



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

User Manual Integrated Web Portal (IWP) Maintenance - Pharmacy

Version	: 8th EDITION
Document ID	: HQ_U.MANUAL_IWP_MAINTENANCE_PHAR



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Reference ID : HQ_U.MANUAL_IWP_MAINTENANCE_PHAR_8th EDITION

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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

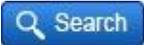
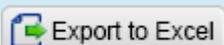
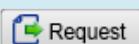
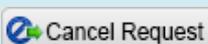
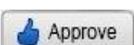
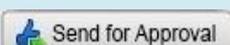
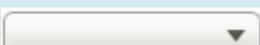
1.3 Organised Sections

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

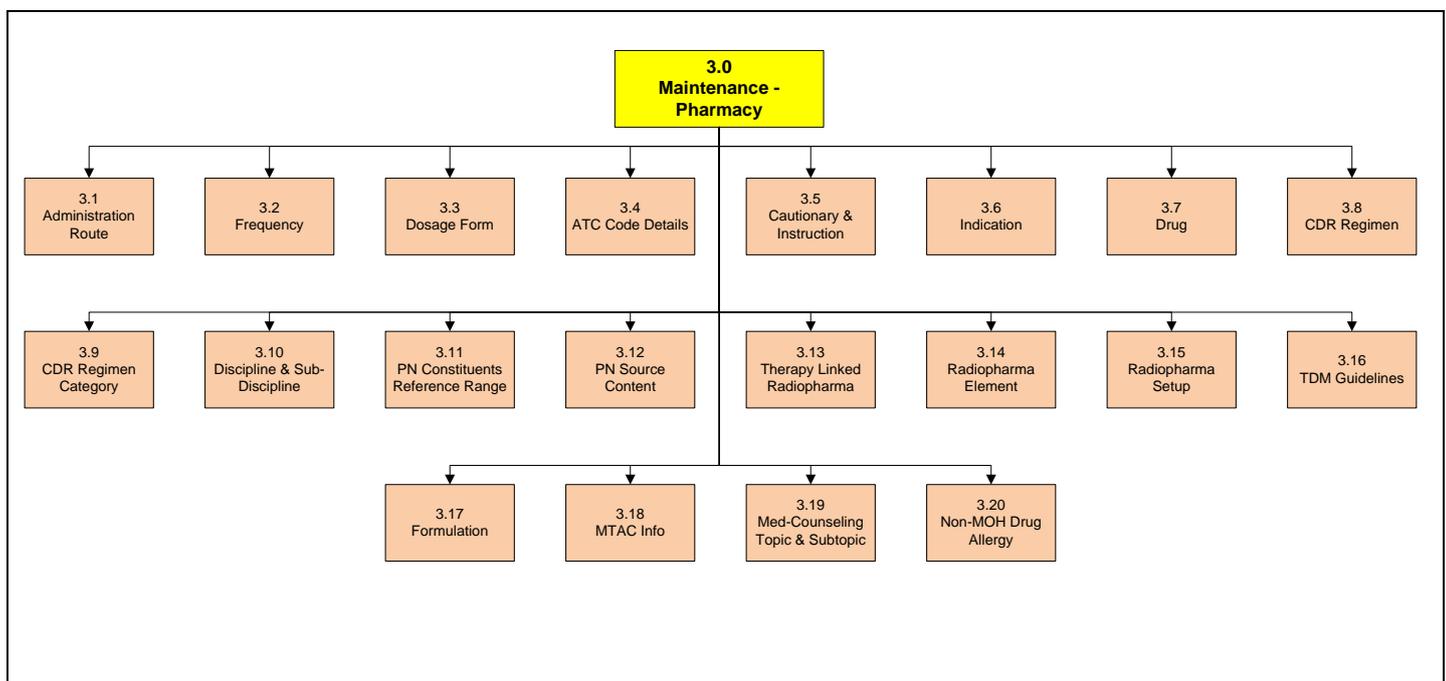


Figure 3.0

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:

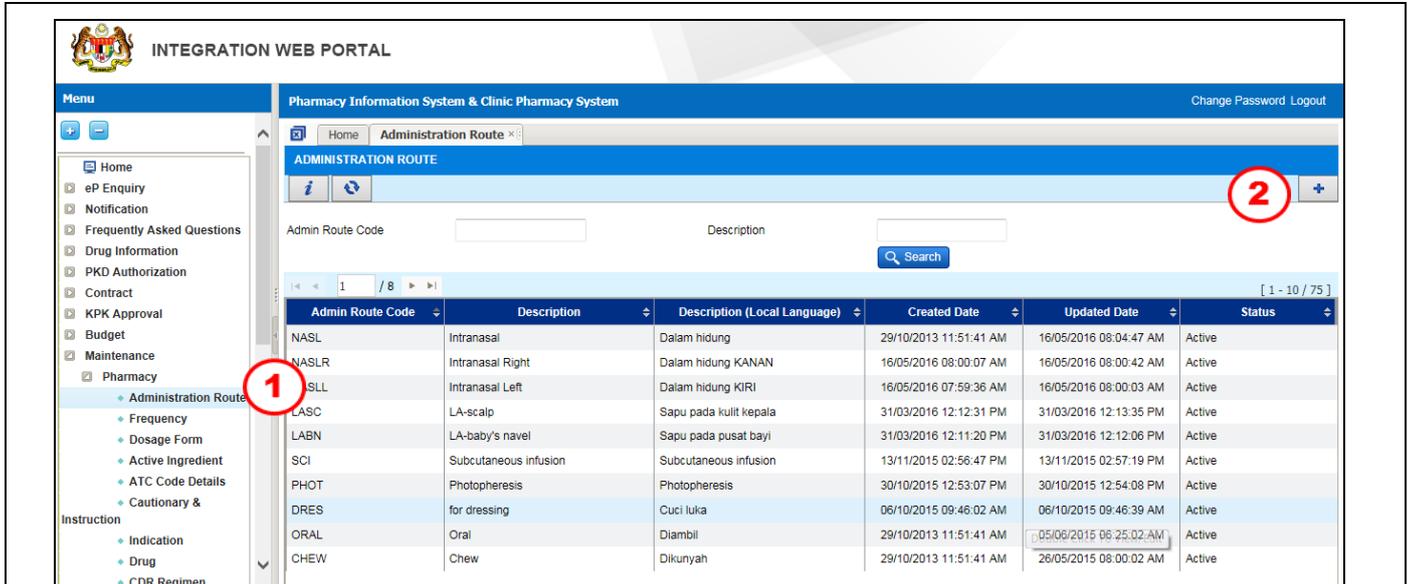


Figure 3.1.1-1 Administration Route Listing Page

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

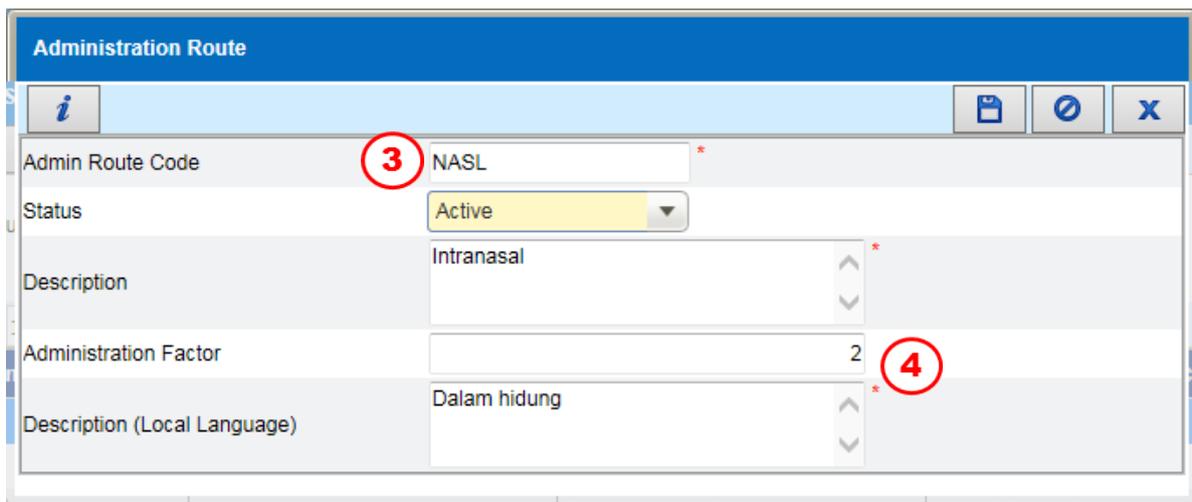


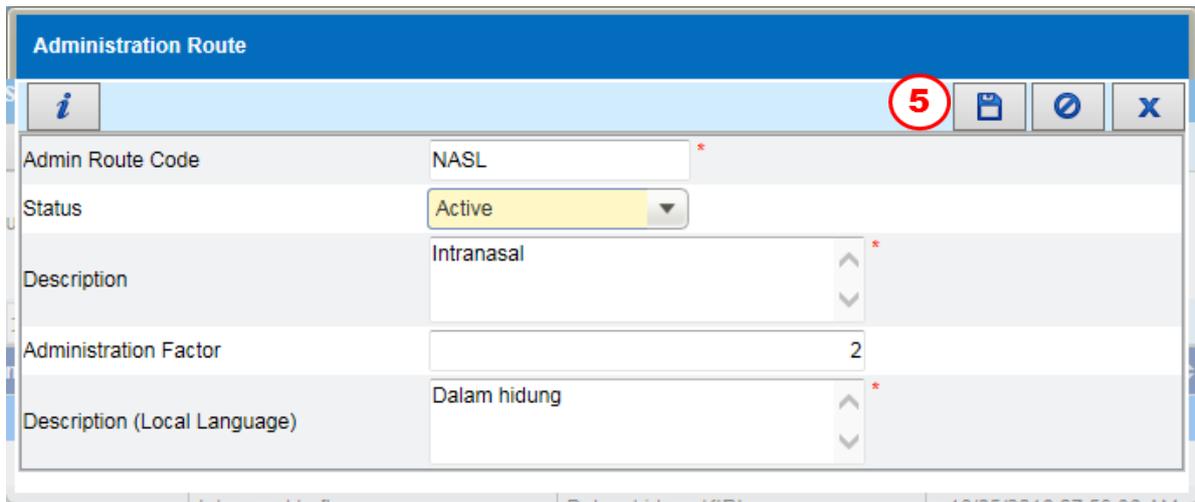
Figure 3.1.1-2 Administration Route Listing Page

STEP 3

Enter **Admin Route Code**

STEP 4

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



The screenshot shows a software window titled "Administration Route". The window has a blue header bar with an information icon (i) on the left and a toolbar on the right containing a save icon (floppy disk), a refresh icon (circular arrow), and a close icon (X). A red circle with the number "5" is drawn around the save icon. Below the header, the form contains the following fields:

Admin Route Code	NASL *
Status	Active
Description	Intranasal *
Administration Factor	2
Description (Local Language)	Dalam hidung *

Figure 3.1.1-3 Administration Route Listing Page

STEP 5

Click on the  button to save the record

Note

- System will display a Confirmation Message as Figure 3.1.1-4

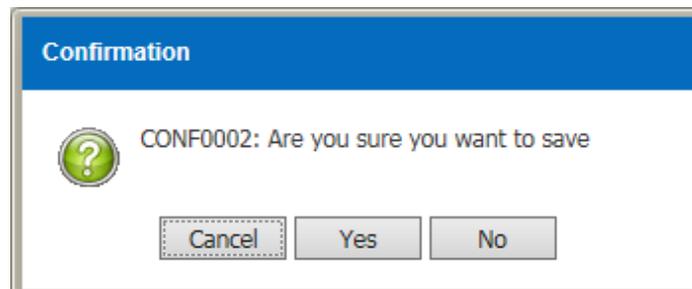
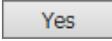


Figure 3.1.1-4 Confirmation Message

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

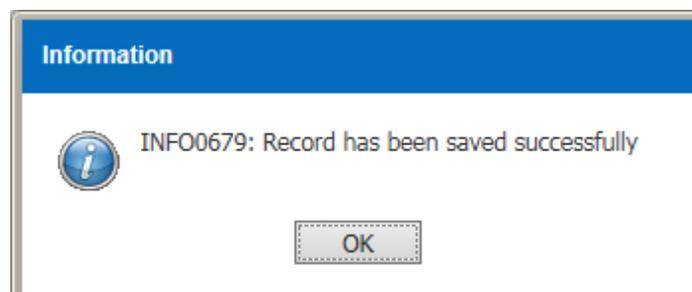


Figure 3.1.1-5 Information Message

- Click on the  button to confirmed the record

3.1.2 Modify Administration Route

To modify Administration Route records, perform the steps below:

Admin Route Code	Description	Description (Local Language)	Created Date	Updated Date	Status
NASL	Intranasal	Dalam hidung	29/10/2013 11:51:41 AM	16/05/2016 08:04:47 AM	Active
NASLR	Intranasal Right	Dalam hidung KANAN	16/05/2016 08:00:07 AM	16/05/2016 08:00:42 AM	Active
SLL	Intranasal Left	Dalam hidung KIRI	16/05/2016 07:59:36 AM	16/05/2016 08:00:03 AM	Active
LASC	LA-scalp	Sapu pada kulit kepala	31/03/2016 12:12:31 PM	31/03/2016 12:13:35 PM	Active
LABN	LA-baby's navel	Sapu pada pusat bayi	31/03/2016 12:11:20 PM	31/03/2016 12:12:06 PM	Active
SCI	Subcutaneous infusion	Subcutaneous infusion	13/11/2015 02:56:47 PM	13/11/2015 02:57:19 PM	Active
PHOT	Photopheresis	Photopheresis	30/10/2015 12:53:07 PM	30/10/2015 12:54:08 PM	Active
DRES	for dressing	Cuci luka	06/10/2015 09:46:02 AM	06/10/2015 09:46:39 AM	Active
ORAL	Oral	Diambil	29/10/2013 11:51:41 AM	05/06/2015 06:25:02 AM	Active
CHEW	Chew	Dikunyah	29/10/2013 11:51:41 AM	26/05/2015 08:00:02 AM	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: NASLR *

Status: Active

Description: Intranasal Right *

Administration Factor: 1

Description (Local Language): Dalam hidung KANAN *

Figure 3.1.2-2 Administration Route

STEP 3

Click on the button to edit the record

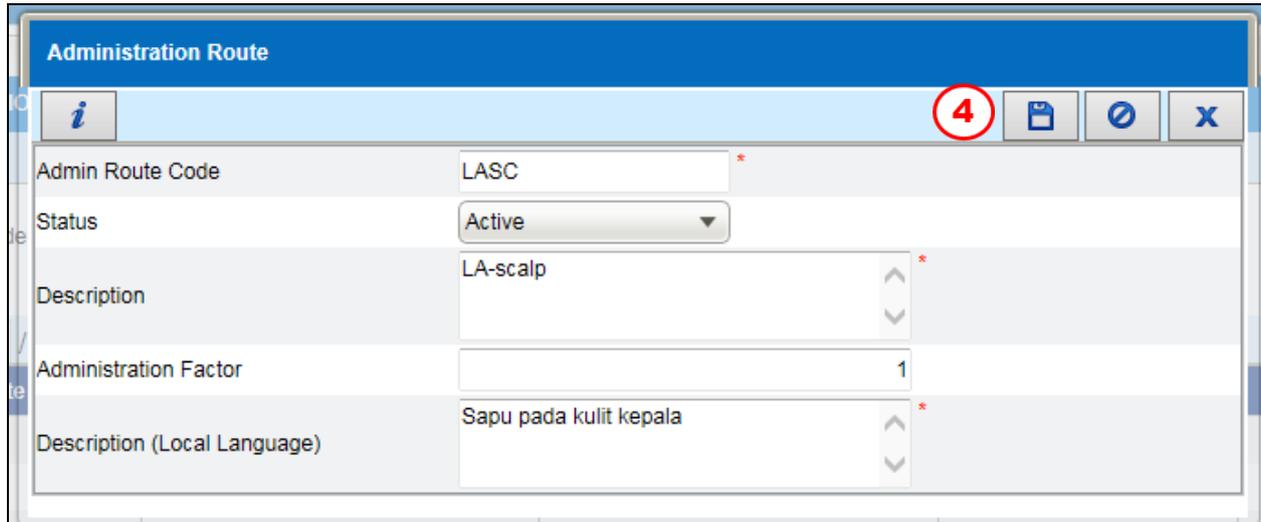


Figure 3.1.2-3 Administration Route

Note

User is allow to edit:

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

STEP 4

Click on the  button to save the edited record

Note

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

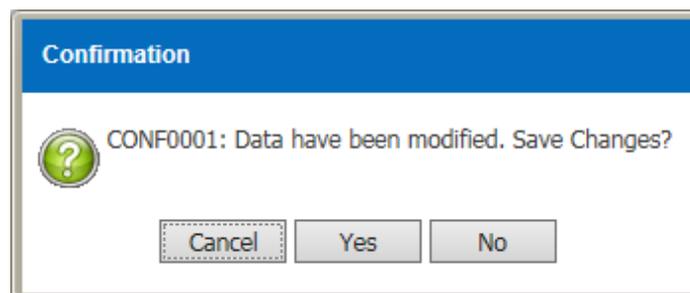
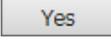


Figure 3.1.2-4 Confirmation Message

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

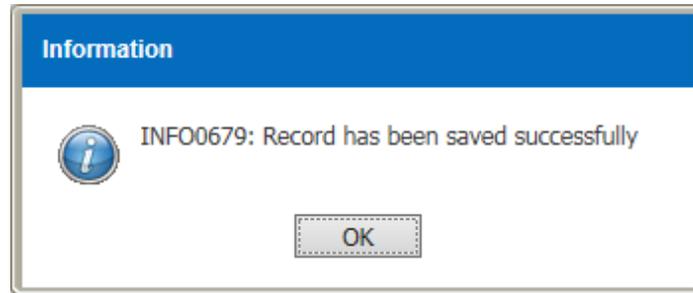


Figure 3.1.2-5 Information Message

- 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:

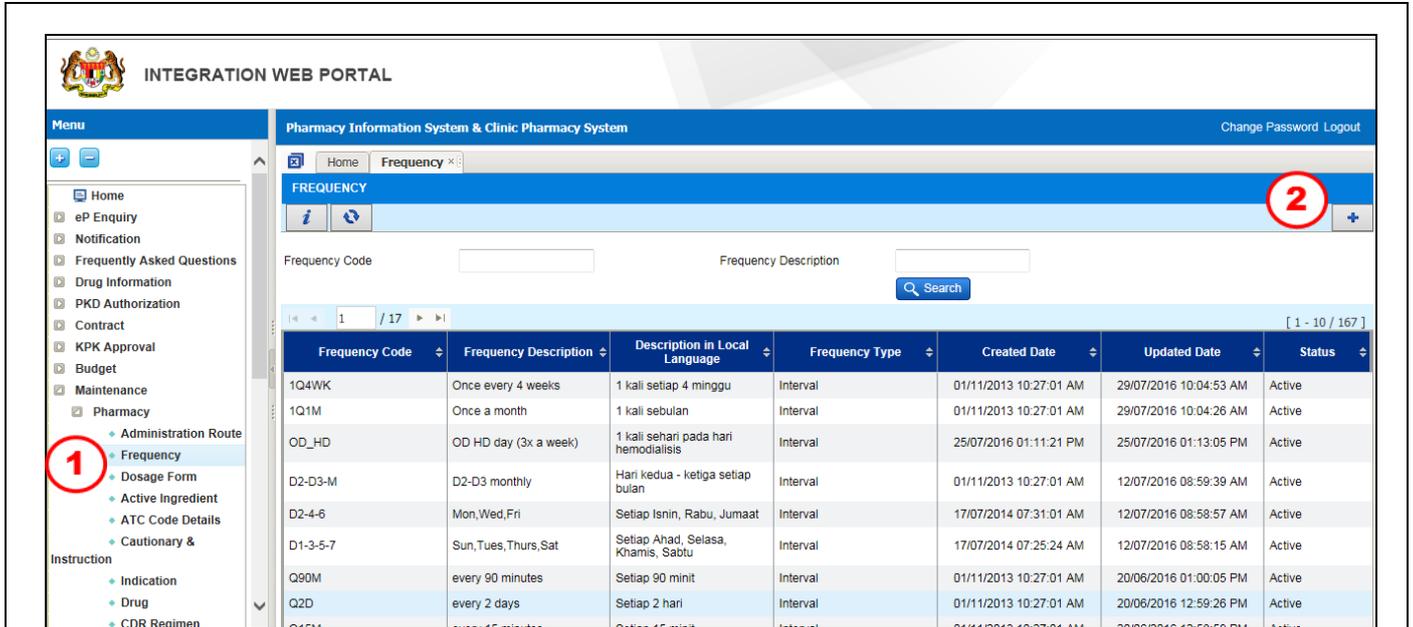


Figure 3.2.1-1 Frequency Listing Page

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

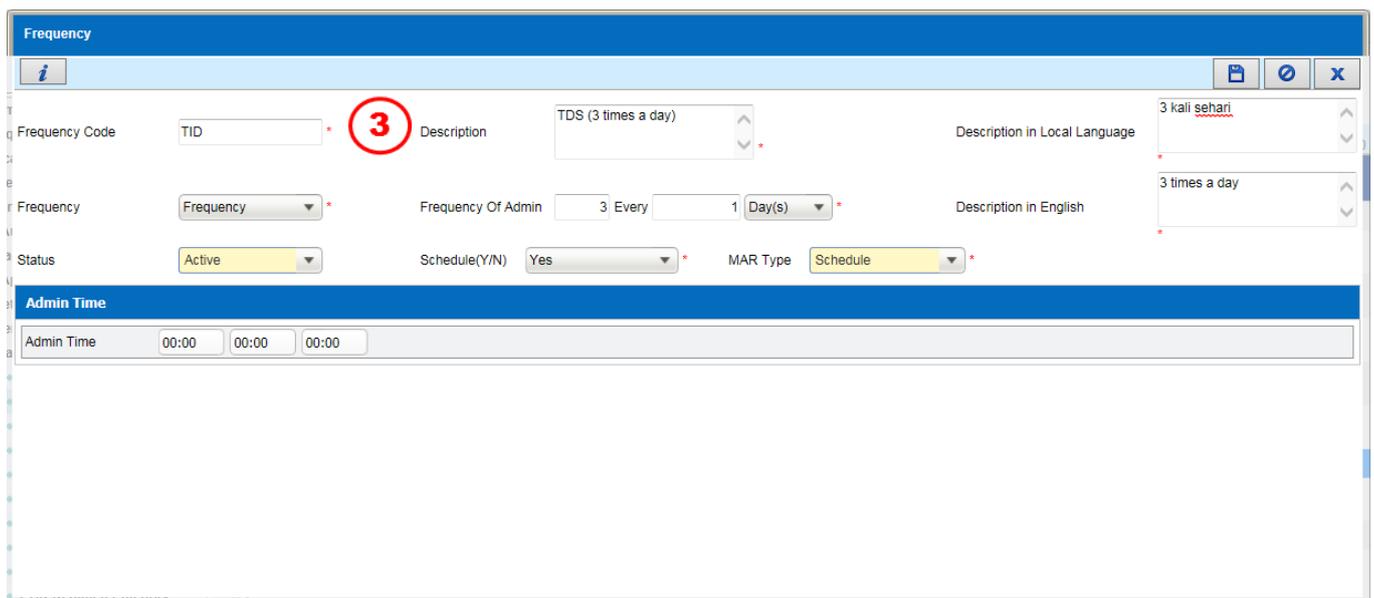


Figure 3.2.1-2 Frequency

STEP 3

Enter **Frequency** and **Description**

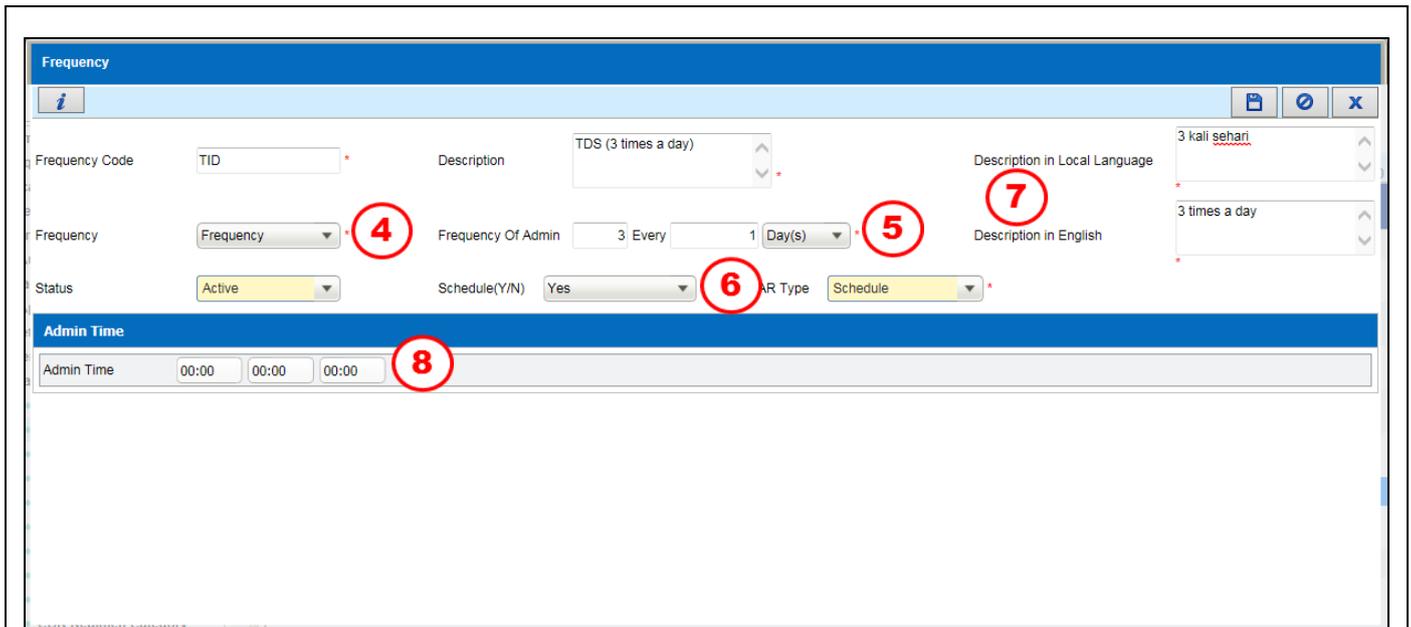


Figure 3.2.1-3 Frequency

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

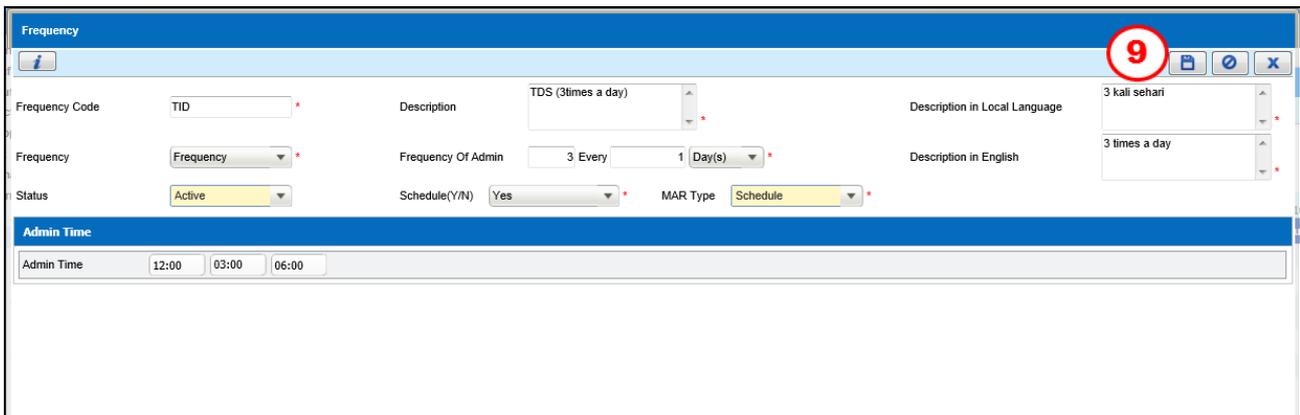


Figure 3.2.1-4 Frequency

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

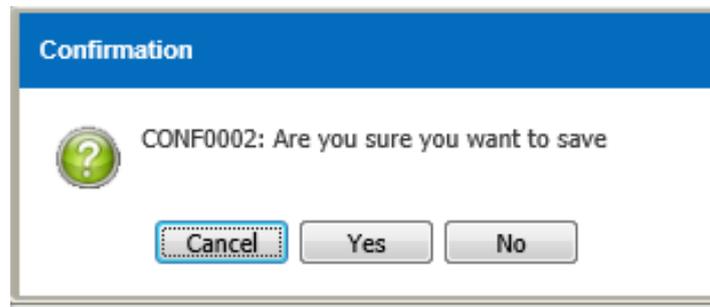


Figure 3.2.1-5 Confirmation Message

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

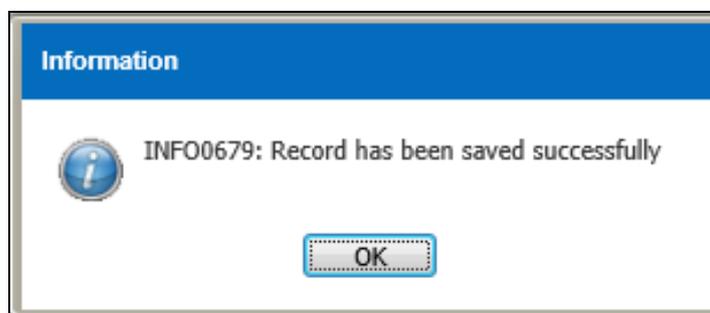
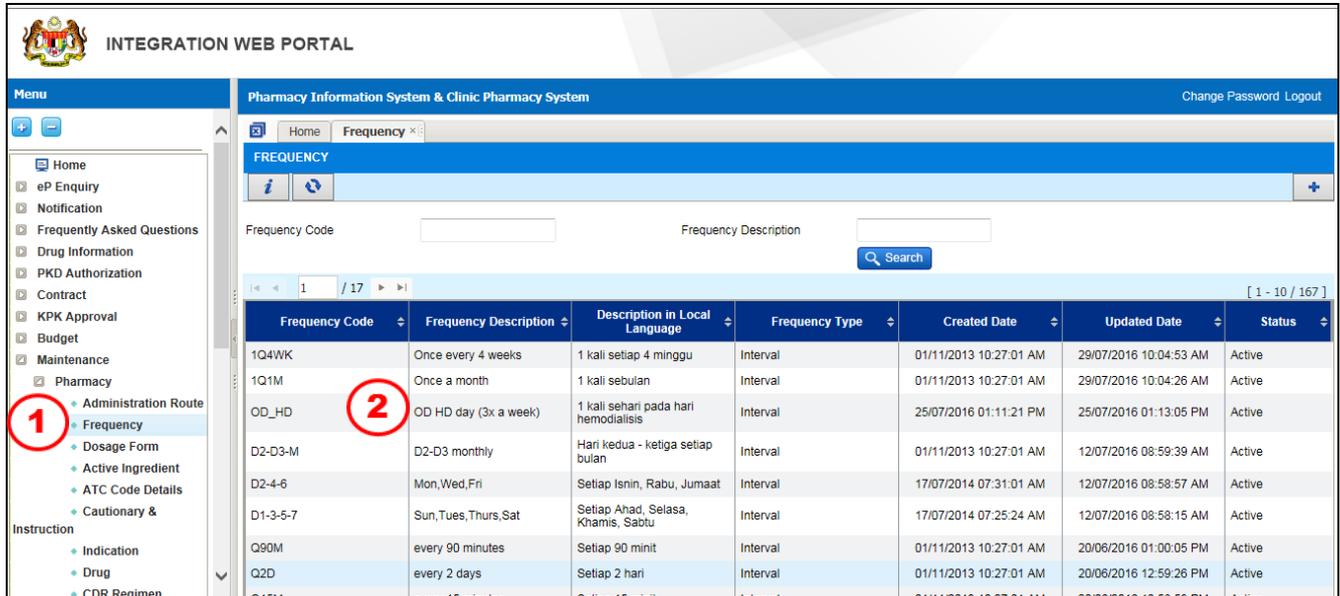


Figure 3.2.1-6 Information Message

- 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
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

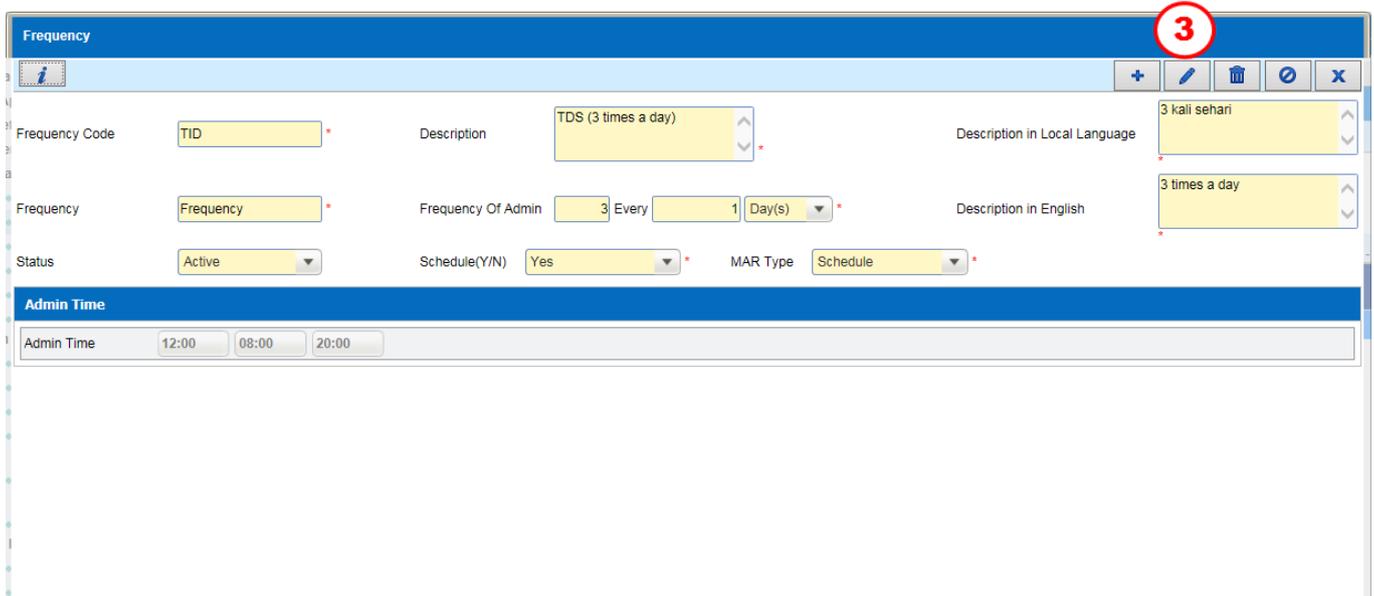
Figure 3.2.2-1 Frequency Listing Page

STEP 1

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

STEP 2

Double click on selected record



Frequency Code: TID
 Description: TDS (3 times a day)
 Description in Local Language: 3 kali sehari
 Frequency: Frequency
 Frequency Of Admin: 3 Every 1 Day(s)
 Description in English: 3 times a day
 Status: Active
 Schedule(Y/N): Yes
 MAR Type: Schedule

Admin Time: 12:00 08:00 20:00

Figure 3.2.2-2 Frequency.

STEP 3

Click on the  button to edit the record

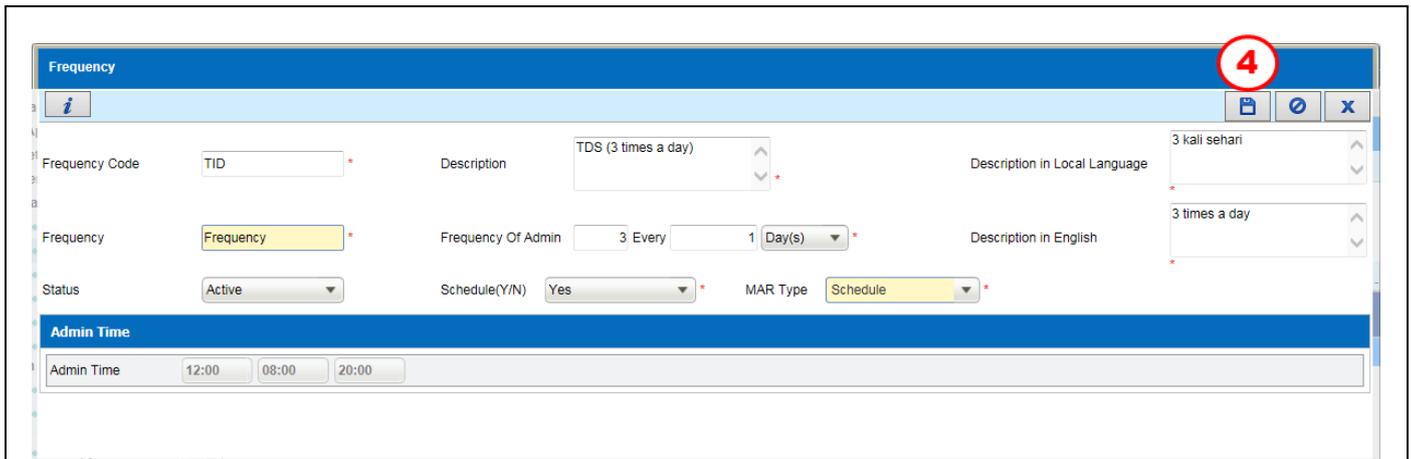


Figure 3.2.2-3 Frequency

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

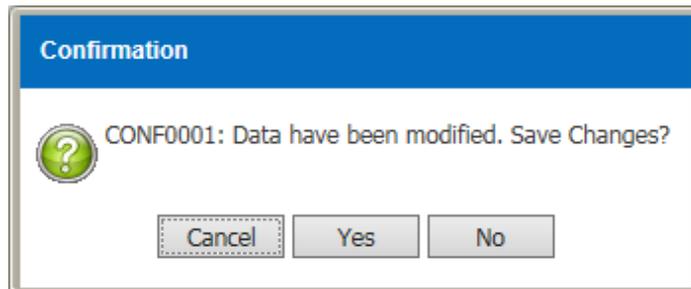
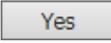
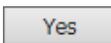


Figure 3.2.2-4 Confirmation Message

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

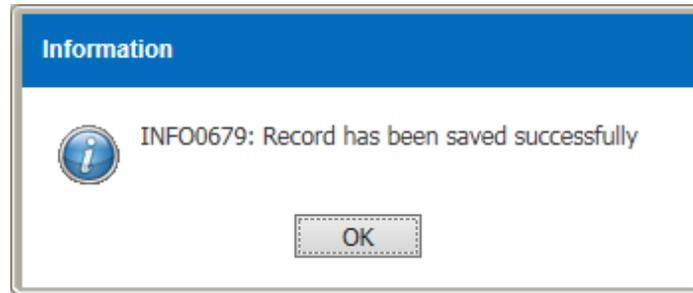


Figure 3.2.2-5 Information Message

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:

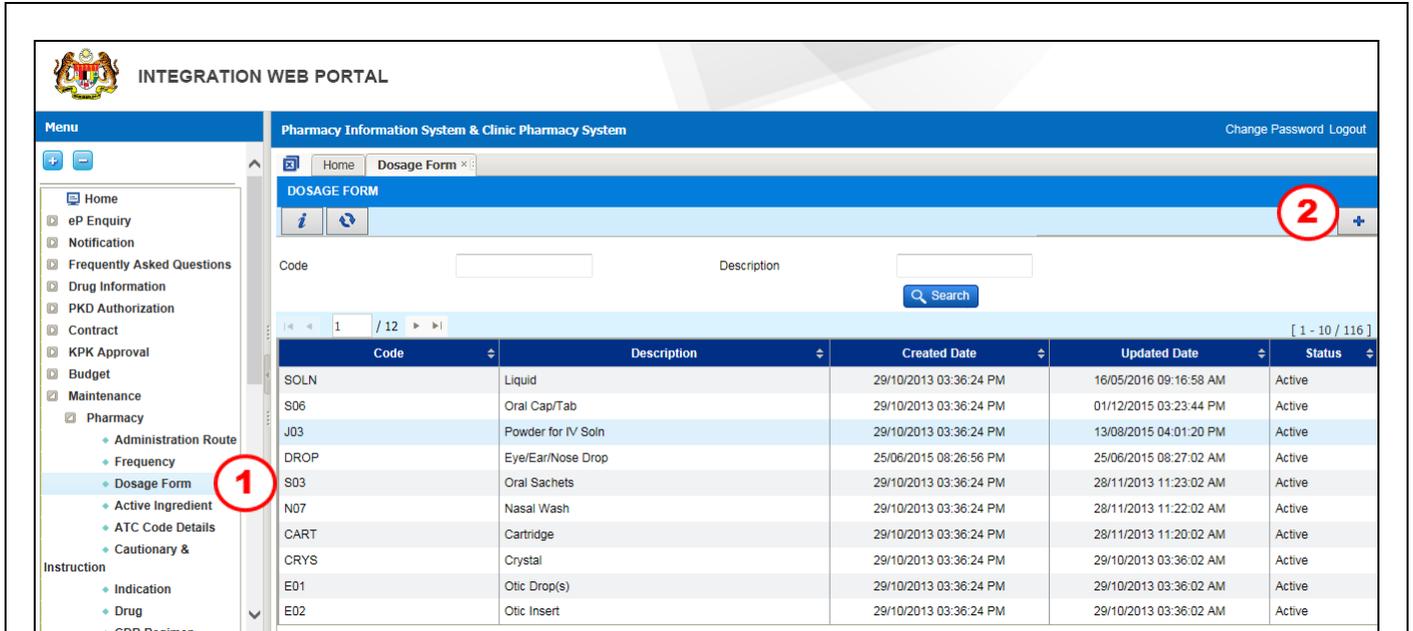


Figure 3.3.1-1 Dosage Form Listing Page

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

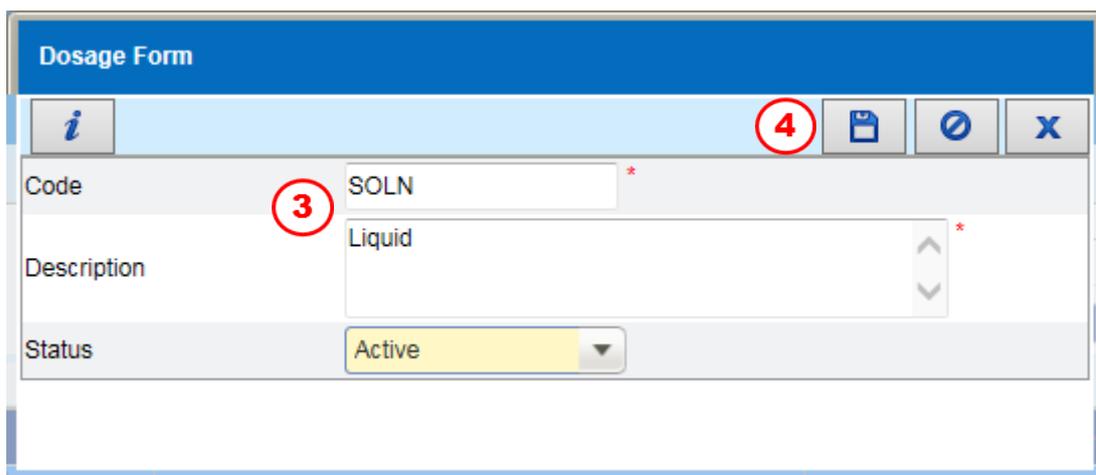


Figure 3.3.1-2 Add Dosage Form

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

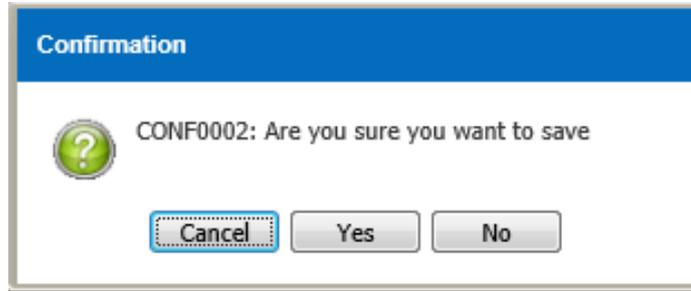
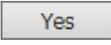
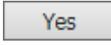


Figure 3.3.1-3 Confirmation Message

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

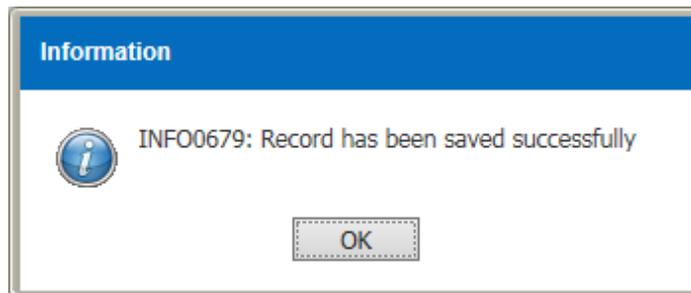
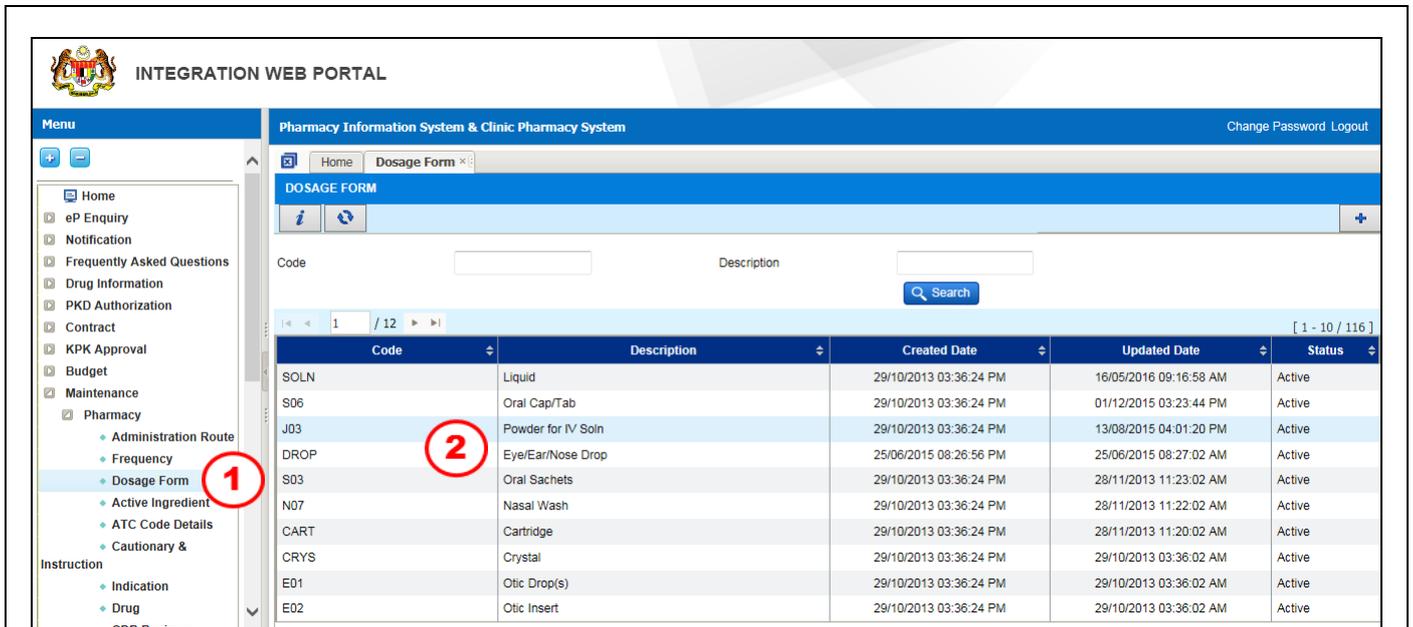


Figure 3.3.1-4 Information Message

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
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
DROP	Eye/Ear/Nose Drop	25/06/2015 08:26:56 PM	25/06/2015 08:27:02 AM	Active
S03	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

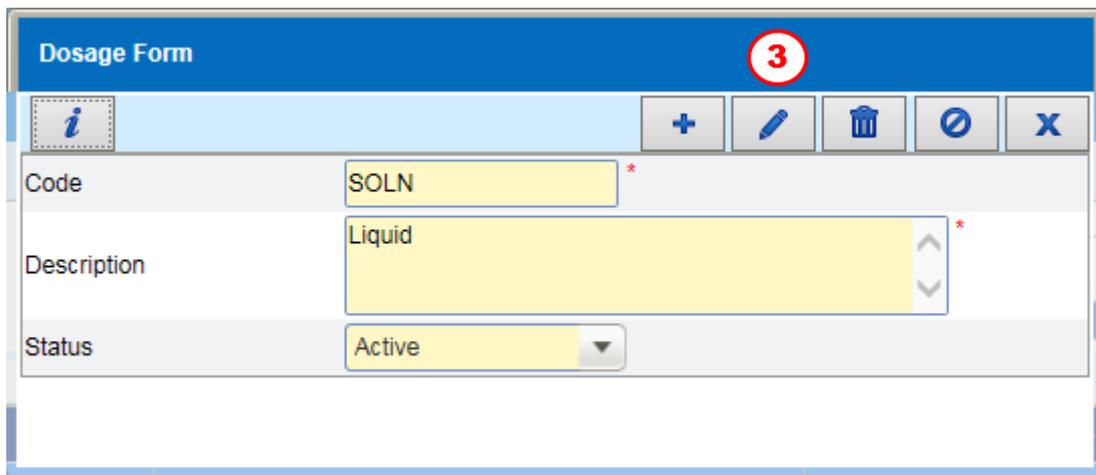


Figure 3.3.2-2 Add Dosage Form

STEP 3

Click on the  button to edit the record

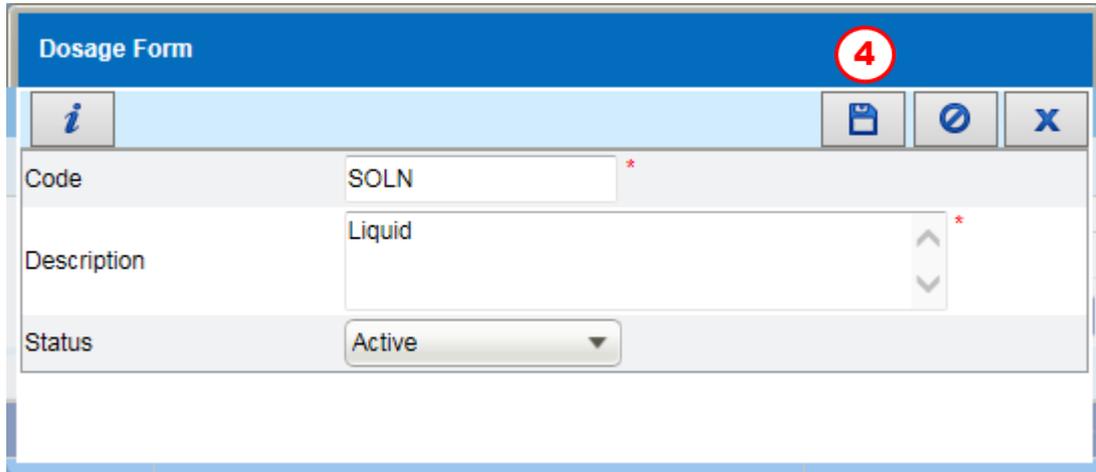


Figure 3.3.2-2 Add Dosage Form

Note

User is allow 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

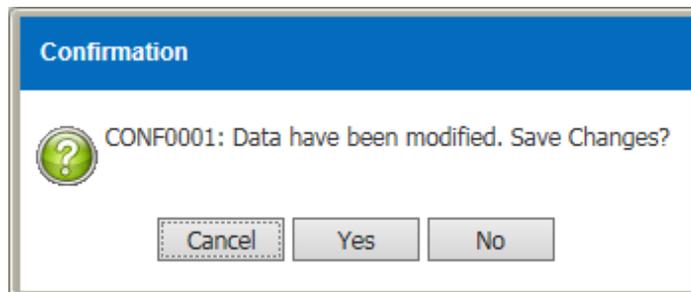
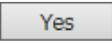
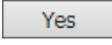


Figure 3.3.2-3 Confirmation Message

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

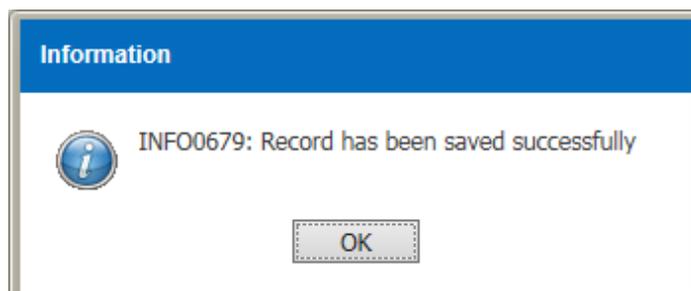
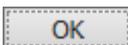


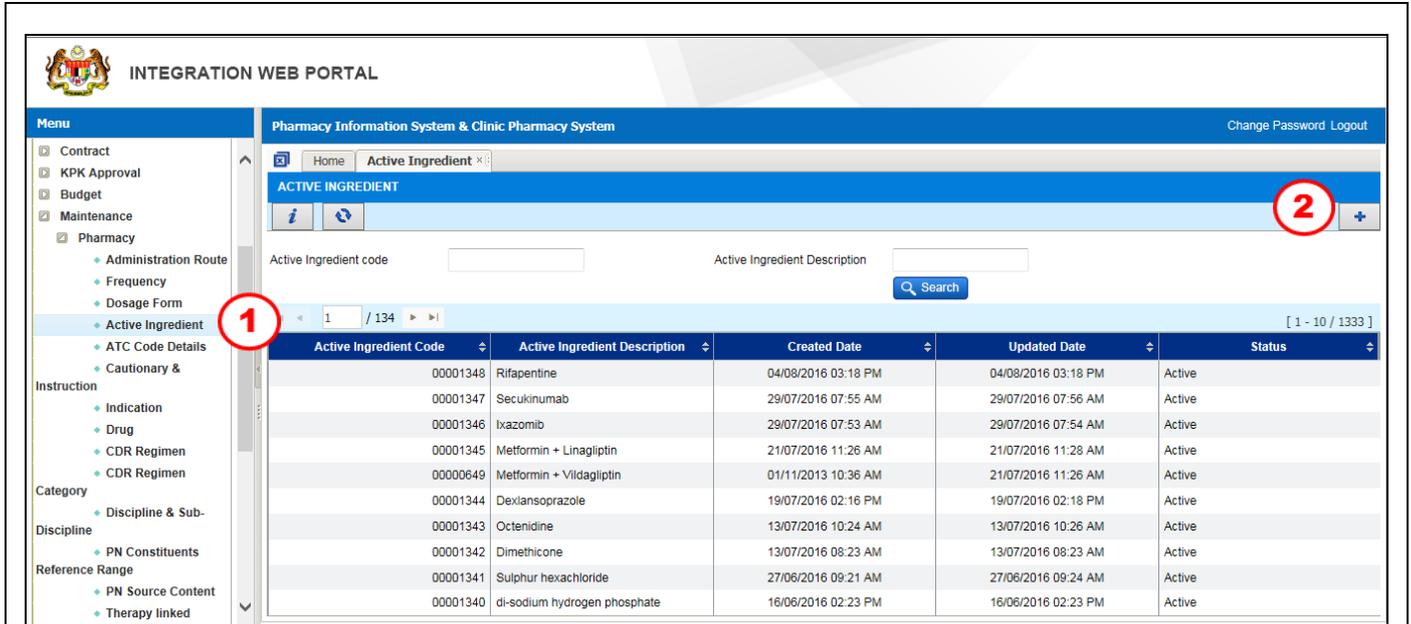
Figure 3.3.2-4 Information Message

- 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	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 3.4.1-1 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

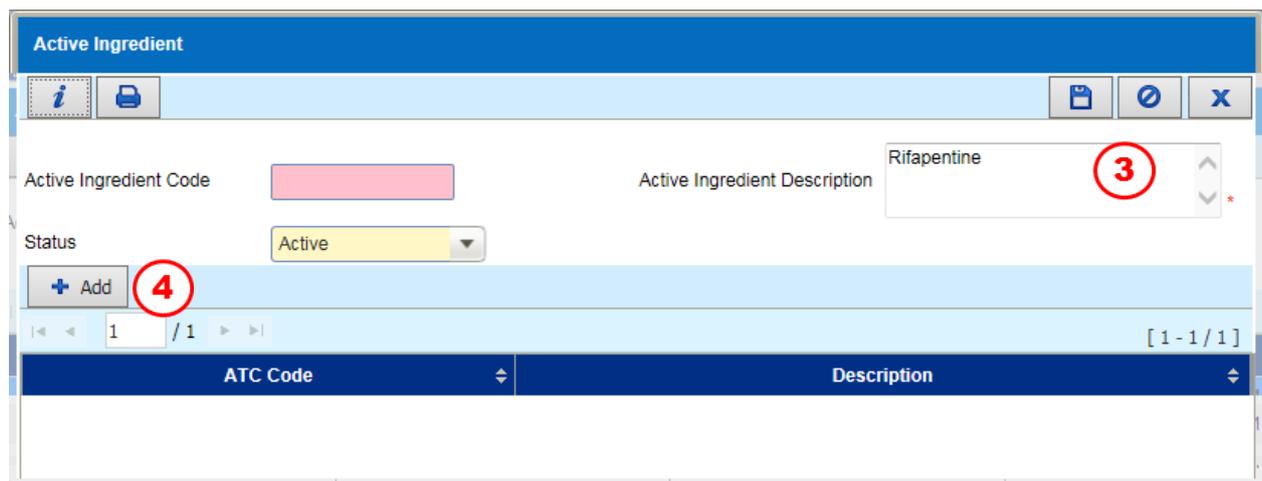


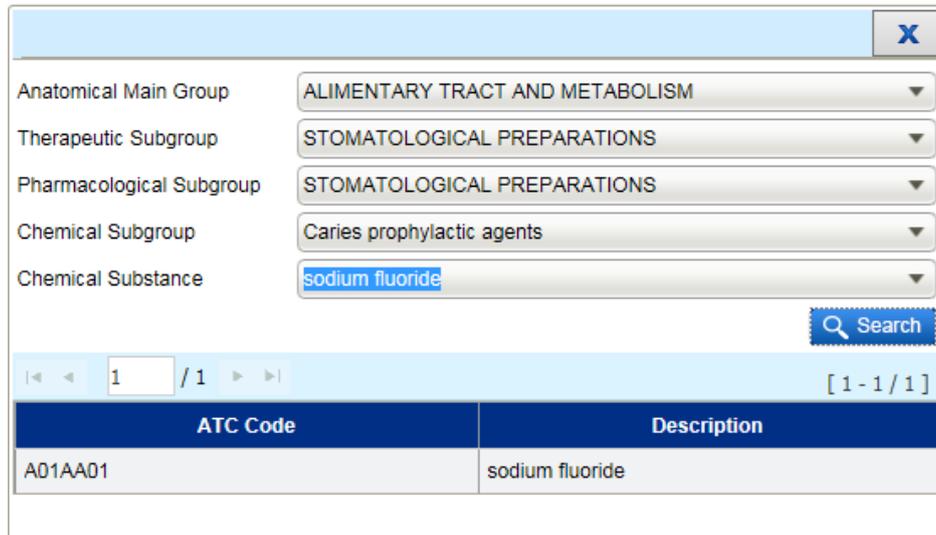
Figure 3.4.1-2 Add Active Ingredient

STEP 3

Enter **Active Ingredient Description**

STEP 4

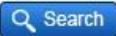
Click on the  button and new window will be displayed as Figure 3.4.1-3

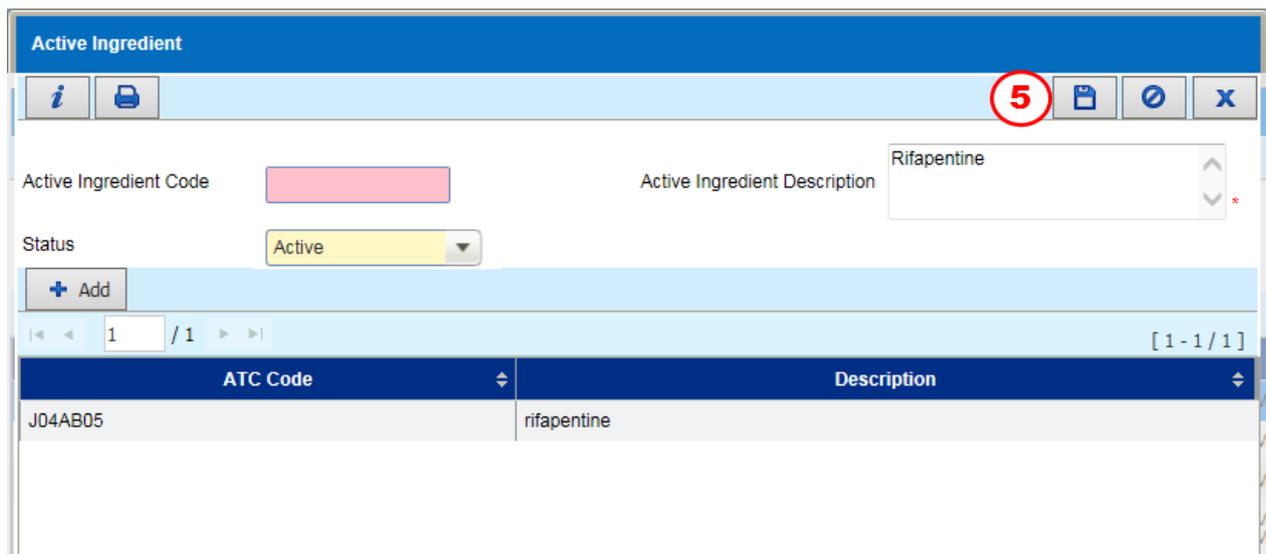


ATC Code	Description
A01AA01	sodium fluoride

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 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

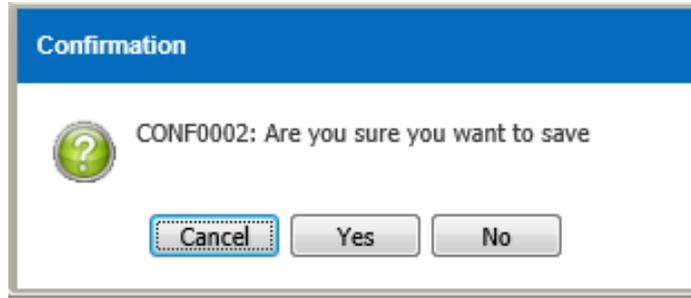


Figure 3.4.1-5 Confirmation Message

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

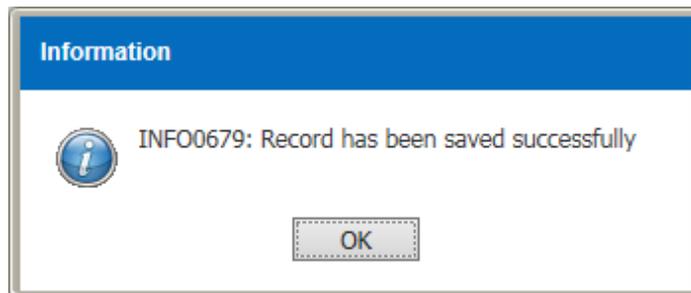


Figure 3.4.1-6 Information Message

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

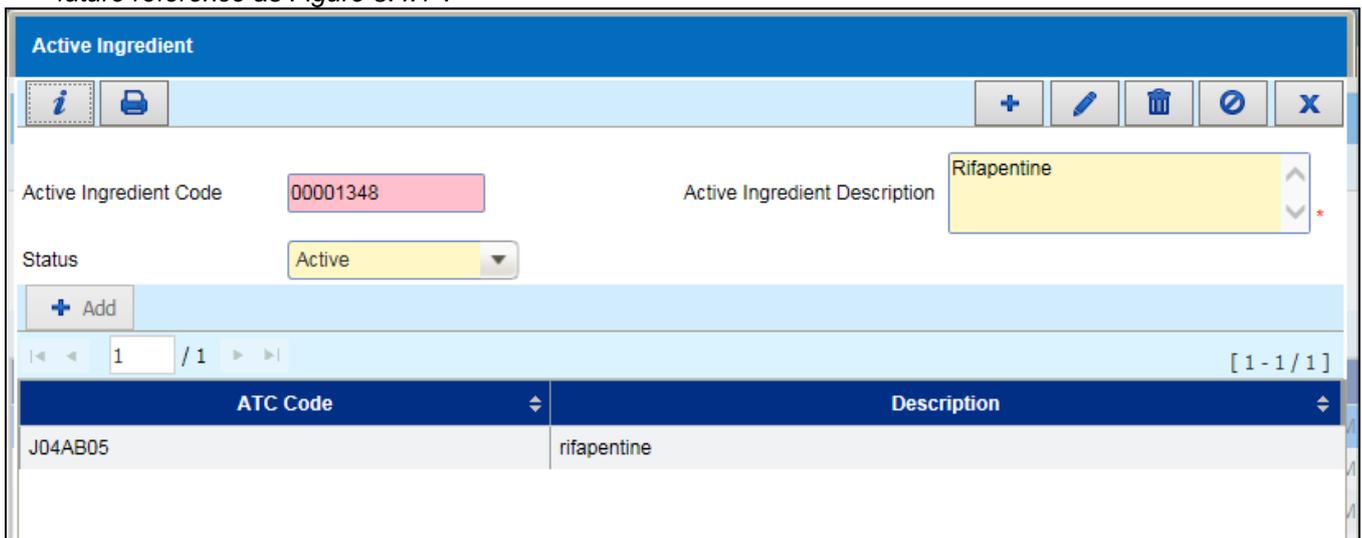
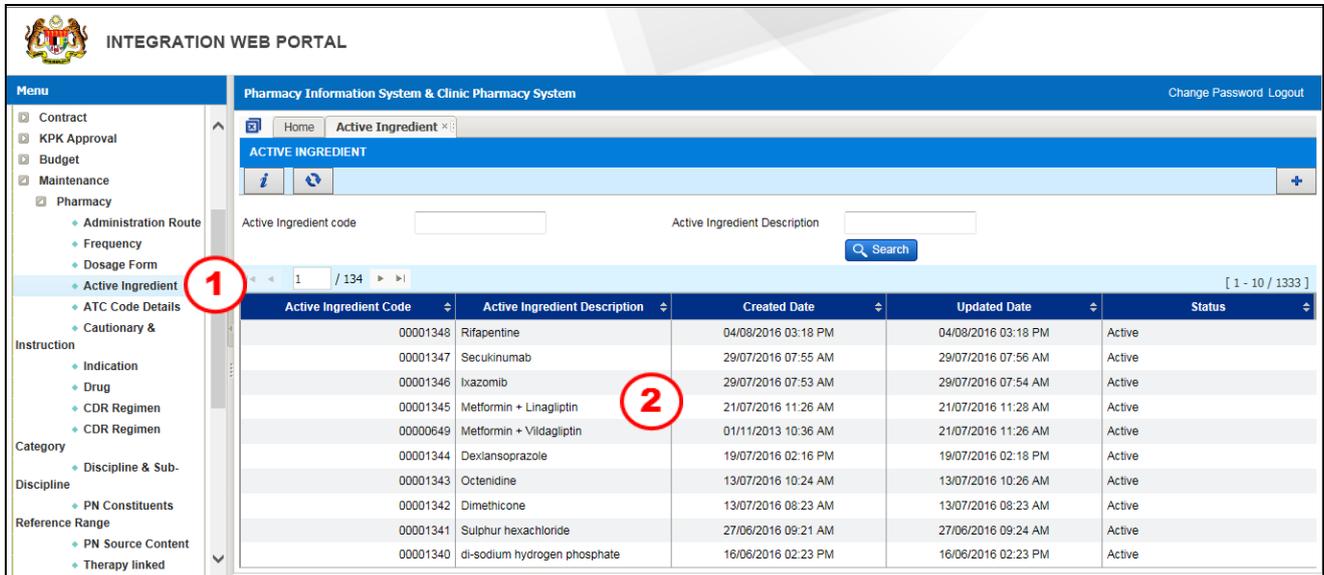


Figure 3.4.1-7 Active Ingredient

3.4.2 Modify Active Ingredient

To modify Active Ingredient records, perform the steps below:



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

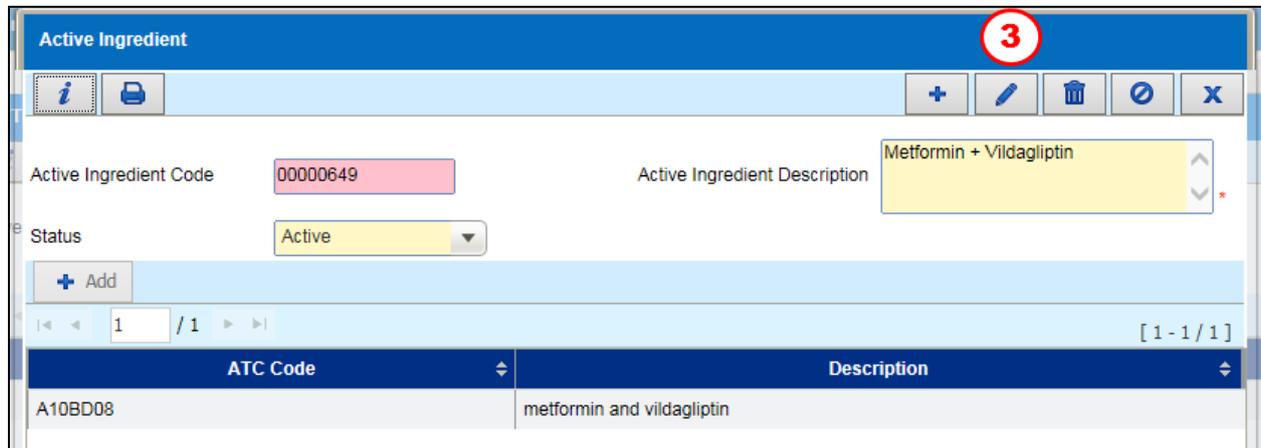
Figure 3.4.2-1 Active Ingredient Listing Page

STEP 1

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

STEP 2

Click on the selected record



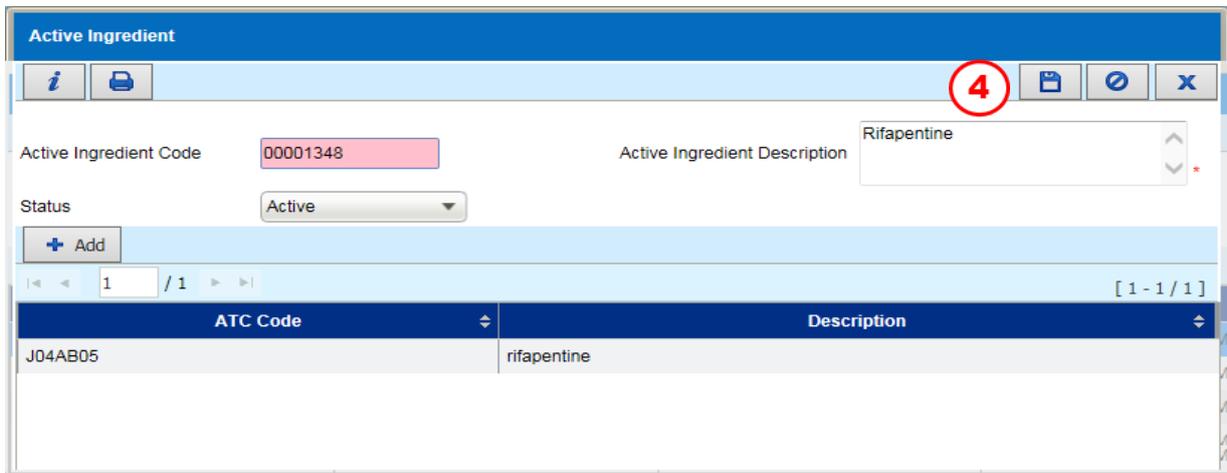
Active Ingredient Code: 00000649
Active Ingredient Description: Metformin + Vildagliptin
Status: Active

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



ATC Code	Description
J04AB05	rifapentine

Figure 3.4.2-3 Active Indgredient Form

Note

User is allow 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

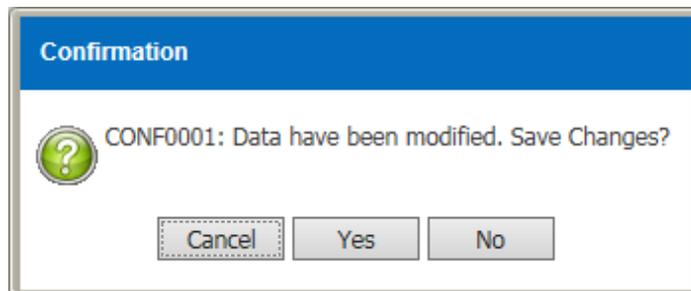
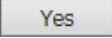
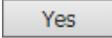


Figure 3.4.2-4 Confirmation Message

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

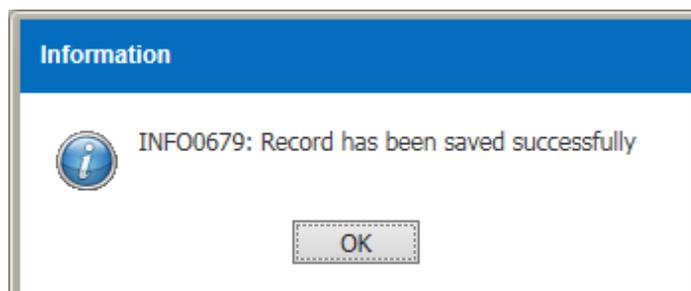
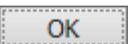


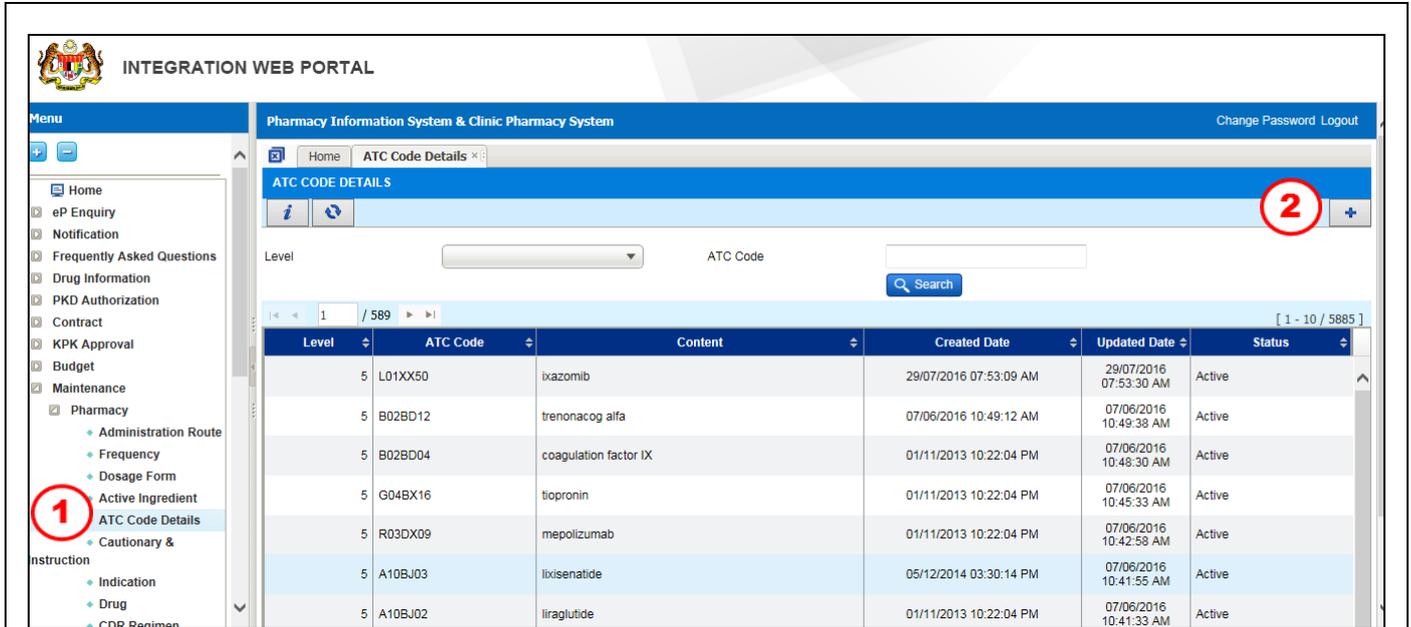
Figure 3.4.2-5 Information Message

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	L01XX50	ixazomib	29/07/2016 07:53:09 AM	29/07/2016 07:53:30 AM	Active
5	B02BD12	trenonacog alfa	07/06/2016 10:49:12 AM	07/06/2016 10:49:38 AM	Active
5	B02BD04	coagulation factor IX	01/11/2013 10:22:04 PM	07/06/2016 10:48:30 AM	Active
5	G04BX16	tiopronin	01/11/2013 10:22:04 PM	07/06/2016 10:45:33 AM	Active
5	R03DX09	mepolizumab	01/11/2013 10:22:04 PM	07/06/2016 10:42:58 AM	Active
5	A10BJ03	lixisenatide	05/12/2014 03:30:14 PM	07/06/2016 10:41:55 AM	Active
5	A10BJ02	liraglutide	01/11/2013 10:22:04 PM	07/06/2016 10:41:33 AM	Active

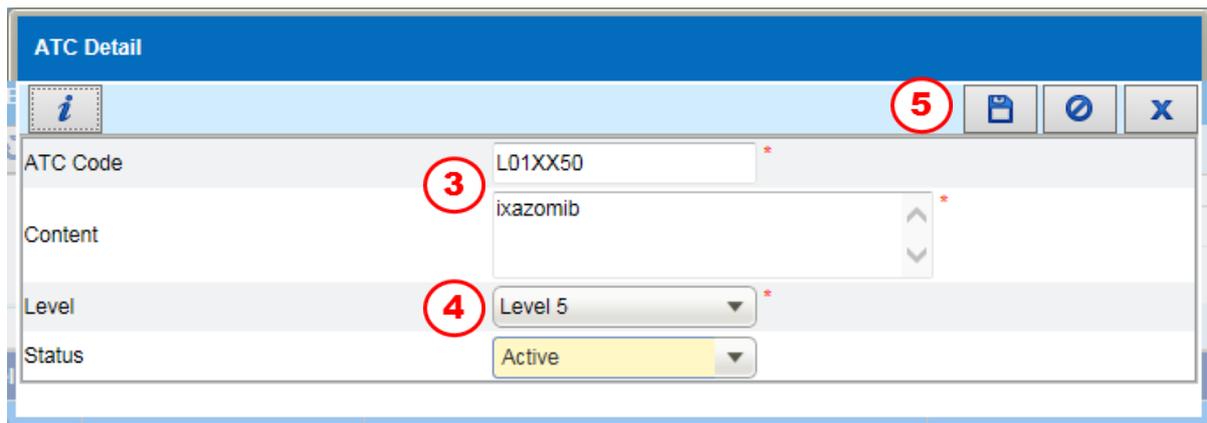
Figure 3.5.1-1 ATC Code Details Listing Page

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 Detail

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

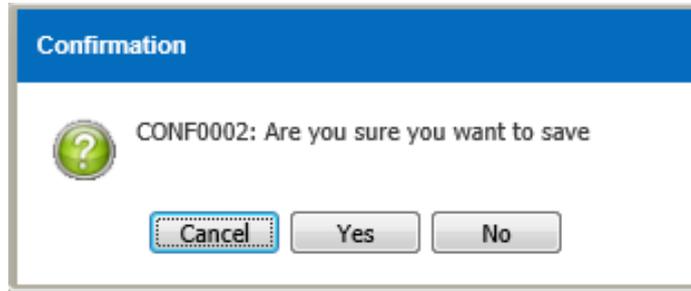
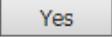
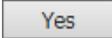


Figure 3.5.1-3 Confirmation Message

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

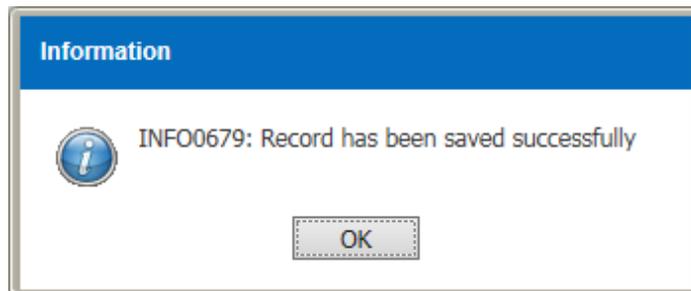
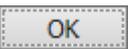
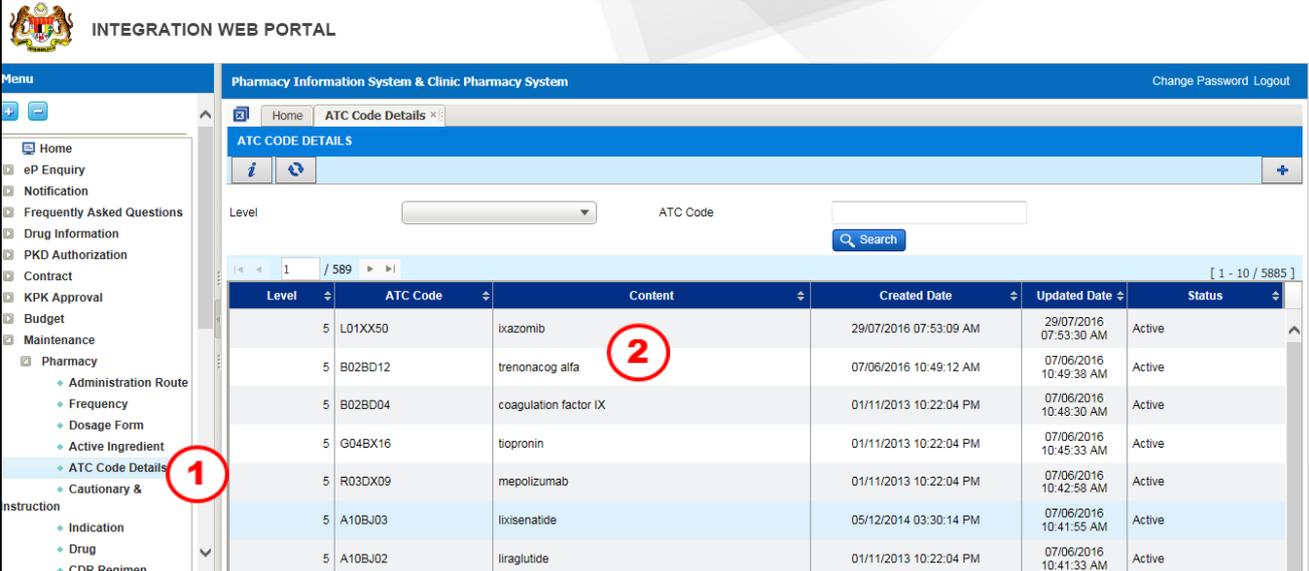


Figure 3.5.1-4 Information Message

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:



Level	ATC Code	Content	Created Date	Updated Date	Status
5	L01XX50	ixazomib	29/07/2016 07:53:09 AM	29/07/2016 07:53:30 AM	Active
5	B02BD12	trenonacog alfa	07/06/2016 10:49:12 AM	07/06/2016 10:49:38 AM	Active
5	B02BD04	coagulation factor IX	01/11/2013 10:22:04 PM	07/06/2016 10:48:30 AM	Active
5	G04BX16	tiopronin	01/11/2013 10:22:04 PM	07/06/2016 10:45:33 AM	Active
5	R03DX09	mepolizumab	01/11/2013 10:22:04 PM	07/06/2016 10:42:58 AM	Active
5	A10BJ03	lixisenatide	05/12/2014 03:30:14 PM	07/06/2016 10:41:55 AM	Active
5	A10BJ02	liraglutide	01/11/2013 10:22:04 PM	07/06/2016 10:41:33 AM	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

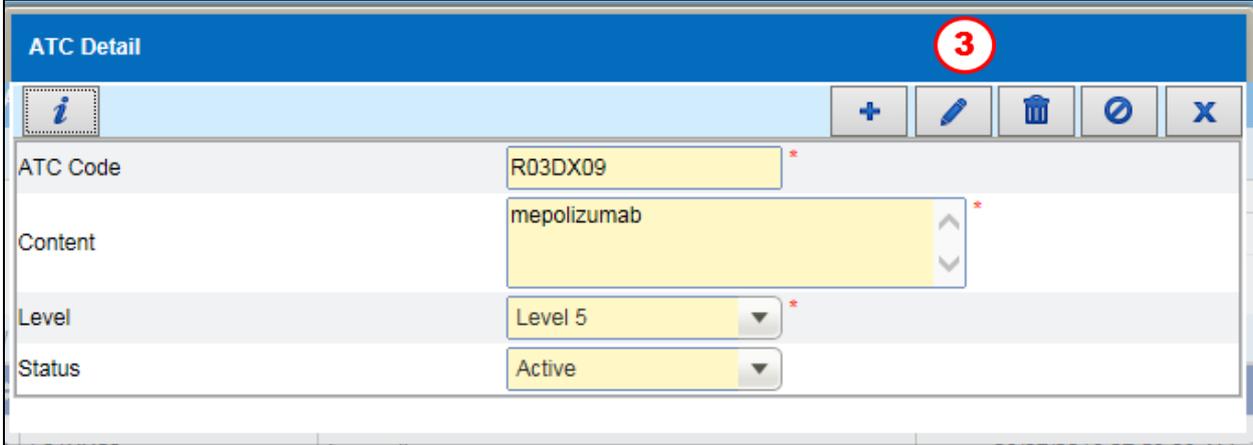
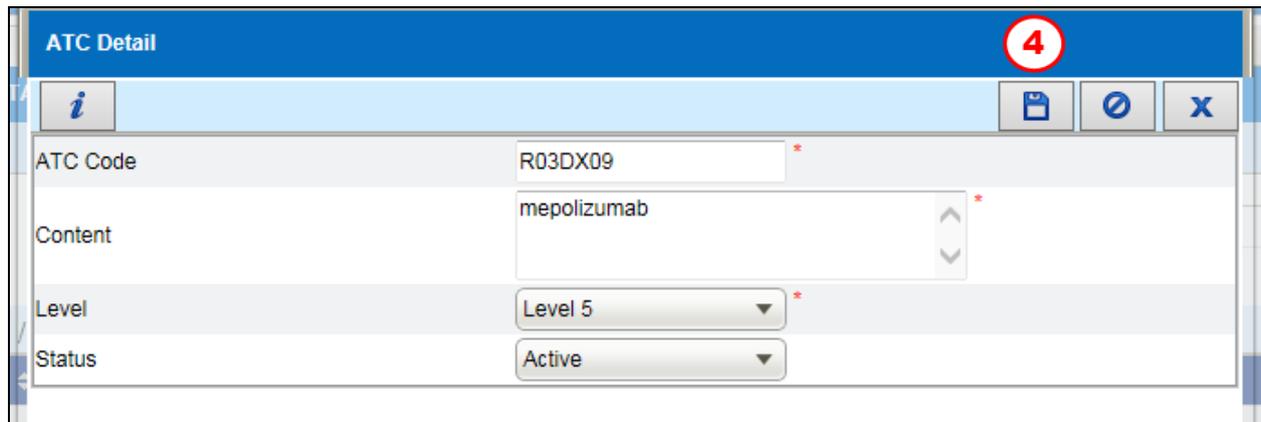


Figure 3.5.2-2 Edit ATC Code Details

STEP 3

Click on the  button to edit the record



The screenshot shows a window titled "ATC Detail" with a blue header. In the top right corner of the header, there is a red circle containing the number "4". Below the header is a toolbar with an information icon (i), a save icon (floppy disk), a refresh icon (circular arrow), and a close icon (X). The form contains four rows of data:

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

Figure 3.5.2-3 Edit ATC Code Details

Note

User is allow 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

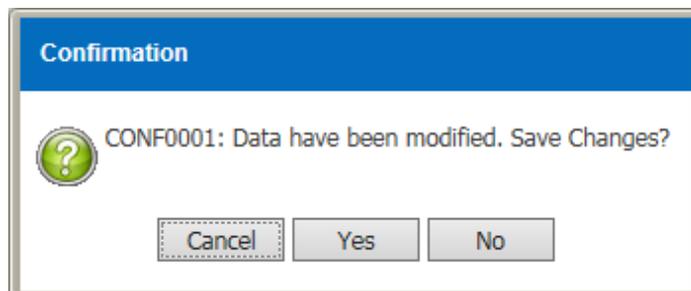
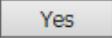
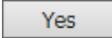


Figure 3.5.2-4 Confirmation Message

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

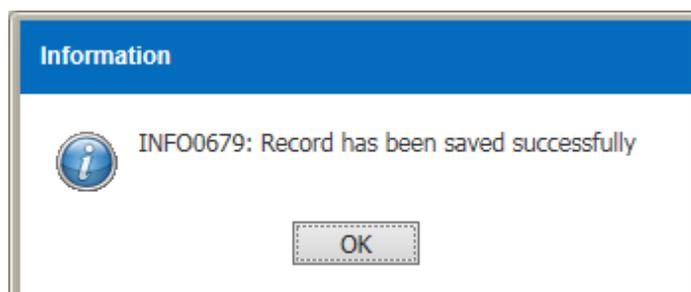
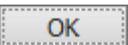


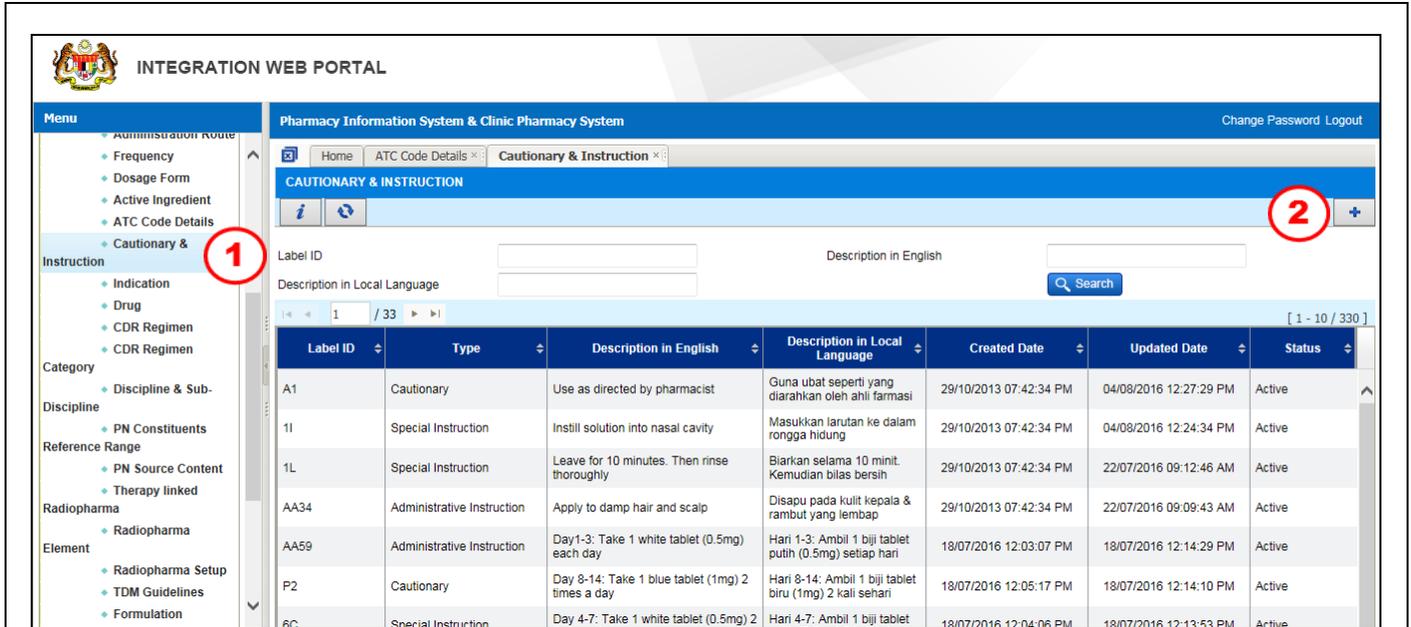
Figure 3.5.2-5 Information Message

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 ID	Type	Description in English	Description in Local Language	Created Date	Updated Date	Status
A1	Cautionary	Use as directed by pharmacist	Guna ubat seperti yang diarahkan oleh ahli farmasi	29/10/2013 07:42:34 PM	04/08/2016 12:27:29 PM	Active
1I	Special Instruction	Instill solution into nasal cavity	Masukkan larutan ke dalam rongga hidung	29/10/2013 07:42:34 PM	04/08/2016 12:24:34 PM	Active
1L	Special Instruction	Leave for 10 minutes. Then rinse thoroughly	Biarkan selama 10 minit. Kemudian bilas bersih	29/10/2013 07:42:34 PM	22/07/2016 09:12:46 AM	Active
AA34	Administrative Instruction	Apply to damp hair and scalp	Disapu pada kulit kepala & rambut yang lembap	29/10/2013 07:42:34 PM	22/07/2016 09:09:43 AM	Active
AA59	Administrative Instruction	Day 1-3: Take 1 white tablet (0.5mg) each day	Hari 1-3: Ambil 1 biji tablet putih (0.5mg) setiap hari	18/07/2016 12:03:07 PM	18/07/2016 12:14:29 PM	Active
P2	Cautionary	Day 8-14: Take 1 blue tablet (1mg) 2 times a day	Hari 8-14: Ambil 1 biji tablet biru (1mg) 2 kali sehari	18/07/2016 12:05:17 PM	18/07/2016 12:14:10 PM	Active
6C	Special Instruction	Day 4-7: Take 1 white tablet (0.5mg) 2	Hari 4-7: Ambil 1 biji tablet	18/07/2016 12:04:06 PM	18/07/2016 12:13:53 PM	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

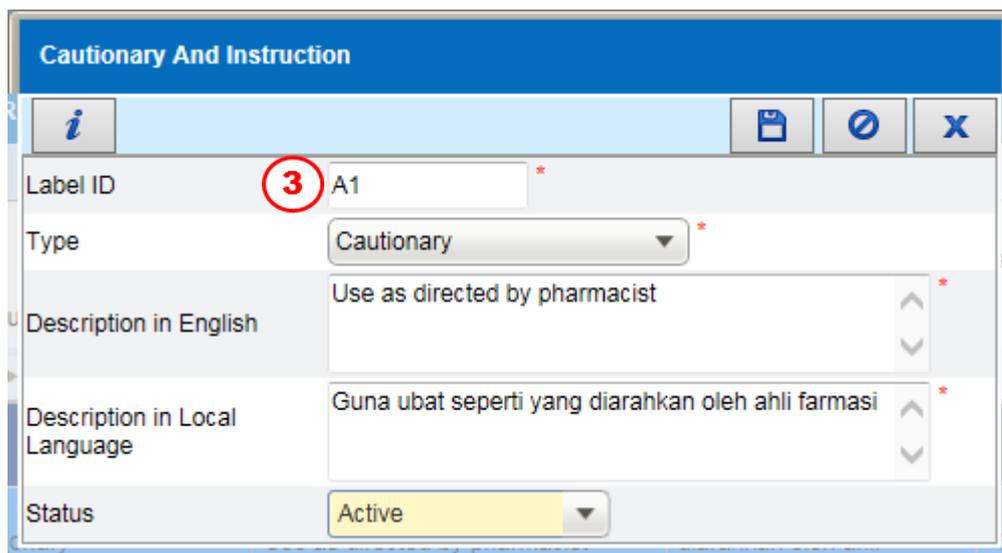


Figure 3.6.1-2 Add Cautionary And Instruction

STEP 3

Enter **Label ID**

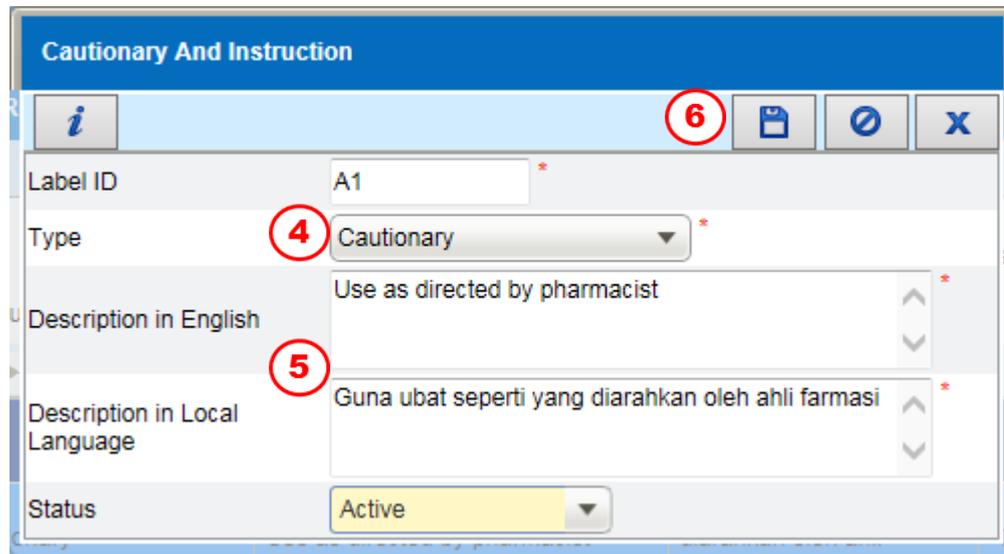


Figure 3.6.1-3 Add Cautionary And Instruction

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

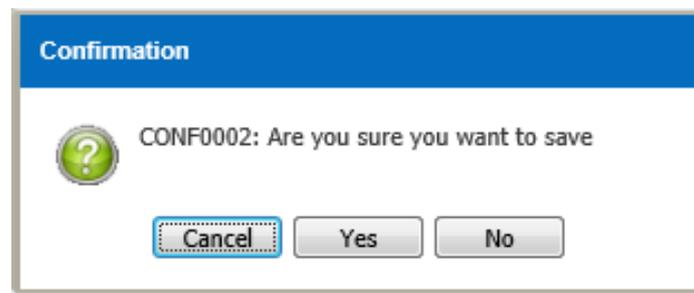
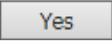
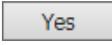


Figure 3.6.1-4 Confirmation Message

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

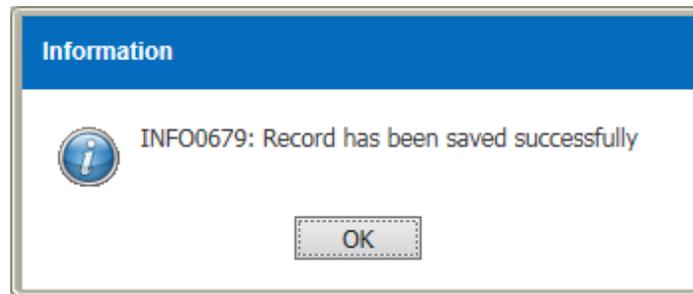


Figure 3.6.1-5 Information Message

- 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 ID	Type	Description in English	Description in Local Language	Created Date	Updated Date	Status
A1	Cautionary	Use as directed by pharmacist	Guna ubat seperti yang diarahkan oleh ahli farmasi	29/10/2013 07:42:34 PM	04/08/2016 12:27:29 PM	Active
1I	Special Instruction	Instill solution into nasal cavity	Masukkan larutan ke dalam rongga hidung	29/10/2013 07:42:34 PM	04/08/2016 12:24:34 PM	Active
1L	Special Instruction	Leave for 10 minutes. Then rinse thoroughly	Biarkan selama 10 minit. Kemudian bilas bersih	29/10/2013 07:42:34 PM	22/07/2016 09:12:46 AM	Active
AA34	Administrative Instruction	Apply to damp hair and scalp	Disapu pada kulit kepala & rambut yang lembap	29/10/2013 07:42:34 PM	22/07/2016 09:09:43 AM	Active
AA59	Administrative Instruction	Day 1-3: Take 1 white tablet (0.5mg) each day	Hari 1-3: Ambil 1 biji tablet putih (0.5mg) setiap hari	18/07/2016 12:03:07 PM	18/07/2016 12:14:29 PM	Active
P2	Cautionary	Day 8-14: Take 1 blue tablet (1mg) 2 times a day	Hari 8-14: Ambil 1 biji tablet biru (1mg) 2 kali sehari	18/07/2016 12:05:17 PM	18/07/2016 12:14:10 PM	Active
6C	Special Instruction	Day 4-7: Take 1 white tablet (0.5mg) 2	Hari 4-7: Ambil 1 biji tablet	18/07/2016 12:04:06 PM	18/07/2016 12:13:53 PM	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

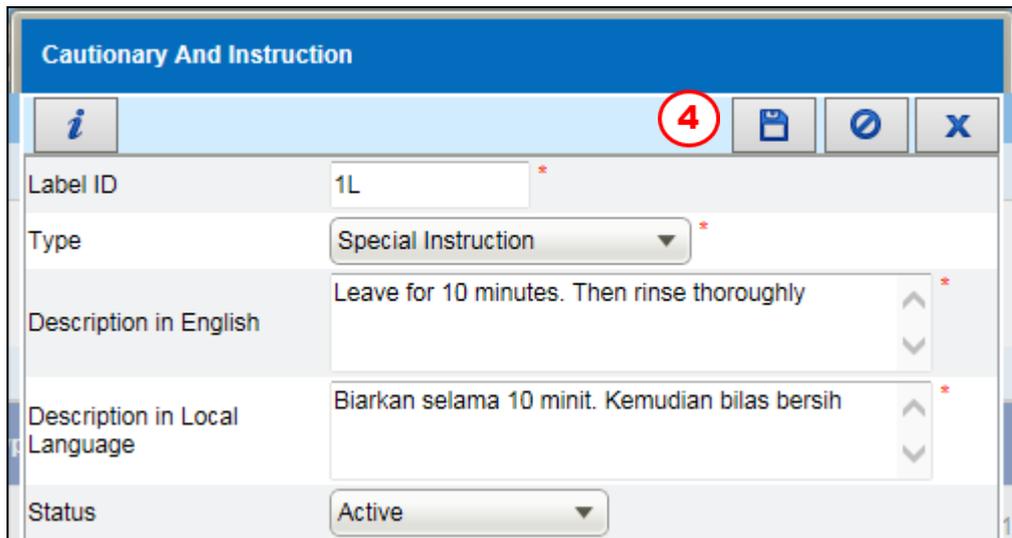


Figure 3.6.2-3 Add Cautionary And Instruction

Note

User is allow 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 3.6.2-3

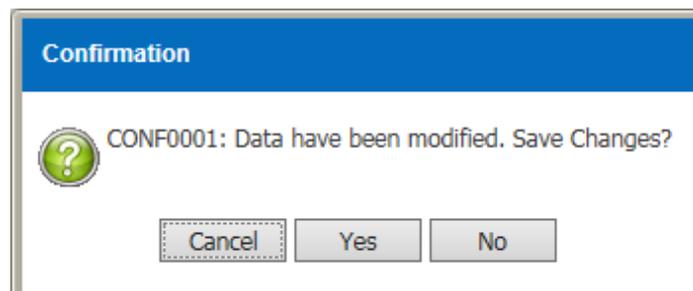
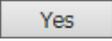
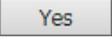


Figure 3.6.2-3 Confirmation Message

- Click on the  button to save the edited record
- Information Message will display after click on the  button as Figure 3.6.2-4

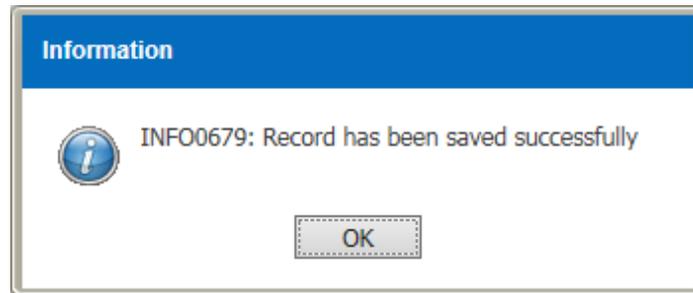


Figure 3.6.2-4 Information Message

- 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:

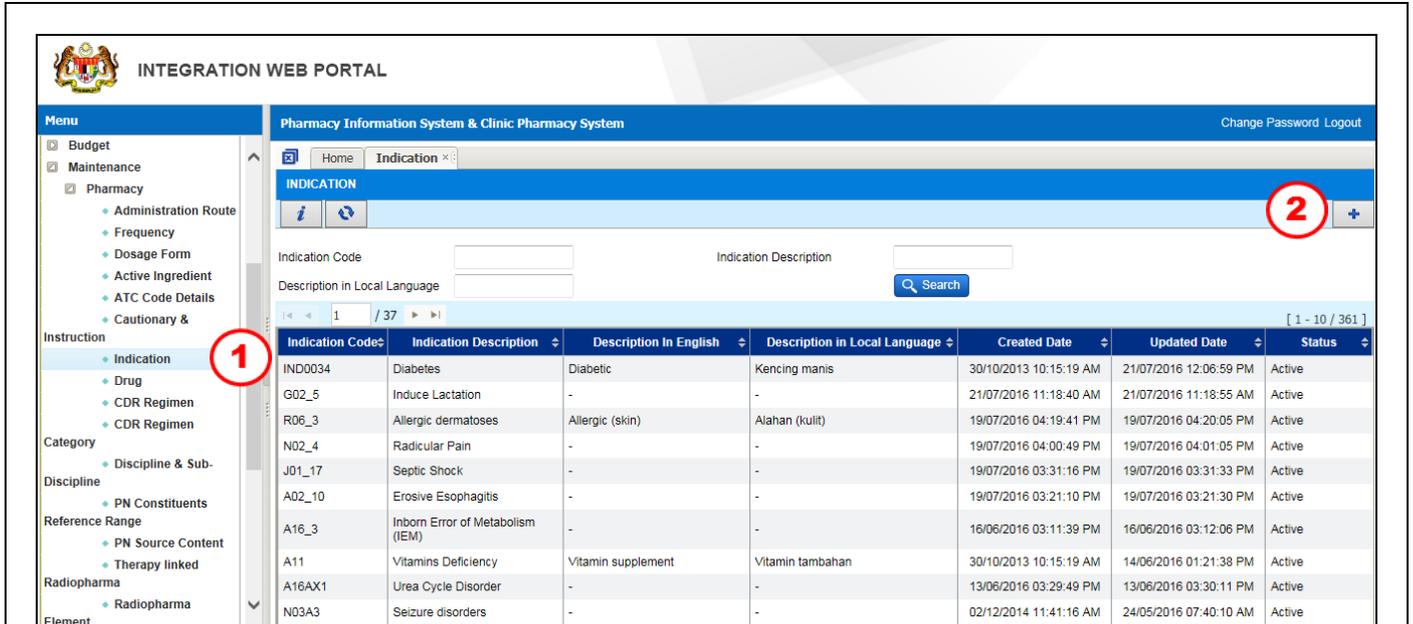


Figure 3.7.1-1 Indication Listing Page

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

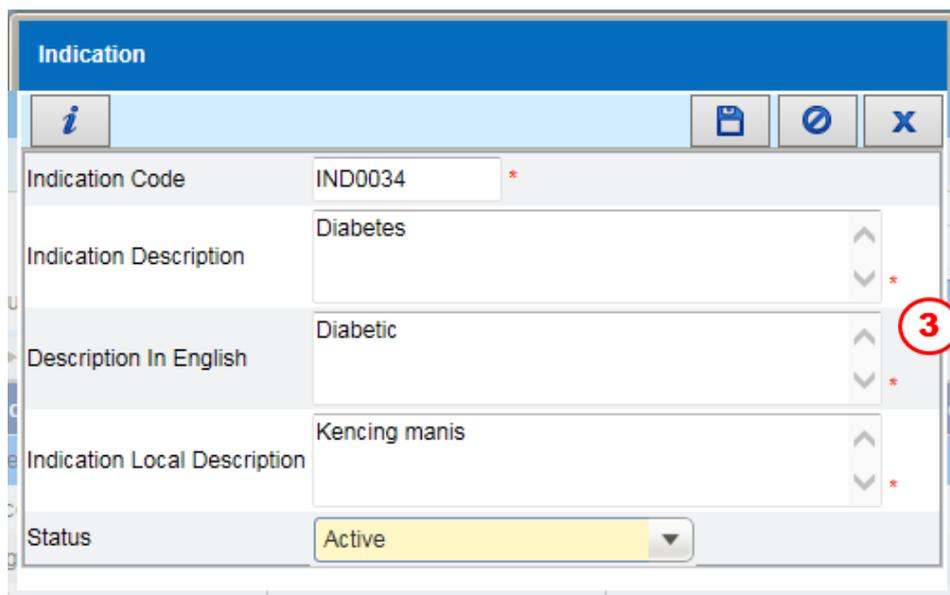


Figure 3.7.1-2 Indication

STEP 3

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

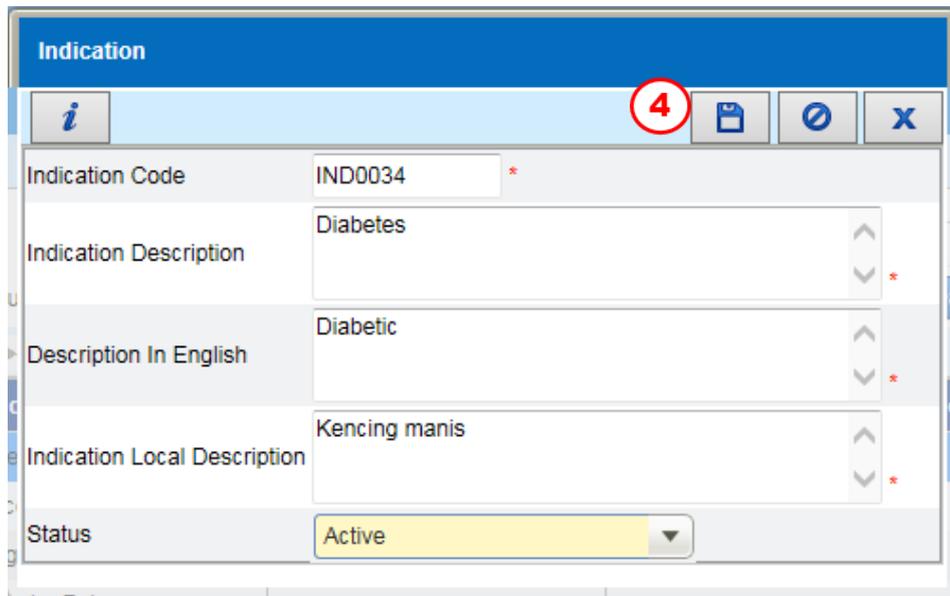


Figure 3.7.1-3 Indication

STEP 4

Click on the  button to save the record

Note

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

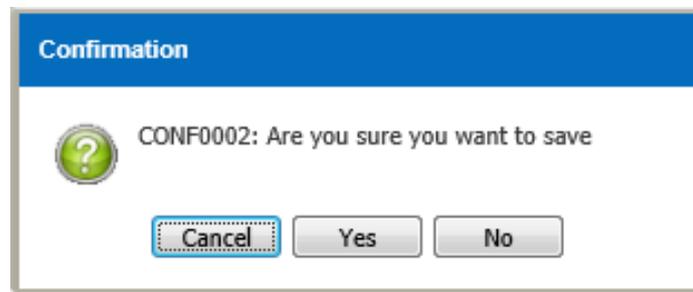
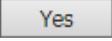
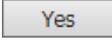


Figure 3.7.1-4 Confirmation Message

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

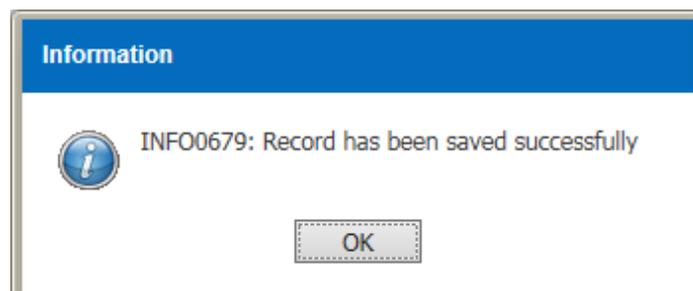
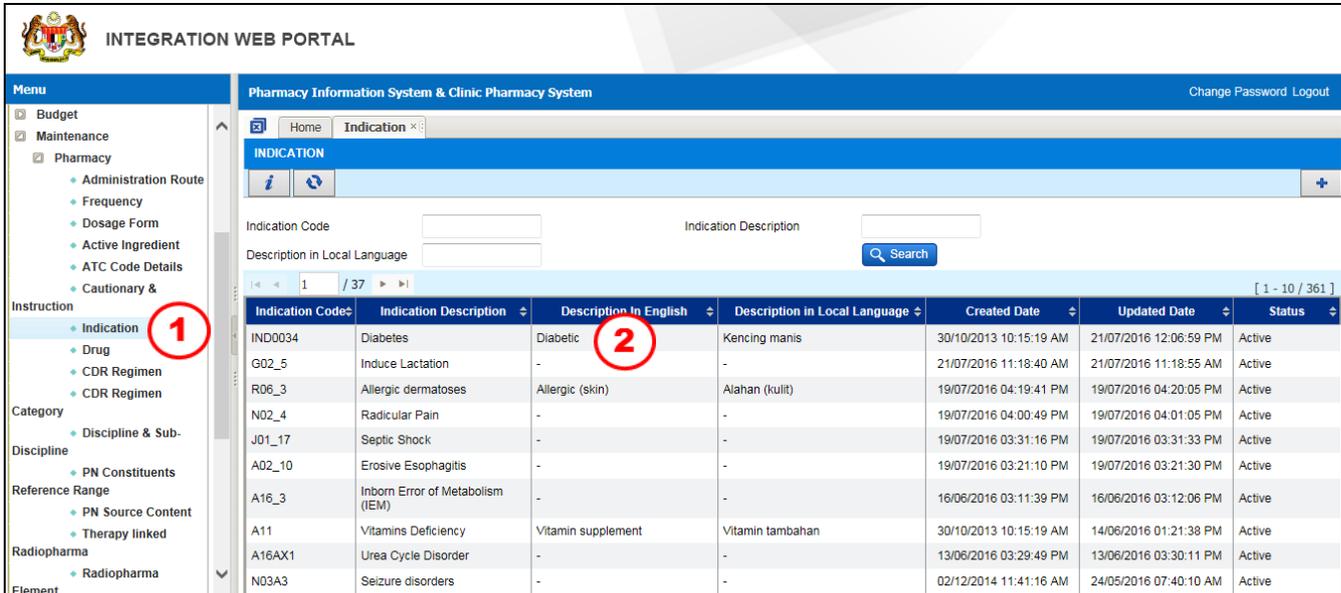


Figure 3.7.1-5 Information Message

- Click on the  button to confirmed the record

3.7.2 Modify Indication

To modify Indication records, perform the steps below:



Indication Code	Indication Description	Description In English	Description in Local Language	Created Date	Updated Date	Status
IND0034	Diabetes	Diabetic	Kencing manis	30/10/2013 10:15:19 AM	21/07/2016 12:06:59 PM	Active
G02_5	Induce Lactation	-	-	21/07/2016 11:18:40 AM	21/07/2016 11:18:55 AM	Active
R06_3	Allergic dermatoses	Allergic (skin)	Alahan (kulit)	19/07/2016 04:19:41 PM	19/07/2016 04:20:05 PM	Active
N02_4	Radicular Pain	-	-	19/07/2016 04:00:49 PM	19/07/2016 04:01:05 PM	Active
J01_17	Septic Shock	-	-	19/07/2016 03:31:16 PM	19/07/2016 03:31:33 PM	Active
A02_10	Erosive Esophagitis	-	-	19/07/2016 03:21:10 PM	19/07/2016 03:21:30 PM	Active
A16_3	Inborn Error of Metabolism (IEM)	-	-	16/06/2016 03:11:39 PM	16/06/2016 03:12:06 PM	Active
A11	Vitamins Deficiency	Vitamin supplement	Vitamin tambahan	30/10/2013 10:15:19 AM	14/06/2016 01:21:38 PM	Active
A16AX1	Urea Cycle Disorder	-	-	13/06/2016 03:29:49 PM	13/06/2016 03:30:11 PM	Active
N03A3	Seizure disorders	-	-	02/12/2014 11:41:16 AM	24/05/2016 07:40:10 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

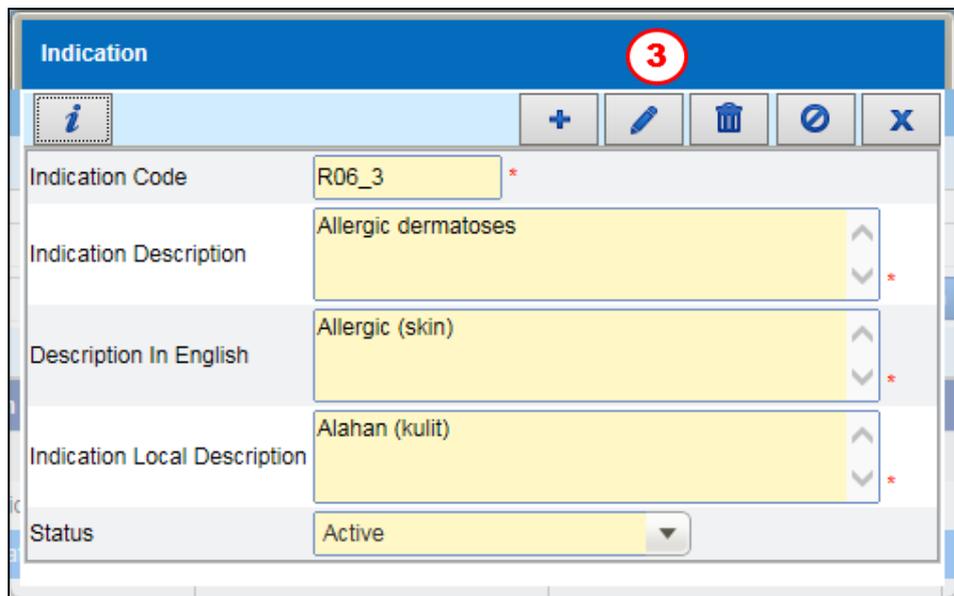


Figure 3.7.2-2 Edit Indication Listing Page

STEP 3

Click on the  button to edit the record

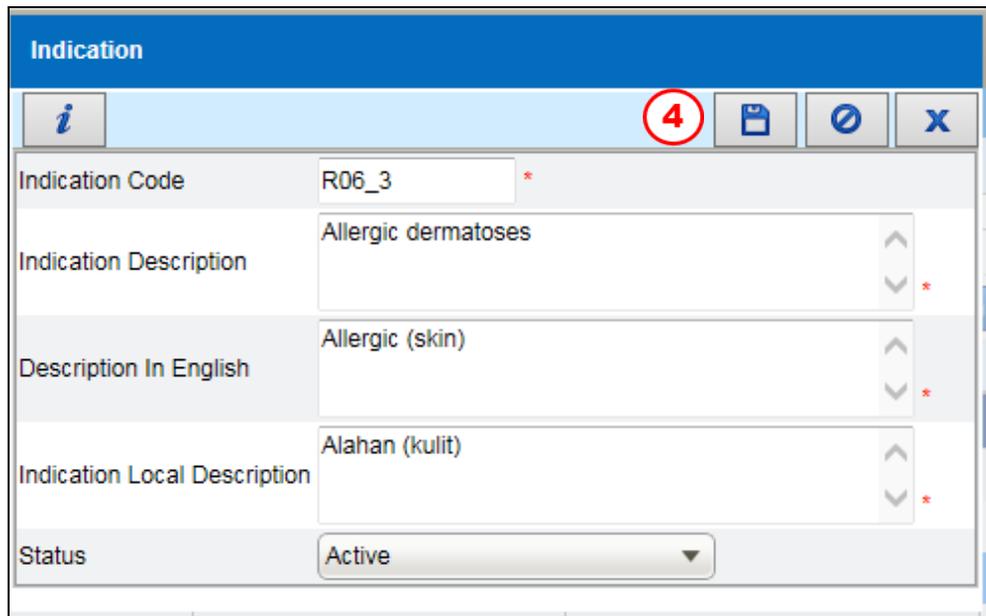


Figure 3.7.2-3 Edit Indication Listing Page

Note

User is allow 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

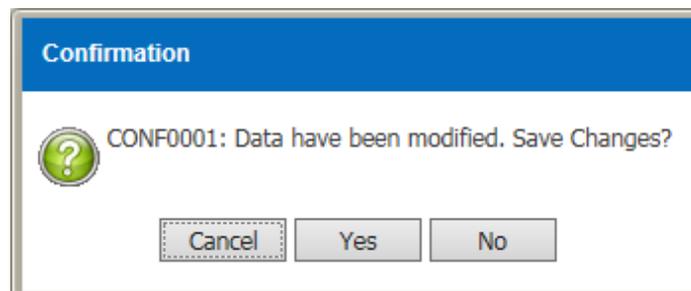
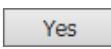


Figure 3.7.2-4 Confirmation Message

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

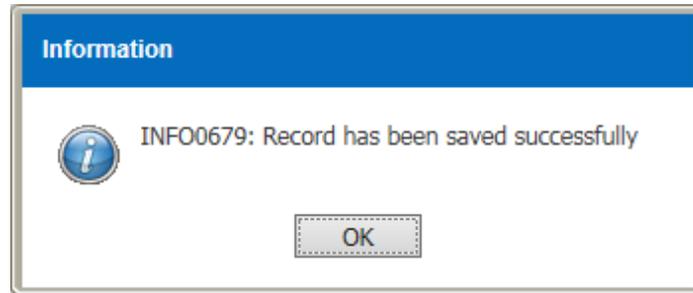
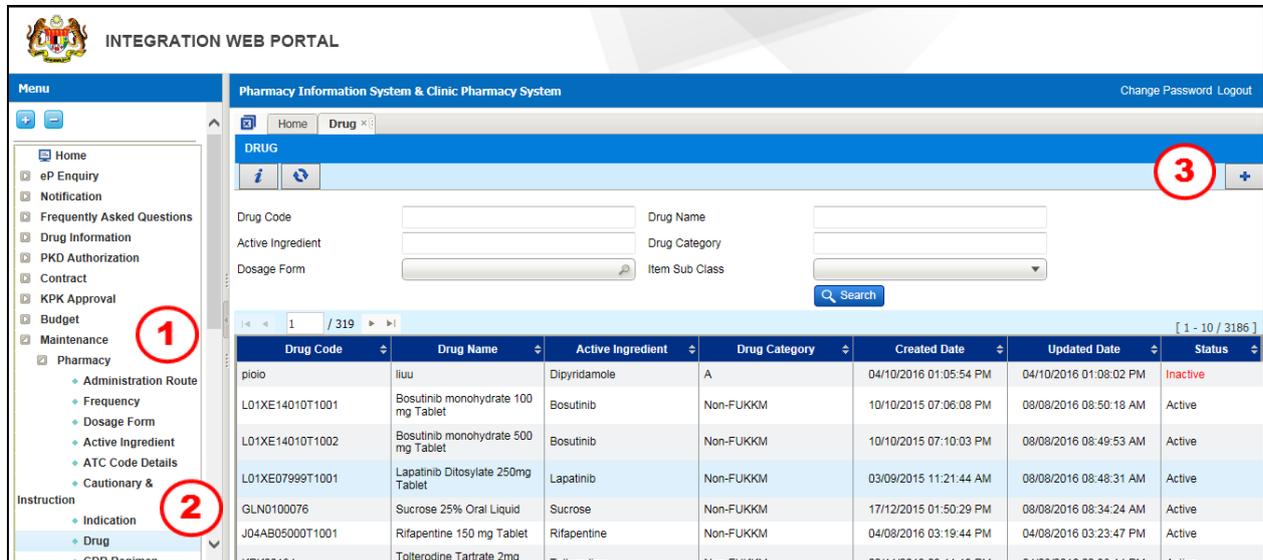


Figure 3.7.2-5 Information Message

- 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
piolo	liuu	Dipyridamole	A	04/10/2016 01:05:54 PM	04/10/2016 01:08:02 PM	Inactive
L01XE14010T1001	Bosutinib monohydrate 100 mg Tablet	Bosutinib	Non-FUKKM	10/10/2015 07:06:08 PM	08/08/2016 08:50:18 AM	Active
L01XE14010T1002	Bosutinib monohydrate 500 mg Tablet	Bosutinib	Non-FUKKM	10/10/2015 07:10:03 PM	08/08/2016 08:49:53 AM	Active
L01XE07999T1001	Lapatinib Ditosylate 250mg Tablet	Lapatinib	Non-FUKKM	03/09/2015 11:21:44 AM	08/08/2016 08:48:31 AM	Active
GLN0100076	Sucrose 25% Oral Liquid	Sucrose	Non-FUKKM	17/12/2015 01:50:29 PM	08/08/2016 08:34:24 AM	Active
J04AB05000T1001	Rifapentine 150 mg Tablet	Rifapentine	Non-FUKKM	04/08/2016 03:19:44 PM	04/08/2016 03:23:47 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

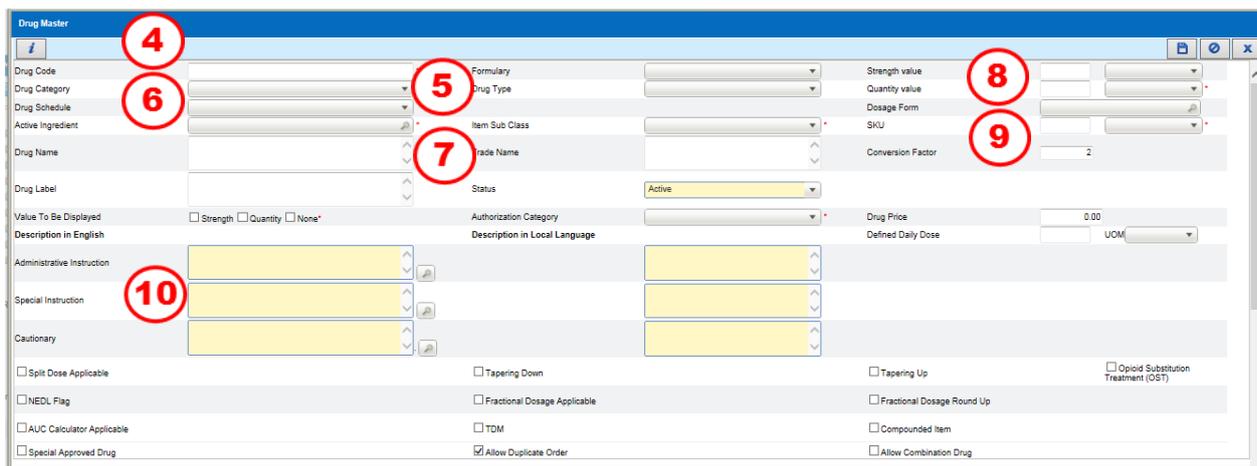


Figure 3.8-2 Drug

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

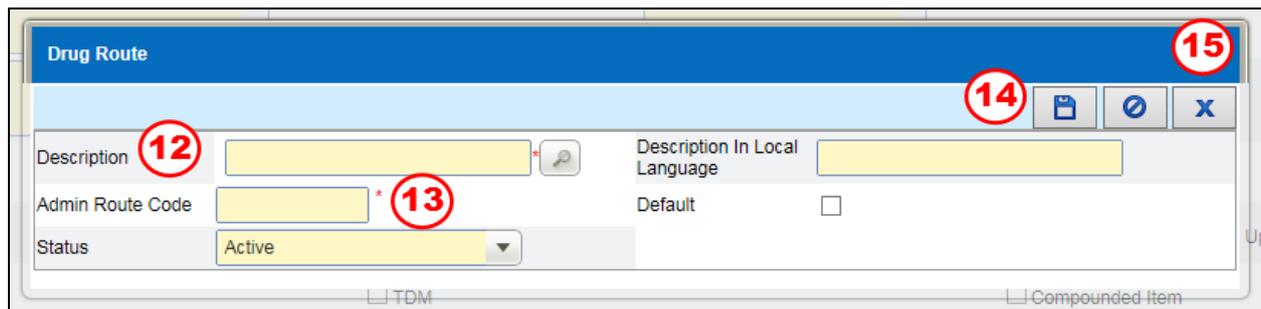
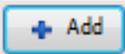


Figure 3.8-4 Drug Route

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

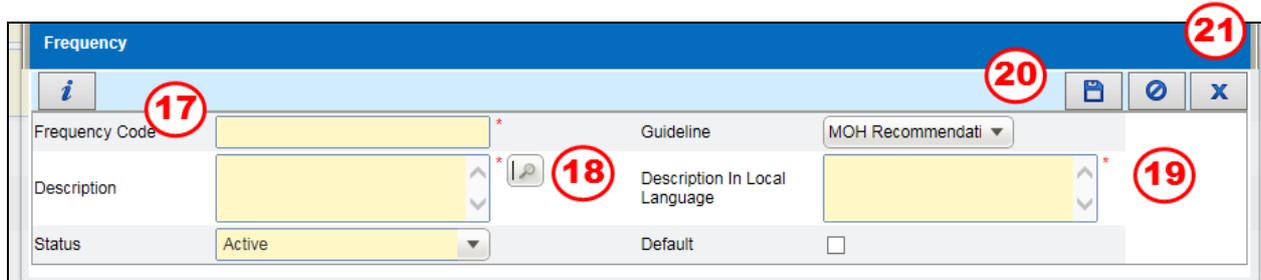
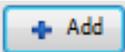


Figure 3.8-6 Drug Frequency

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

Click on the  button to save the Frequency record

STEP 21

Click on the  button to close record



Figure 3.8-7 Drug IV

STEP 22

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



Figure 3.8-8 Drug Extemp

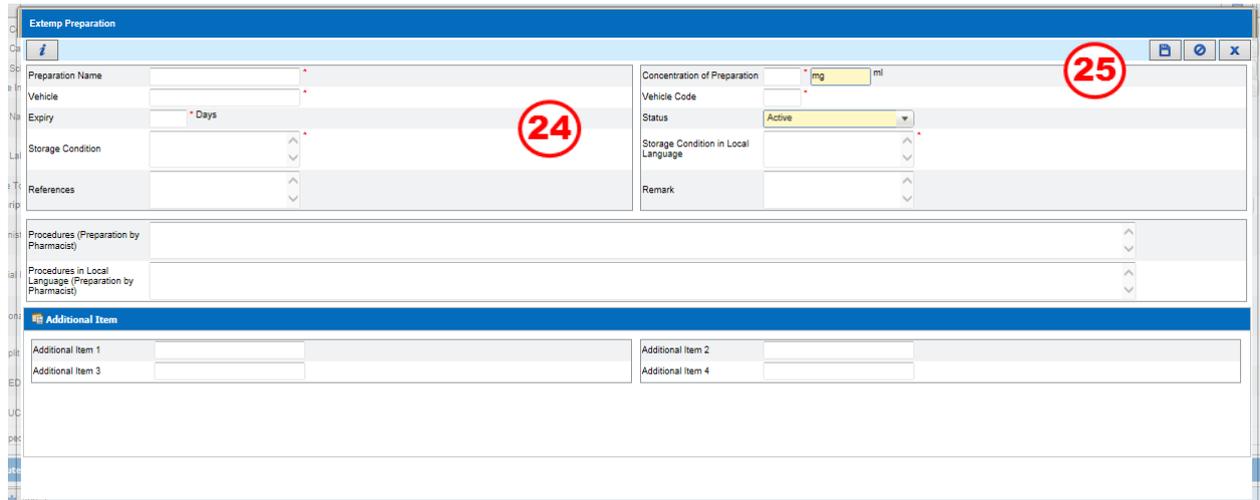


Figure 3.8-9 Drug Extemp Preparation

STEP 23

Click  if drug is extemp drug

STEP 24

Fill all the mandatory field

STEP 25

Click on the  button to save the record



Figure 3.8-10 Drug Indication

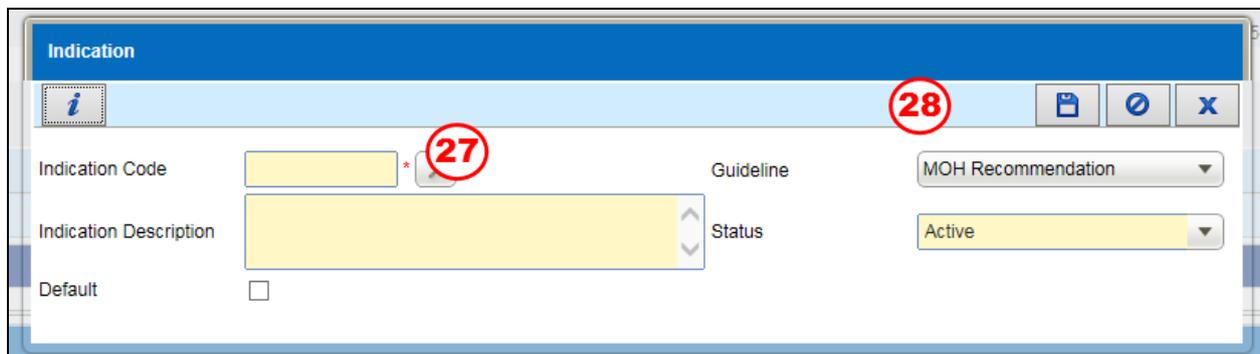


Figure 3.8-11 Drug Indication

STEP26

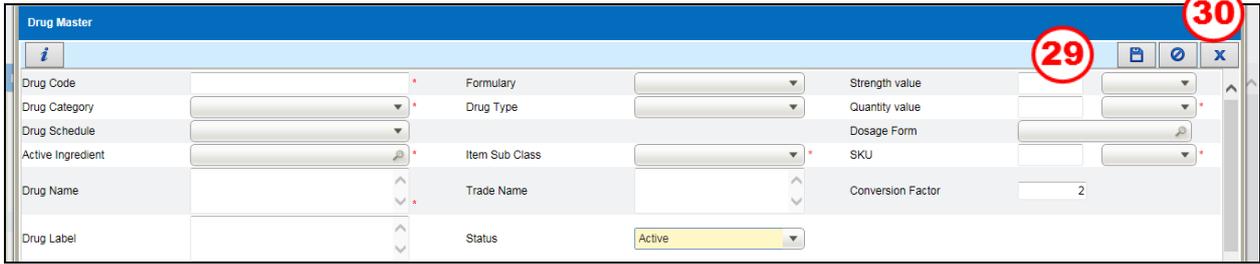
Click  to insert drug indication

STEP 27

Fill all the mandatory field

STEP 28

Click on the  button to save the record



The screenshot shows the 'Drug Master' form with the following fields and annotations:

Drug Code *	Formulary	Strength value	29
Drug Category *	Drug Type	Quantity value	
Drug Schedule *		Dosage Form	
Active Ingredient *	Item Sub Class *	SKU	
Drug Name	Trade Name	Conversion Factor	2
Drug Label	Status		

Annotation **29** points to the 'Strength value' field. Annotation **30** points to the 'Save' button in the top right corner of the form.

Figure 3.8-12 Drug Master

STEP 29

Click on the  button to save the Drug Master record

STEP 30

Click on the  button to close record

Note

*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:

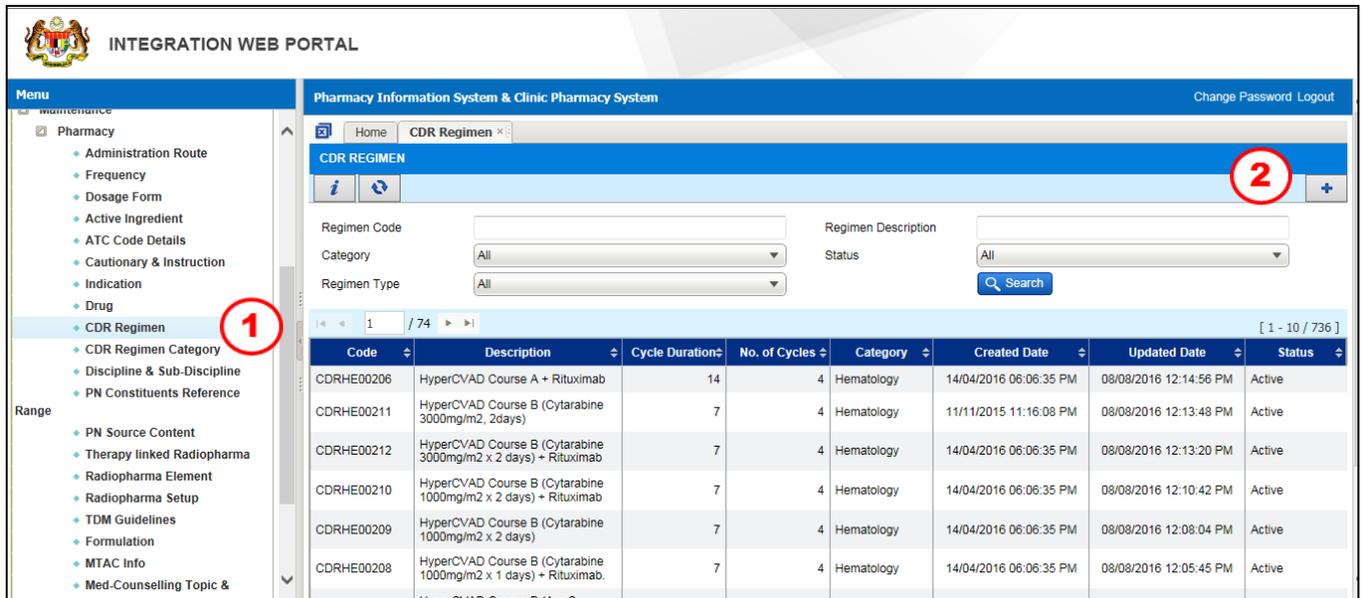


Figure 3.9.1-1 CDR Regimen Listing Page

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

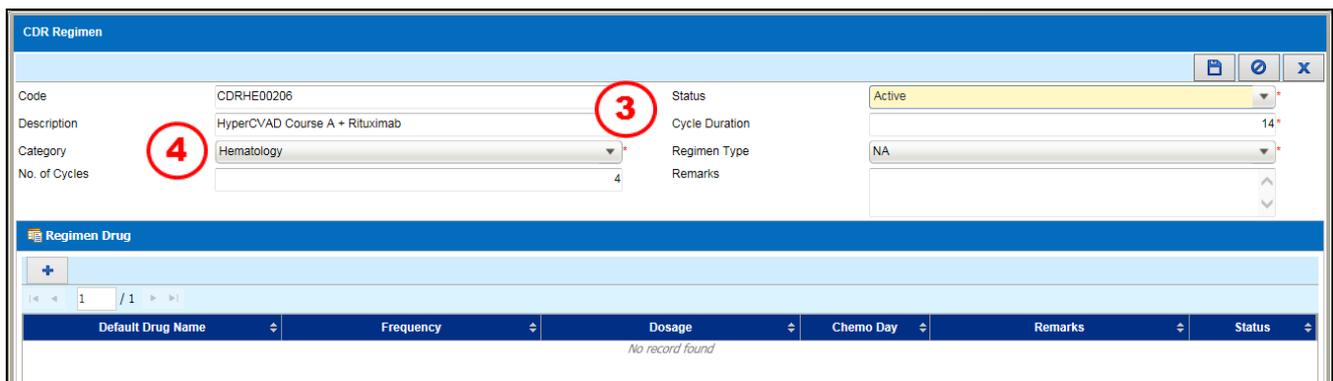


Figure 3.9.1-2 CDR Regimen Master

STEP 3

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

STEP 4

Select **Category** from drop down box:

- Hematology
- Oncology
- Others
- Padiatric

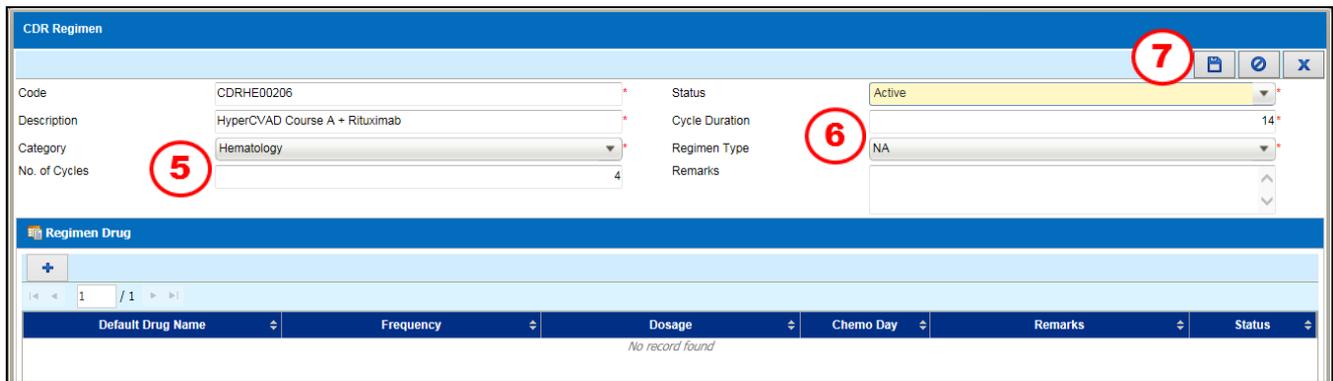


Figure 3.9.1-3 CDR Regimen Master

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

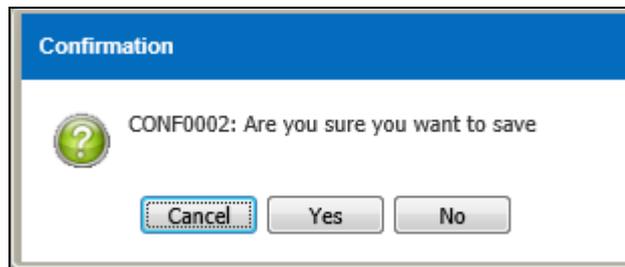


Figure 3.9.1-4 Confirmation Message

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

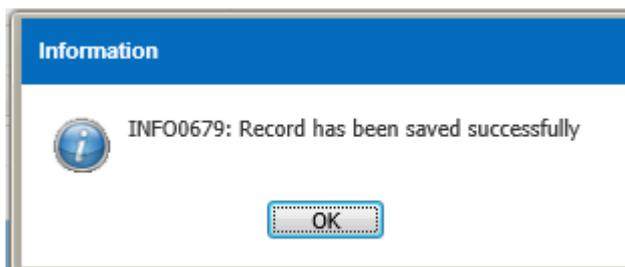


Figure 3.9.1-5 Confirmation Message

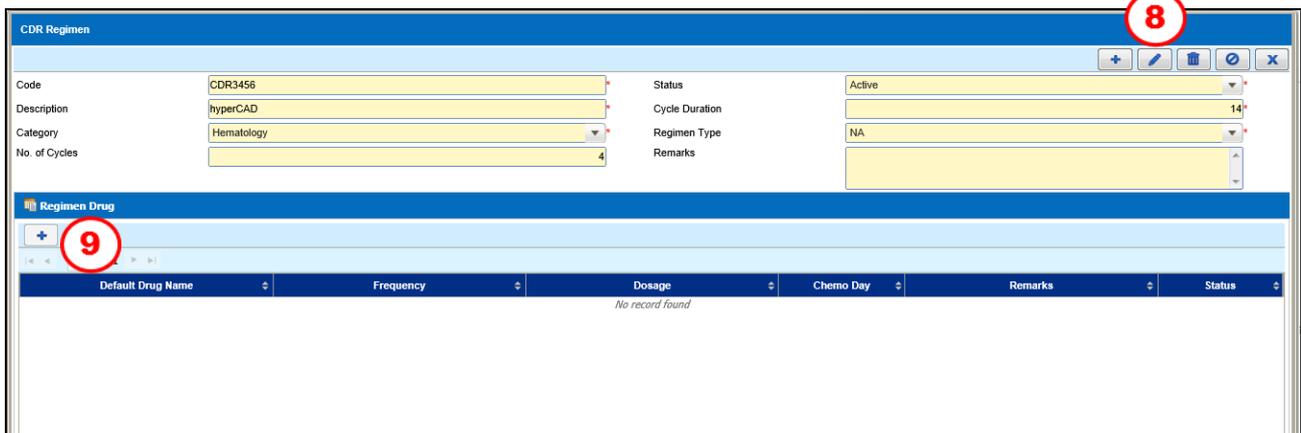


Figure 3.9.1-6 CDR Regimen Master

STEP 8

Click on the  button to edit the CDR Regimen screen

STEP 9

Click on the  button to add Regimen Drug

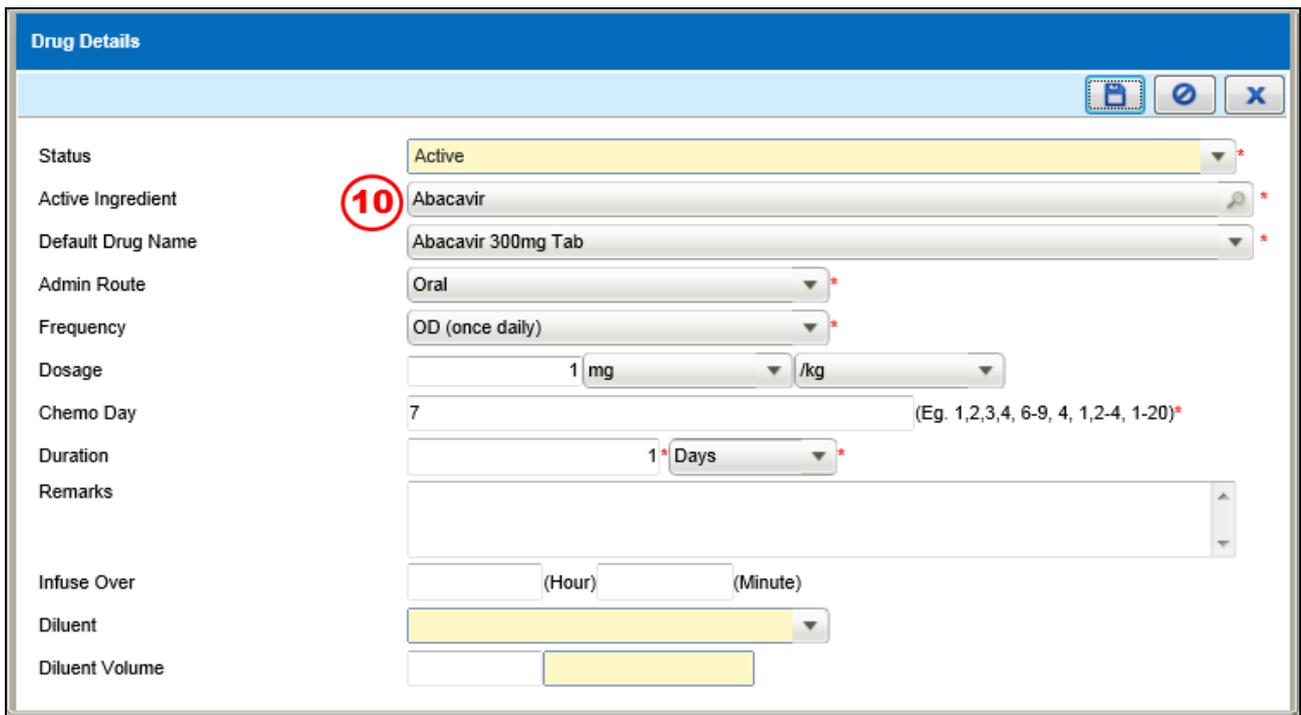
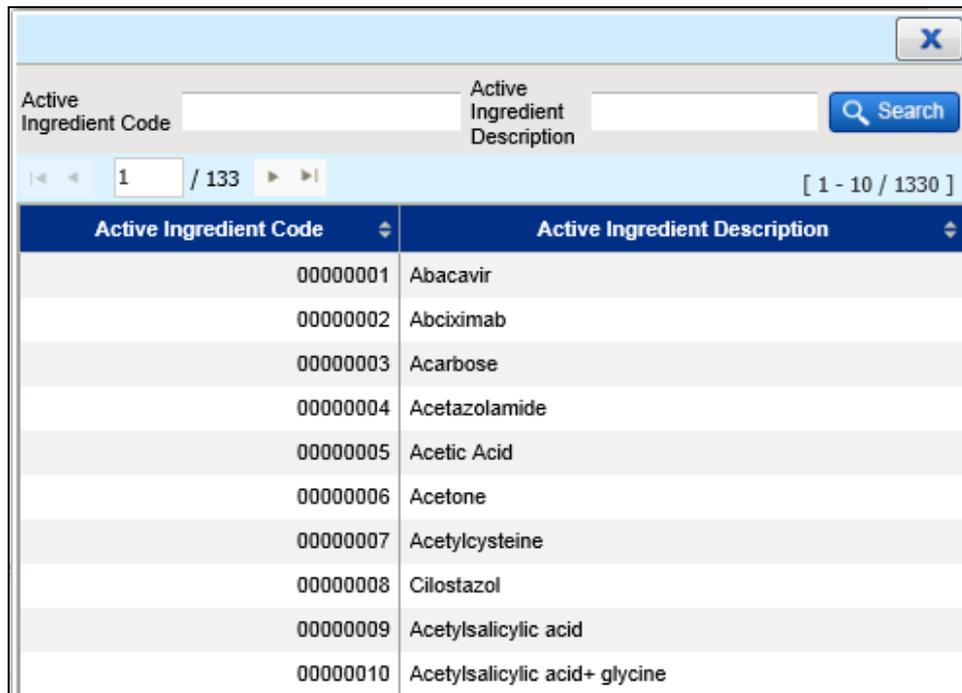


Figure 3.9.1-7 CDR Regimen Master

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

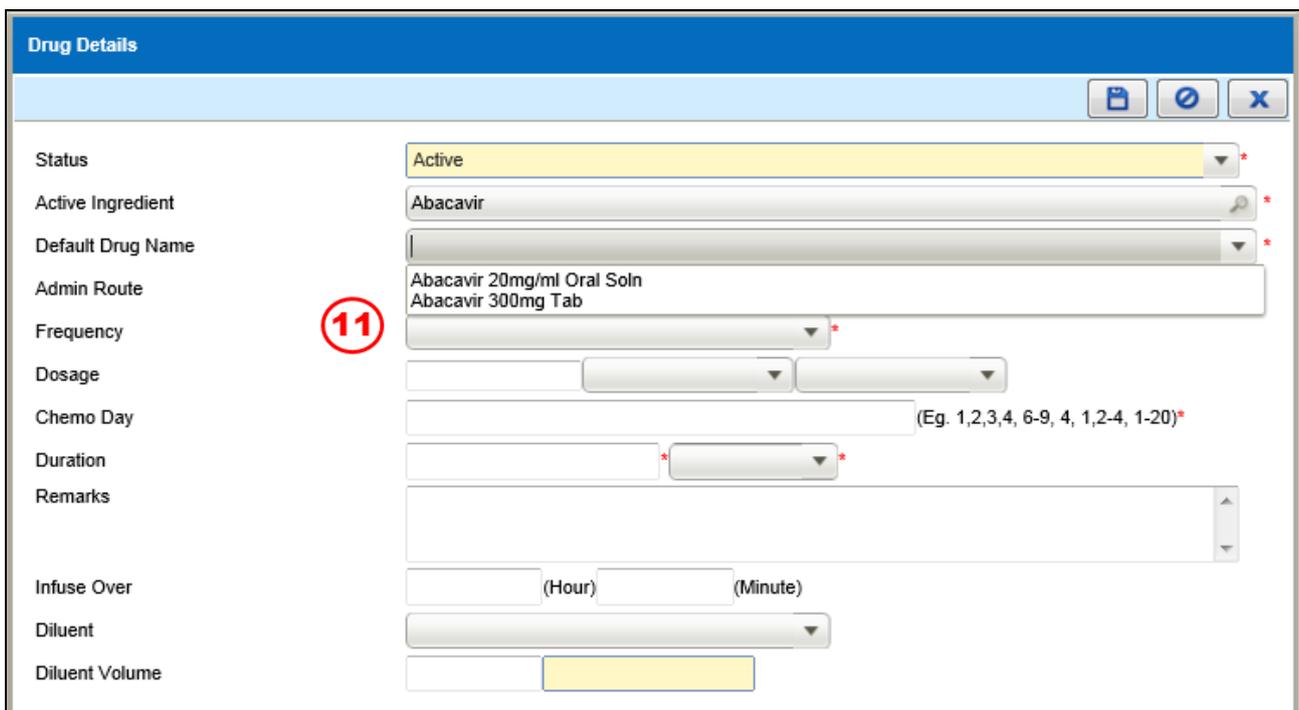


Active Ingredient Code: [] Active Ingredient Description: [] Search []

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



Drug Details

Status: Active *

Active Ingredient: Abacavir *

Default Drug Name: [] *

Admin Route: Abacavir 20mg/ml Oral Soln
Abacavir 300mg Tab

Frequency: **11** [] *

Dosage: [] []

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

Duration: [] *

Remarks: []

Infuse Over: [] (Hour) [] (Minute)

Diluent: []

Diluent Volume: [] []

Figure 3.9.1-9 Active Ingredient

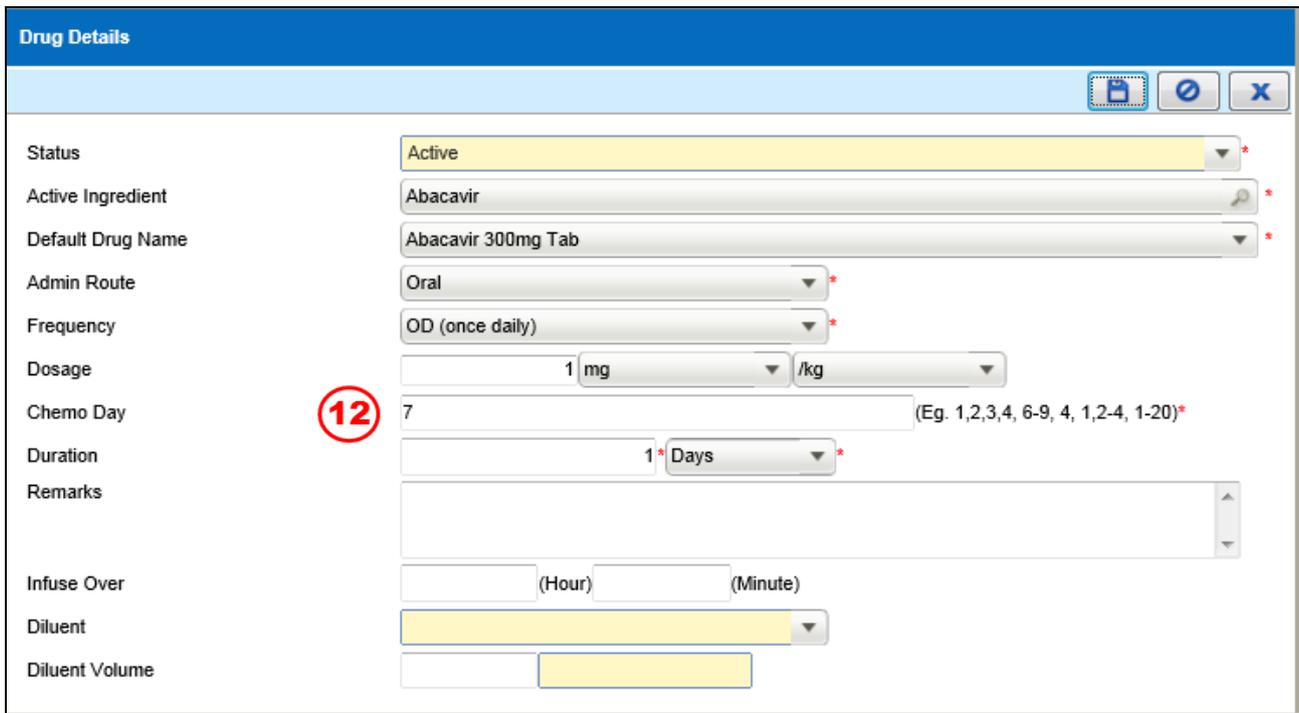
STEP 11

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	

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

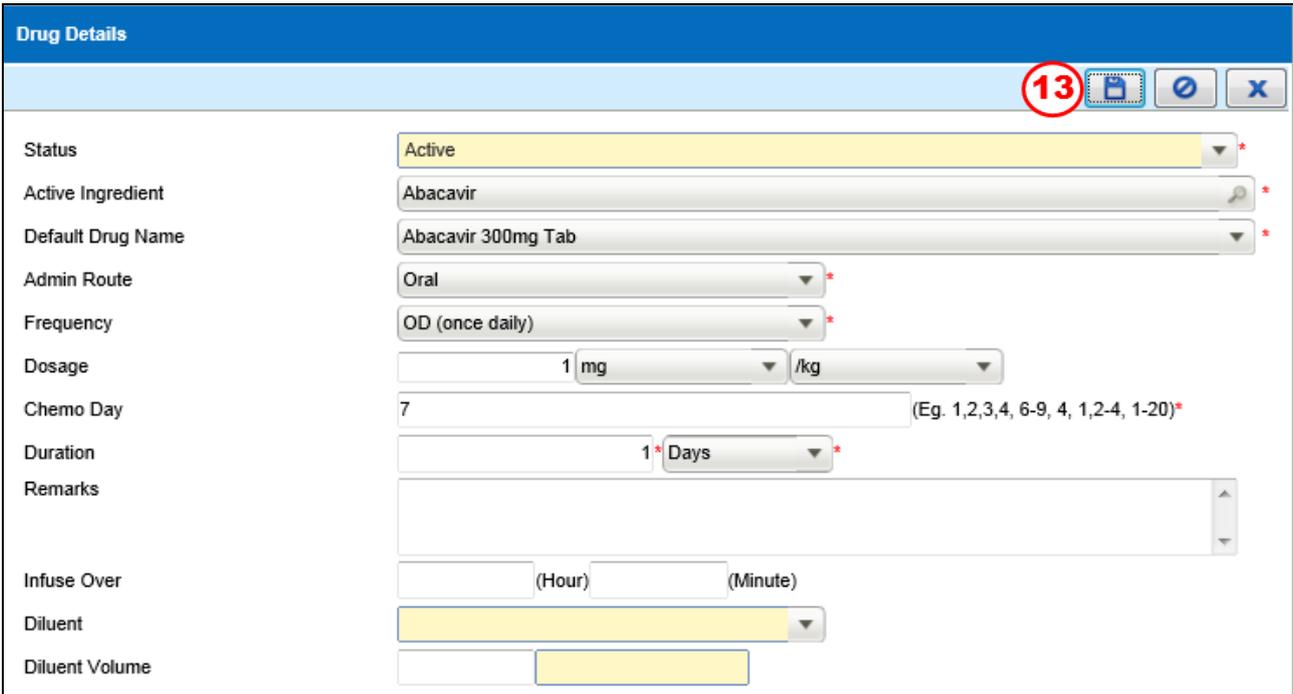


Figure 3.9.1-11 Drug Details

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.

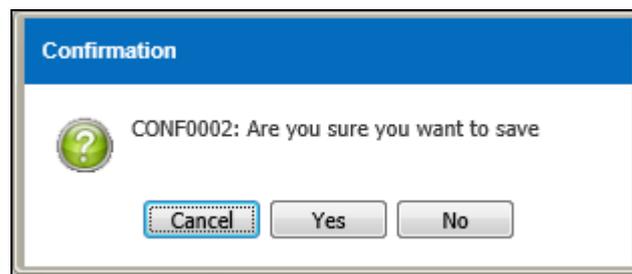


Figure 3.9.1-12 Confirmation Message

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

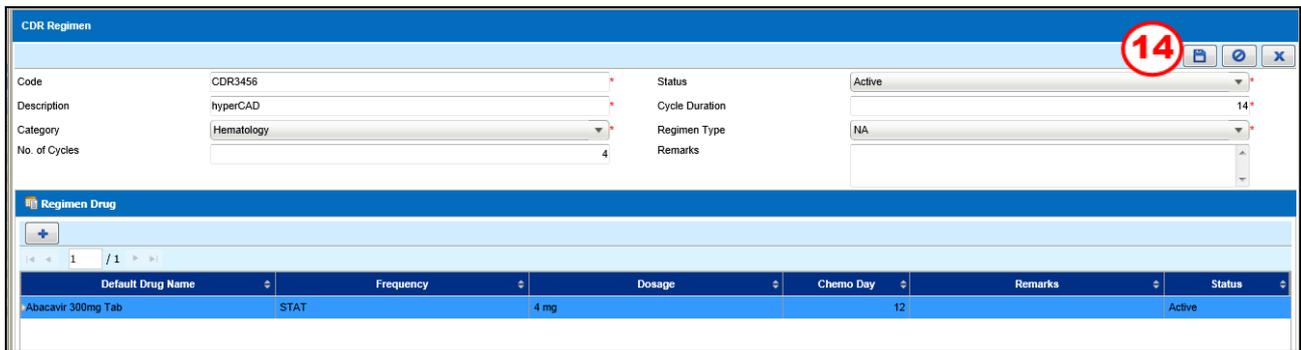


Figure 3.9.1-13 CDR Regimen

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

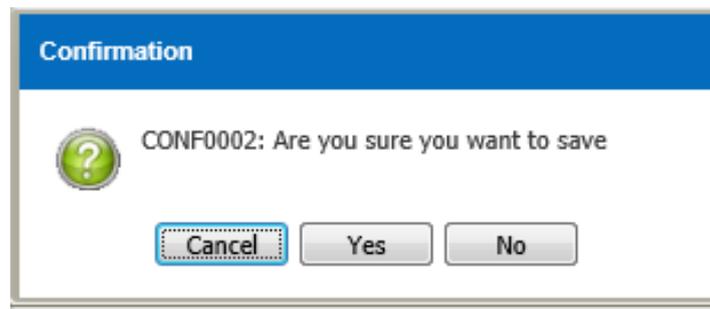


Figure 3.9.1-14 Confirmation Message

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

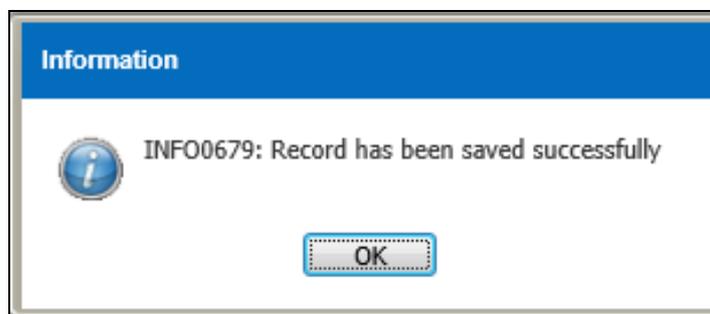
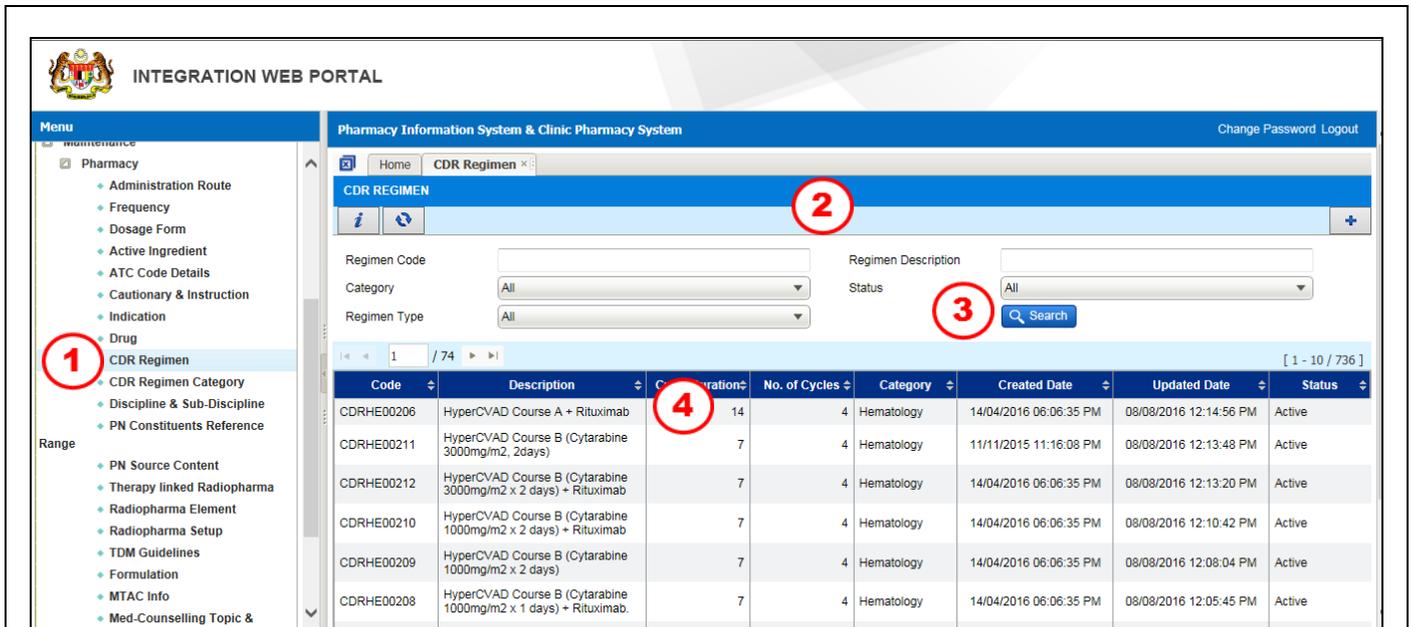


Figure 3.9.1-15 Information Message

- 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:



The screenshot displays the 'INTEGRATION WEB PORTAL' interface. On the left is a 'Menu' sidebar with 'CDR Regimen' highlighted (1). The main area shows the 'Pharmacy Information System & Clinic Pharmacy System' with a 'CDR REGIMEN' header (2). Below the header are search criteria: 'Regimen Code', 'Regimen Description', 'Category', 'Status', and 'Regimen Type', with a 'Search' button (3). A table lists regimen records with columns: Code, Description, Concentration, No. of Cycles, Category, Created Date, Updated Date, and Status. The first record, CDRHE00206, is highlighted, and a double-click icon is shown over it (4).

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:

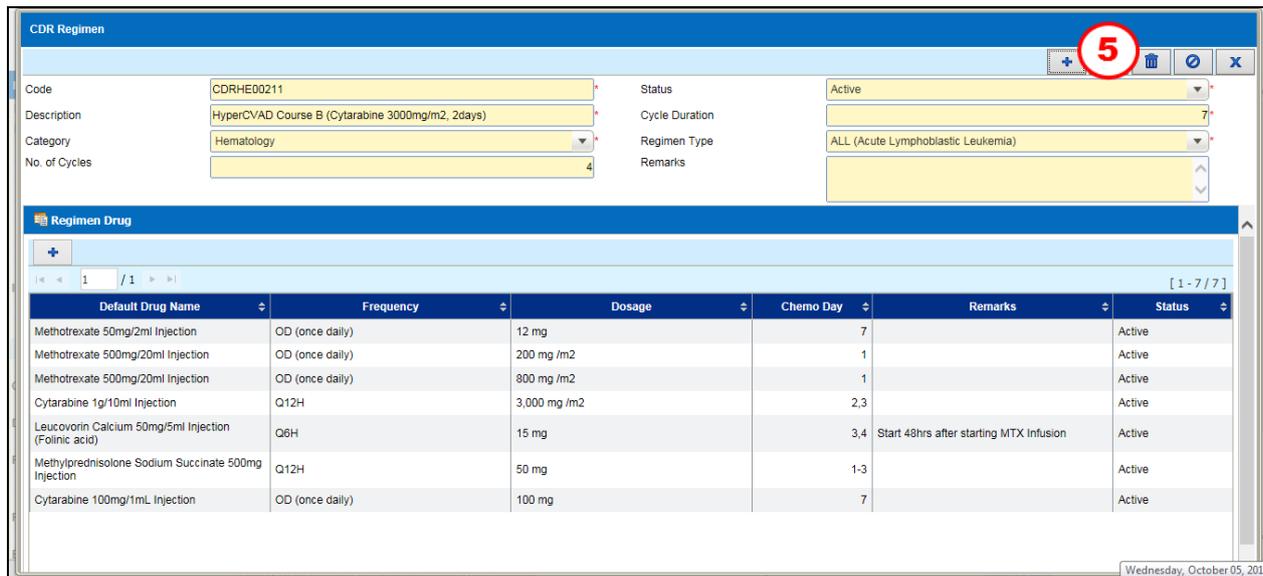
- Regimen Code**
- Regimen Description**
- Category**
- Status**
- Regimen Type**

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



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 (Folic 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

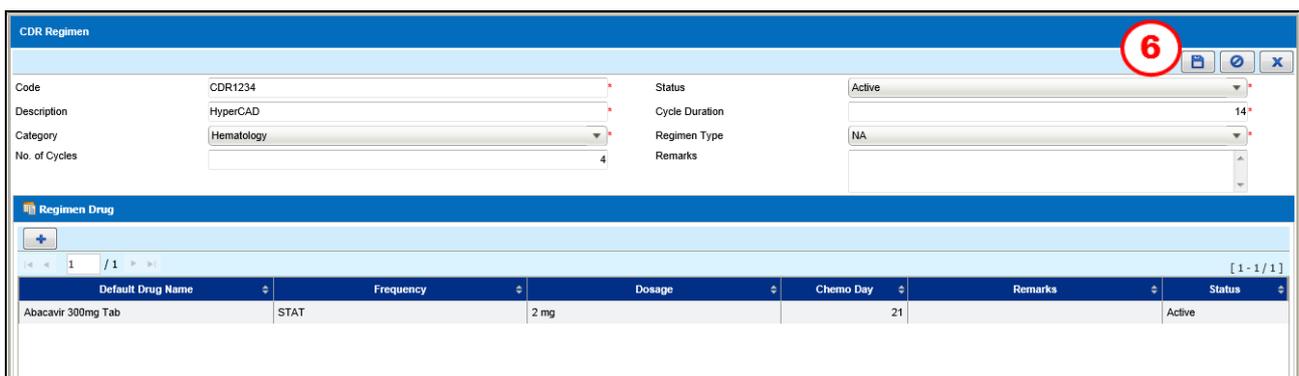


Click on the  button to modify CDR Regimen record

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**



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

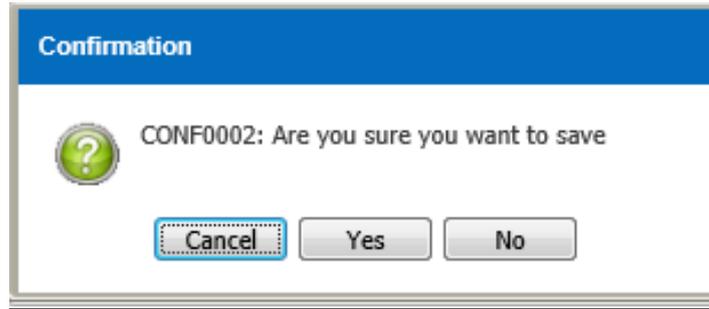


Figure 3.9.2-4 Confirmation Message

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

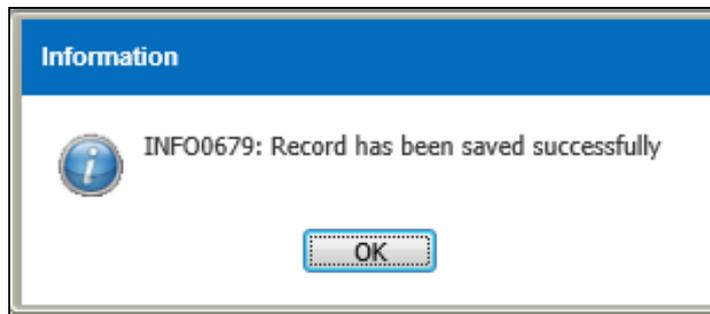


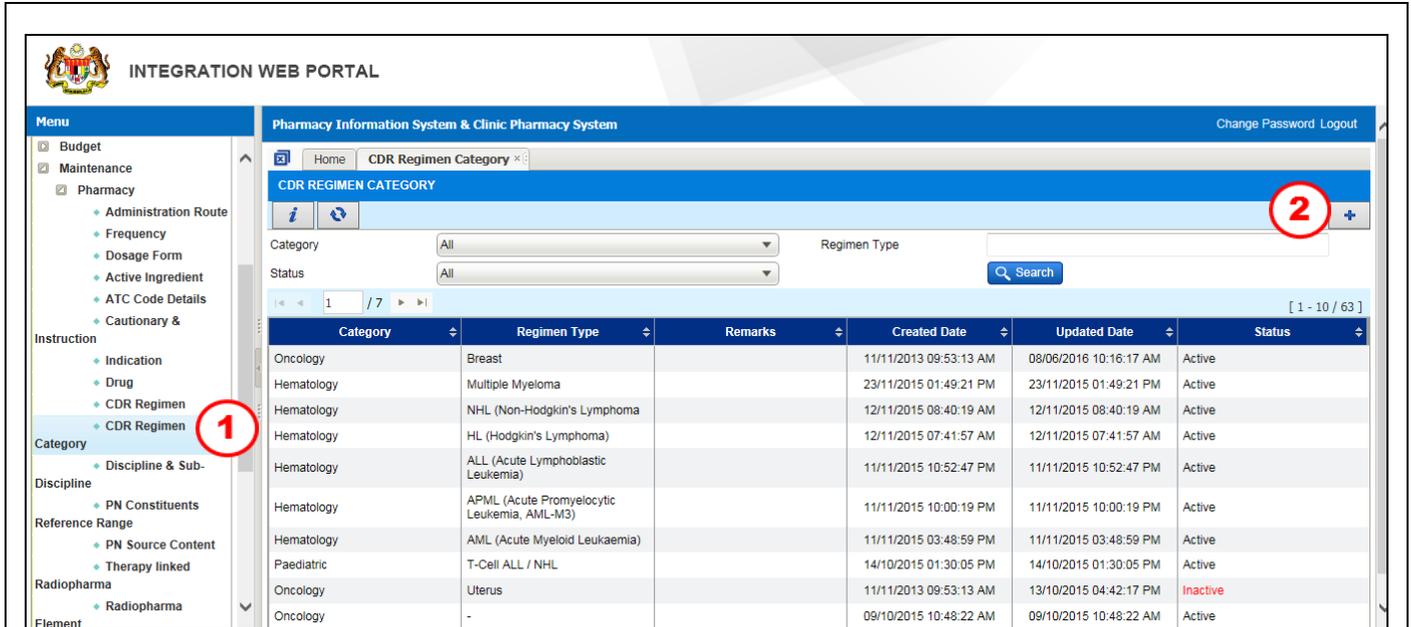
Figure 3.9.2-5 Confirmation Message

- 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

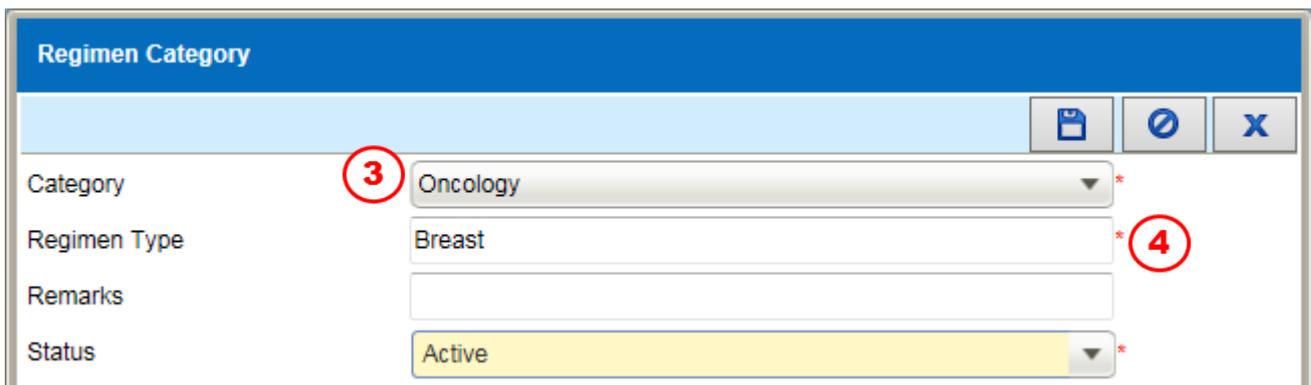


Figure 3.10.1-2 Regimen Category

STEP 3

Select **Category** from drop down box:

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

STEP 4

Enter **Regimen Type**

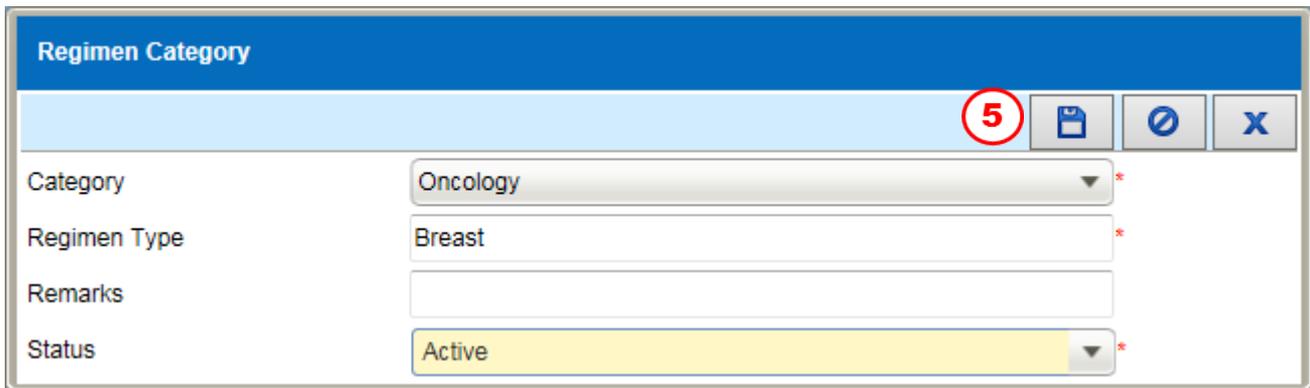


Figure 3.10.1-3 Regimen Category

STEP 5

Click on the  button to save the record

Note

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

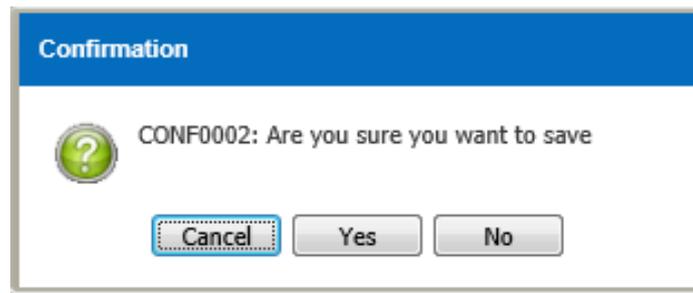
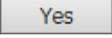
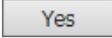


Figure 3.10.1-4 Confirmation Message

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

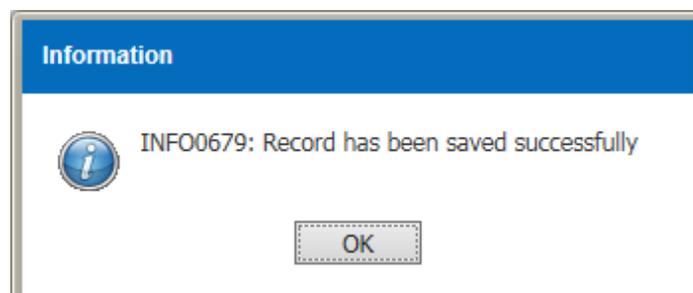


Figure 3.10.1-5 Information Message

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

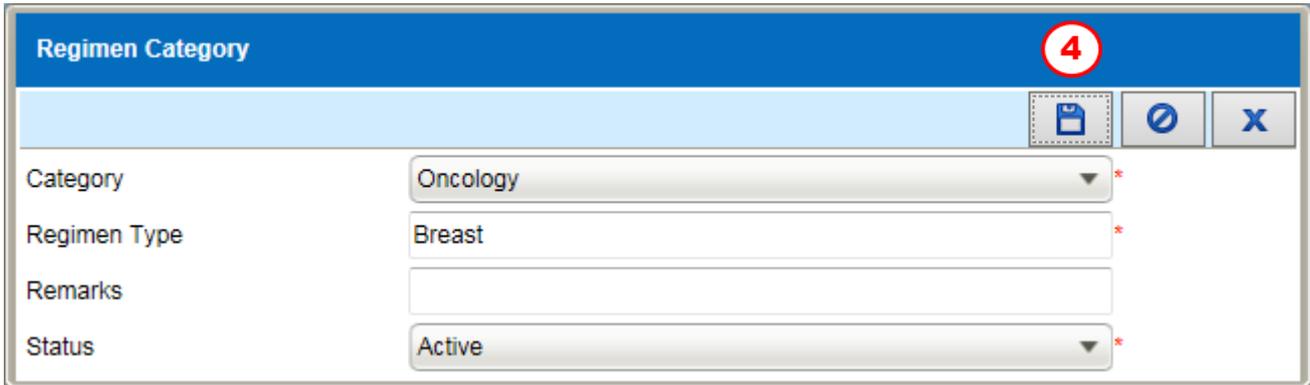


Figure 3.10.2-3 Regimen Category

Note

User is allow 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

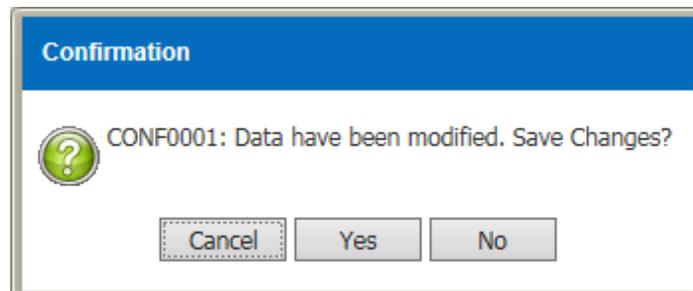
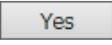
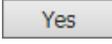


Figure 3.10.2-4 Confirmation Message

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

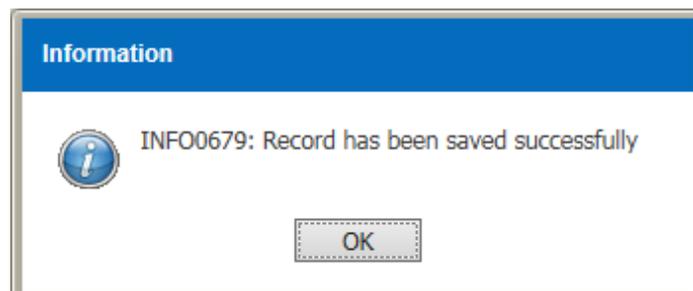


Figure 3.10.2-5 Information Message

- 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:

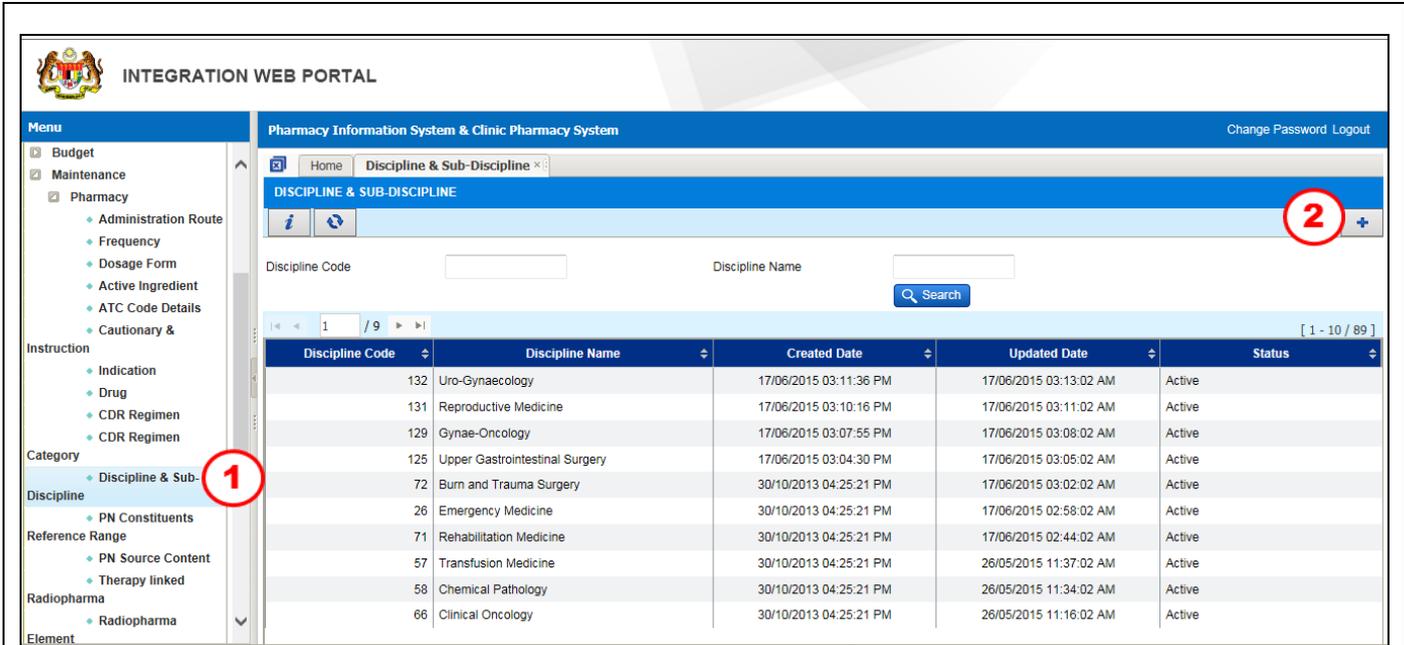


Figure 3.11.1-1 Discipline and Sub Discipline Master Listing Page

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 3.11.1-1 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

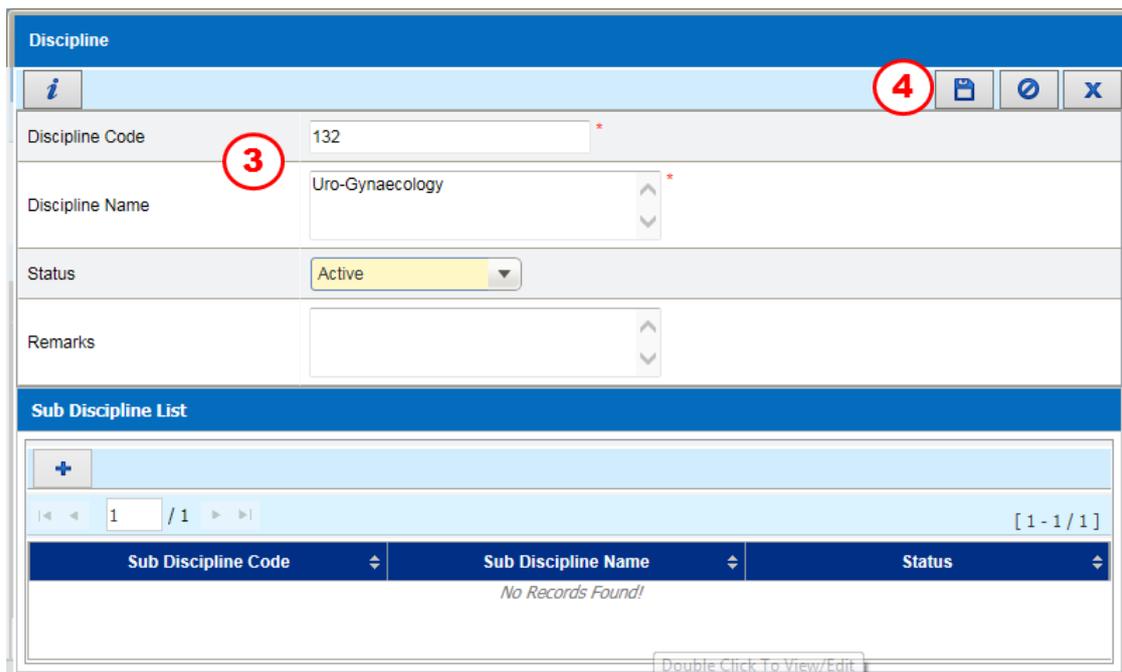


Figure 3.11.1-2 Discipline

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

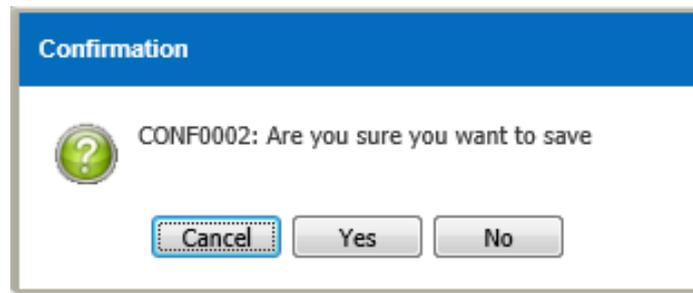
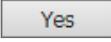


Figure 3.11.1-3 Confirmation Message

- Click on the  button to save the record

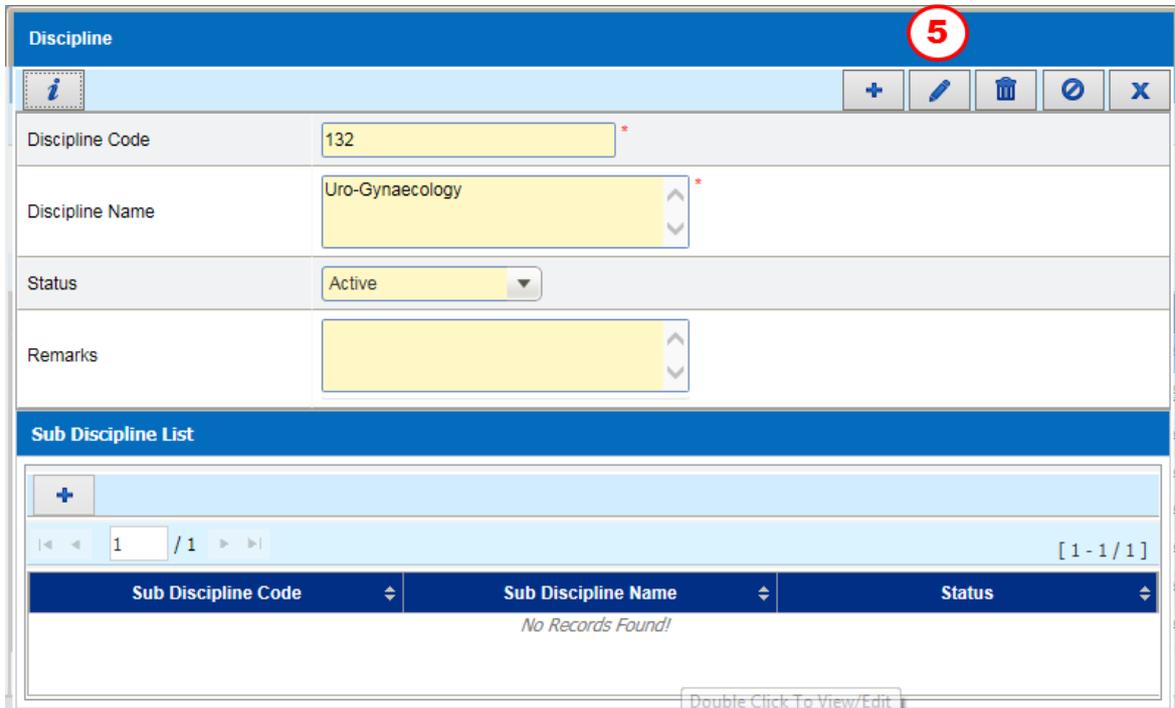


Figure 3.11.1-4 Discipline

STEP 5

Click on the  button to edit the record

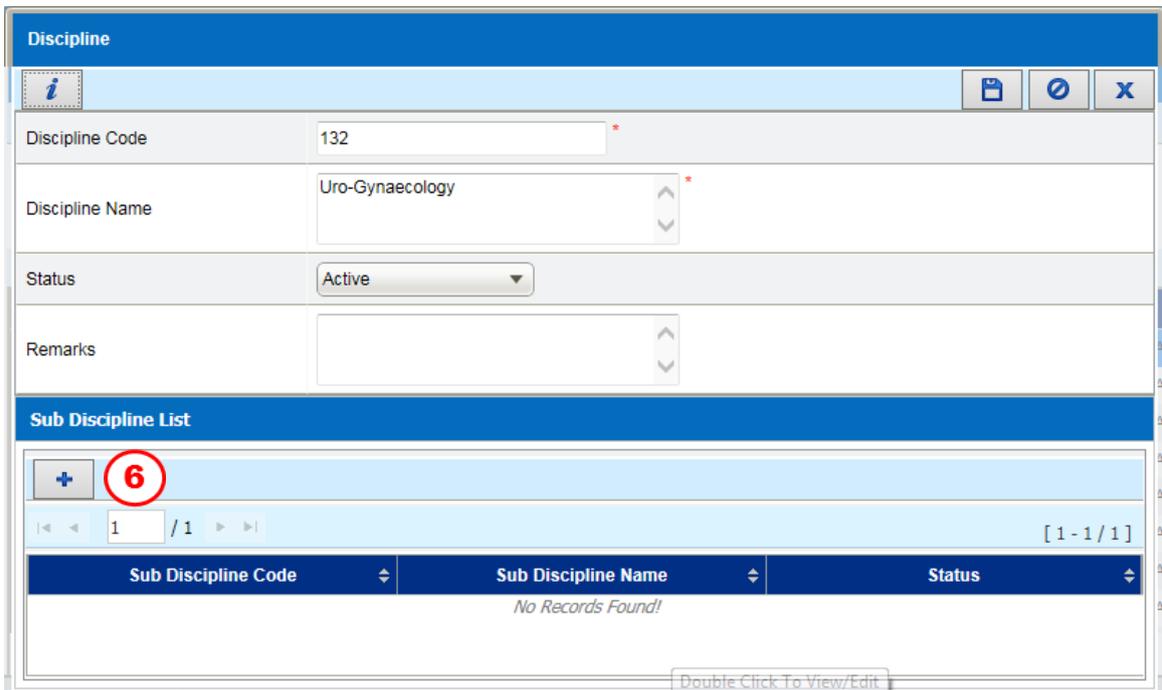


Figure 3.11.1-5 Discipline

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

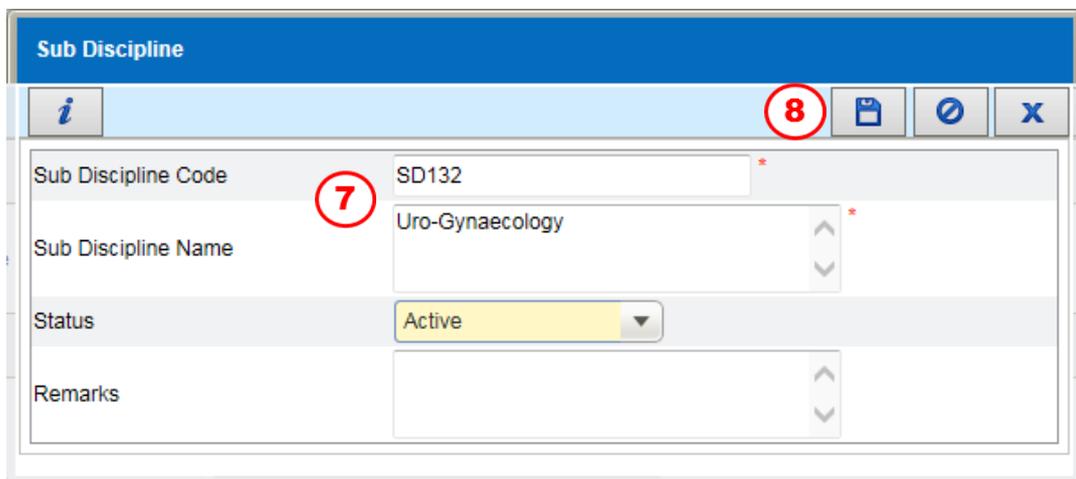


Figure 3.11.1-6 Sub Discipline

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

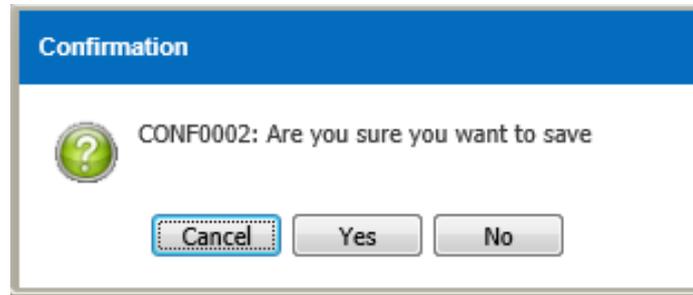


Figure 3.11.1-7 Confirmation Message

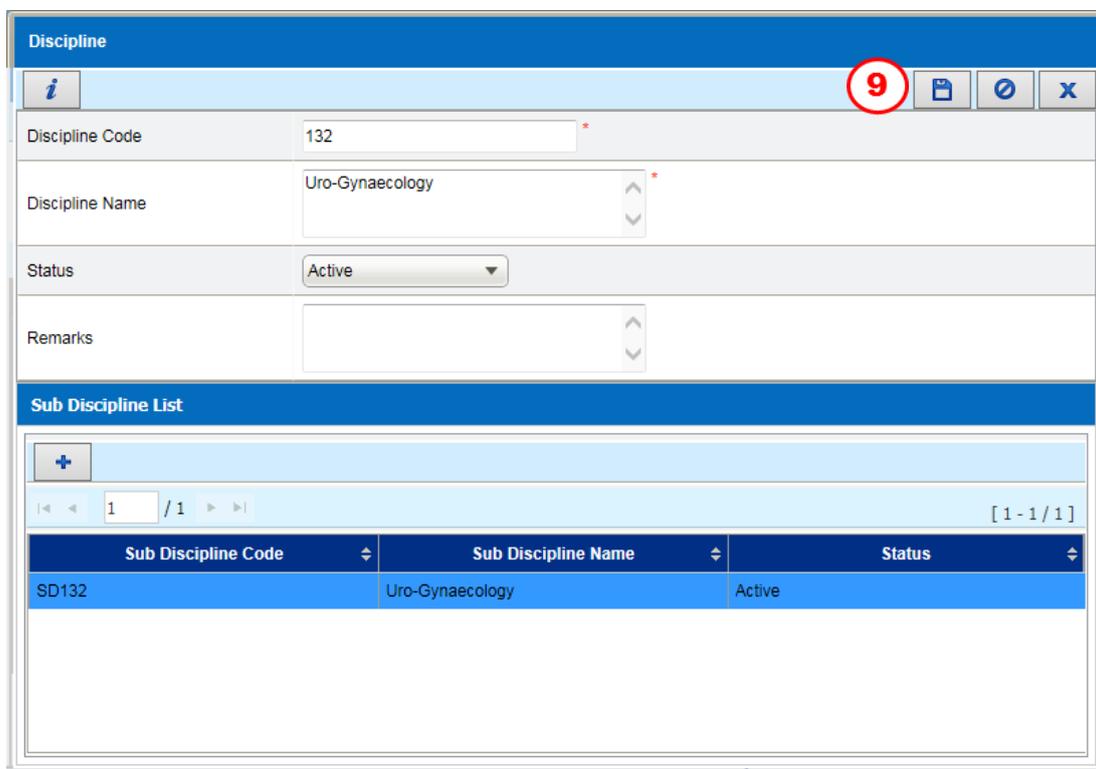


Figure 3.11.1-8 Discipline

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

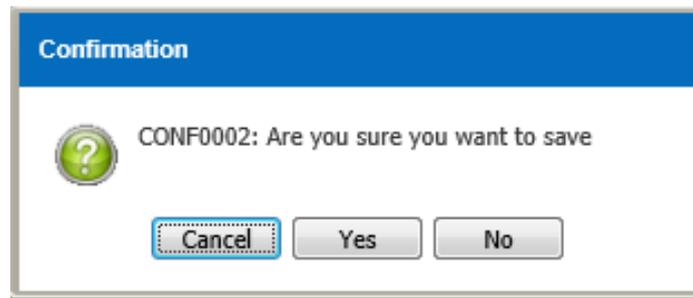
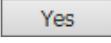
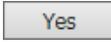


Figure 3.11.1-9 Confirmation Message

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

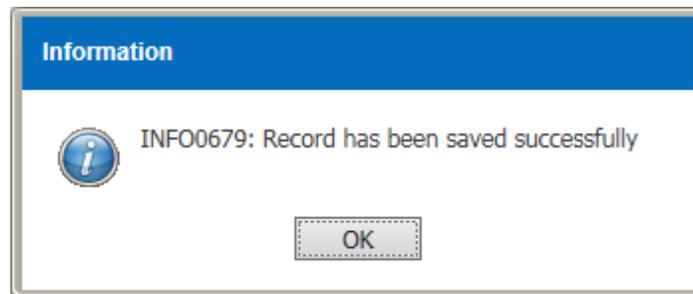


Figure 3.11.1-10 Information Message

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:

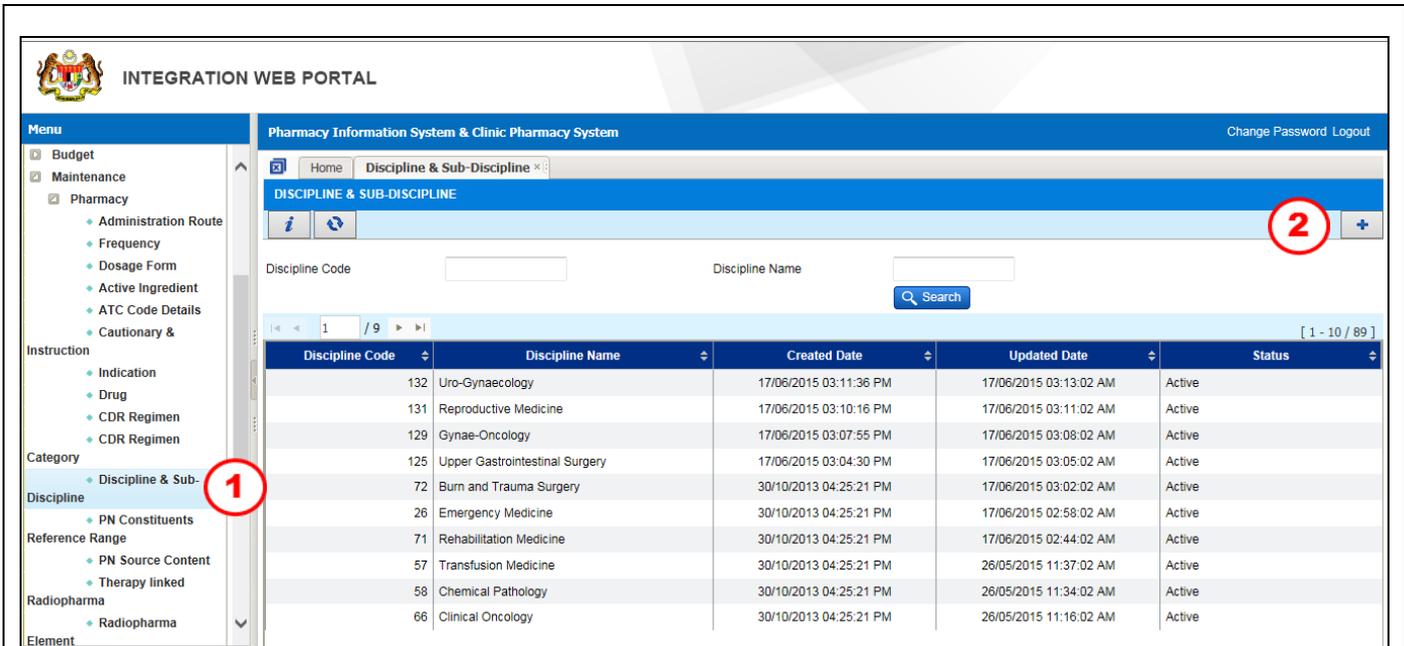


Figure 3.11.2-1 Discipline and Sub Discipline Listing Page

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

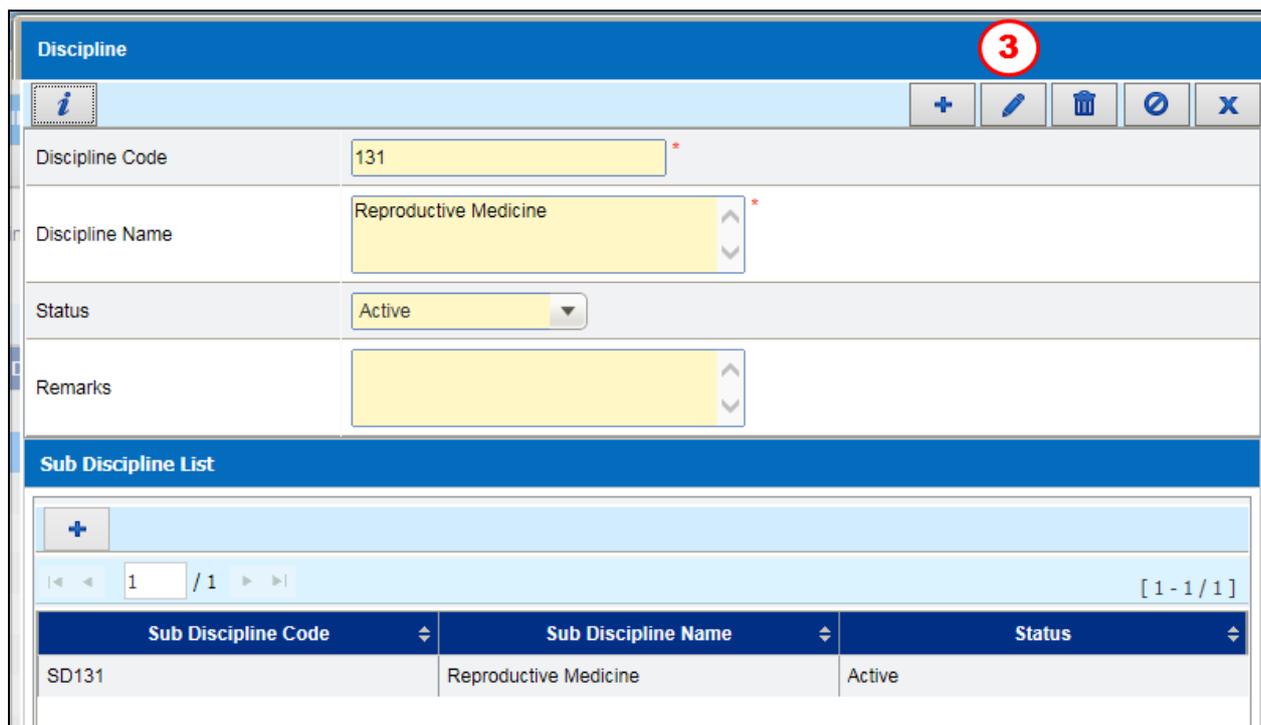


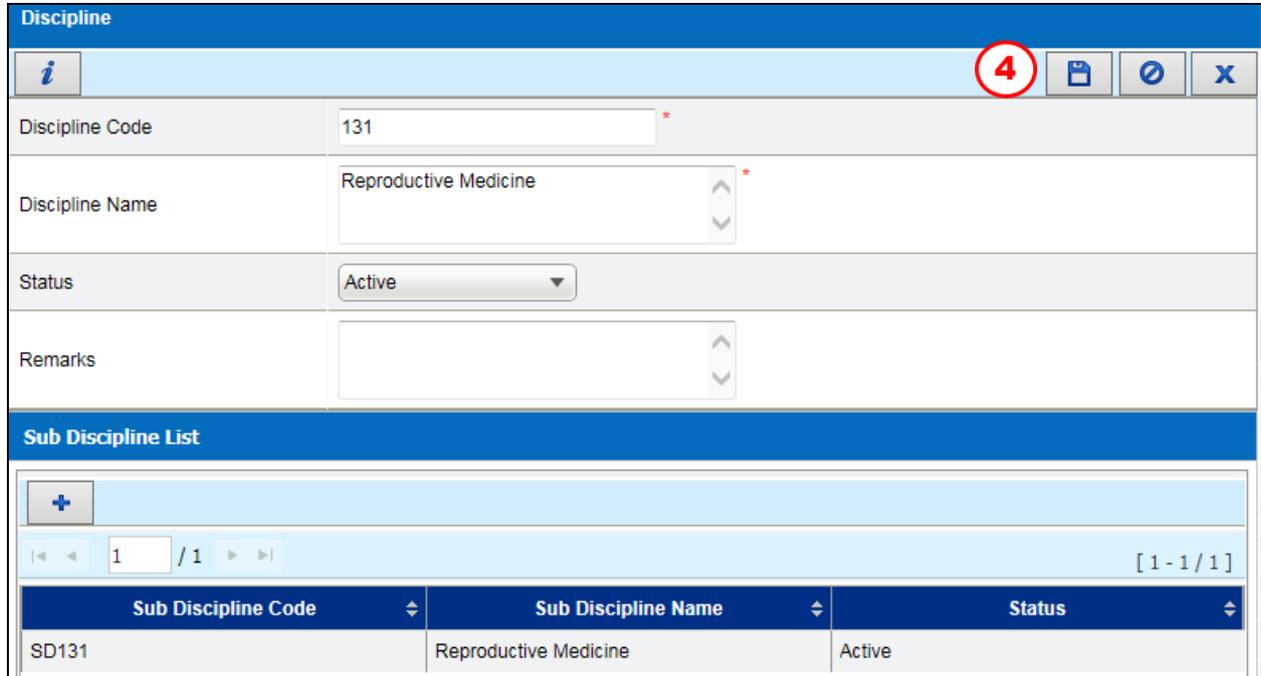
Figure 3.11.2-2 Discipline and Sub Discipline

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

Sub Discipline Code	Sub Discipline Name	Status
SD131	Reproductive Medicine	Active

Figure 3.11.2-3 Discipline and Sub Discipline

Note

User is allow to edit:

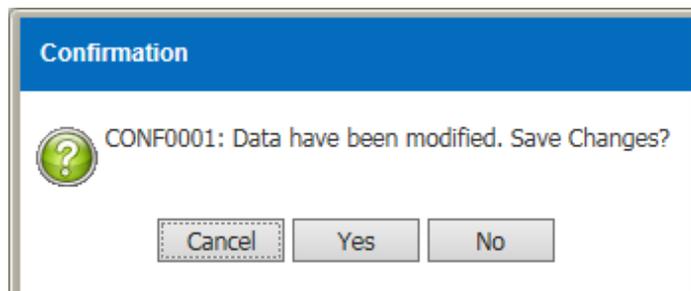
- **Discipline Code**
- **Discipline Name**
- **Status**
- **Remarks**
- **Add Sub Discipline**

STEP 4

Click on the  button to save the edited record

Note

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

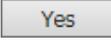
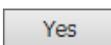


Confirmation

CONF0001: Data have been modified. Save Changes?

Cancel Yes No

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

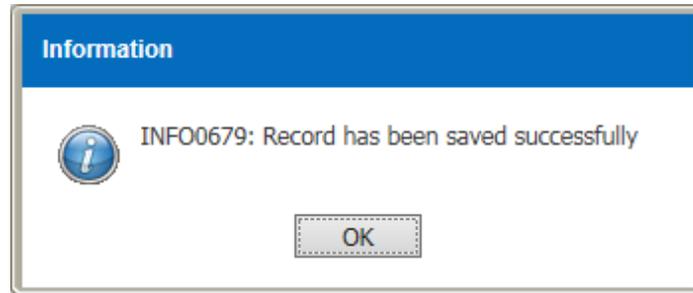


Figure 3.11.2-5 Information Message

- 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:

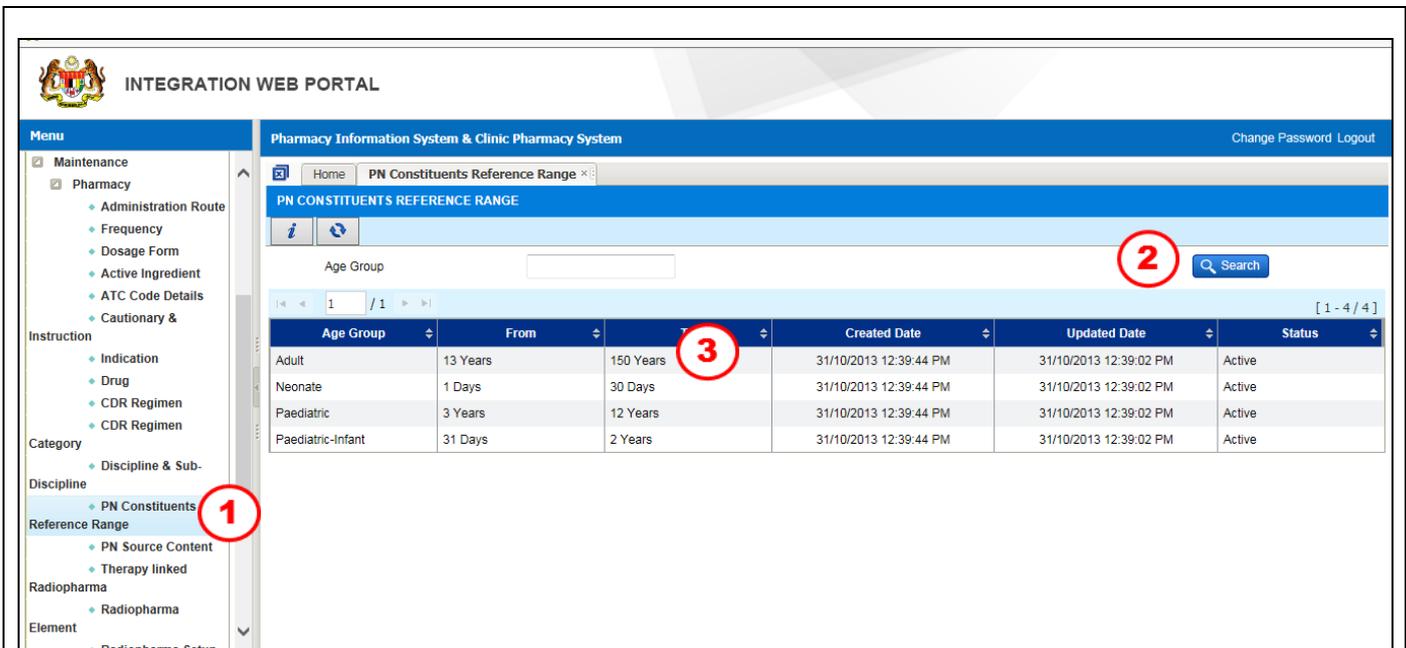


Figure 3.12-1 PN Constituents Reference Range Listing Page

STEP 1

Click on the Pharmacy menu followed by click on the PN Constituents Reference Range 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

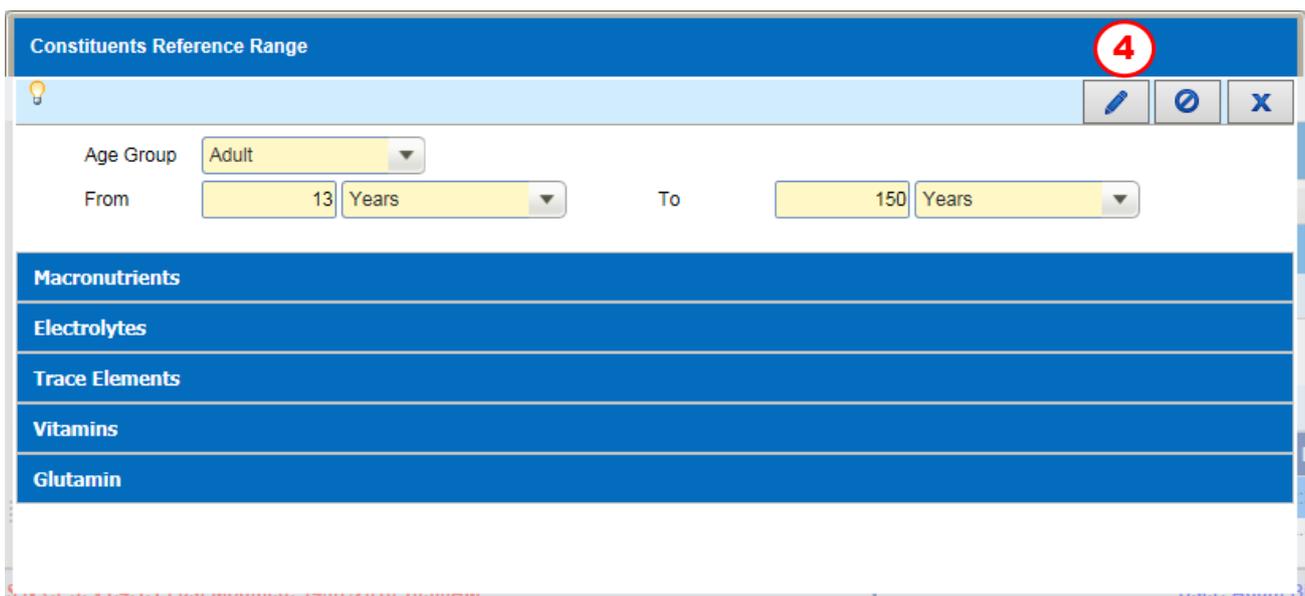


Figure 3.12-2 Constituents Reference Range

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 allow 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 allow 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 allow 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

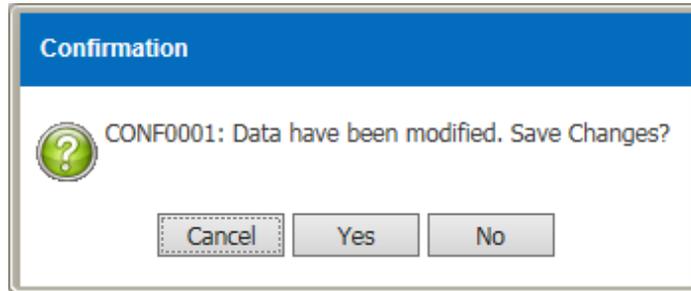
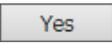
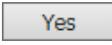


Figure 3.12-9 Confirmation Message

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

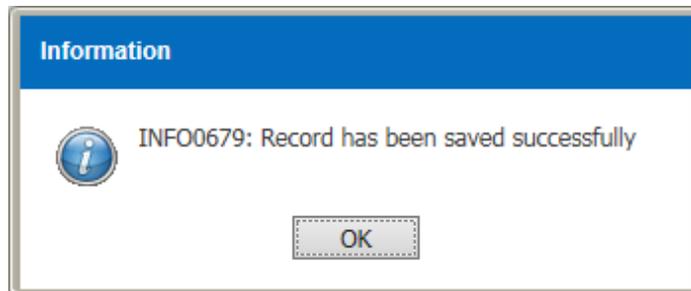
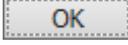
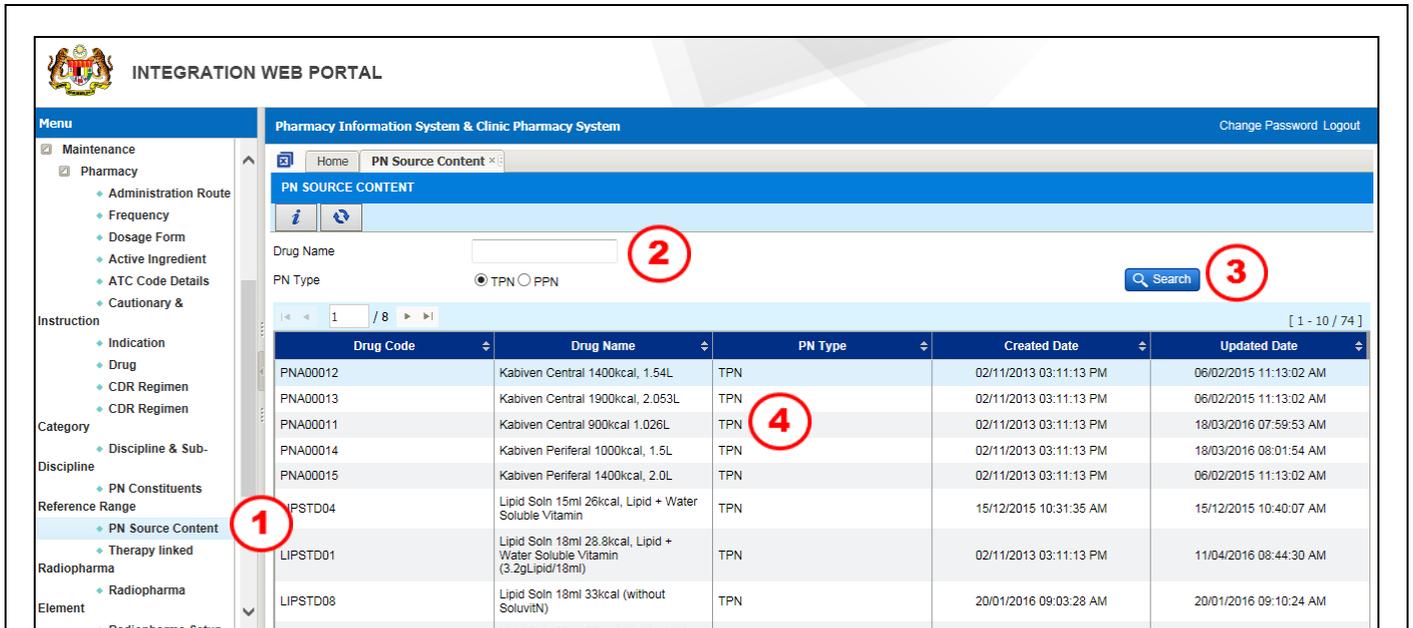


Figure 3.12-10 Information Message

- 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:



INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home PN Source Content

PN SOURCE CONTENT

Drug Name **2**

PN Type TPN PPN **3**

1 / 8 [1 - 10 / 74]

Drug Code	Drug Name	PN Type	Created Date	Updated Date
PNA00012	Kabiven Central 1400kcal, 1.54L	TPN	02/11/2013 03:11:13 PM	06/02/2015 11:13:02 AM
PNA00013	Kabiven Central 1900kcal, 2.053L	TPN	02/11/2013 03:11:13 PM	06/02/2015 11:13:02 AM
PNA00011	Kabiven Central 900kcal 1.026L	TPN	02/11/2013 03:11:13 PM	18/03/2016 07:59:53 AM
PNA00014	Kabiven Periferal 1000kcal, 1.5L	TPN	02/11/2013 03:11:13 PM	18/03/2016 08:01:54 AM
PNA00015	Kabiven Periferal 1400kcal, 2.0L	TPN	02/11/2013 03:11:13 PM	06/02/2015 11:13:02 AM
LIPSTD04	Lipid Soln 15ml 26kcal, Lipid + Water Soluble Vitamin	TPN	15/12/2015 10:31:35 AM	15/12/2015 10:40:07 AM
LIPSTD01	Lipid Soln 18ml 28.8kcal, Lipid + Water Soluble Vitamin (3.2gLipid/18ml)	TPN	02/11/2013 03:11:13 PM	11/04/2016 08:44:30 AM
LIPSTD08	Lipid Soln 18ml 33kcal (without SoluvitN)	TPN	20/01/2016 09:03:28 AM	20/01/2016 09:10:24 AM

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**

- a) **TPN** : Total Parenteral Nutrition
- b) **PPN** : Peripheral Parenteral Nutrition

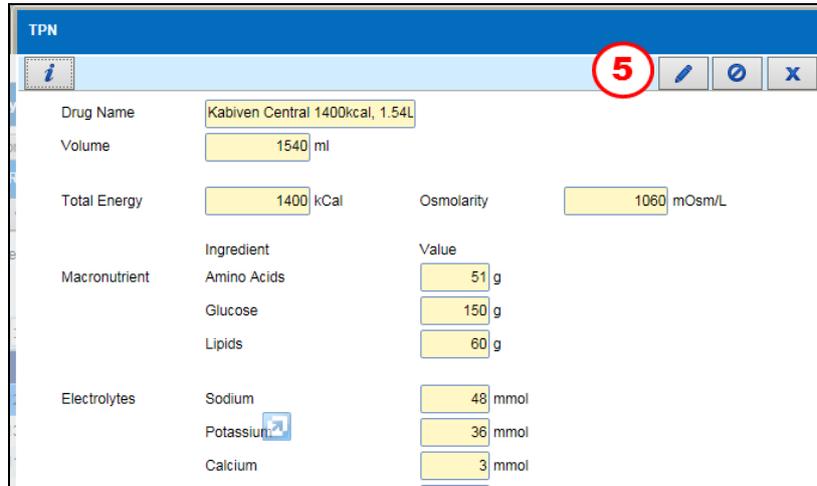
STEP 3

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

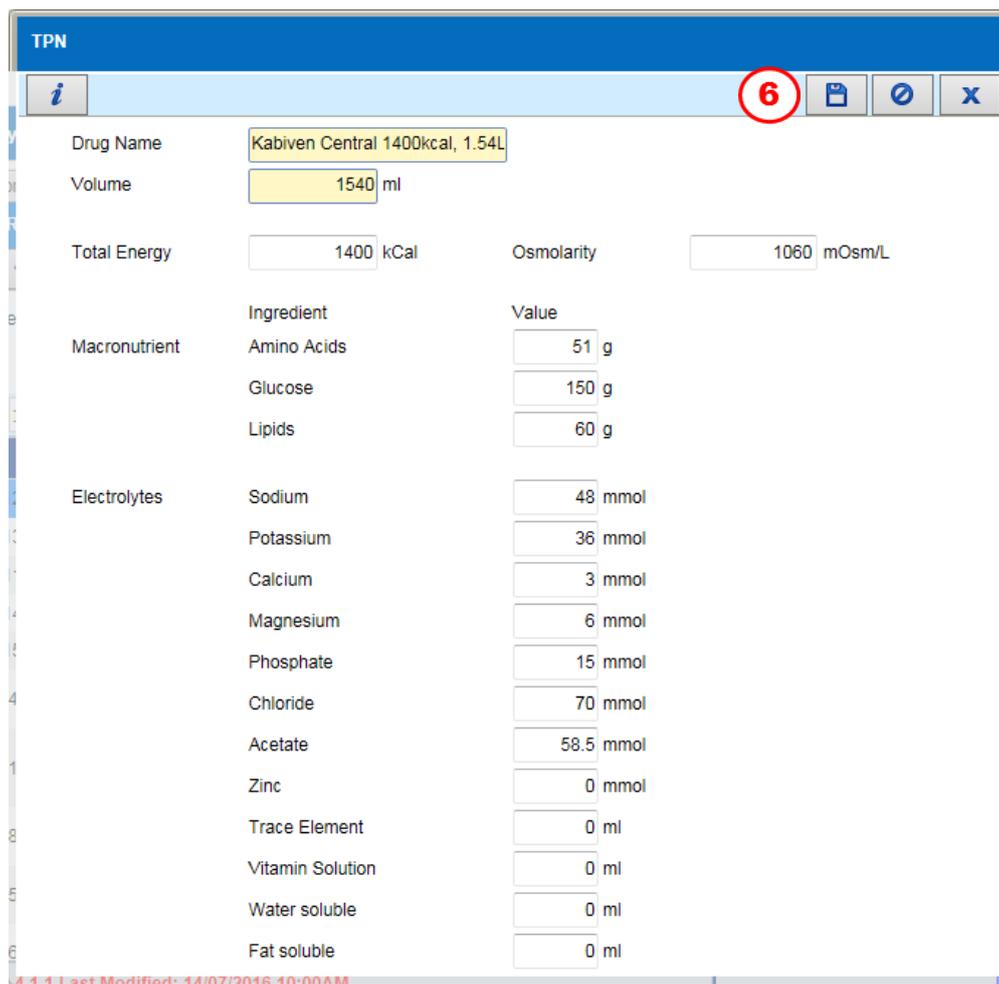


TPN		
Drug Name	Kabiven Central 1400kcal, 1.54L	
Volume	1540 ml	
Total Energy	1400 kCal	Osmolarity 1060 mOsm/L
Macronutrient	Ingredient	Value
	Amino Acids	51 g
	Glucose	150 g
	Lipids	60 g
Electrolytes	Sodium	48 mmol
	Potassium	36 mmol
	Calcium	3 mmol

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 allow 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

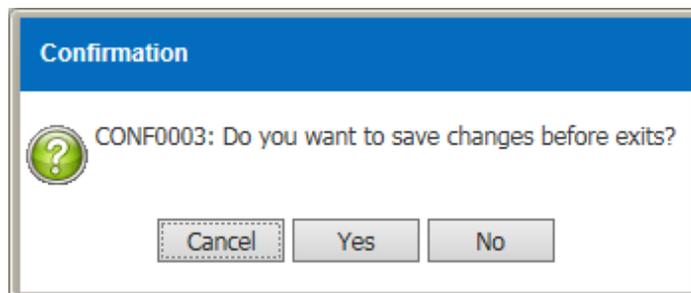
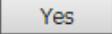
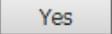


Figure 3.13-4 Confirmation Message

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

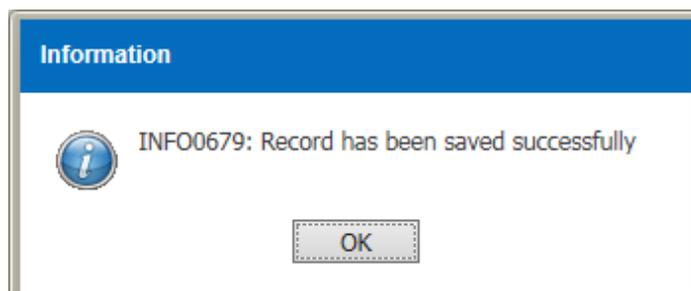
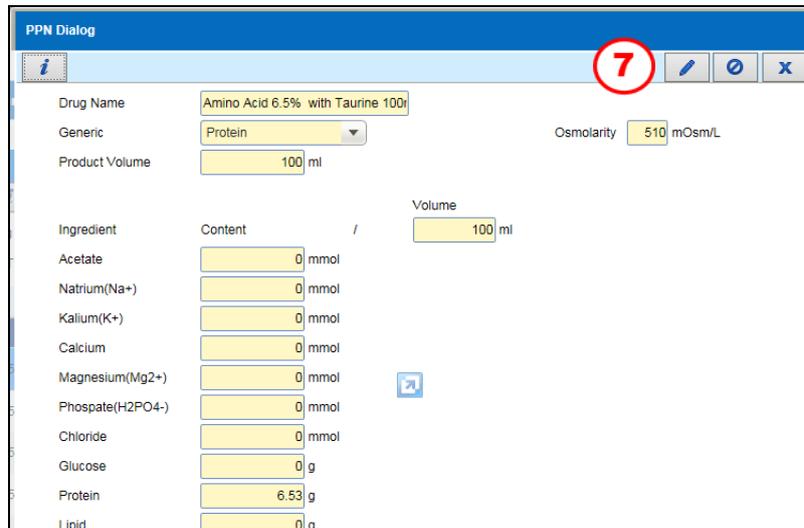


Figure 3.13-5 Information Message

Click on the  button to confirmed the edited record

a) PPN



PPN Dialog

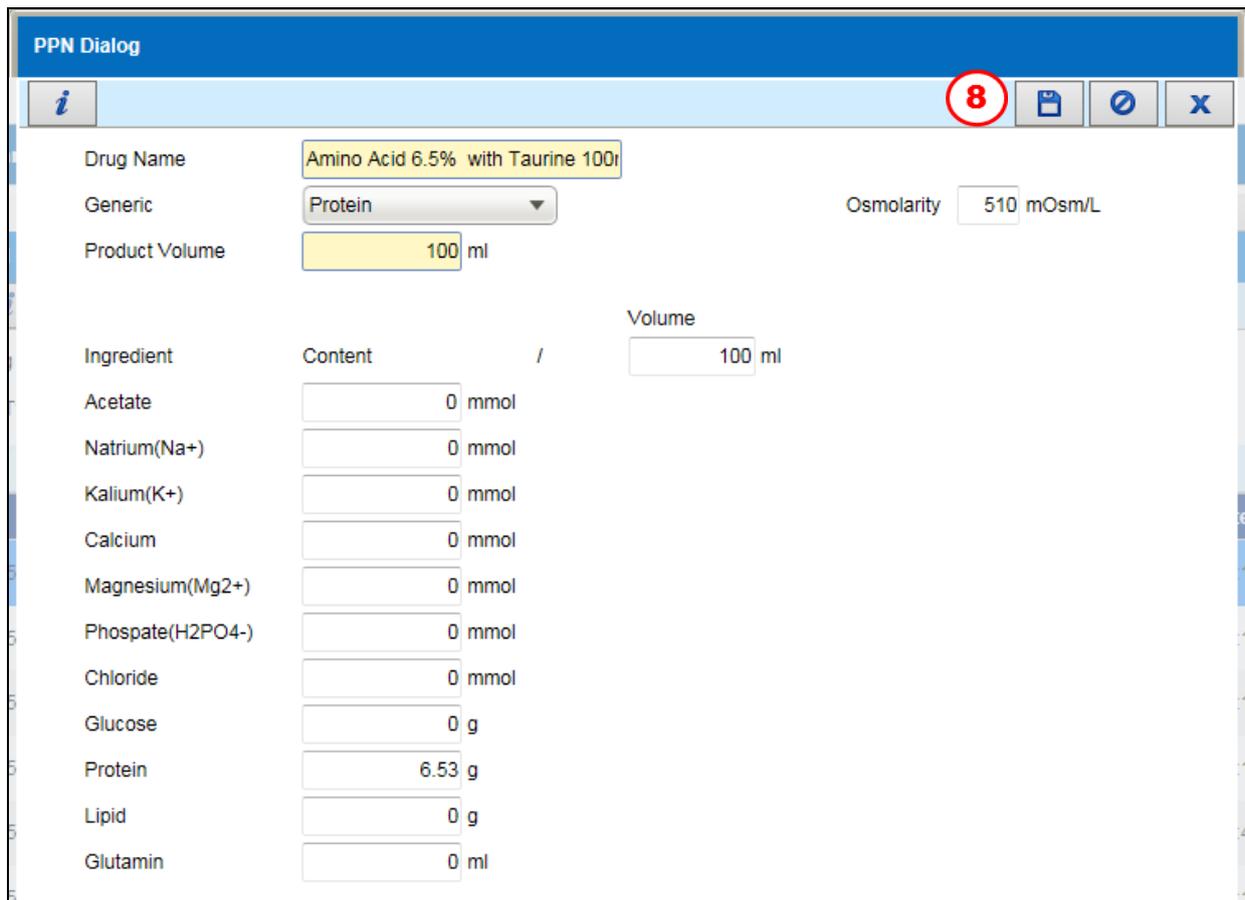
Drug Name: Amino Acid 6.5% with Taurine 100r
 Generic: Protein
 Product Volume: 100 ml
 Osmolarity: 510 mOsm/L

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



PPN Dialog

Drug Name: Amino Acid 6.5% with Taurine 100r
 Generic: Protein
 Product Volume: 100 ml
 Osmolarity: 510 mOsm/L

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 allow 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

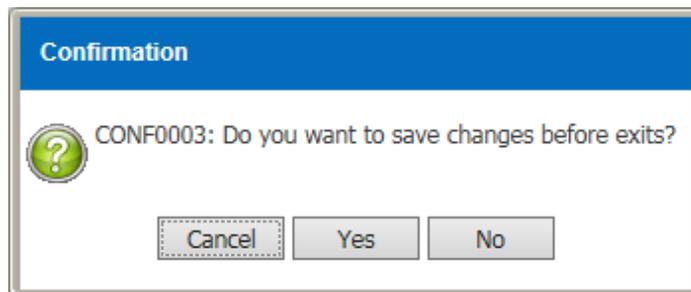
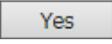
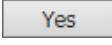


Figure 3.13-8 Confirmation Message

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

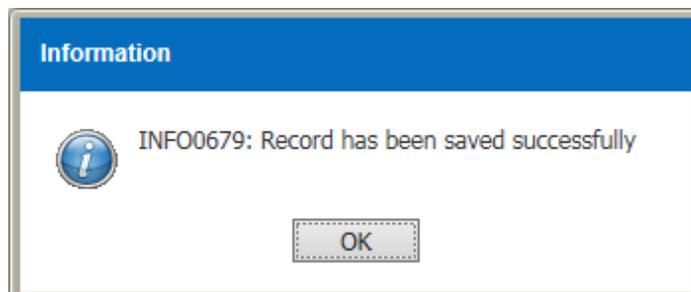


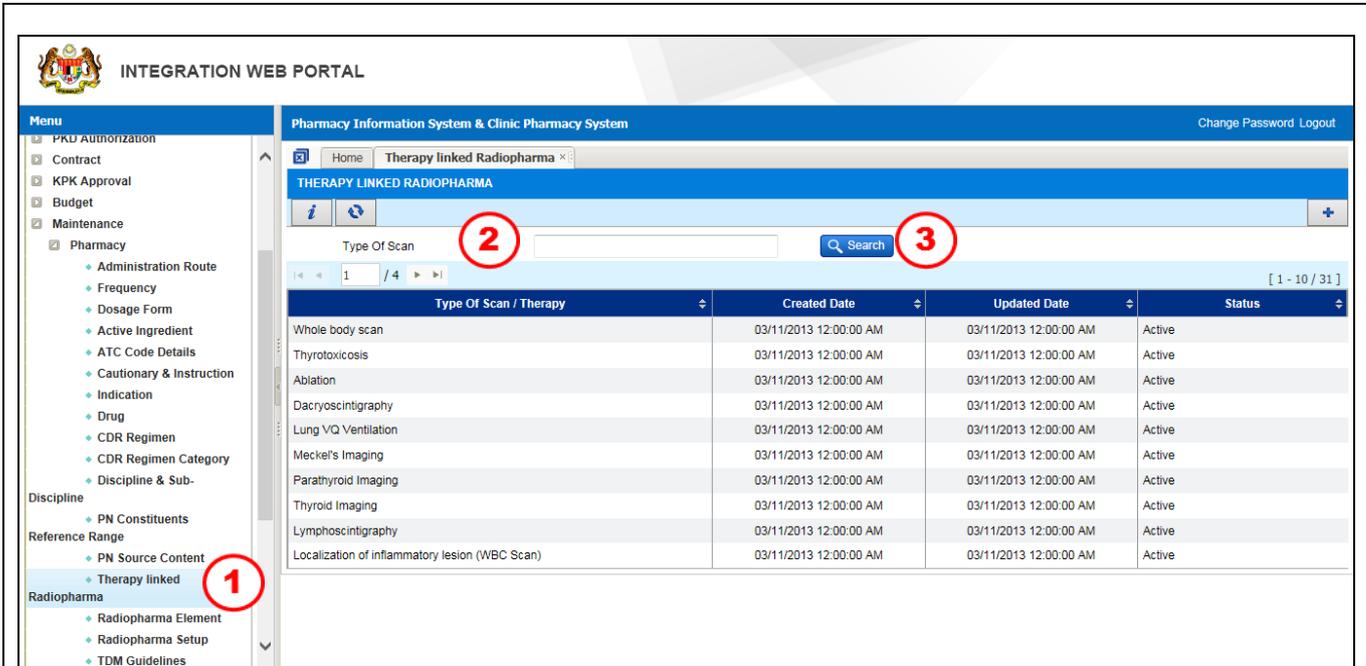
Figure 3.13-9 Information Message

Click on the  button to confirmed the edited record

3.14 Therapy Linked Radiopharma

3.14.1 Create New Therapy Linked Radiopharma

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



INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

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 V/Q 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 3.14.1-1 Therapy Linked Radiopharma Listing Page

STEP 1

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

STEP 2

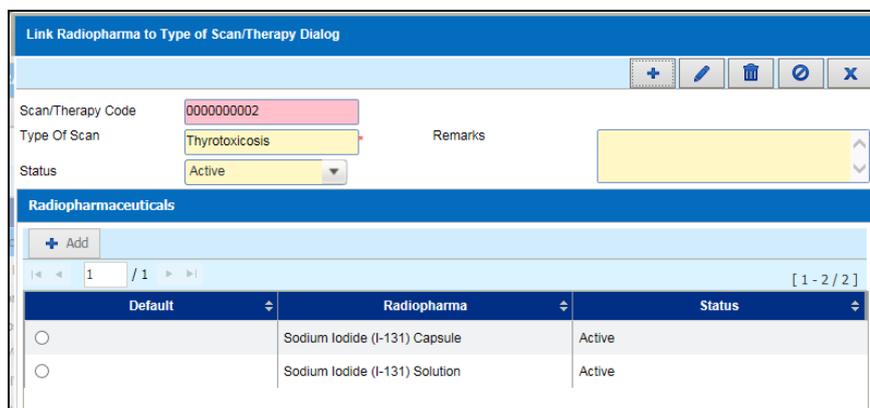
Search existing record by entering *Type Of Scan*

STEP 3

Click on the  button and system will display the related record

Note

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



Link Radiopharma to Type of Scan/Therapy Dialog

Scan/Therapy Code: 000000002

Type Of Scan: Thyrotoxicosis

Status: Active

Radiopharmaceuticals

Default	Radiopharma	Status
<input type="radio"/>	Sodium Iodide (I-131) Capsule	Active
<input type="radio"/>	Sodium Iodide (I-131) Solution	Active

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]

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 V/Q 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: hysterosonogram

Status: Active

Remarks []

Radiopharmaceuticals

+ Add

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

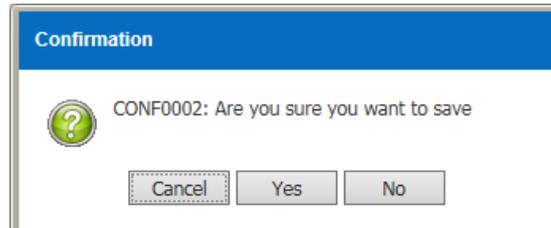


Figure 3.14.1-5 Confirmation Message

- 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

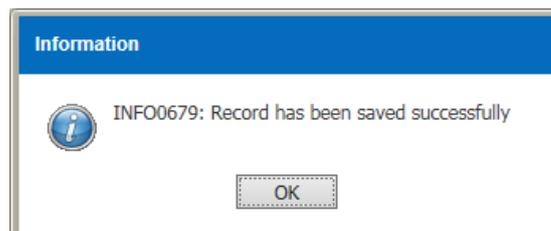


Figure 3.14.1-6 Information Message

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

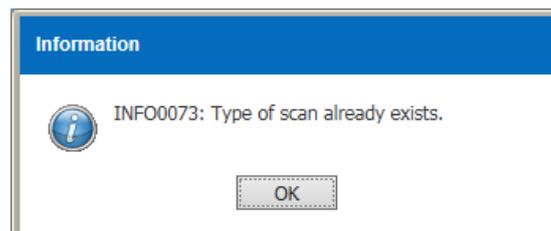


Figure 3.14.1-7 Information Message

- Click on the button

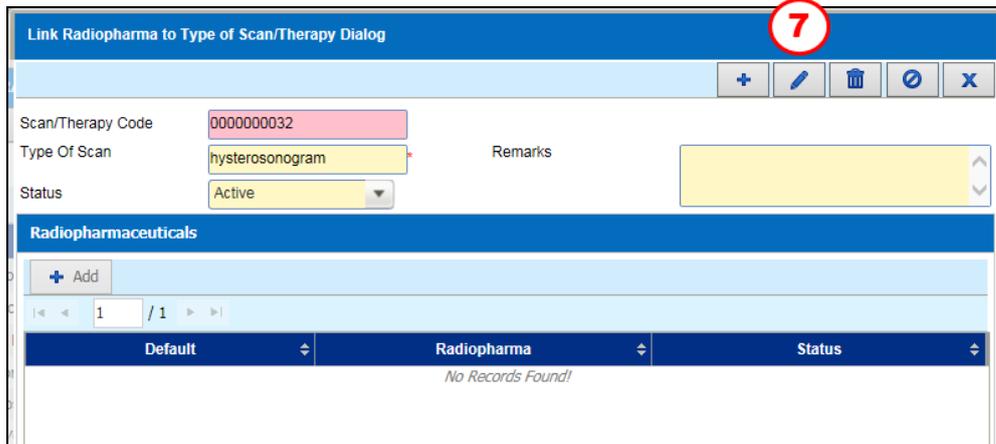


Figure 3.14.1-8 Link Radiopharma to Type of Scan/therapy Dialog

STEP 7

Click on the  button to edit the record

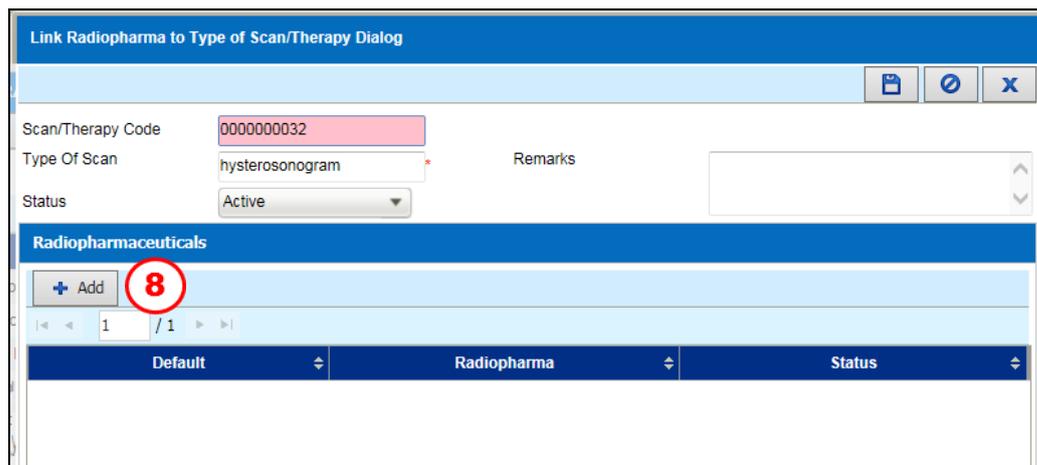


Figure 3.14.1-9 Link Radiopharma to Type of Scan/therapy Dialog

STEP 8

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

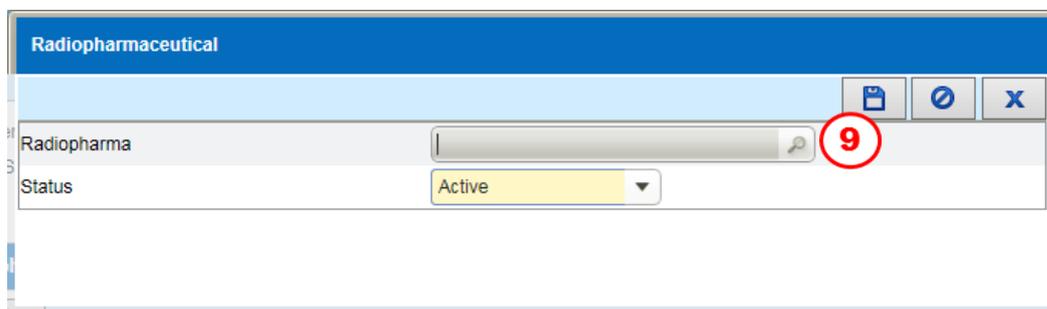
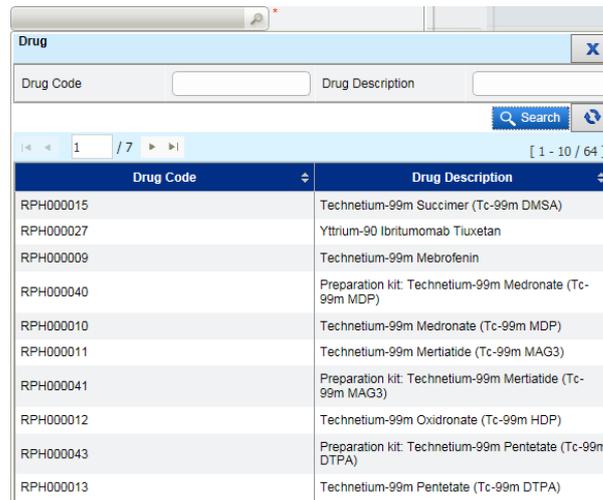


Figure 3.14.1-10 Radiopharmaceutical

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 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)

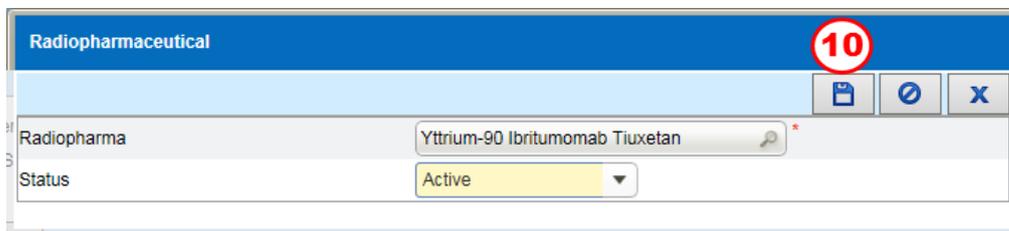
Figure 3.14.1-11 Drug

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

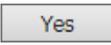
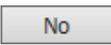
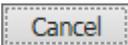
Status: Active

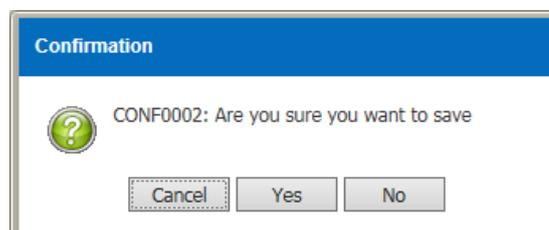
Figure 3.14.1-12 Radiopharmaceutical

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

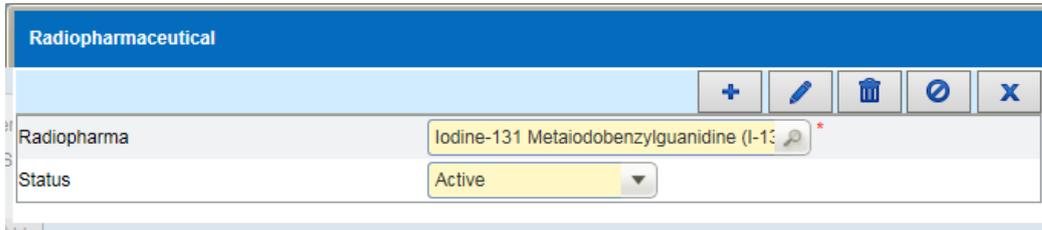


Confirmation

CONF0002: Are you sure you want to save

Figure 3.14.1-13 Confirmation Message

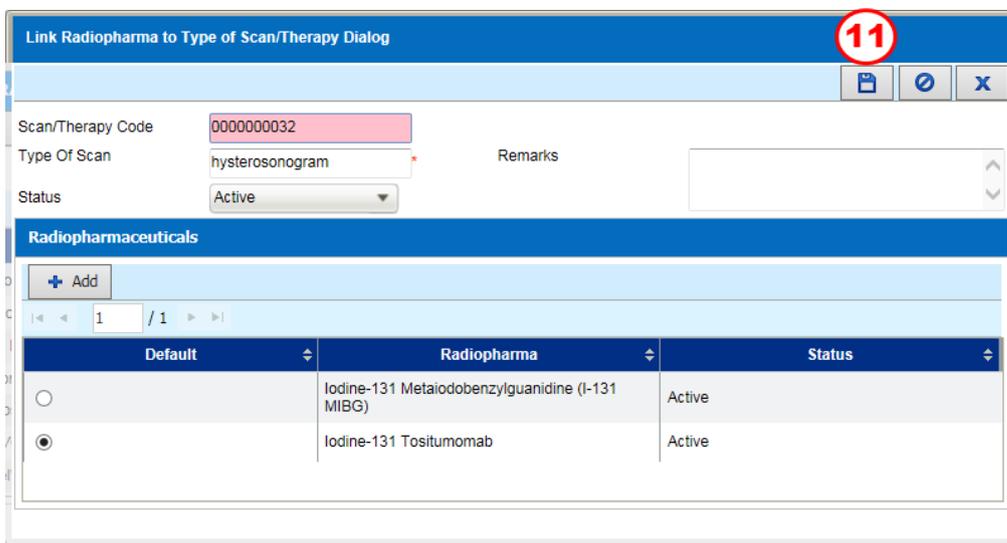


The screenshot shows a form titled "Radiopharmaceutical". It has a header bar with a blue background and the title. Below the header, there are several buttons: a plus sign (+), a pencil (edit), a trash can (delete), a refresh (refresh), and a close (X). The form contains two main fields: "Radiopharma" with a text input containing "Iodine-131 Metaiodobenzylguanidine (I-131)" and a status dropdown menu set to "Active".

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.



The screenshot shows a dialog box titled "Link Radiopharma to Type of Scan/Therapy Dialog". It has a blue header bar with a red circle containing the number "11" in the top right corner. The dialog contains several fields: "Scan/Therapy Code" (000000032), "Type Of Scan" (hysterosonogram), and "Status" (Active). Below these fields is a table titled "Radiopharmaceuticals". The table has columns for "Default", "Radiopharma", and "Status". There are two rows of data, each with a radio button in the "Default" column.

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

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

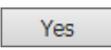
Note

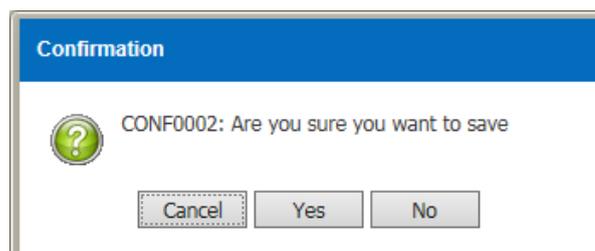
If there is more than 1 drug under Radiopharmaceuticals, user is allow to set default drug by click on button

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



The screenshot shows a "Confirmation" dialog box. It has a blue header bar with the title "Confirmation". The main area contains a green question mark icon and the text "CONF0002: Are you sure you want to save". At the bottom, there are three buttons: "Cancel", "Yes", and "No".

Figure 3.14.1-16 Confirmation Messa

3.14.2 Modify Therapy Linked Radiopharma

To modify Therapy Linked Radiopharma records, perform the steps below:

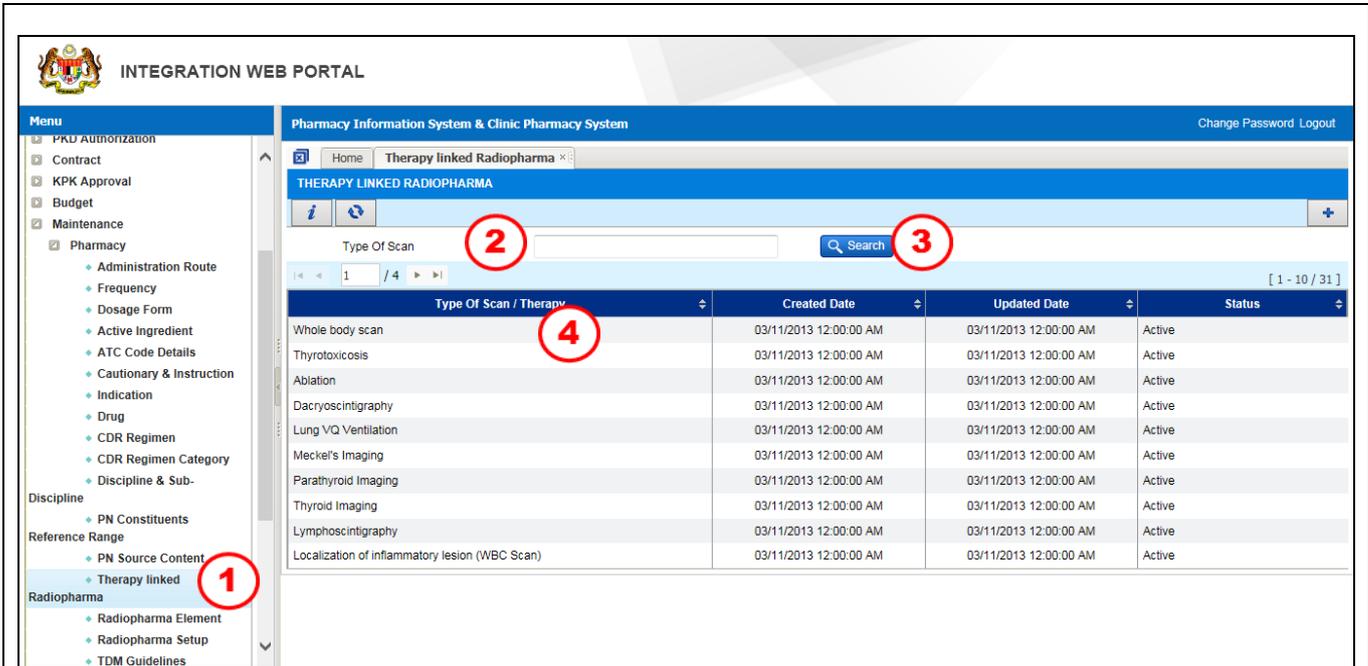


Figure 3.14.2-1 Therapy Linked Radiopharma Listing Page

STEP 1

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

STEP 2

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

STEP 3

Click on the Search button and system will display related record

STEP 4

Click on the selected record

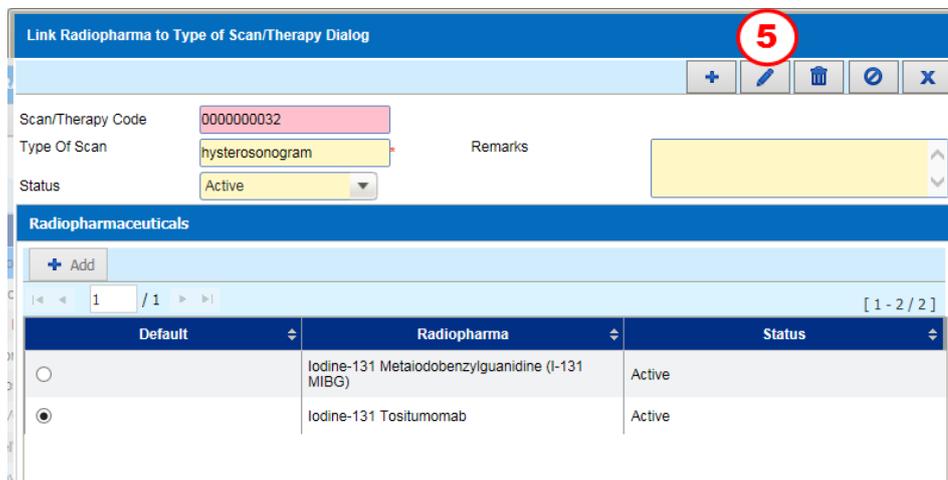
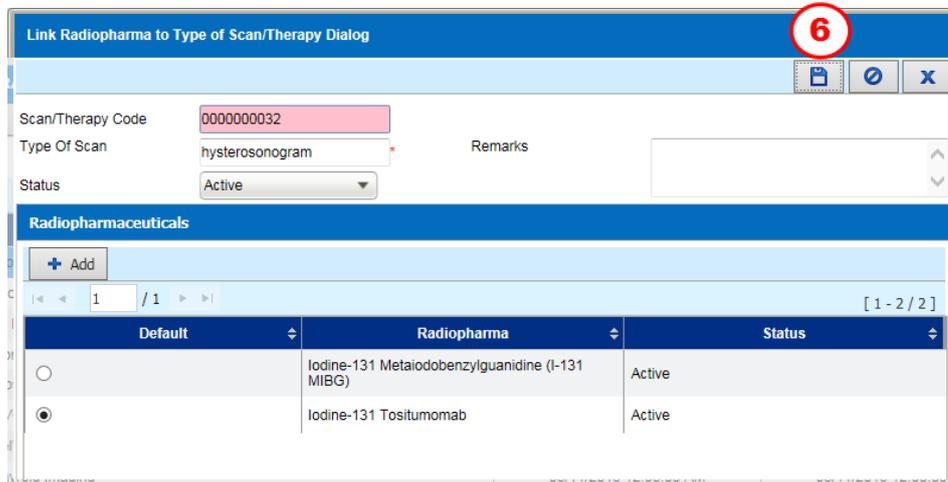


Figure 3.14.2-2 Link Radiopharma to Type of Scan/Therapy Dialog

STEP 5

Click on the  button to edit the record



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

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

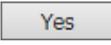
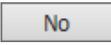
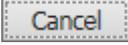
Note

- User is allow 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

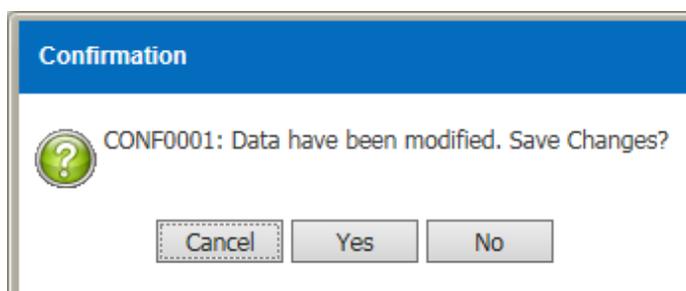


Figure 3.14.2-4 Confirmation Message

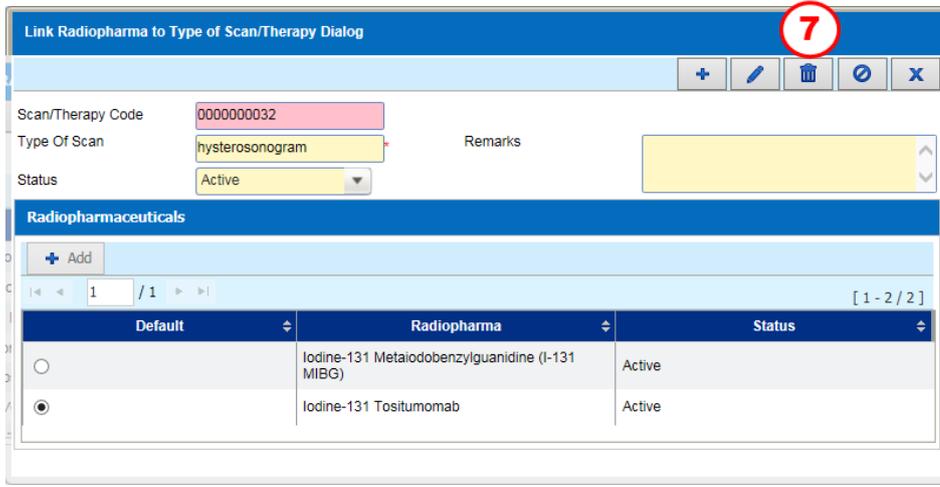
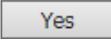


Figure 3.14.2-5 Link Radiopharma to Type of Scan/Therapy Dialog

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

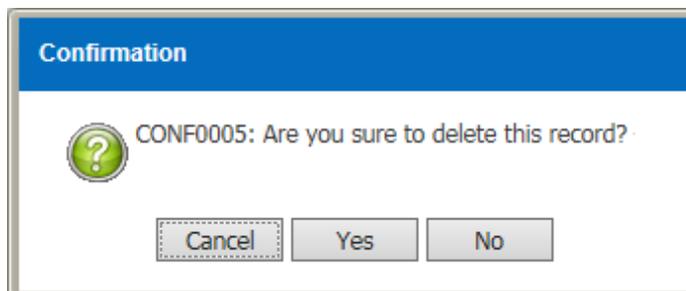


Figure 3.14.2-6 Confirmation Message

- 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 / 4 [1 - 10 / 32]

Type Of Scan / Therapy	Created Date	Updated Date	Status
hysterosonogram	06/10/2016 12:00:00 AM	06/10/2016 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:

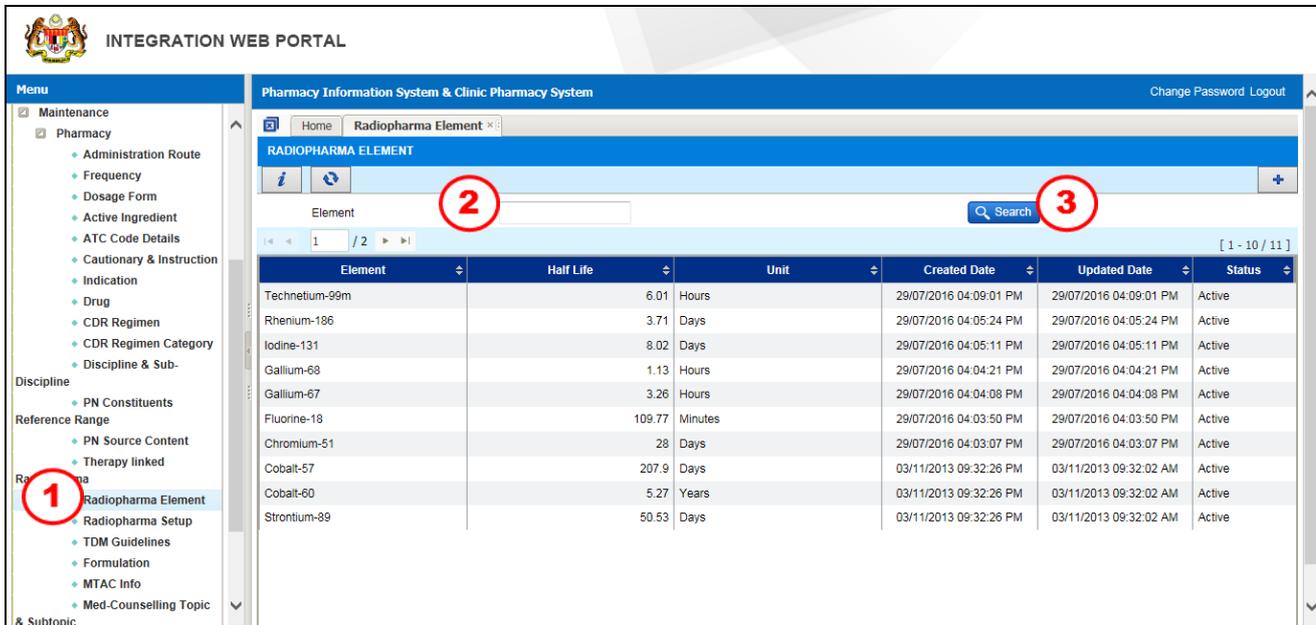


Figure 3.15.1-1 Radiopharma Element

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

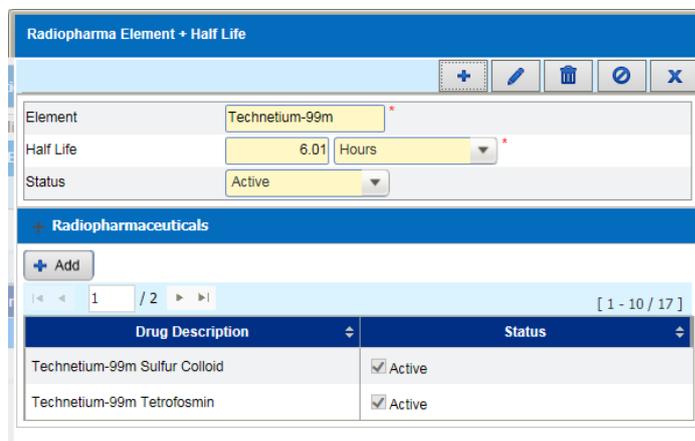


Figure 3.15.1-2 Radiopharma Element + Half Life

Note

Click on the button to close the screen

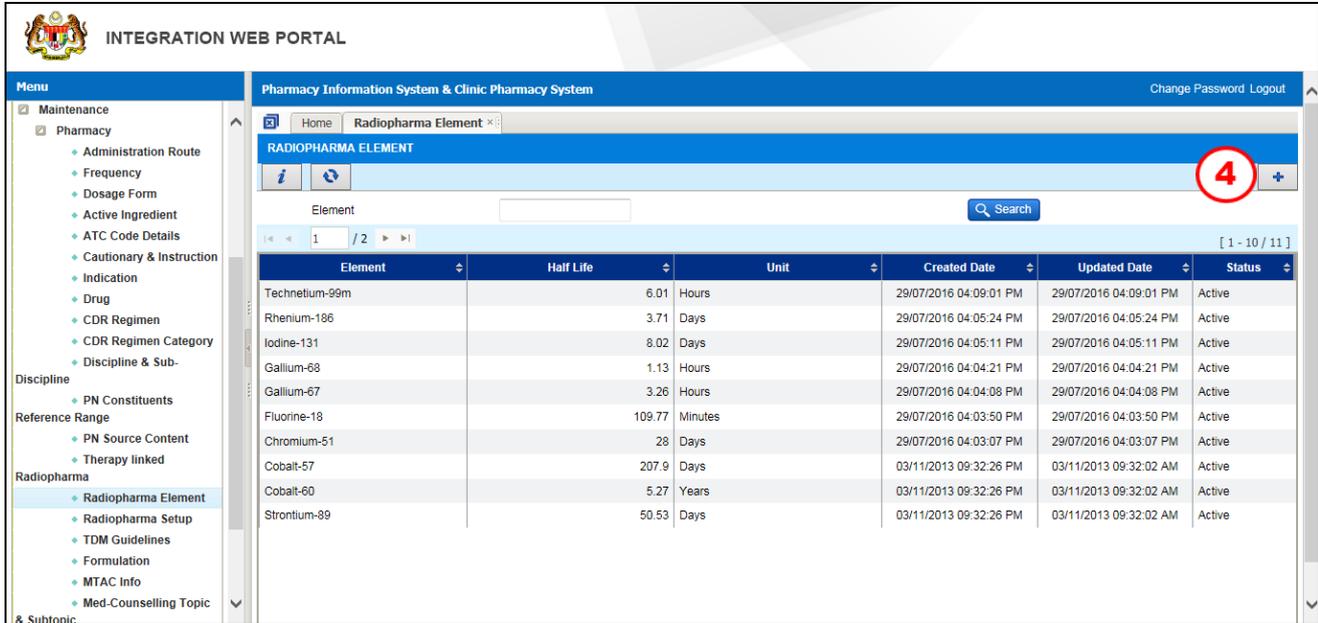


Figure 3.15.1-3 Radiopharma Element

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

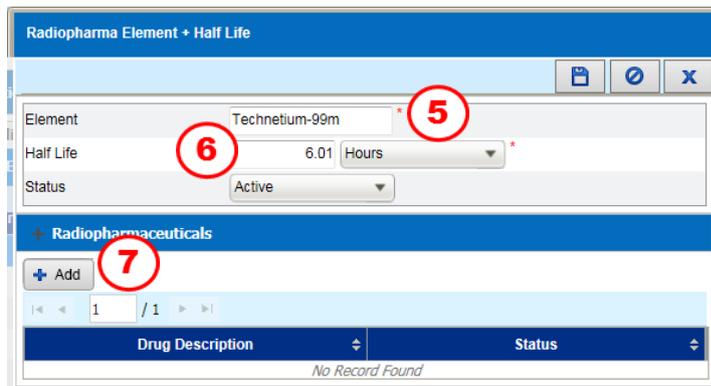


Figure 3.15.1-4 Radiopharma Element + Half Life

STEP 5

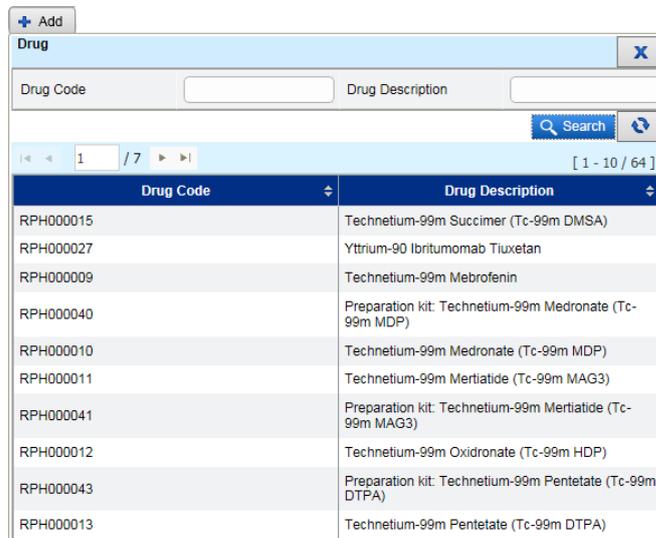
Enter **Element**

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

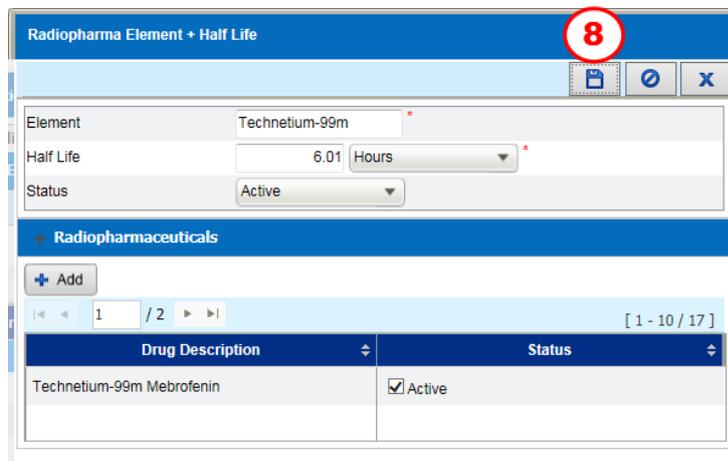


Drug Code	Drug Description
RPH000015	Technetium-99m Succimer (Tc-99m DMSA)
RPH000027	Yttrium-90 Ibritumomab Tiuxetan
RPH000009	Technetium-99m Mebrofenin
RPH000040	Preparation kit: Technetium-99m Medronate (Tc-99m MDP)
RPH000010	Technetium-99m Medronate (Tc-99m MDP)
RPH000011	Technetium-99m Mertiatide (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**



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

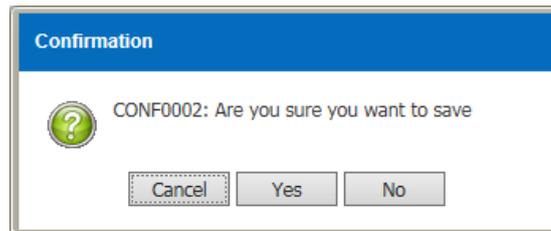


Figure 3.15.1-7 Confirmation Message

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

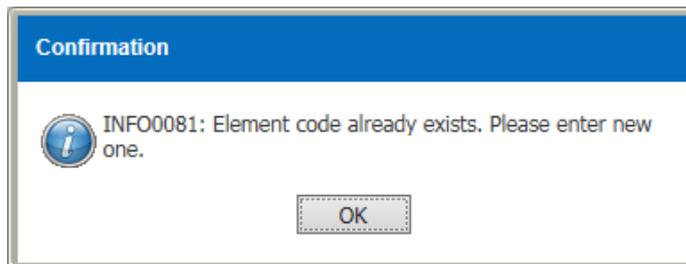


Figure 3.15.1-8 Information Message

3.15.2 Modify Radiopharma Element

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

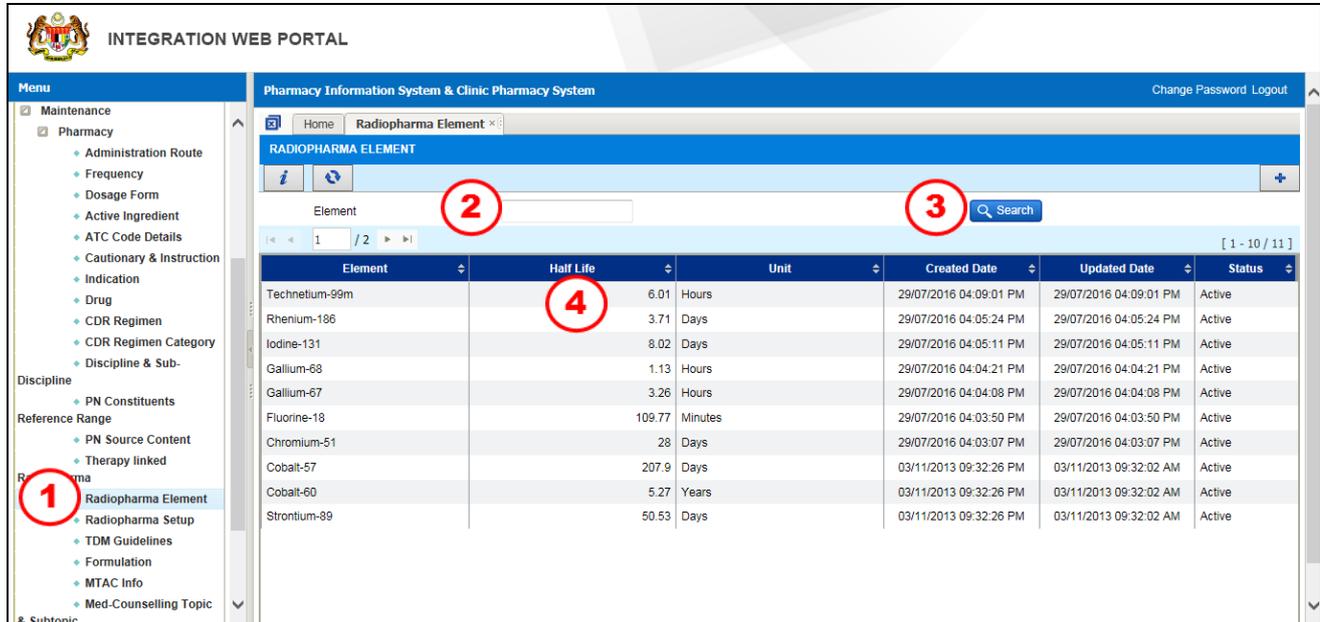


Figure 3.15.2-1 Radiopharma Element

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 Search button and system will display the related record

STEP 4

Click on the selected record

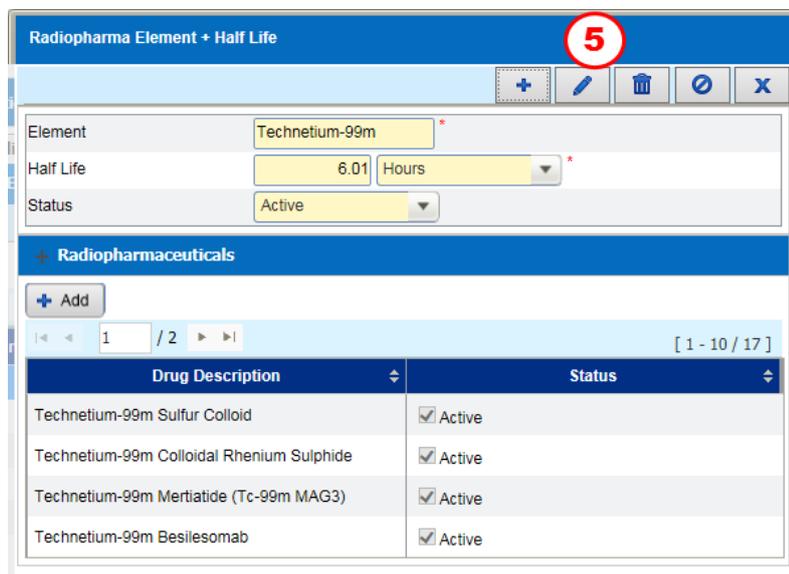
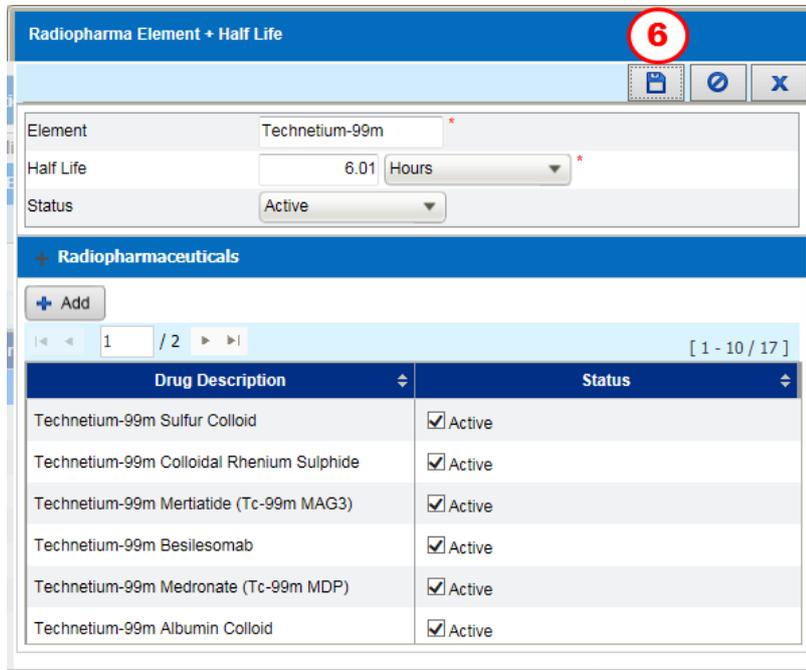


Figure 3.15.2-2 Radiopharma Element + Half Life

STEP 5

Click on the  button to edit the record



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

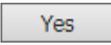
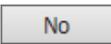
Note

- User is allow 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

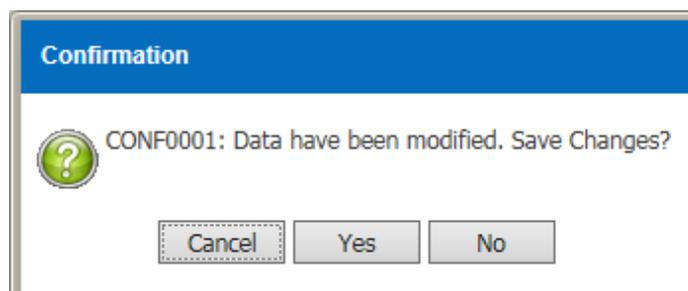
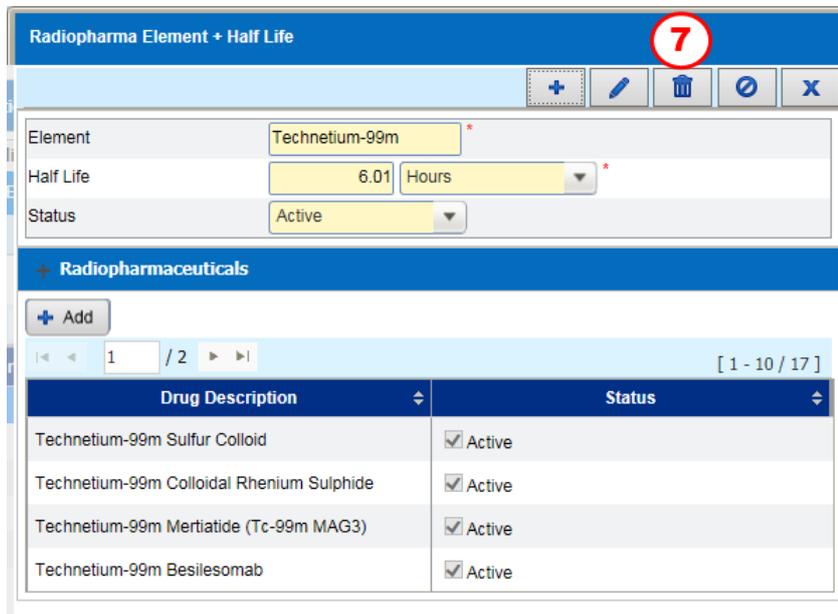


Figure 3.15.2-4 Confirmation Message



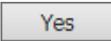
Drug Description	Status
Technetium-99m Sulfur Colloid	<input checked="" type="checkbox"/> Active
Technetium-99m Colloidal Rhenium Sulphide	<input checked="" type="checkbox"/> Active
Technetium-99m Mertiotide (Tc-99m MAG3)	<input checked="" type="checkbox"/> Active
Technetium-99m Besilesomab	<input checked=""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

Figure 3.15.2-5 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

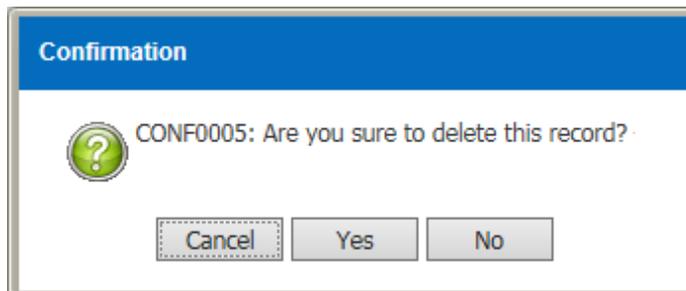


Figure 3.15.2-6 Confirmation Message

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

3.16 TDM Guidelines

3.16.1 Create New TDM Guideline

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

1 Maintenance
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 Range
PN Source Content
Therapy linked
Radiopharma
Radiopharma Element
Radiopharma Setup
TDM Guidelines
Formulation
MTAC Info
Med-Counselling Topic & Subtopic

Pharmacy Information System & Clinic Pharmacy System
Home TDM Guidelines ×

2 TDM GUIDELINES
TDM Drug [] Remarks []
3 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 Injection (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
Ciclosporin 100 mg/ml Drink Solution		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM
Ciclosporin 100mg Capsule Microemulsion		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM
Ciclosporin 25mg Capsule Microemulsion		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM

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 allow 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, Glycine 45 mg Tablet
Total Cost of Analysis(RM): 0.00
Time to reach steady state: NA
Remarks: []

Calculator: Digoxin, Aminoglycoside Pre, Carbamazepine, Phenobarbitone, Vancomycin Pre, Theophylline, Valproic Acid, Vancomycin Post. No Records Found!

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

Change Password Logout

Home TDM Guidelines

TDM GUIDELINES

TDM Drug: Remarks: +

Search

1 / 6 [1 - 10 / 57]

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 Injection (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
Ciclosporin 100 mg/ml Drink Solution		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM
Ciclosporin 100mg Capsule Microemulsion		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM
Ciclosporin 25mg Capsule Microemulsion		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM

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

TDM Guideline

TDM Drug: Acetylsalicylic Acid 100 mg, Glyc... + Total Cost of Analysis(RM): 0.00

Time to reach steady state: NA Remarks:

Calculator

- Digoxin
- Aminoglycoside Pre
- Carbamazepine
- Phenobarbitone
- Vancomycin Pre
- Theophylline
- Valproic Acid
- Vancomycin Post

No Records Found!

TDM Guideline Detail

1 / 1

Sampling Type	After/Before	Default time	Lab Order	Therapeutic Range	UOM	Updated On
No Records Found!						

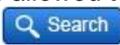
Figure 3.16.1-4 TDM Guideline

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	Ciclosporin 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**

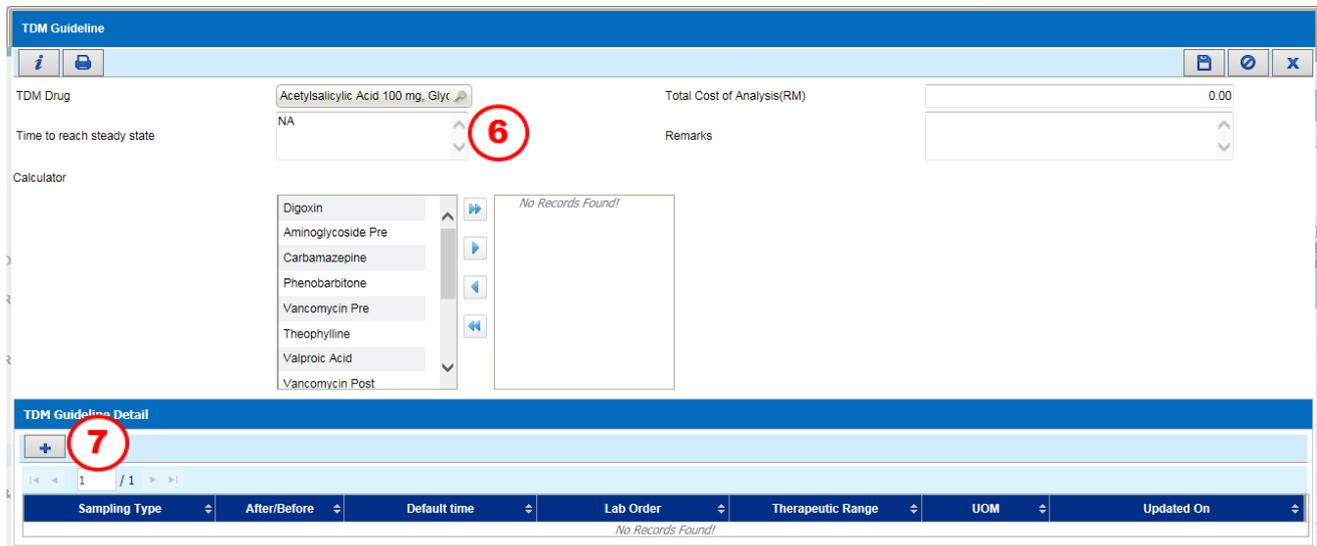


Figure 3.16.1-6 TDM Guideline

STEP 6

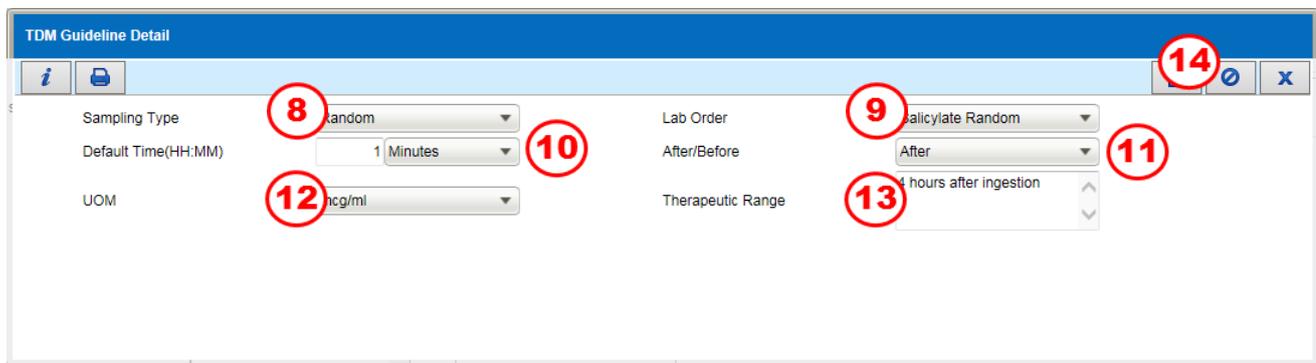
Enter **Time to reach steady state**

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 a web form titled "TDM Guideline Detail". It contains several fields with dropdown menus and a save button. Red circles with numbers 8 through 14 highlight specific elements: 8 points to the "Sampling Type" dropdown (set to "Random"); 9 points to the "Lab Order" dropdown (set to "Qualicylate Random"); 10 points to the "Default Time(HH:MM)" field (set to "1 Minutes"); 11 points to the "After/Before" dropdown (set to "After"); 12 points to the "UOM" dropdown (set to "mcg/ml"); 13 points to the "Therapeutic Range" field (set to "4 hours after ingestion"); and 14 points to the save button (represented by a floppy disk icon).

Figure 3.16.1-7 TDM Guideline Detail

STEP 8

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

- a) POST 1
- b) POST 2
- c) Post
- d) Pre
- e) 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

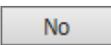
STEP 13

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

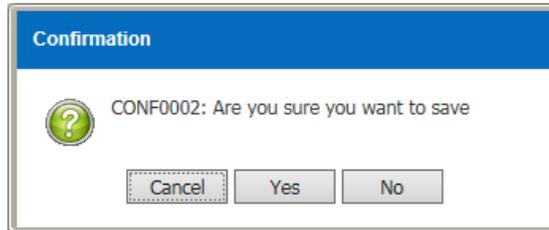


Figure 3.16.1-8 Confirmation Message

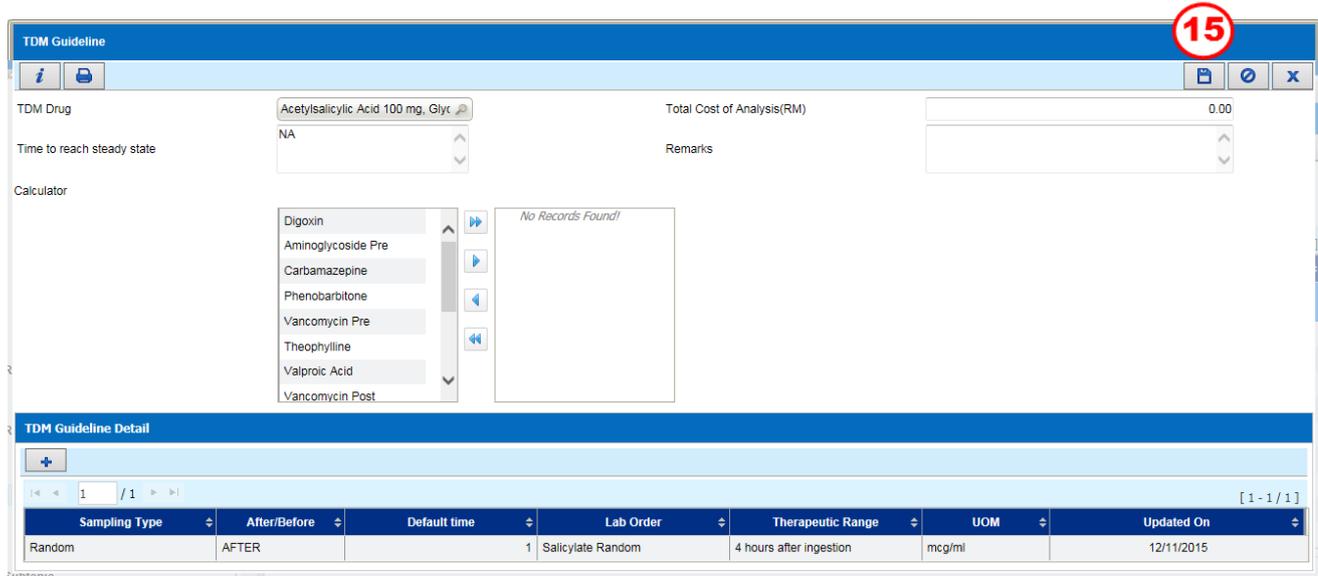


Figure 3.16.1-9 TDM Guideline

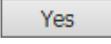
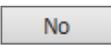
Note

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

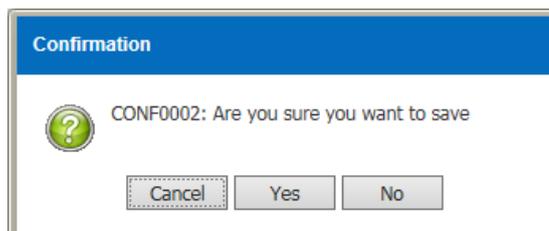


Figure 3.16.1-10 Confirmation Message

3.16.2 Modify TDM Guideline

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

1 Maintenance
2 Pharmacy
3 Search
4 TDM Drug, Remarks, Created Date, Updated Date

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 Injection (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
Ciclosporin 100 mg/ml Drink Solution		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM
Ciclosporin 100mg Capsule Microemulsion		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM
Ciclosporin 25mg Capsule Microemulsion		03/11/2013 04:24:31 PM	03/11/2013 04:24:02 AM

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

5 [+ | Edit | Delete | Refresh | Close]

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] | No Records Found!
 TDM Guideline Detail: [Table with columns: Sampling Type, After/Before, Default time, Lab Order, Therapeutic Range, UOM, Updated On]

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

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 3.16.2-3 TDM Guideline

Note

User is allow 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

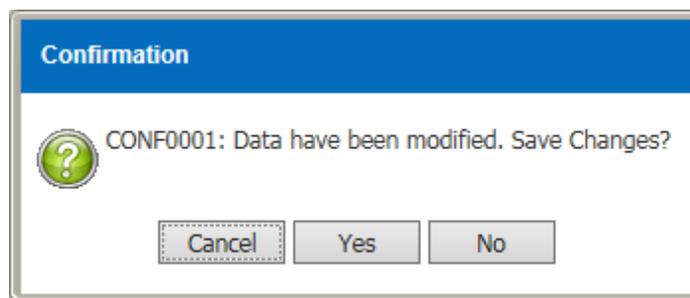
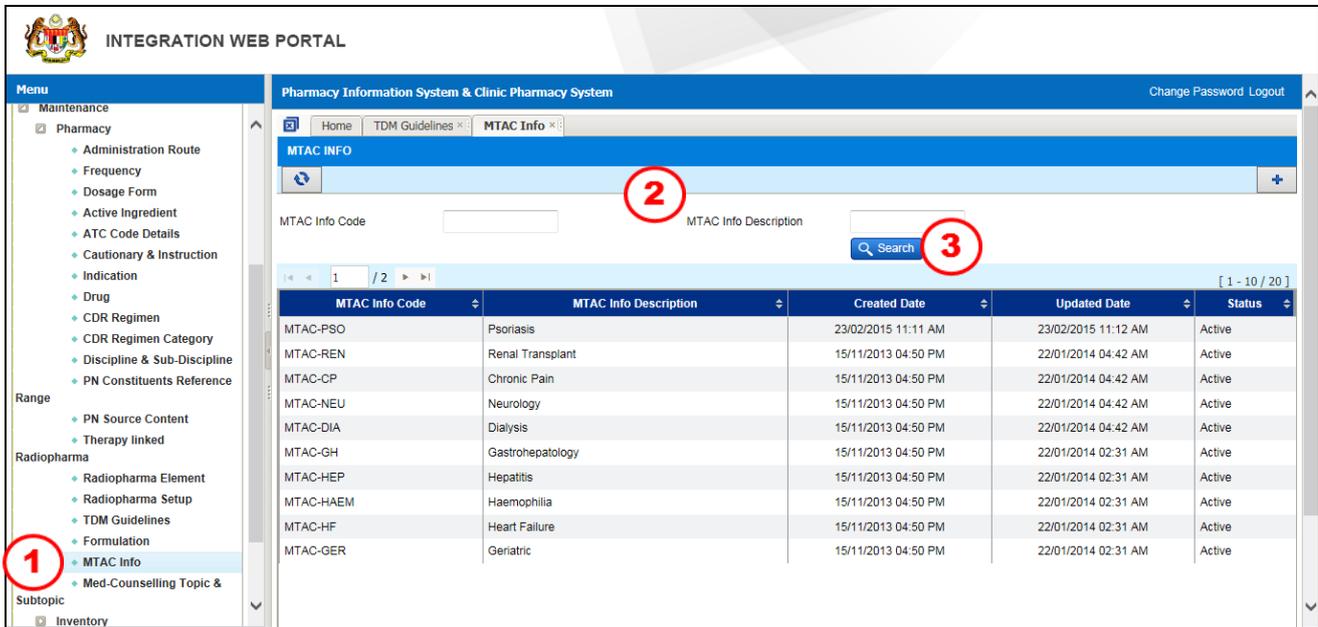


Figure 3.16.2-4 Confirmation Message

3.17 MTAC Info

3.17.1 Create new MTAC Info

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



MTAC Info Code	MTAC Info Description	Created Date	Updated Date	Status
MTAC-PSO	Psoriasis	23/02/2015 11:11 AM	23/02/2015 11:12 AM	Active
MTAC-REN	Renal Transplant	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-CP	Chronic Pain	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-NEU	Neurology	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-DIA	Dialysis	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-GH	Gastrohepatology	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-HEP	Hepatitis	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-HAEM	Haemophilia	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-HF	Heart Failure	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-GER	Geriatric	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active

Figure 3.17.1-1 MTAC Info

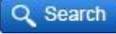
STEP 1

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

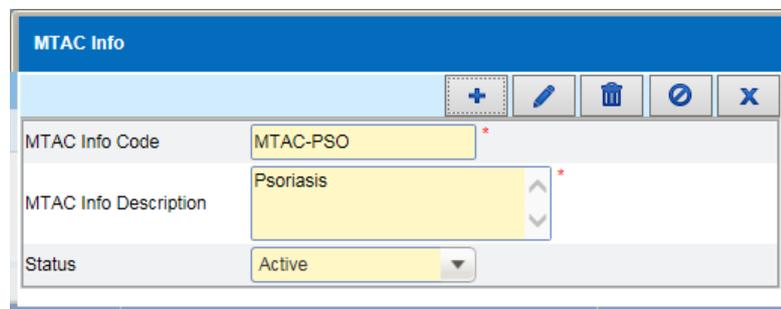


Figure 3.17.1-2 MTAC Info

Note

Click on the  button to close the screen

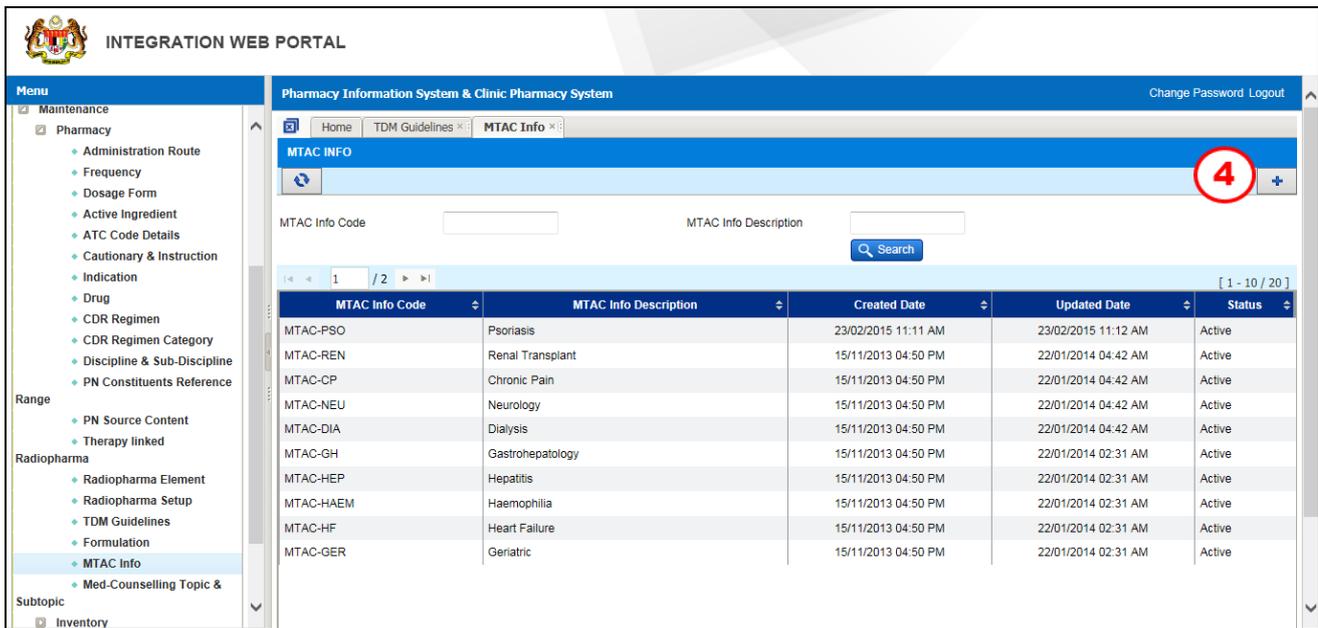


Figure 3.17.1-3 MTAC Info

STEP 4

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

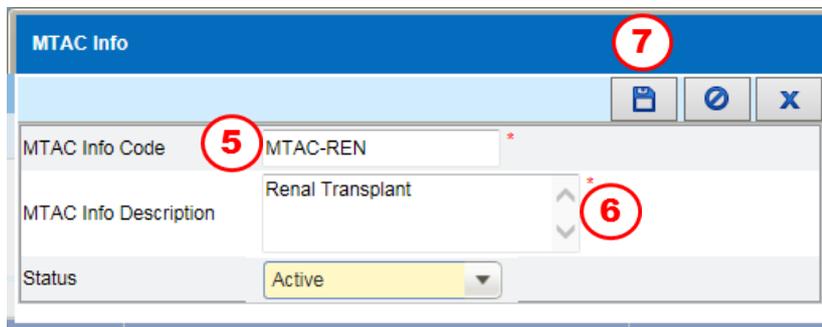


Figure 3.17.1-4 MTAC Info

STEP 5

Enter **MTAC Info Code**

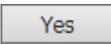
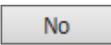
STEP 6

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

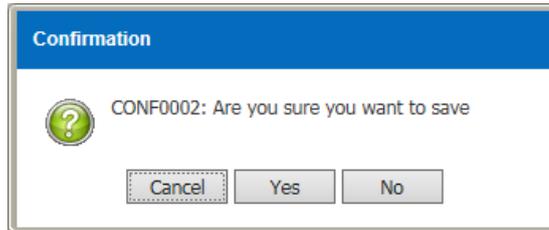


Figure 3.17.1-5 Confirmation Message

3.17.2 Modify MTAC Info

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

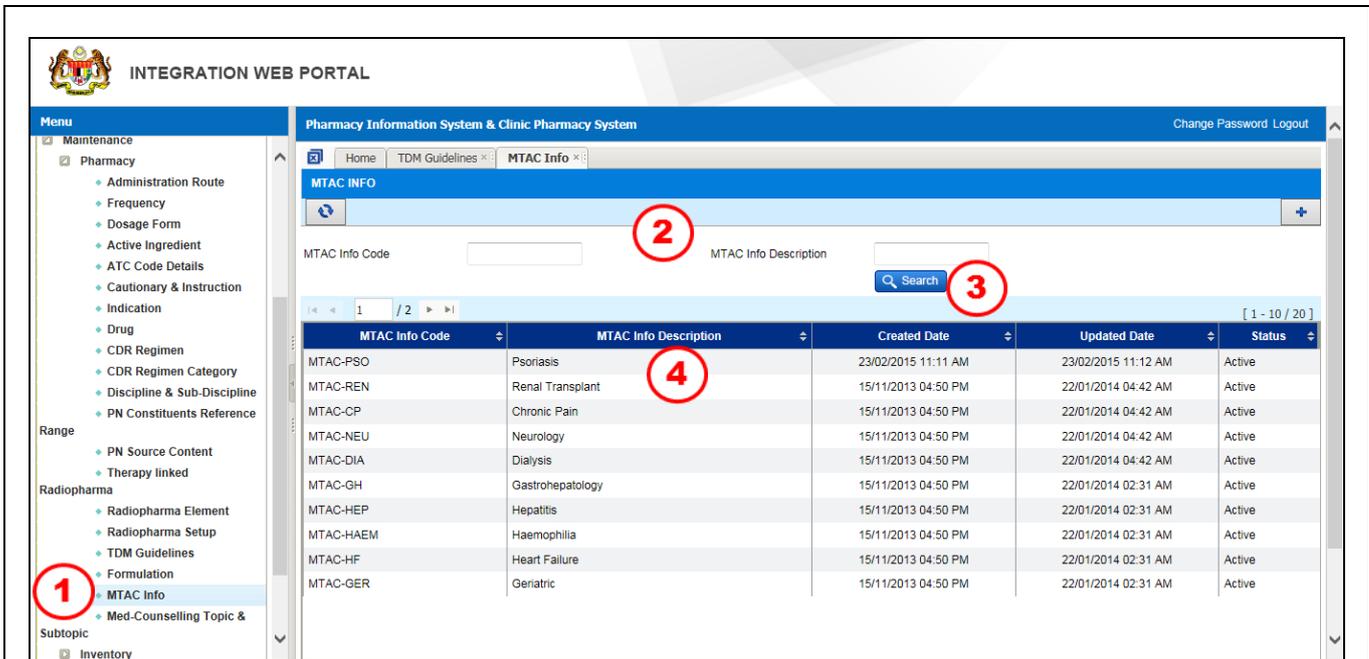


Figure 3.17.2-1 MTAC Info

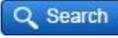
STEP 1

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

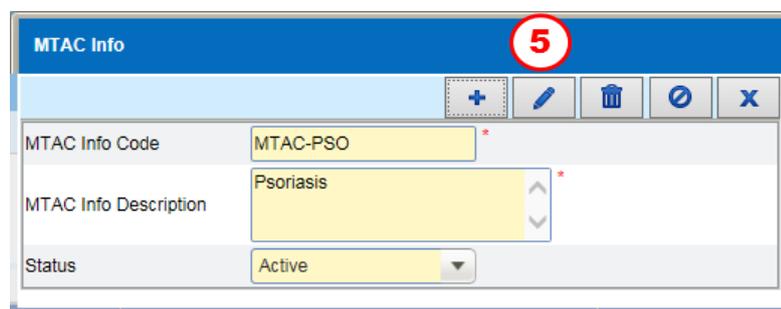
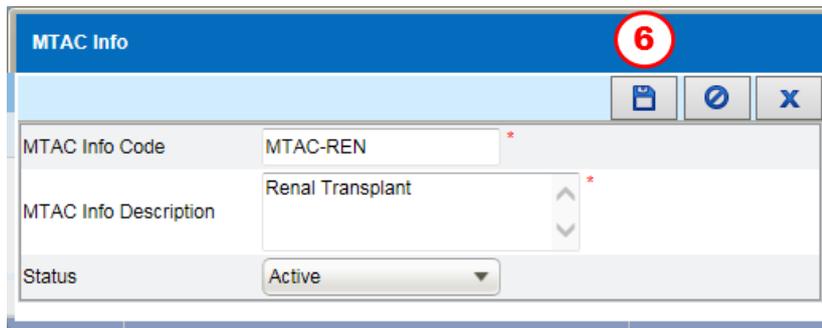


Figure 3.17.2-2 MTAC Info

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 allow to edit:

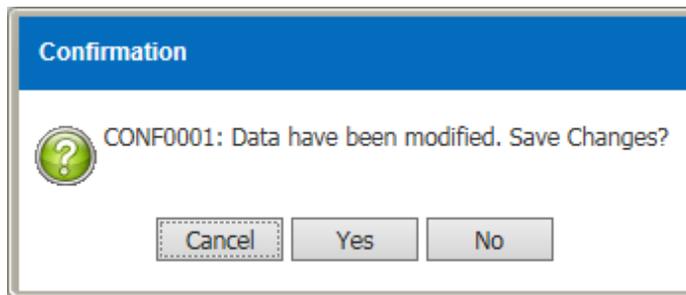
- **MTAC Info Code**
- **MTAC Info Description**
- **Status**

STEP 6

Click on the  button to save the edited record

Note

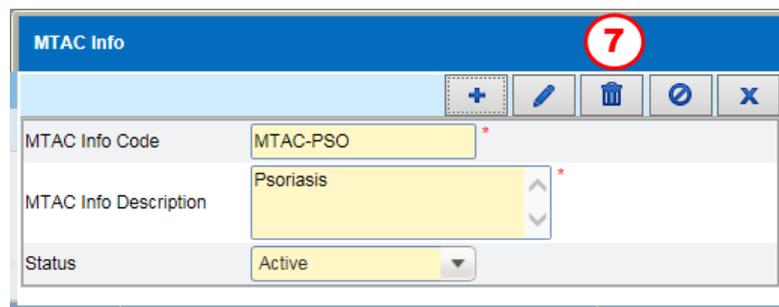
- System will display a Confirmation Message as Figure 3.17.2-4
- Click on the button to save the edited record
- Click on the or button to cancel the edited record



Confirmation

CONF0001: Data have been modified. Save Changes?

Figure 3.17.2-4 Confirmation Message



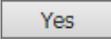
MTAC Info	
MTAC Info Code	MTAC-PSO *
MTAC Info Description	Psoriasis *
Status	Active

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

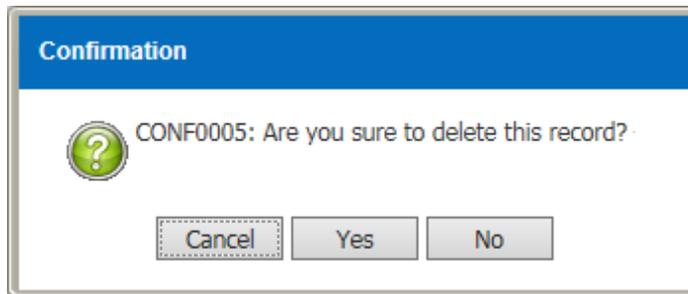
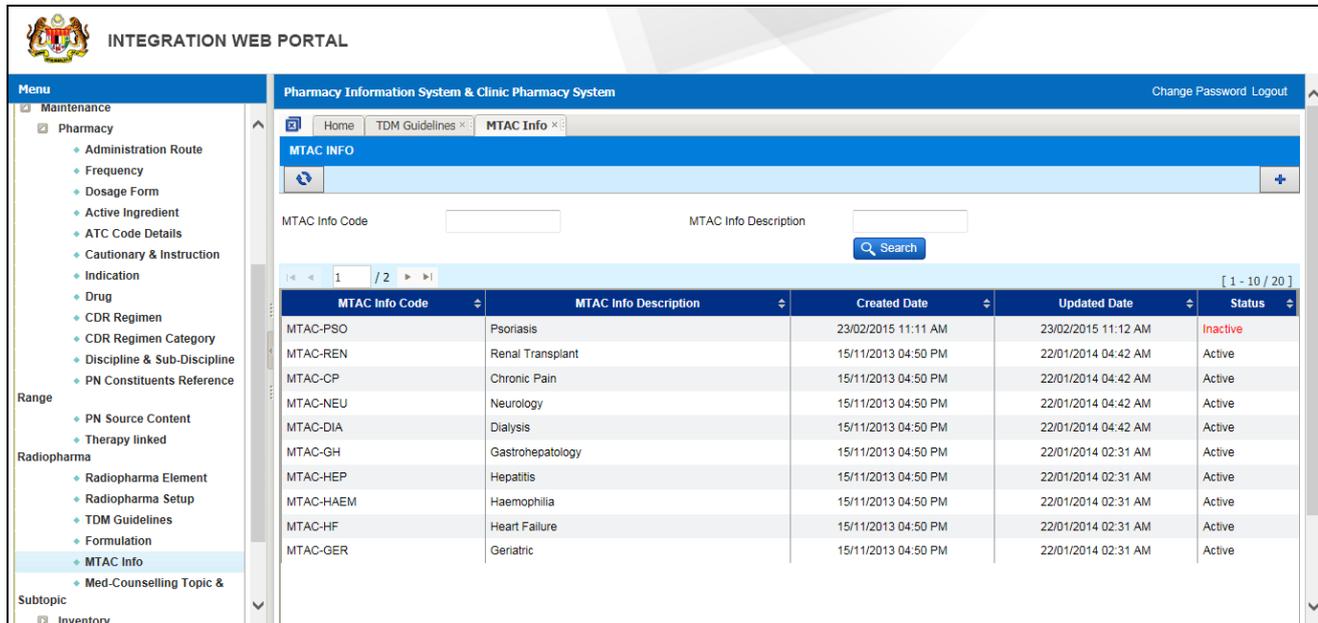


Figure 3.17.2-6 Confirmation Message

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



INTEGRATION WEB PORTAL

Pharmacy Information System & Clinic Pharmacy System

Change Password Logout

Home TDM Guidelines MTAC Info

MTAC INFO

MTAC Info Code MTAC Info Description Search

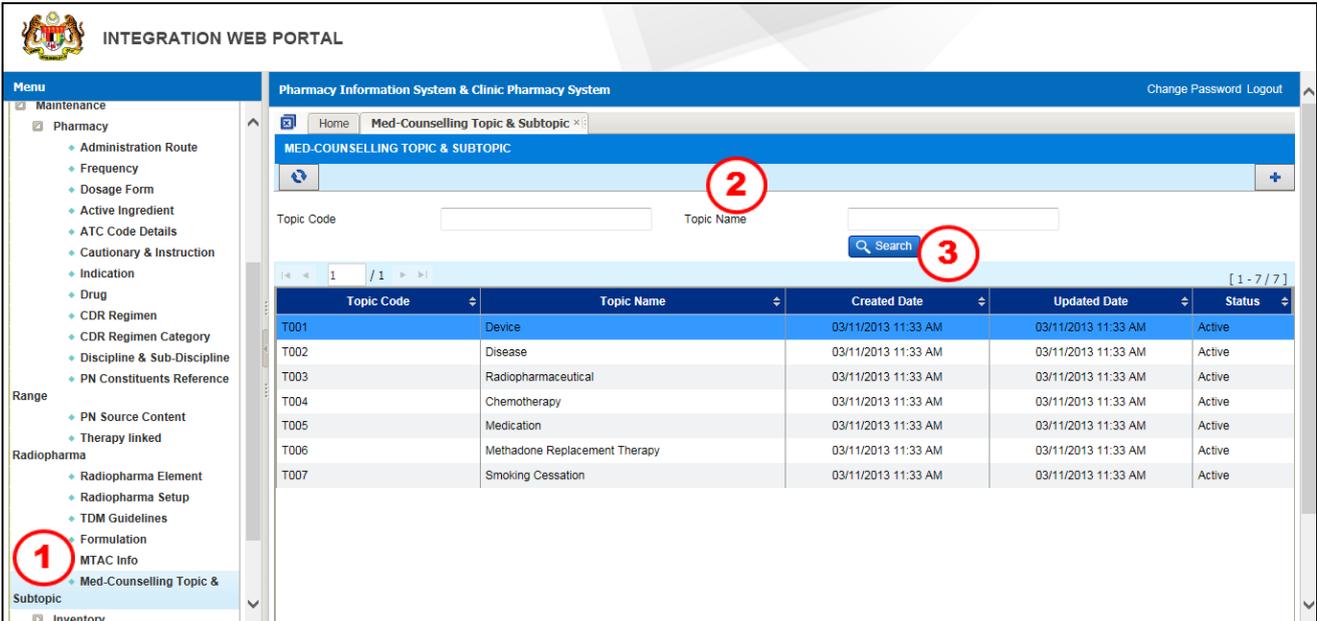
MTAC Info Code	MTAC Info Description	Created Date	Updated Date	Status
MTAC-PSO	Psoriasis	23/02/2015 11:11 AM	23/02/2015 11:12 AM	Inactive
MTAC-REN	Renal Transplant	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-CP	Chronic Pain	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-NEU	Neurology	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-DIA	Dialysis	15/11/2013 04:50 PM	22/01/2014 04:42 AM	Active
MTAC-GH	Gastrohepatology	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-HEP	Hepatitis	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-HAEM	Haemophilia	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-HF	Heart Failure	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active
MTAC-GER	Geriatric	15/11/2013 04:50 PM	22/01/2014 02:31 AM	Active

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:



The screenshot shows the 'Pharmacy Information System & Clinic Pharmacy System' interface. The left menu has 'Med-Counselling Topic & Subtopic' highlighted with a red circle '1'. The main area has a search bar with 'Topic Code' and 'Topic Name' fields, and a search button with a magnifying glass icon, highlighted with a red circle '3'. A table below shows existing records with columns for Topic Code, Topic Name, Created Date, Updated Date, and Status.

Topic Code	Topic Name	Created Date	Updated Date	Status
T001	Device	03/11/2013 11:33 AM	03/11/2013 11:33 AM	Active
T002	Disease	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	Methodone 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 allow to view the information by click on the related record and information will be displayed as Figure 3.18.1-2

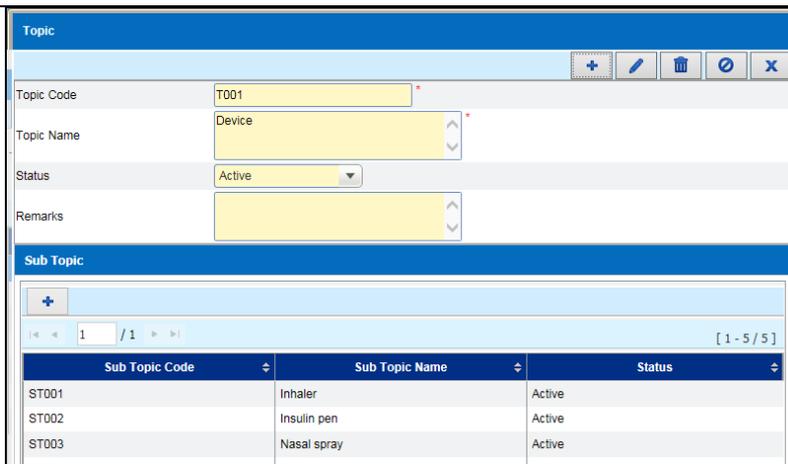
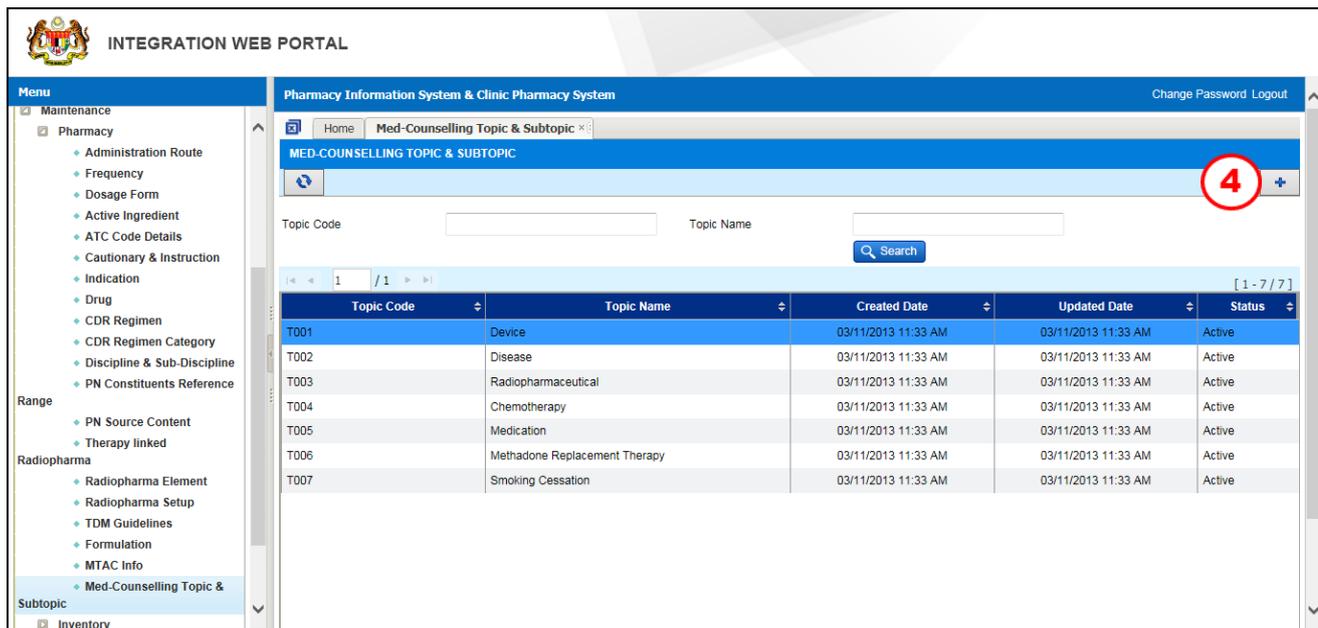


Figure 3.18.1-2 Topic

Note

Click on the  button to close the screen



Topic Code	Topic Name	Created Date	Updated Date	Status
T001	Device	03/11/2013 11:33 AM	03/11/2013 11:33 AM	Active
T002	Disease	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 3.18.1-3 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

7

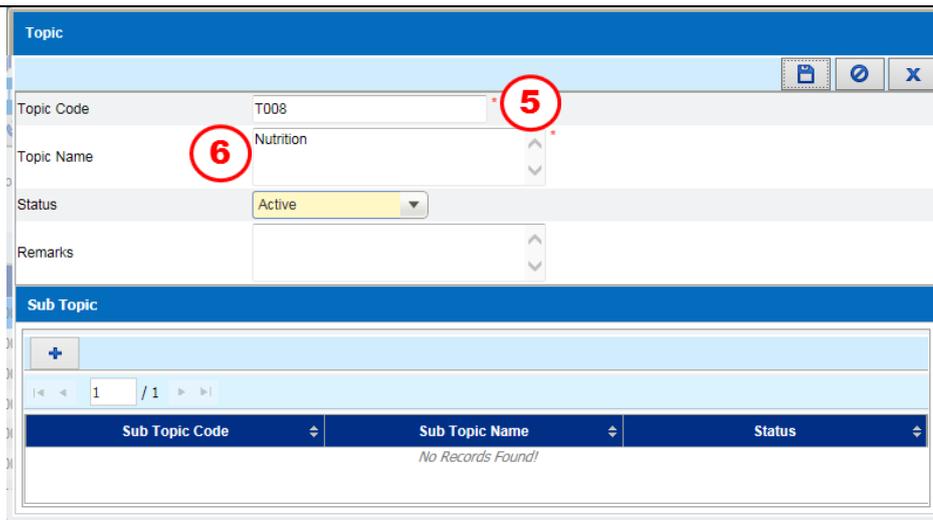


Figure 3.18.1-4 Topic

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

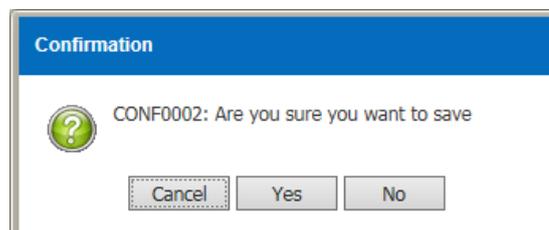


Figure 3.18.1-5 Confirmation Message

8

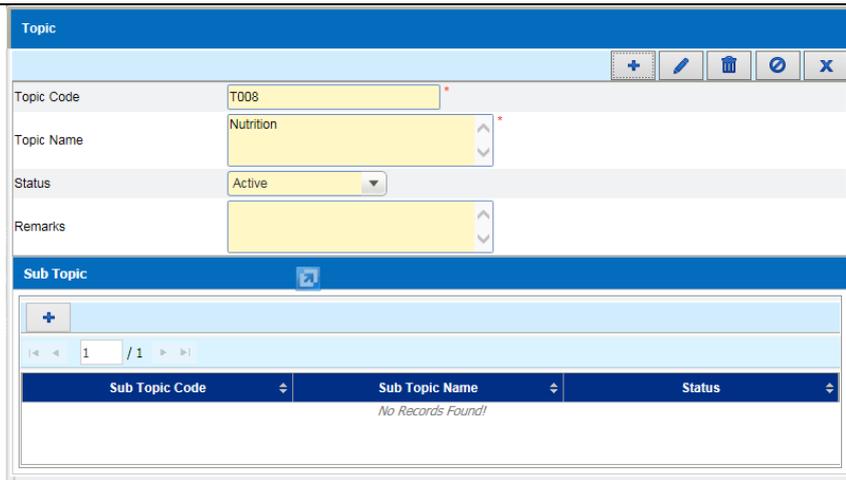


Figure 3.18.1-6 Topic

STEP 8

Click on the  button to edit the record

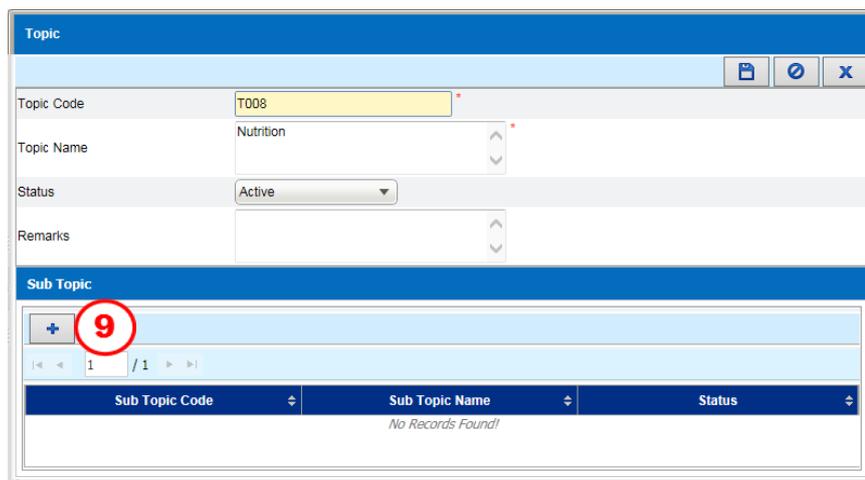


Figure 3.18.1-7 Topic

STEP 9

Click on the  button and Sub Topic screen will be displayed as figure 3.18.1-17

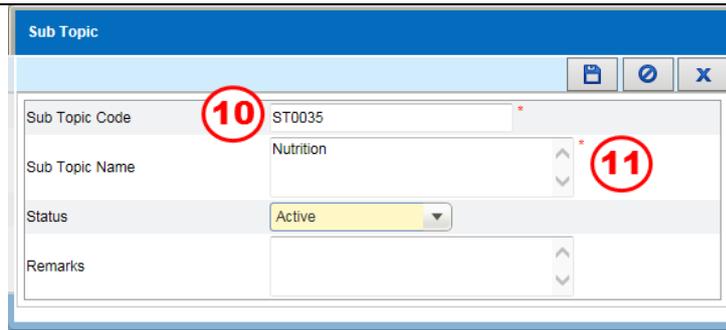


Figure 3.18.1-8 Sub Topic

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

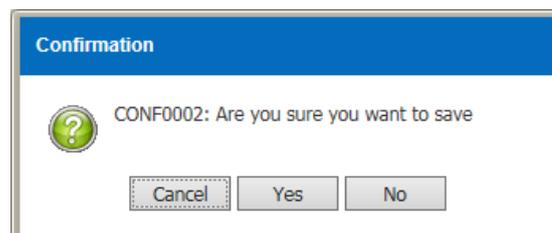


Figure 3.18.1-9 Confirmation Message

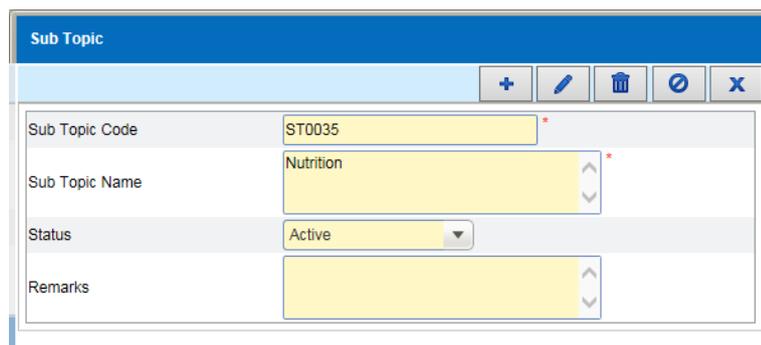


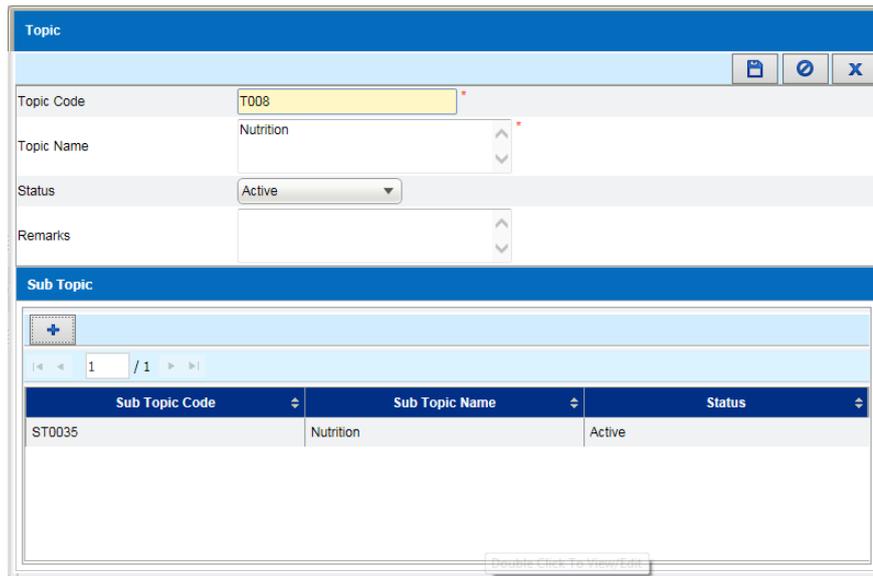
Figure 3.18.1-10 Sub Topic

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



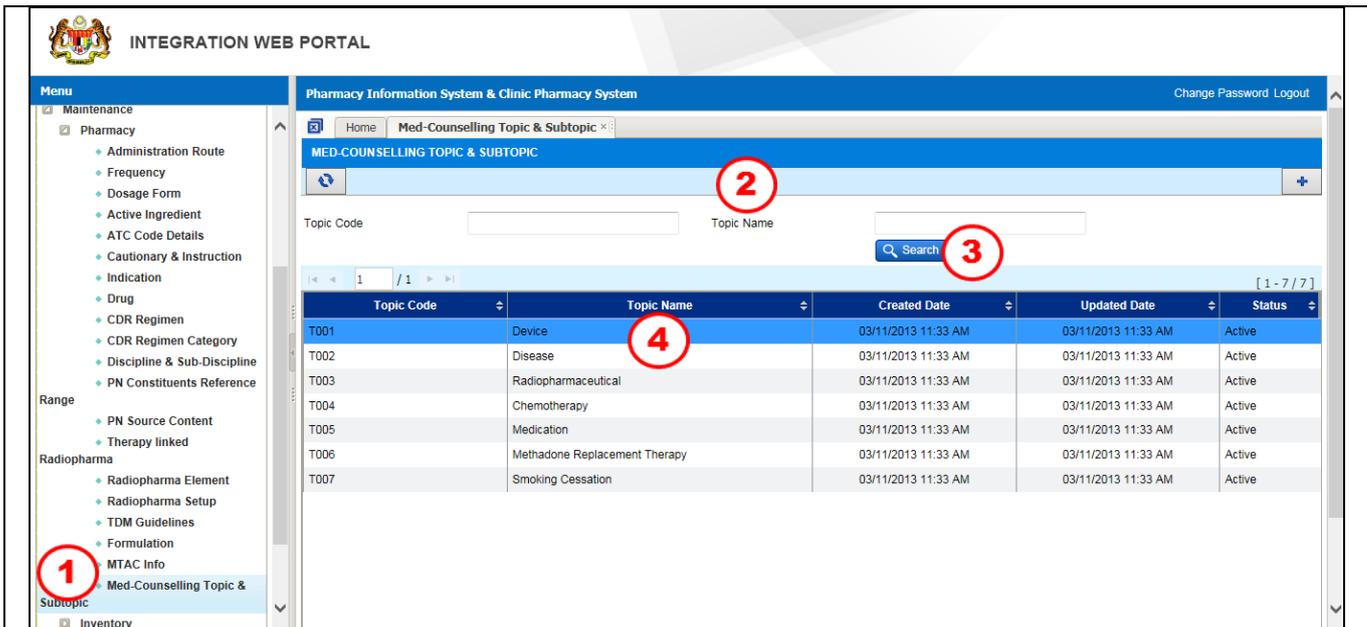
Topic		
Topic Code	T008	*
Topic Name	Nutrition	*
Status	Active	
Remarks		

Sub Topic		
		
1 / 1		
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 & Sub Topic, 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 Topic Name Search

Topic Code	Topic Name	Created Date	Updated Date	Status
T001	Device	03/11/2013 11:33 AM	03/11/2013 11:33 AM	Active
T002	Disease	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

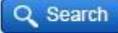
STEP 1

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**

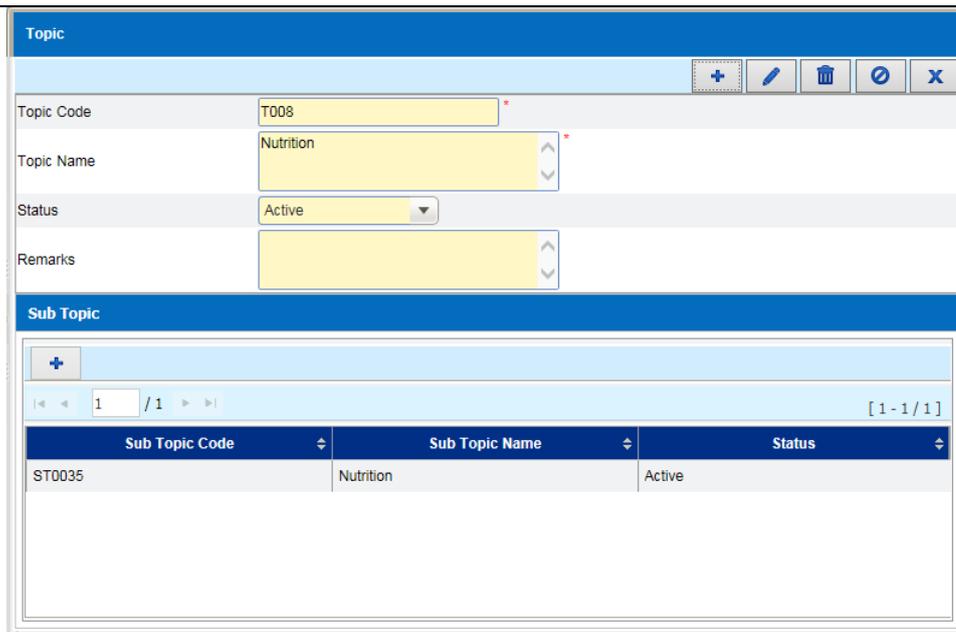
STEP 3

Click on the  button and system will display related record

STEP 4

Click on the selected record

5



Sub Topic		
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

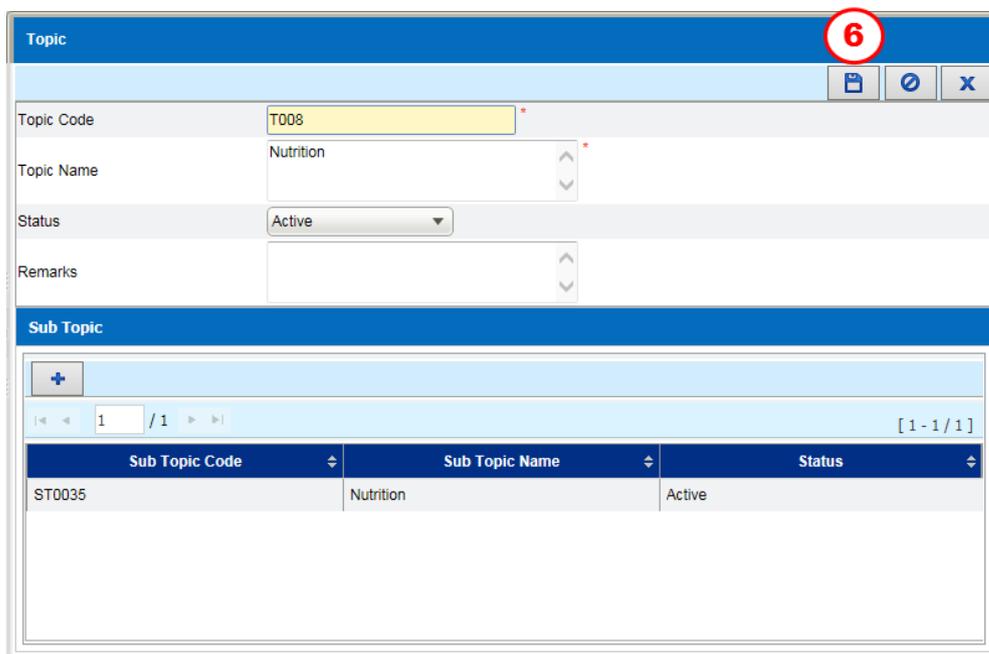


Figure 3.18.2-3 Topic

Note

User is allow 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

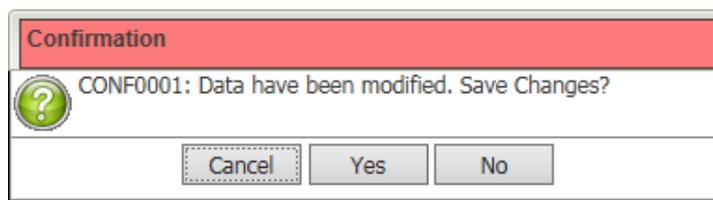


Figure 3.18.2-4 Confirmation Message

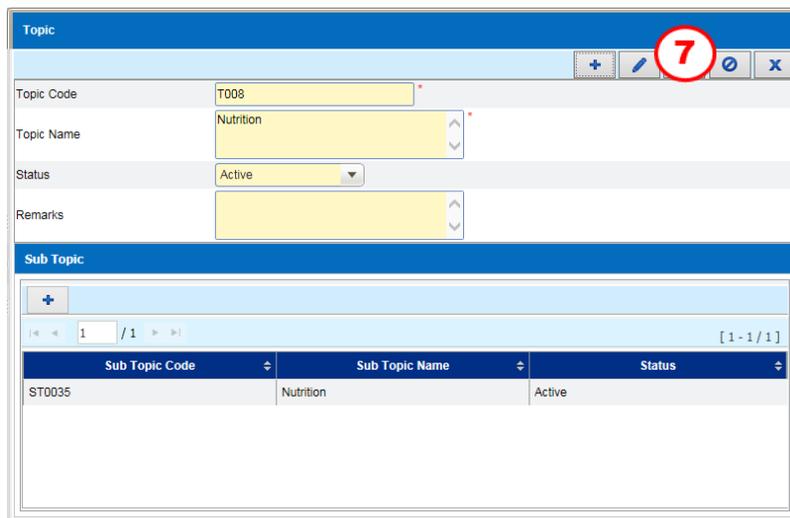


Figure 3.18.2-5 Topic

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

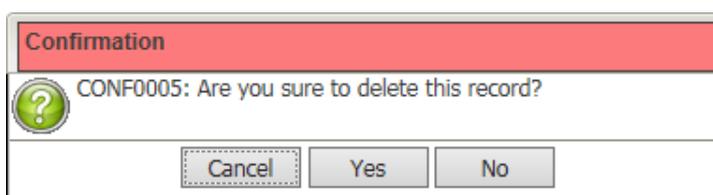
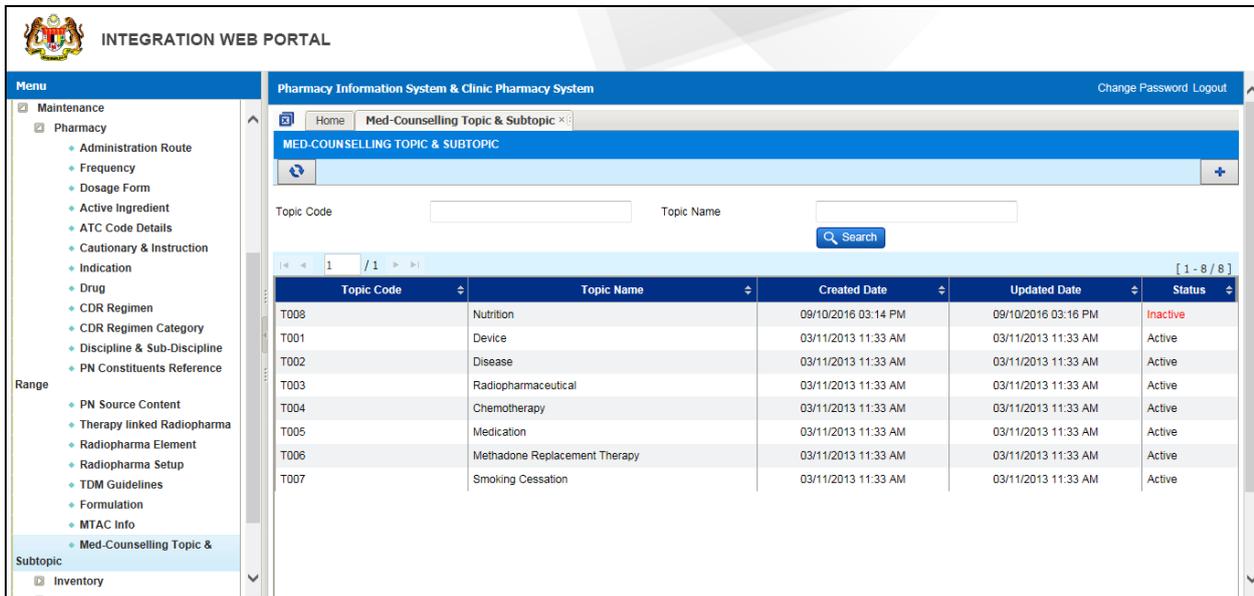


Figure 3.18.2-6 Confirmation Message

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



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Home Med-Counselling Topic & Subtopic

MED-COUNSELLING TOPIC & SUBTOPIC

Topic Code Topic Name

1 / 1 [1 - 8 / 8]

Topic Code	Topic Name	Created Date	Updated Date	Status
T008	Nutrition	09/10/2016 03:14 PM	09/10/2016 03:16 PM	Inactive
T001	Device	03/11/2013 11:33 AM	03/11/2013 11:33 AM	Active
T002	Disease	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>	Click Here
2	<i>Frequency Asked Question</i>	Click Here
3	<i>Drug Information</i>	Click Here
4	<i>Contract</i>	Click Here
5	<i>KPK Approval</i>	Click Here
6	<i>Maintenance – Pharmacy</i>	Click Here
7	<i>Maintenance – Inventory</i>	Click Here
8	<i>Maintenance – General</i>	Click Here
9	<i>Maintenance – HQ Security</i>	Click Here