



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

User Manual Maintenance-Pharmacy

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PhIS & CPS Project User Manual – Master Setup



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Application reference: PhIS & CPS v2.5.1

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1.0 Introduction

1.1 Overview of PhIS

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

There are twelve (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 Pharmacy Maintenance-Pharmacy 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 detail:

- Maintenance - Pharmacy

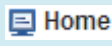
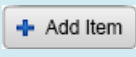
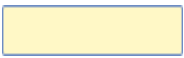
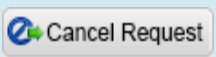
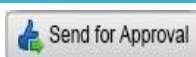
1.3 Organised Sections

These are the sections within this document:

- Section 1: Introduction
- Section 2: Application Standard Features
- Section 3: Maintenance - Pharmacy
- Section 4: Acronyms

2.0 Application Standard Features

2.1 PhIS Legend

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

3.0 Master Setup - Pharmacy

Overview

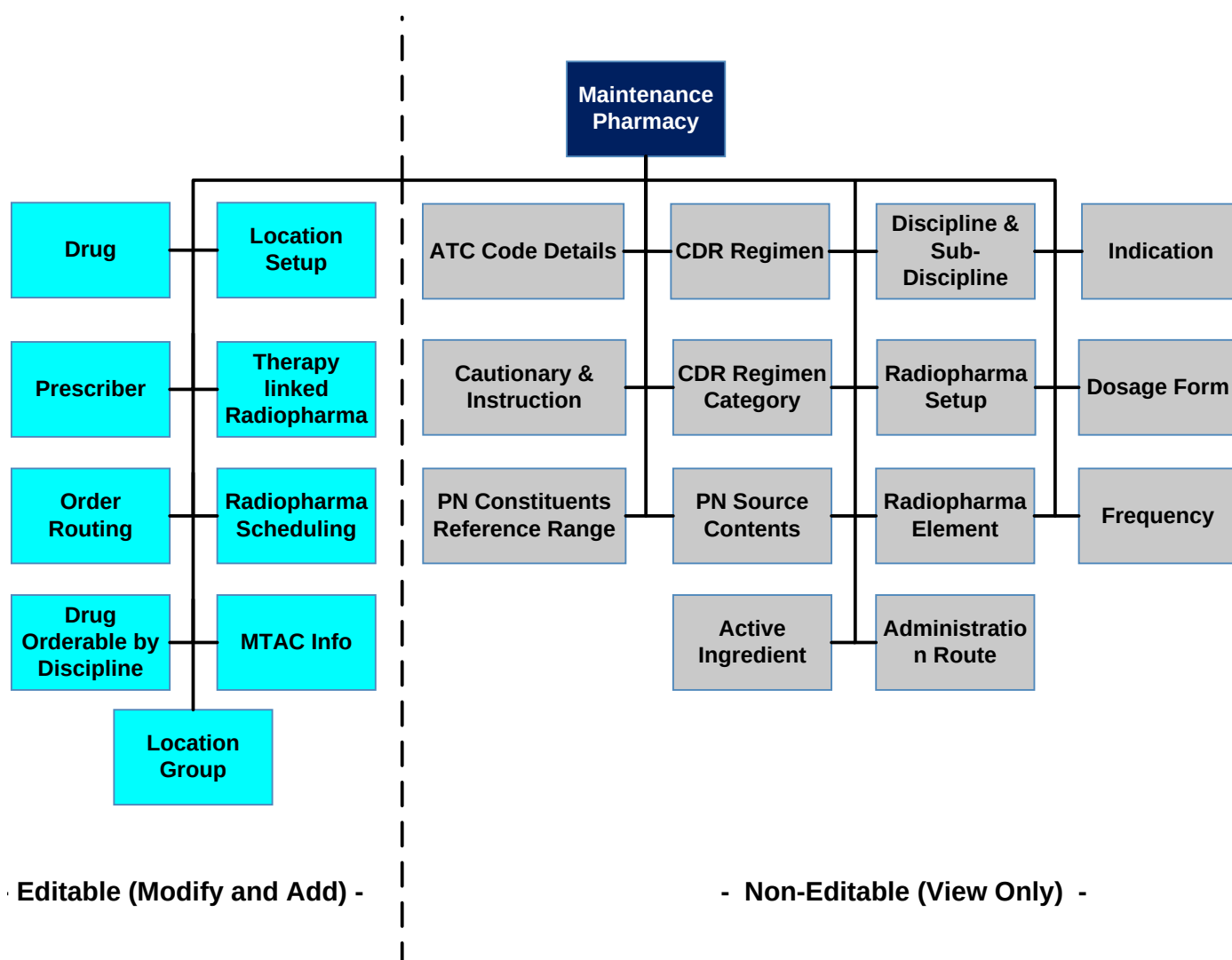
Application Master Setup describes the relationship between preliminary setup for each component; the details validation and data/ information that required to setup before system ready.

This application enables the facility to perform any modification to existing setting. Master setup generally controlled by respective personal from each site, some changes must undergo HQ approval.

User Group

This module is for appointed Data Admin, usually Head of Pharmacist, Head of Unit Pharmacy Main Store and Sub-Store or authorised personnel to view, create or modify this record in accordance with MOH or Facility Policy. System will provide a screen for user to define access level for every PhIS user based on their user role.

Functional Diagram



Functional Description

Maintenance - Pharmacy module comprises of twenty-three (23) main sub modules:

MENU	DESCRIPTION
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. Facility User able to add and edit a few information in the screen.
Location Setup	Location is where the drug is “Prescribe” and “Dispense” that defined by facility. These locations used for patient registration, prescribing, dispensing and others functions. This function also indicates requester unit (Storeroom) that placed in a location. User able to change serving time of a frequency based on wards medication serving time. Facility User able to add and edit a few information in the screen.
Prescriber	A person who give directions, either orally or in writing, for the preparation and administration of a drug to be used in the treatment of any disease. Record prescriber details are stored in the system to allow record credential on prescription and other functions. Facility user able to edit and save record.
Therapy linked Radiopharma	Radiopharmaceuticals are used in the field of nuclear medicine as tracers in the diagnosis and treatment of many diseases. The screen consists of Type of Scan/Therapy and its Radiopharmaceuticals Facility user able to activate or inactive which combination is applicable in own facility. Selected set of scan/therapy`s type and radiopharmaceuticals will be displayed in radiopharma ordering and Radiopharmaceuticals appointment screens. Editable by Facility User. Facility user able to activate or inactive which combination is applicable in own facility. Facility user also able to set minimum and maximum dosage of the radiopharmaceuticals to be ordered by prescriber.
Order Routing	This setup is to manage dispensing counter that will prepare the prescription from prescribing location. User will be able control this settings according to location of where the patient registered. Facility User able to add and edit a few information in the screen.
Radiopharma Scheduling	The screen allows recording schedule for the selected type of scan/therapy based on facility. System will crosscheck the appointment date in Radiopharma Rx with radiopharma schedule & calendar in store Maintenance to provide alert if selected date falls on non-scheduled date for the type of scan/therapy or Public Holiday. Facility user can edit and select the day of appointment for the type of scan/therapy and determine the quota of appointment for each selected day. Editable by Facility User.
Drug Orderable by Discipline	Certain drugs are allowed in only in some departments. This can be set up here. Facility User able to add and edit a few information in the screen.
MTAC Info	The screen show list of all type MTAC in KKM and enable facility user to set availability of

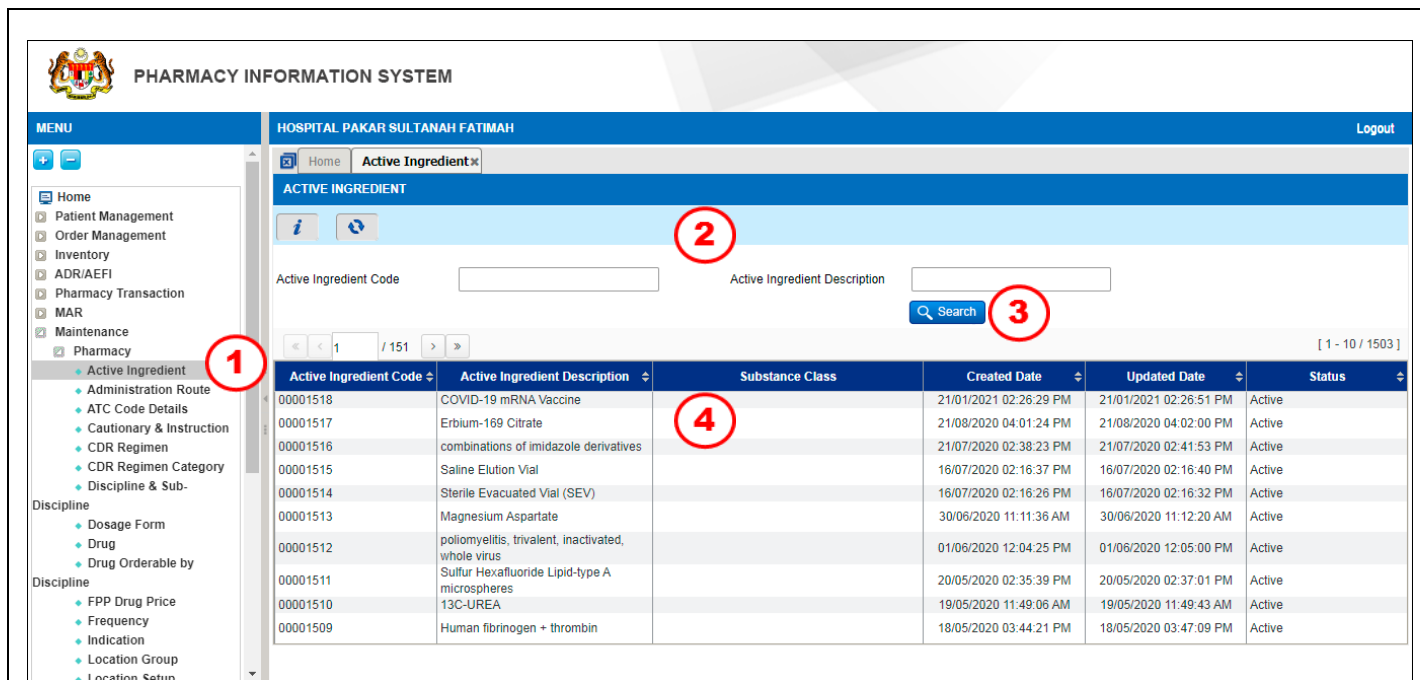
	the MTAC in the facility. Editable by Facility User.
Location Group	This screen enable user to group a few locations for user profile's location setting. Facility User able to add and edit a few information in the screen.
Active Ingredient	Active ingredients are components in a drug that provide some pharmaceutical value, which act as carriers to make the drug easier for the body to process. Active Ingredient information will be used by Drug Master and Order Management in PhIS system. Not editable by Facility User.
Administration Route	Allows user to view administration route records. The administration Route information will be used in Drug Master, Order Management, Inpatient Pharmacy and Outpatient Pharmacy. Not editable by Facility User.
Frequency	Frequency is number of times that drug administrated within a given period or per day. Drug is ordered and dispensed based on the frequency set by HQ. Users are able to view existing frequency master record details made by HQ in system. Not editable by Facility User.
Dosage Form	The dosage form records will be used for Inventory, Drug Master, Order Management, Inpatient Pharmacy and Outpatient Pharmacy in PhIS system. Not editable by Facility User.
ATC 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 are able to view existing record for ATC code details done by HQ in system. Not editable by Facility User.
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. This information used for Drug master, label printing purposes and etc. Not editable by Facility User.
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 have the information on a treatment of a disease, This information Not editable by Facility User.
CDR Regimen	Cytotoxic Drug Reconstitution (CDR) an anticancer drug which acts by killing or preventing the cell division. Programs of treatment (sets of drugs) that regulates aspects of one's lifestyle for a hygienic or therapeutic purpose. Facility User able to view applied 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. CDR Regimen Master is setup by HQ. Not editable by Facility User.
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 based on specialty hematology, oncology, pediatric or others. Facility user able to view category and regimen type in system. Not editable by Facility User.
Discipline & Sub-	Discipline and sub-discipline are facility department responsible for the administration of

Discipline	functions and activities pertaining to the delivery of medication treatment. CDR Regimen Master is setup by HQ. Not editable by Facility User.
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 patient condition. PN Constituents screen able facility user to view PN Constituents range group by age. Complete details on range of Macronutrients, Electrolytes, Trace element, Vitamins and Glutamine have been set by HQ for PN QALCULATOR function in pHIS. This enable user to calculate volume of compounded PN for patient's abdomen based on patient age and weight. Not editable by Facility User.
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's 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 from HQ. Facility user able to selects drug name and PN Type and view PN source content. Not editable by Facility User.
Radiopharma Element	Screen will be displayed Radiopharma ingredient or compound. It's also indicate the time of a drug takes for half of it to be eliminated from the bloodstream Not editable by Facility User.
Radiopharma Setup	Prior to the administration of any radiopharmaceutical therapy procedure, the user shall assign and date an order that specifies the patient, the radiopharmaceutical, the dosage, and the route of administration. Facility user able to view Radiopharma equipment needed for Radiopharma by HQ. Not editable by Facility User.
TDM Guidelines	Therapeutic drug monitoring (TDM) is specializes in the measurement of medication concentrations in blood. Its focus is on drugs with a narrow therapeutic range, i.e. drugs that can easily be under- or overdosed. TDM aimed at improving patient care by individually adjusting the dose of drugs. Facility user able to view in system variables that influence the interpretation of drug concentration data: time, route and dose of drug given, time of blood sampling, handling and storage conditions, precision and accuracy of the analytical method and clinical status of the patient. Not editable by Facility User.

3.1 Active Ingredient

Active Ingredient is the medium by which a drug ,fluid or substance that make a drug. All Active Ingredient are generally listed in this page is used to complete information for a drug at Drug Master screen. Facility user able to view existing record for Active ingredient done by HQ. User is not allowed to add information.

To view existing record



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HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Active Ingredient

ACTIVE INGREDIENT

Active Ingredient Code: Active Ingredient Description:

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Active Ingredient Code	Active Ingredient Description	Substance Class	Created Date	Updated Date	Status
00001518	COVID-19 mRNA Vaccine		21/01/2021 02:26:29 PM	21/01/2021 02:26:51 PM	Active
00001517	Erbium-169 Citrate		21/08/2020 04:01:24 PM	21/08/2020 04:02:00 PM	Active
00001516	combinations of imidazole derivatives		21/07/2020 02:38:23 PM	21/07/2020 02:41:53 PM	Active
00001515	Saline Elution Vial		16/07/2020 02:16:37 PM	16/07/2020 02:16:40 PM	Active
00001514	Sterile Evacuated Vial (SEV)		16/07/2020 02:16:26 PM	16/07/2020 02:16:32 PM	Active
00001513	Magnesium Aspartate		30/06/2020 11:11:36 AM	30/06/2020 11:12:20 AM	Active
00001512	poliomyelitis, trivalent, inactivated, whole virus		01/06/2020 12:04:25 PM	01/06/2020 12:05:00 PM	Active
00001511	Sulfur Hexafluoride Lipid-type A microspheres		20/05/2020 02:35:39 PM	20/05/2020 02:37:01 PM	Active
00001510	13C-UREA		19/05/2020 11:49:06 AM	19/05/2020 11:49:43 AM	Active
00001509	Human fibrinogen + thrombin		18/05/2020 03:44:21 PM	18/05/2020 03:47:09 PM	Active

Figure 3.1-1 Active Ingredient

Facility user able to view existing records for the administration route made by HQ.

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Active Ingredient'

STEP 2

Search existing record based on below search criteria:

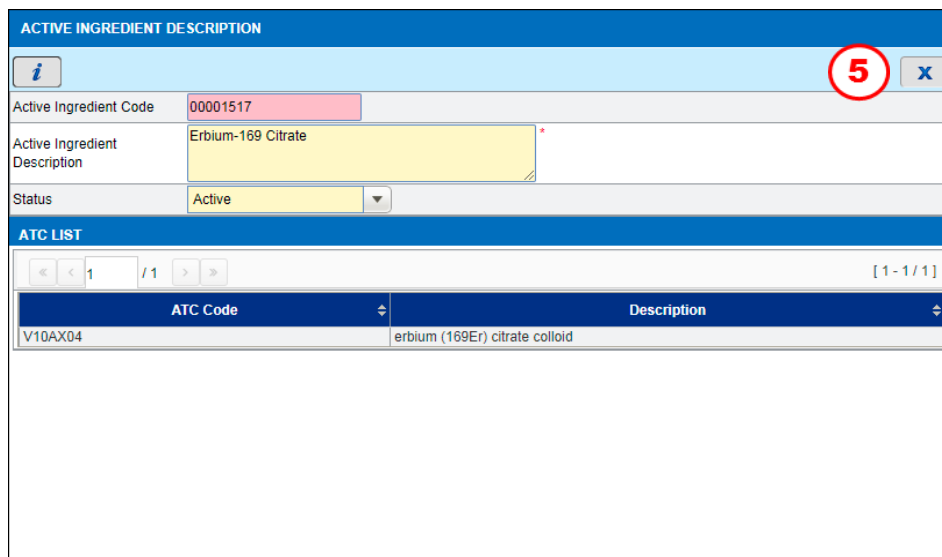
- Active Ingredient Code
- Active Ingredient Description

STEP 3

Click on button to search Active Ingredient Description records.

STEP 4

Double click on selected Active Ingredient Description to view the record.



ACTIVE INGREDIENT DESCRIPTION

i **5** **X**

Active Ingredient Code: 00001517

Active Ingredient Description: Erbium-169 Citrate

Status: Active

ATC LIST

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

ATC Code	Description
V10AX04	erbium (169Er) citrate colloid

Figure 3.1-2 Active Ingredient Description

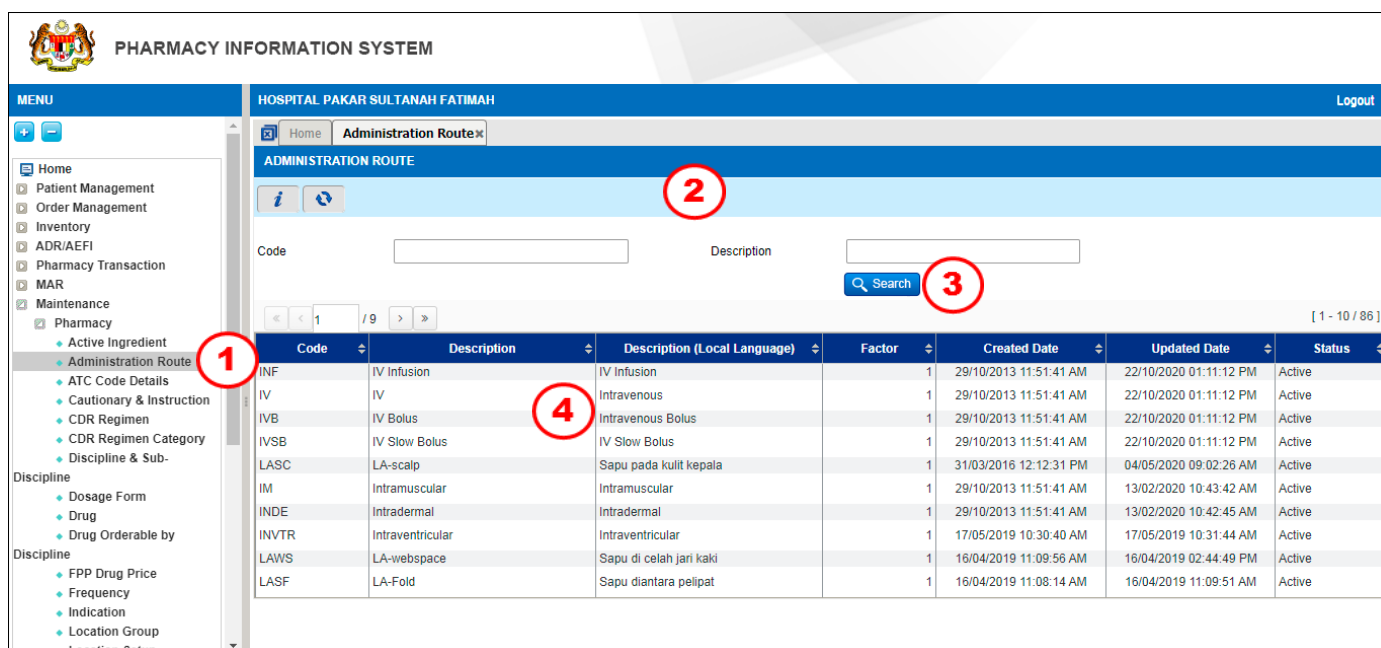
STEP 5

Click on the  button and to close record

3.2 Administration Route

Administration route is the path by which a drug, fluid or other substance is taken into the body. Routes of administration are generally classified by facility at which the substance is applied. Facility user able to view existing record for administration route done by HQ. User is not allowed to add duplicate information.

To view existing record



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Administration Route

ADMINISTRATION ROUTE

Code Description Search

1 / 9

Code	Description	Description (Local Language)	Factor	Created Date	Updated Date	Status
INF	IV Infusion	IV Infusion	1	29/10/2013 11:51:41 AM	22/10/2020 01:11:12 PM	Active
IV	IV	Intravenous	1	29/10/2013 11:51:41 AM	22/10/2020 01:11:12 PM	Active
IVB	IV Bolus	Intravenous Bolus	1	29/10/2013 11:51:41 AM	22/10/2020 01:11:12 PM	Active
IVSB	IV Slow Bolus	IV Slow Bolus	1	29/10/2013 11:51:41 AM	22/10/2020 01:11:12 PM	Active
LASC	LA-scalp	Sapu pada kulit kepala	1	31/03/2016 12:12:31 PM	04/05/2020 09:02:26 AM	Active
IM	Intramuscular	Intramuscular	1	29/10/2013 11:51:41 AM	13/02/2020 10:43:42 AM	Active
INDE	Intradermal	Intradermal	1	29/10/2013 11:51:41 AM	13/02/2020 10:42:45 AM	Active
INVTR	Intraventricular	Intraventricular	1	17/05/2019 10:30:40 AM	17/05/2019 10:31:44 AM	Active
LAWS	LA-webspace	Sapu di celah jari kaki	1	16/04/2019 11:09:56 AM	16/04/2019 02:44:49 PM	Active
LASF	LA-Fold	Sapu diantara pempit	1	16/04/2019 11:08:14 AM	16/04/2019 11:09:51 AM	Active

Figure 3.2-1 Administration Route Listing Page

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Administration Route'

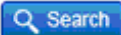
STEP 2

Search existing record based on below search criteria:

Code – Code created from respective HQ

Description – Route or method of drug to be administer.

STEP 3

Click on  button to search the Administration Route

Note

- Search result of administration route list will be displayed:

- Code
- Description
- Description (Local Language)
- Created Date
- Updated Date
- Status

STEP 4

Click On Existing Record

ADMINISTRATION ROUTE			
i 5 x			
Code	IM *	Method (Local Language)	Suntik
Status	Active ▼	Method Description (Local Language)	Intramuscular (IM)
Description	Intramuscular *	Method	Inject
Administration Factor	1	Method Description	Intramuscular (IM)
Description (Local Language)	Intramuscular *		

Figure 3.2-2 Administration Route

Note

Administration Route will be displayed:

- Code – A words given for transmitting messages requiring secrecy or brevity for administration route. This code creates by HQ.
- Status – Will be displayed condition:
 - * Active – Will be defaulted to 'Active' after setup administration route by HQ. If the status is 'Active' the specific administration route will be displayed to accustomed in system.
 - * Inactive – Able to change status from the 'Active' to 'Inactive' by HQ. Status will be 'Inactive' the specific administration route will not be displayed to accustom in system.
- Description – Statement or an account describing about the specific administration route. This field shall be defined in English
- Description (Local Language) - statement or an account describing about the specific administration route. This field shall be defined in local language (e.g. Malay)

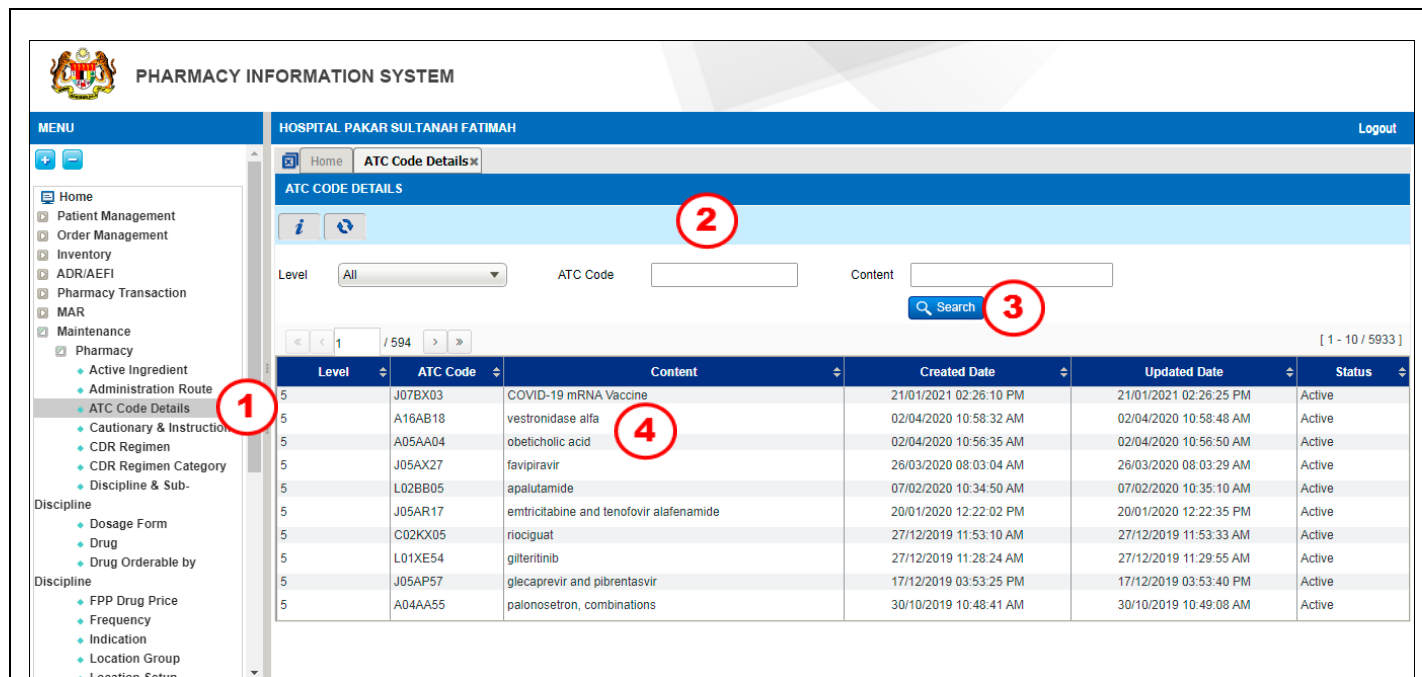
STEP 5

Click and close  button and to close record.

3.3 ATC Code Details

ATC Code details is list of drug that group by ATC Code level 1,2,3,4 and 5. Facility user able to view existing records for the ATC Code Details that have been done by HQ.

To View Existing Record



PHARMACY INFORMATION SYSTEM

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Logout

Home ATC Code Details

ATC CODE DETAILS

Level: All ATC Code: Content: Search

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Level	ATC Code	Content	Created Date	Updated Date	Status
5	J07BX03	COVID-19 mRNA Vaccine	21/01/2021 02:26:10 PM	21/01/2021 02:26:25 PM	Active
5	A16AB18	vestronidase alfa	02/04/2020 10:58:32 AM	02/04/2020 10:58:48 AM	Active
5	A05AA04	obeticolic acid	02/04/2020 10:56:35 AM	02/04/2020 10:56:50 AM	Active
5	J05AX27	favipiravir	26/03/2020 08:03:04 AM	26/03/2020 08:03:29 AM	Active
5	L02BB05	apalutamide	07/02/2020 10:34:50 AM	07/02/2020 10:35:10 AM	Active
5	J05AR17	emtricitabine and tenofovir alafenamide	20/01/2020 12:22:02 PM	20/01/2020 12:22:35 PM	Active
5	C02KX05	riociguat	27/12/2019 11:53:10 AM	27/12/2019 11:53:33 AM	Active
5	L01XE54	gilteritinib	27/12/2019 11:28:24 AM	27/12/2019 11:29:55 AM	Active
5	J05AP57	glecaprevir and pibrentasvir	17/12/2019 03:53:25 PM	17/12/2019 03:53:40 PM	Active
5	A04AA55	palonosetron, combinations	30/10/2019 10:48:41 AM	30/10/2019 10:49:08 AM	Active

Figure 3.3-1 ATC Code

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'ATC Code Details

STEP 2

Search existing record based on below search criteria:

- Level
- ATC Code
- Content

STEP 3

Click on  button to search the ATC Code Details records

STEP 4

Double click on selected ATC Code Details to view the record

ATC DETAIL	
5 X	
ATC Code	J07BX03 *
Content	COVID-19 mRNA Vaccine *
Level	Level 5 ▼ *
Status	Active ▼

Figure 3.3-2 ATC Detail

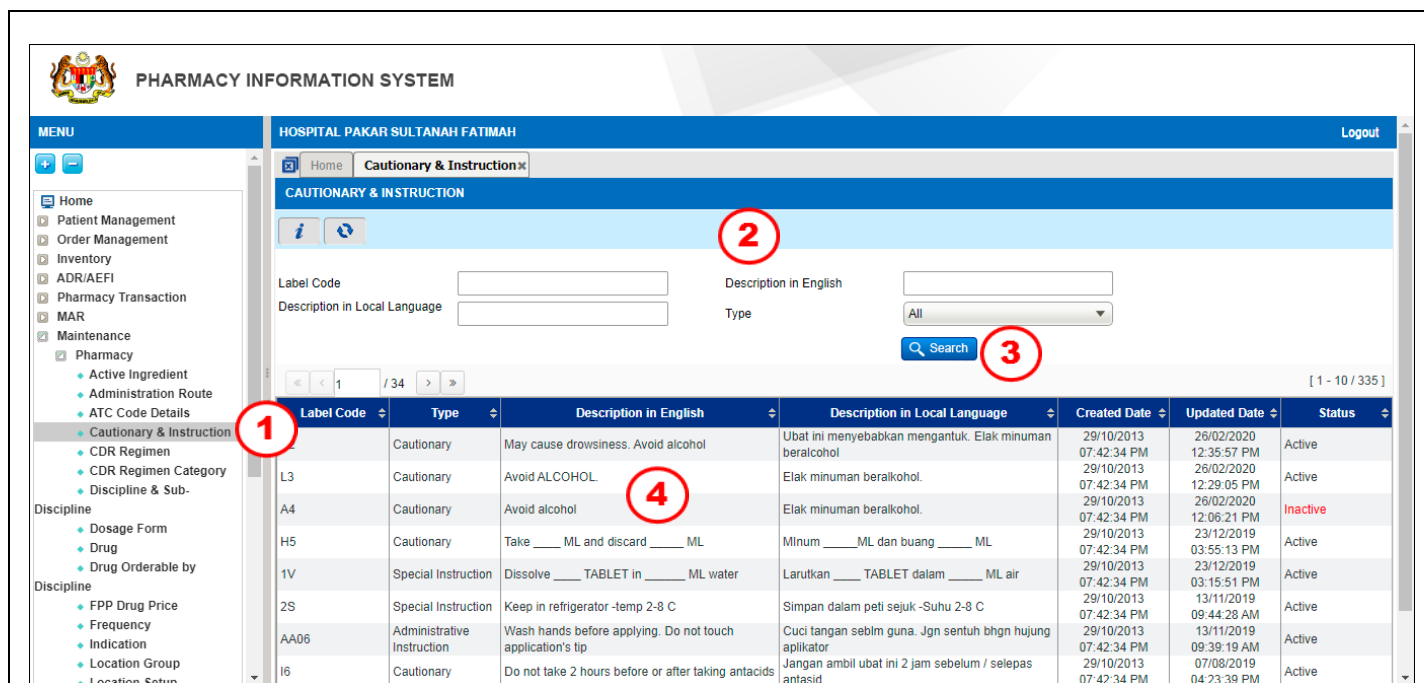
STEP 5

Click on the  button and to close record

3.4 Cautionary & Instruction

This screen shows list of Cautionary & Instruction that will be printed on Drug Label

To View Existing Record



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Cautionary & Instruction

CAUTIONARY & INSTRUCTION

Label Code: Description in English:

Description in Local Language: Type:

[1 - 10 / 335]

Label Code	Type	Description in English	Description in Local Language	Created Date	Updated Date	Status
L3	Cautionary	May cause drowsiness. Avoid alcohol	Ubat ini menyebabkan mengantuk. Elak minuman beralkohol	29/10/2013 07:42:34 PM	26/02/2020 12:35:57 PM	Active
A4	Cautionary	Avoid ALCOHOL	Elak minuman beralkohol.	29/10/2013 07:42:34 PM	26/02/2020 12:29:05 PM	Active
H5	Cautionary	Take ____ ML and discard ____ ML	Elak minuman beralkohol.	29/10/2013 07:42:34 PM	26/02/2020 12:06:21 PM	Inactive
1V	Special Instruction	Dissolve ____ TABLET in ____ ML water	Minum ____ ML dan buang ____ ML	29/10/2013 07:42:34 PM	23/12/2019 03:55:13 PM	Active
2S	Special Instruction	Keep in refrigerator -temp 2-8 C	Larutkan ____ TABLET dalam ____ ML air	29/10/2013 07:42:34 PM	23/12/2019 03:15:51 PM	Active
AA06	Administrative Instruction	Wash hands before applying. Do not touch application's tip	Simpan dalam peti sejuk -Suhu 2-8 C	29/10/2013 07:42:34 PM	13/11/2019 09:44:28 AM	Active
I6	Cautionary	Do not take 2 hours before or after taking antacids	Cuci tangan seblm guna. Jgn sentuh bghn hujung aplikator	29/10/2013 07:42:34 PM	13/11/2019 09:39:19 AM	Active
			Jangan ambil ubat ini 2 jam sebelum / selepas antasid	29/10/2013 07:42:34 PM	07/08/2019 04:23:39 PM	Active

Figure 3.4-1 Cautionary & Instruction

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Cautionary & Instruction'

STEP 2

Search existing record based on below search criteria:

- Label Code
- Description in Local Languages
- Description in English

STEP 3

Click on button to search the Cautionary & Instruction records

STEP 4

Double click on selected Cautionary & Instruction to view the record

CAUTIONARY AND INSTRUCTION	
 5 	
Label Code	K2 *
Type	Cautionary ▼
Description in English	May cause drowsiness. Avoid alcohol *
Description in Local Language	Ubat ini menyebabkan mengantuk. Elak minuman beralcohol *
Status	Active ▼

Figure 3.4-2 Cautionary And Instruction

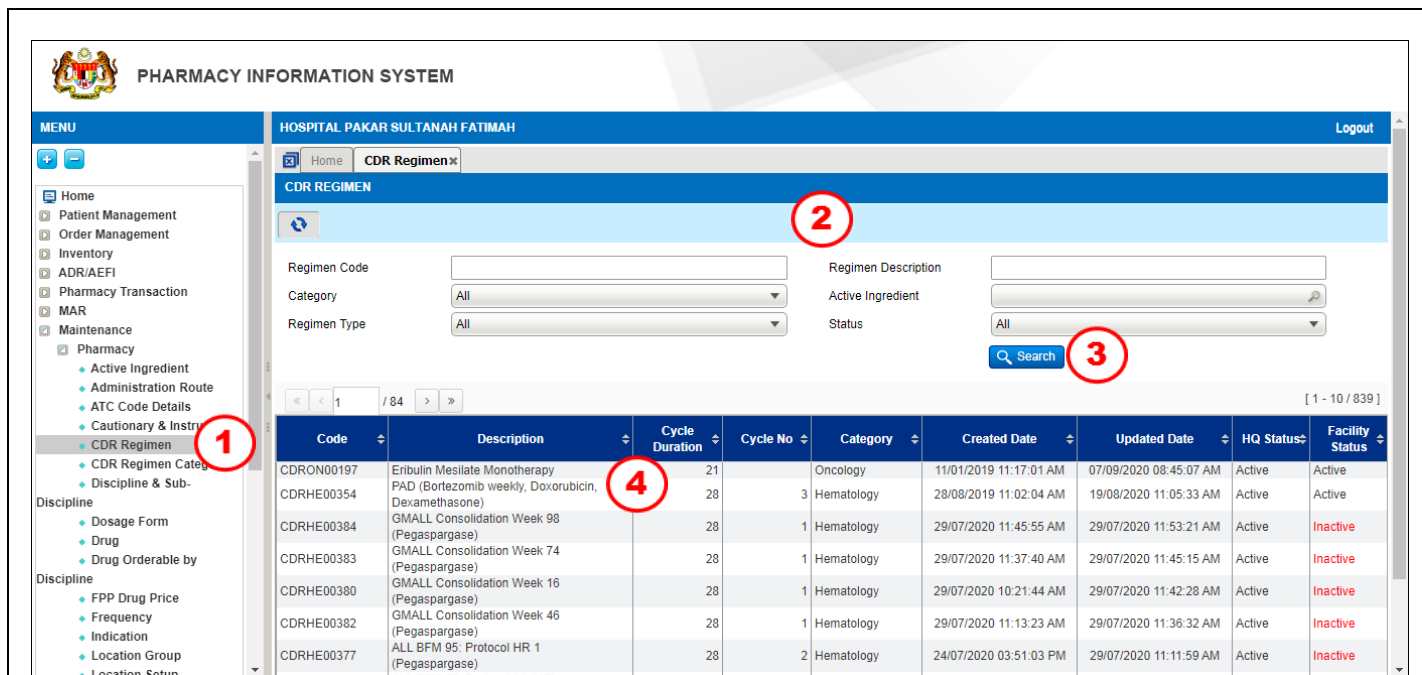
STEP 5

Click on the  button and to close record.

3.5 CDR Regimen

This screen shows the CDR Regimen screen. In this screen, users are allowed to choose which CDR regimen that will be use in the facility.

To View and Edit Existing Record



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Logout

Home CDR Regimen

CDR REGIMEN

Regimen Code: Regimen Description:

Category: Active Ingredient:

Regimen Type: Status:

1 / 84 [1 - 10 / 839]

Code	Description	Cycle Duration	Cycle No	Category	Created Date	Updated Date	HQ Status	Facility Status
CDRON00197	Eribulin Mesilate Monotherapy	21		Oncology	11/01/2019 11:17:01 AM	07/09/2020 08:45:07 AM	Active	Active
CDRHE00354	PAD (Bortezomib weekly, Doxorubicin, Dexamethasone)	28	3	Hematology	28/08/2019 11:02:04 AM	19/08/2020 11:05:33 AM	Active	Active
CDRHE00384	GMALL Consolidation Week 98 (Pegaspargase)	28	1	Hematology	29/07/2020 11:45:55 AM	29/07/2020 11:53:21 AM	Active	Inactive
CDRHE00383	GMALL Consolidation Week 74 (Pegaspargase)	28	1	Hematology	29/07/2020 11:37:40 AM	29/07/2020 11:45:15 AM	Active	Inactive
CDRHE00380	GMALL Consolidation Week 16 (Pegaspargase)	28	1	Hematology	29/07/2020 10:21:44 AM	29/07/2020 11:42:28 AM	Active	Inactive
CDRHE00382	GMALL Consolidation Week 46 (Pegaspargase)	28	1	Hematology	29/07/2020 11:13:23 AM	29/07/2020 11:36:32 AM	Active	Inactive
CDRHE00377	ALL BFM 95: Protocol HR 1 (Pegaspargase)	28	2	Hematology	24/07/2020 03:51:03 PM	29/07/2020 11:11:59 AM	Active	Inactive

Figure 3.5-1 CDR Regimen

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'CDR Regimen'

STEP 2

Search existing record based on below search criteria:

- Regimen Code
- Regimen Description
- Category
- Status
- Regimen type

STEP 3

Click on button to search the CDR Regimen records

STEP 4

Double click on selected CDR Regimen to view the record

ADD REGIMEN

5

Code

CDRON00179

*

Status

Active

*

Description

Cisplatin 80mg/m2 + 5FU 1g/m2 D2-5

*

Cycle Duration

21

*

Category

Oncology

*

Regimen Type

-

*

No. of Cycles

6

Remarks

REGIMEN DRUG

Seq.No.	Default Drug Name	Frequency	Dosage	Days	Remarks	Status
1	Cisplatin 50mg/50ml Injection	OD (once daily)	80 mg /m2	1		Active
2	Fluorouracil 1g/20ml Injection	OD (once daily)	1,000 mg /m2	2,3,4,5		Active

Figure 3.5-2 Edit Regimen

STEP 5

Click on  button to proceed with editing.

ADD REGIMEN

8

6

7

Code

CDRON00179

*

Status

Active

*

Description

Cisplatin 80mg/m2 + 5FU 1g/m2 D2-5

*

Cycle Duration

21

*

Category

Oncology

*

Regimen Type

-

*

No. of Cycles

6

Remarks

REGIMEN DRUG

Seq.No.	Default Drug Name	Frequency	Dosage	Days	Remarks	Status
1	Cisplatin 50mg/50ml Injection	OD (once daily)	80 mg /m2	1		Active
2	Fluorouracil 1g/20ml Injection	OD (once daily)	1,000 mg /m2	2,3,4,5		Active

Figure 3.5-3 Change Status in Add Regimen

STEP 6

Click on the Status and select options

- Active – CDR Regimen for dispensing is available in facility
- Inactive – CDR Regimen for dispensing is not available in facility

STEP 7

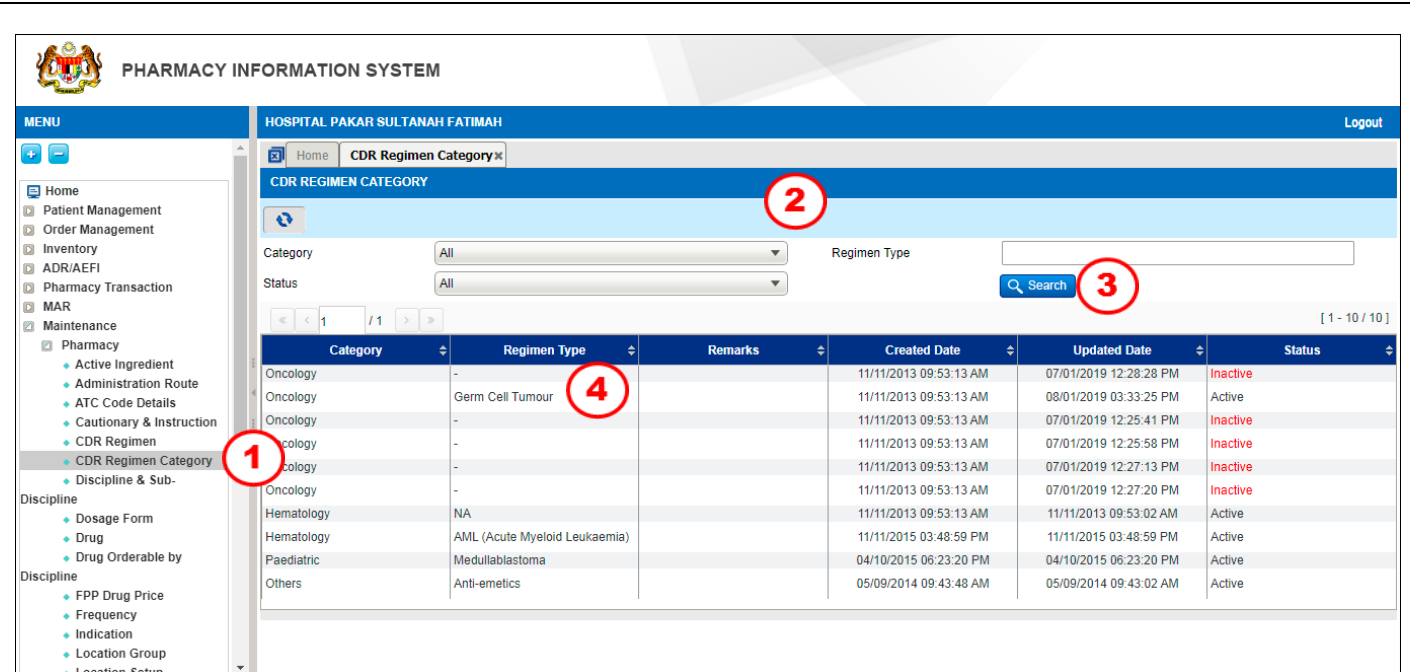
Click  button to save and complete the process

STEP 8

Click on the  button and to close record.

3.6 CDR Regimen Category

To view CDR Regimen Category record



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home CDR Regimen Category

CDR REGIMEN CATEGORY

Category: All Regimen Type: Search

Status: All

[1 - 10 / 10]

Category	Regimen Type	Remarks	Created Date	Updated Date	Status
Oncology	-		11/11/2013 09:53:13 AM	07/01/2019 12:28:28 PM	Inactive
Oncology	Germ Cell Tumour		11/11/2013 09:53:13 AM	08/01/2019 03:33:25 PM	Active
Oncology	-		11/11/2013 09:53:13 AM	07/01/2019 12:25:41 PM	Inactive
Oncology	-		11/11/2013 09:53:13 AM	07/01/2019 12:25:58 PM	Inactive
Oncology	-		11/11/2013 09:53:13 AM	07/01/2019 12:27:13 PM	Inactive
Oncology	-		11/11/2013 09:53:13 AM	07/01/2019 12:27:20 PM	Inactive
Hematology	NA		11/11/2013 09:53:13 AM	11/11/2013 09:53:02 AM	Active
Hematology	AML (Acute Myeloid Leukaemia)		11/11/2015 03:48:59 PM	11/11/2015 03:48:59 PM	Active
Paediatric	Medullablastoma		04/10/2015 06:23:20 PM	04/10/2015 06:23:20 PM	Active
Others	Anti-emetics		05/09/2014 09:43:48 AM	05/09/2014 09:43:02 AM	Active

Figure 3.6-1 CDR Regimen Category

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'CDR Regimen Category'

STEP 2

Search existing record based on below search criteria:

- Category
- Status
- Regimen Category

STEP 3

Click on  button to search the CDR Regimen Category records.

STEP 4

Double click on selected CDR Regimen to view the records.

CDR REGIMEN CATEGORY	
5 	
Category	Paediatric *
Regimen Type	Medullablastoma *
Remarks	
Status	Active *

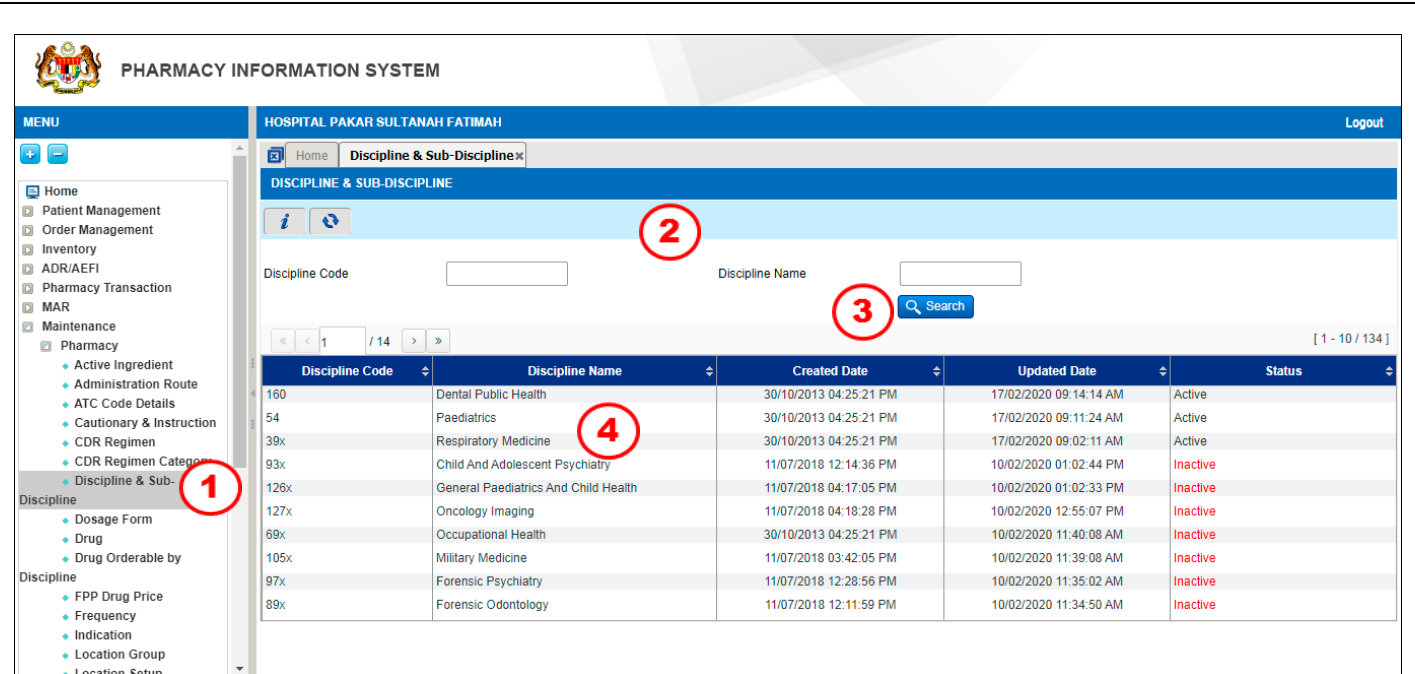
Figure 3.6-2 CDR Regimen Category

STEP 5

Click on the  button and to close record.

3.7 Discipline & Sub-Discipline

To View Discipline & Sub-Discipline record



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Discipline & Sub-Discipline

DISCIPLINE & SUB-DISCIPLINE

Discipline Code Discipline Name

< 1 / 14 >

Discipline Code	Discipline Name	Created Date	Updated Date	Status
160	Dental Public Health	30/10/2013 04:25:21 PM	17/02/2020 09:14:14 AM	Active
54	Paediatrics	30/10/2013 04:25:21 PM	17/02/2020 09:11:24 AM	Active
39x	Respiratory Medicine	30/10/2013 04:25:21 PM	17/02/2020 09:02:11 AM	Active
93x	Child And Adolescent Psychiatry	11/07/2018 12:14:36 PM	10/02/2020 01:02:44 PM	Inactive
126x	General Paediatrics And Child Health	11/07/2018 04:17:05 PM	10/02/2020 01:02:33 PM	Inactive
127x	Oncology Imaging	11/07/2018 04:18:28 PM	10/02/2020 12:55:07 PM	Inactive
69x	Occupational Health	30/10/2013 04:25:21 PM	10/02/2020 11:40:08 AM	Inactive
105x	Military Medicine	11/07/2018 03:42:05 PM	10/02/2020 11:39:08 AM	Inactive
97x	Forensic Psychiatry	11/07/2018 12:28:56 PM	10/02/2020 11:35:02 AM	Inactive
89x	Forensic Odontology	11/07/2018 12:11:59 PM	10/02/2020 11:34:50 AM	Inactive

Figure 3.7-1 Discipline & Sub-Discipline

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Discipline & Sub-Discipline'

STEP 2

Search existing record based on below search criteria:

- Discipline Code
- Discipline name

STEP 3

Click on button to search the Discipline & Sub-Discipline records

STEP 4

Double click on selected Discipline & Sub-Discipline to view the record

DISCIPLINE


5


Discipline Code	39x
Discipline Name	Respiratory Medicine
Status	Active
Remarks	16

SUB DISCIPLINE LIST



1
/ 1


[1 - 1 / 1]

Sub Discipline Code	Sub Discipline Name	Status
SD39	Respiratory Medicine	Active

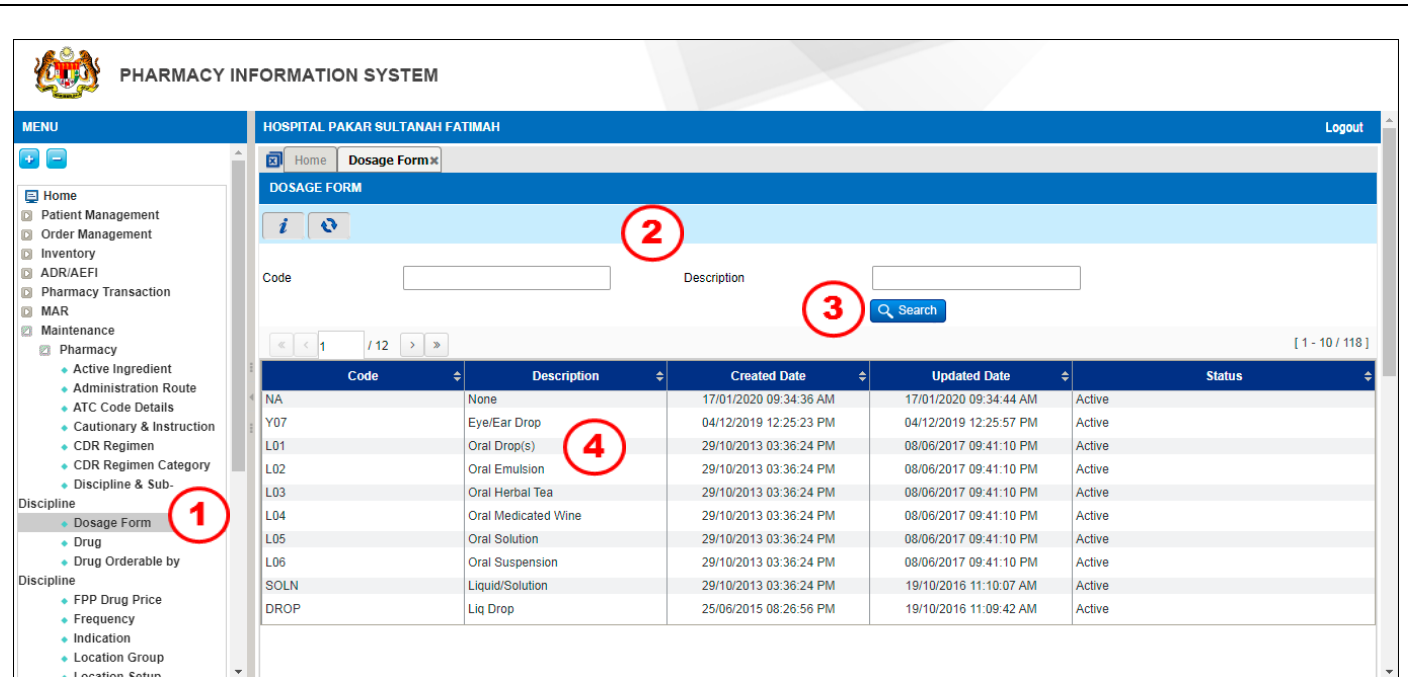
Figure 3.7-2 Discipline & Sub-Discipline List

STEP 5

Click on the  button and to close record

3.8 Dosage Form

To view Dosage Form record



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Dosage Form x

DOSAGE FORM

Code Description Search

1 / 12

[1 - 10 / 118]

Code	Description	Created Date	Updated Date	Status
NA	None	17/01/2020 09:34:36 AM	17/01/2020 09:34:44 AM	Active
Y07	Eye/Ear Drop	04/12/2019 12:25:23 PM	04/12/2019 12:25:57 PM	Active
L01	Oral Drop(s)	29/10/2013 03:36:24 PM	08/06/2017 09:41:10 PM	Active
L02	Oral Emulsion	29/10/2013 03:36:24 PM	08/06/2017 09:41:10 PM	Active
L03	Oral Herbal Tea	29/10/2013 03:36:24 PM	08/06/2017 09:41:10 PM	Active
L04	Oral Medicated Wine	29/10/2013 03:36:24 PM	08/06/2017 09:41:10 PM	Active
L05	Oral Solution	29/10/2013 03:36:24 PM	08/06/2017 09:41:10 PM	Active
L06	Oral Suspension	29/10/2013 03:36:24 PM	08/06/2017 09:41:10 PM	Active
SOLN	Liquid/Solution	29/10/2013 03:36:24 PM	19/10/2016 11:10:07 AM	Active
DROP	Liq Drop	25/06/2015 08:26:56 PM	19/10/2016 11:09:42 AM	Active

Figure 3.8-1 Dosage Form

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Dosage Form'.

STEP 2

Search existing record based on below search criteria:

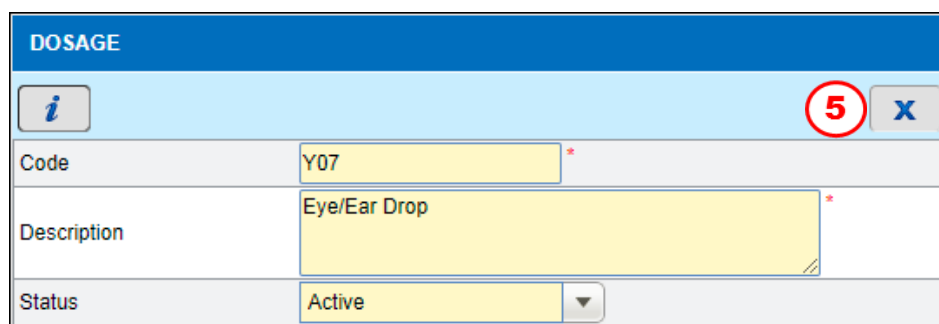
- Code
- Description

STEP 3

Button to search Dosage Form.

STEP 4

Double click on selected Dosage Form to view the record.



DOSAGE

i X

Code Y07 *

Description Eye/Ear Drop *

Status Active

Figure 3.8-2 Dosage Record

STEP 5

Click on the  button and to close record.

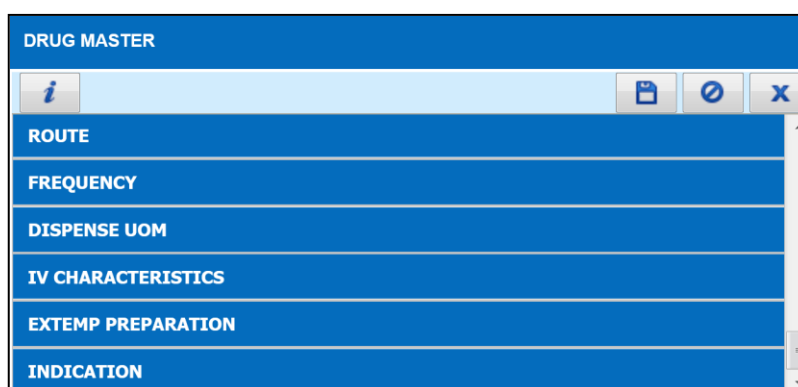
3.9 Drug

This screen consists of synchronized data from IWP (Integrated Web Portal) managed and supervised by Respective BPF. There are a few configurations can be edited and add by Data Admin in Facility. Drug Master screen allows facility user to view and modify a few drug master information. The Drug records is used for Inpatient Pharmacy, Outpatient Pharmacy, Medication Order, Manufacturing and other function in system.

Malaysia Drug Code (MDC) is a code assigned to a particular drug for identification. It is assigned uniquely to identify all drug products involving prescribed medicines and over the counter (OTC) products that have been registered with Drug Control Authority or have obtained special approval for use in Malaysia. The MDC will be used as a standard code for drug management in all health application systems in the Ministry of Health institution and for information sharing among health care providers.

MDC can also be used as a tool for drug utilization research. The use of standard coding throughout health facilities would ideally accomplish similar cost savings in contracting, inventory management, product identification, utilization and benchmarking, distribution and logistics management. MDC contains 17 alphanumeric digits and grouped into five segments.

As per below is information with details that manage by respective HQ.



Drug master consist:

Section	Functions
Route	Uses to set default route of administration as top selection during prescribing.
Frequency	Uses to sets Facility Default Frequency as top selection during prescribing.
Dispense UOM	Uses for allocation function at pharmacy preparation stage. This function allows user to dispense based on packaging.
IV Characteristic	Uses to sets default dilution and shelf life duration of an infusion upon IV Order.
Extemp Preparation	Uses to standardize formulation of preparation worksheet.
Indication	Uses to set a symptom that suggests certain medical treatment that necessary for a drug. This information will be used in prescribe function and printed label.

DRUG MASTER

Drug Code

A07DA01922T1001XX

Drug Category

B

Drug Schedule

Schedule Poison

Active Ingredient

Diphenoxylate

Drug Name

Diphenoxylate with Atropine Sulphate Tablet

Status

Active

Value To Be Displayed

☐ Strength
☒ Quantity
☐ None

Description in English

May be taken BEFORE OR AFTER food

Administration Instruction

This drug may cause drowsiness

Special Instruction

Not suitable for children

Cautionary

Formulary

Yes

Drug Type

General

Dosage Form

Oral Tablet

Item Sub Class

Tablet/Capsule

Drug Label

Diphenoxylate with Atropine Sulphate Tab

Vote Object

Ubat dan Dadah

Authorisation Category

B

Strength value

0

Quantity value

1 tablet

SKU

1 tablet

Conversion Factor

1

Trade Name

Lomotil

Defined Daily Dose

0 UOM

Drug Price

0.1500

Drug Average Price (RM)

0.1032

Description in Local Language

Boleh diambil SEBELUM ATAU SELEPAS makan

Ubat ini boleh menyebabkan rasa mengantuk

Tidak disyorkan untuk kanak-kanak

☒ Split Dose Applicable
☒ Taper Applicable
☐ Opioid Substitution Treatment (OST)

☒ NEDL Flag
☒ Fractional Dosage Applicable
☐ Fractional Dosage Round Up
☒ Full Paying Patient Drug

☐ AUC Calculator Applicable
☐ TDM
☐ Compounded Item
☐ Combination Drug
☐ Insulin Label

☐ Special Approved Drug
☐ Allow Duplicate Order

Facility Setting

☐ Allow dispensing more than prescribed quantity
☐ High Alert Medication

Preparation/Production Instruction

(for Prepacking, CDR, IV worksheet)

Default Dose/UOM

☐ HOD Authorisation

Figure 3.9-1 Drug Master

Note

- As per below is information that only viewable by facility user as per figure 3.9-1 Drug Master.

Drug Master	
Drug Code	These codes are based on HQ standards procedures and guidelines on drug code creation. Codes are based on MDC code and Code managed by HQ.
Drug Category	A drug is classified by the chemical type of the active ingredient or by the way it is used to treat a particular condition.
Drug Schedule	The sequence and time allotted for each drug or medication required for its completion.
Active Ingredient	Components of a chemical product which (irrespective of their relative quantity) help directly in achieving its performance objectives.
Drug Name	The chemical name of a drug
Drug Label	The name of a drug printed on label
Vote Object	Maintain by HQ and can be viewed by facility
Value to Be Display	HQ will select either one of these value, to be prescribe and dispensed: Strength – Strength or dosage of the drug Quantity – Amount of drug
Administration Instruction	Detailed directions on procedure to consume drug
Special Instruction	Special direction on how to consume drug
Cautionary	As a warning; intended to warn about the drug
Formulary	A book containing a list of pharmaceutical products, with their formulas and means of preparation, HQ will select from the drop down list: * Yes – if the drug prepared by referring to formulas * No – if the drug not prepared by referring to formulas

Drug Type	Kind of drug, HQ will be select from either one of these list: * General * Generator * PN * Radiopharma * Raw Material
Item Sub Class	Form of a drug.
Trade Name	A name used to identify a commercial product or service, also called brand name.
Status	Will be displayed condition: *Active – Status indicates HQ enable Facility User to use the drug. This will enable user to do next procurement, prescribing and others functionality at Facility. *Inactive – Status indicates HQ disable Facility User to use the drug. This will disable user to do next procurement, prescribing and others functionality at Facility.
Authorization Category	List of drug category if the particular drug need authorization, HQ will select either one from the drop down list: - * A - * A* - * A/KK - * C - * B
Description in Local Language	Statement or an account describing about the specific drug. -This field shall be defined in local language (e.g. Malay)
Strength Value	Amount of the drug strength.
Quantity Value	Amount of the drug quantity.
Dosage form	Describe the physical form of drug.
SKU	Stock keeping unit, amount of drug.
Conversation Factor	A value that represent ratio between SKU and PKU. This ratio used in various functions in system such as indenting, issuing and etc.
Define Daily Dose	A value to define daily dose for reporting purposes.
Drug Price	Drug`s price for Labeled drug.
Drug Average Price(RM)	It`s a price derived from a formula that calculates average of all item average price. Used for several functions and reports in system such as supplementary order for APPL, RPL and etc. Refer user manual inventory procurement APPL.

☒ Split Dose Applicable	☒ Taper Applicable	☐ Opioid Substitution Treatment (OST)
☒ NEDL Flag	☒ Fractional Dosage Applicable	☐ Fractional Dosage Round Up
☐ AUC Calculator Applicable	☐ TDM	☐ Compounded Item
☐ Special Approved Drug	☐ Allow Duplicate Order	☐ Combination Drug
		☒ Full Paying Patient Drug
		☐ Insulin Label

Figure 3.9-2 Drug Master

Note

- As per below is information that only viewable by facility user as per figure 3.9-1 Drug Master.

Column	Description
Split Dose Applicable	To enable split dose function for the drug upon ordering.
NEDL Flag	To set a drug is National Essential Drug List
AUC Calculator Applicable	To set a drug able to use AUC Calculator upon ordering
Special Approved Drug	To set a drug as KPK drug and use in Special Drug Request order, inventory etc.
Tapering Down	To enable Tapering Down function for the drug upon ordering.
Fractional Dosage Applicable	To enable Fractional Dosage function for the drug upon ordering.
TDM	To enable TDM function for the drug upon ordering.
Allow Duplicate Order	To Allow Duplicate Order function for the drug upon ordering.
Tapering Up	To Allow Tapering Up function for the drug upon ordering.
Fractional Dosage Round Up	To Allow Fractional Dosage Round Up function for the drug upon ordering.
Compounded Item	To Allow Compounded Item function for the drug upon preparation.
Combination Drug	To Allow Combination Drug function for the drug upon preparation.
Opioid Substitution Treatment (OST)	To Allow Methadone Dispensing function for the drug upon ordering.

To view and edit existing record

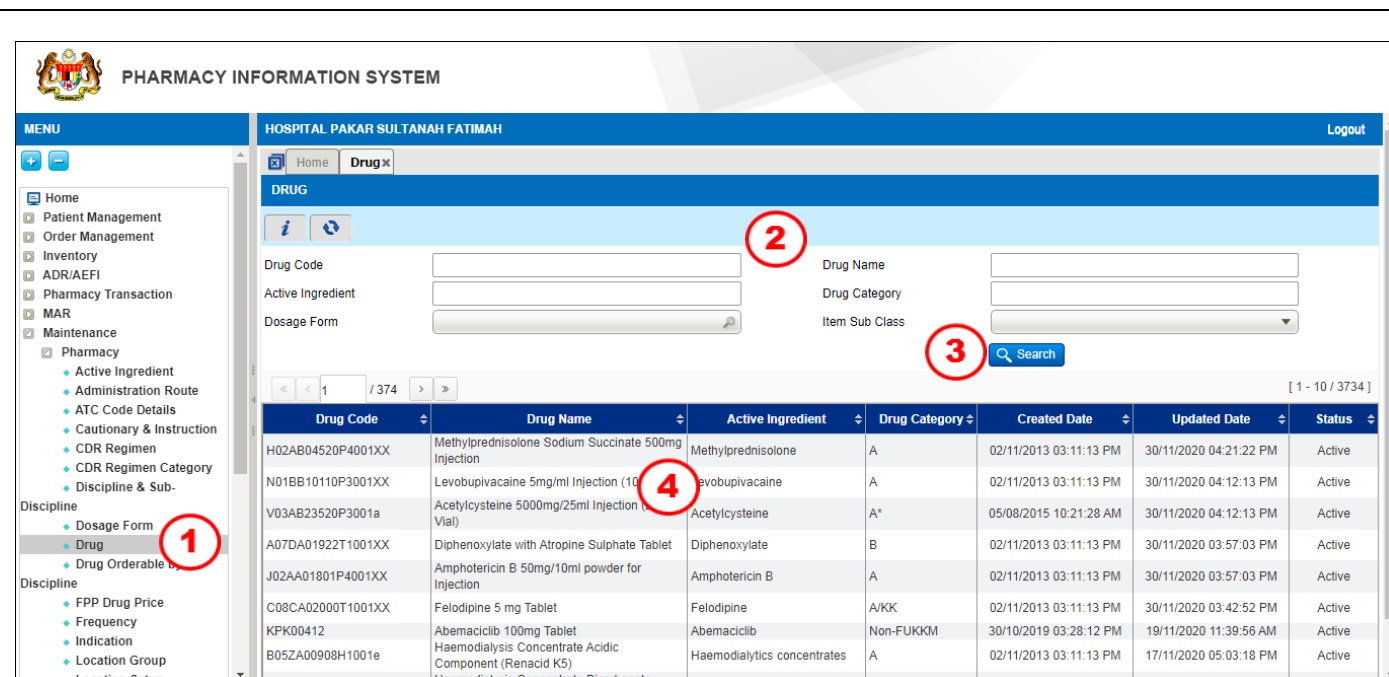


Figure 3.9-3 Drug Page

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' and click 'Drug'

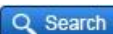
STEP 2

To search for existing record(s), user may search by criteria as follows:

No	Field	Description	Remarks
a	Drug Code	HQ drug code or etc	Able to filter and search record(s)
b	Drug Name	HQ drug name or etc	Able to filter and search record(s)
c	Active Ingredient	By Drug`s active ingredient	Able to filter and search record(s)
d	Drug Category	By Drug`s category	Able to filter and search record(s)
e	Dosage Form	Search by; - Oral Pill - Oral Suspension - etc	Display existing Data
f	Item subclass	Search by; - Cytotoxic - Tablet/Capsule - etc	Display existing Data

Table 3.9-4

STEP 3

Click on the  button after inserting criteria as per Figure 3.9-3 Drug Page.

Note

- The result display will be based on the entered criteria as shown in Figure 3.9-4.

STEP 4

Double click on the selected record details listed down as per Figure 3.1-1.

Note

- The details of the Drug's DRUG MASTER screen will be displayed as per Figure 3.1-2.

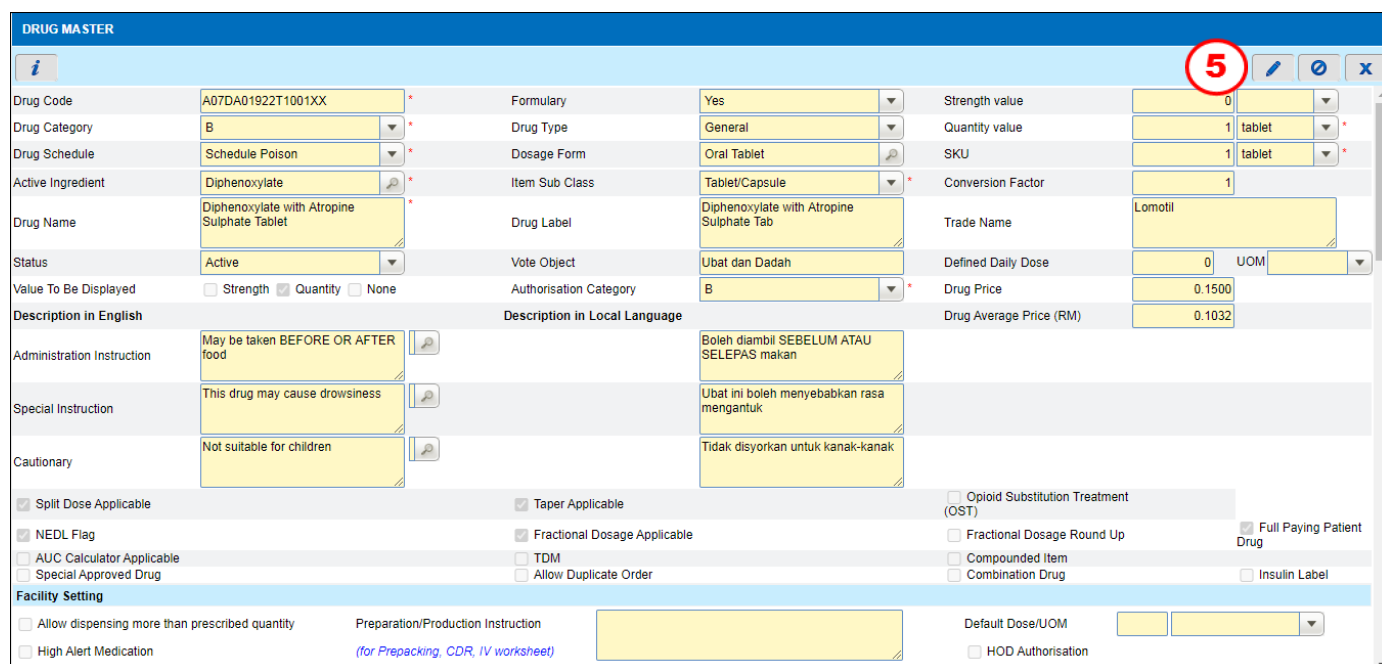


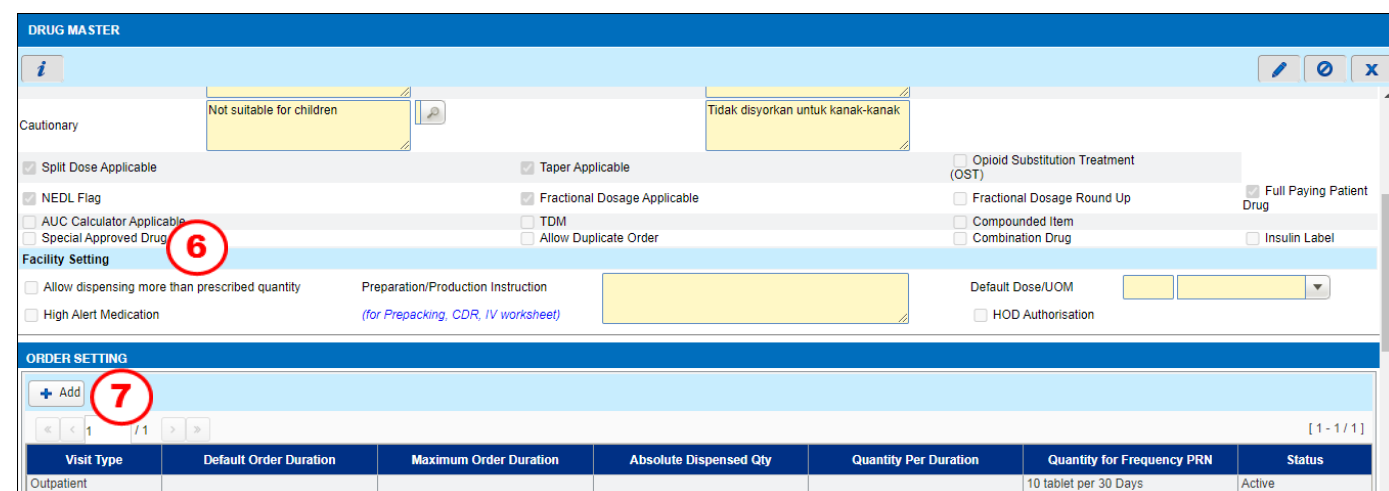
Figure 3.9-5 Drug Master

STEP 5

Click button  "Edit Record" as per Figure 3.9-5 Drug Master

Note

- This enable user to edit and add a few configuration



DRUG MASTER

Cautionary: Not suitable for children / Tidak disyorkan untuk kanak-kanak

☒ Split Dose Applicable ☒ Taper Applicable ☐ Opioid Substitution Treatment (OST)

☒ NEDL Flag ☒ Fractional Dosage Applicable ☐ Fractional Dosage Round Up ☒ Full Paying Patient Drug

☐ AUC Calculator Applicable ☐ TDM ☐ Compounded Item

☐ Special Approved Drug ☐ Allow Duplicate Order ☐ Combination Drug ☐ Insulin Label

Facility Setting

☐ Allow dispensing more than prescribed quantity ☐ High Alert Medication

Preparation/Production Instruction: (for Prepacking, CDR, IV worksheet)

Default Dose/UOM: 10 tablet per 30 Days

☐ HOD Authorisation

ORDER SETTING

+ Add

Visit Type	Default Order Duration	Maximum Order Duration	Absolute Dispensed Qty	Quantity Per Duration	Quantity for Frequency PRN	Status
Outpatient					10 tablet per 30 Days	Active

Figure 3.9-6 Drug Master

STEP 6

Edit facility setting by select the applicable ☐ check boxes;

Allow dispensing more than prescribed quantity.	To allow the selected drug to be dispensed more than prescribed quantity.
Default Qty when PRN Frequency selected.	To allow default quantity to be ordered When PRN Frequency Selected.
High Alert Medication.	To mark the drug with icon High Alert Medication at Ordering screen.
Absolute Dispense Qty.	To ensure the drug dispensing is equal or lower than value inserted during prescribe.
Quantity Per Duration	To allow default quantity to be ordered by duration with limited shelf life

STEP 7

Click on button to setting by select and fill the applicable boxes;

Visit Type	Able to select as below: - Daycare - Emergency - Inpatient - Outpatient - SPUB - Outsource - Walk-in
Default Order Duration	To allow duration for the drug ordered defaulted to the value upon prescribing.
Max Order Duration	To allow duration for the drug ordered maximum to the value upon prescribing.
Absolute Dispensed Qty	To set absolute dispensed quantity.
Quantity per Duration	To set quantity per duration.
Quantity for Frequency PRN	To set quantity for frequency PRN.

DRUG MASTER						
ROUTE						
[1 - 3 / 3]						
Code	Description	Facility Default Route	HQ Default Route	Factor	Description In Local Language	Status
IP	Intraperitoneal	☐	☐	1	Intraperitoneal	Active
IV	IV	☐ 8	☐	1	Intravenous	Active
INF	IV Infusion	☒	☒	1	IV Infusion	Active

Figure 3.9-7 Drug Master (Route)

STEP 8

Click the radio button to set the admin route practiced in the facility for the selected drug as per Figure 3.9-7 Drug Master.

DRUG MASTER										
FREQUENCY										
[1 - 8 / 8]										
Frequency Code	Description	Facility Default Frequency	HQ Default Frequency	Description In Local Language	Guideline	Status	Normal Order	IV Order	PN Order	CDR Order
EOD	EOD	☐	☐	Selang sehari (mula pada)	MOH Recommendation	Active	☒	☒	☒	☒
STAT	STAT	☐	☐	Serta merta	MOH Recommendation	Active	☒	☒	☒	☒
QID	QID (4 times a day)	☐ 9	☐	4 kali sehari	Off-label	Active	☒	☒	☒	☒
Q48H	Q48H	☐	☐	Setiap 48 jam	MOH Recommendation	Active	☒	☒	☒	☒
Q24H	Q24H	☐	☐	Setiap 24 jam	MOH Recommendation	Active	☒	☒	☒	☒
ONCE	Single dose	☐	☐	Sekali sahaja	MOH Recommendation	Inactive	☒	☒	☒	☒
ONCE-	Single Dose	☐	☐	Satu dos sahaja	MOH Recommendation	Active	☒	☒	☒	☒
OD	OD (once daily)	☒	☒	1 Kali Sehari	MOH Recommendation	Active	☒	☒	☒	☒
DISPENSE UOM										
[1 - 2 / 2]										
UOM Code	UOM Description	Conversion To Primary SKU	Dispensing Price	Status						
vial	vial	☒ 10	22.60	Active						
vial	vial	☐	22.60	Inactive						

Figure 3.9-8 Drug Master (Frequency & Dispense UOM)

STEP 9

Click the radio button to set the frequency practiced in the facility for the selected drug as per Figure 3.9-8 Drug Master.

STEP 10

Click the radio button to set default Dispense UOM (unit of measurement) during drug preparation as per Figure 3.9-8 Drug Master.

DRUG MASTER

IV CHARACTERISTICS

Diluent

☐

Drug

☒

Infuse Over (hh:mm)

Reconstitution Fluid

Inotrope Order Applicable

☐

Storage Condition

☐ Room Temperature (< 25 °C)
 ☒ Refrigerate (2 - 8 °C)

Preparation Options

☒ Option 1: Total Volume = Drug Volume + Diluent Volume
 ☐ Option 2: Diluent Volume = Total Volume - Drug Volume

Shelf Life

Protect from Light

☒

Below 0°C

☐

Compatible Fluid

/

- /

Drug	Default	Status
Dextrose 5% 250ml IV soln	☐	Active
Fat emulsion, SMOFlipid 20% 500ml IV Soln	☐	Inactive
Dextrose 5% 500ml IV soln	☒	Active
Dextrose 5% 100ml IV soln	☐	Active

Figure 3.9-9 Drug Master (IV Characteristics)

STEP 11

Click the radio button to set your default configuration as per Figure 3.9-9 Drug Master.

STEP 12

Click the radio button to set your default configuration as per Figure 3.9-9 Drug Master.

EXTEMP PREPARATION

/

☒

Default	ion Name	Vehicle	Storage	Expiry (Days)	Remark	Facility Status	HQ Status
No Records Found!							

INDICATION

/

- /

Indication Code	Indication Description	Facility Default Indication	HQ Default Indication	Guideline	Status
C02	Hypertension	☐	☒	MOH Recommendation	Active
IND0572	High blood pressure	☐	☐	MOH Recommendation	Inactive
C08C	Calcium Channel Blockers	☐	☐	MOH Recommendation	Active

Figure 3.9-10 Drug Master (Extemp Preparation & Indication)

STEP 13

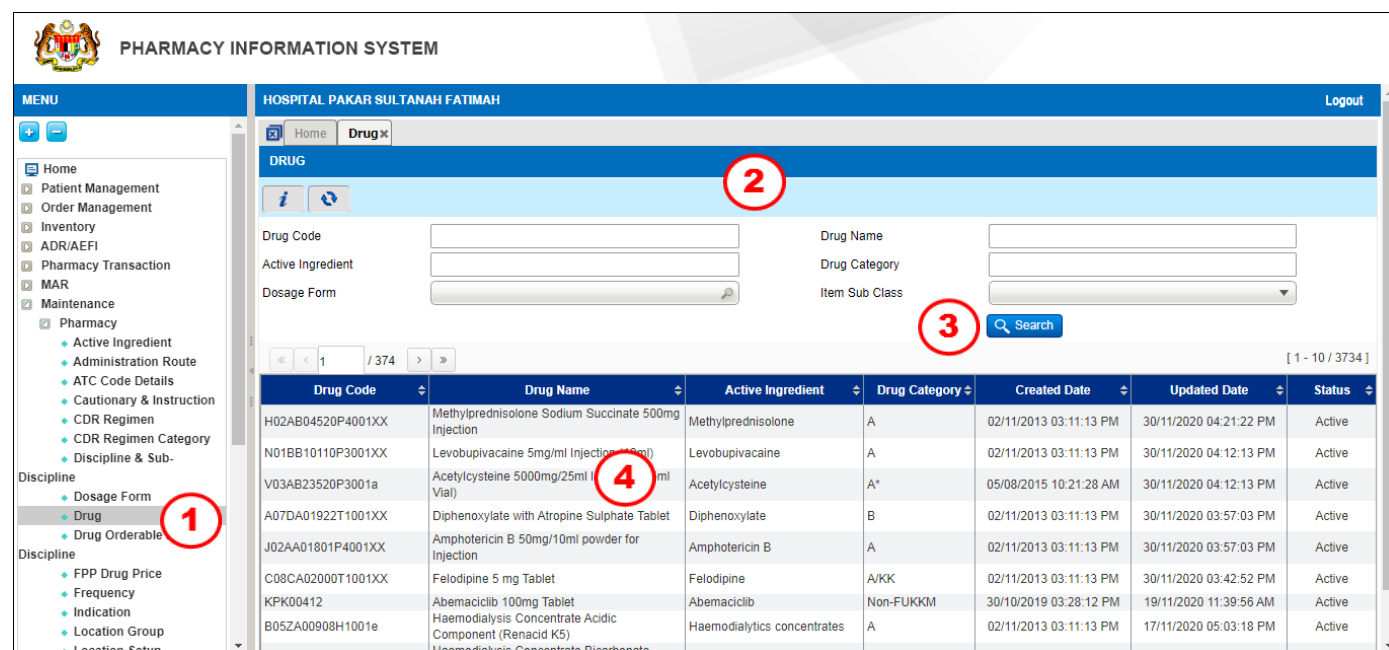
Click the radio button to set your default preparation for extemporaneous as per Figure 3.9-10 Drug Master.

STEP 14

Click the radio button to set your facility default indication to be printed on label as per Figure 3.9-10 Drug Master.

To Add New record

This function is to add function order settings by facility that are allowed by HQ.



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

MENU

- Home
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 - Pharmacy
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 - Administration Route
 - ATC Code Details
 - Cautionary & Instruction
 - CDR Regimen
 - CDR Regimen Category
 - Discipline & Sub-Discipline
 - Discipline
 - Drug (1)
 - Drug Orderable
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup

DRUG

Drug Code:

Active Ingredient:

Dosage Form:

Drug Name:

Drug Category:

Item Sub Class:

Search (3)

[1 - 10 / 3734]

Drug Code	Drug Name	Active Ingredient	Drug Category	Created Date	Updated Date	Status
H02AB04520P4001XX	Methylprednisolone Sodium Succinate 500mg Injection	Methylprednisolone	A	02/11/2013 03:11:13 PM	30/11/2020 04:21:22 PM	Active
N01BB10110P3001XX	Levobupivacaine 5mg/ml Injection (50ml)	Levobupivacaine	A	02/11/2013 03:11:13 PM	30/11/2020 04:12:13 PM	Active
V03AB23520P3001a	Acetylcysteine 5000mg/25ml (50ml Vial)	Acetylcysteine	A*	05/08/2015 10:21:28 AM	30/11/2020 04:12:13 PM	Active
A07DA01922T1001XX	Diphenoxylate with Atropine Sulphate Tablet	Diphenoxylate	B	02/11/2013 03:11:13 PM	30/11/2020 03:57:03 PM	Active
J02AA01801P4001XX	Amphotericin B 50mg/10ml powder for Injection	Amphotericin B	A	02/11/2013 03:11:13 PM	30/11/2020 03:57:03 PM	Active
C08CA02000T1001XX	Felodipine 5 mg Tablet	Felodipine	A/KK	02/11/2013 03:11:13 PM	30/11/2020 03:42:52 PM	Active
KPKK00412	Abemaciclib 100mg Tablet	Abemaciclib	Non-FUKKM	30/10/2019 03:28:12 PM	19/11/2020 11:39:56 AM	Active
B05ZA00908H1001e	Haemodialysis Concentrate Acidic Component (Renacid K5)	Haemodialysis concentrates	A	02/11/2013 03:11:13 PM	17/11/2020 05:03:18 PM	Active
	Haemodialysis Concentrate Bicarbonate					

Figure 3.9-11 Drug Master

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' and click 'Drug'

STEP 2

To search for existing record(s), user may search by criteria as follows:

No	Field	Description	Remarks
a	Drug Code	HQ drug code or etc	Able to filter and search record(s)
b	Drug Name	HQ drug name or etc	Able to filter and search record(s)
c	Active Ingredient	By Drug's active ingredient	Able to filter and search record(s)
d	Drug Category	By Drug's category	Able to filter and search record(s)
e	Dosage Form	Search by; - Oral Pill - Oral Suspension - etc	Display existing Data
f	Item subclass	Search by; - Cytotoxic - Tablet/Capsule - etc	Display existing Data

Table 3.9-12

STEP 3

Click on the  button after inserting criteria as per Figure 3.9-11 Drug Page.

Note

- The result display will be based on the entered criteria as shown in Figure 3.9-12.

STEP 4

Double click on the selected record details listed down as per Figure 3.9-11

Note

- The details of the Drug's DRUG MASTER screen will be displayed as per Figure 3.9-12

DRUG MASTER

5

Drug Code	C08CA02000T1001XX	Formulary	Yes	Strength value	5 mg
Drug Category	A/KK	Drug Type	General	Quantity value	1 tablet
Drug Schedule	Schedule Poison	Dosage Form	Oral Tablet	SKU	1 tablet
Active Ingredient	Felodipine	Item Sub Class	Tablet/Capsule	Conversion Factor	1
Drug Name	Felodipine 5 mg Tablet	Drug Label	Felodipine 5mg Tab	Trade Name	Plendil
Status	Active	Vote Object	Ubat dan Dadah	Defined Daily Dose	0 UOM
Value To Be Displayed	☐ Strength ☒ Quantity ☐ None	Authorisation Category	A/KK	Drug Price	0.3000
Description in English	Description in Local Language		Drug Average Price (RM)	0.2332	
Administration Instruction	May be taken BEFORE OR AFTER food		Boleh diambil SEBELUM ATAU SELEPAS makan		
Special Instruction	Take medicine as directed by doctor/pharmacist		Ambil dos ubat mengikut arahan doktor/ ahli farmasi		
Cautionary					

☒ Split Dose Applicable
 ☒ Taper Applicable
 ☐ Opioid Substitution Treatment (OST)

☐ NEDL Flag
 ☒ Fractional Dosage Applicable
 ☐ Fractional Dosage Round Up
 ☒ Full Paying Patient Drug

☐ AUC Calculator Applicable
 ☐ TDM
 ☐ Compounded Item

☐ Special Approved Drug
 ☒ Allow Duplicate Order
 ☒ Combination Drug
 ☐ Insulin Label

Facility Setting

☐ Allow dispensing more than prescribed quantity
 Preparation/Production Instruction
 Default Dose/UOM: 5 mg

☐ High Alert Medication
 (for Prepacking, CDR, IV worksheet)
 ☐ HOD Authorisation

Figure 3.9-13 Drug Master

STEP 5

Click button  "Edit Record" as per Figure 3.9-13 Drug Master.

DRUG MASTER

FREQUENCY

Frequency Code	Description	Facility Default Frequency	HQ Default Frequency	Description in Local Language	Guideline	Status	Normal Order	IV Order	PN Order	CDR Order
STAT	STAT	☐	☐	Serta merta	MOH Recommendation	Active	☒	☒	☒	☒
OD	OD (once daily)	☒	☒	1 Kali Sehari	MOH Recommendation	Active	☒	☒	☒	☒
ONCE	Single dose	☐	☐	Sekali sahaja	MOH Recommendation	Inactive	☒	☒	☒	☒

DISPENSE UOM

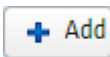
6

UOM Code	UOM Description	Conversion To Primary SKU	Dispensing Price	Status
can	can	1	0.00	Inactive
can	can	1	0.00	Active

7

Figure 3.9-14 Drug Master

STEP 6

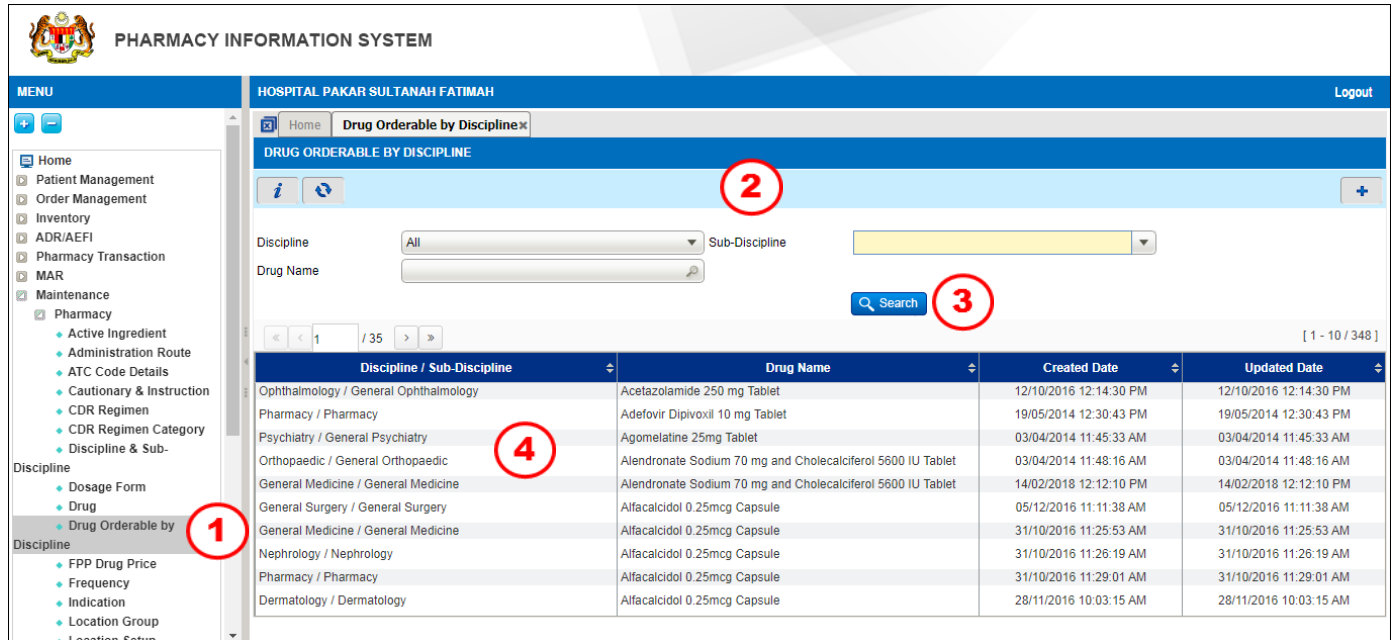
Click the  button to set your default configuration as per Figure 3.9-14 Drug Master.

STEP 7

Click the radio button to set your default configuration to assist on order as per Figure 3.9-14 Drug Master.

3.10 Drug Orderable by Discipline

To view and edit Drug Orderable by Discipline



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home Drug Orderable by Discipline

DRUG ORDERABLE BY DISCIPLINE

Discipline: All Sub-Discipline: []

Drug Name: []

Search

[1 - 10 / 348]

Discipline / Sub-Discipline	Drug Name	Created Date	Updated Date
Ophthalmology / General Ophthalmology	Acetazolamide 250 mg Tablet	12/10/2016 12:14:30 PM	12/10/2016 12:14:30 PM
Pharmacy / Pharmacy	Adefovir Dipivoxil 10 mg Tablet	19/05/2014 12:30:43 PM	19/05/2014 12:30:43 PM
Psychiatry / General Psychiatry	Agomelatine 25mg Tablet	03/04/2014 11:45:33 AM	03/04/2014 11:45:33 AM
Orthopaedic / General Orthopaedic	Alendronate Sodium 70 mg and Cholecalciferol 5600 IU Tablet	03/04/2014 11:48:16 AM	03/04/2014 11:48:16 AM
General Medicine / General Medicine	Alendronate Sodium 70 mg and Cholecalciferol 5600 IU Tablet	14/02/2018 12:12:10 PM	14/02/2018 12:12:10 PM
General Surgery / General Surgery	Alfacalcidol 0.25mcg Capsule	05/12/2016 11:11:38 AM	05/12/2016 11:11:38 AM
General Medicine / General Medicine	Alfacalcidol 0.25mcg Capsule	31/10/2016 11:25:53 AM	31/10/2016 11:25:53 AM
Nephrology / Nephrology	Alfacalcidol 0.25mcg Capsule	31/10/2016 11:26:19 AM	31/10/2016 11:26:19 AM
Pharmacy / Pharmacy	Alfacalcidol 0.25mcg Capsule	31/10/2016 11:29:01 AM	31/10/2016 11:29:01 AM
Dermatology / Dermatology	Alfacalcidol 0.25mcg Capsule	28/11/2016 10:03:15 AM	28/11/2016 10:03:15 AM

Figure 3.10-1 Drug Orderable by Discipline

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Drug Orderable by Discipline'

STEP 2

Click  button existing record based on below search criteria:

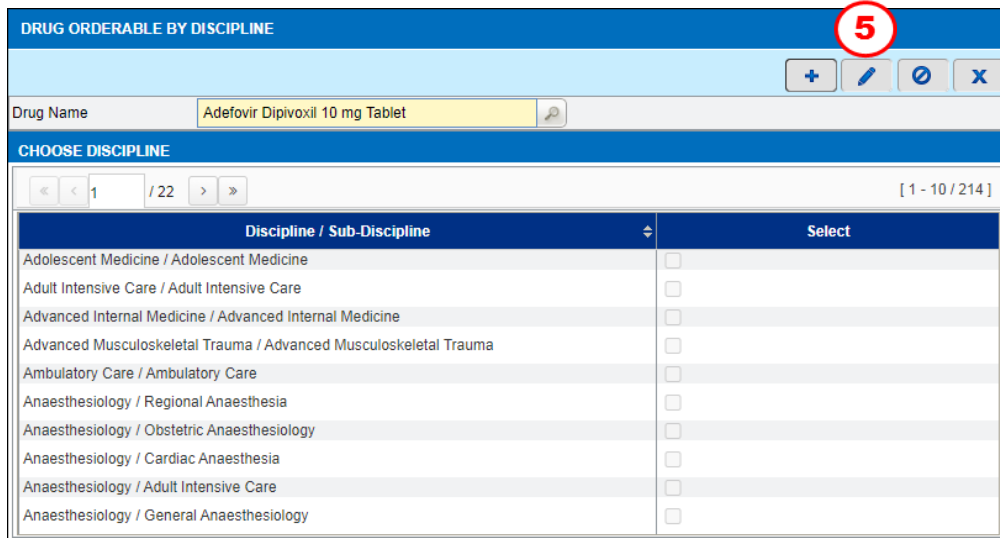
- Discipline
- Drug Name

STEP 3

Button to search Drug Orderable by Discipline

STEP 4

Double click on selected Drug Orderable by Discipline to view the record



DRUG ORDERABLE BY DISCIPLINE

Drug Name: Adefovir Dipivoxil 10 mg Tablet

CHOOSE DISCIPLINE

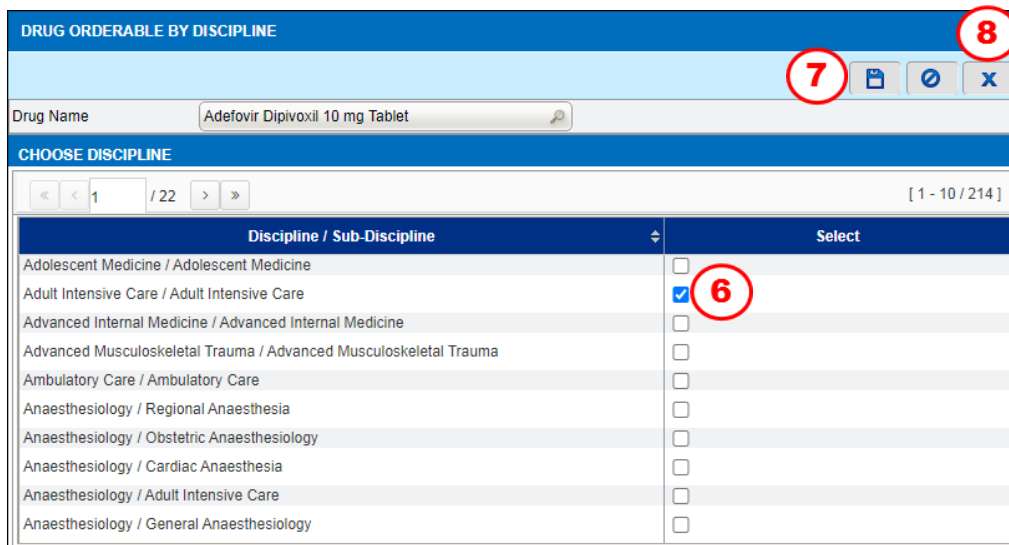
< < 1 / 22 > > [1 - 10 / 214]

Discipline / Sub-Discipline	Select
Adolescent Medicine / Adolescent Medicine	☐
Adult Intensive Care / Adult Intensive Care	☐
Advanced Internal Medicine / Advanced Internal Medicine	☐
Advanced Musculoskeletal Trauma / Advanced Musculoskeletal Trauma	☐
Ambulatory Care / Ambulatory Care	☐
Anaesthesiology / Regional Anaesthesia	☐
Anaesthesiology / Obstetric Anaesthesiology	☐
Anaesthesiology / Cardiac Anaesthesia	☐
Anaesthesiology / Adult Intensive Care	☐
Anaesthesiology / General Anaesthesiology	☐

Figure 3.10-2 Drug Orderable by Discipline

STEP 5

Click on the  button and to edit record



DRUG ORDERABLE BY DISCIPLINE

Drug Name: Adefovir Dipivoxil 10 mg Tablet

CHOOSE DISCIPLINE

< < 1 / 22 > > [1 - 10 / 214]

Discipline / Sub-Discipline	Select
Adolescent Medicine / Adolescent Medicine	☐
Adult Intensive Care / Adult Intensive Care	☒
Advanced Internal Medicine / Advanced Internal Medicine	☐
Advanced Musculoskeletal Trauma / Advanced Musculoskeletal Trauma	☐
Ambulatory Care / Ambulatory Care	☐
Anaesthesiology / Regional Anaesthesia	☐
Anaesthesiology / Obstetric Anaesthesiology	☐
Anaesthesiology / Cardiac Anaesthesia	☐
Anaesthesiology / Adult Intensive Care	☐
Anaesthesiology / General Anaesthesiology	☐

Figure 3.10-3 Drug Orderable by Discipline

STEP 6

Select Discipline/Sub-Discipline by clicking on the check box in Select

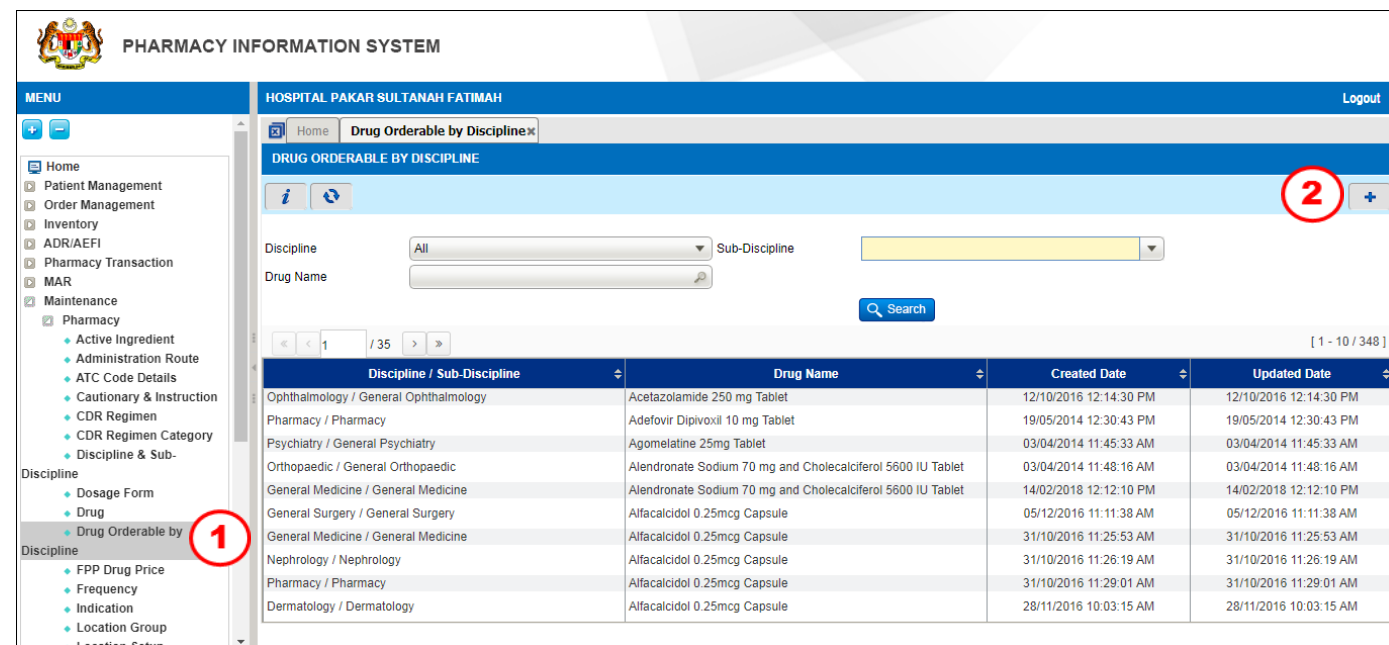
STEP 7

Click  button to save and complete the process

STEP 8

Click on the  button and to close record

To add new Drug Orderable by Facility



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Drug Orderable by Discipline

DRUG ORDERABLE BY DISCIPLINE

Discipline: All Sub-Discipline: []

Drug Name: []

Search

[1 - 10 / 348]

Discipline / Sub-Discipline	Drug Name	Created Date	Updated Date
Ophthalmology / General Ophthalmology	Acetazolamide 250 mg Tablet	12/10/2016 12:14:30 PM	12/10/2016 12:14:30 PM
Pharmacy / Pharmacy	Adefovir Dipivoxil 10 mg Tablet	19/05/2014 12:30:43 PM	19/05/2014 12:30:43 PM
Psychiatry / General Psychiatry	Agomelatine 25mg Tablet	03/04/2014 11:45:33 AM	03/04/2014 11:45:33 AM
Orthopaedic / General Orthopaedic	Alendronate Sodium 70 mg and Cholecalciferol 5600 IU Tablet	03/04/2014 11:48:16 AM	03/04/2014 11:48:16 AM
General Medicine / General Medicine	Alendronate Sodium 70 mg and Cholecalciferol 5600 IU Tablet	14/02/2018 12:12:10 PM	14/02/2018 12:12:10 PM
General Surgery / General Surgery	Alfacalcidol 0.25mcg Capsule	05/12/2016 11:11:38 AM	05/12/2016 11:11:38 AM
General Medicine / General Medicine	Alfacalcidol 0.25mcg Capsule	31/10/2016 11:25:53 AM	31/10/2016 11:25:53 AM
Nephrology / Nephrology	Alfacalcidol 0.25mcg Capsule	31/10/2016 11:26:19 AM	31/10/2016 11:26:19 AM
Pharmacy / Pharmacy	Alfacalcidol 0.25mcg Capsule	31/10/2016 11:29:01 AM	31/10/2016 11:29:01 AM
Dermatology / Dermatology	Alfacalcidol 0.25mcg Capsule	28/11/2016 10:03:15 AM	28/11/2016 10:03:15 AM

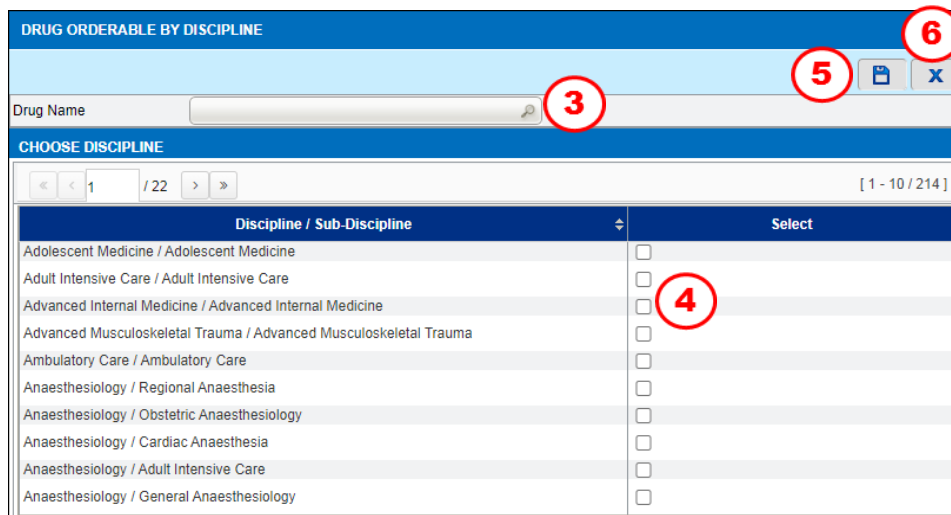
Figure 3.10-4 Drug Orderable by Discipline

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Drug Orderable by Discipline'

STEP 2

Click add button to add new Drug Orderable by Discipline



DRUG ORDERABLE BY DISCIPLINE

Drug Name: []

CHOOSE DISCIPLINE

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Discipline / Sub-Discipline	Select
Adolescent Medicine / Adolescent Medicine	☐
Adult Intensive Care / Adult Intensive Care	☐
Advanced Internal Medicine / Advanced Internal Medicine	☐
Advanced Musculoskeletal Trauma / Advanced Musculoskeletal Trauma	☐
Ambulatory Care / Ambulatory Care	☐
Anaesthesiology / Regional Anaesthesia	☐
Anaesthesiology / Obstetric Anaesthesiology	☐
Anaesthesiology / Cardiac Anaesthesia	☐
Anaesthesiology / Adult Intensive Care	☐
Anaesthesiology / General Anaesthesiology	☐

Figure 3.10-5 Drug Orderable by Discipline

STEP 3

Click  and search for drugs to setup.

STEP 4

Select Discipline/Sub-Discipline by clicking on the check box in Select.

STEP 5

Click  button to save and complete the process.

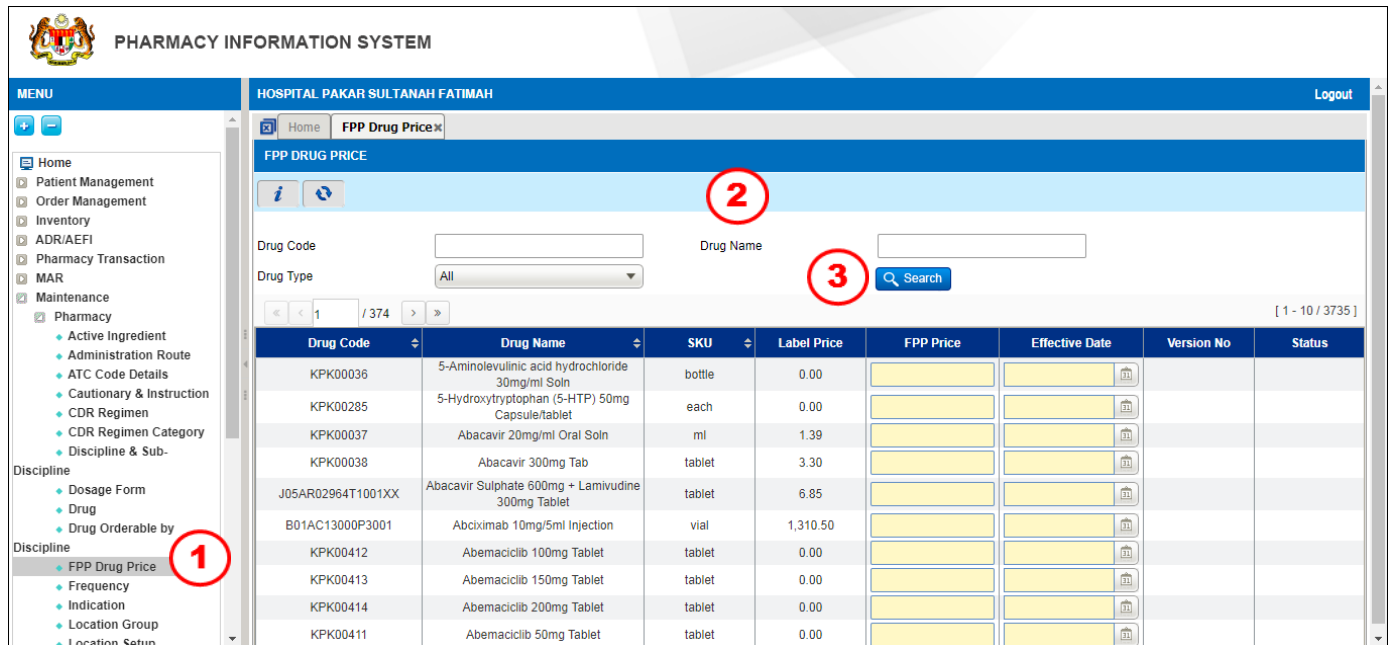
STEP 6

Click on the  button and to close record.

3.11 FPP Drug Price

FPP Drug Price is to view full payment price for drug price.

To view FPP Drug Price



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home FPP Drug Price

FPP DRUG PRICE

Drug Code: Drug Name:

Drug Type:

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Drug Code	Drug Name	SKU	Label Price	FPP Price	Effective Date	Version No	Status
KPK00036	5-Aminolevulinic acid hydrochloride 30mg/ml Soln	bottle	0.00				
KPK00285	5-Hydroxytryptophan (5-HTP) 50mg Capsule/tablet	each	0.00				
KPK00037	Abacavir 20mg/ml Oral Soln	ml	1.39				
KPK00038	Abacavir 300mg Tab	tablet	3.30				
J05AR02964T1001XX	Abacavir Sulphate 600mg + Lamivudine 300mg Tablet	tablet	6.85				
B01AC1300P3001	Abciximab 10mg/5ml Injection	vial	1,310.50				
KPK00412	Abemaciclib 100mg Tablet	tablet	0.00				
KPK00413	Abemaciclib 150mg Tablet	tablet	0.00				
KPK00414	Abemaciclib 200mg Tablet	tablet	0.00				
KPK00411	Abemaciclib 50mg Tablet	tablet	0.00				

Figure 3.11-1 FPP Drug Price

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'FPP Drug Price'

STEP 2

Click button existing record based on below search criteria:

- Drug Code
- Drug Name
- Drug Type
 - All
 - FPP Drug
 - Non FPP Drug

STEP 3

Click button to search FPP Drug Price


PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH
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 - CDR Regimen
 - CDR Regimen Category
 - Discipline & Sub-Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup

FPP DRUG PRICE

Drug Code:
Drug Name:
Drug Type:

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Drug Code	Drug Name	SKU	Label Price	FPP Price	Effective Date	Version No	Status
A10BF01000T1001XX	Acarbose 50 mg Tablet	tablet	0.20	0.80	01/09/2018	1	Active
S01EC01000T1001XX	Acetazolamide 250 mg Tablet	tablet	0.60	0.10	01/09/2018	1	Active
V03AB23520P3001XX	Acetylcysteine 200mg/ml Injection, 10ml	vial	16.15	37.20	01/09/2018	1	Active
B01AC06259T1001XX	Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet	tablet	0.10	0.20	01/09/2018	1	Active
N02BA01000T4001XX	Acetylsalicylic Acid 300 mg Soluble Tablet	tablet	0.30	0.10	01/09/2018	1	Active
D05BB02000C1001XX	Acitretin 10mg Capsule	capsule	3.20	3.80	01/09/2018	1	Active
D05BB02000C1002XX	Acitretin 25mg Capsule	capsule	6.40	7.65	01/09/2018	1	Active
D08AA03000L6001XX	Acriflavine 0.1% Lotion	ml	0.03	0.01	01/09/2018	1	Active
L01DA01110P4001XX	Actinomycin D (Dactinomycin) 500 mcg/ml Injection	vial	82.70	33.50	01/09/2018	1	Active
J05AB01000T1001XX	Acyclovir 200 mg Tablet	tablet	0.90	0.80	01/09/2018	1	Active

Figure 3.11-2 FPP Drug Price

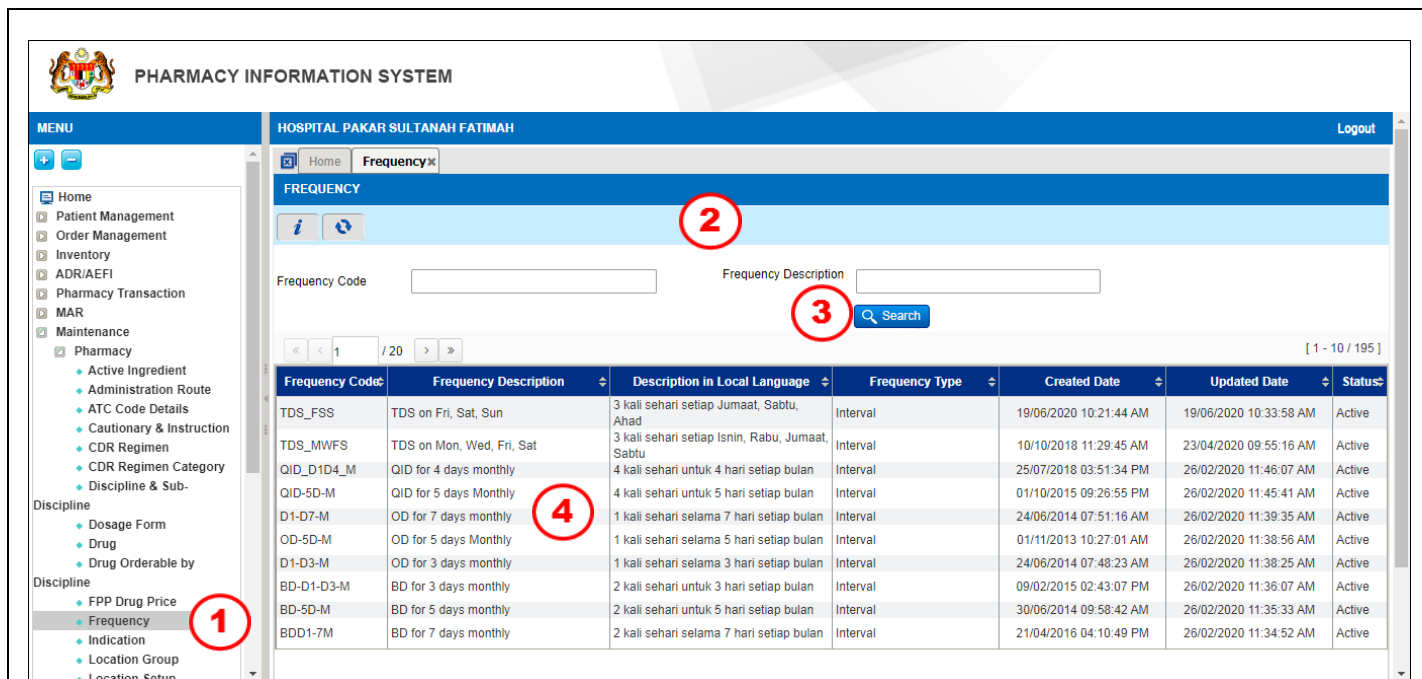
Note

Once click search for drug type, record for FPP price and Effective Date will be shown in Figure 3.11-2

3.12 Frequency

Frequency is number of times that drug administrated within a given period or per day. Drug is ordered and dispensed based on the frequency set by HQ. Users are able to view existing frequency master record details made by HQ in system.

To view frequency



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Frequencyx

FREQUENCY

Frequency Code Frequency Description

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Frequency Code	Frequency Description	Description in Local Language	Frequency Type	Created Date	Updated Date	Status
TDS_FSS	TDS on Fri, Sat, Sun	3 kali sehari setiap Jumaat, Sabtu, Ahad	Interval	19/06/2020 10:21:44 AM	19/06/2020 10:33:58 AM	Active
TDS_MWFS	TDS on Mon, Wed, Fri, Sat	3 kali sehari setiap Isnin, Rabu, Jumaat, Sabtu	Interval	10/10/2018 11:29:45 AM	23/04/2020 09:55:16 AM	Active
QID_D1D4_M	QID for 4 days monthly	4 kali sehari untuk 4 hari setiap bulan	Interval	25/07/2018 03:51:34 PM	26/02/2020 11:46:07 AM	Active
QID-5D-M	QID for 5 days Monthly	4 kali sehari untuk 5 hari setiap bulan	Interval	01/10/2015 09:26:55 PM	26/02/2020 11:45:41 AM	Active
D1-D7-M	OD for 7 days monthly	1 kali sehari selama 7 hari setiap bulan	Interval	24/06/2014 07:51:16 AM	26/02/2020 11:39:35 AM	Active
OD-5D-M	OD for 5 days Monthly	1 kali sehari selama 5 hari setiap bulan	Interval	01/11/2013 10:27:01 AM	26/02/2020 11:38:56 AM	Active
D1-D3-M	OD for 3 days monthly	1 kali sehari selama 3 hari setiap bulan	Interval	24/06/2014 07:48:23 AM	26/02/2020 11:38:25 AM	Active
BD-D1-D3-M	BD for 3 days monthly	2 kali sehari untuk 3 hari setiap bulan	Interval	09/02/2015 02:43:07 PM	26/02/2020 11:36:07 AM	Active
BD-5D-M	BD for 5 days monthly	2 kali sehari untuk 5 hari setiap bulan	Interval	30/06/2014 09:58:42 AM	26/02/2020 11:35:33 AM	Active
BDD1-7M	BD for 7 days monthly	2 kali sehari selama 7 hari setiap bulan	Interval	21/04/2016 04:10:49 PM	26/02/2020 11:34:52 AM	Active

Figure 3.12-1 Frequency

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Frequency'

STEP 2

Click button existing record based on below search criteria:

- Frequency Code
- Frequency Description

STEP 3

Click button to search Frequency

STEP 4

Double click on selected Drug Orderable by Discipline to view the record.

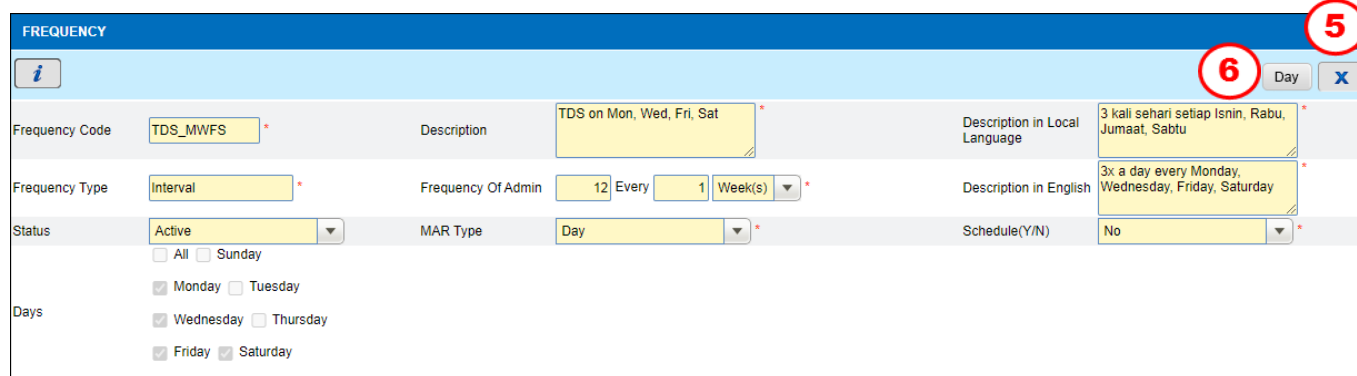


Figure 3.12-2 Frequency

STEP 5

Click on the  button and to close record.

Note

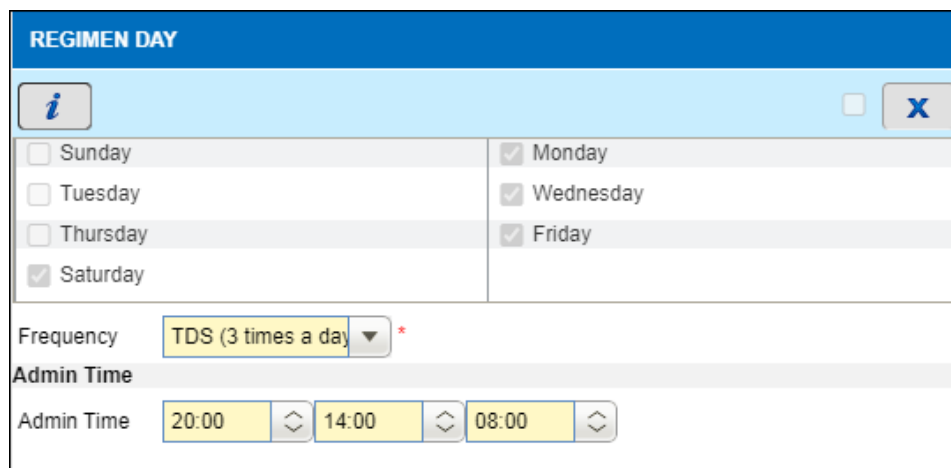
- Frequency screen will be displayed:
 - a) Frequency Code – Code for frequency term which are manage and created by HQ
 - b) Frequency Type – Code for frequency term which are manage and created by HQ
 - * Continuous – patient have to continue take the drug
 - * Frequency – rate of occurrence, the drug dosage can be increased or decreased at different time
 - * Interval – the drug taken particular period of time not continually, after a gap
 - * PRN - drug taken when needed only
 - * STAT – drug have to take immediately
 - c) Status – will be displayed condition:
 - *Active – will be defaulted to 'Active' after setup frequency by HQ. If the status is 'Active' the specific frequency will be capable and displayed to accustomed in system
 - *Inactive – Able to change status from the 'Active' to 'Inactive' by HQ. Status will be 'Inactive' the specific frequency will not be capable and will not be displayed to accustomed in system
 - d) Description – statement or an account describing about the specific frequency
 - e) Frequency Of Admin – details of how many times and have to take the drug by either one of the following terms- HQ will select and setup from the drop down list.
 - * Day (s) – how many times per day have to take drug
 - * Hour (s) – within how many hours have to take drug
 - * Minutes (s) – within how many minutes have to take drug
 - * Month (s) – within how many months have to take drug
 - * Week (s) – within how many weeks have to take drug
 - f) Days – what are the days have to take medication, HQ will select and click on the check box, following day:
 - * All – have to take drug for all days
 - * Sunday – have to take drug on Sunday
 - * Monday – have to take drug on Monday
 - * Tuesday – have to take drug on Tuesday
 - g) Description in Local Language – Statement or an account describing about the specific administration route.
 - This field shall be defined in local language (e.g. Malay)
 - h) Description in English – Statement or an account describing about the specific administration route to be printed on drug label. This field shall be defined in English
 - i) Schedule – indicate the drug have schedule, is the drop down list
 - * Yes – schedule
 - * No – not schedule
 - j) Admin Time – Time to take medication.

STEP 6

Click on  button to view regimen day

Note

Regimen day will be shown in Figure 3.12-3



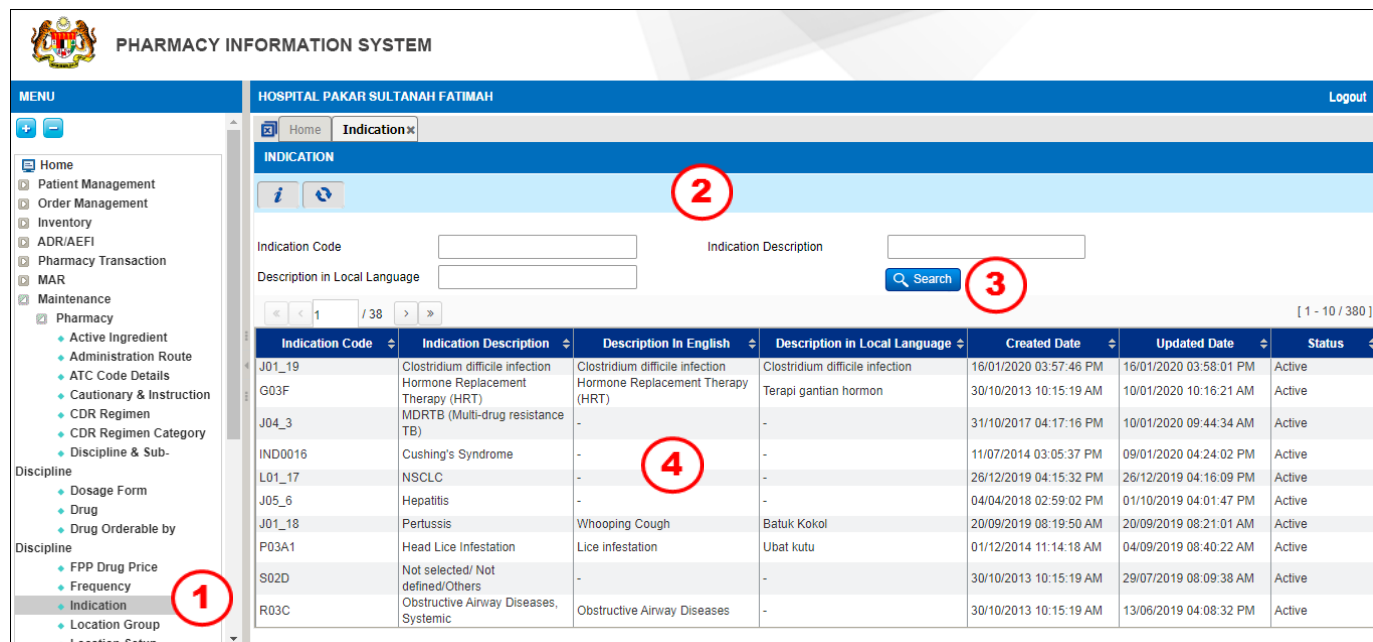
The screenshot shows a web form titled "REGIMEN DAY". It has a light blue header bar with a title bar and a close button (X). Below the header is a table with two columns for selecting days of the week. The "Frequency" dropdown is set to "TDS (3 times a day)". The "Admin Time" section shows three time slots: 20:00, 14:00, and 08:00, each with a dropdown arrow.

REGIMEN DAY	
☐ Sunday	☒ Monday
☐ Tuesday	☒ Wednesday
☐ Thursday	☒ Friday
☒ Saturday	
Frequency: TDS (3 times a day) *	
Admin Time	
Admin Time: 20:00	Admin Time: 14:00
Admin Time: 08:00	

Figure 3.12-3 Regimen Day

3.13 Indication

To view indication



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home Indication x

INDICATION

Indication Code Indication Description

Description in Local Language

[1 - 10 / 380]

Indication Code	Indication Description	Description In English	Description in Local Language	Created Date	Updated Date	Status
J01_19	Clostridium difficile infection	Clostridium difficile infection	Clostridium difficile infection	16/01/2020 03:57:46 PM	16/01/2020 03:58:01 PM	Active
G03F	Hormone Replacement Therapy (HRT)	Hormone Replacement Therapy (HRT)	Terapi gantikan hormon	30/10/2013 10:15:19 AM	10/01/2020 10:16:21 AM	Active
J04_3	MDRTB (Multi-drug resistance TB)	-	-	31/10/2017 04:17:16 PM	10/01/2020 09:44:34 AM	Active
IND0016	Cushing's Syndrome	-	-	11/07/2014 03:05:37 PM	09/01/2020 04:24:02 PM	Active
L01_17	NSCLC	-	-	26/12/2019 04:15:32 PM	26/12/2019 04:16:09 PM	Active
J05_6	Hepatitis	-	-	04/04/2018 02:59:02 PM	01/10/2019 04:01:47 PM	Active
J01_18	Pertussis	Whooping Cough	Batuk Kokoi	20/09/2019 08:19:50 AM	20/09/2019 08:21:01 AM	Active
P03A1	Head Lice Infestation	Lice infestation	Ubat kutu	01/12/2014 11:14:18 AM	04/09/2019 08:40:22 AM	Active
S02D	Not selected/ Not defined/ Others	-	-	30/10/2013 10:15:19 AM	29/07/2019 08:09:38 AM	Active
R03C	Obstructive Airway Diseases, Systemic	Obstructive Airway Diseases	-	30/10/2013 10:15:19 AM	13/06/2019 04:08:32 PM	Active

Figure 3.13-1 Indication

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Indication'

STEP 2

Click button to search existing record based on below search criteria:

- Indication Code
- Indication Description
- Description in Local Language

STEP 3

Click search button to find Indication

STEP 4

Double click on selected Indication to view the record

INDICATION	
<i>i</i> 5 X	
Indication Code	G03F *
Indication Description	Hormone Replacement Therapy (HRT) *
Description In English	Hormone Replacement Therapy (HRT) *
Description In Local Language	Terapi gantian hormon *
Status	Active ▼

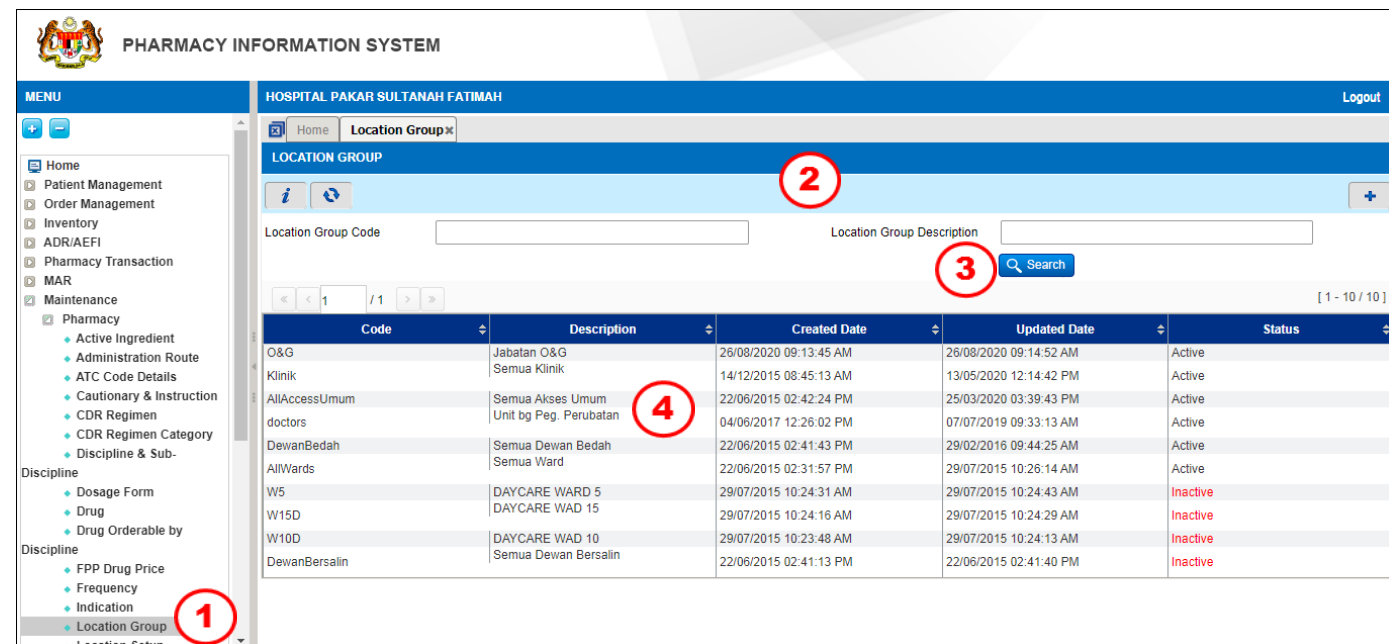
Figure 3.13-2 Frequency

STEP 5

Click on the  button and to close record

3.14 Location group

To view and edit location group



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home Location Groupx

LOCATION GROUP

Location Group Code: Location Group Description:

[1 - 10 / 10]

Code	Description	Created Date	Updated Date	Status
O&G	Jabatan O&G	26/08/2020 09:13:45 AM	26/08/2020 09:14:52 AM	Active
Klinik	Semua Klinik	14/12/2015 08:45:13 AM	13/05/2020 12:14:42 PM	Active
AllAccessUmum	Semua Akses Umum	22/06/2015 02:42:24 PM	25/03/2020 03:39:43 PM	Active
doctors	Unit bg Peg. Perubatan	04/06/2017 12:26:02 PM	07/07/2019 09:33:13 AM	Active
DewanBedah	Semua Dewan Bedah	22/06/2015 02:41:43 PM	29/02/2016 09:44:25 AM	Active
AllWards	Semua Ward	22/06/2015 02:31:57 PM	29/07/2015 10:26:14 AM	Active
W5	DAYCARE WARD 5	29/07/2015 10:24:31 AM	29/07/2015 10:24:43 AM	Inactive
W15D	DAYCARE WAD 15	29/07/2015 10:24:16 AM	29/07/2015 10:24:29 AM	Inactive
W10D	DAYCARE WAD 10	29/07/2015 10:23:48 AM	29/07/2015 10:24:13 AM	Inactive
DewanBersalin	Semua Dewan Bersalin	22/06/2015 02:41:13 PM	22/06/2015 02:41:40 PM	Inactive

Figure 3.14-1 Location Group

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Location Group'

STEP 2

Click button to search existing record based on below search criteria:

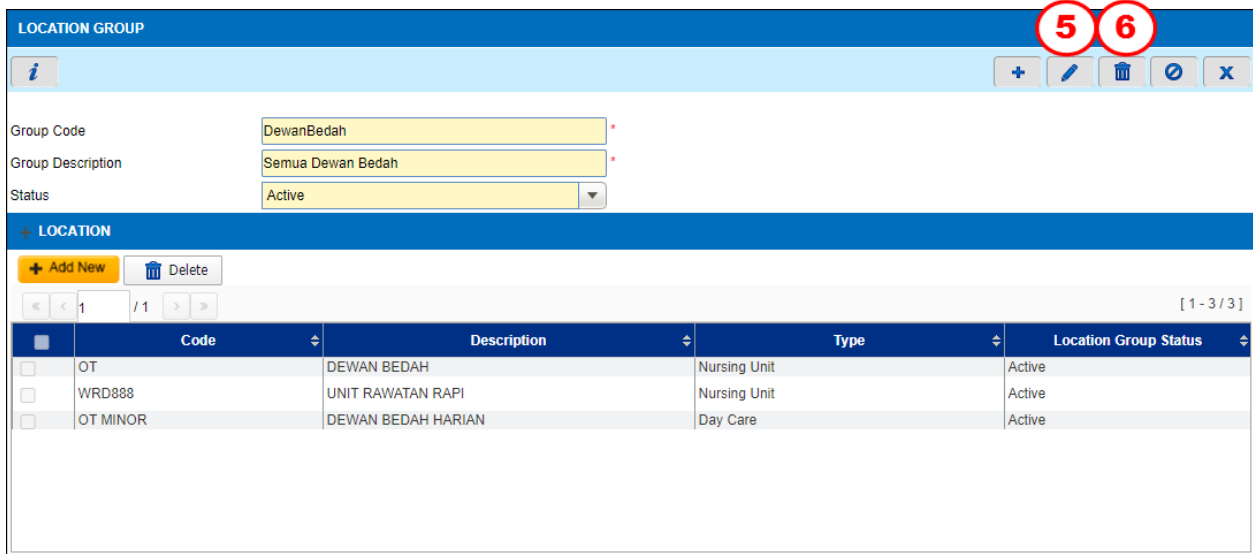
- Location Group Code
- Location Group Description

STEP 3

Click search button to find Location Group

STEP 4

Double click on selected Location Group to view the record



LOCATION GROUP

Group Code: DewanBedah

Group Description: Semua Dewan Bedah

Status: Active

LOCATION

+ Add New Delete

1 / 1 [1 - 3 / 3]

	Code	Description	Type	Location Group Status
☐	OT	DEWAN BEDAH	Nursing Unit	Active
☐	WRD888	UNIT RAWATAN RAPI	Nursing Unit	Active
☐	OT MINOR	DEWAN BEDAH HARIAN	Day Care	Active

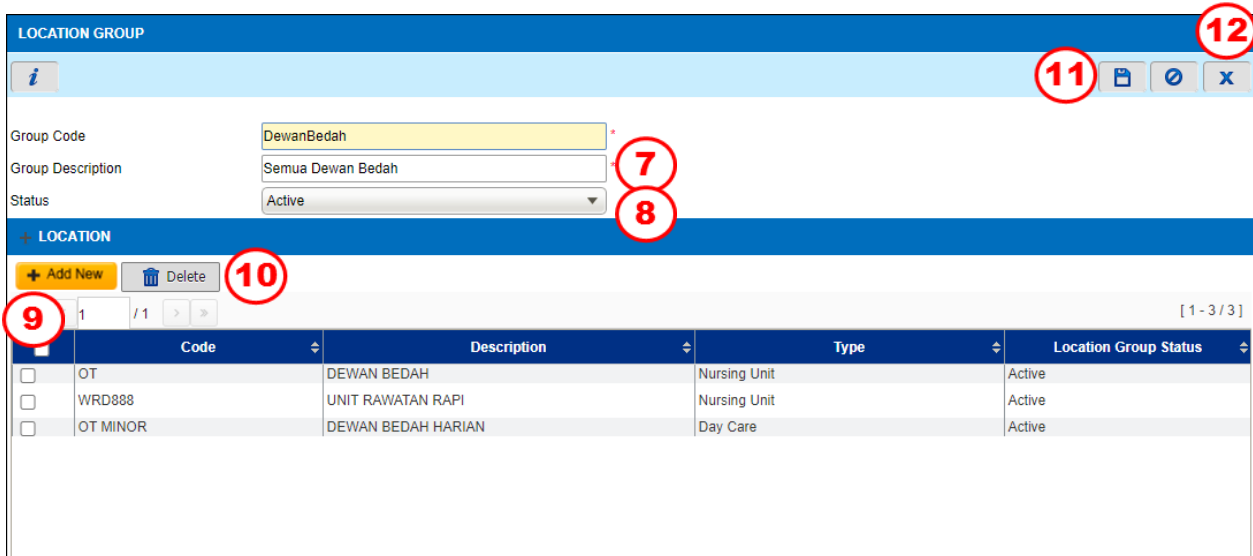
Figure 3.14-2 Location Group

STEP 5

Click  button in order to edit info

STEP 6

Click on  button to delete the record thus inactive the location group



LOCATION GROUP

Group Code: DewanBedah

Group Description: Semua Dewan Bedah

Status: Active

LOCATION

+ Add New Delete

1 / 1 [1 - 3 / 3]

	Code	Description	Type	Location Group Status
☐	OT	DEWAN BEDAH	Nursing Unit	Active
☐	WRD888	UNIT RAWATAN RAPI	Nursing Unit	Active
☐	OT MINOR	DEWAN BEDAH HARIAN	Day Care	Active

Figure 3.14-3 Location Group

STEP 7

Change group description in putting new input into the Group Description text box

STEP 8

Click on status to change

- Active – make the group location available
- Inactive – Make the group for the location not available

STEP 9

Click Add New to add new location into the group

STEP 10

Click delete to remove unwanted location in the group

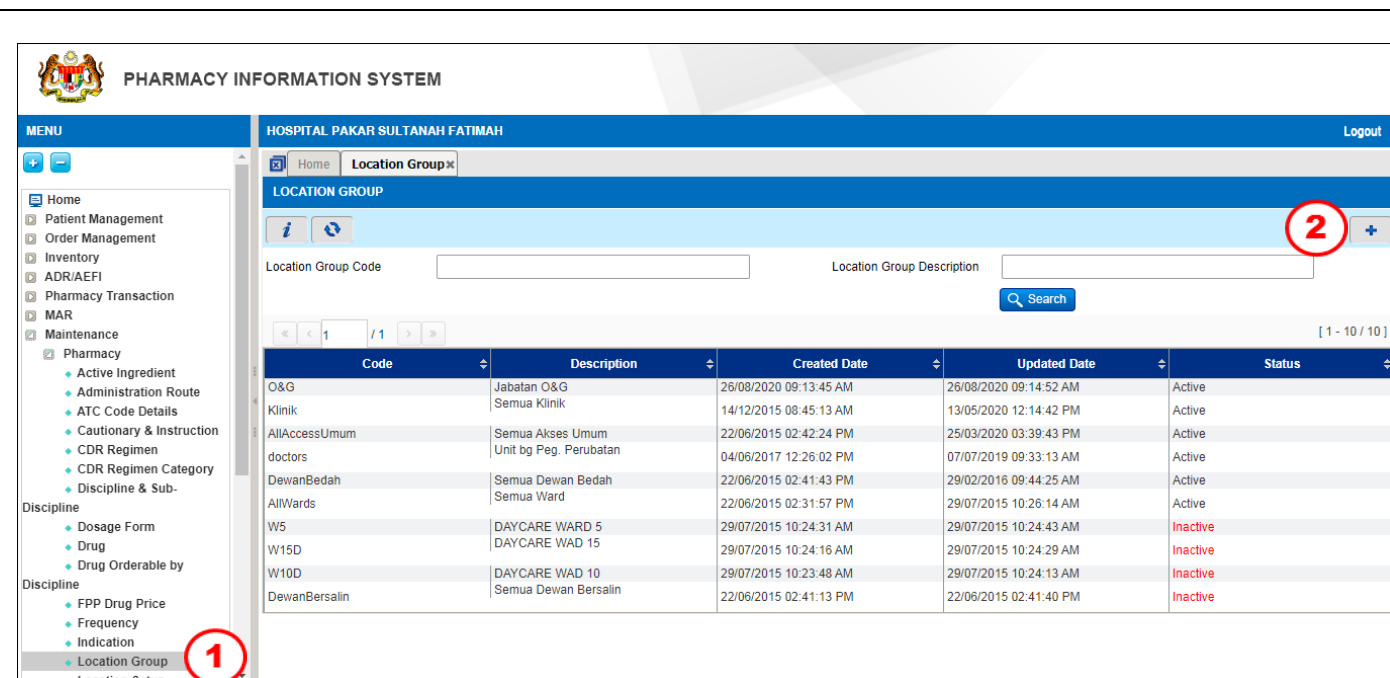
STEP 11

Click  button to save and complete the process

STEP 12

Click on the  button and to close record.

To add new group location



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home Location Groupx

LOCATION GROUP

Location Group Code: [] Location Group Description: [] Search

[1 - 10 / 10]

Code	Description	Created Date	Updated Date	Status
O&G	Jabatan O&G	26/08/2020 09:13:45 AM	26/08/2020 09:14:52 AM	Active
Klinik	Semua Klinik	14/12/2015 08:45:13 AM	13/05/2020 12:14:42 PM	Active
AllAccessUrmum	Semua Akses Umum	22/06/2015 02:42:24 PM	25/03/2020 03:39:43 PM	Active
doctors	Unit bg Peg. Perubatan	04/06/2017 12:26:02 PM	07/07/2019 09:33:13 AM	Active
DewanBedah	Semua Dewan Bedah	22/06/2015 02:41:43 PM	29/02/2016 09:44:25 AM	Active
AllWards	Semua Ward	22/06/2015 02:31:57 PM	29/07/2015 10:26:14 AM	Active
W5	DAYCARE WARD 5	29/07/2015 10:24:31 AM	29/07/2015 10:24:43 AM	Inactive
W15D	DAYCARE WAD 15	29/07/2015 10:24:16 AM	29/07/2015 10:24:29 AM	Inactive
W10D	DAYCARE WAD 10	29/07/2015 10:23:48 AM	29/07/2015 10:24:13 AM	Inactive
DewanBersalin	Semua Dewan Bersalin	22/06/2015 02:41:13 PM	22/06/2015 02:41:40 PM	Inactive

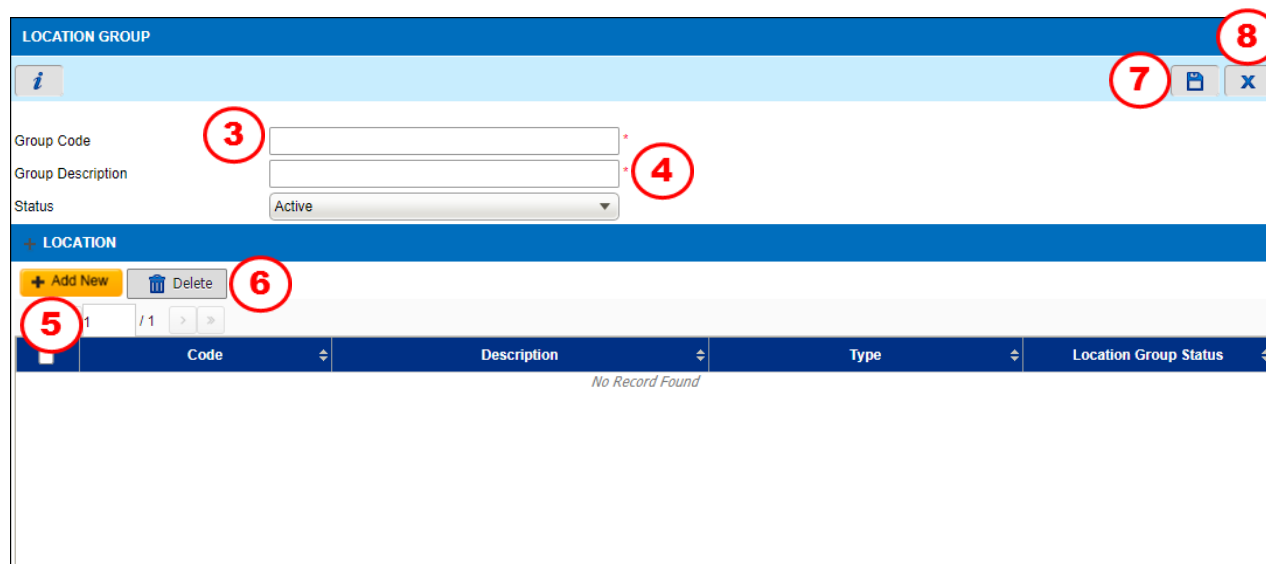
Figure 3.14-4 Location Group

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Location Group'.

STEP 2

Click on  button to add new record



LOCATION GROUP

Group Code: [] Group Description: [] Status: Active

LOCATION

+ Add New Delete

Code	Description	Type	Location Group Status
No Record Found			

Figure 3.14-5 Location Group

STEP 3

Insert new Group Code

STEP 4

Insert new Group Description

STEP 5

Click  to add new location to the group

STEP 6

Click  to remove unwanted location in the group

STEP 7

Click  button to save and complete the process.

STEP 8

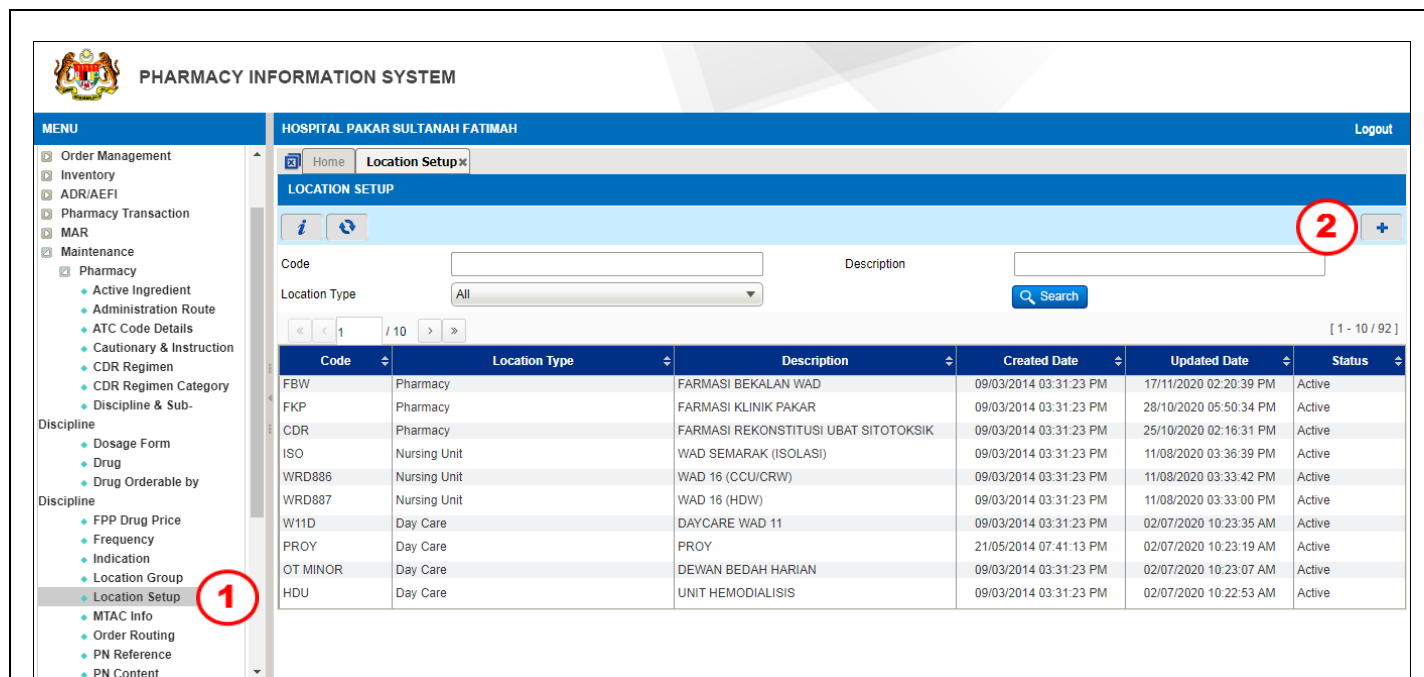
Click on the  button and to close record.

3.15 Location Setup

Location is distinguished by 2 criteria, “prescribed location” and “dispensing location”. User able to view existing record and create new record for location setup at facility level.

To add new settings

These settings are designed to add new location that issues prescription and carry out dispensing. For example, new ward, clinic, department and dispensing counter.



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Location Setup x

LOCATION SETUP

Code: [] Description: []

Location Type: [All]

[Search]

[1 - 10 / 92]

Code	Location Type	Description	Created Date	Updated Date	Status
FBW	Pharmacy	FARMASI BEKALAN WAD	09/03/2014 03:31:23 PM	17/11/2020 02:20:39 PM	Active
FKP	Pharmacy	FARMASI KLINIK PAKAR	09/03/2014 03:31:23 PM	28/10/2020 05:50:34 PM	Active
CDR	Pharmacy	FARMASI REKONSTITUSI UBAT SITOTOKSIK	09/03/2014 03:31:23 PM	25/10/2020 02:16:31 PM	Active
ISO	Nursing Unit	WAD SEMARAK (ISOLASI)	09/03/2014 03:31:23 PM	11/08/2020 03:36:39 PM	Active
WRD886	Nursing Unit	WAD 16 (CCU/CRW)	09/03/2014 03:31:23 PM	11/08/2020 03:33:42 PM	Active
WRD887	Nursing Unit	WAD 16 (HDW)	09/03/2014 03:31:23 PM	11/08/2020 03:33:00 PM	Active
W11D	Day Care	DAYCARE WAD 11	09/03/2014 03:31:23 PM	02/07/2020 10:23:35 AM	Active
PROY	Day Care	PROY	21/05/2014 07:41:13 PM	02/07/2020 10:23:19 AM	Active
OT MINOR	Day Care	DEWAN BEDAH HARIAN	09/03/2014 03:31:23 PM	02/07/2020 10:23:07 AM	Active
HDU	Day Care	UNIT HEMODIALISIS	09/03/2014 03:31:23 PM	02/07/2020 10:22:53 AM	Active

Figure 3.15-1 Location Setup Listing Page

STEP 1

Click on ‘Maintenance’ menu followed by ‘Pharmacy’ sub-menu and click on Location Setup

STEP 2

Click on the  button to create new Location Setup

LOCATION SETUP

Location Type

Code

Unit

Start Working Hours

End Working Hours

Auto Generate Queue No

☐

Visit Type

☐ Outpatient
☐ Inpatient
☐ Emergency
☐ Walk-In
☐ Daycare
☐ SPUB
☐ outsource

Default Language for Drug Label

Malay

Dispense Location Code in Label

Fill List Supply Day

Dispense Location

☐

Description

Status

Active

Total Bed No.

Total Full Time Pharmacist

Total Part Time Pharmacist

Working Days

☐ Sunday
☐ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday
☐ Saturday

Dispensing Flow

Dispense Method

UoU

DEPARTMENT

+ Add New

Delete

Reset Default Department

<<

<

1

/ 1

>

>>

Department Code	Department Name	Default Department
No record found		

QUEUE MANAGEMENT

Normal	0000
Express	0000
Special	0000
Others	0000

FREQUENCY SCHEDULE

Frequency Code	Admin Time	☐
----------------	------------	--------------------------

Figure 3.15-2 Location Setup

STEP 3

Click on the applicable field as per below;

Note

- User can select location Type, Status and Dispense Location.
- Location Setup screen consists of 6 sections which are:

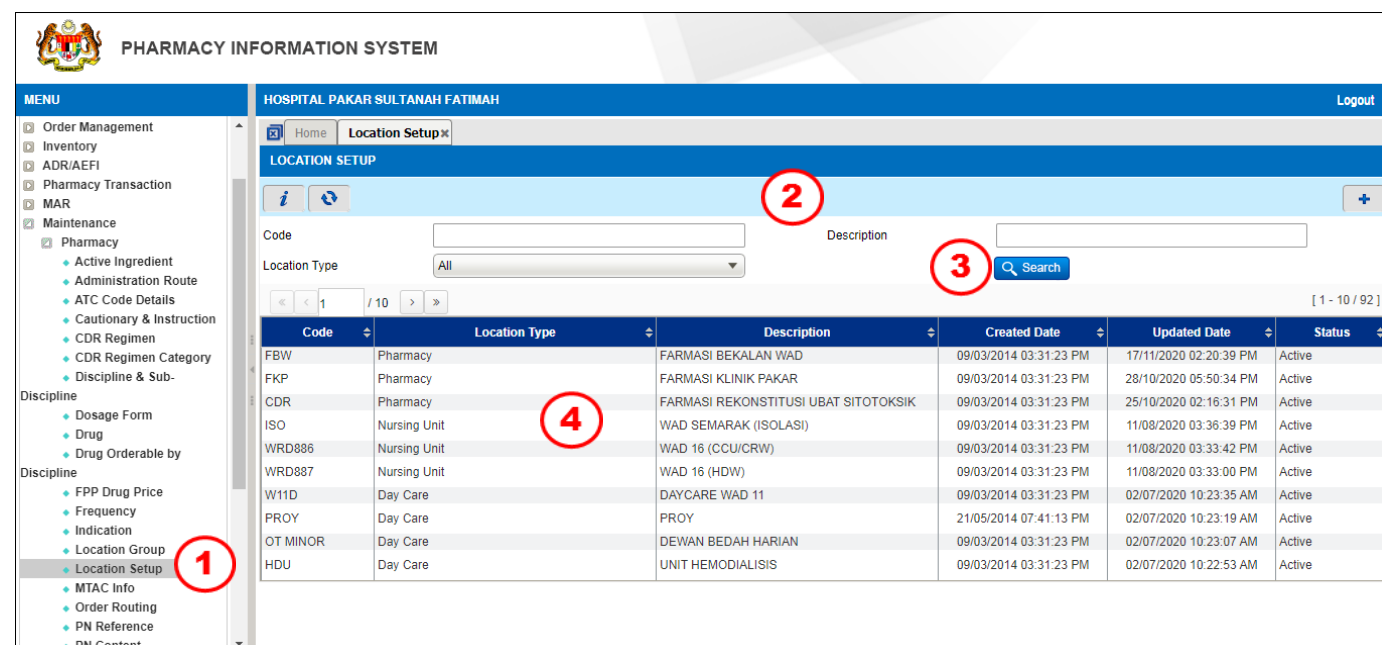
Section	Column	Description	Details
Location Setup	Location Type	Required for reporting purposes e.g.; Nursing Unit, Clinic, ER, Day Care, Pharmacy.	Able to filter and search record(s)
	Code	Code that justified by user such as abbreviation of Location Name.	Fill with alphanumeric character (letter, number, symbol)
	Description	Location Name.	Fill with alphanumeric character (letter, number, symbol)
	Dispense Location	Tick the checkbox and select either Inpatient or Outpatient for location where pharmacist do dispense online. e.g.; Outpatient pharmacy counter, Inpatient Pharmacy Counter etc.	Able to filter and search record(s)
	Unit	Set which requester unit's stocks used for dispensing purposes.	Display existing Data
	Status	User able to select either to inactive or activate for added location	Display existing Data
	Start Working	Setting that required for appointment function such	

	Hours and End Working Hours	as medication counselling module	
	Total Bed no	Set quantity maximum bed in a ward	
	Total Full Time Pharmacist	Total number of in-house pharmacists	
	Total Part Time Pharmacist	Total number of external pharmacists working on part time basis	
	Auto Generate Queue No	System auto-generate queue number after transcribing and use PHIS QMS device if check box is ticked	
	Visit Type	Uses to populate for patient registration and reports	
	Working Days	Setting that required for appointment uses	
	Default Language for Drug Label	Set for the location's drug label language	
	Dispense Flow	Set dispense flow either multistage dispensing or single stage dispensing	
	Dispense Location Code in Label	Set for dispense location code appear in label	
	Dispense Method	Uses to select dispense method based on location type either UDS, UoU or None	
	Fill List Supply Day	Set for fill list supply day	
Department	Department	Set of Department that related to the location, for patient registration purposes.	
Inpatient	Default Dispense Duration	Default supply duration, eg; if facility practiced UOD then set as 1 day. *This section only showed when Dispensing Location set.	
Outpatient	Allow to modify order	User able to modify the order after confirmed order.	
Queue Management		Set que start from which number according to category of ques e.g.; SPECIAL set starts from 3000.	
Frequency Schedule		Sets of serving time for MAR function. User able to change the defaulted serving time based on frequency of ordered drug. E.g.; Location pediatrics ward for OD defaulted is 8:00 am, user can change to 6:00am.	

Table 3.15-1

To view and edit existing settings

These settings are required for changes in Location's name and other settings.



Code	Location Type	Description	Created Date	Updated Date	Status
FBW	Pharmacy	FARMASI BEKALAN WAD	09/03/2014 03:31:23 PM	17/11/2020 02:20:39 PM	Active
FKP	Pharmacy	FARMASI KLINIK PAKAR	09/03/2014 03:31:23 PM	28/10/2020 05:50:34 PM	Active
CDR	Pharmacy	FARMASI REKONSTITUSI UBAT SITOTOKSIK	09/03/2014 03:31:23 PM	25/10/2020 02:16:31 PM	Active
ISO	Nursing Unit	WAD SEMARAK (ISOLASI)	09/03/2014 03:31:23 PM	11/08/2020 03:36:39 PM	Active
WRD886	Nursing Unit	WAD 16 (CCU/CRW)	09/03/2014 03:31:23 PM	11/08/2020 03:33:42 PM	Active
WRD887	Nursing Unit	WAD 16 (HDW)	09/03/2014 03:31:23 PM	11/08/2020 03:33:00 PM	Active
W11D	Day Care	DAYCARE WAD 11	09/03/2014 03:31:23 PM	02/07/2020 10:23:35 AM	Active
PROY	Day Care	PROY	21/05/2014 07:41:13 PM	02/07/2020 10:23:19 AM	Active
OT MINOR	Day Care	DEWAN BEDAH HARIAN	09/03/2014 03:31:23 PM	02/07/2020 10:23:07 AM	Active
HDU	Day Care	UNIT HEMODIALISIS	09/03/2014 03:31:23 PM	02/07/2020 10:22:53 AM	Active

Figure 3.15-3 Location Setup

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' sub-menu and click on Location Setup

STEP 2

Search by field

No	Field	Description	Remarks
a	Code	Location abbreviation/code decided by facility. These codes are used for system transactional basis and will not display in any report or	Able to filter and search record(s)
b	Description	Location name that created by data admin to identify patient's treatment location and Drug Dispensing Counter	Able to filter and search record(s)
c	Location Type	By Drug's active ingredient	Able to filter and search record(s)

STEP 3

Click on the  button after input criteria as per 3.15-3 Location Setup

STEP 4

Double click on selected data

LOCATION SETUP
5

Location Type	Pharmacy	Dispense Location	Outpatient
Code	FKP	Description	FARMASI KLINIK PAKAR
Unit	FKP FILLING STATION	Status	Active
Start Working Hours	07:30 AM	Total Bed No.	0
End Working Hours	05:00 PM	Total Full Time Pharmacist	6
Auto Generate Queue No	☐	Total Part Time Pharmacist	
Visit Type	☐ Outpatient ☐ Emergency ☐ Daycare ☐ outsource	☐ Inpatient ☒ Walk-In ☒ SPUB	☒ Sunday ☒ Tuesday ☒ Thursday ☒ Saturday
Default Language for Drug Label	Malay	Dispensing Flow	Multi Stage Dispensing
Dispense Location Code in Label		Dispense Method	
Fill List Supply Day			

DEPARTMENT
[1 - 1 / 1]

Add New
 Delete
 Reset Default Department

#	Department Code	Department Name	Default Department
1	28	Pharmacy	○

Figure 3.15-4 Location Setup

STEP 5

Click button “Edit Record” as per Figure 3.15-4 Location Setup

LOCATION SETUP

6
7

Location Type	Pharmacy	Dispense Location	Outpatient
Code	FKP	Description	FARMASI KLINIK PAKAR
Unit	FKP FILLING STATION	Status	Active
Start Working Hours	07:30 AM	Total Bed No.	0
End Working Hours	05:00 PM	Total Full Time Pharmacist	6
Auto Generate Queue No	☐	Total Part Time Pharmacist	
Visit Type	☐ Outpatient ☒ Emergency ☐ Daycare ☐ outsource	☐ Inpatient ☒ Walk-In ☒ SPUB	☒ Sunday ☒ Tuesday ☒ Thursday ☒ Saturday
Default Language for Drug Label	Malay	Dispensing Flow	Multi Stage Dispensing
Dispense Location Code in Label		Dispense Method	
Fill List Supply Day			

DEPARTMENT
[1 - 1 / 1]

Add New
 Delete
 Reset Default Department

#	Department Code	Department Name	Default Department
1	28	Pharmacy	○

Figure 3.15-5 Location Setup

Note

- All Configuration is changeable by user and details are as per below;

Section	Column	Description	Details
Location Setup	Location Type	Required for reporting purposes e.g.; Nursing Unit, Clinic, ER, Day Care, Pharmacy.	Able to filter and search record(s)
	Code	Code that justified by user such as abbreviation of	Fill with alphanumeric

		Location Name.	character (letter, number, symbol)
	Description	Location Name.	Fill with alphanumeric character (letter, number, symbol)
	Dispense Location	Tick the checkbox and select either Inpatient or Outpatient for location where pharmacist do dispense online. e.g.; Outpatient pharmacy counter, Inpatient Pharmacy Counter etc.	Able to filter and search record(s)
	Unit	Set which requester unit's stocks used for dispensing purposes.	Display existing Data
	Status	User able to select either to inactive or activate for added location	Display existing Data
	Start Working Hours and End Working Hours	Setting that required for appointment function such as medication counselling module	
	Total Bed no	Set quantity maximum bed in a ward	
	Total Full Time Pharmacist	Total number of in-house pharmacists	
	Total Part Time Pharmacist	Total number of external pharmacists working on part time basis	
	Auto Generate Queue No	System auto-generate queue number after transcribing and use PHIS QMS device if check box is ticked	
	Visit Type	Uses to populate for patient registration and reports	
	Working Days	Setting that required for appointment uses	
	Default Language for Drug Label	Set for the location's drug label language	
	Dispense Flow	Set dispense flow either multistage dispensing or single stage dispensing	
	Dispense Location Code in Label	Set for dispense location code appear in label	
	Dispense Method	Uses to select dispense method based on location type either UDS, UoU or None	
	Fill List Supply Day	Set for fill list supply day	
Queue Management		Set que start from which number according to category of ques e.g.; SPECIAL set starts from 3000.	
Frequency Schedule		Sets of serving time for MAR function. User able to change the defaulted serving time based on frequency of ordered drug. E.g.; Location pediatrics ward for OD defaulted is 8:00 am, user can change to 6:00am.	

Table 3.14-2

STEP 6

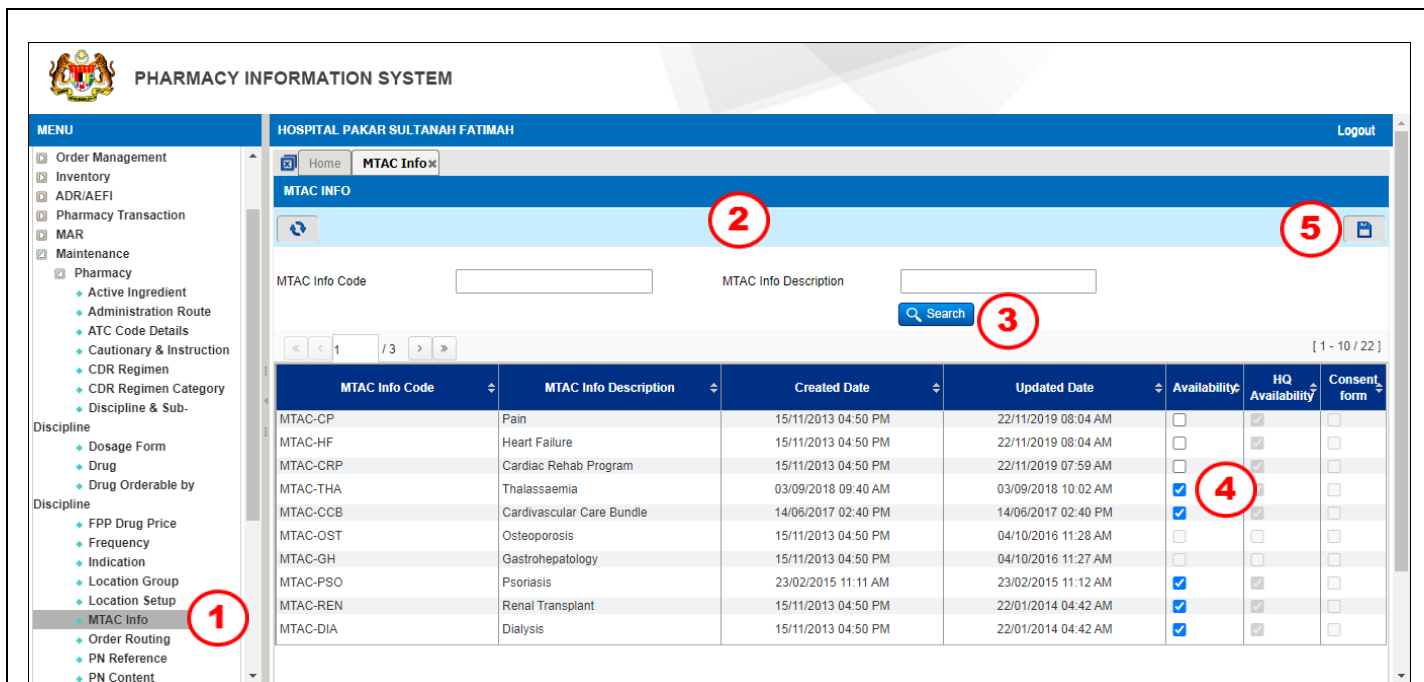
Click  to save edited setup as per Figure 3.14-5 Location Setup

STEP 7

Click  to close the pop-up box as per Figure 3.14-5 Location Setup

3.16 MTAC Info

To view and edit MTAC Info



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home MTAC Info

MTAC INFO

MTAC Info Code MTAC Info Description

[1 - 10 / 22]

MTAC Info Code	MTAC Info Description	Created Date	Updated Date	Availability	HQ Availability	Consent form
MTAC-CP	Pain	15/11/2013 04:50 PM	22/11/2019 08:04 AM	☐	☒	☐
MTAC-HF	Heart Failure	15/11/2013 04:50 PM	22/11/2019 08:04 AM	☐	☒	☐
MTAC-CRP	Cardiac Rehab Program	15/11/2013 04:50 PM	22/11/2019 07:59 AM	☐	☒	☐
MTAC-THA	Thalassaemia	03/09/2018 09:40 AM	03/09/2018 10:02 AM	☒	☒	☐
MTAC-CCB	Cardiovascular Care Bundle	14/06/2017 02:40 PM	14/06/2017 02:40 PM	☒	☒	☐
MTAC-OST	Osteoporosis	15/11/2013 04:50 PM	04/10/2016 11:28 AM	☐	☐	☐
MTAC-GH	Gastrohepatology	15/11/2013 04:50 PM	04/10/2016 11:27 AM	☐	☐	☐
MTAC-PSO	Psoriasis	23/02/2015 11:11 AM	23/02/2015 11:12 AM	☒	☒	☐
MTAC-REN	Renal Transplant	15/11/2013 04:50 PM	22/01/2014 04:42 AM	☒	☒	☐
MTAC-DIA	Dialysis	15/11/2013 04:50 PM	22/01/2014 04:42 AM	☒	☒	☐

Figure 3.16-1 MTAC Info

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'MTAC Info'

STEP 2

Search record by inserting details

- MTAC Info Code
- MTAC Info Description

STEP 3

Click Button to find the record

STEP 4

Click applicable checkbox based on availability of the MTAC service in Facility.

STEP 5

Click button to save and complete the process

3.17 Order Routing

This setup is to manage dispensing counter that will prepare the order from prescribing location. Data Admin will control the setup according to location of where the patient registered.

To add new setting

Data admin are required to configure this setting if there is new location is created. This is to ensure orders from the Doctor reflected on pharmacist screen.

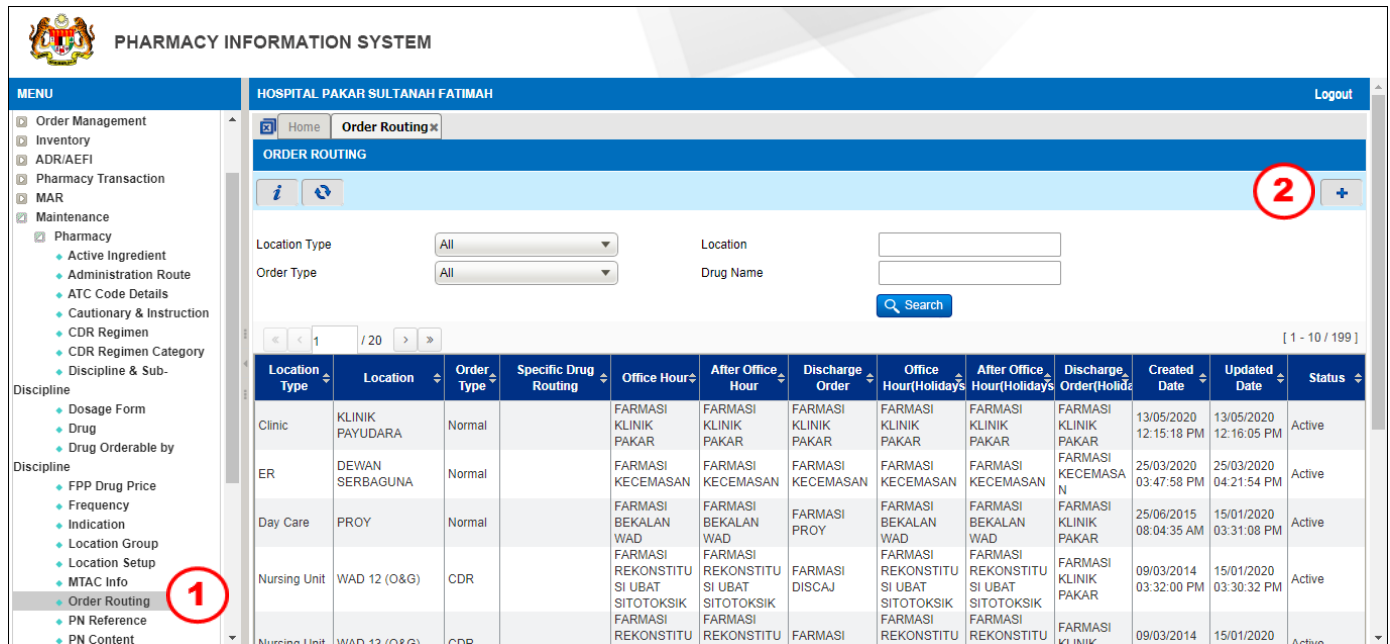


Figure 3.17-1 Order Routing

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' sub-menu and click on Order Routing

STEP 2

Click on the  button to create new Location Setup

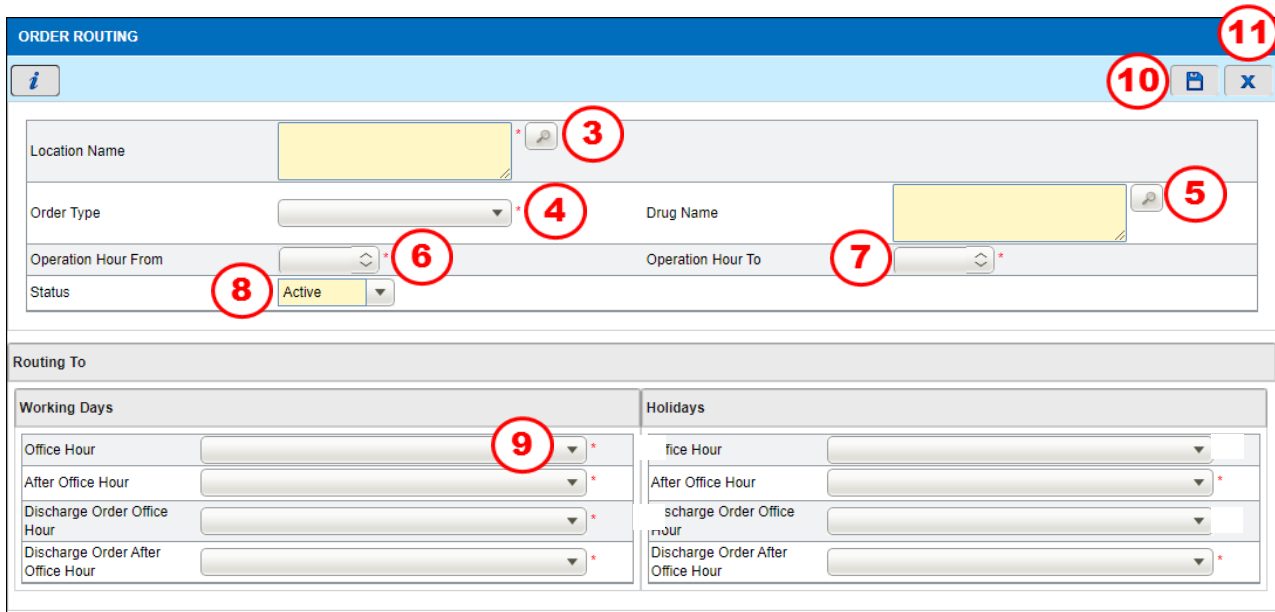


Figure 3.17-2 Order Routing

STEP 3

Click on  button to search for location

STEP 4

Click on the drop down list for order types

- CDR
- IV
- Normal
- PN
- Radiopharmaceuticals
- TDM

STEP 5

Click on  button to search drug that required to be controlled from ordering [OPTIONAL]

STEP 6

Click to set location`s operation hour [start time]

STEP 7

Click to set location`s operation hour [ends time]

STEP 8

Click to set order routing setup availability

STEP 9

Click to set routing to

Working day	
Office hour	Where the drug will dispensed during Office hour
After office hour	Where the drug will dispensed After office hour
Discharge Order Office Hour	Where the drug will dispensed during office hour
Discharge Order After office hour	Where the drug will dispensed after office hour
Holiday	
Office hour	Where the drug will flow Office hour during holiday
After office hour	Where the drug will flow After office hour during holiday
Discharge Order Office Hour	Where the drug will dispensed during office hour on holiday
Discharge Order After office hour	Where the drug will dispensed after office hour during holiday

STEP 10

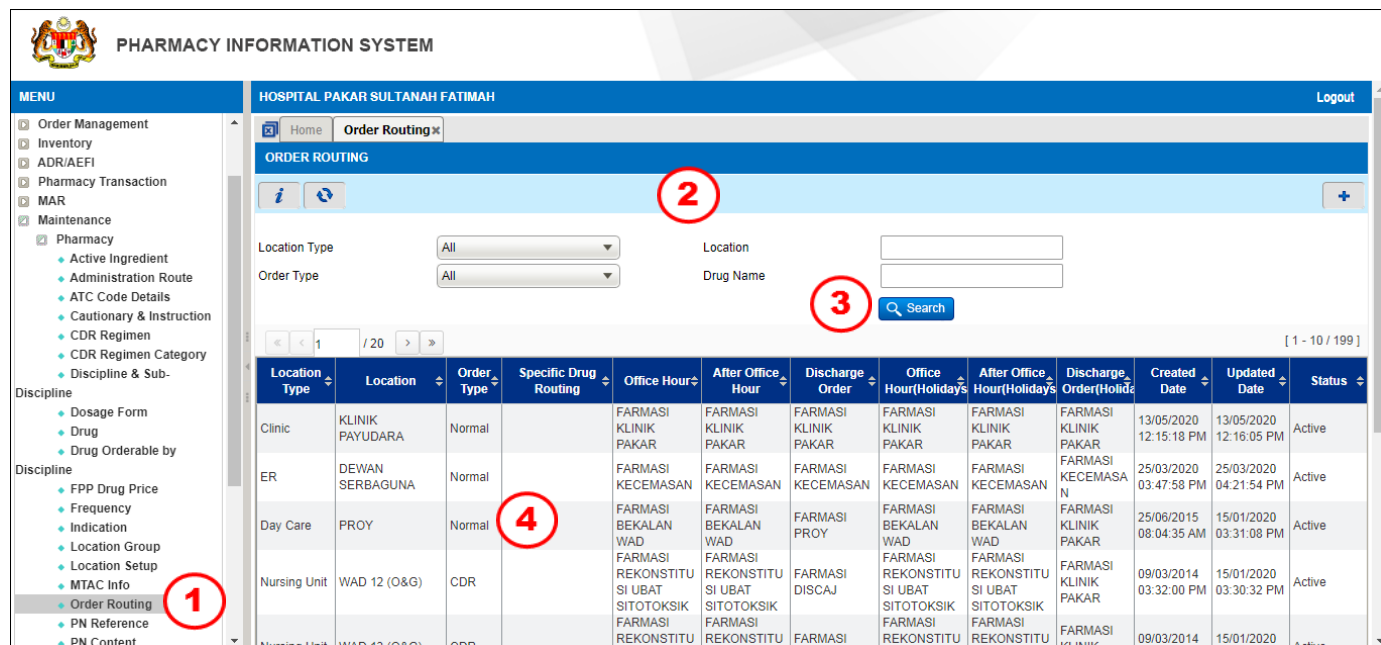
Click  to save edited setup as per figure 3.16-2 Order Routing

STEP 11

Click  to close the pop-up box as per figure 3.16-2 Order Routing

To view and edit existing record

Data admin able to edit existing setting if facility happens to change dispensing location for certain location. Due to certain reasons such as counter dispensing closed due renovation or etc.



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Order Routing

ORDER ROUTING

Location Type: All Location: Location
Order Type: All Drug Name: Search

1 / 20 [1 - 10 / 199]

Location Type	Location	Order Type	Specific Drug Routing	Office Hour	After Office Hour	Discharge Order	Office Hour(Holidays)	After Office Hour(Holidays)	Discharge Order(Holidays)	Created Date	Updated Date	Status
Clinic	KLINIK PAYUDARA	Normal		FARMASI KLINIK PAKAR	FARMASI KLINIK PAKAR	FARMASI KLINIK PAKAR	FARMASI KLINIK PAKAR	FARMASI KLINIK PAKAR	FARMASI KLINIK PAKAR	13/05/2020 12:15:18 PM	13/05/2020 12:16:05 PM	Active
ER	DEWAN SERBAGUNA	Normal		FARMASI KECEMASAN	FARMASI KECEMASAN	FARMASI KECEMASAN	FARMASI KECEMASAN	FARMASI KECEMASAN	FARMASI KECEMASAN	25/03/2020 03:47:58 PM	25/03/2020 04:21:54 PM	Active
Day Care	PROY	Normal		FARMASI BEKALAN WAD	FARMASI BEKALAN WAD	FARMASI PROY	FARMASI BEKALAN WAD	FARMASI BEKALAN WAD	FARMASI KLINIK PAKAR	25/06/2015 08:04:35 AM	15/01/2020 03:31:08 PM	Active
Nursing Unit	WAD 12 (O&G)	CDR		FARMASI REKONSTITU SI UBAT SITOTOKSIK	FARMASI REKONSTITU SI UBAT SITOTOKSIK	FARMASI DISCAJ	FARMASI REKONSTITU SI UBAT SITOTOKSIK	FARMASI REKONSTITU SI UBAT SITOTOKSIK	FARMASI KLINIK PAKAR	09/03/2014 03:32:00 PM	15/01/2020 03:30:32 PM	Active
Nursing Unit	WAD 13 (O&G)	CDR		FARMASI REKONSTITU	FARMASI REKONSTITU	FARMASI	FARMASI REKONSTITU	FARMASI REKONSTITU	FARMASI KLINIK	09/03/2014	15/01/2020	Active

Figure 3.17-3 Order Routing

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' sub-menu and click on Order Routing

STEP 2

Search by field

No	Field	Description	Remarks
a	Location Type	Able to filter according to - All - Clinic - Daycare - ER - Nursing Unit - Pharmacy	Able to filter and search record(s) according to drop down list data
b	Order Type	Able to filter according to order type which differentiate during order - All - CDR - IV - Normal - PN - Radiopharmaceuticals	Able to filter and search record(s) according to drop down list data
c	Location	Location name that created by data admin to identify patient's treatment location and Drug Dispensing Counter	Able to filter and search record(s)
d	Drug Name	Search by drug name that already setup controlled by Location and Order Type.	Able to filter and search record(s)

STEP 3

Click on the  button after input criteria as per Figure 3.16-3 Location Setup

STEP 4

Double click on selected data

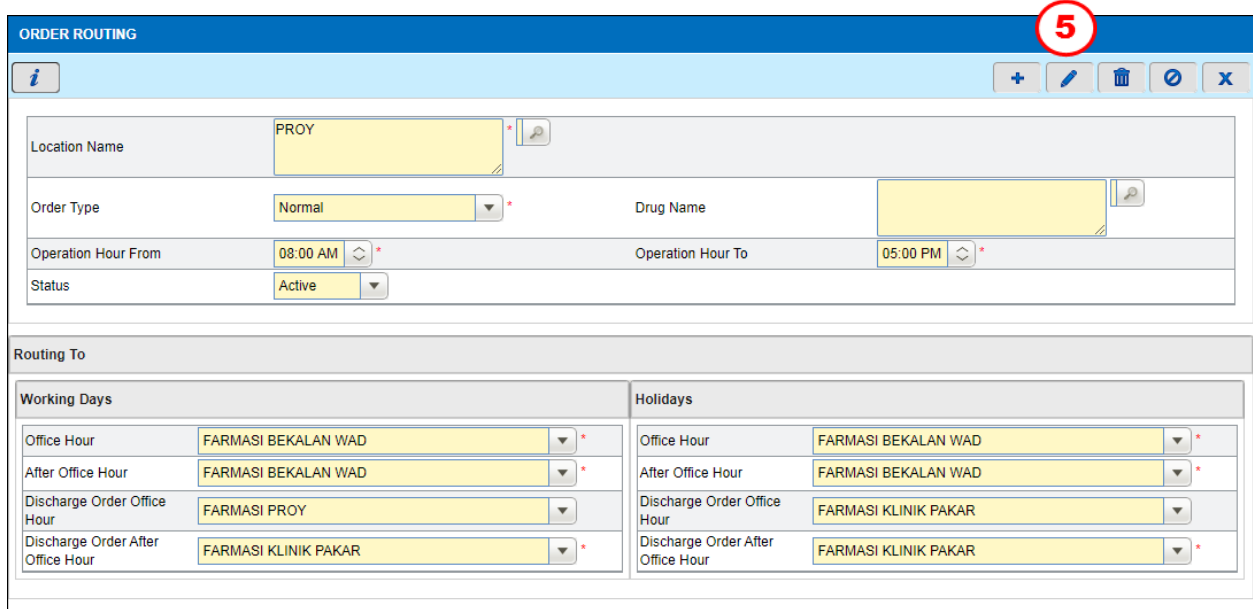


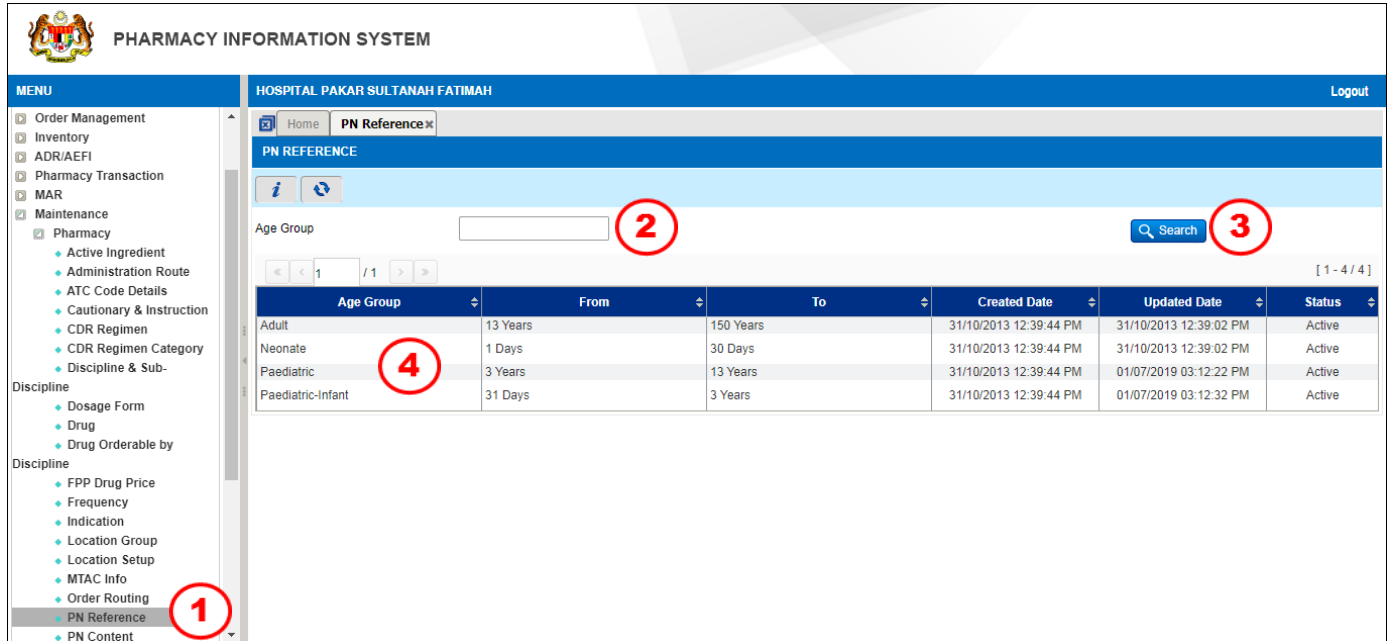
Figure 3.17-4 Order Routing

STEP 5

Click button  "Edit Record" as per Figure 3.17-4 Order Routing

3.18 PN Reference

To view existing record



PHARMACY INFORMATION SYSTEM

MENU

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- MAR
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 - CDR Regimen Category
 - Discipline & Sub-Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup
 - MTAC Info
 - Order Routing
 - PN Reference**
 - PN Content

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home PN Reference

PN REFERENCE

Age Group

< 1 / 1 >

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

Figure 3.18-1 PN Constituent Reference Range

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'PN Constituents Reference Range'

STEP 2

Search record by inserting detail in Age Group

STEP 3

Click on the button to find the record

STEP 4

Click on Age group existed record to open

CONSTITUENTS REFERENCE RANGE

5
X

Age Group Adult ▼

From 13 Years ▼ To 150 Years ▼

MACRONUTRIENTS						
Protein	Min	0.5	Max	2	Avg	1.25
Carbohydrate	Min	3	Max	5	Avg	4
Lipid	Min	0.5	Max	2	Avg	1.25

ELECTROLYTES						
Sodium	Min	1	Max	2	Avg	1.5
Potassium	Min	0.7	Max	1.5	Avg	1.1
Chloride	Min	1.3	Max	2	Avg	1.65
Acetate	Min	0	Max	0	Avg	0
Phosphate	Min	0.5	Max	0.7	Avg	0.6
Magnesium	Min	0.05	Max	0.15	Avg	0.1
Calcium	Min	0.1	Max	0.15	Avg	0.12

TRACE ELEMENTS						
Trace Element Solution	Min	0	Max	10	Avg	5

VITAMINS						
Vitamin Solution	Min	0	Max	10	Avg	5
Fat Soluble	Min	0	Max	10	Avg	5
Water Soluble	Min	0	Max	10	Avg	5

GLUTAMIN						
Glutamin	Min	1.5	Max	2.5	Avg	2

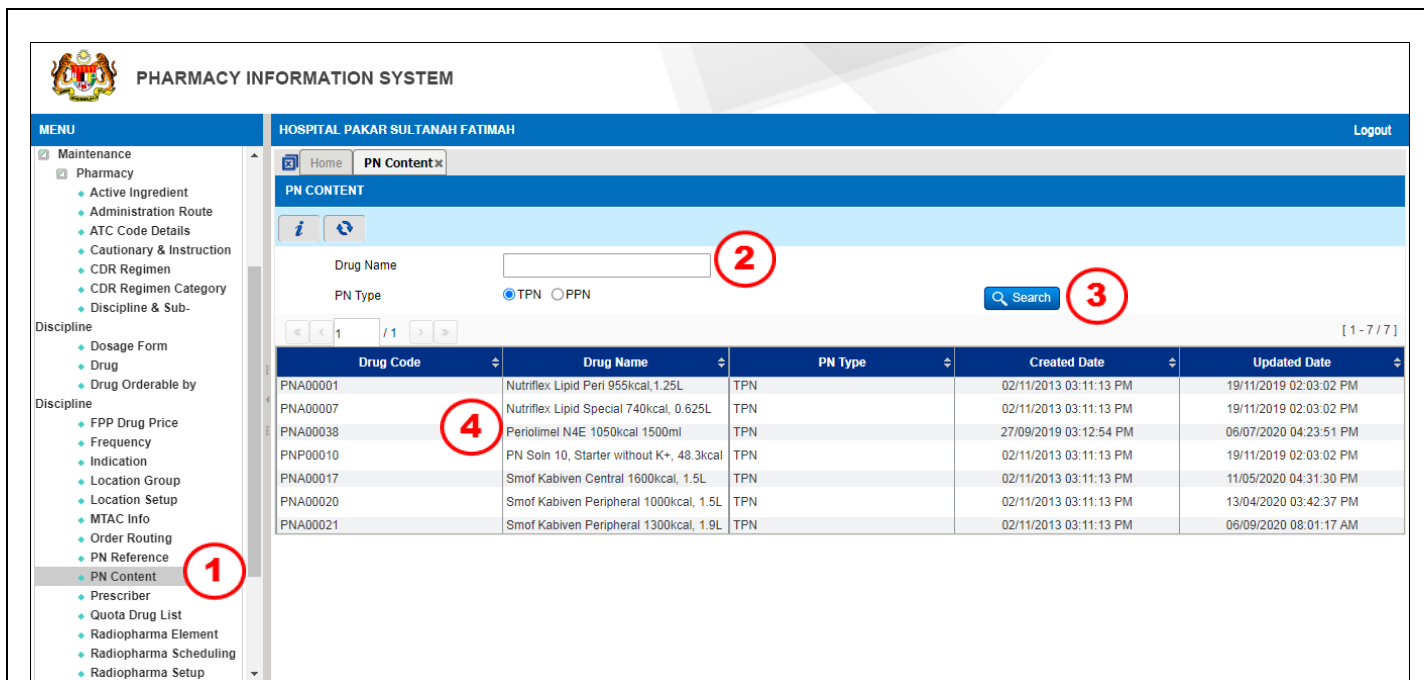
Figure 3.18-2 Constituents Reference Range

STEP 5

Click on the  button and to close record

3.19 PN Content

To view PN Source Content



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

MENU

- Maintenance
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 - CDR Regimen Category
 - Discipline & Sub-Discipline
 - Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup
 - MTAC Info
 - Order Routing
 - PN Reference
 - PN Content**
 - Prescriber
 - Quota Drug List
 - Radiopharma Element
 - Radiopharma Scheduling
 - Radiopharma Setup

PN CONTENT

Drug Name 2

PN Type ☒ TPN ☐ PPN 3 Search

[1 - 7 / 7]

Drug Code	Drug Name	PN Type	Created Date	Updated Date
PNA00001	Nutriflex Lipid Peri 955kcal, 1.25L	TPN	02/11/2013 03:11:13 PM	19/11/2019 02:03:02 PM
PNA00007	Nutriflex Lipid Special 740kcal, 0.625L	TPN	02/11/2013 03:11:13 PM	19/11/2019 02:03:02 PM
PNA00038	Periolimel N4E 1050kcal 1500ml	TPN	27/09/2019 03:12:54 PM	06/07/2020 04:23:51 PM
PNP00010	PN Soln 10, Starter without K+, 48.3kcal	TPN	02/11/2013 03:11:13 PM	19/11/2019 02:03:02 PM
PNA00017	Smof Kabiven Central 1600kcal, 1.5L	TPN	02/11/2013 03:11:13 PM	11/05/2020 04:31:30 PM
PNA00020	Smof Kabiven Peripheral 1000kcal, 1.5L	TPN	02/11/2013 03:11:13 PM	13/04/2020 03:42:37 PM
PNA00021	Smof Kabiven Peripheral 1300kcal, 1.9L	TPN	02/11/2013 03:11:13 PM	06/09/2020 08:01:17 AM

Figure 3.19-1 PN Source Content

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'PN Source Content'

STEP 2

Choose PN Type

- TPN – Total parental nutrition
- PPN – Partial parental nutrition

STEP 3

Click on the Search button to find the record

STEP 4

Double click on any type of item group existed record to open.

TPN
5
X

Drug Name Periolimel N4E 1050kcal 1500ml

Volume 1500 ml

Total Energy 1050 kCal

Osmolarity 760 mOsm/L

	Ingredient	Value
Macronutrient	Amino Acids	38 g
	Glucose	112.5 g
	Lipids	45 g
Electrolytes	Sodium	31.5 mmol
	Potassium	24 mmol
	Calcium	3 mmol
	Magnesium	3.3 mmol
	Phosphate	12.7 mmol
	Chloride	37 mmol
	Acetate	41 mmol
	Zinc	0 mmol
	Trace Element	0 ml
	Vitamin Solution	0 ml
	Water soluble	0 ml
	Fat soluble	0 ml

Figure 3.19-2 TPN

STEP 5

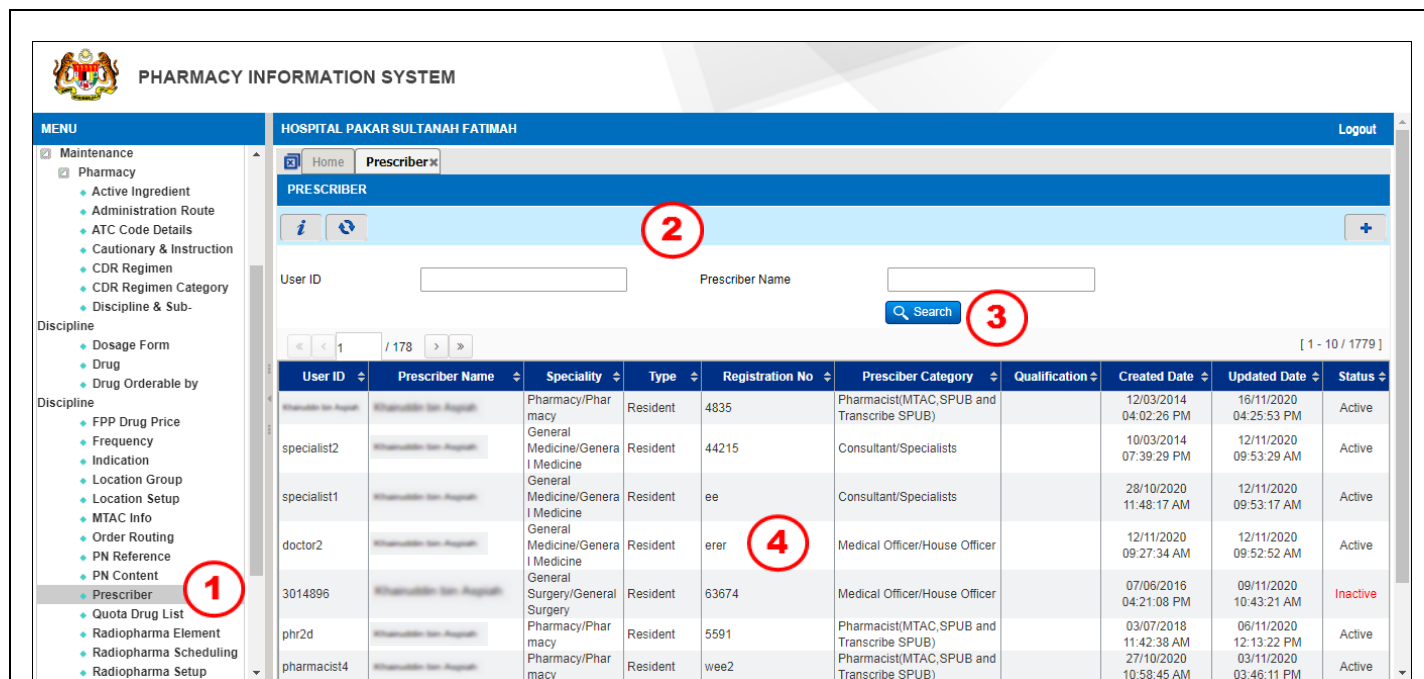
Click on the  button and to close record

3.20 Prescriber

Prescriber screen allows user to create or modify prescriber records. The Prescriber records will be used for all modules except Pharmacy Inventory inside PhIS and CPS system. Before filling the data for Prescriber record, user needs to register the prescriber in User Master.

To view and edit existing record

This screen provides function for user to view and edit existing prescriber information.



User ID	Prescriber Name	Speciality	Type	Registration No	Prescriber Category	Qualification	Created Date	Updated Date	Status
specialist2		Pharmacy/Pharmacy General	Resident	4835	Pharmacist/MTAC, SPUB and Transcribe SPUB		12/03/2014 04:02:26 PM	16/11/2020 04:25:53 PM	Active
specialist1		Medicine/General Medicine	Resident	44215	Consultant/Specialists		10/03/2014 07:39:29 PM	12/11/2020 09:53:29 AM	Active
doctor2		Medicine/General Medicine	Resident	ee	Consultant/Specialists		28/10/2020 11:48:17 AM	12/11/2020 09:53:17 AM	Active
3014896		Medicine/General Medicine	Resident	erer	Medical Officer/House Officer		12/11/2020 09:27:34 AM	12/11/2020 09:52:52 AM	Active
phr2d		Surgery/General Surgery	Resident	63674	Medical Officer/House Officer		07/06/2016 04:21:08 PM	09/11/2020 10:43:21 AM	Inactive
pharmacist4		Pharmacy/Pharmacy	Resident	5591	Pharmacist/MTAC, SPUB and Transcribe SPUB		03/07/2018 11:42:38 AM	06/11/2020 12:13:22 PM	Active
		Pharmacy/Pharmacy	Resident	wee2	Pharmacist/MTAC, SPUB and Transcribe SPUB		27/10/2020 10:58:45 AM	03/11/2020 03:46:11 PM	Active

Figure 3.20-1 Prescriber

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' and click 'Prescriber'.

STEP 2

To search for existing Indent record(s), user may search by criteria as follows:

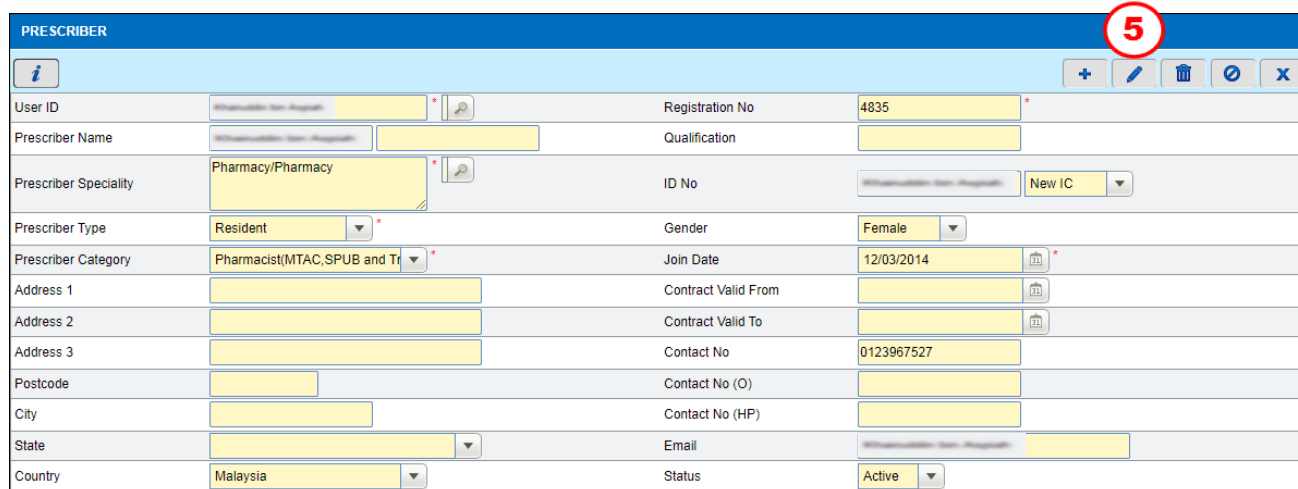
Collumn	Description	Remarks
User ID	This information comes from user profile.	Fill in user's IC number.
Prescriber Name	This information comes from user profile.	Fill in user's prescriber number.

STEP 3

Click on the  button after input criteria.

STEP 4

Double click on selected data



PRESCRIBER

User ID: [Search Icon] Registration No: 4835

Prescriber Name: [Search Icon] Qualification: [Search Icon]

Prescriber Speciality: Pharmacy/Pharmacy ID No: [Search Icon] New IC [Dropdown]

Prescriber Type: Resident Gender: Female

Prescriber Category: Pharmacist(MTAC,SPUB and Tr Join Date: 12/03/2014

Address 1: [Text] Contract Valid From: [Text]

Address 2: [Text] Contract Valid To: [Text]

Address 3: [Text] Contact No: 0123967527

Postcode: [Text] Contact No (O): [Text]

City: [Text] Contact No (HP): [Text]

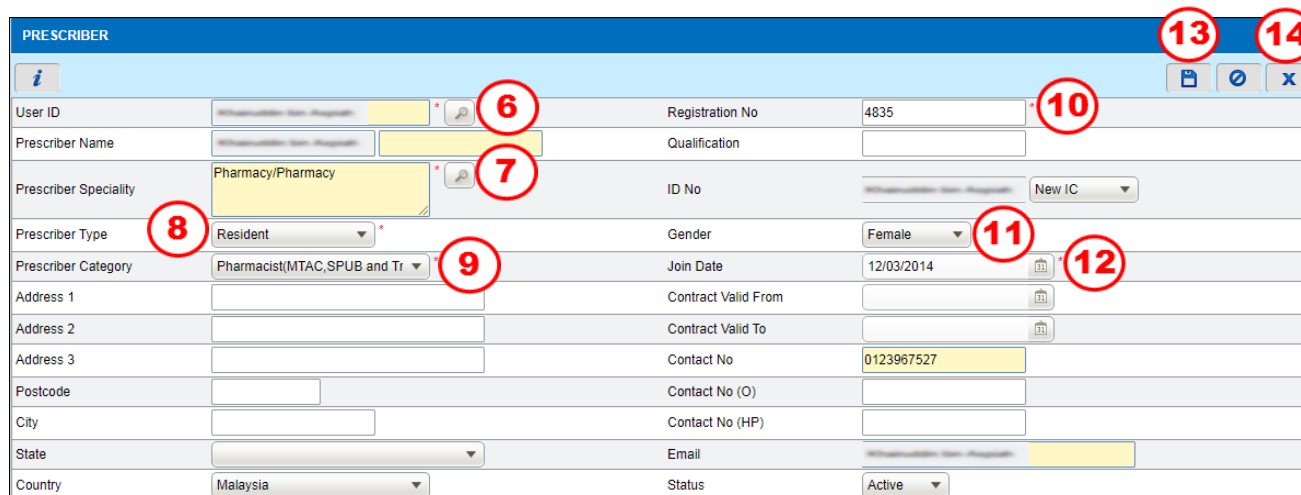
State: [Dropdown] Email: [Text]

Country: Malaysia Status: Active

Figure 3.20-2 Prescriber

STEP 5

Click button  "Edit Record" as per Figure 3.20-2 Prescriber



PRESCRIBER

User ID: [Search Icon] (6) Registration No: 4835 (10)

Prescriber Name: [Search Icon] (7) Qualification: [Search Icon]

Prescriber Speciality: Pharmacy/Pharmacy (7) ID No: [Search Icon] New IC [Dropdown]

Prescriber Type: Resident (8) Gender: Female (11)

Prescriber Category: Pharmacist(MTAC,SPUB and Tr (9) Join Date: 12/03/2014 (12)

Address 1: [Text] Contract Valid From: [Text]

Address 2: [Text] Contract Valid To: [Text]

Address 3: [Text] Contact No: 0123967527

Postcode: [Text] Contact No (O): [Text]

City: [Text] Contact No (HP): [Text]

State: [Dropdown] Email: [Text]

Country: Malaysia Status: Active

(13) (14)

Figure 3.20-3 Prescriber

STEP 6

Click on  button to search for user ID.

Note

- This search function can search by using either UserID, First Name or Last Name.

STEP 7

Click on  button to search for prescriber specialty.

Note

- This search function can search by using either specialty name or code.

STEP 8

Click the  button to choose different prescriber type.

Note

- This function enable users to choose either Resident, Part-time or Visiting.

STEP 9

Click the  button to choose different prescriber category.

Note

- This function enable users to choose prescriber categories as below;
 - Paramedical Staff doing midwifery
 - Pharmacist(MTAC,SPUB and Transcribe SPUB)
 - Consultant/Specialists
 - Consultant/Specialists for specific Indications only
 - Consultant/Specialists/Family Physician Specialists
 - Medical Officer/House Officer

STEP 10

Edit user's registration number such as pharmacist license number, doctor license number or etc.

STEP 11

Edit gender either male or female.

STEP 12

Edit join date of the user at facility.

Note

- All the step above is MANDATORY to be filled.
- There's a few field is OPTIONAL as per below

Column	Description
Address 1	Residential unit number eg: No 1, No Block A-10-12 and etc.
Address 2	Name of Residential unit eg; Taman Kalungan Mas, Condo Villa Casa and etc.
Address 3	Residential road name eg; Jalan PJU 2/8, Jalan Pesiaran Istimewa.
Postcode	Postcode number.
City	City name.
State	System will show list of state in drop down box.
Country	System will show list of country in drop down box.
Qualification	Qualification of prescriber.
ID No	Identity number of the prescriber.
Contract Valid From	To be fill if the prescriber is contract basis.
Contract Valid to	To be fill if the prescriber is contract basis.
Contact No	Contact number of prescriber.
Contact No (O)	Contact number of prescriber`s office.
Contact No (HP)	Contact number of prescriber`s hand phone.
Email	This data un editable at this page but can be edit in menu "User Profile"
Status	Status of the prescriber at facility. • Active • Inactive

STEP 13

Click  to save edited setup as per figure 3.20-3 Prescriber.

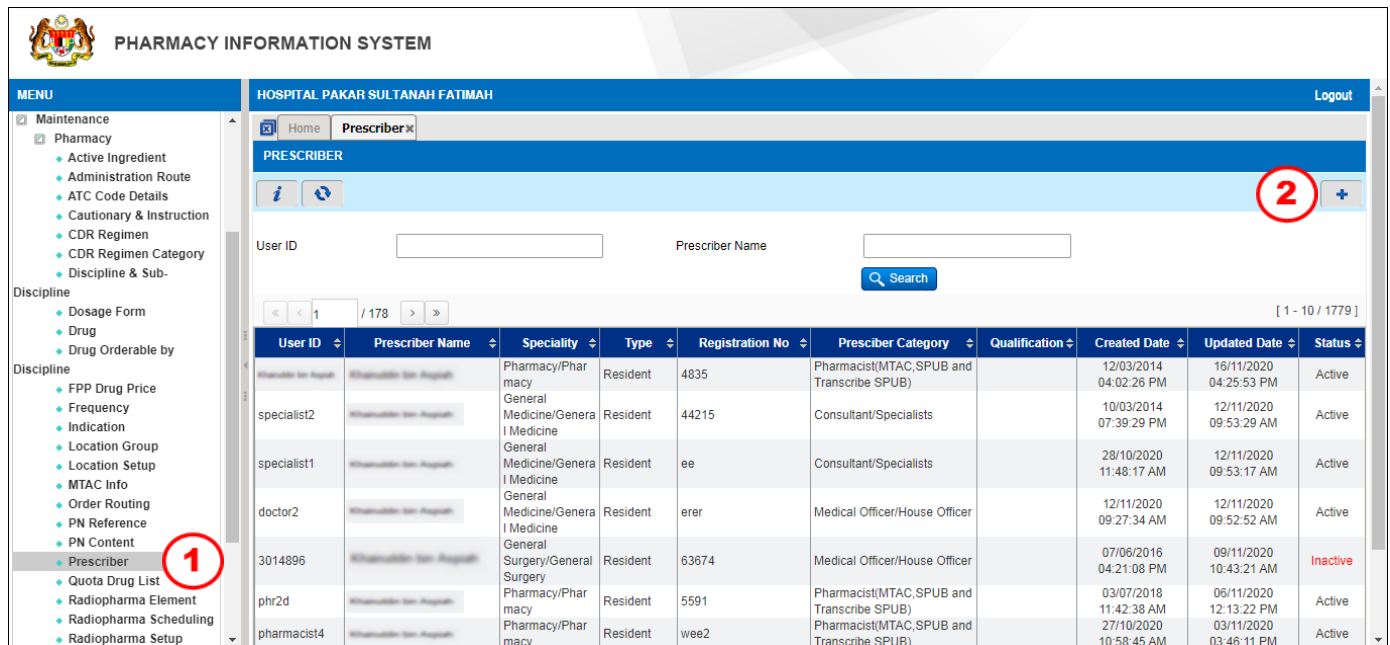
STEP 14

Click  to close the pop-up box as per figure 3.20-3 Prescriber.

To add new setting

Data admin is required to add this setting if there is new prescriber registered in facility. This is enabled prescriber can open screen medication order.

To add the new value for prescriber, user need to search whether the value is existed within the system. User is not allowed to duplicate information.



PHARMACY INFORMATION SYSTEM

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 - CDR Regimen Category
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 - Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup
 - MTAC Info
 - Order Routing
 - PN Reference
 - PN Content
 - Prescriber** (1)
 - Quota Drug List
 - Radiopharma Element
 - Radiopharma Scheduling
 - Radiopharma Setup

PRESCRIBER (2)

User ID: Prescriber Name: Search

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User ID	Prescriber Name	Speciality	Type	Registration No	Prescriber Category	Qualification	Created Date	Updated Date	Status
specialist2		Pharmacy/Pharmacy General	Resident	4835	Pharmacist(MTAC, SPUB and Transcribe SPUB)		12/03/2014 04:02:26 PM	16/11/2020 04:25:53 PM	Active
specialist1		Medicine/General Medicine	Resident	44215	Consultant/Specialists		10/03/2014 07:39:29 PM	12/11/2020 09:53:29 AM	Active
doctor2		Medicine/General Medicine	Resident	ee	Consultant/Specialists		28/10/2020 11:48:17 AM	12/11/2020 09:53:17 AM	Active
3014896		Medicine/General Medicine	Resident	erer	Medical Officer/House Officer		12/11/2020 09:27:34 AM	12/11/2020 09:52:52 AM	Active
phr2d		Surgery/General Surgery	Resident	63674	Medical Officer/House Officer		07/06/2016 04:21:08 PM	09/11/2020 10:43:21 AM	Inactive
pharmacist4		Pharmacy/Pharmacy	Resident	5591	Pharmacist(MTAC, SPUB and Transcribe SPUB)		03/07/2018 11:42:38 AM	06/11/2020 12:13:22 PM	Active
		Pharmacy/Pharmacy	Resident	wee2	Pharmacist(MTAC, SPUB and Transcribe SPUB)		27/10/2020 10:58:45 AM	03/11/2020 03:46:11 PM	Active

Figure 3.20-4 Prescriber

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' sub-menu and click on Prescriber.

STEP 2

Click on the  button to add new prescriber.

PRESCRIBER			
User ID		Registration No	
Prescriber Name		Qualification	
Prescriber Specialty		ID No	
Prescriber Type		Gender	
Prescriber Category		Join Date	
Address 1		Contract Valid From	
Address 2		Contract Valid To	
Address 3		Contact No	
Postcode		Contact No (O)	
City		Contact No (HP)	
State		Email	
Country		Status	

Figure 3.20-5 New Prescriber Record

STEP 3

Click on  button to search for user ID as per figure - Prescriber

Note

- User required to search user profile's existing record for prescriber setup.

STEP 4

Click on  button to search for prescriber specialty

Note

- This search function can search by using either specialty name or code.

STEP 5

Click the  button to choose different prescriber type.

Note

- This function enable users to choose either Resident, Part-time or Visiting.

STEP 6

Click the  button to choose different prescriber category.

Note

- This function enable users to choose prescriber categories as below;
 - Paramedical Staff doing midwifery
 - Pharmacist(MTAC,SPUB and Transcribe SPUB)
 - Consultant/Specialists
 - Consultant/Specialists for specific Indications only
 - Consultant/Specialists/Family Physician Specialists
 - Medical Officer/House Officer

STEP 7

Fill in the user's registration number such as pharmacist license number, doctor license number or etc.

STEP 8

Fill up gender either male or female.

STEP 9

Fill up join date of the user at facility.

Note

- All the step above is MANDATORY to be filled.
- There's a few field is OPTIONAL as per below

Column	Description
Address 1	Residential unit number eg: No 1, No Block A-10-12 and etc.
Address 2	Name of Residential unit eg; Taman Kalungan Mas, Condo Villa Casa and etc.
Address 3	Residential road name eg; Jalan PJU 2/8, Jalan Pesiaran Istimewa.
Postcode	Postcode number.
City	City name.
State	System will show list of state in drop down box.
Country	System will show list of country in drop down box.
Qualification	Qualification of prescriber.
ID No	Identity number of the prescriber.
Contract Valid From	To be fill if the prescriber is contract basis.
Contract Valid To	To be fill if the prescriber is contract basis.
Contact No	Contact number of prescriber.
Contact No (O)	Contact number of prescriber`s office.
Contact No (HP)	Contact number of prescriber`s hand phone.
Email	This data un editable at this page but can be edit in menu "User Profile"
Status	Status of the prescriber at facility. • Active • Inactive

STEP 10

Click  to save edited setup as per figure 3.19-5 Prescriber.

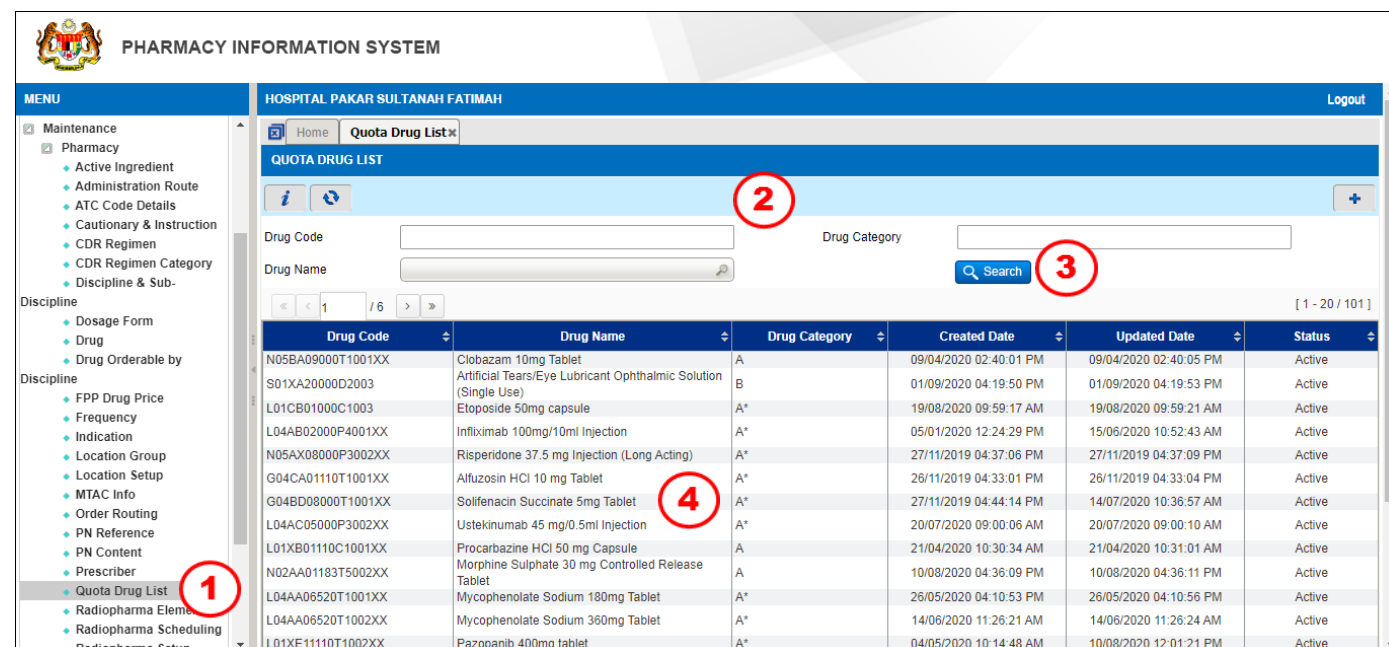
STEP 11

Click  to close the pop-up box as per figure 3.19-5 Prescriber.

3.21 Quota Drug List

To view and edit existing record

This screen provides function for user to view and edit existing quota drug list.



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Quota Drug List

QUOTA DRUG LIST

Drug Code Drug Category

Drug Name Search

[1 - 20 / 101]

Drug Code	Drug Name	Drug Category	Created Date	Updated Date	Status
N05BA09000T1001XX	Clobazam 10mg Tablet	A	09/04/2020 02:40:01 PM	09/04/2020 02:40:05 PM	Active
S01XA20000D2003	Artificial Tears/Eye Lubricant Ophthalmic Solution (Single Use)	B	01/09/2020 04:19:50 PM	01/09/2020 04:19:53 PM	Active
L01CB01000C1003	Etoposide 50mg capsule	A*	19/08/2020 09:59:17 AM	19/08/2020 09:59:21 AM	Active
L04AB02000P4001XX	Infliximab 100mg/10ml Injection	A*	05/01/2020 12:24:29 PM	15/06/2020 10:52:43 AM	Active
N05AX08000P3002XX	Risperidone 37.5 mg Injection (Long Acting)	A*	27/11/2019 04:37:06 PM	27/11/2019 04:37:09 PM	Active
G04CA01110T1001XX	Alfuzosin HCl 10 mg Tablet	A*	26/11/2019 04:33:01 PM	26/11/2019 04:33:04 PM	Active
G04BD08000T1001XX	Solifenacin Succinate 5mg Tablet	A*	27/11/2019 04:44:14 PM	14/07/2020 10:36:57 AM	Active
L04AC05000P3002XX	Ustekinumab 45 mg/0.5ml Injection	A*	20/07/2020 09:00:06 AM	20/07/2020 09:00:10 AM	Active
L01XB01110C1001XX	Procabazine HCl 50 mg Capsule	A	21/04/2020 10:30:34 AM	21/04/2020 10:31:01 AM	Active
N02AA01183T5002XX	Morphine Sulphate 30 mg Controlled Release Tablet	A	10/08/2020 04:36:09 PM	10/08/2020 04:36:11 PM	Active
L04AA06520T1001XX	Mycophenolate Sodium 180mg Tablet	A*	26/05/2020 04:10:53 PM	26/05/2020 04:10:56 PM	Active
L04AA06520T1002XX	Mycophenolate Sodium 360mg Tablet	A*	14/06/2020 11:26:21 AM	14/06/2020 11:26:24 AM	Active
L01XE11110T1002XX	Pazopanib 400mg tablet	A*	04/05/2020 10:14:48 AM	10/08/2020 12:01:21 PM	Active

Figure 3.21-1 Quota Drug List

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' and click 'Quota Drug List'.

STEP 2

To search for existing quota drug list record(s), user may search by criteria as follows:

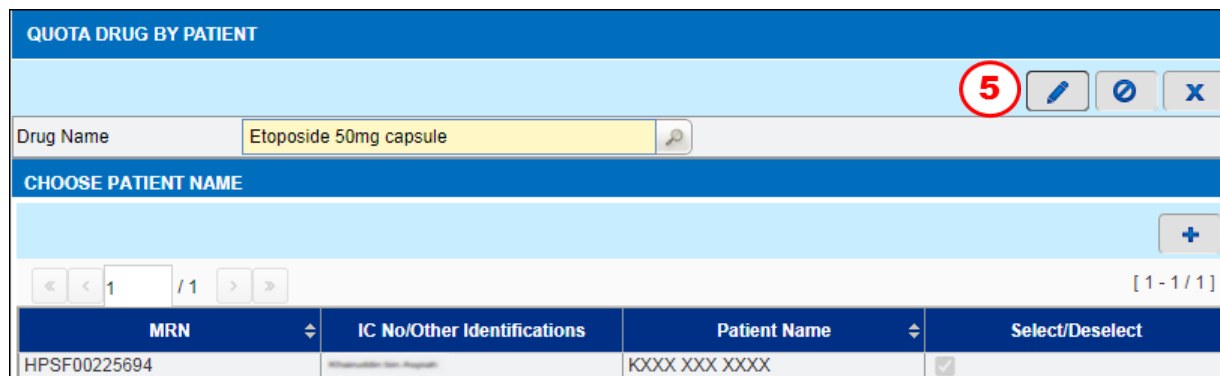
- Drug Code
- Drug Category
- Drug Name

STEP 3

Click on the  button after input criteria.

STEP 4

Double click on selected data



QUOTA DRUG BY PATIENT

Drug Name Etoposide 50mg capsule

CHOOSE PATIENT NAME

[1 - 1 / 1]

MRN	IC No/Other Identifications	Patient Name	Select/Deselect
HPSF00225694	KHARUNILIN bin ABUJAH	KXXX XXXX XXXX	☒

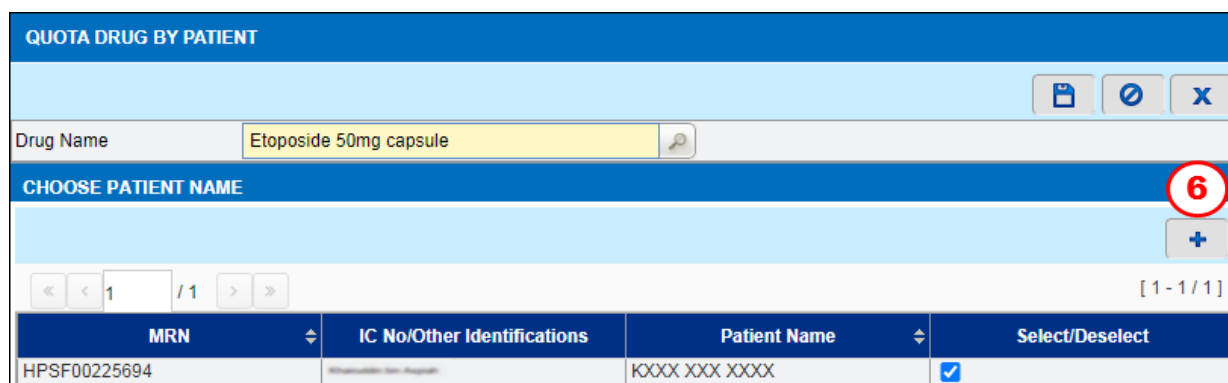
Figure 3.21-2 Quota Drug By Patient

STEP 5

Click on  button to edit record

Note

Once click on edit button, record screen will be shown in Figure 3.21-3



MRN	IC No/Other Identifications	Patient Name	Select/Deselect
HPSF00225694		KXXX XXX XXXX	☒

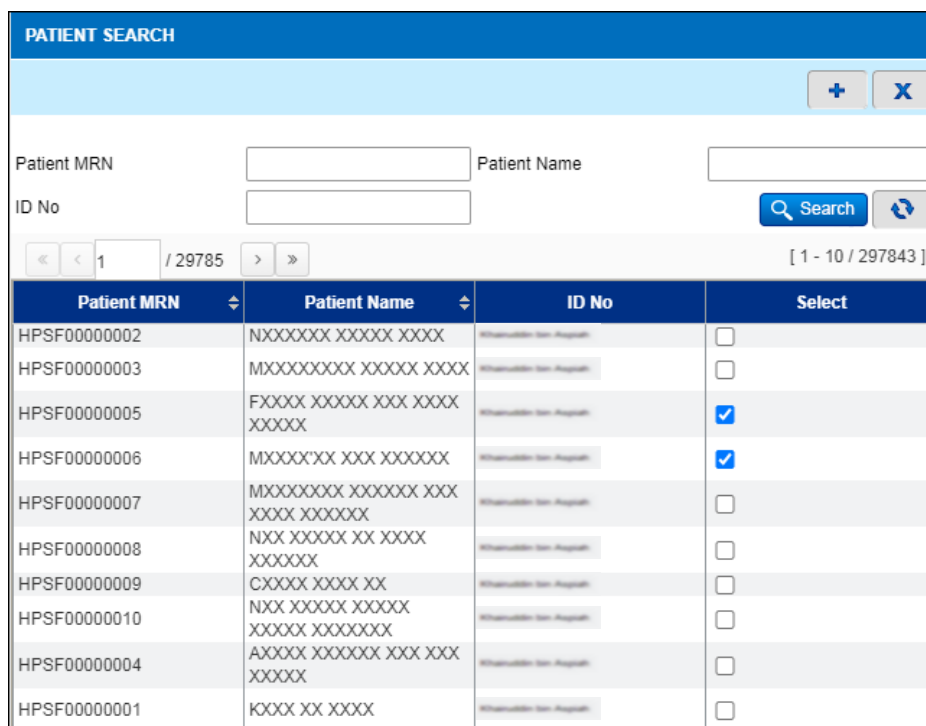
Figure 3.21-3 Quota Drug By Patient

STEP 6

Click on  button to add patient

Note

Once click on add button, patient search list as Figure 3.21-4 will be shown



Patient MRN	Patient Name	ID No	Select
HPSF00000002	NXXXXXX XXXXX XXXX		☐
HPSF00000003	MXXXXXXX XXXXX XXXX		☐
HPSF00000005	FXXXX XXXXX XXX XXXX XXXXX		☒
HPSF00000006	MXXXXXX XXX XXXXXXX		☒
HPSF00000007	MXXXXXXX XXXXXX XXX XXXX XXXXX		☐
HPSF00000008	NXX XXXXX XX XXXX XXXXX		☐
HPSF00000009	CXXXX XXXX XX		☐
HPSF00000010	NXX XXXXX XXXXX XXXXX XXXXXXX		☐
HPSF00000004	AXXXX XXXXXX XXX XXX XXXXX		☐
HPSF00000001	KXXX XX XXXX		☐

Figure 3.21-4 Patient Search

Note

Click on  button to search patient. Tick on check box to select patient and then click on  button to add the selected patient

QUOTA DRUG BY PATIENT
7

✎
✖
✕

Drug Name Etoposide 50mg capsule 🔍

CHOOSE PATIENT NAME

+

⏪
⏩
1 / 1

[1 - 3 / 3]

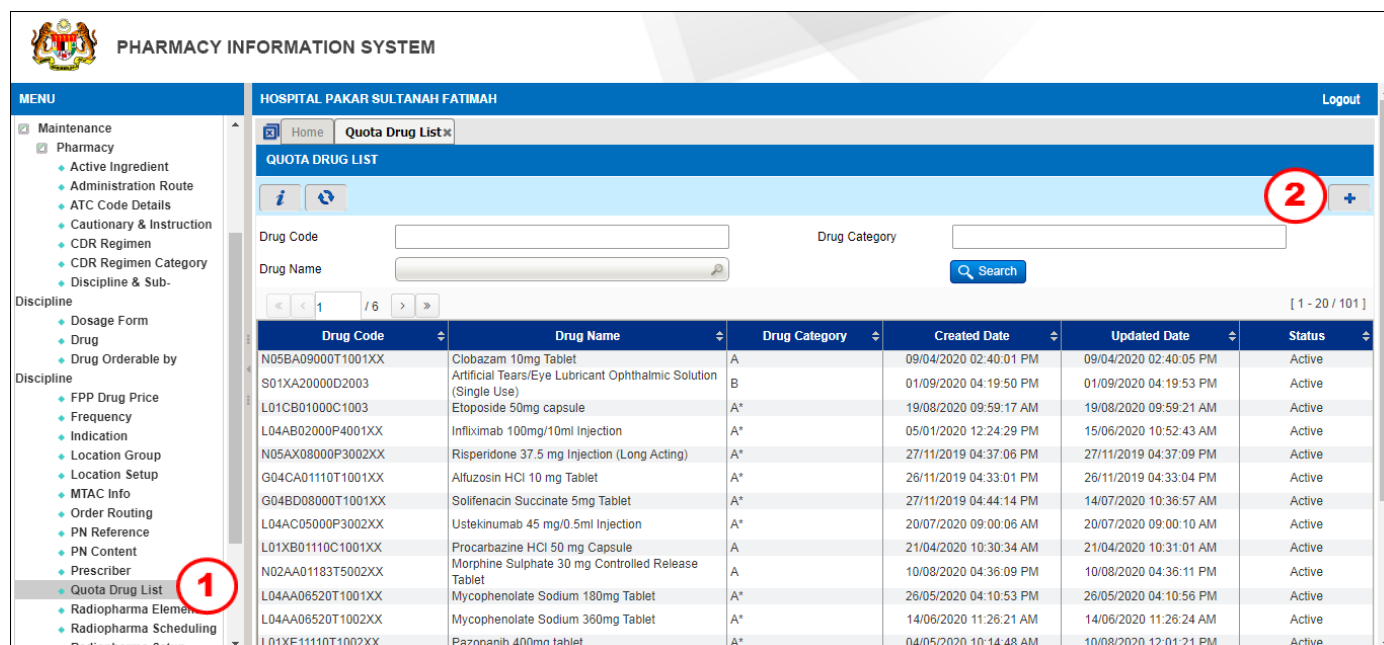
MRN	IC No/Other Identifications	Patient Name	Select/Deselect
HPSF00225694	Khanubdin bin Agupah	KXXX XXX XXXX	☒
HPSF00000005	Khanubdin bin Agupah	FXXXX XXXXX XXX XXXX XXXXX	☒
HPSF00000006	Khanubdin bin Agupah	MXXXX'XX XXX XXXXXXX	☒

Figure 3.21-5 Quota Drug By Patient

STEP 7

Click on  button to close the pop-up box as per figure 3.21-5

To add new setting



PHARMACY INFORMATION SYSTEM

MENU

- Maintenance
 - Pharmacy
 - Active Ingredient
 - Administration Route
 - ATC Code Details
 - Cautionary & Instruction
 - CDR Regimen
 - CDR Regimen Category
 - Discipline & Sub-Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup
 - MTAC Info
 - Order Routing
 - PN Reference
 - PN Content
 - Prescriber
 - Quota Drug List**
 - Radiopharma Element
 - Radiopharma Scheduling
 - Radiopharma Setup

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Quota Drug List

Drug Code: Drug Category:

Drug Name: Search

[1 - 20 / 101]

Drug Code	Drug Name	Drug Category	Created Date	Updated Date	Status
N05BA09000T1001XX	Clobazam 10mg Tablet	A	09/04/2020 02:40:01 PM	09/04/2020 02:40:05 PM	Active
S01XA20000D2003	Artificial Tears/Eye Lubricant Ophthalmic Solution (Single Use)	B	01/09/2020 04:19:50 PM	01/09/2020 04:19:53 PM	Active
L01CB01000C1003	Etoposide 50mg capsule	A*	19/08/2020 09:59:17 AM	19/08/2020 09:59:21 AM	Active
L04AB02000P4001XX	Infliximab 100mg/10ml Injection	A*	05/01/2020 12:24:29 PM	15/06/2020 10:52:43 AM	Active
N05AX08000P3002XX	Risperidone 37.5 mg Injection (Long Acting)	A*	27/11/2019 04:37:06 PM	27/11/2019 04:37:09 PM	Active
G04CA01110T1001XX	Alfuzosin HCl 10 mg Tablet	A*	26/11/2019 04:33:01 PM	26/11/2019 04:33:04 PM	Active
G04BD08000T1001XX	Solifenacin Succinate 5mg Tablet	A*	27/11/2019 04:44:14 PM	14/07/2020 10:36:57 AM	Active
L04AC05000P3002XX	Ustekinumab 45 mg/0.5ml Injection	A*	20/07/2020 09:00:06 AM	20/07/2020 09:00:10 AM	Active
L01XB01110C1001XX	Procabazine HCl 50 mg Capsule	A	21/04/2020 10:30:34 AM	21/04/2020 10:31:01 AM	Active
N02AA01183T5002XX	Morphine Sulphate 30 mg Controlled Release Tablet	A	10/08/2020 04:36:09 PM	10/08/2020 04:36:11 PM	Active
L04AA06520T1001XX	Mycophenolate Sodium 180mg Tablet	A*	26/05/2020 04:10:53 PM	26/05/2020 04:10:56 PM	Active
L04AA06520T1002XX	Mycophenolate Sodium 360mg Tablet	A*	14/06/2020 11:26:21 AM	14/06/2020 11:26:24 AM	Active
L01XE11110T1002XX	Pazopanib 400mg tablet	A*	04/05/2020 10:14:48 AM	10/08/2020 12:01:21 PM	Active

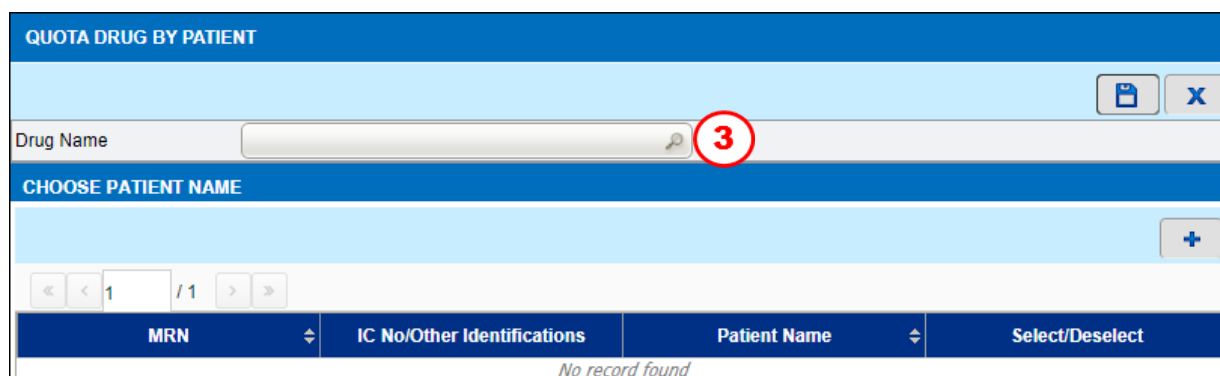
Figure 3.21-6 Quota Drug List

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' sub-menu and click on 'Quota Drug List'.

STEP 2

Click on the  button to add new quota drug list



QUOTA DRUG BY PATIENT

Drug Name: Search

CHOOSE PATIENT NAME

+

[1 / 1]

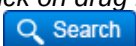
MRN	IC No/Other Identifications	Patient Name	Select/Deselect
No record found			

Figure 3.21-7 Quota Drug By Patient

STEP 3

Click on drug name to select drug

Note

Once click on drug name, search drug name screen will be shown in Figure 3.21-8. User able to key in drug name or click on  button to view all drug available.

Search Drug Name

X

Drug Name

Search

1 / 135

[1 - 10 / 1341]

Drug Name	Drug Code	Drug Category
Abacavir 300mg Tab	KPK00038	Non-FUKKM
Abacavir Sulphate 600mg + Lamivudine 300mg Tablet	J05AR02964T1001XX	A*
Abemaciclib 100mg Tablet	KPK00412	Non-FUKKM
Abiraterone 250mg Tablet	L02BX03000T1001	A*
Acarbose 50 mg Tablet	A10BF01000T1001XX	A/KK
Acetazolamide 250 mg Tablet	S01EC01000T1001XX	B
Acetazolamide 500mg Inj	S01EC01000P4001XX	B
Acetic Acid 0.5% in Alcohol	GLN0200070	C
Acetic Acid 1% in Alcohol	GLN0200069	C
Acetic Acid 1% in Aqueous	GLN0200067	C

Figure 3.21-8 Search Drug Name

Note

Once selected drug name quota drug by patient detail will be shown as Figure 3.21-9

QUOTA DRUG BY PATIENT

Drug Name

Acetazolamide 250 mg Tablet

CHOOSE PATIENT NAME

4

1 / 1

MRN	IC No/Other Identifications	Patient Name	Select/Deselect
No record found			

Figure 3.21-9 Quota Drug By Patient

STEP 4

Click on  button to add patient

PATIENT SEARCH

+
X

Patient MRN
ID No

Patient Name

5

Q
Search
↺

1
/ 1
>

Patient MRN	Patient Name	ID No	Select
No Record Found			

Figure 3.21-10 Patient Search

Note

User able to insert filter search by Patient MRN, Patient Name or ID No

STEP 5

Click on
Q
Search
 button to search patient

PATIENT SEARCH

6
+
X

Patient MRN
ID No

Patient Name

Q
Search
↺

1
/ 29785
>

[1 - 10 / 297844]

Patient MRN	Patient Name	ID No	Select
HPSF00000002	NXXXXXX XXXXX XXXX	XXXXXXXXXXXXXXXXXXXX	☐
HPSF00000003	MXXXXXXXX XXXXX XXXX	XXXXXXXXXXXXXXXXXXXX	☒
HPSF00000005	FXXXX XXXXX XXX XXXX XXXXX	XXXXXXXXXXXXXXXXXXXX	☒
HPSF00000006	MXXXX'XX XXX XXXXXX	XXXXXXXXXXXXXXXXXXXX	☒
HPSF00000007	MXXXXXXXX XXXXXX XXX XXXX XXXXXX	XXXXXXXXXXXXXXXXXXXX	☐
HPSF00000008	NXX XXXXX XX XXXX XXXXXX	XXXXXXXXXXXXXXXXXXXX	☐
HPSF00000009	CXXXX XXXX XX	XXXXXXXXXXXXXXXXXXXX	☐
HPSF00000010	NXX XXXXX XXXXX XXXXX XXXXXXXX	XXXXXXXXXXXXXXXXXXXX	☐
HPSF00000004	AXXXX XXXXXX XXX XXX XXXXXX	XXXXXXXXXXXXXXXXXXXX	☐
HPSF00000001	KXXX XX XXXX	XXXXXXXXXXXXXXXXXXXX	☐

Figure 3.21-11 Patient Search

Note

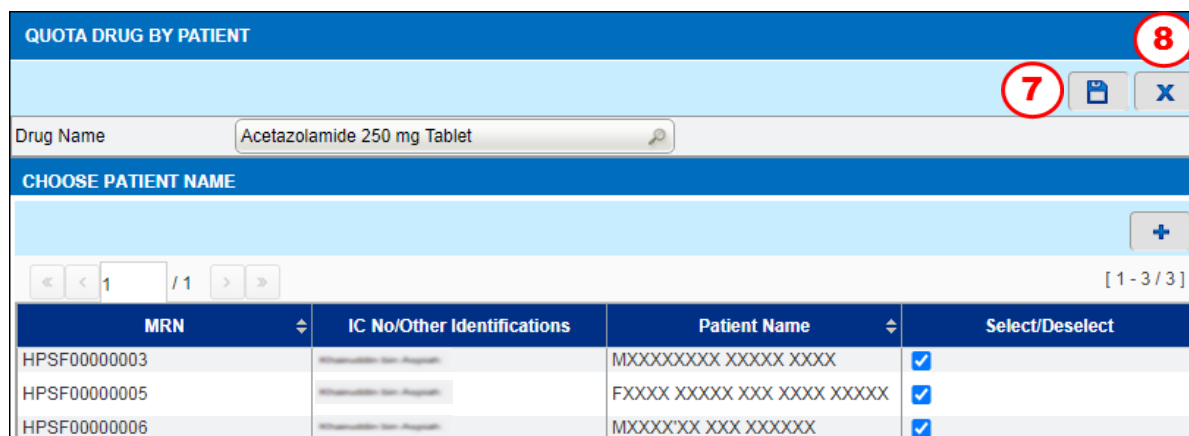
Tick on checkbox to select the patient

STEP 6

Click on  button to add the selected patient

Note

Once click on add button quota drug by patient will be shown in Figure 3.21-12



MRN	IC No/Other Identifications	Patient Name	Select/Deselect
HPSF00000003	Wholesaler (on Program)	MXXXXXXXX XXXXX XXXX	☒
HPSF00000005	Wholesaler (on Program)	FXXXX XXXXX XXX XXXX XXXXX	☒
HPSF00000006	Wholesaler (on Program)	MXXXX'XX XXX XXXXXX	☒

Figure 3.21-12 Quota Drug By Patient

STEP 7

Click on  button to save the record

Note

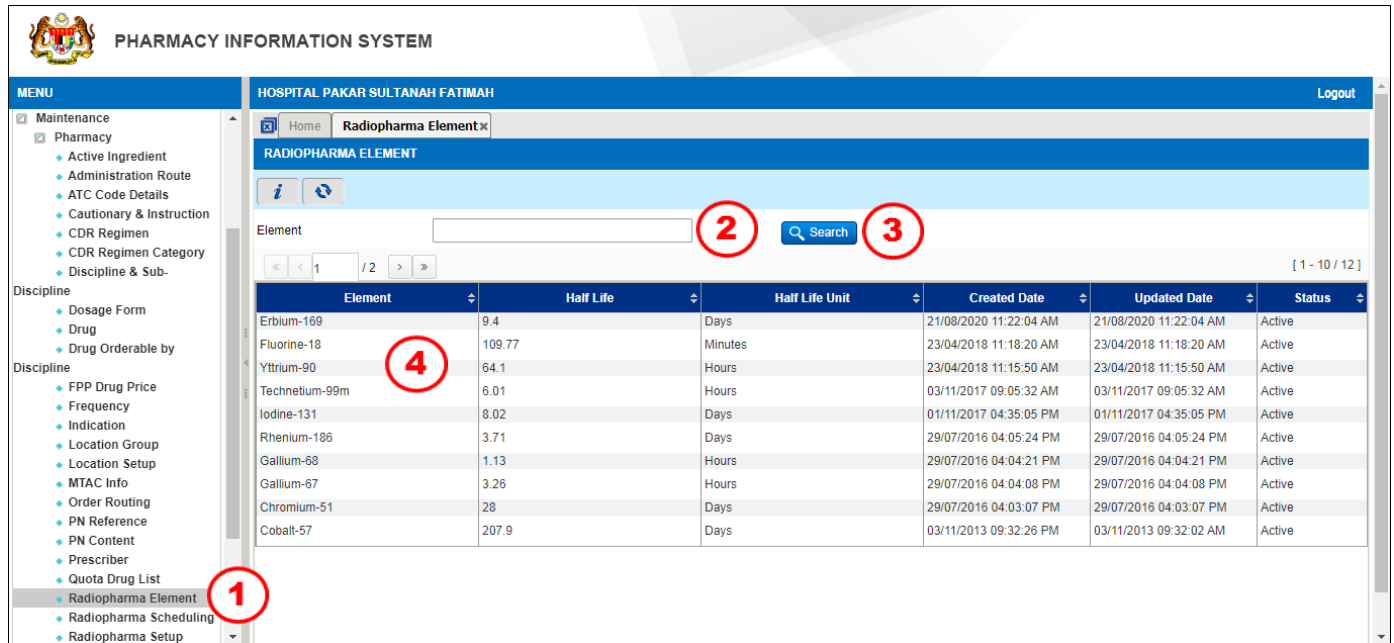
To add other patient click on  button add follow step 5 and step 6

STEP 8

Click on  button to close

3.22 Radiopharma Element

To view Radiopharma Element



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

Home Radiopharma Element

RADIOPHARMA ELEMENT

Element

[1 - 10 / 12]

Element	Half Life	Half Life Unit	Created Date	Updated Date	Status
Erbium-169	9.4	Days	21/08/2020 11:22:04 AM	21/08/2020 11:22:04 AM	Active
Fluorine-18	109.77	Minutes	23/04/2018 11:18:20 AM	23/04/2018 11:18:20 AM	Active
Yttrium-90	64.1	Hours	23/04/2018 11:15:50 AM	23/04/2018 11:15:50 AM	Active
Technetium-99m	6.01	Hours	03/11/2017 09:05:32 AM	03/11/2017 09:05:32 AM	Active
Iodine-131	8.02	Days	01/11/2017 04:35:05 PM	01/11/2017 04:35:05 PM	Active
Rhenium-186	3.71	Days	29/07/2016 04:05:24 PM	29/07/2016 04:05:24 PM	Active
Gallium-68	1.13	Hours	29/07/2016 04:04:21 PM	29/07/2016 04:04:21 PM	Active
Gallium-67	3.26	Hours	29/07/2016 04:04:08 PM	29/07/2016 04:04:08 PM	Active
Chromium-51	28	Days	29/07/2016 04:03:07 PM	29/07/2016 04:03:07 PM	Active
Cobalt-57	207.9	Days	03/11/2013 09:32:26 PM	03/11/2013 09:32:02 AM	Active

Figure 3.22-1 Radiopharma Element

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Radiopharma Element'.

STEP 2

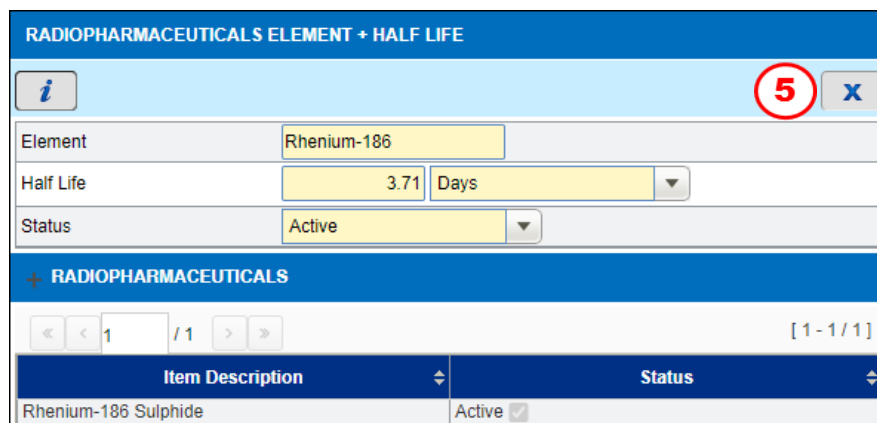
Search record by inserting detail in Element.

STEP 3

Click on button to find the record.

STEP 4

Click on Element in existed record.



RADIOPHARMACEUTICALS ELEMENT + HALF LIFE

Element

Half Life

Status

+ RADIOPHARMACEUTICALS

[1 - 1 / 1]

Item Description	Status
Rhenium-186 Sulphide	Active ☒

Figure 3.22-2 Radiopharmaceuticals Element + Half Life

STEP 5

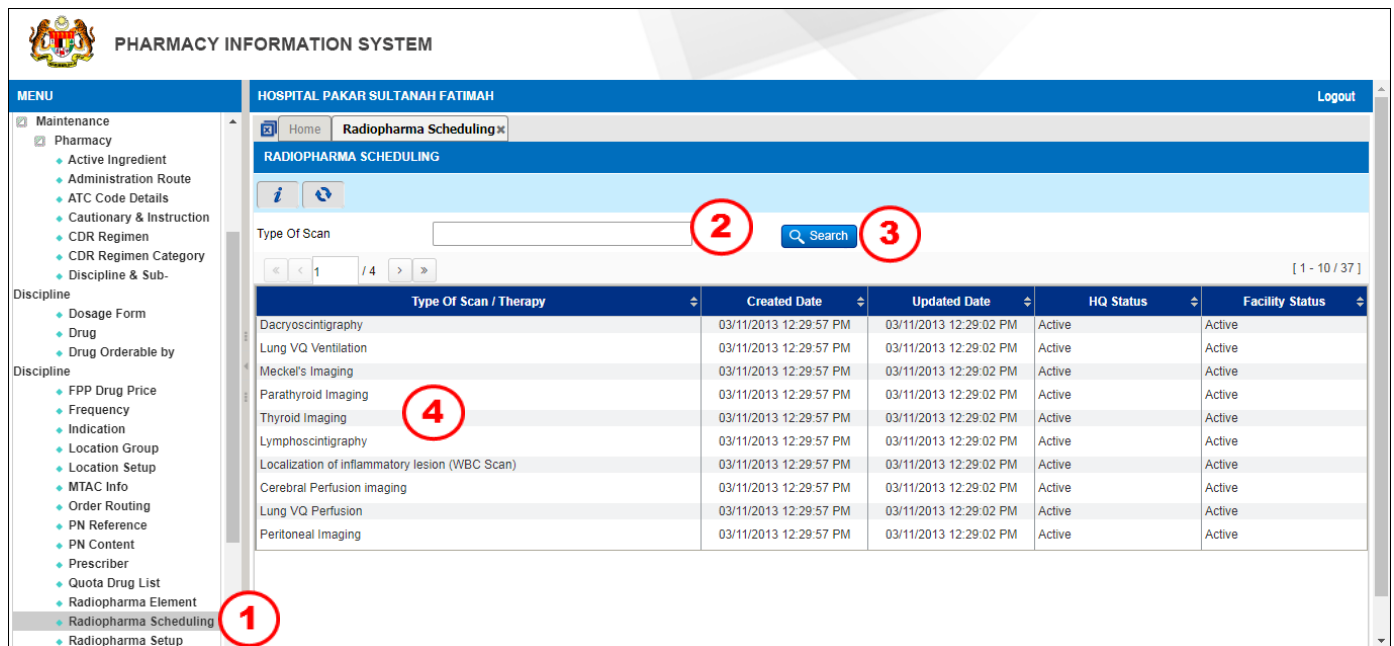
Click on the button and to close record

3.23 Radiopharma Scheduling

Radiopharma screen enable user to edit value of daily scheduled scan quota.

To view and edit existing record

This screen provides function for user to view and edit existing prescriber information.



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

MENU

- Maintenance
 - Pharmacy
 - Active Ingredient
 - Administration Route
 - ATC Code Details
 - Cautionary & Instruction
 - CDR Regimen
 - CDR Regimen Category
 - Discipline & Sub-Discipline
 - Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup
 - MTAC Info
 - Order Routing
 - PN Reference
 - PN Content
 - Prescriber
 - Quota Drug List
 - Radiopharma Element
 - Radiopharma Scheduling**
 - Radiopharma Setup

RADIOPHARMA SCHEDULING

Type Of Scan: **Search**

[1 - 10 / 37]

Type Of Scan / Therapy	Created Date	Updated Date	HQ Status	Facility Status
Dacryoscintigraphy	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Lung VQ Ventilation	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Meckel's Imaging	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Parathyroid Imaging	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Thyroid Imaging	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Lymphoscintigraphy	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Localization of inflammatory lesion (WBC Scan)	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Cerebral Perfusion imaging	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Lung VQ Perfusion	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active
Peritoneal Imaging	03/11/2013 12:29:57 PM	03/11/2013 12:29:02 PM	Active	Active

3.23-1 Radiopharma Scheduling

STEP 1

Click on 'Maintenance' menu followed by 'Pharmacy' sub-menu and click on Radiopharma Scheduling.

STEP 2

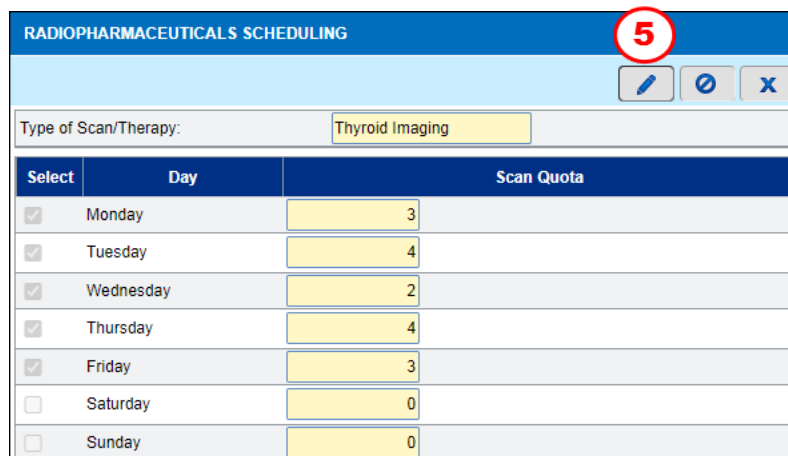
Search record by inserting detail in Type Of Scan

STEP 3

Click on **Search** button to find the record

STEP 4

Double click on type of scan/therapy that user want to edit scan quota



RADIOPHARMACEUTICALS SCHEDULING

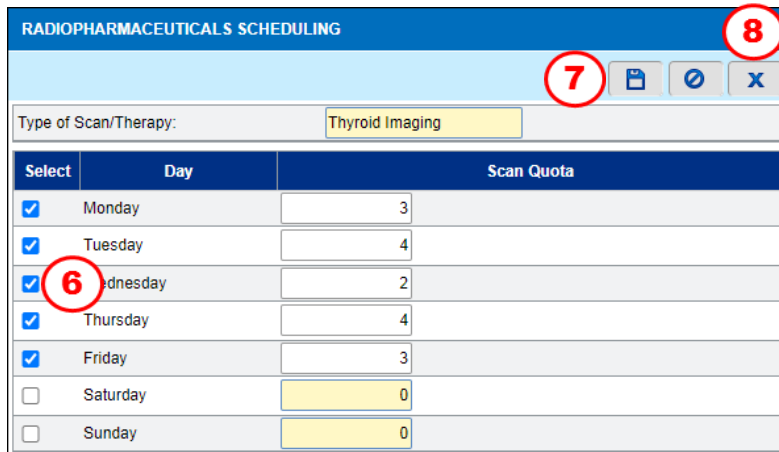
Type of Scan/Therapy:

Select	Day	Scan Quota
☒	Monday	3
☒	Tuesday	4
☒	Wednesday	2
☒	Thursday	4
☒	Friday	3
☐	Saturday	0
☐	Sunday	0

Figure 3.23-2 Radiopharmaceuticals Scheduling

STEP 5

Click on  button to edit the record



Select	Day	Scan Quota
☒	Monday	3
☒	Tuesday	4
☒	Wednesday	2
☒	Thursday	4
☒	Friday	3
☐	Saturday	0
☐	Sunday	0

Figure 3.23-3 Radiopharmaceuticals Scheduling

STEP 6

Click and set number of scans in a day for the particular working day.

STEP 7

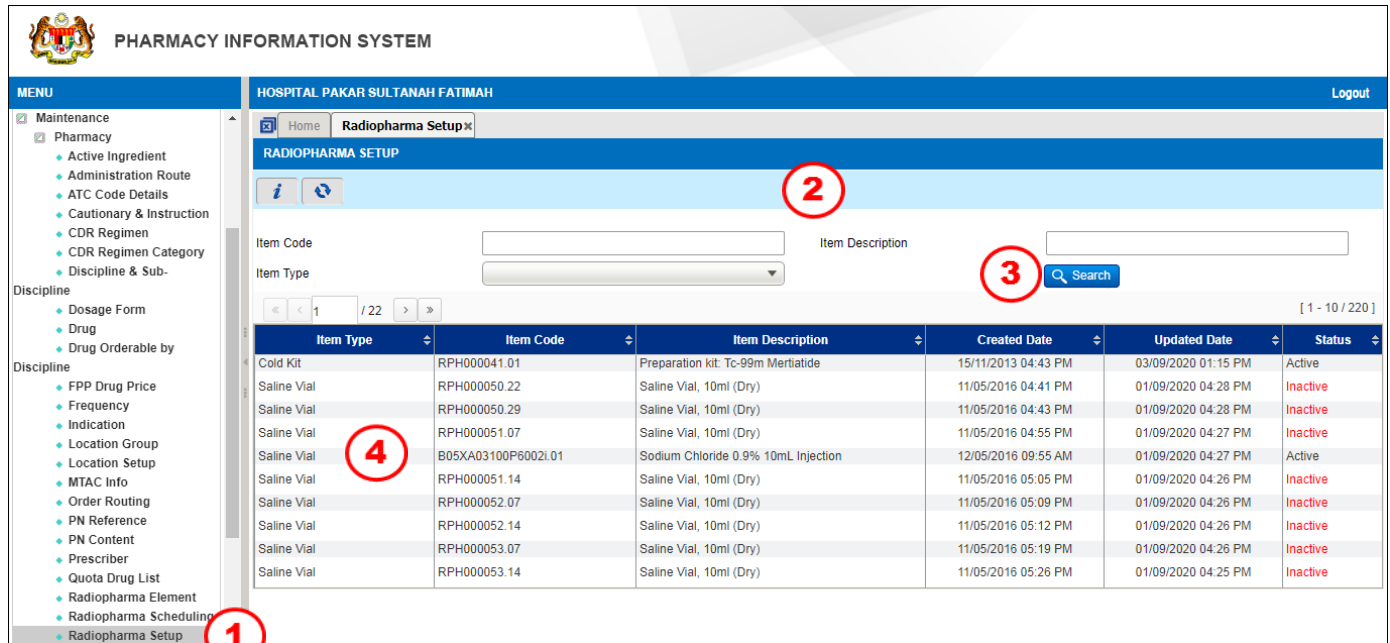
Click  to save edited setup.

STEP 8

Click  to close the pop-up box.

3.24 Radiopharma Setup

To view Radiopharma Setup



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH Logout

MENU

- Maintenance
 - Pharmacy
 - Active Ingredient
 - Administration Route
 - ATC Code Details
 - Cautionary & Instruction
 - CDR Regimen
 - CDR Regimen Category
 - Discipline & Sub-
 - Discipline
 - Dosage Form
 - Drug
 - Drug Orderable by
 - Discipline
 - FPP Drug Price
 - Frequency
 - Indication
 - Location Group
 - Location Setup
 - MTAC Info
 - Order Routing
 - PN Reference
 - PN Content
 - Prescriber
 - Quota Drug List
 - Radiopharma Element
 - Radiopharma Scheduling
 - Radiopharma Setup

RADIOPHARMA SETUP

Item Code: Item Description:

Item Type:

[1 - 10 / 220]

Item Type	Item Code	Item Description	Created Date	Updated Date	Status
Cold Kit	RPH000041.01	Preparation kit: Tc-99m Meritide	15/11/2013 04:43 PM	03/09/2020 01:15 PM	Active
Saline Vial	RPH000050.22	Saline Vial, 10ml (Dry)	11/05/2016 04:41 PM	01/09/2020 04:28 PM	Inactive
Saline Vial	RPH000050.29	Saline Vial, 10ml (Dry)	11/05/2016 04:43 PM	01/09/2020 04:28 PM	Inactive
Saline Vial	RPH000051.07	Saline Vial, 10ml (Dry)	11/05/2016 04:55 PM	01/09/2020 04:27 PM	Inactive
Saline Vial	B05XA03100P6002L01	Sodium Chloride 0.9% 10mL Injection	12/05/2016 09:55 AM	01/09/2020 04:27 PM	Active
Saline Vial	RPH000051.14	Saline Vial, 10ml (Dry)	11/05/2016 05:05 PM	01/09/2020 04:26 PM	Inactive
Saline Vial	RPH000052.07	Saline Vial, 10ml (Dry)	11/05/2016 05:09 PM	01/09/2020 04:26 PM	Inactive
Saline Vial	RPH000052.14	Saline Vial, 10ml (Dry)	11/05/2016 05:12 PM	01/09/2020 04:26 PM	Inactive
Saline Vial	RPH000053.07	Saline Vial, 10ml (Dry)	11/05/2016 05:19 PM	01/09/2020 04:26 PM	Inactive
Saline Vial	RPH000053.14	Saline Vial, 10ml (Dry)	11/05/2016 05:26 PM	01/09/2020 04:25 PM	Inactive

Figure 3.24-1 Radiopharma Setup

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Radiopharma Setup'

STEP 2

Search record by inserting details

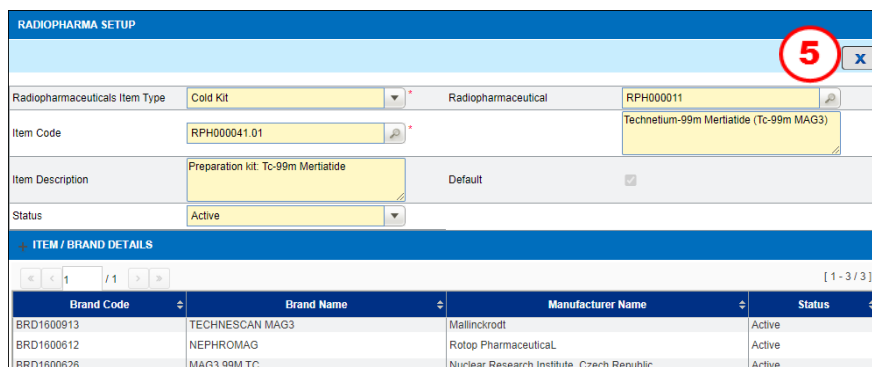
- Item Code
- Item Type
- Item Description

STEP 3

Click Button to find the record

STEP 4

Click on Item in existed record to open



RADIOPHARMA SETUP

Radiopharmaceuticals Item Type: Radiopharmaceutical:

Item Code:

Item Description: Default: ☐

Status:

ITEM / BRAND DETAILS

[1 - 3 / 3]

Brand Code	Brand Name	Manufacturer Name	Status
BRD1600913	TECHNISCAN MAG3	Mallinckrodt	Active
BRD1600612	NEPHROMAG	Rotop Pharmaceutical	Active
BRD1600626	MAG3 99m TC	Nuclear Research Institute, Czech Republic	Active

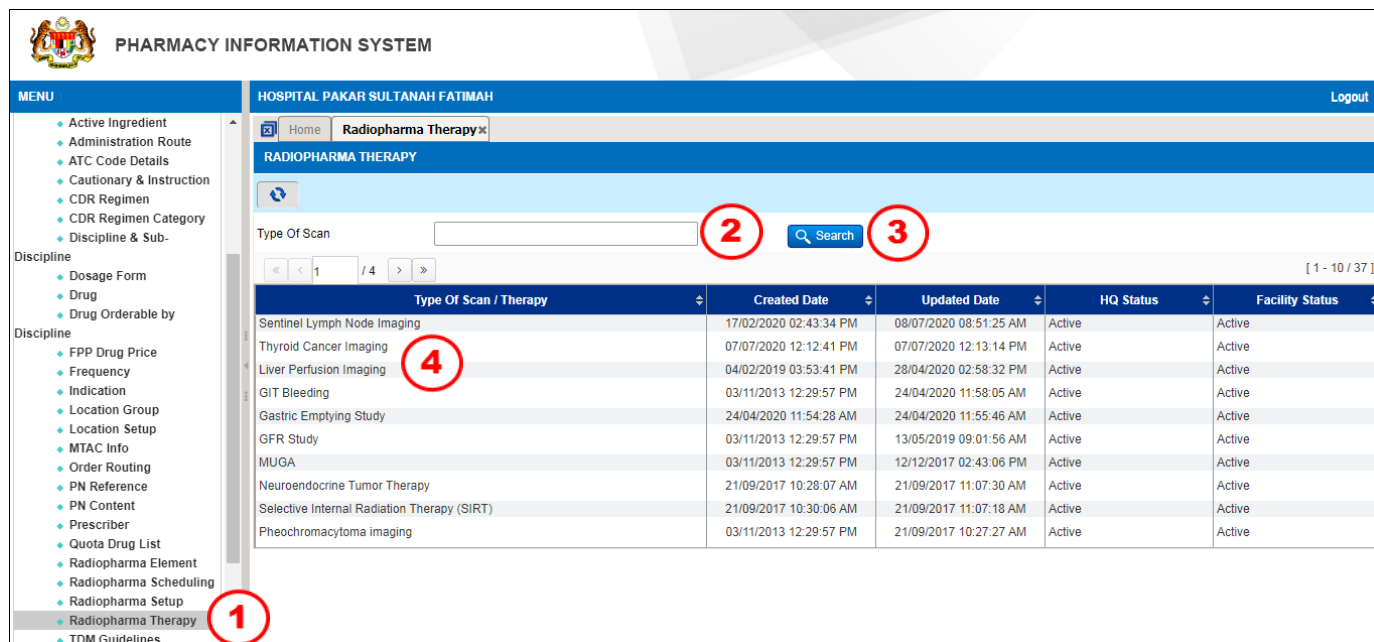
Figure 3.24-2 Radiopharma Setup

STEP 5

Click on the button and to close record

3.25 Radiopharma Therapy

To view and edit Radiopharma Therapy



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home Radiopharma Therapy

RADIOPHARMA THERAPY

Type Of Scan

< 1 / 4 >

Type Of Scan / Therapy	Created Date	Updated Date	HQ Status	Facility Status
Sentinel Lymph Node Imaging	17/02/2020 02:43:34 PM	08/07/2020 08:51:25 AM	Active	Active
Thyroid Cancer Imaging	07/07/2020 12:12:41 PM	07/07/2020 12:13:14 PM	Active	Active
Liver Perfusion Imaging	04/02/2019 03:53:41 PM	28/04/2020 02:58:32 PM	Active	Active
GIT Bleeding	03/11/2013 12:29:57 PM	24/04/2020 11:58:05 AM	Active	Active
Gastric Emptying Study	24/04/2020 11:54:28 AM	24/04/2020 11:55:46 AM	Active	Active
GFR Study	03/11/2013 12:29:57 PM	13/05/2019 09:01:56 AM	Active	Active
MUGA	03/11/2013 12:29:57 PM	12/12/2017 02:43:06 PM	Active	Active
Neuroendocrine Tumor Therapy	21/09/2017 10:28:07 AM	21/09/2017 11:07:30 AM	Active	Active
Selective Internal Radiation Therapy (SIRT)	21/09/2017 10:30:06 AM	21/09/2017 11:07:18 AM	Active	Active
Pheochromocytoma imaging	03/11/2013 12:29:57 PM	21/09/2017 10:27:27 AM	Active	Active

Figure 3.25-1 Radiopharma Therapy

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'Radiopharma Therapy'

STEP 2

Click on button to search existing record based on below search criteria:

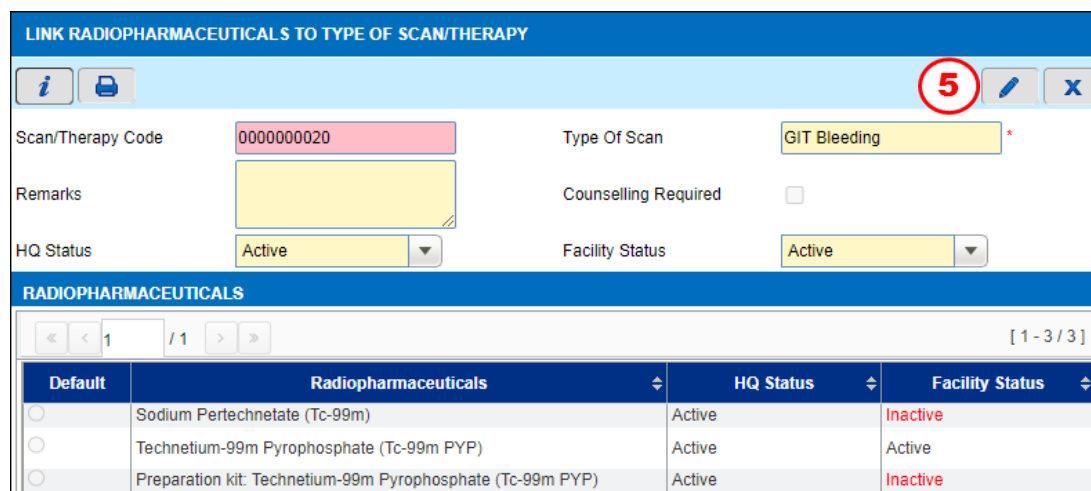
a) Type of scans

STEP 3

Click on button to find Radiopharma Therapy

STEP 4

Double click on selected Type of Scans/Therapy to view the record



LINK RADIOPHARMACEUTICALS TO TYPE OF SCAN/THERAPY

Scan/Therapy Code: 0000000020 Type Of Scan: GIT Bleeding

Remarks: Counselling Required: ☐

HQ Status: Active Facility Status: Active

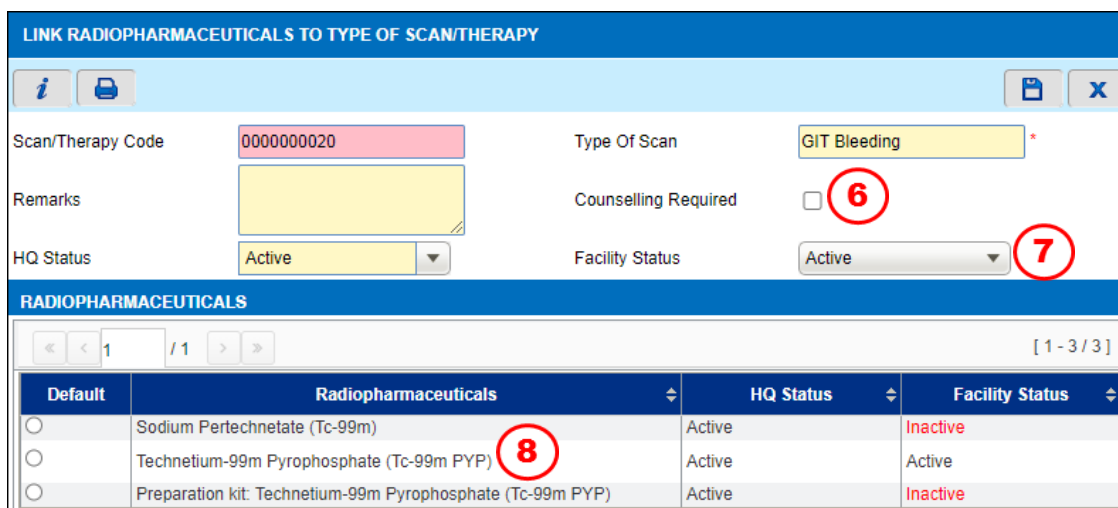
RADIOPHARMACEUTICALS

Default	Radiopharmaceuticals	HQ Status	Facility Status
☐	Sodium Pertechnetate (Tc-99m)	Active	Inactive
☐	Technetium-99m Pyrophosphate (Tc-99m PYP)	Active	Active
☐	Preparation kit: Technetium-99m Pyrophosphate (Tc-99m PYP)	Active	Inactive

Figure 3.25-2 Radiopharma Therapy

STEP 5

Click  button to proceed with editing



Default	Radiopharmaceuticals	HQ Status	Facility Status
☐	Sodium Pertechnetate (Tc-99m)	Active	Inactive
☐	Technetium-99m Pyrophosphate (Tc-99m PYP)	Active	Active
☐	Preparation kit: Technetium-99m Pyrophosphate (Tc-99m PYP)	Active	Inactive

Figure 3.25-3 Radiopharma Therapy

STEP 6

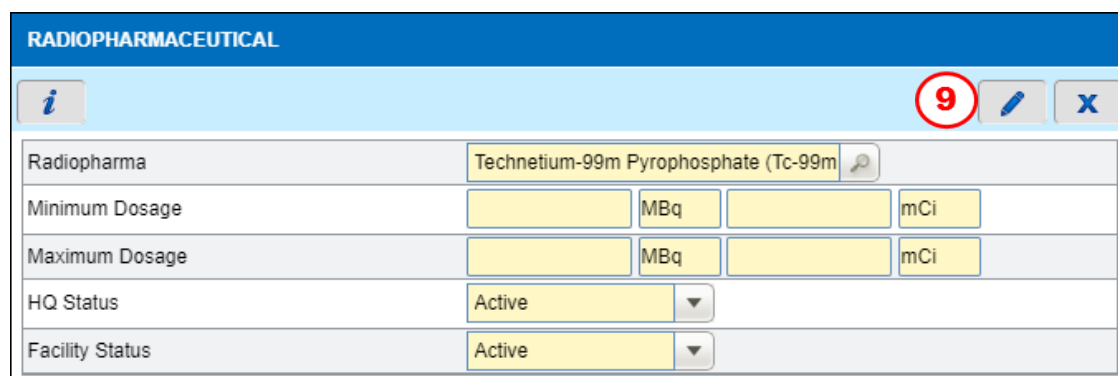
Click the check box to indicate that the Radiopharmaceuticals require counselling [optional]

STEP 7

Click to Change Facility Status

STEP 8

Click on Radiopharmaceutical record to edit



Radiopharma	Technetium-99m Pyrophosphate (Tc-99m)		
Minimum Dosage		MBq	mCi
Maximum Dosage		MBq	mCi
HQ Status	Active		
Facility Status	Active		

Figure 3.25-4 Radiopharma Therapy

STEP 9

Click on  button to edit

RADIOPHARMACEUTICAL			
 12   13			
Radiopharma	Technetium-99m Pyrophosphate (Tc-99m)		
Minimum Dosage	10	MBq	mCi
Maximum Dosage		MBq	mCi
HQ Status	Active		
Facility Status	11	Active	

Figure 3.25-5 Radiopharma Therapy

STEP 10

Input value according to facility for Minimum Dosage and Maximum Dosage

STEP 11

Click to Change Facility Status

STEP 12

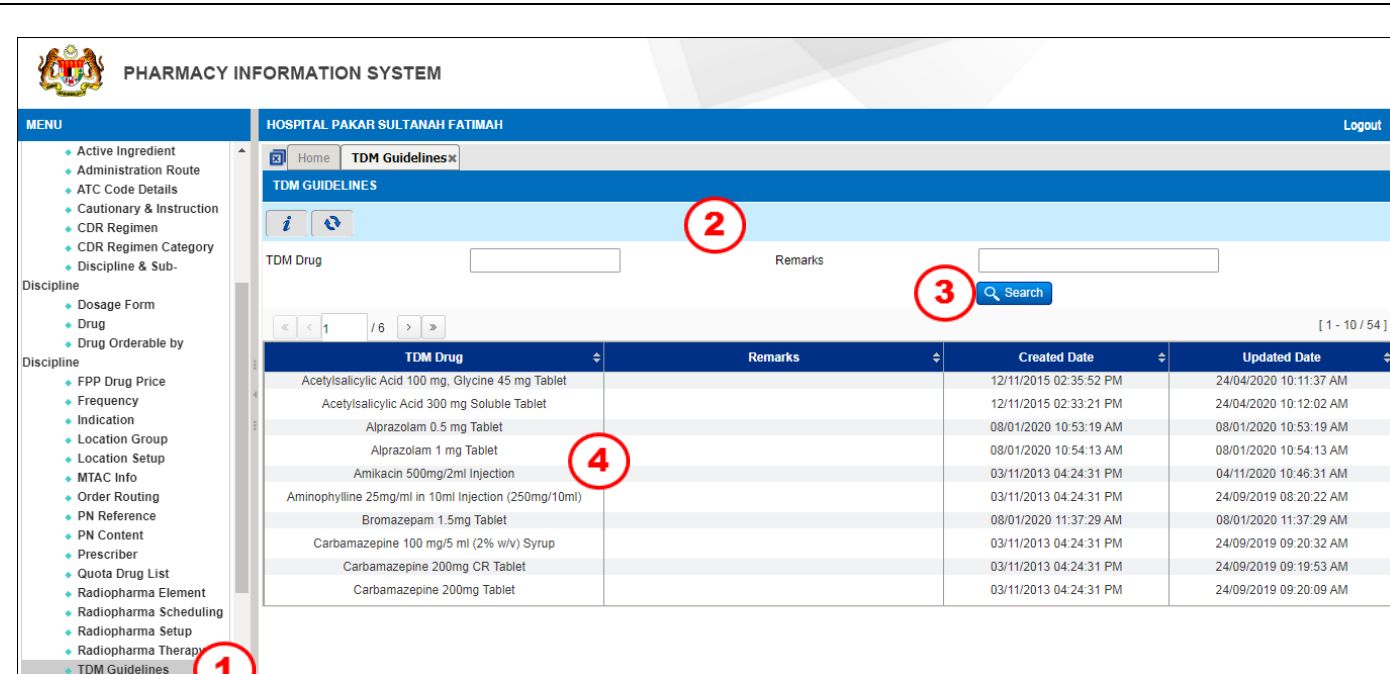
Click  button to save and complete the process.

STEP 13

Click on the  button and to close record.

3.26 TDM Guidelines

To view TDM Guideline



PHARMACY INFORMATION SYSTEM

HOSPITAL PAKAR SULTANAH FATIMAH

Logout

Home TDM Guidelines

TDM GUIDELINES

TDM Drug Remarks

[1 - 10 / 54]

TDM Drug	Remarks	Created Date	Updated Date
Acetylsalicylic Acid 100 mg, Glycine 45 mg Tablet		12/11/2015 02:35:52 PM	24/04/2020 10:11:37 AM
Acetylsalicylic Acid 300 mg Soluble Tablet		12/11/2015 02:33:21 PM	24/04/2020 10:12:02 AM
Alprazolam 0.5 mg Tablet		08/01/2020 10:53:19 AM	08/01/2020 10:53:19 AM
Alprazolam 1 mg Tablet		08/01/2020 10:54:13 AM	08/01/2020 10:54:13 AM
Amikacin 500mg/2ml Injection		03/11/2013 04:24:31 PM	04/11/2020 10:46:31 AM
Aminophylline 25mg/ml in 10ml Injection (250mg/10ml)		03/11/2013 04:24:31 PM	24/09/2019 08:20:22 AM
Bromazepam 1.5mg Tablet		08/01/2020 11:37:29 AM	08/01/2020 11:37:29 AM
Carbamazepine 100 mg/5 ml (2% w/v) Syrup		03/11/2013 04:24:31 PM	24/09/2019 09:20:32 AM
Carbamazepine 200mg CR Tablet		03/11/2013 04:24:31 PM	24/09/2019 09:19:53 AM
Carbamazepine 200mg Tablet		03/11/2013 04:24:31 PM	24/09/2019 09:20:09 AM

Figure 3.26-1 TDM Guideline

STEP 1

Click on 'Maintenance' menu follow by 'Pharmacy' sub-menu and click on 'TDM Guideline'

STEP 2

Key in the name of TDM drug

STEP 3

Click on button to find TDM drug

STEP 4

Double click on selected TDM drug

Note

- The Figure 3.26-2 show the TDM Guideline Detail

TDM GUIDELINE			
TDM Drug	Acetylsalicylic Acid 100 mg, Glyc	Total Cost of Analysis(RM)	0
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 / 1]			
Sampling Type	After/Before	Default time	Lab Order
Random	AFTER	1 MINUTES	Salicylate Random
Therapeutic Range	UOM	Updated On	
4 hours after ingestion	mcg/ml	12/11/2015	

Figure 3.26-2 TDM Guideline Detail

STEP 5

Double click on sampling type to view the detail as figure 3.26-3

TDM GUIDELINE DETAIL			
Sampling Type	Random	Lab Order	Salicylate Random
Default Time(HH:MM)	1 Minutes	After/Before	After
UOM	mcg/ml	Therapeutic Range	4 hours after ingestion

Figure 3.26-3 TDM Guideline Detail

4.0 Acronyms

Abbreviation	Definition
HQ	Project Team
MOH	Ministry of Health
KKM	Kementerian Kesihatan Malaysia
PhIS	Pharmacy Information System
CPS	Clinical Pharmacy System
PKU	Packaging Keeping Unit
SKU	Store Keeping Unit
TDM	Therapeutic Drug Monitoring
CDR	Cytotoxic Drug Reconstitution