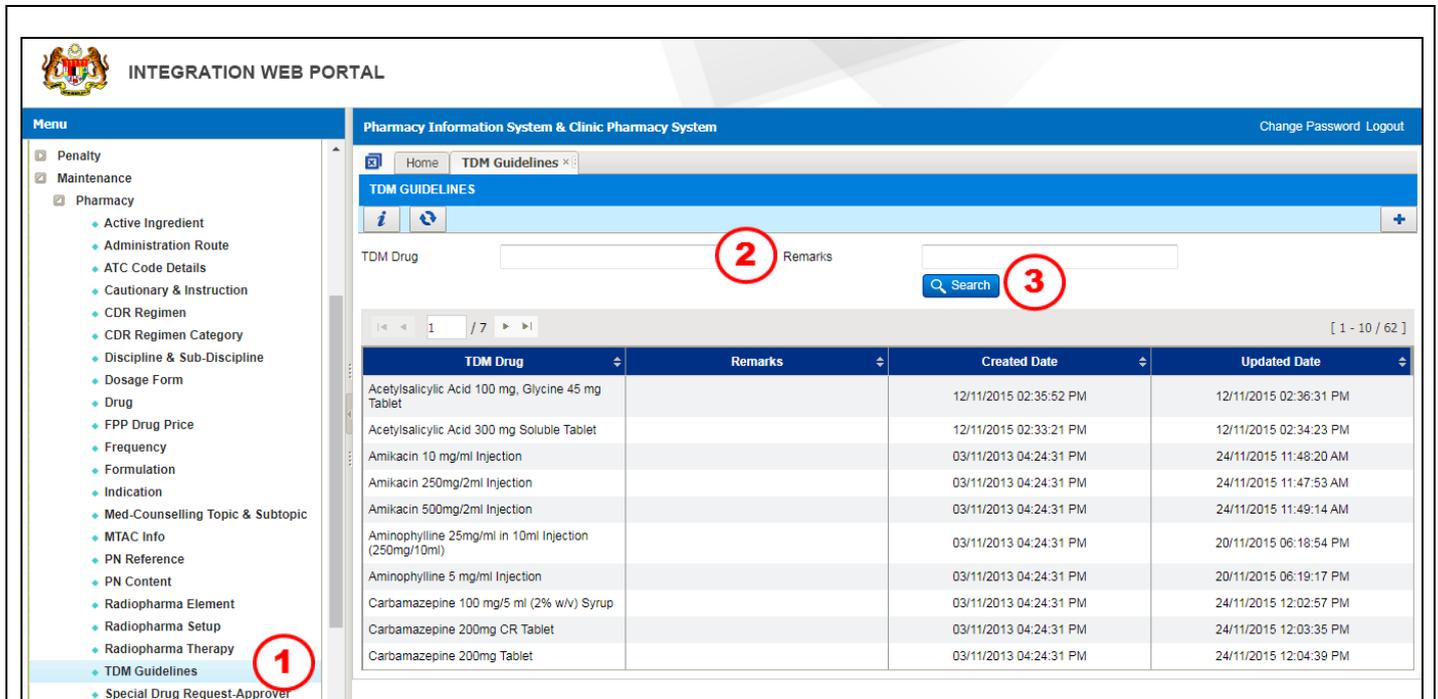
| Element        | Half Life | Unit    | Created Date           | Updated Date           | Status   |
|----------------|-----------|---------|------------------------|------------------------|----------|
| Technetium-99m | 6.01      | Hours   | 29/07/2016 04:09:01 PM | 29/07/2016 04:09:01 PM | Inactive |
| Rhenium-186    | 3.71      | Days    | 29/07/2016 04:05:24 PM | 29/07/2016 04:05:24 PM | Active   |
| Iodine-131     | 8.02      | Days    | 29/07/2016 04:05:11 PM | 29/07/2016 04:05:11 PM | Active   |
| Gallium-68     | 1.13      | Hours   | 29/07/2016 04:04:21 PM | 29/07/2016 04:04:21 PM | Active   |
| Gallium-67     | 3.26      | Hours   | 29/07/2016 04:04:08 PM | 29/07/2016 04:04:08 PM | Active   |
| Fluorine-18    | 109.77    | Minutes | 29/07/2016 04:03:50 PM | 29/07/2016 04:03:50 PM | Active   |
| Chromium-51    | 28        | Days    | 29/07/2016 04:03:07 PM | 29/07/2016 04:03:07 PM | Active   |
| Cobalt-57      | 207.9     | Days    | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active   |
| Cobalt-60      | 5.27      | Years   | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active   |
| Strontium-89   | 50.53     | Days    | 03/11/2013 09:32:26 PM | 03/11/2013 09:32:02 AM | Active   |

Figure 3.15.2-7 Radiopharma Element

### 3.16 TDM Guidelines

#### 3.16.1 Create New TDM Guideline

To create new record for TDM Guideline, perform the steps below:



The screenshot shows the 'INTEGRATION WEB PORTAL' interface. On the left is a 'Menu' with 'Maintenance' > 'Pharmacy' > 'TDM Guidelines' highlighted (1). The main area is titled 'Pharmacy Information System & Clinic Pharmacy System' and contains a 'TDM GUIDELINES' section with search fields for 'TDM Drug' and 'Remarks' (2), and a 'Search' button (3). Below the search fields is a table of records:

| TDM Drug   | Remarks | Created Date           | Updated Date           |
|--|---------|------------------------|------------------------|
| Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet    |         | 12/11/2015 02:35:52 PM | 12/11/2015 02:36:31 PM |
| Acetylsalicylic Acid 300 mg Soluble Tablet           |         | 12/11/2015 02:33:21 PM | 12/11/2015 02:34:23 PM |
| Amikacin 10 mg/ml Injection                          |         | 03/11/2013 04:24:31 PM | 24/11/2015 11:48:20 AM |
| Amikacin 250mg/2ml Injection                         |         | 03/11/2013 04:24:31 PM | 24/11/2015 11:47:53 AM |
| Amikacin 500mg/2ml Injection                         |         | 03/11/2013 04:24:31 PM | 24/11/2015 11:49:14 AM |
| Aminophylline 25mg/ml in 10ml Injection (250mg/10ml) |         | 03/11/2013 04:24:31 PM | 20/11/2015 06:18:54 PM |
| Aminophylline 5 mg/ml Injection                      |         | 03/11/2013 04:24:31 PM | 20/11/2015 06:19:17 PM |
| Carbamazepine 100 mg/5 ml (2% w/v) Syrup             |         | 03/11/2013 04:24:31 PM | 24/11/2015 12:02:57 PM |
| Carbamazepine 200mg CR Tablet                        |         | 03/11/2013 04:24:31 PM | 24/11/2015 12:03:35 PM |
| Carbamazepine 200mg Tablet                           |         | 03/11/2013 04:24:31 PM | 24/11/2015 12:04:39 PM |

Figure 3.16.1-1 TDM Guideline

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'TDM Guideline'

#### STEP 2

Search existing record by entering **TDM Drug** and/or **Remarks**

#### STEP 3

Click on the  button and system will display related record

#### Note

User is allowing to view the information by click on the related record and information will be displayed as Figure 3.16.1-2

**TDM Guideline**

TDM Drug: Acetylsalicylic Acid 100 mg, Glyc...  
 Total Cost of Analysis(RM): 0.00  
 Time to reach steady state: NA  
 Remarks: [Empty field]

Calculator: [List of drugs: Digoxin, Aminoglycoside Pre, Carbamazepine, Phenobarbitone, Vancomycin Pre, Theophylline, Valproic Acid, Vancomycin Post]

**TDM Guideline Detail**

| Sampling Type | After/Before | Default time | Lab Order         | Therapeutic Range       | UOM    | Updated On |
|---------------|--------------|--------------|-------------------|-------------------------|--------|------------|
| Random        | AFTER        | 1            | Salicylate Random | 4 hours after ingestion | mcg/ml | 12/11/2015 |

Figure 3.16.1-2 TDM Guideline

**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Menu:
 

- Penalty
- Maintenance
- Pharmacy
  - Active Ingredient
  - Administration Route
  - ATC Code Details
  - Cautionary & Instruction
  - CDR Regimen
  - CDR Regimen Category
  - Discipline & Sub-Discipline
  - Dosage Form
  - Drug
  - FPP Drug Price
  - Frequency
  - Formulation
  - Indication
  - Med-Counselling Topic & Subtopic
  - MTAC Info
  - PN Reference
  - PN Content
  - Radiopharma Element
  - Radiopharma Setup
  - Radiopharma Therapy
  - TDM Guidelines
  - Special Drug Request-Approver

**TDM GUIDELINES**

TDM Drug: [Search box] Remarks: [Search box] [Search]

| TDM Drug   | Remarks | Created Date           | Updated Date           |
|--|---------|------------------------|------------------------|
| Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet    |         | 12/11/2015 02:35:52 PM | 12/11/2015 02:36:31 PM |
| Acetylsalicylic Acid 300 mg Soluble Tablet           |         | 12/11/2015 02:33:21 PM | 12/11/2015 02:34:23 PM |
| Amikacin 10 mg/ml Injection                          |         | 03/11/2013 04:24:31 PM | 24/11/2015 11:48:20 AM |
| Amikacin 250mg/2ml Injection                         |         | 03/11/2013 04:24:31 PM | 24/11/2015 11:47:53 AM |
| Amikacin 500mg/2ml Injection                         |         | 03/11/2013 04:24:31 PM | 24/11/2015 11:49:14 AM |
| Aminophylline 25mg/ml in 10ml Injection (250mg/10ml) |         | 03/11/2013 04:24:31 PM | 20/11/2015 06:18:54 PM |
| Aminophylline 5 mg/ml Injection                      |         | 03/11/2013 04:24:31 PM | 20/11/2015 06:19:17 PM |
| Carbamazepine 100 mg/5 ml (2% w/v) Syrup             |         | 03/11/2013 04:24:31 PM | 24/11/2015 12:02:57 PM |
| Carbamazepine 200mg CR Tablet                        |         | 03/11/2013 04:24:31 PM | 24/11/2015 12:03:35 PM |
| Carbamazepine 200mg Tablet                           |         | 03/11/2013 04:24:31 PM | 24/11/2015 12:04:39 PM |

Figure 3.16.1-3 TDM Guideline

**STEP 4**

Click on the button to create a new record and TDM Guideline screen will be displayed as Figure 3.16.1-4

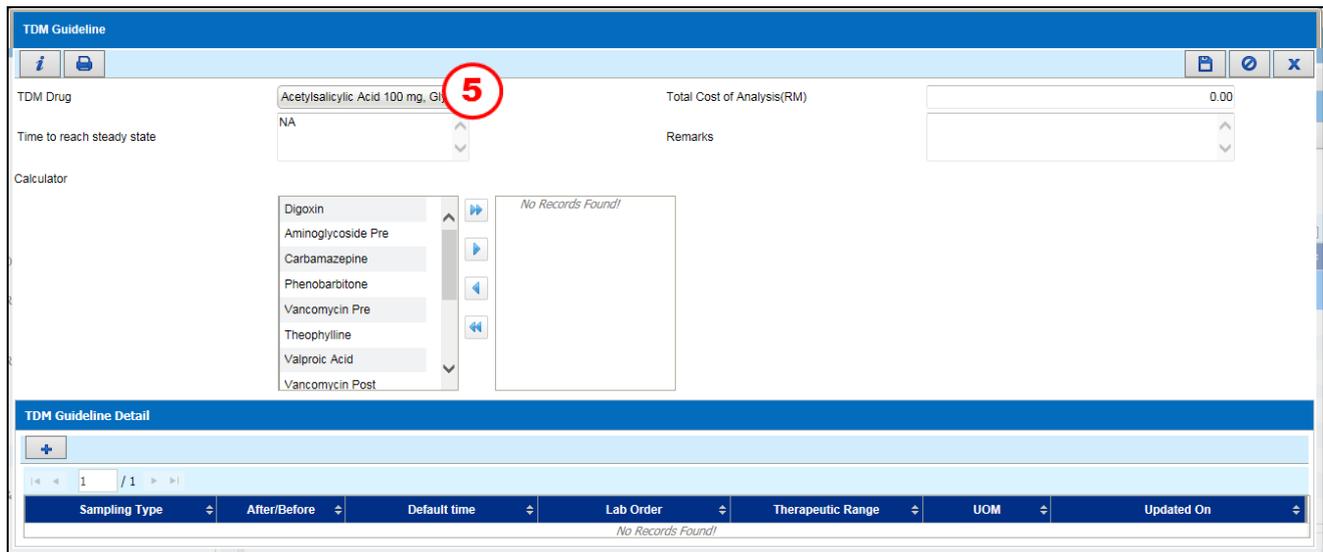
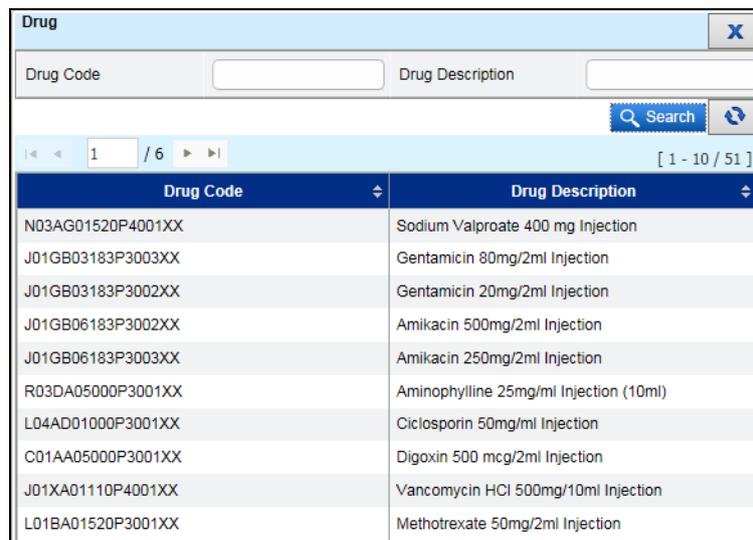


Figure 3.16.1-4 TDM Guideline

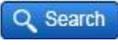
**STEP 5**

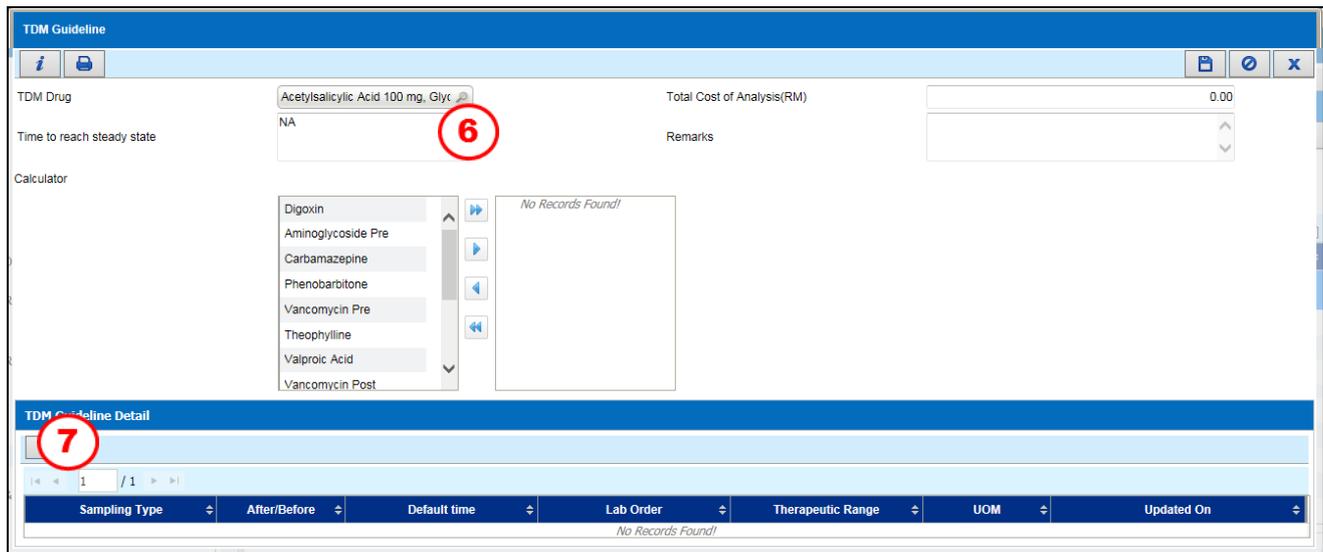
Click on **TDM Drug**  Drug window will be displayed as Figure 3.16.1-5



| Drug Code         | Drug Description                       |
|-------------------|--|
| N03AG01520P4001XX | Sodium Valproate 400 mg Injection      |
| J01GB03183P3003XX | Gentamicin 80mg/2ml Injection          |
| J01GB03183P3002XX | Gentamicin 20mg/2ml Injection          |
| J01GB06183P3002XX | Amikacin 500mg/2ml Injection           |
| J01GB06183P3003XX | Amikacin 250mg/2ml Injection           |
| R03DA05000P3001XX | Aminophylline 25mg/ml Injection (10ml) |
| L04AD01000P3001XX | Cyclosporin 50mg/ml Injection          |
| C01AA05000P3001XX | Digoxin 500 mcg/2ml Injection          |
| J01XA01110P4001XX | Vancomycin HCl 500mg/10ml Injection    |
| L01BA01520P3001XX | Methotrexate 50mg/2ml Injection        |

Figure 3.16.1-5 Drug

- User is allowed to enter partially or fully searching criteria for **Drug Code** and **Drug Description**. Then click on the  button
- Double click on the selected **Drug Code**



The screenshot shows the 'TDM Guideline' form. The 'TDM Drug' field contains 'Acetylsalicylic Acid 100 mg, Glyc' and is circled with a red '6'. The 'Time to reach steady state' field contains 'NA'. The 'Total Cost of Analysis(RM)' field contains '0.00'. The 'Remarks' field is empty. Below the form is a 'Calculator' section with a list of drugs: Digoxin, Aminoglycoside Pre, Carbamazepine, Phenobarbitone, Vancomycin Pre, Theophylline, Valproic Acid, and Vancomycin Post. A 'TDM Guideline Detail' section is visible below, with a red '7' circled around its header. The detail section shows a table with columns: Sampling Type, After/Before, Default time, Lab Order, Therapeutic Range, UOM, and Updated On. The table content is 'No Records Found!'.

Figure 3.16.1-6 TDM Guideline

**STEP 6**

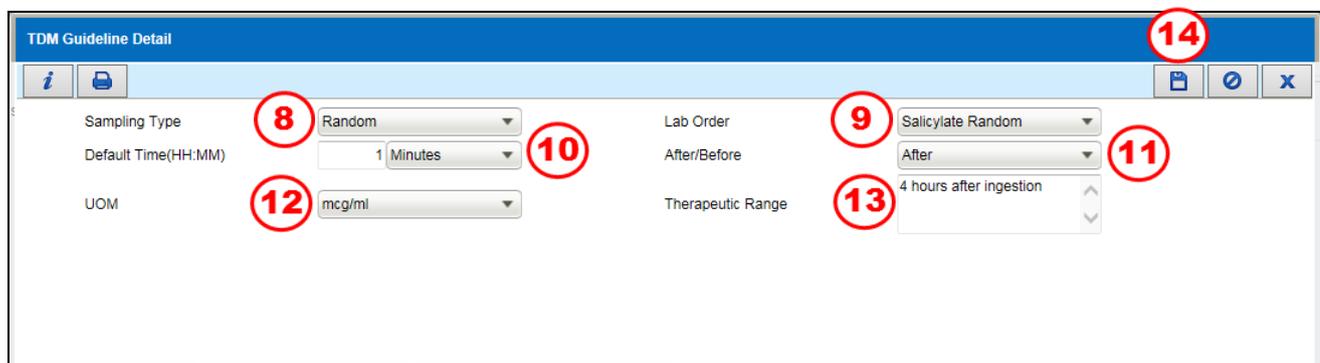
Enter **Time to reach steady state**

**Note**

- **Total Cost of Analysis(RM) and Remarks** is an optional field

**STEP 7**

Click on the  button and TDM Guideline Detail screen will be displayed as Figure 3.16.1-7



The screenshot shows the 'TDM Guideline Detail' form. The 'Sampling Type' dropdown is set to 'Random' (circled with a red '8'). The 'Default Time(HH:MM)' field is '1 Minutes' (circled with a red '10'). The 'UOM' dropdown is set to 'mcg/ml' (circled with a red '12'). The 'Lab Order' dropdown is set to 'Salicylate Random' (circled with a red '9'). The 'After/Before' dropdown is set to 'After' (circled with a red '11'). The 'Therapeutic Range' dropdown is set to '4 hours after ingestion' (circled with a red '13'). The window title bar is circled with a red '14'.

Figure 3.16.1-7 TDM Guideline Detail

**STEP 8**

Select **Sampling Type** from drop down box:

- POST 1
- POST 2
- Post
- Pre
- Random

**STEP 9**

Select **Lab Order**

**STEP 10**

Enter **Default Time (HH:MM)**

**STEP 11**

Select **After/Before** from drop down box:

- a) Before
- b) After

**STEP 12**

Select **UOM** from drop down box:

- a) mcg/ml
- b) mg/dL
- c) mmol/L
- d) ng/ml

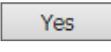
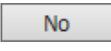
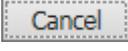
**STEP 13**

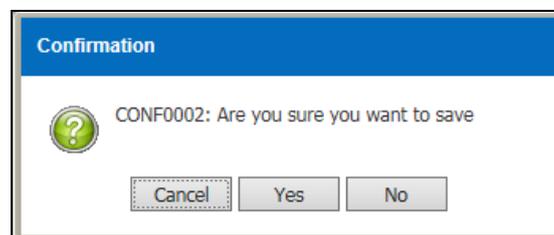
Enter **Therapeutic Range**

**STEP 14**

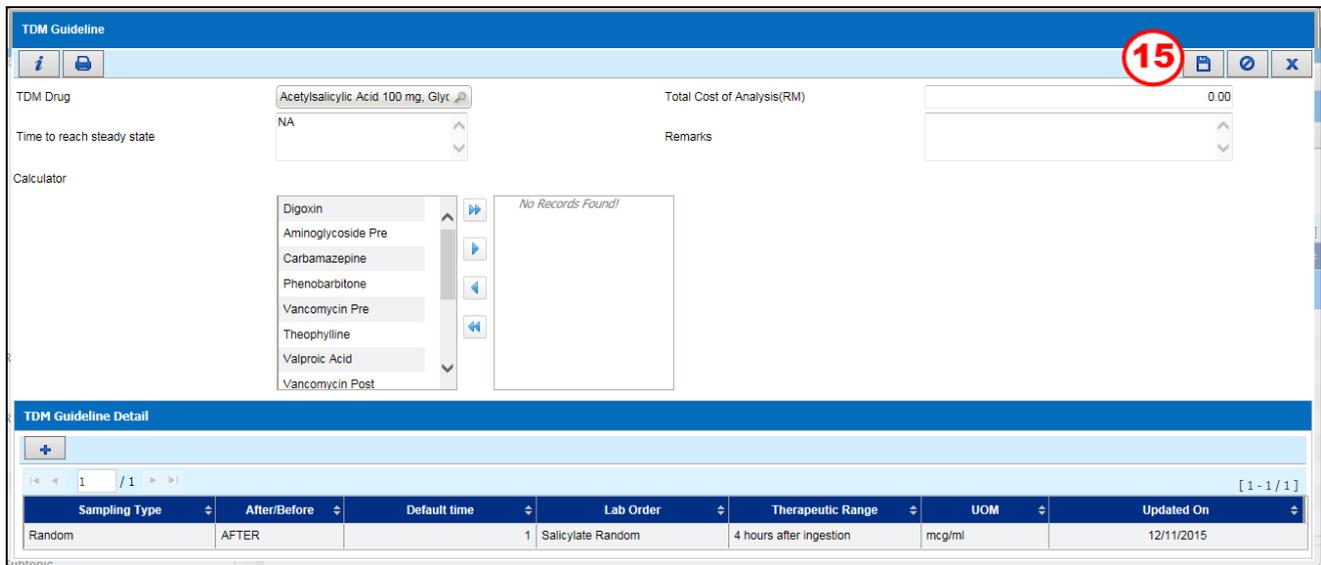
Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.16.1-8
- Click on the  button to save the record
- Click on the  or  button to cancel the saved record



**Figure 3.16.1-8 Confirmation Message**



| Sampling Type | After/Before | Default time | Lab Order         | Therapeutic Range       | UOM    | Updated On |
|---------------|--------------|--------------|-------------------|-------------------------|--------|------------|
| Random        | AFTER        | 1            | Salicylate Random | 4 hours after ingestion | mcg/ml | 12/11/2015 |

Figure 3.16.1-9 TDM Guideline

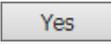
**Note**

Repeat **STEP 7** to **STEP 14** if there is more than 1 Sampling Type for the particular TDM Drug

**STEP 15**

Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.16.1-10
- Click on the  button to save the record
- Click on the  or  button to cancel the saved record

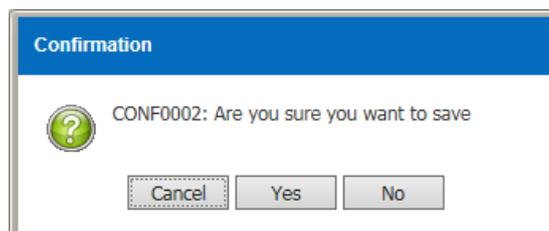
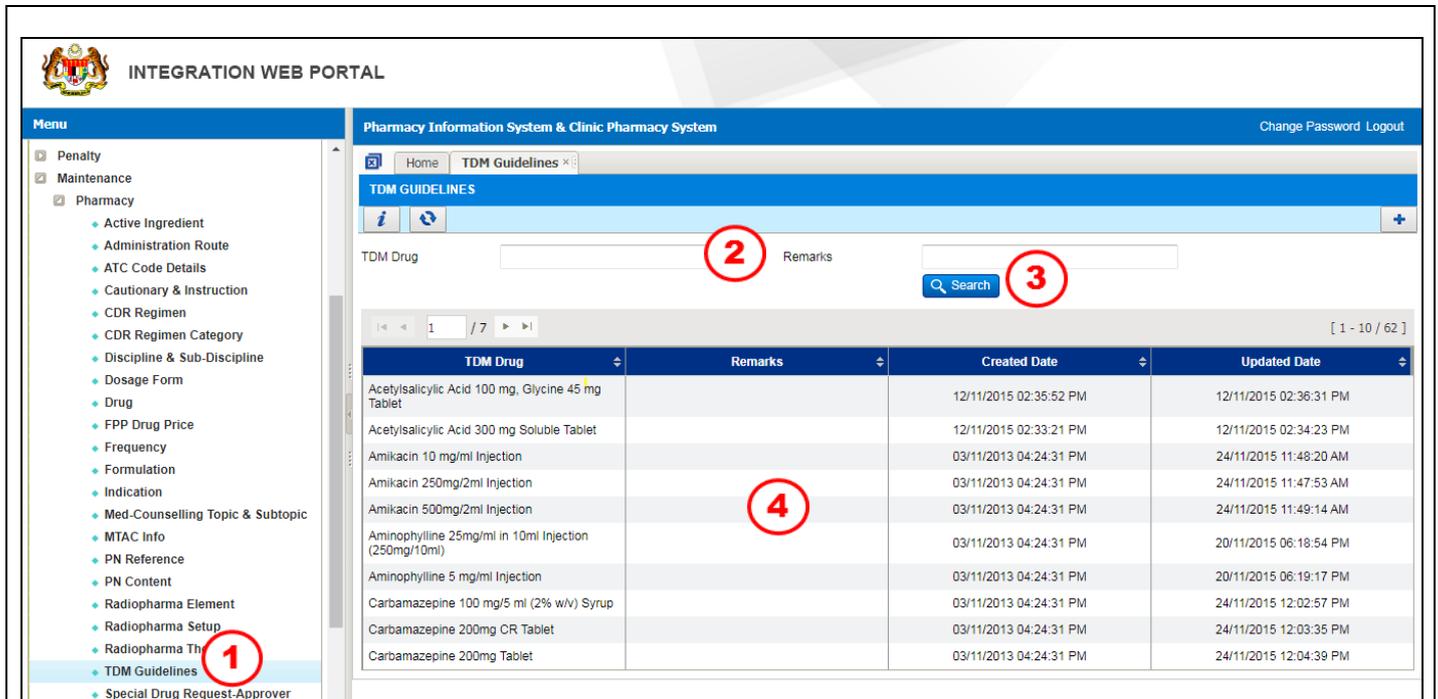


Figure 3.16.1-10 Confirmation Message

### 3.16.2 Modify TDM Guideline

To modify record for TDM Guideline, perform the steps below:



**Menu**

- Penalty
- Maintenance
  - Pharmacy
    - Active Ingredient
    - Administration Route
    - ATC Code Details
    - Cautionary & Instruction
    - CDR Regimen
    - CDR Regimen Category
    - Discipline & Sub-Discipline
    - Dosage Form
    - Drug
    - FPP Drug Price
    - Frequency
    - Formulation
    - Indication
    - Med-Counselling Topic & Subtopic
    - MTAC Info
    - PN Reference
    - PN Content
    - Radiopharma Element
    - Radiopharma Setup
    - Radiopharma Th **1**
    - TDM Guidelines
    - Special Drug Request-Approver

**Pharmacy Information System & Clinic Pharmacy System** Change Password Logout

Home TDM Guidelines

**TDM GUIDELINES**

TDM Drug  **2** Remarks  **3** Search

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| TDM Drug   | Remarks  | Created Date           | Updated Date           |
|--|----------|------------------------|------------------------|
| Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet    |          | 12/11/2015 02:35:52 PM | 12/11/2015 02:36:31 PM |
| Acetylsalicylic Acid 300 mg Soluble Tablet           |          | 12/11/2015 02:33:21 PM | 12/11/2015 02:34:23 PM |
| Amikacin 10 mg/ml Injection                          |          | 03/11/2013 04:24:31 PM | 24/11/2015 11:48:20 AM |
| Amikacin 250mg/2ml Injection                         |          | 03/11/2013 04:24:31 PM | 24/11/2015 11:47:53 AM |
| Amikacin 500mg/2ml Injection                         | <b>4</b> | 03/11/2013 04:24:31 PM | 24/11/2015 11:49:14 AM |
| Aminophylline 25mg/ml in 10ml Injection (250mg/10ml) |          | 03/11/2013 04:24:31 PM | 20/11/2015 06:18:54 PM |
| Aminophylline 5 mg/ml Injection                      |          | 03/11/2013 04:24:31 PM | 20/11/2015 06:19:17 PM |
| Carbamazepine 100 mg/5 ml (2% w/v) Syrup             |          | 03/11/2013 04:24:31 PM | 24/11/2015 12:02:57 PM |
| Carbamazepine 200mg CR Tablet                        |          | 03/11/2013 04:24:31 PM | 24/11/2015 12:03:35 PM |
| Carbamazepine 200mg Tablet                           |          | 03/11/2013 04:24:31 PM | 24/11/2015 12:04:39 PM |

Figure 3.16.2-1 TDM Guideline

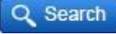
#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'TDM Guideline'

#### STEP 2

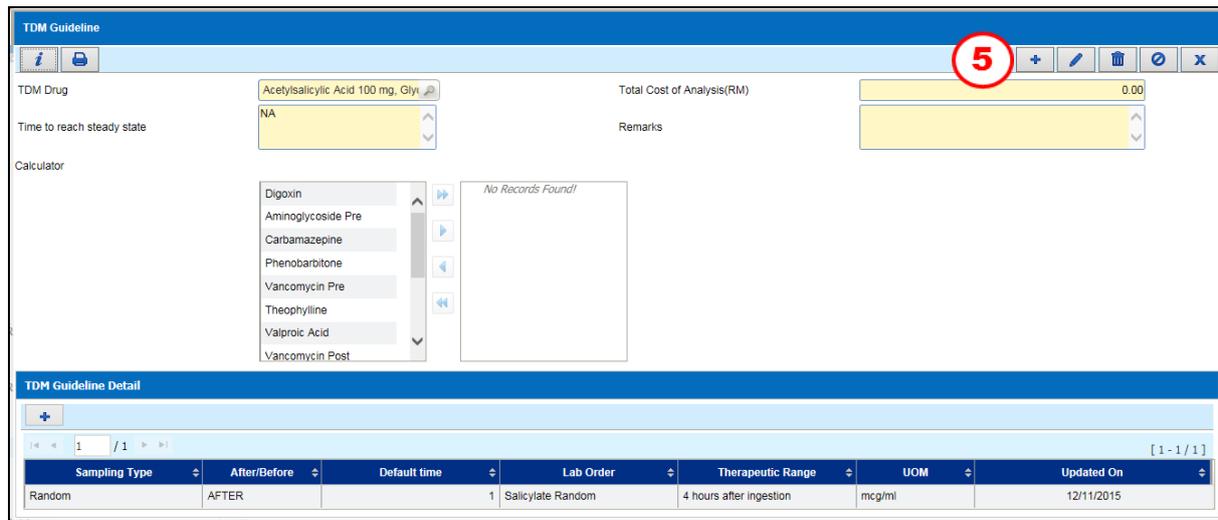
Search existing record by entering **TDM Drug** and/or **Remarks**

#### STEP 3

Click on the  button and system will display related record

#### STEP 4

Click on the selected record



The screenshot shows the 'TDM Guideline' form. At the top right, a red circle with the number '5' highlights the edit button (pencil icon). The form contains the following fields:

- TDM Drug: Acetylsalicylic Acid 100 mg, Glyc
- Time to reach steady state: NA
- Total Cost of Analysis(RM): 0.00
- Remarks: (empty)
- Calculator: A list of drugs including Digoxin, Aminoglycoside Pre, Carbamazepine, Phenobarbitone, Vancomycin Pre, Theophylline, Valproic Acid, and Vancomycin Post. A 'No Records Found!' message is displayed next to the list.

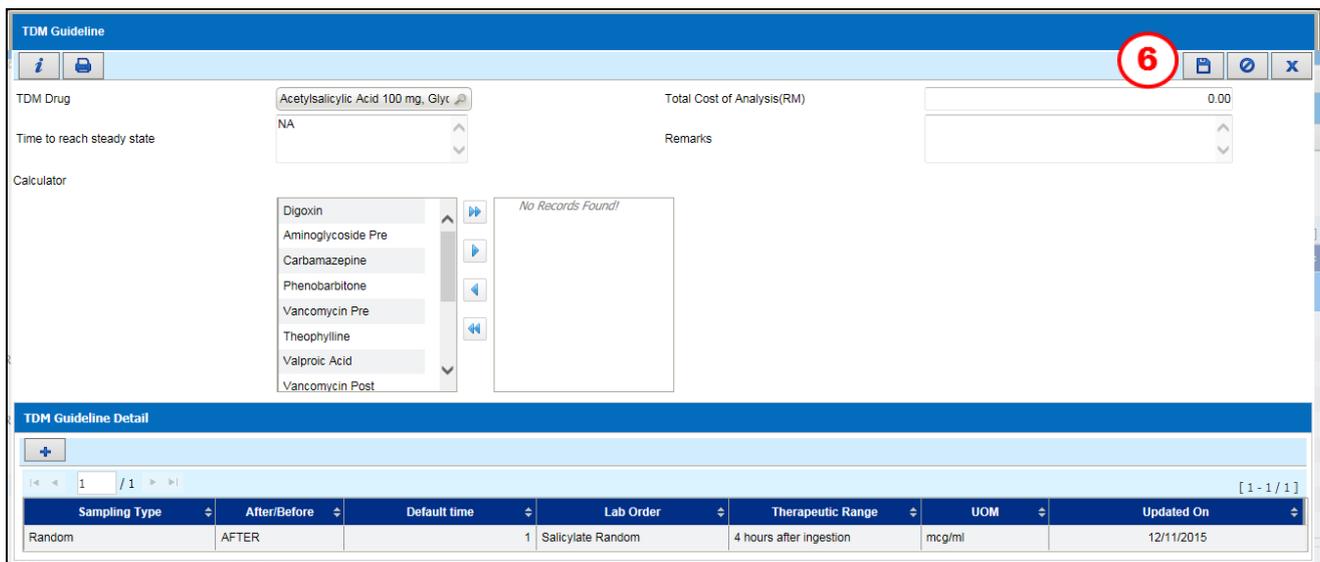
Below the form is a 'TDM Guideline Detail' table with the following data:

| Sampling Type | After/Before | Default time | Lab Order         | Therapeutic Range       | UOM    | Updated On |
|---------------|--------------|--------------|-------------------|-------------------------|--------|------------|
| Random        | AFTER        | 1            | Salicylate Random | 4 hours after ingestion | mcg/ml | 12/11/2015 |

Figure 3.16.2-2 TDM Guideline

**STEP 5**

Click on the  button to edit the record



The screenshot shows the 'TDM Guideline' form after editing. At the top right, a red circle with the number '6' highlights the save button (floppy disk icon). The form content is identical to the previous screenshot.

Figure 3.16.2-3 TDM Guideline

**Note**

User is allowing to edit:

- **TDM Drug**
- **Time to reach steady state**
- **Total Cost of Analysis(RM)**
- **TDM Guideline Detail**

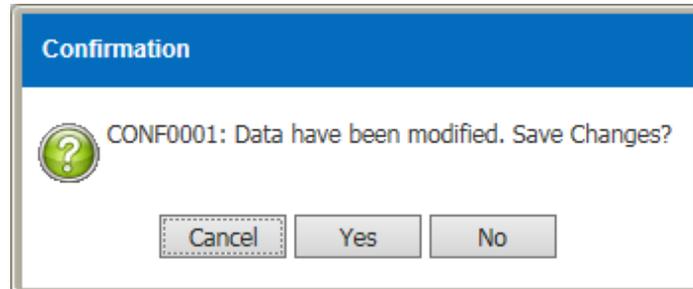
**STEP 6**

Click on the  button to save the edited record

**Note**

- System will display a Confirmation Message as Figure 3.16.2-4

- Click on the  button to save the edited record
- Click on the  or  button to cancel the edited record



**Figure 3.16.2-4 Confirmation Message**

### 3.17 MTAC Info

#### 3.17.1 Create new MTAC Info

To create new record for MTAC Info, perform the steps below:

INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Menu

- KPK Approval
- Budget
- Penalty
- Maintenance
  - Pharmacy
    - Active Ingredient
    - Administration Route
    - ATC Code Details
    - Cautionary & Instruction
    - CDR Regimen
    - CDR Regimen Category
    - Discipline & Sub-Discipline
    - Dosage Form
    - Drug
    - FPP Drug Price
    - Frequency
    - Formulation
    - Indication
    - Med-Counselling Subtopic
    - MTAC Info**
    - PN Reference
    - PN Content
    - Radiopharma Element
    - Radiopharma Setup
    - Radiopharma Therapy

MTAC INFO

MTAC Info Code  MTAC Info Description

Search

| MTAC Info Code | MTAC Info Description      | Created Date        | Updated Date        | Status   | Consent form             |
|----------------|----------------------------|---------------------|---------------------|----------|--------------------------|
| MTAC-THA       | Thalassaemia               | 03/09/2018 09:40 AM | 03/09/2018 10:02 AM | Active   | <input type="checkbox"/> |
| MTAC-CCB       | Cardiovascular Care Bundle | 14/06/2017 02:40 PM | 14/06/2017 02:40 PM | Active   | <input type="checkbox"/> |
| MTAC-CRP       | Cardiac Rehab Program      | 15/11/2013 04:50 PM | 04/10/2016 11:29 AM | Inactive | <input type="checkbox"/> |
| MTAC-OST       | Osteoporosis               | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-HF        | Heart Failure              | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-GH        | Gastrohepatology           | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-CP        | Chronic Pain               | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-PSO       | Psoriasis                  | 23/02/2015 11:11 AM | 23/02/2015 11:12 AM | Active   | <input type="checkbox"/> |

Figure 3.17.1-1 MTAC Info

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Therapy Linked Radiopharma'

#### STEP 2

Search existing record by entering **MTAC Info Code** and/or **MTAC Info Description**

#### STEP 3

Click on the button and system will display related record

#### Note

User is allowing to view the information by click on the related record and information will be displayed as Figure 3.17.1-2

MTAC Info

MTAC Info Code

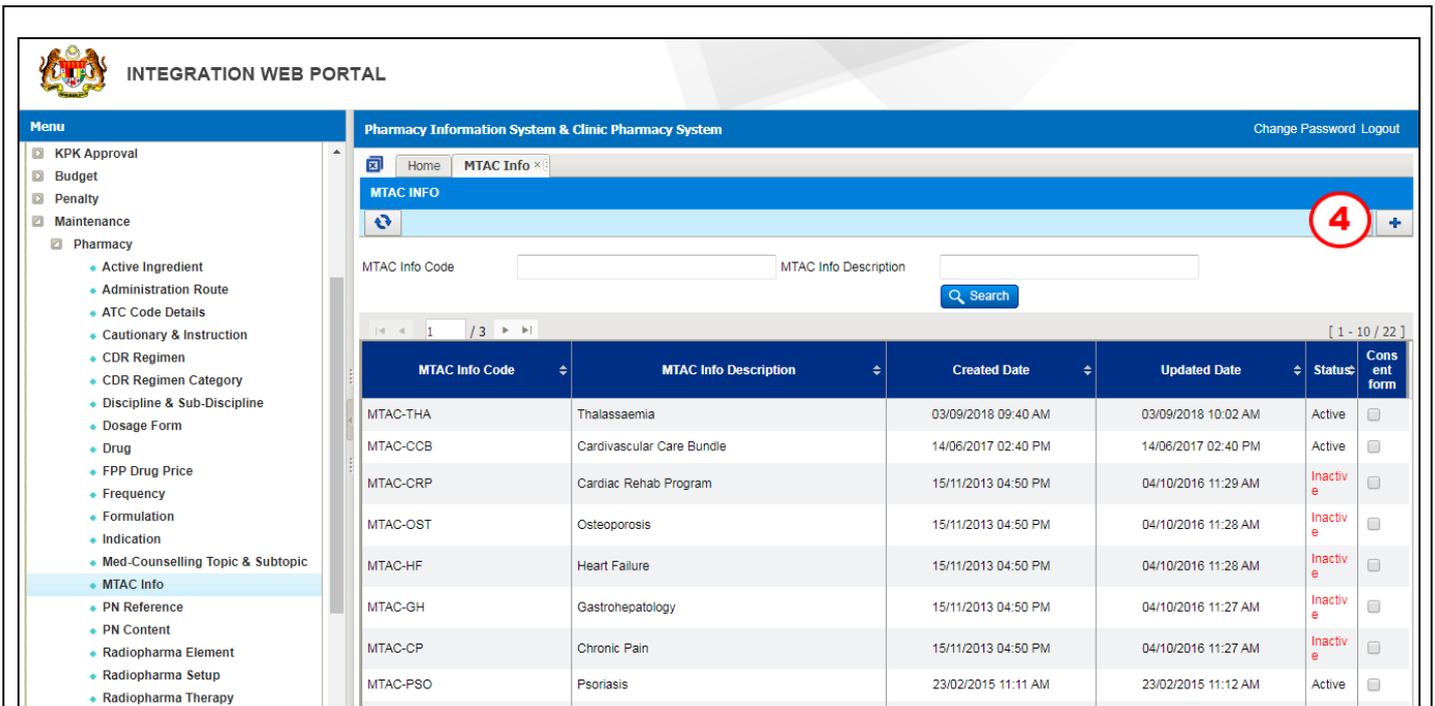
MTAC Info Description

Status

Figure 3.17.1-2 MTAC Info

#### Note

Click on the button to close the screen



**INTEGRATION WEB PORTAL**

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home MTAC Info ×

MTAC INFO

MTAC Info Code  MTAC Info Description

Search

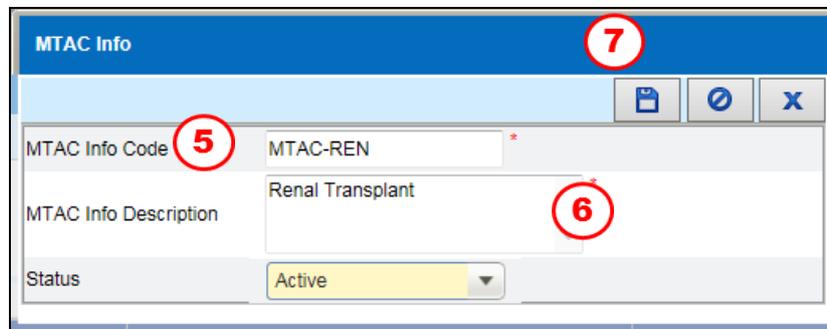
[ 1 - 10 / 22 ]

| MTAC Info Code | MTAC Info Description      | Created Date        | Updated Date        | Status   | Consent form             |
|----------------|----------------------------|---------------------|---------------------|----------|--------------------------|
| MTAC-THA       | Thalassaemia               | 03/09/2018 09:40 AM | 03/09/2018 10:02 AM | Active   | <input type="checkbox"/> |
| MTAC-CCB       | Cardiovascular Care Bundle | 14/06/2017 02:40 PM | 14/06/2017 02:40 PM | Active   | <input type="checkbox"/> |
| MTAC-CRP       | Cardiac Rehab Program      | 15/11/2013 04:50 PM | 04/10/2016 11:29 AM | Inactive | <input type="checkbox"/> |
| MTAC-OST       | Osteoporosis               | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-HF        | Heart Failure              | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-GH        | Gastrohepatology           | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-CP        | Chronic Pain               | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-PSO       | Psoriasis                  | 23/02/2015 11:11 AM | 23/02/2015 11:12 AM | Active   | <input type="checkbox"/> |

Figure 3.17.1-3 MTAC Info

**STEP 4**

Click on the  button to create a new record and MTAC Info screen will be displayed as Figure 3.17.1-4



**MTAC Info**

MTAC Info Code

MTAC Info Description

Status

Figure 3.17.1-4 MTAC Info

**STEP 5**

Enter **MTAC Info Code**

**STEP 6**

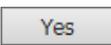
Enter **MTAC Info Description**

**STEP 7**

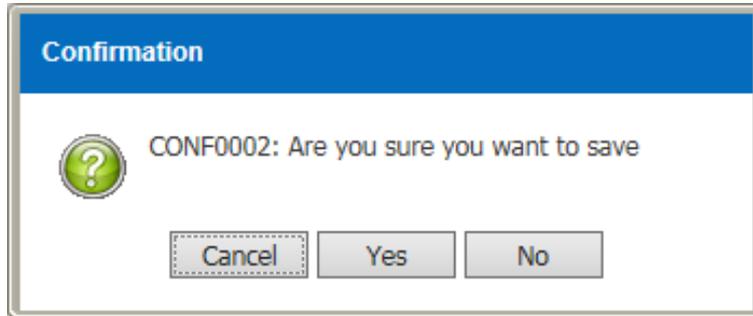
Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.17.1-5

- Click on the  button to save the record

- Click on the  or  button to cancel the saved record



**Figure 3.17.1-5 Confirmation Message**

### 3.17.2 Modify MTAC Info

To modify record for MTAC Info, perform the steps below:

**Menu**

- KPK Approval
- Budget
- Penalty
- Maintenance
  - Pharmacy
    - Active Ingredient
    - Administration Route
    - ATC Code Details
    - Cautionary & Instruction
    - CDR Regimen
    - CDR Regimen Category
    - Discipline & Sub-Discipline
    - Dosage Form
    - Drug
    - FPP Drug Price
    - Frequency
    - Formulation
    - Indication
    - Med-Counselling Topic & Subtopic
    - MTAC Info**
    - PN Reference
    - PN Content
    - Radiopharma Element
    - Radiopharma Setup
    - Radiopharma Therapy

**Pharmacy Information System & Clinic Pharmacy System** Change Password Logout

Home MTAC Info

**MTAC INFO**

MTAC Info Code  MTAC Info Description

| MTAC Info Code | MTAC Info Description      | Created Date        | Updated Date        | Status   | Consent form             |
|----------------|----------------------------|---------------------|---------------------|----------|--------------------------|
| MTAC-THA       | Thalassaemia               | 03/09/2018 09:40 AM | 03/09/2018 10:02 AM | Active   | <input type="checkbox"/> |
| MTAC-CCB       | Cardiovascular Care Bundle | 14/06/2017 02:40 PM | 14/06/2017 02:40 PM | Active   | <input type="checkbox"/> |
| MTAC-CRP       | Cardiac Rehab Program      | 15/11/2013 04:50 PM | 04/10/2016 11:29 AM | Inactive | <input type="checkbox"/> |
| MTAC-OST       | Osteoporosis               | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-HF        | Heart Failure              | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-GH        | Gastrohepatology           | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-CP        | Chronic Pain               | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-PSO       | Psoriasis                  | 23/02/2015 11:11 AM | 23/02/2015 11:12 AM | Active   | <input type="checkbox"/> |

Figure 3.17.2-1 MTAC Info

**STEP 1**

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Therapy Linked Radiopharma'

**STEP 2**

Search existing record by entering **MTAC Info Code** and/or **MTAC Info Description**

**STEP 3**

Click on the  button and system will display related record

**STEP 4**

Click on the selected record

**MTAC Info**

MTAC Info Code

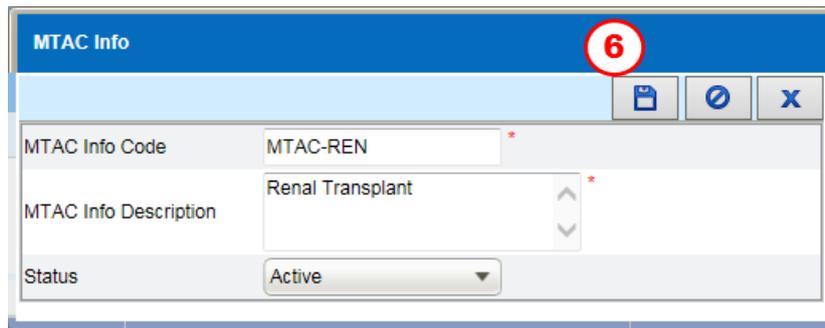
MTAC Info Description

Status

Figure 3.17.2-2 MTAC Info

**STEP 5**

Click on the  button to edit the record



| MTAC Info             |                    |
|-----------------------|--------------------|
| MTAC Info Code        | MTAC-REN *         |
| MTAC Info Description | Renal Transplant * |
| Status                | Active             |

Figure 3.17.2-3 MTAC Info

**Note**

User is allowing to edit:

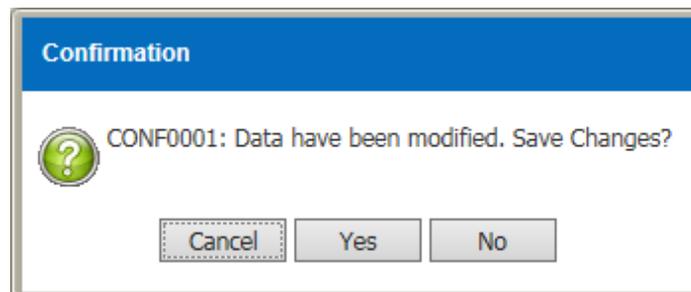
- **MTAC Info Code**
- **MTAC Info Description**
- **Status**

**STEP 6**

Click on the  button to save the edited record

**Note**

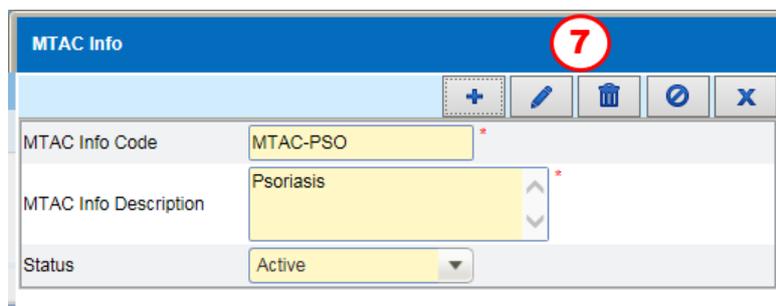
- System will display a Confirmation Message as Figure 3.17.2-4
- Click on the  button to save the edited record
- Click on the  or  button to cancel the edited record



**Confirmation**

CONF0001: Data have been modified. Save Changes?

Figure 3.17.2-4 Confirmation Message



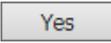
| MTAC Info             |             |
|-----------------------|-------------|
| MTAC Info Code        | MTAC-PSO *  |
| MTAC Info Description | Psoriasis * |
| Status                | Active      |

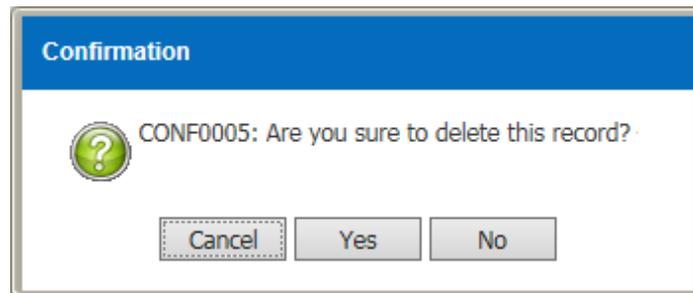
Figure 3.17.2-5 MTAC Info

**STEP 7**

Click on the  button to delete the record

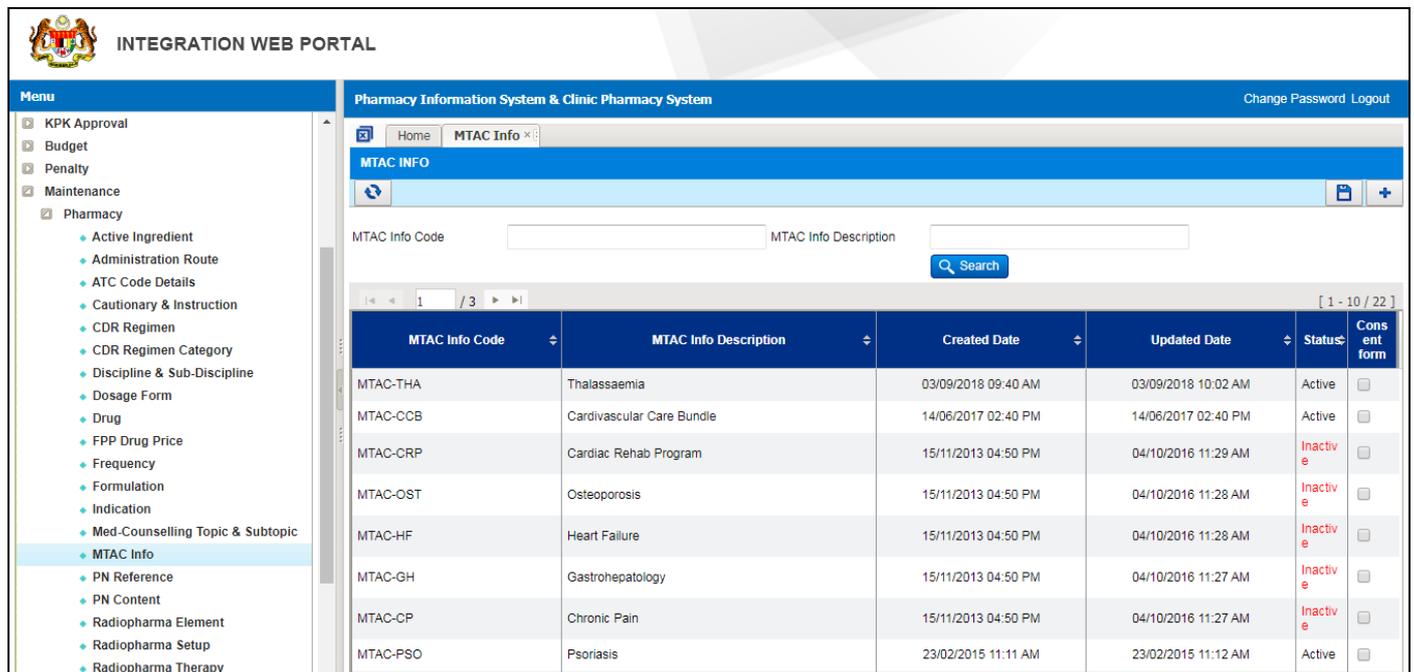
**Note**

- System will display a Confirmation Message as Figure 3.17.2-6
- Click on the  button to delete the record



**Figure 3.17.2-6 Confirmation Message**

- The status of the record will be **Inactive** as figure 3.17.2-7



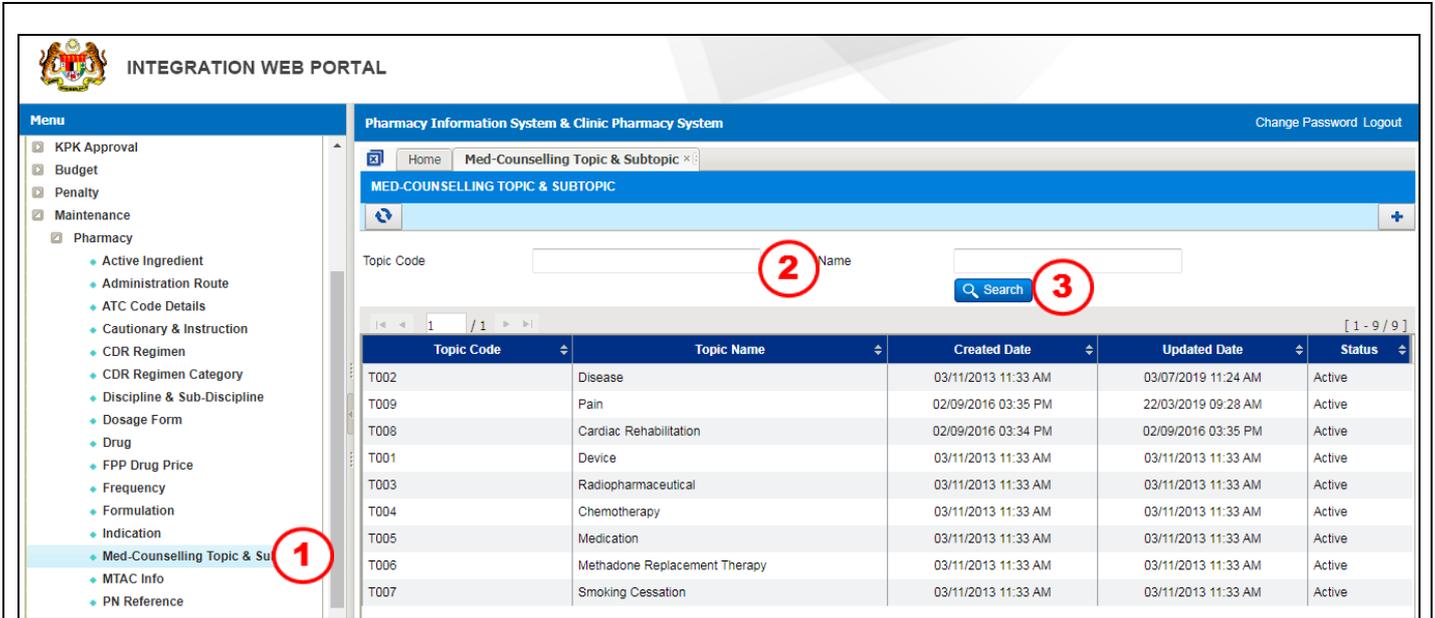
| MTAC Info Code | MTAC Info Description      | Created Date        | Updated Date        | Status   | Consent form             |
|----------------|----------------------------|---------------------|---------------------|----------|--------------------------|
| MTAC-THA       | Thalassaemia               | 03/09/2018 09:40 AM | 03/09/2018 10:02 AM | Active   | <input type="checkbox"/> |
| MTAC-CCB       | Cardiovascular Care Bundle | 14/06/2017 02:40 PM | 14/06/2017 02:40 PM | Active   | <input type="checkbox"/> |
| MTAC-CRP       | Cardiac Rehab Program      | 15/11/2013 04:50 PM | 04/10/2016 11:29 AM | Inactive | <input type="checkbox"/> |
| MTAC-OST       | Osteoporosis               | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-HF        | Heart Failure              | 15/11/2013 04:50 PM | 04/10/2016 11:28 AM | Inactive | <input type="checkbox"/> |
| MTAC-GH        | Gastrohepatology           | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-CP        | Chronic Pain               | 15/11/2013 04:50 PM | 04/10/2016 11:27 AM | Inactive | <input type="checkbox"/> |
| MTAC-PSO       | Psoriasis                  | 23/02/2015 11:11 AM | 23/02/2015 11:12 AM | Active   | <input type="checkbox"/> |

**Figure 3.17.2-7 MTAC Info**

### 3.18 Med-Counselling Topic & Subtopic

#### 3.18.1 Create New Med-Counselling Topic & Subtopic

To create new record for Med-Counselling Topic & Subtopic, perform the steps below:



| Topic Code | Topic Name                    | Created Date        | Updated Date        | Status |
|------------|-------------------------------|---------------------|---------------------|--------|
| T002       | Disease                       | 03/11/2013 11:33 AM | 03/07/2019 11:24 AM | Active |
| T009       | Pain                          | 02/09/2016 03:35 PM | 22/03/2019 09:28 AM | Active |
| T008       | Cardiac Rehabilitation        | 02/09/2016 03:34 PM | 02/09/2016 03:35 PM | Active |
| T001       | Device                        | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T003       | Radiopharmaceutical           | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T004       | Chemotherapy                  | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T005       | Medication                    | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T006       | Methadone Replacement Therapy | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T007       | Smoking Cessation             | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |

Figure 3.18.1-1 Med-Counselling Topic & Subtopic

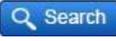
#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Med-Counselling Topic & Subtopic'

#### STEP 2

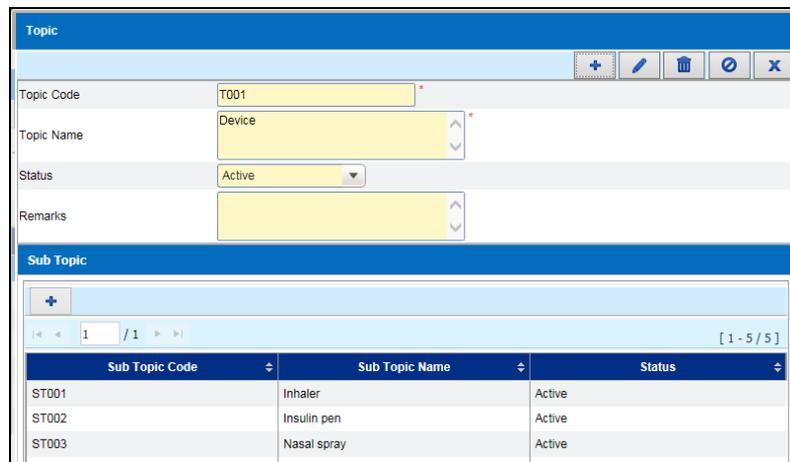
Search existing record by entering **Topic Code** and/or **Topic Name**

#### STEP 3

Click on the  button and system will display related record

#### Note

User is allowing to view the information by click on the related record and information will be displayed as Figure 3.18.1-2

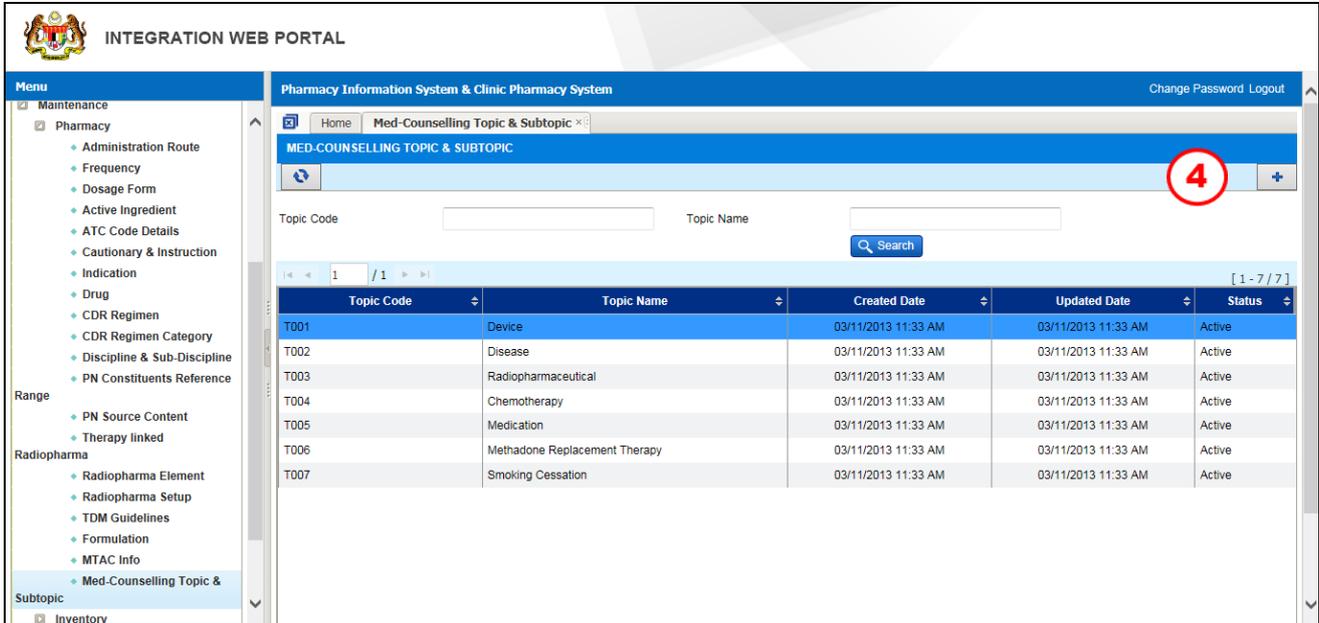


| Sub Topic Code | Sub Topic Name | Status |
|----------------|----------------|--------|
| ST001          | Inhaler        | Active |
| ST002          | Insulin pen    | Active |
| ST003          | Nasal spray    | Active |

Figure 3.18.1-2 Topic

**Note**

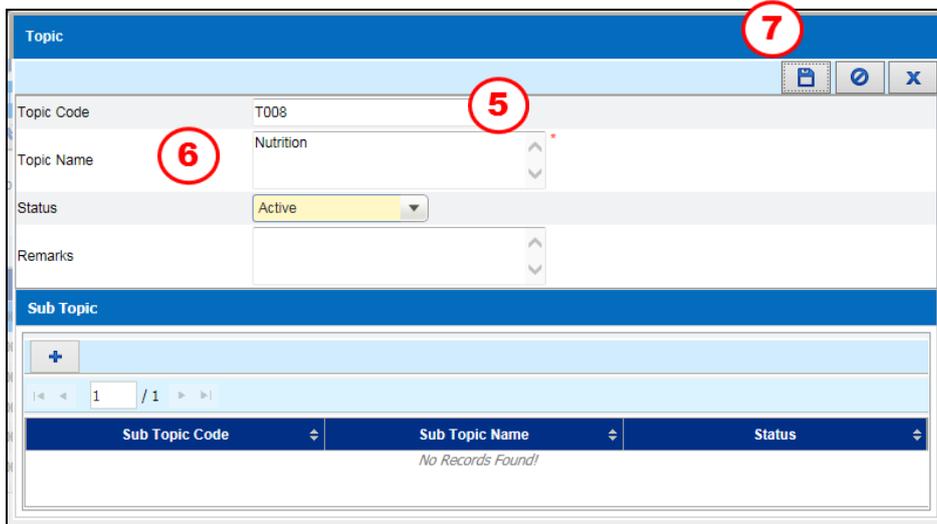
Click on the button to close the screen



**Figure 3.18.1-3 Med-Counselling Topic & Subtopic**

**STEP 4**

Click on the button to create a new record and Topic screen will be displayed as Figure 3.18.1-4



**Figure 3.18.1-4 Topic**

**STEP 5**

Enter **Topic Code**

**STEP 6**

Enter **Topic Name**

**Note**

Remarks is an optional field

**STEP 7**

Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.18.1-5
- Click on the  button to save the transaction
- Click on the  or  button to cancel the saved record

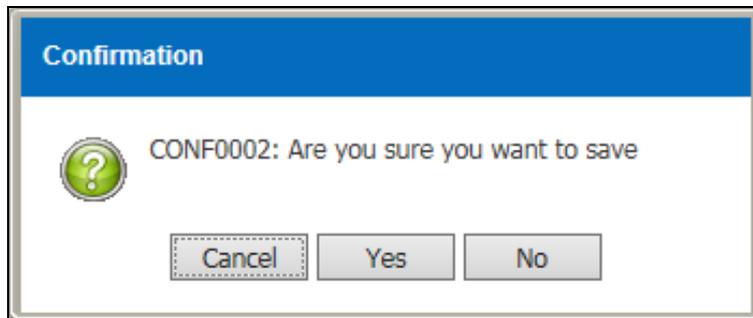


Figure 3.18.1-5 Confirmation Message

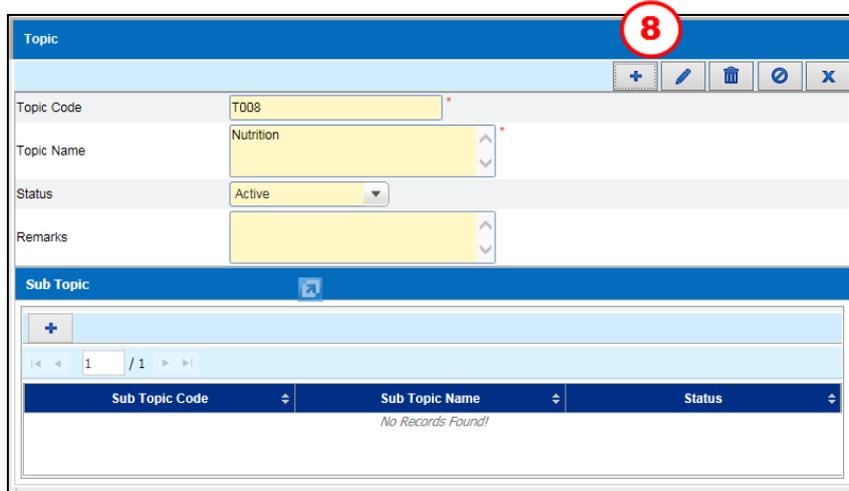


Figure 3.18.1-6 Topic

**STEP 8**

Click on the  button to edit the record

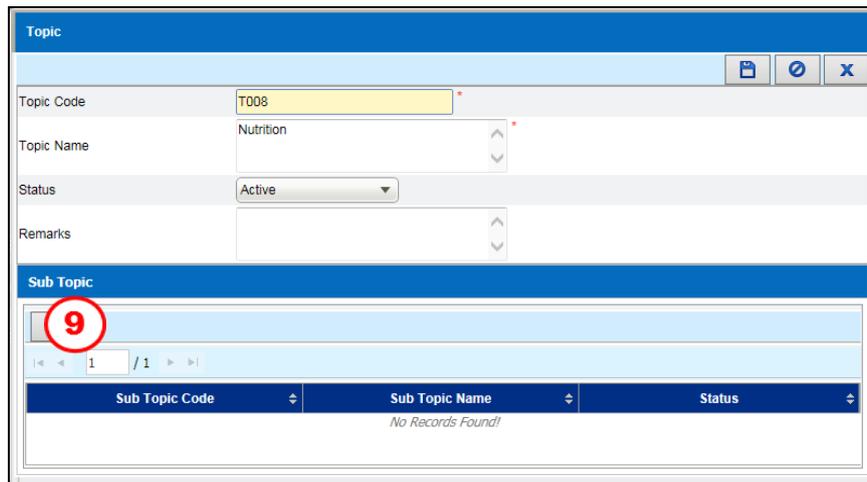


Figure 3.18.1-7 Topic

**STEP 9**

Click on the  button and Sub Topic screen will be displayed as figure 3.18.1-7

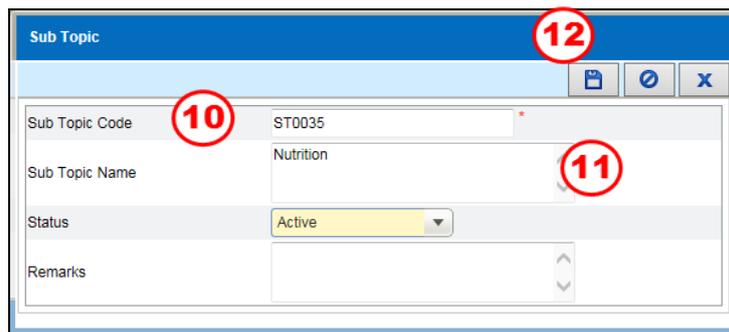


Figure 3.18.1-8 Sub Topic

**STEP 10**

Enter **Sub Topic Code**

**STEP 11**

Enter **Sub Topic Name**

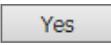
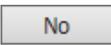
**Note**

**Remarks** is an optional field

**STEP 12**

Click on the  button to save the record

**Note**

- System will display a Confirmation Message as Figure 3.18.1-9
- Click on the  button to save the transaction
- Click on the  or  button to cancel the saved record

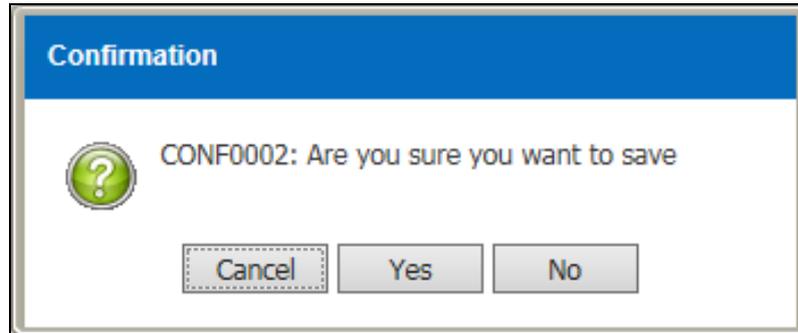


Figure 3.18.1-9 Confirmation Message

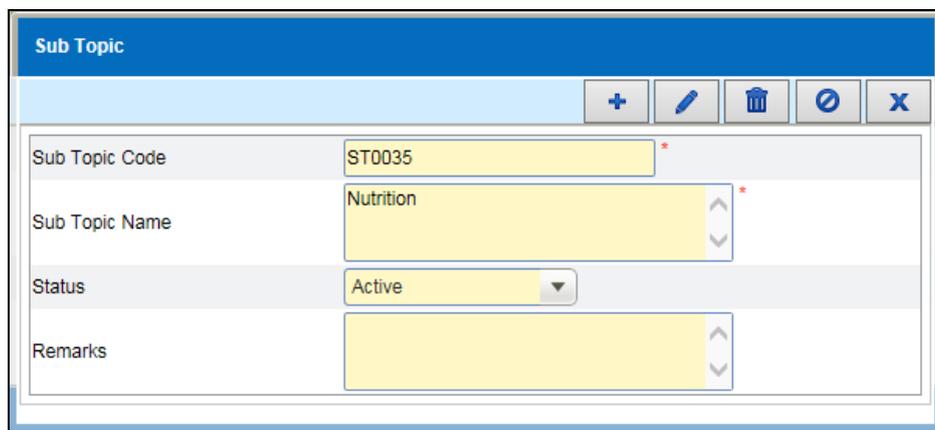


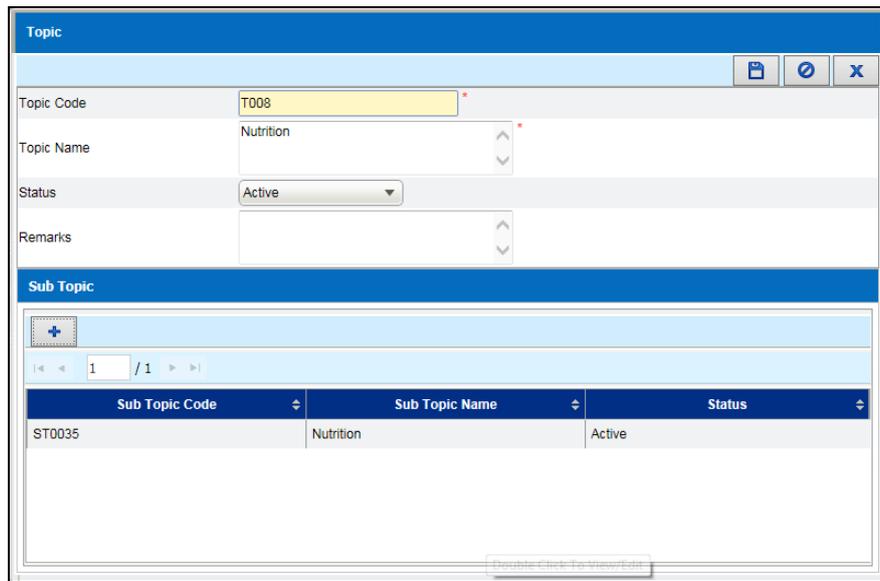
Figure 3.18.1-10 Sub Topic

**Note**

User is allow to add more than 1 Sub Topic by click on the  button and follow **STEP 10** to **STEP 12**

**Note**

Click on the  button to close the screen



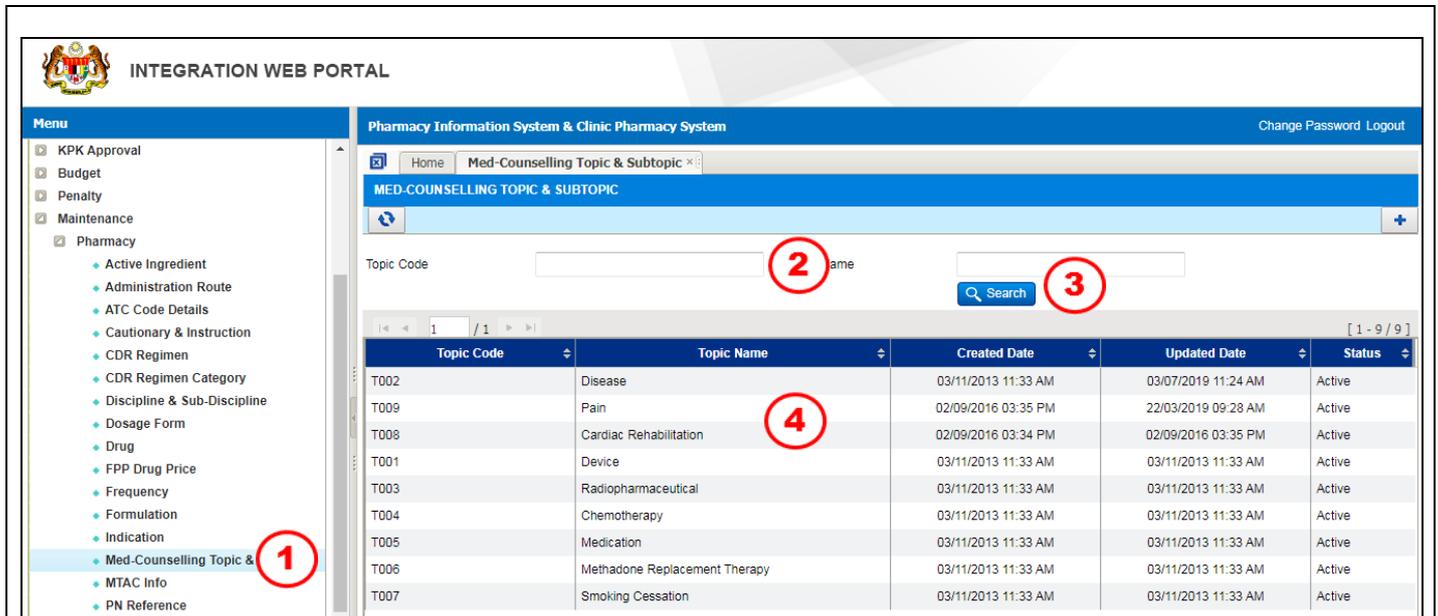
The screenshot shows a software interface for maintaining topics and sub-topics. The 'Topic' section includes fields for Topic Code (T008), Topic Name (Nutrition), Status (Active), and Remarks. The 'Sub Topic' section features a table with one entry: ST0035, Nutrition, Active. A 'Disable Click To View/Edit' button is located at the bottom right of the sub-topic table.

| Sub Topic Code | Sub Topic Name | Status |
|----------------|----------------|--------|
| ST0035         | Nutrition      | Active |

Figure 3.18.1-11 Topic

### 3.18.2 Modify Med-Counselling Topic & Subtopic

To Modify record for Med-Counselling Topic & Subtopic, perform the steps below:



INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home Med-Counselling Topic & Subtopic

MED-COUNSELLING TOPIC & SUBTOPIC

Topic Code   Name

Search

| Topic Code | Topic Name                    | Created Date        | Updated Date        | Status |
|------------|-------------------------------|---------------------|---------------------|--------|
| T002       | Disease                       | 03/11/2013 11:33 AM | 03/07/2019 11:24 AM | Active |
| T009       | Pain                          | 02/09/2016 03:35 PM | 22/03/2019 09:28 AM | Active |
| T008       | Cardiac Rehabilitation        | 02/09/2016 03:34 PM | 02/09/2016 03:35 PM | Active |
| T001       | Device                        | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T003       | Radiopharmaceutical           | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T004       | Chemotherapy                  | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T005       | Medication                    | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T006       | Methadone Replacement Therapy | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T007       | Smoking Cessation             | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |

Figure 3.18.2-1 Med-Counselling Topic & Subtopic

#### STEP 1

Click on 'Maintenance' menu, followed by 'Pharmacy' and click on 'Med-Counselling Topic & Subtopic'

#### STEP 2

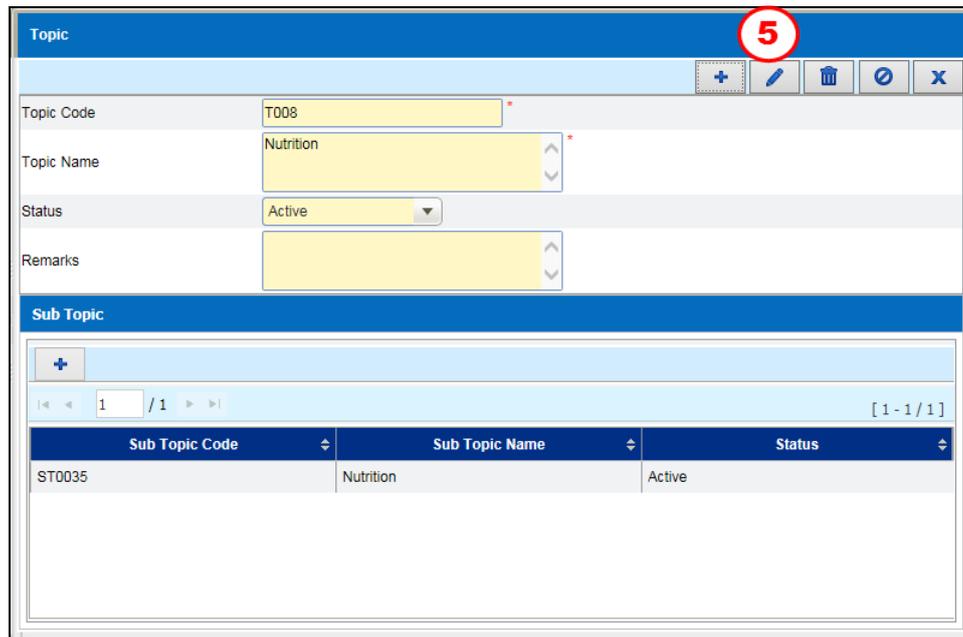
Search existing record by entering **Topic Code** and/or **Topic Name**

#### STEP 3

Click on the  button and system will display related record

#### STEP 4

Click on the selected record



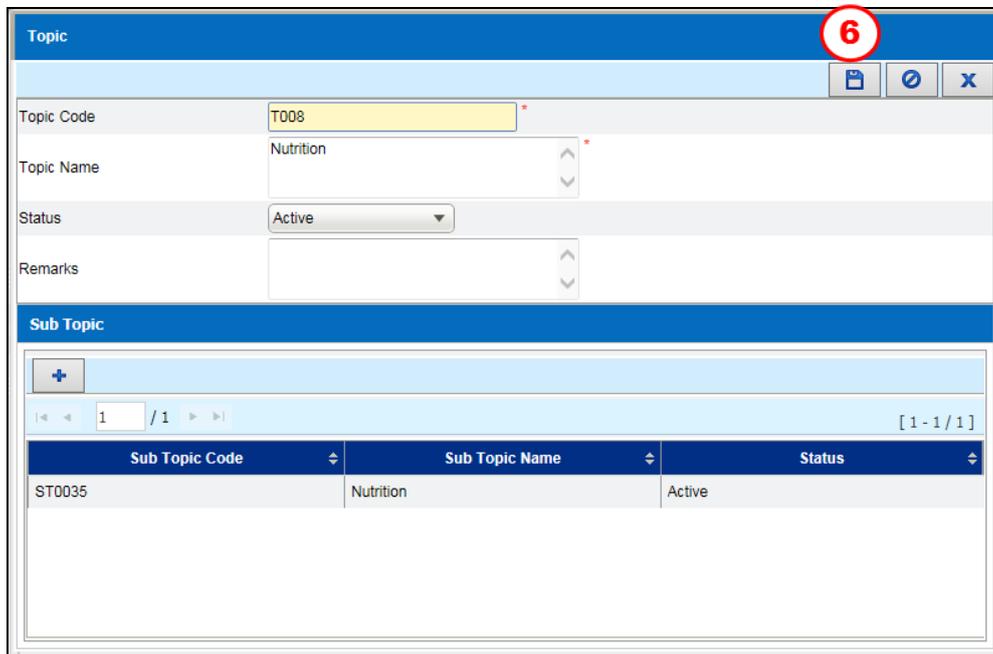
The screenshot shows a web form titled "Topic". At the top right, there is a toolbar with a plus sign, an edit icon (pencil), a trash icon, a refresh icon, and a close icon (X). A red circle with the number "5" is placed over the edit icon. Below the toolbar are four input fields: "Topic Code" with the value "T008", "Topic Name" with the value "Nutrition", "Status" with a dropdown menu set to "Active", and "Remarks" with an empty text area. Below these fields is a section titled "Sub Topic" which contains a table with one row of data.

| Sub Topic Code | Sub Topic Name | Status |
|----------------|----------------|--------|
| ST0035         | Nutrition      | Active |

Figure 3.18.2-2 Topic

**STEP 5**

Click on the  button to edit the record



This screenshot is identical to Figure 3.18.2-2, but the edit icon in the top right toolbar is now highlighted with a red circle containing the number "6".

Figure 3.18.2-3 Topic

**Note**

User is allowing to edit:

- **Topic Name**
- **Status**
- **Remarks**
- **Sub Topic**

### STEP 6

Click on the  button to save the edited record

#### Note

- System will display a Confirmation Message as Figure 3.18.2-4
- Click on the  button to save the edited record
- Click on the  or  button to cancel the edited record

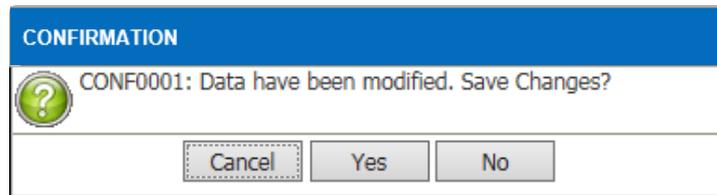


Figure 3.18.2-4 Confirmation Message

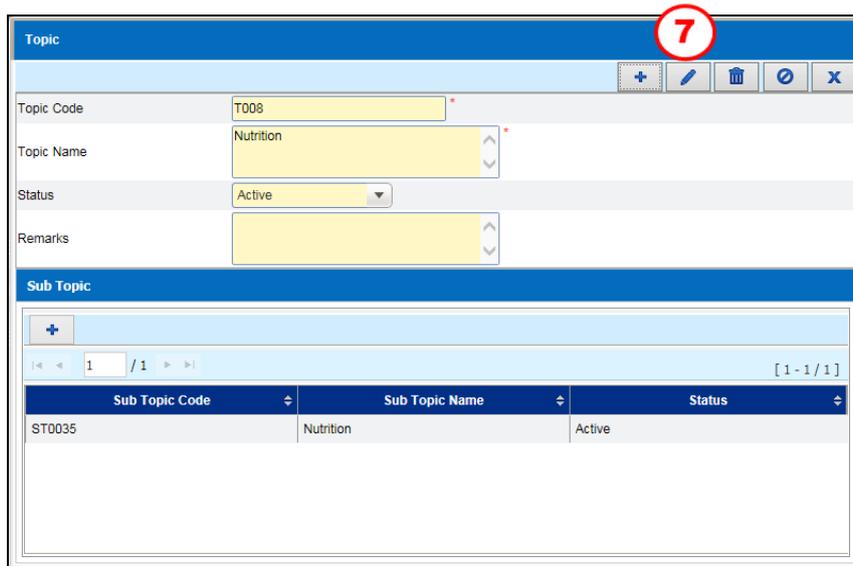


Figure 3.18.2-5 Topic

### STEP 7

Click on the  button to delete the record

#### Note

- System will display a Confirmation Message as Figure 3.14.2-6
- Click on the  button to delete the record

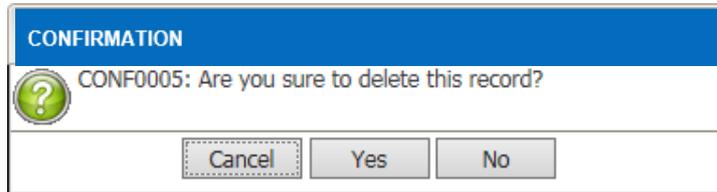
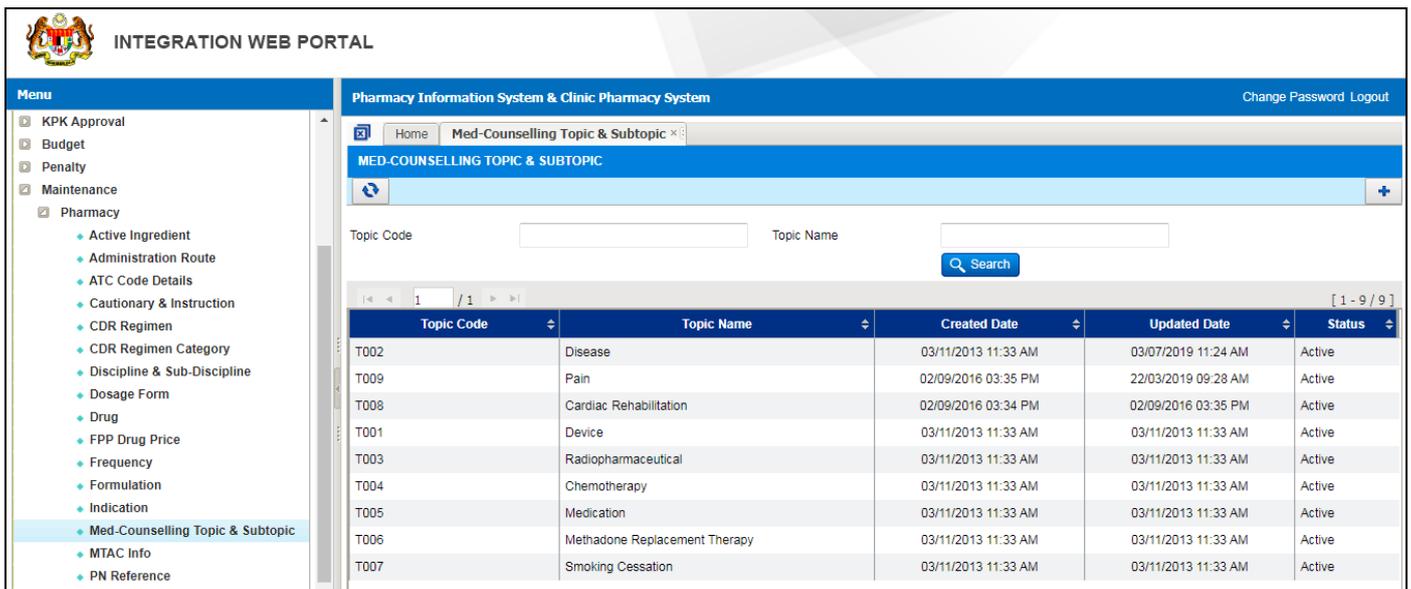


Figure 3.18.2-6 Confirmation Message

- The status of the record will be **Inactive** as figure 3.18.2-7



The screenshot shows the 'INTEGRATION WEB PORTAL' interface. On the left is a 'Menu' sidebar with 'Pharmacy' expanded to 'Med-Counselling Topic & Subtopic'. The main content area is titled 'Pharmacy Information System & Clinic Pharmacy System' and contains a search interface for 'MED-COUNSELLING TOPIC & SUBTOPIC'. Below the search fields is a table listing various topics.

| Topic Code | Topic Name                    | Created Date        | Updated Date        | Status |
|------------|-------------------------------|---------------------|---------------------|--------|
| T002       | Disease                       | 03/11/2013 11:33 AM | 03/07/2019 11:24 AM | Active |
| T009       | Pain                          | 02/09/2016 03:35 PM | 22/03/2019 09:28 AM | Active |
| T008       | Cardiac Rehabilitation        | 02/09/2016 03:34 PM | 02/09/2016 03:35 PM | Active |
| T001       | Device                        | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T003       | Radiopharmaceutical           | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T004       | Chemotherapy                  | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T005       | Medication                    | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T006       | Methadone Replacement Therapy | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |
| T007       | Smoking Cessation             | 03/11/2013 11:33 AM | 03/11/2013 11:33 AM | Active |

Figure 3.18.2-7 Med-Counselling Topic & Sub Topic

## 4.0 Acronyms

| Abbreviation | Definition                                |
|--------------|---|
| MOH          | Ministry of Health                        |
| KKM          | Kementerian Kesihatan Malaysia            |
| PhIS         | Pharmacy Information System               |
| CPS          | Clinical Pharmacy System                  |
| PKU          | Packaging Keeping Unit                    |
| SKU          | Store Keeping Unit                        |
| BPF          | Bahagian Perkhidmatan Farmasi             |
| NPRA         | National Pharmaceutical Regulatory Agency |

## 5.0 Link to IWP Modules

| No | Module                           | PDF Links                  |
|----|----------------------------------|----------------------------|
| 1  | <i>Notification</i>              | <a href="#">Click Here</a> |
| 2  | <i>Frequency Asked Question</i>  | <a href="#">Click Here</a> |
| 3  | <i>Drug Information</i>          | <a href="#">Click Here</a> |
| 4  | <i>Contract</i>                  | <a href="#">Click Here</a> |
| 5  | <i>KPK Approval</i>              | <a href="#">Click Here</a> |
| 6  | <i>Maintenance – Pharmacy</i>    | <a href="#">Click Here</a> |
| 7  | <i>Maintenance – Inventory</i>   | <a href="#">Click Here</a> |
| 8  | <i>Maintenance – General</i>     | <a href="#">Click Here</a> |
| 9  | <i>Maintenance – HQ Security</i> | <a href="#">Click Here</a> |