



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

Full Based User Manual Order Management - Cytotoxic Drug Reconstitution (CDR)

Version	: 8th EDITION
Document ID	: FB_U. MANUAL_OM CDR



PhIS & CPS Project
User Manual – Order Management Cytotoxic Drug Reconstitution
(CDR)



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Table of Contents

1.0	Introduction	1
1.1	Overview of PhIS.....	1
1.2	Purpose and Objectives	1
1.3	Organised Sections.....	1
2.0	Application Standard Features	2
2.1	PhIS Legend.....	2
2.2	Latest Enhancement and Updates	4
3.0	Cytotoxic Drug Reconstitution (CDR)	1
	Overview	1
	User Group.....	1
	Functional Diagram.....	1
	Functional Description	2
3.1	Cytotoxic Drug Reconstitution Order	3
3.2	Manage Prescription.....	18
3.2.1	Modify Order	18
3.2.2	Hold/Resume Order	21
3.2.3	Cancel/Stop Order.....	24
3.3	Order Endorsement.....	26
3.4	Authorisation.....	29
4.0	Acronyms.....	32
5.0	Links to Clinical Modules.....	32

1.0 Introduction

1.1 Overview of PhIS

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

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

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

1.2 Purpose and Objectives

This user manual outlines the Cytotoxic Drug Reconstitution sub-module and its key features and functionalities. The primary objective is to guide user through the process of completing PhIS application process.

User will understand the following activities in details:

- Cytotoxic Drug Reconstitution Order
- Manage Prescription
- Order Endorsement
- Order Authorisation

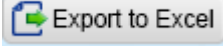
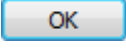
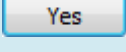
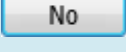
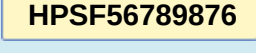
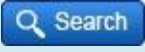
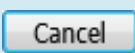
1.3 Organised Sections

These are the sections within this document:

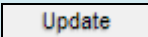
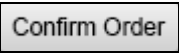
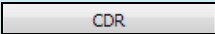
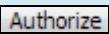
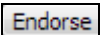
- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : Cytotoxic Drug Reconstitution
- Section 4 : Acronyms
- Section 5 : Links to Clinical Modules

2.0 Application Standard Features

2.1 PhIS Legend

Standard Legend			
	Login to PhIS		Logout from PhIS
	Close All Open Tabs		Refresh Screen
	Expand Menu		Collapse Menu
	Expand Module		Collapse Module
	Add/Create New Record		Save
	Close Window		Calendar Icon
	Save Transaction		Delete Record
	Export Report From PDF file to Excel file		OK Button
	Yes Button		No Button
	Radio Button		Checkbox
	System Automatic Generate Record No.		Automatically Display/Retrieve Box
	Reset Login Screen		Show Help
	Display Home Tab		Search Record
	Cancel		Dropdown Box
	Search Icon		Mandatory Field
	Edit Record		Empty Text Box
	Cancel Button		

Module Legend

	Update Patient's Height and Weight	Regimen Details	Display Regimen Details
	Update Sampling Details		Confirm Order
AUC Calculator	AUC Calculator		Save Record
Basic Search	Basic Search	Advanced Search	Advanced Search
	Display CDR Order Screen		Authorize Order
	Endorse Order		

Note

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



2.2 Latest Enhancement and Updates

<u>LATEST FUNCTIONS</u>	<u>PAGE</u>
Calculate dose using function	<u>8</u>
Search Regimen	<u>9</u>
AUC Calculator	<u>16</u>

3.0 Cytotoxic Drug Reconstitution (CDR)

Overview

The Order Management – Cytotoxic Drug Reconstitution (CDR) module handles all the information to specify the items as per local drug formulary, MOH and non-MOH including registered and non-registered drugs. This function is to enable data mining. All medication orders must be prescribed by authorized personnel only and be in compliance with guidelines on prescribing in the drug formulary (drug category, discipline / specialty) as defined by MOH.

User Group

This module is intended for Specialist, Doctor, Medical Officer and Medical Assistant.

Functional Diagram

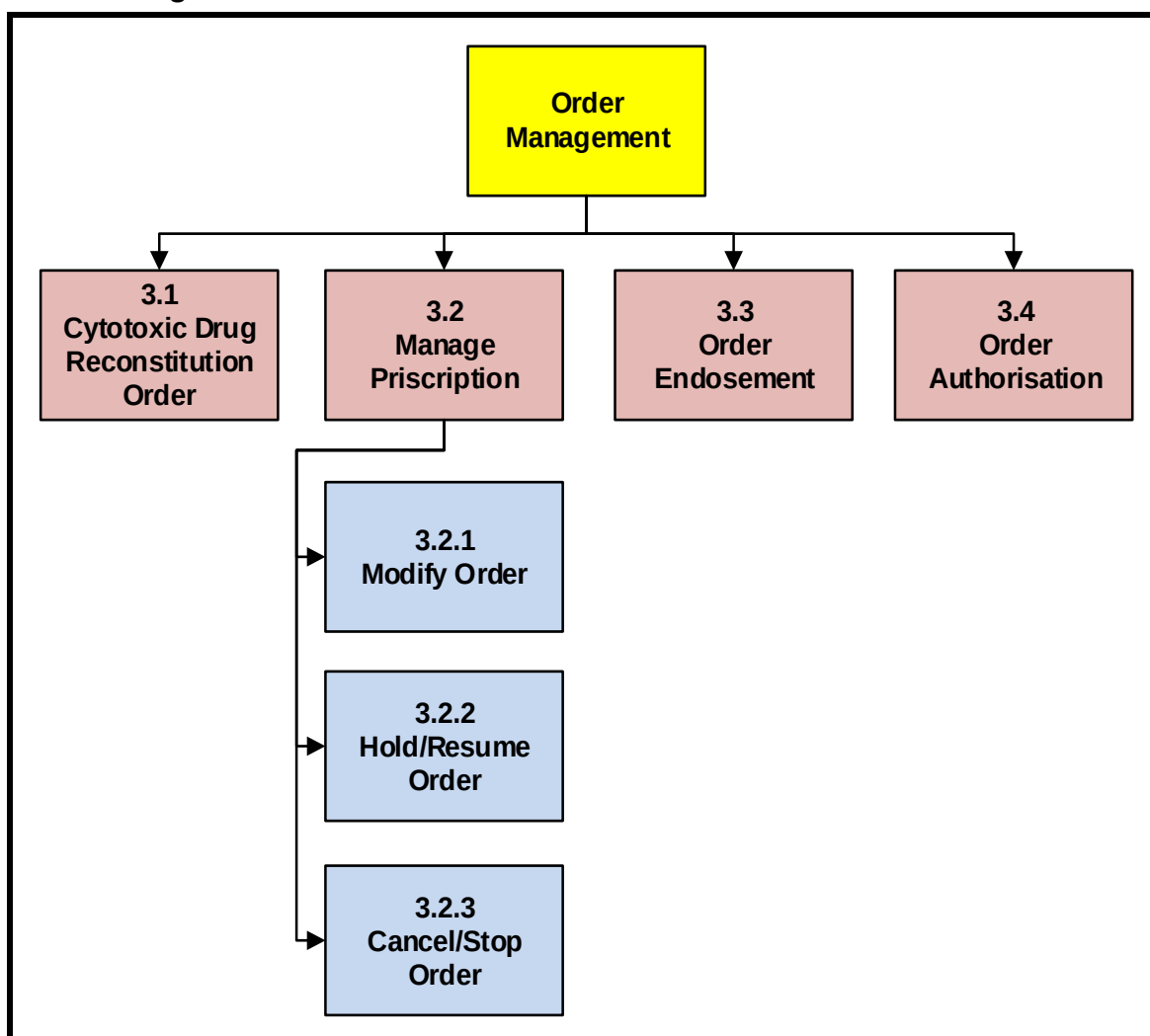


Figure 3.0

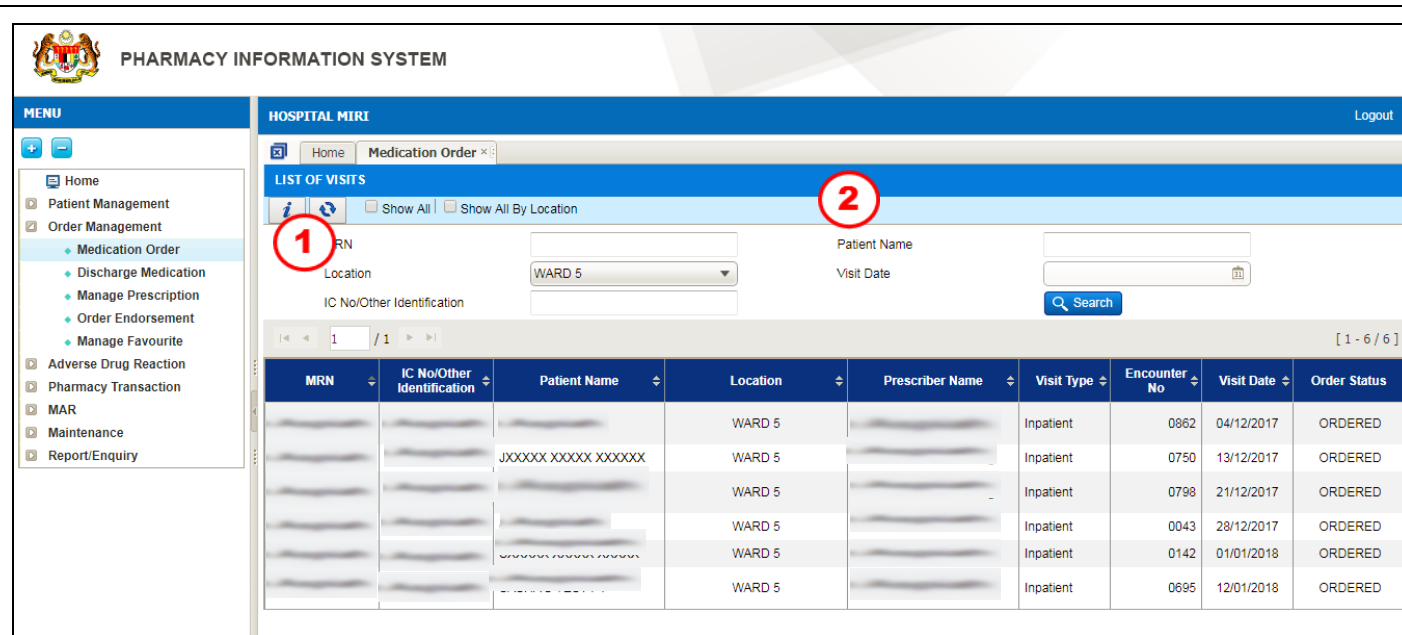
Functional Description

Cytotoxic Drug Reconstitution (CDR) comprises of four (4) main functions:

- **Cytotoxic Drug Reconstitution (CDR) Order**
CDR Order is used to prescribe Chemotherapy Drug.
- **Manage Prescription**
This function to monitor patient's prescription including modify order, hold/resume order- and cancel/stop order.
- **Order Endorsement**
Order endorsement is used to notify the prescriber of prescription changes made by the pharmacist.
The prescriber may endorse the intervention made by the pharmacist.
- **Order Authorisation**
This function is used to approve list A/ A*/ A/KK drugs that require authorization

3.1 Cytotoxic Drug Reconstitution Order

CDR Order allows Prescriber to place a cytotoxic order. Order will be sent to Pharmacist for the process of verification, preparation and dispensing.



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Medication Order x

LIST OF VISITS

1 ☐ Show All ☐ Show All By Location

2 MRN Patient Name

Location Visit Date

IC No/Other Identification

[1 - 6 / 6]

MRN	IC No/Other Identification	Patient Name	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
			WARD 5		Inpatient	0862	04/12/2017	ORDERED
	JXXXXX XXXXX XXXXXX		WARD 5		Inpatient	0750	13/12/2017	ORDERED
			WARD 5		Inpatient	0798	21/12/2017	ORDERED
			WARD 5		Inpatient	0043	28/12/2017	ORDERED
			WARD 5		Inpatient	0142	01/01/2018	ORDERED
			WARD 5		Inpatient	0695	12/01/2018	ORDERED

Figure 3.1-1 Medication Order Listing Page

STEP 1

Click on the 'Order Management' menu followed by 'Medication Order' sub menu

STEP 2

Search patients record based on the fields below:

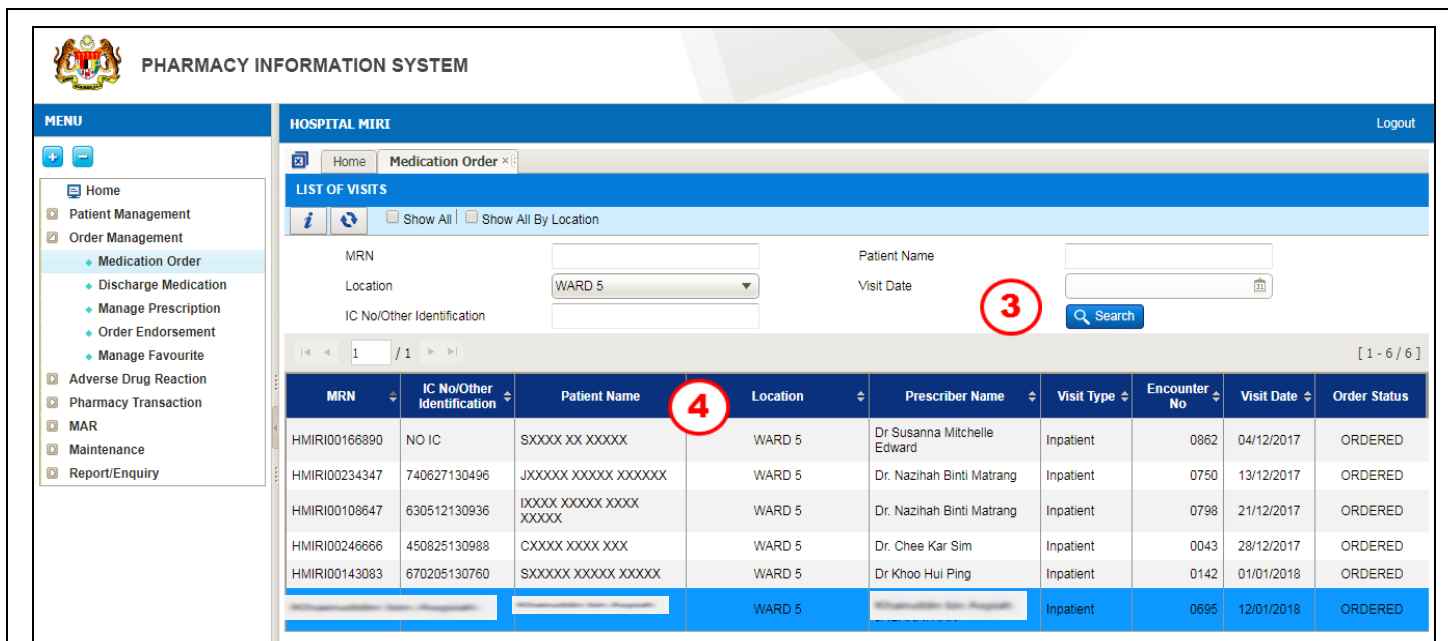
No	Field	Description	Remark
a	MRN	Patient Medical Record Number	Search option: • Type the MRN either in full or partially: <i>Example : HPSF00001234 or "1234"</i>
b	Patient Name	Patient Name	Allow to search by fully or partially entered patient name
c	Location	Patient Visit Location	Able to filter and search patient by visit location and prescriber's location
d	Visit Date	Visit Date	Able to filter and search by visit date
e	IC No/Other Identification	Patient Identification No	Allow to search by fully or partially entered patient ID no

Table 3.1-1

Note

Prescriber have the options to view patient by clicking on the checkbox:

- ☐ Show All - click on the checkbox to view all patients based on prescriber login.
- ☐ Show All By Location - click on the checkbox to view patients by location assigned based on prescriber login



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Medication Order

LIST OF VISITS

Show All Show All By Location

MRN Patient Name

Location WARD 5 Visit Date

IC No/Other Identification Search

[1 - 6 / 6]

MRN	IC No/Other Identification	Patient Name	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
HMIRI00166890	NO IC	SXXXX XX XXXXX	WARD 5	Dr Susanna Mitchell Edward	Inpatient	0862	04/12/2017	ORDERED
HMIRI00234347	740627130496	JXXXXX XXXXX XXXXXX	WARD 5	Dr. Nazihah Binti Matrang	Inpatient	0750	13/12/2017	ORDERED
HMIRI00108647	630512130936	IXXXX XXXXX XXXX XXXXX	WARD 5	Dr. Nazihah Binti Matrang	Inpatient	0798	21/12/2017	ORDERED
HMIRI00246666	450825130988	CXXXX XXXX XXX	WARD 5	Dr. Chee Kar Sim	Inpatient	0043	28/12/2017	ORDERED
HMIRI00143083	670205130760	SXXXXX XXXXX XXXXX	WARD 5	Dr Khoo Hui Ping	Inpatient	0142	01/01/2018	ORDERED
			WARD 5		Inpatient	0695	12/01/2018	ORDERED

Figure 3.1-2 Medication Order Listing Page

STEP 3

Click on the  button to search for patient

Note

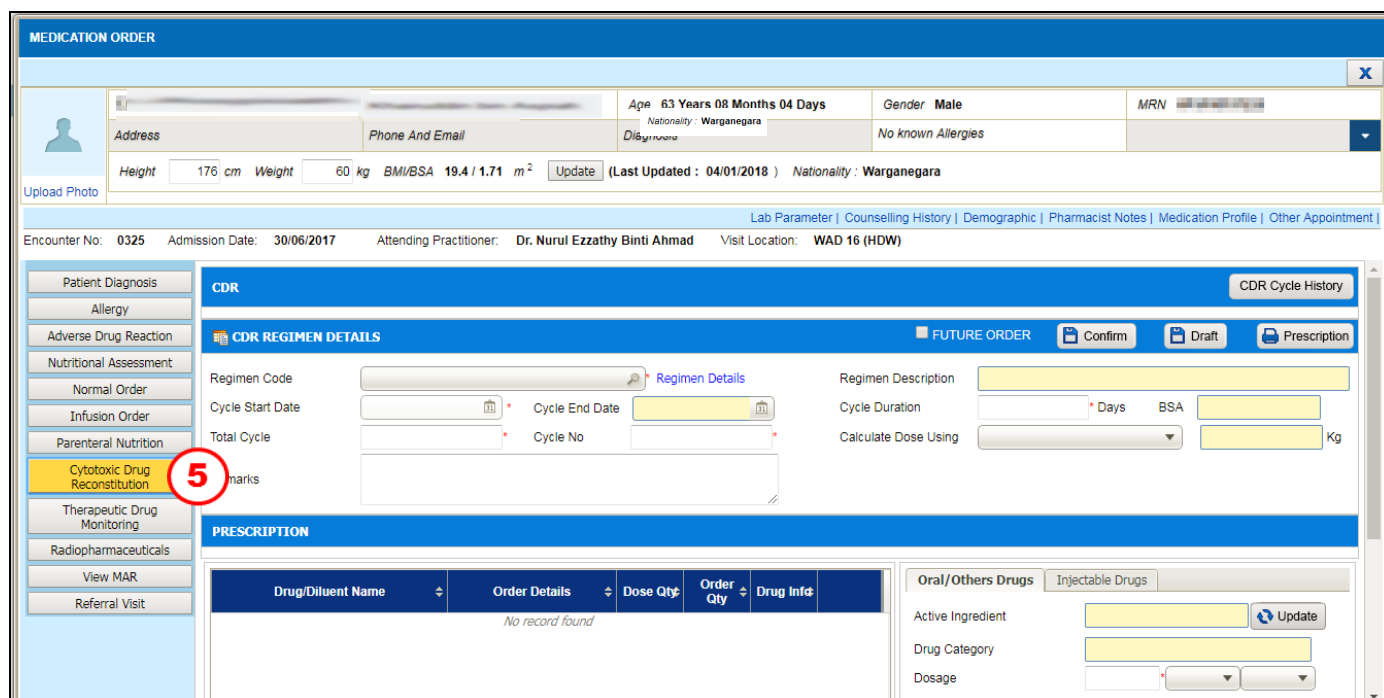
- Search results of patient record list will display:
 - MRN
 - IC No/Other Identification
 - Patient Name
 - Location
 - Prescriber Name
 - Visit Type
 - Encounter No
 - Visit Date
 - Order Status
- Order Status = 'Ordered', confirmed prescription.
- Order Status = 'Draft', prescription is saved but have not been confirmed.

STEP 4

Double click on the selected patient record and Medication Order screen will display as shown in Figure 3.1-3

Note

Patient Diagnosis is mandatory for each patient visit and Patient Allergies is mandatory for a newly registered patient.



MEDICATION ORDER

Address: [Redacted] Phone And Email: [Redacted] Age: 63 Years 08 Months 04 Days Gender: Male MRN: [Redacted]

Height: 176 cm Weight: 60 kg BMI/BSA: 19.4 / 1.71 m² Update (Last Updated: 04/01/2018) Nationality: Warganegara

Encounter No: 0325 Admission Date: 30/06/2017 Attending Practitioner: Dr. Nurul Ezzathy Binti Ahmad Visit Location: WAD 16 (HDW)

CDR CDR Cycle History

CDR REGIMEN DETAILS FUTURE ORDER Confirm Draft Prescription

Regimen Code: [Redacted] Regimen Details Regimen Description: [Redacted]

Cycle Start Date: [Redacted] Cycle End Date: [Redacted] Cycle Duration: [Redacted] Days BSA: [Redacted]

Total Cycle: [Redacted] Cycle No: [Redacted] Calculate Dose Using: [Redacted] Kg

PRESCRIPTION

Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info
No record found				

Oral/Others Drugs Injectible Drugs

Active Ingredient: [Redacted] Update

Drug Category: [Redacted]

Dosage: [Redacted]

Figure 3.1-3 Medication Order

STEP 5

Click on the **Cytotoxic Drug Reconstitution** button to display CDR Order screen

Note

CDR Order screen consist of:

- **Patient's Banner**



MEDICATION ORDER

Address: [Redacted] Phone And Email: [Redacted] Age: 38 Years 09 Days Gender: Female MRN: HPSF00084282

Height: 158 cm Weight: 56 kg BMI/BSA: 22.4 / 1.59 m² Update (Last Updated: 18/05/2015) Nationality: Warganegara

Diagnosis: [Redacted] Known Allergies

Figure 3.1-4 Patient's Banner

- Patient's banner will be displayed at the specific screen with required patient information. User can update patient's height and weight. Below is the list of patient information:
- Patient Name
- Patient IC Number
- Patient Diagnosis
- Patient Age
- Patient Allergy
- Patient Gender
- Patient MRN
- Patient Address
- Patient Phone and Email
- Height and Weight

- **Visit Record**

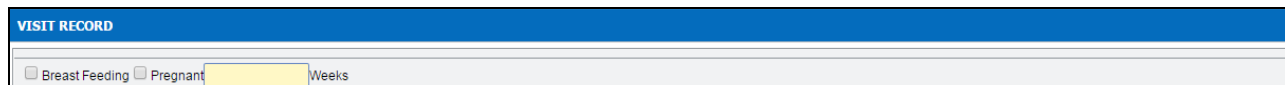


Figure 3.1-5 Visit Record

- Visit Record will display **Breast Feeding** and **Pregnant** ☐ checkboxes only if the patient is a female.

- **CDR Regimen Details**

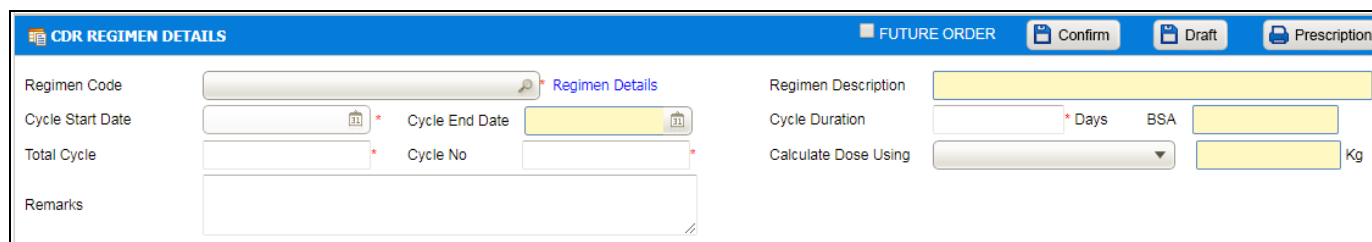


Figure 3.1-6 CDR Regimen Details

- CDR Regimen Details consists of:

- Regimen Code
- Regimen Details Hyperlink
- Regimen Description
- Cycle Start Date
- Cycle End date
- Cycle Duration
- BSA
- Total Cycle
- Cycle No
- Calculate Dose Using
- Remarks

- **Prescriptions**

Prescriptions consists of:

- Oral/Others Drugs
- Injectable Drugs
- Drug/Diluent Name
- Other Details
- Dose Qty (Quantity)
- Order Qty (Quantity)
- Drug Info

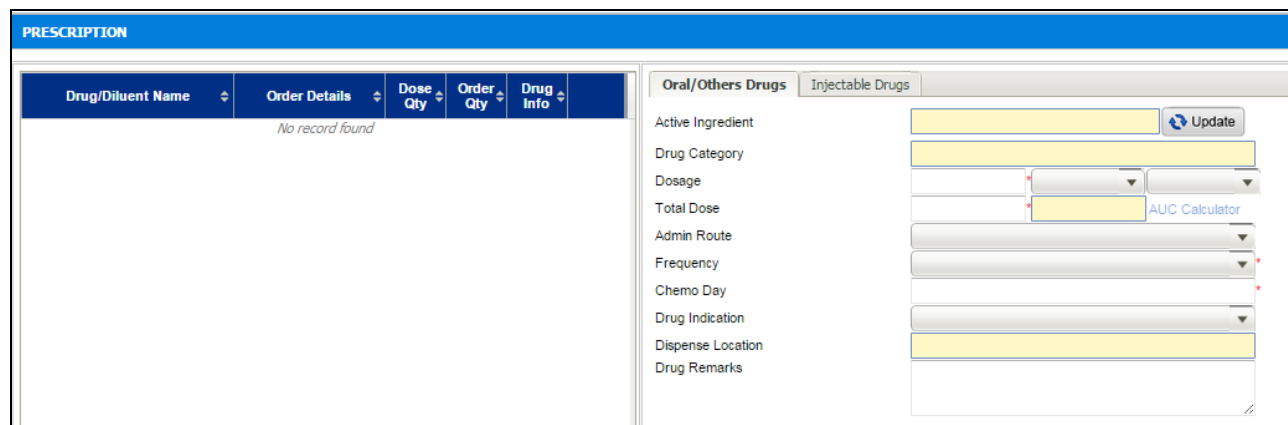


Figure 3.1-7 Prescriptions

- **Regimen Drug Details**

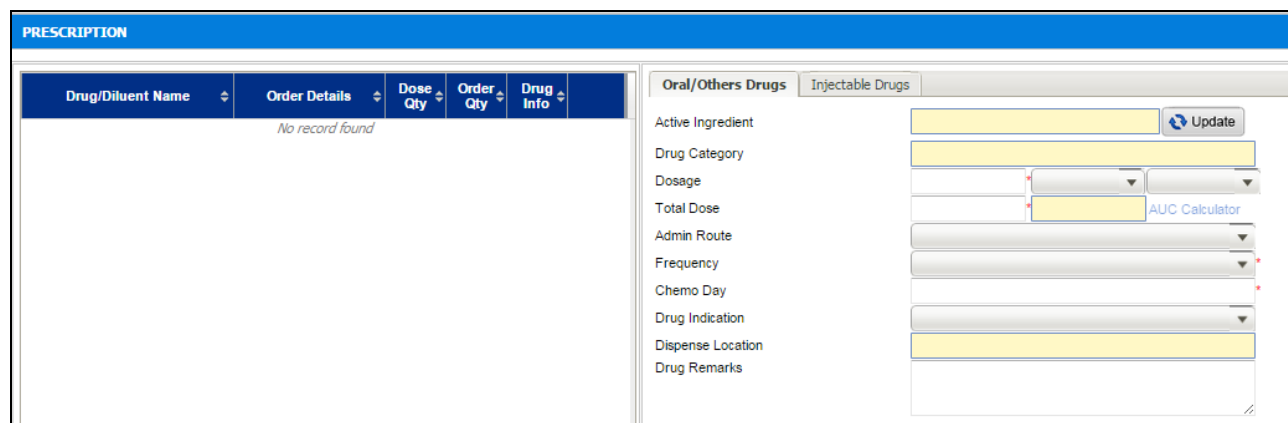
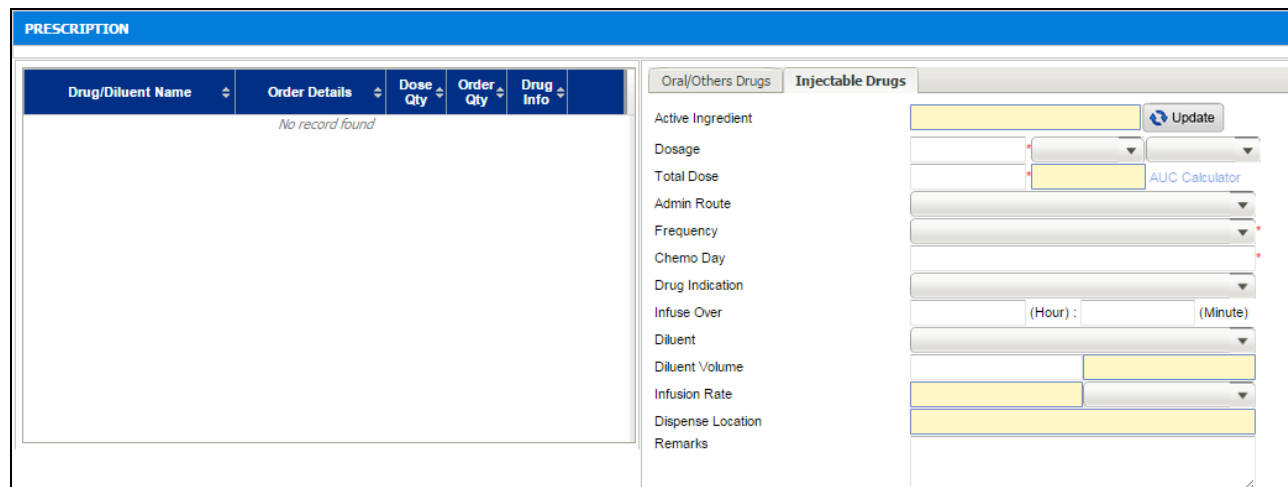


Figure 3.1-8 Regimen Drug Details : Oral/Others Drugs

- *Regimen Drug Details consists of two(2) tabs:*

- *Oral/Others Drugs:*
 - *Active Ingredient*
 - *Drug Category*
 - *Dosage*
 - *Total Dose*
 - *AUC Calculator*
 - *Admin Route*
 - *Frequency*
 - *Chemo Day*
 - *Drug Indication*
 - *Dispense Location*
 - *Drug Remarks*



Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info
No record found				

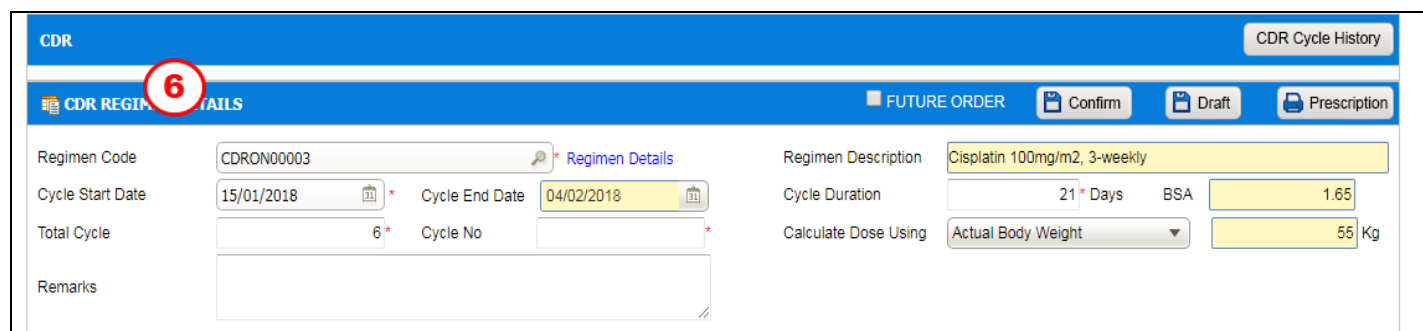
Oral/Other Drugs
Injectable Drugs

Active Ingredient
Dosage
Total Dose
Admin Route
Frequency
Chemo Day
Drug Indication
Infuse Over (Hour) : (Minute)
Diluent
Diluent Volume
Infusion Rate
Dispense Location
Remarks

Update
AUC Calculator

Figure 3.1-9 Regimen Drug Details: Injectable Drugs

- *Injectable Drugs:*
- *Active Ingredient*
- *Dosage*
- *Total Dose*
- *AUC Calculator*
- *Admin Route*
- *Frequency*
- *Chemo Day*
- *Drug Indication*
- *Infuse Over*
- *Diluent*
- *Diluent Volume*
- *Infusion Rate*
- *Dispense Location*
- *Drug Remarks*



CDR
CDR Cycle History

CDR REGIMEN DETAILS
FUTURE ORDER
Confirm
Draft
Prescription

Regimen Code: CDRON0003
Regimen Description: Cisplatin 100mg/m2, 3-weekly

Cycle Start Date: 15/01/2018
Cycle End Date: 04/02/2018
Cycle Duration: 21 * Days
BSA: 1.65

Total Cycle: 6
Cycle No:
Calculate Dose Using: Actual Body Weight
55 Kg

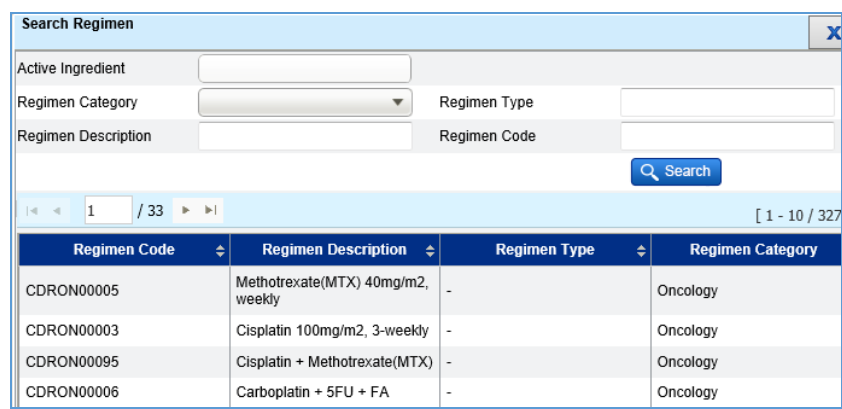
Remarks:

Figure 3.1-10 CDR Regimen Details

STEP 6

Search and select **Regimen Code** from dropdown box to display CDR regimen details (refer to Figure 3.1-11:Search Regimen screen) based on:

- Active Ingredient
- Regimen Category
- Regimen Type
- Regimen Code
- Regimen Description

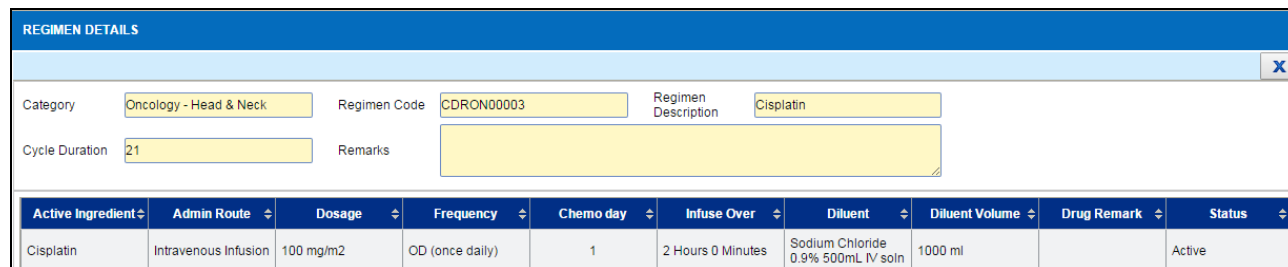


Regimen Code	Regimen Description	Regimen Type	Regimen Category
CDRON00005	Methotrexate(MTX) 40mg/m2, weekly	-	Oncology
CDRON00003	Cisplatin 100mg/m2, 3-weekly	-	Oncology
CDRON00095	Cisplatin + Methotrexate(MTX)	-	Oncology
CDRON00006	Carboplatin + 5FU + FA	-	Oncology

Figure 3.1-11 CDR Search Regimen

Note

- **Total Cycle** is defaulted to the Cycle History and it is editable.
- **Cycle No** field need to be entered by user.
- **Cycle Duration** is defaulted to the value setup in CDR Regimen Category and it is editable.
- **Cycle Start Date** is defaulted to the current system date and it is editable.
- **Cycle End Date** will be automatically displayed based on the **Cycle Start Date** and **Cycle Duration**.
- Click on the **Regimen Details** hyperlink to view the Regimen Details as shown in Figure 3.1-12.

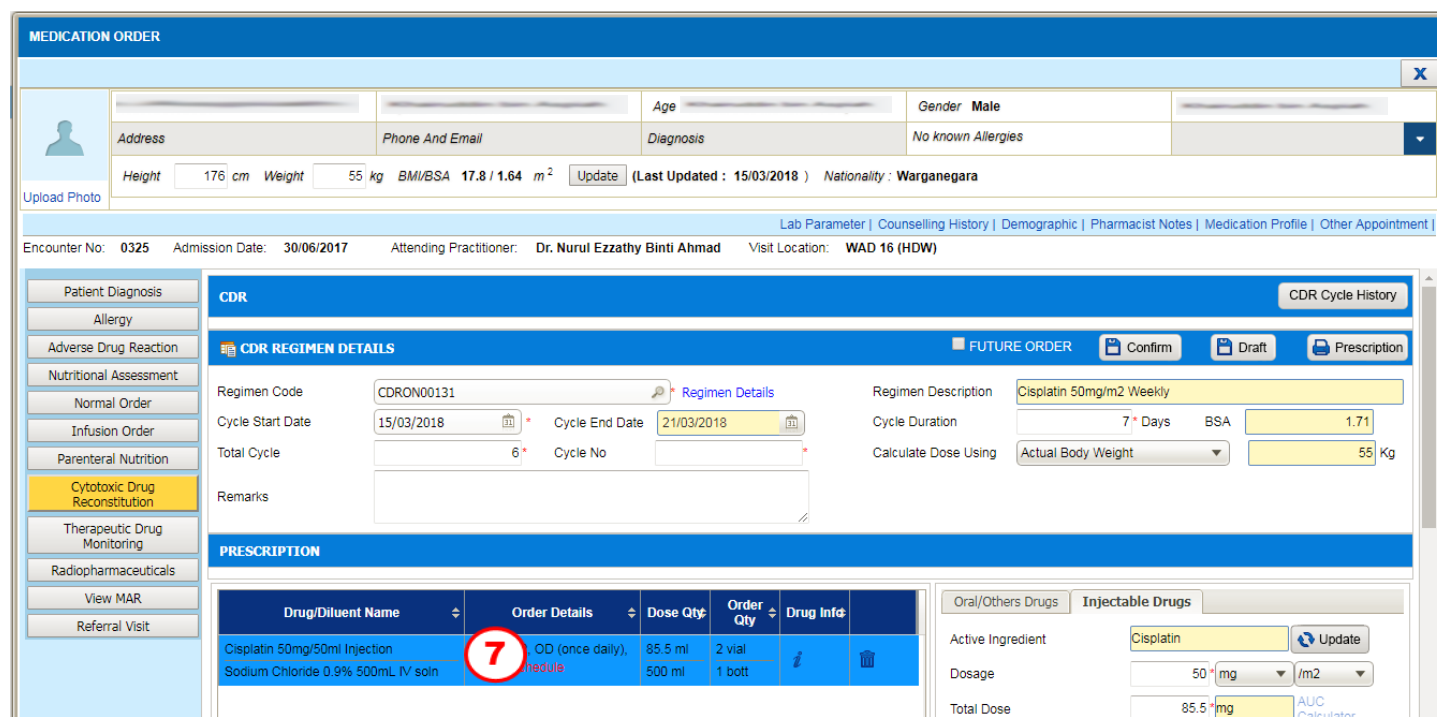


Active Ingredient	Admin Route	Dosage	Frequency	Chemo day	Infuse Over	Diluent	Diluent Volume	Drug Remark	Status
Cisplatin	Intravenous Infusion	100 mg/m2	OD (once daily)	1	2 Hours 0 Minutes	Sodium Chloride 0.9% 500mL IV soln	1000 ml		Active

Figure 3.1-12 Regimen Details

- Select **Calculate Dose Using** from dropdown box:
- Actual Body Weight
- Adjusted Body Weight
- Ideal Body Weight

- Double click on the **Oral/Others Drugs** or **Injectable Drugs** information row.
- System will automatically calculate the weight (kg) according to Calculate Dosage Using selected. It will give effect on Total Dose if user selects Dosage by per kg.



MEDICATION ORDER

Address: _____ Age: _____ Gender: **Male**

Phone And Email: _____ Diagnosis: _____ No known Allergies

Height: 176 cm Weight: 55 kg BMI/BSA: 17.8 / 1.64 m² Update (Last Updated : 15/03/2018) Nationality: Warganegara

Encounter No: 0325 Admission Date: 30/06/2017 Attending Practitioner: Dr. Nurul Ezzathy Binti Ahmad Visit Location: WAD 16 (HDW)

CDR CDR Cycle History

CDR REGIMEN DETAILS FUTURE ORDER Confirm Draft Prescription

Regimen Code: CDON00131 Regimen Details

Cycle Start Date: 15/03/2018 Cycle End Date: 21/03/2018

Total Cycle: 6 Cycle No: _____

Regimen Description: Cisplatin 50mg/m2 Weekly

Cycle Duration: 7 * Days BSA: 1.71

Calculate Dose Using: Actual Body Weight 55 Kg

Remarks: _____

PRESCRIPTION

Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info
Cisplatin 50mg/50ml Injection	OD (once daily), 7 module	85.5 ml	2 vial	
Sodium Chloride 0.9% 500mL IV soln		500 ml	1 bott	

Oral/Others Drugs Injectables Drugs

Active Ingredient: Cisplatin Update

Dosage: 50 mg /m2

Total Dose: 85.5 mg AUC Calculator

Figure 3.1-13 Prescriptions

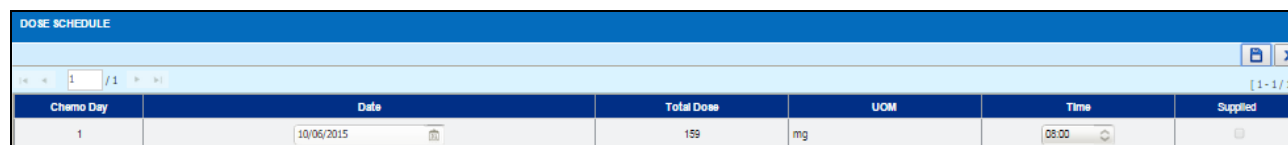
Note

When the Regimen Code is selected, the Drug/Diluent Name of the prescription will be automatically display as shown in Figure 3.1-13.

STEP 7

Double click on the row of the prescription to edit regimen drug details

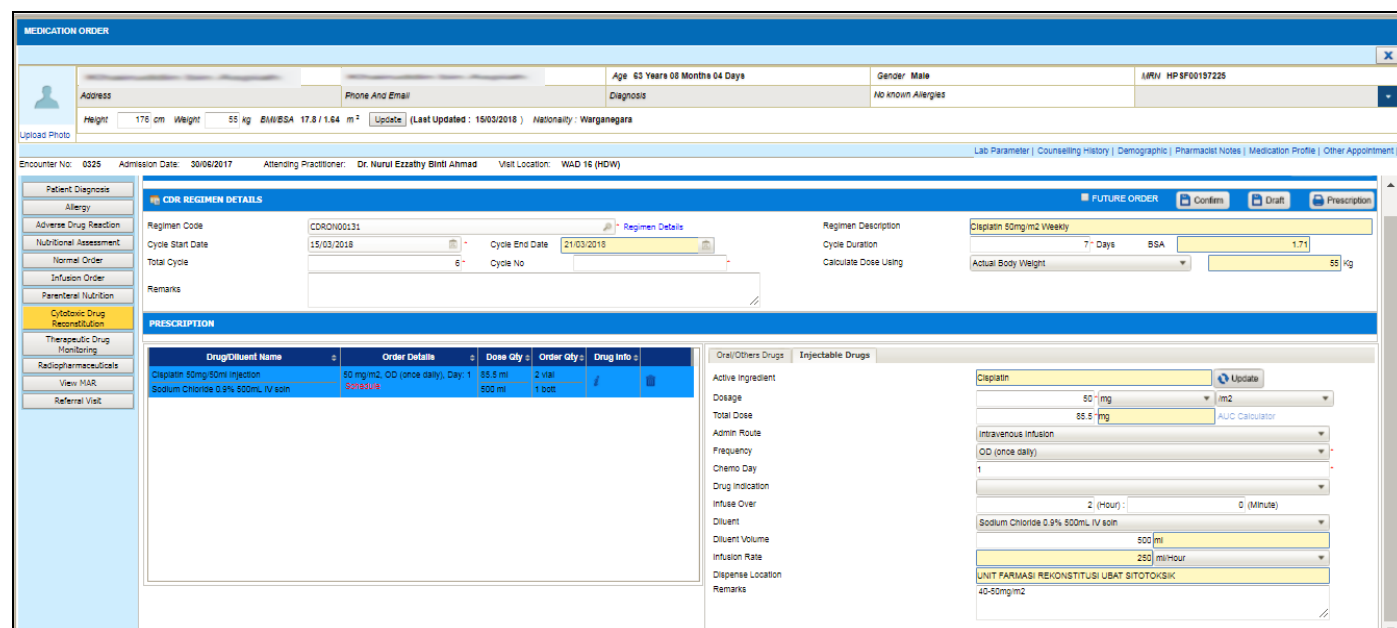
- Click on the  button to delete information if necessary.
- Click on the Schedule hyperlink in red color, the Dose Schedule screen will be displayed as shown in Figure 3.1-14.



Chemo Day	Date	Total Dose	UOM	Time	Supplied
1	10/06/2015	159	mg	08:00	

Figure 3.1-14 Dosage Schedule

- System will display prescriptions based on **Regimen Code** selected in CDR Regimen Details.
- System will display Regimen Drug Details based on **Regimen Code** selected as shown in Figure 3.1-15.



Medication Order

Address: [Redacted] Phone And Email: [Redacted] Age: 63 Years 08 Months 04 Days Gender: Male IIRN: HP500197225

Height: 175 cm Weight: 55 kg BMI/BSA: 17.8 / 1.94 m² Update (Last Updated: 15/03/2018) Nationality: Warganegara

Encounter No: 0325 Admission Date: 30/06/2017 Attending Practitioner: Dr. Nurul Ezahy Binti Ahmad Visit Location: WAD 16 (HDW)

CDR REGIMEN DETAILS

Regimen Code: CDRON00131 Regimen Description: Cisplatin 50mg/m2 Weekly

Cycle Start Date: 15/03/2018 Cycle End Date: 21/03/2018 Cycle Duration: 7 Days BSA: 1.71

Total Cycle: 6 Cycle No: Calculate Dose Using Actual Body Weight 55 kg

PRESCRIPTION

Drug/Chemical Name	Order Details	Dose Qty	Order Qty	Drug Info
Cisplatin 50mg/50ml injection	50 mg/m2, OD (once daily), Day 1	55.6 ml	2 vial	
Sodium Chloride 0.9% 500ml IV soln		500 ml	1 bott	

Injectable Drugs

Active Ingredient: Cisplatin Update

Dosage: 50 mg/m2

Total Dose: 55.6 mg AUC Calculator

Admin Route: Intravenous Infusion

Frequency: OD (once daily)

Chemo Day: 1

Drug Indication: 2 (Hour) 0 (Minute)

Infuse Over: Sodium Chloride 0.9% 500ml IV soln

Diluent: 500 ml

Diluent Volume: 250 ml/hour

Infusion Rate: UNIT FARMASI REKONSTITUSI UBAT SITOTOKSIK

Dispense Location: 40-50mg/m2

Remarks:

Figure 3.1-15 Regimen Drug Details : Injectable Drugs

Note

- User is allowed to edit or update Regimen Drug Details:
 - Dosage
 - Total Dose
 - Admin Route
 - Frequency
 - Chemo Day
 - Drug Indication
 - Infuse Over
 - Diluent
 - Diluent Volume
 - Drug Remarks
- If select **Dosage** 'kg' from dropdown menu, **Total Dose** will have displayed based on Calculate Dose Using selected previously in CDR Regimen Detail (Refer to Step 6).
- Click on the  button to save updated Regimen Drug Details.

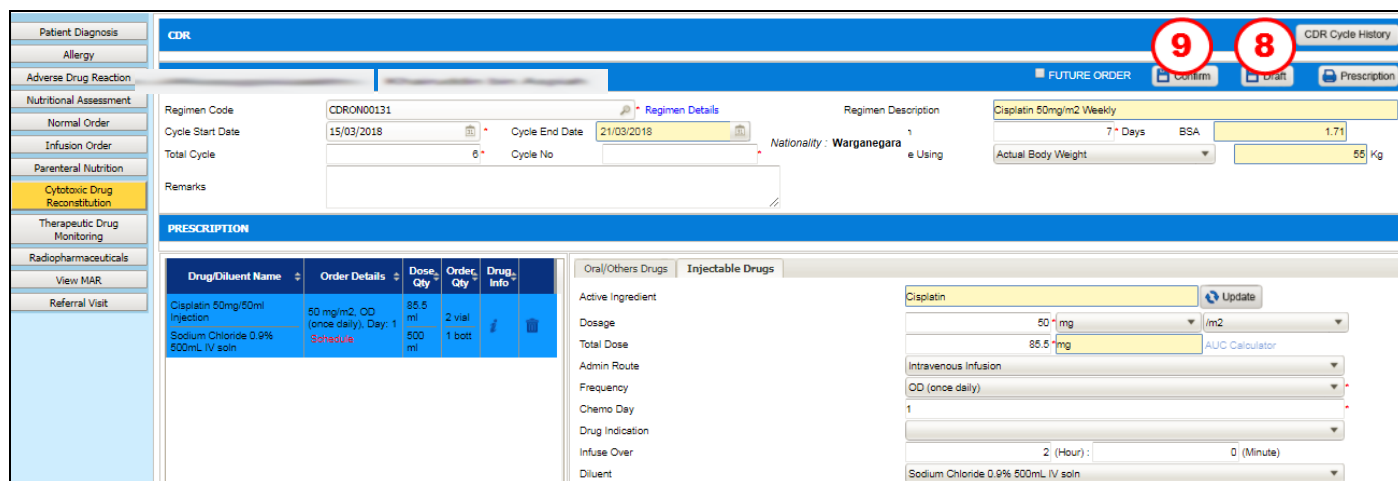
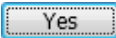


Figure 3.1-16 Medication Order

STEP 8

Click on the  button to save CDR order

Note

- Click on the  button to save order.

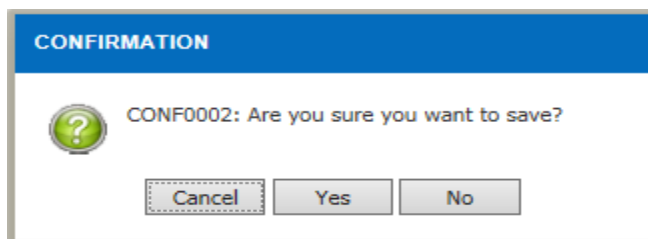


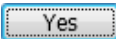
Figure 3.1-17 Confirm Record

- CDR order status will be set as "Draft".
- User is allowed to edit or modify order using this screen.

STEP 9

Click on the  button to confirm CDR order

Note

- Click on the  button to confirm order.

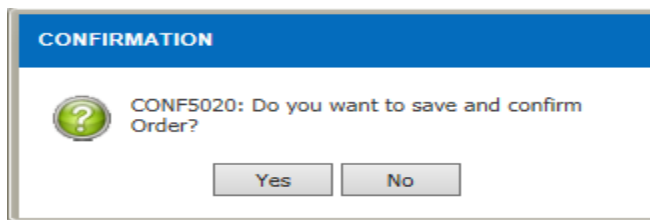
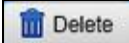


Figure 3.1-18 Confirm Record

- CDR order status will change to “Ordered” and user is not allowed to make changes.
- System will notify user if the CDR drug requires an authorisation before proceeding to CDR Admixture.
- The  check box is to allow user to create a future order and when patient arrive for chemo, the doctor/pharmacist will approve the order. If the future order is without approval, Pharmacist will not allow any transaction for it
- Click on the  button to delete record before order is confirmed.
- Click on the  button to print CDR prescription.

Ministry of Health, Malaysia
Hospital Pakar Sultanah Fatimah, Muar
Cytotoxic Drug Reconstitution

Patient Name :  Age : 29 Y 3 M 11 D Gender : Male Height/Weight/BSA : 173 cm / 80 kg / 1.98 m ² Allergy :	Patient ID :  MRN : HPSF00186853 Prescription # : MOPC0000876280 Order Date/Time : 19/07/2017 04:06 PM Location : KLINIK PAKAR PERUBATAN
---	--

Diagnosis : good Regimen Code : CDRON00003 Regimen Description : Cisplatin 100mg/m ² , 3-weekly Cycle Start Date : 19/07/2017	Cycle Duration : 21 Days Total Cycle : 6 Current Cycle : 2
---	--

Route	Drug Name	Dosage	Total Dose	Diluent	Diluent Vol	Frequency	Chemo Day
INF	Cisplatin	100 mg/m ²	198 mg	Sodium Chloride 0.9% 500mL IV soln	1000 ml	OD (once daily)	1

Prescribed By :  Designation : Pegawai Perubatan Pakar Department : General Medicine	
---	--

Figure 3.1-19 CDR Prescription

CDR Cycle History

Note

- Click on the **CDR Cycle History** button to display CDR Cycle History screen. Sort the record based on the Cycle Start Date.

CDR CYCLE HISTORY													
												Approve Future Order	Renew Rx
Regimen Code	Regimen Name	Cycle Start Date	Cycle End Date	Cycle Duration	Total Cycle	Cycle No	Height/Weight/BSA	Remarks	Prescription Status	Selection	Ordered By	Approved By(Future Order)	
CDRON00003	Cisplatin	10/06/2015	30/06/2015	21 Days	6	1	158cm/56kg/22.43m		ORDERED	☐			
Drug Name		Dose		Frequency		Route		Chemo Day		Drug Remarks		Status	
Cisplatin 50mg Inj		159 mg		OD (once daily)		Intravenous Infusion		Day : 1				ORDERED	

Figure 3.1-20 CDR Cycle History

- Doctor/Pharmacist will approve a future order by clicking on the **Approve Future Order** button.
- If the future order is without approval, Pharmacist will not allow any transaction.
- Click  button to print CDR Cycle History as shown in Figure 3.1-21.
- For Carboplatin use AUC calculator instead of BSA. Example of AUC calculator click [Carboplatin AUC calculator](#)

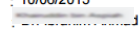
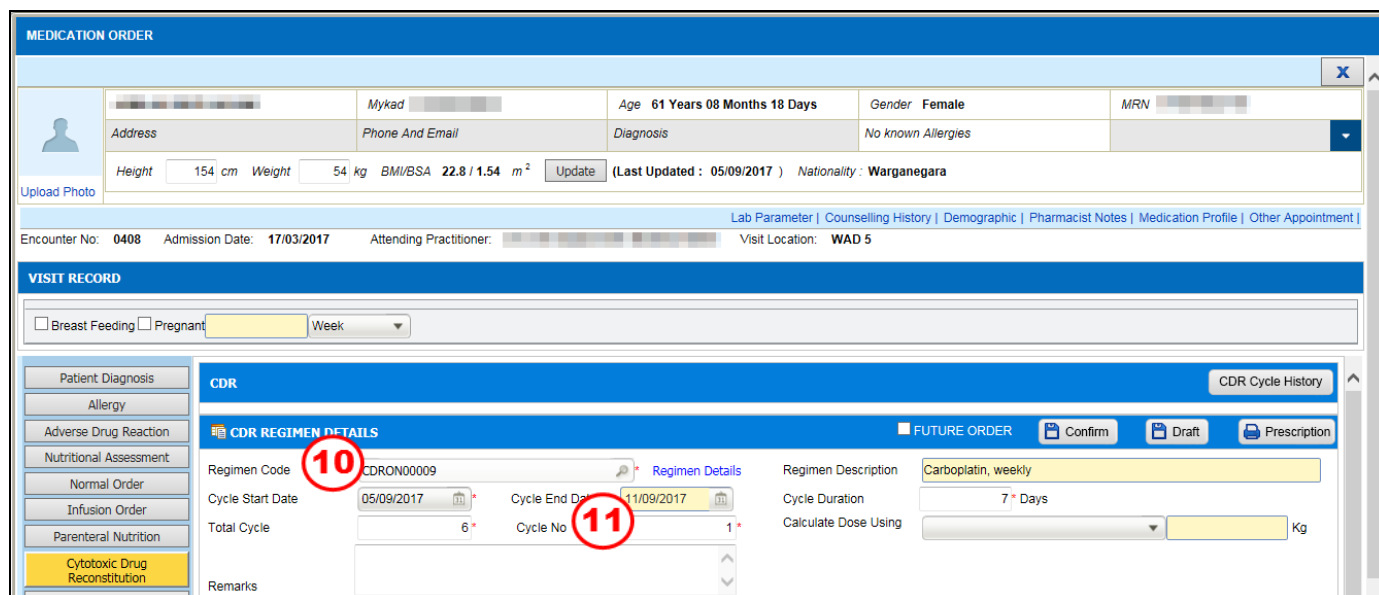
REPORT									
									Export to Excel
Ministry of Health, Malaysia Hospital Pakar Sultanah Fatimah, Muar Cytotoxic Drug Reconstitution : Cycle History									
Patient Name : AILEEN BINTI SAMAD				Patient ID : 770509145802					
Age / Gender : 38 Y 1 M 1 D / Female				MRN : HPSF00084282					
Regimen Code	Regimen Name	Cycle Date	Total Cycle	Cycle No	Remarks	Height/Weight/BSA	Order By	Approved By (Future Order)	
CDRON00003	Cisplatin	10/06/2015 - 30/06/2015 (21 Days)	6	1		158cm/56kg/22.43m2			
Drug Name		Dose	Frequency		Route	Chemo Day	Drug Remarks		Order Status
Cisplatin		159 mg	OD (once daily)		INF	1			ORDERED
Printed Date : 10/06/2015 Printed By :  Source : PhIS									

Figure 3.1-21 CDR Cycle History

Carboplatin AUC Calculator



MEDICATION ORDER

Encounter No: 0408 Admission Date: 17/03/2017 Attending Practitioner: Visit Location: WAD 5

VISIT RECORD

☐ Breast Feeding ☐ Pregnant Week

CDR

CDR REGIMEN DETAILS

Regimen Code: **10** CDRON00009 Regimen Details

Cycle Start Date: 05/09/2017 Cycle End Date: 11/09/2017

Total Cycle: 6 Cycle No: **11**

Regimen Description: Carboplatin, weekly

Cycle Duration: 7 * Days

Calculate Dose Using: Kg

3.1-22 CDR Order

STEP 10

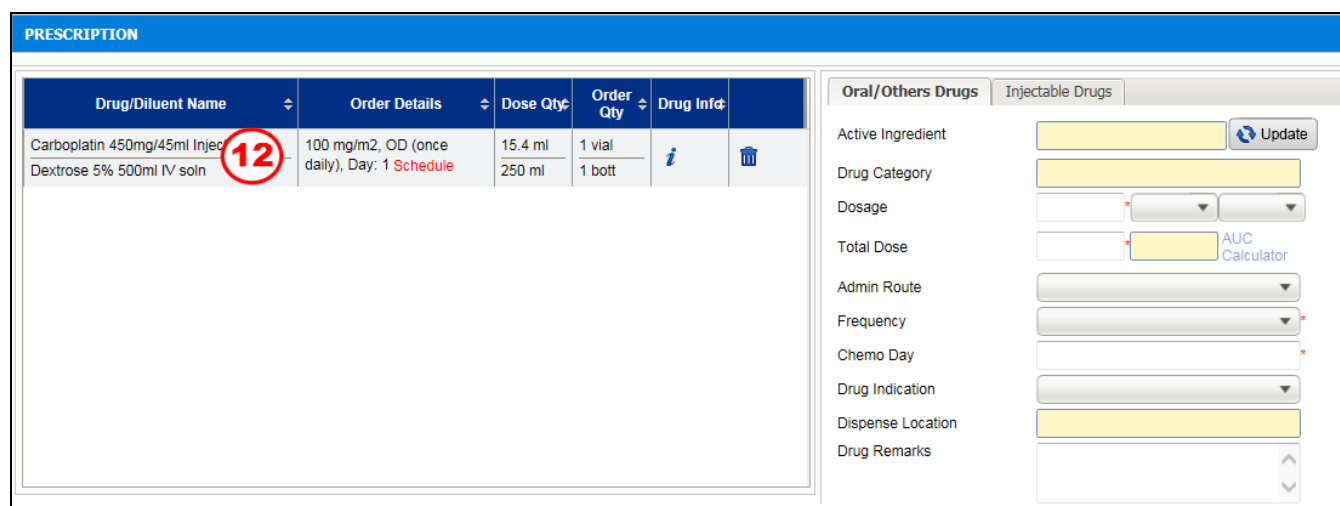
Search and select **Regimen Code**

STEP 11

Enter **Cycle No**

Note

System will display the Regimen details in the prescription section as Figure 3.1-23



PRESCRIPTION

Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info
Carboplatin 450mg/45ml Injec	100 mg/m2, OD (once daily), Day: 1 Schedule	15.4 ml	1 vial	i
Dextrose 5% 500ml IV soln		250 ml	1 bott	

12

Oral/Others Drugs **Injectable Drugs**

Active Ingredient: Update

Drug Category:

Dosage: AUC Calculator

Total Dose:

Admin Route:

Frequency:

Chemo Day:

Drug Indication:

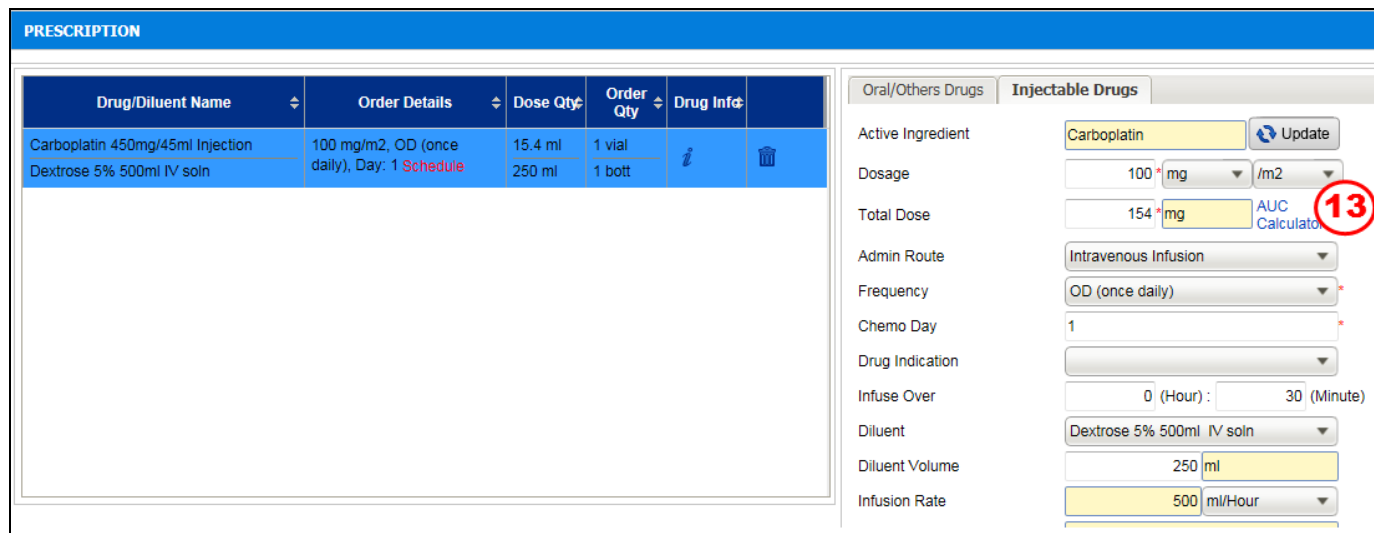
Dispense Location:

Drug Remarks:

Figure 3.1-23 CDR Regimen Prescription

STEP 12

Double click on the row of the prescription to view the drug details as Figure 3.1-24



Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info
Carboplatin 450mg/45ml Injection	100 mg/m2, OD (once daily), Day: 1 Schedule	15.4 ml	1 vial	i
Dextrose 5% 500ml IV soln		250 ml	1 bott	i

PRESCRIPTION

Oral/Others Drugs **Injectable Drugs**

Active Ingredient: Carboplatin [Update](#)

Dosage: 100 mg /m2

Total Dose: 154 mg [AUC Calculator](#) **13**

Admin Route: Intravenous Infusion

Frequency: OD (once daily)

Chemo Day: 1

Drug Indication:

Infuse Over: 0 (Hour) : 30 (Minute)

Diluent: Dextrose 5% 500ml IV soln

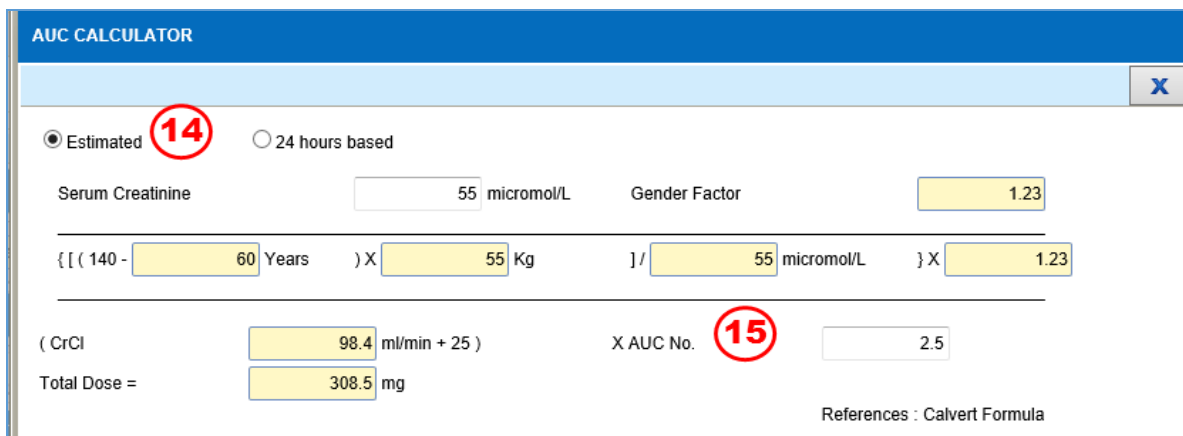
Diluent Volume: 250 ml

Infusion Rate: 500 ml/Hour

Figure 3.1-24 CDR Regimen Drug Details

STEP 13

Click on the **AUC Calculator** hyperlink and AUC Calculator window will be display as Figure 3.1-25



AUC CALCULATOR

☒ **Estimated** **14** ☐ 24 hours based

Serum Creatinine: 55 micromol/L Gender Factor: 1.23

{ ((140 - 60 Years) X 55 Kg) / 55 micromol/L } X 1.23

(CrCl: 98.4 ml/min + 25) X AUC No. **15** 2.5

Total Dose = 308.5 mg

References : Calvert Formula

Figure 3.1-25 Estimated AUC Calculator

STEP 14

Options of 'Estimated' or '24 hour based'. Default to 'Estimated'. When 'Estimated' selected and patient gender = Male, 'Gender Factor' = 1.23. When patient gender = Female, gender factor = 1.04

STEP 15

Key in **AUC No** value manually. User is allowed to enter any numeric value of maximum 1 decimal only.

Note

- System will automatically update the new **Total Dose** based on the input in STEP 14 and STEP 15.
- Once '24 hour based' selected, to display screen as Figure 3.1-26.

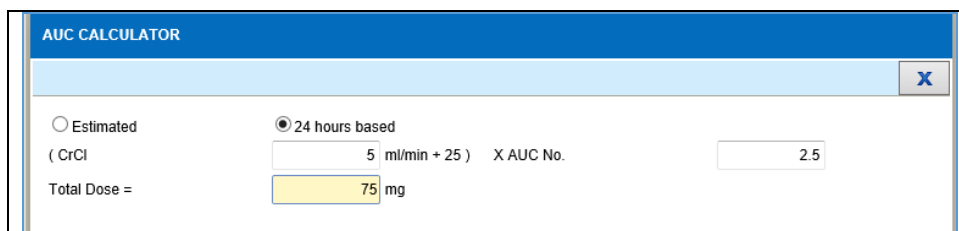


Figure 3.1-26 24 hours based AUC Calculator

- User need to enter CrCl value manually instead of calculated by system.
- The updated **Total Dose** will be update on the Order Screen as Figure 3.1-27.

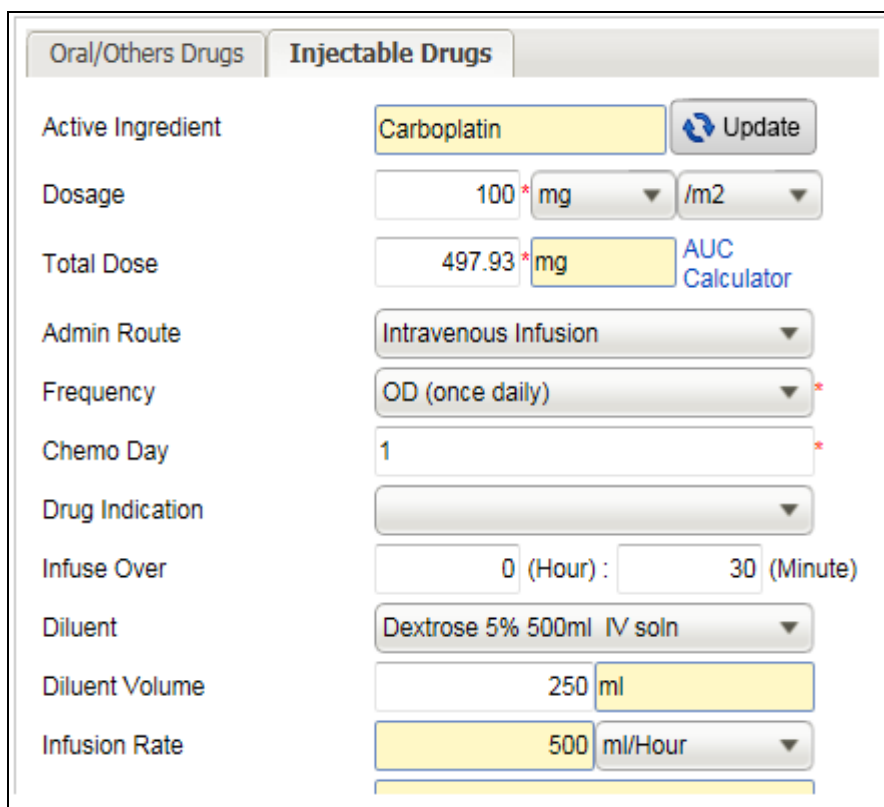


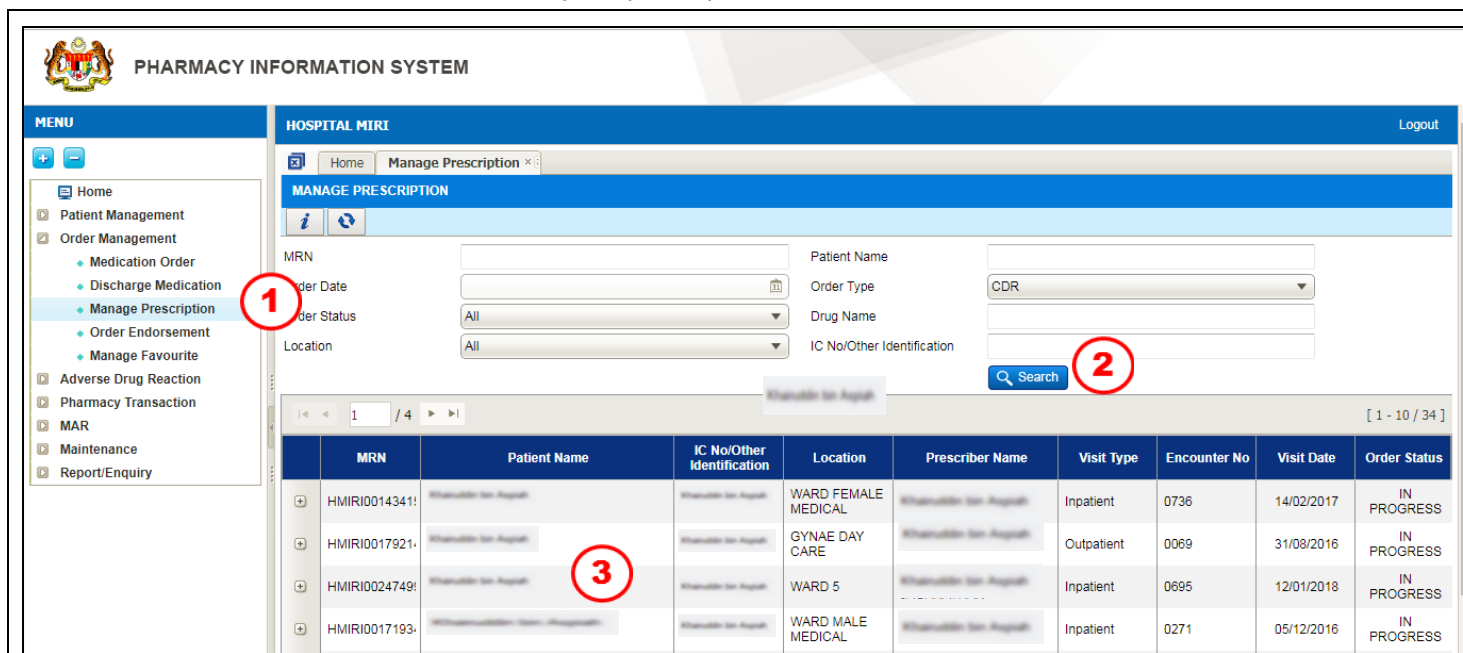
Figure 3.1-27 Updated AUC Calculator

3.2 Manage Prescription

Prescriber is allowed to manage the order made after they confirm the order.

3.2.1 Modify Order

Prescriber is allowed to modify the prescription if the **Order Status** is ORDERED.



MRN	Patient Name	IC No/Other Identification	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
HMIRI0014341	Khairuddin bin Angah	Khairuddin bin Angah	WARD FEMALE MEDICAL	Khairuddin bin Angah	Inpatient	0736	14/02/2017	IN PROGRESS
HMIRI0017921	Khairuddin bin Angah	Khairuddin bin Angah	GYNAE DAY CARE	Khairuddin bin Angah	Outpatient	0069	31/08/2016	IN PROGRESS
HMIRI0024749	Khairuddin bin Angah	Khairuddin bin Angah	WARD 5	Khairuddin bin Angah	Inpatient	0695	12/01/2018	IN PROGRESS
HMIRI0017193	Khairuddin bin Angah	Khairuddin bin Angah	WARD MALE MEDICAL	Khairuddin bin Angah	Inpatient	0271	05/12/2016	IN PROGRESS

Figure 3.2.1-1 Manage Prescription Listing Page

STEP 1

Click on the 'Order Management' menu followed by 'Manage Order' sub menu

Note

Search patient record based :-

No	Field	Description	Remark
a	MRN	Patient Medical Record Number	Search option: - Scan the MRN using barcode scanner. - Type the MRN either in fully or partially. Example: HPSF00001234 or "1234"
b	Order Date	Order date	Allow to search by ordered date
c	Order Status	According to Order in which stage	Able to filter by order status
d	Location	Patient visit location	Able to filter and search patient name by visit location
e	Patient Name	Patient Name	Allow to search by patient name –in fully or partially
f	IC No/Other Identification	Patient IC No/Other Identification	Allow to search by patient IC No/Other Identification
g	Order Type	Search patient by: - Normal - CDR - IV - PN - Radiopharmaceuticals	Allow to search by order type
h	Drug Name	Drug Name	Allow to search by fully or partially entered drug name

Table 3.2.1-1

STEP 2

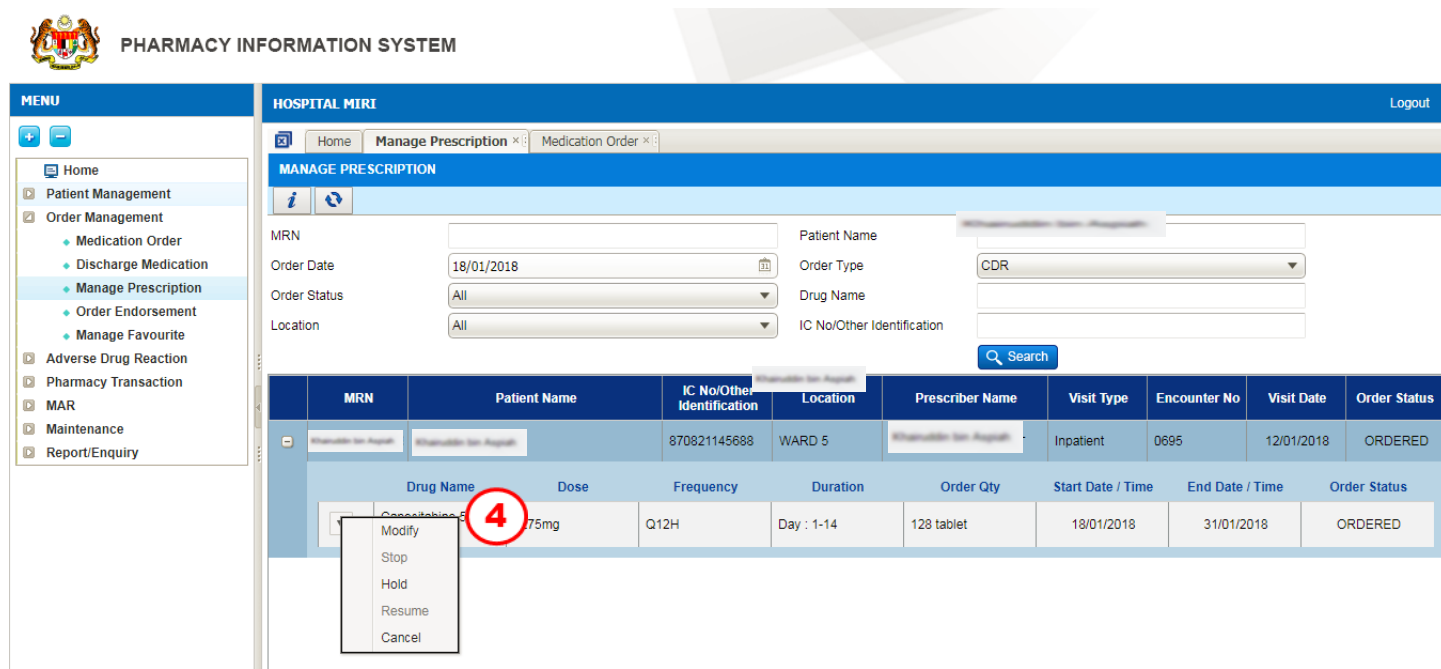
Click on the  button to search for patient

Note

- Search results of patient record list will display:
 - MRN
 - Patient Name
 - Patient IC No/Other Identification
 - Location
 - Prescriber Name
 - Visit Type
 - Encounter No
 - Visit Date
 - Order Status

STEP 3

Click on  button to view selected patient's prescription



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Manage Prescription Medication Order

MANAGE PRESCRIPTION

MRN: [Text Box] Patient Name: [Text Box]
 Order Date: 18/01/2018 Order Type: CDR
 Order Status: All Drug Name: [Text Box]
 Location: All IC No/Other Identification: [Text Box]



MRN	Patient Name	IC No/Other Identification	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
[Text Box]	[Text Box]	870821145688	WARD 5	[Text Box]	Inpatient	0695	12/01/2018	ORDERED

Drug Name	Dose	Frequency	Duration	Order Qty	Start Date / Time	End Date / Time	Order Status
Cisplatin 50mg	75mg	Q12H	Day : 1-14	128 tablet	18/01/2018	31/01/2018	ORDERED

Context Menu: Modify, Stop, Hold, Resume, Cancel

Figure 3.2.1-2 Manage Order – Modify

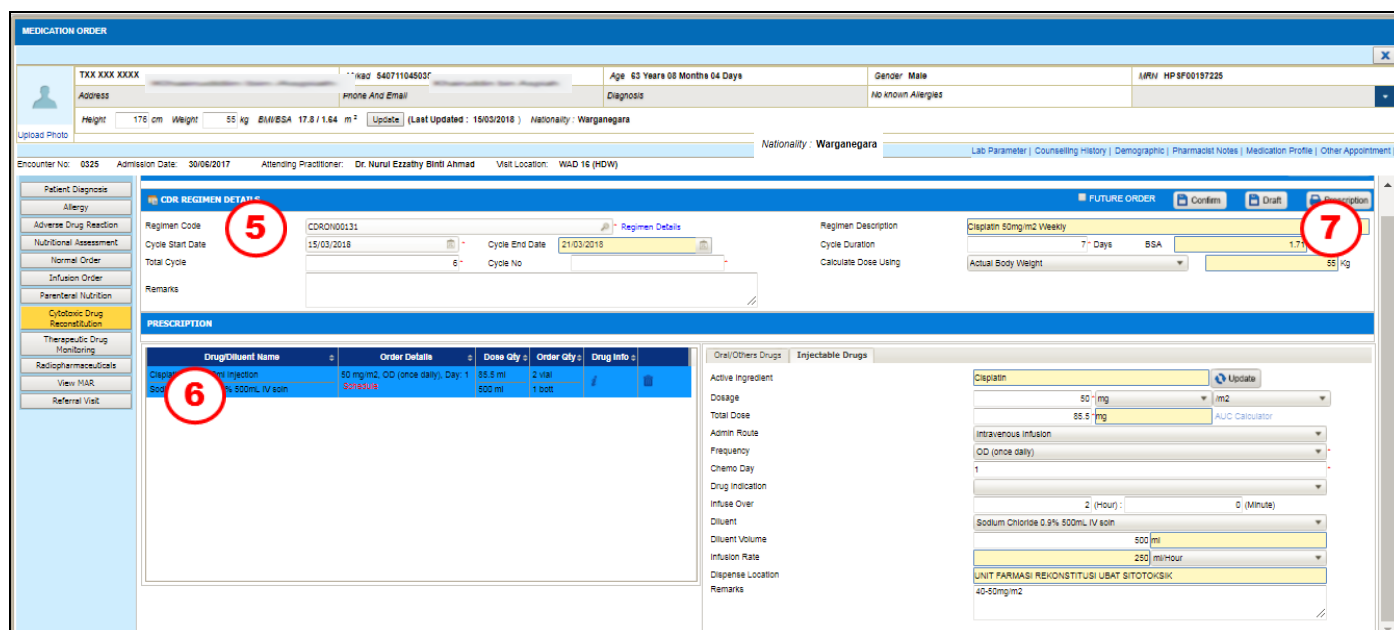
STEP 4

Right click on the  button and select **Modify** function

Note

Modify CDR Order screen will be displayed as shown in Figure 3.2.1-3 and consist of two (2) sections which are:

- CDR Regimen Details section
- Prescription section : Regimen Drug Details



MEDICATION ORDER

TX: XXX XXXX | MRN: 540711045007 | Age: 63 Years 08 Months 04 Days | Gender: Male | MRN: HP00157225

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

Height: 176 cm | Weight: 55 kg | BMI/BSA: 17.8 / 1.64 m² | Update | (Last Updated: 15/03/2018) | Nationality: Warganegara

Encounter No: 0325 | Admission Date: 30/06/2017 | Attending Practitioner: Dr. Nurul Ezzahy Binti Ahmad | Visit Location: WAD 16 (HDW) | Nationality: Warganegara | Lab Parameter | Counseling History | Demographic | Pharmacist Notes | Medication Profile | Other Appointment

CDR REGIMEN DETAILS

Regimen Code: CORON00131 | Regimen Description: Cisplatin 50mg/m2 Weekly

Cycle Start Date: 15/03/2018 | Cycle End Date: 21/03/2018 | Cycle Duration: 7+ Days | BSA: 1.71 | Actual Body Weight: 55 kg

Total Cycle: 6 | Cycle No: | Calculate Dose Using: |

PRESCRIPTION

Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info
Cisplatin Injection	50 mg/m2, OD (once daily), Day 1	55.5 ml	2 vial	
Sodium Chloride 0.9% 500mL IV soln		500 ml	1 bott	

Oral/Other Drugs

Active Ingredient: Cisplatin | Dosage: 50 [mg] | Total Dose: 55.5 [mg] | Admin Route: Intravenous infusion | Frequency: OD (once daily) | Chemo Day: 1 | Drug Indication: | Infuse Over: 2 (Hour) | Diluent: Sodium Chloride 0.9% 500mL IV soln | Diluent Volume: 500 [ml] | Infusion Rate: 250 [ml/Hour] | Dispense Location: UNIT FARMASI REKONSTITUSI UBAT SITOTOKSIK | Remarks: 40-50mg/m2

Figure 3.2.1-3 Modify CDR Order

STEP 5

Information under CDR Regimen Details section which user can modify:

- Cycle Start Date
- Cycle Duration
- Cycle No
- Calculate Dose Using
- Remarks

STEP 6

Information under Prescription section: Regimen Drug Details which user can modify:

- Dosage
- Total Dose
- Frequency
- Chemo Day
- Admin Route
- Drug Indication
- Infuse Over
- Diluent
- Diluent volume

STEP 7

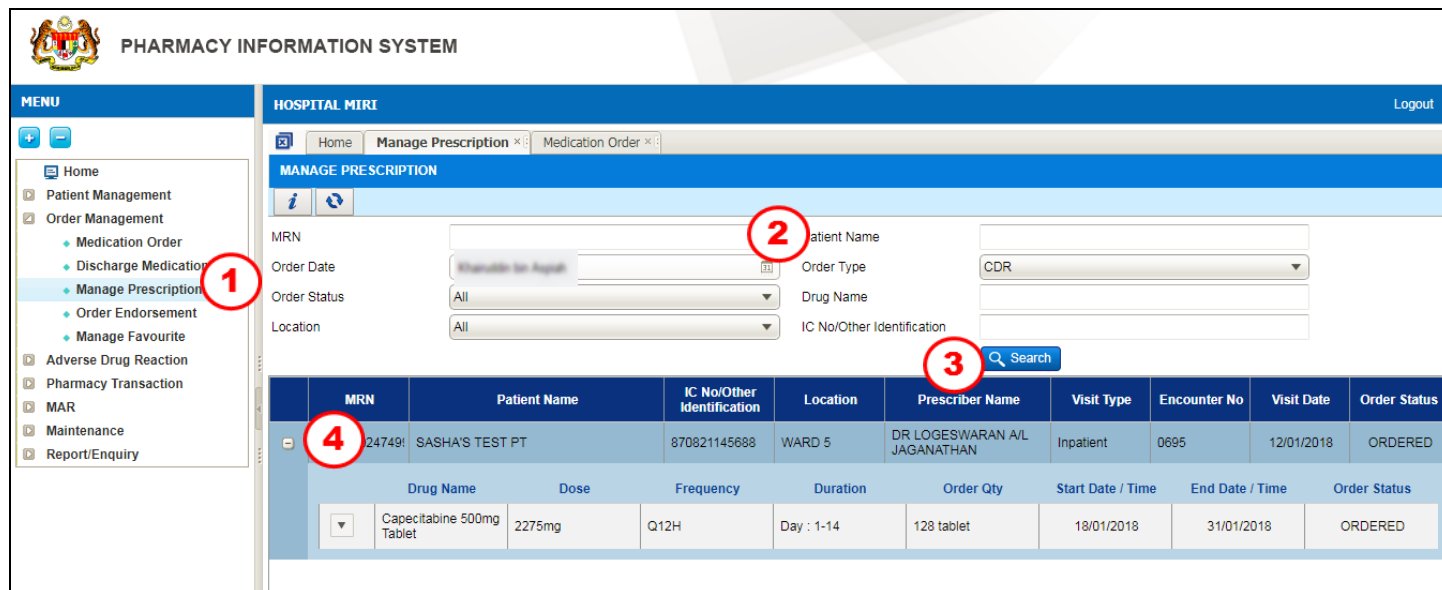
Click on the  button to save the modified record

3.2.2 Hold/Resume Order

Prescriber is allowed to hold medication order from being administered or dispense to the patient and may resume the hold order to continue the medication order.

Note

Repeat **Step 1 to Step 3** section 3.2.1 Modify Order to proceed with Hold/Resume order.



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Manage Prescription Medication Order

MANAGE PRESCRIPTION

MRN: Patient Name:

Order Date: Order Type:

Order Status: Drug Name:

Location: IC No/Other Identification:

MRN	Patient Name	IC No/Other Identification	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
24749	SASHA'S TEST PT	870821145688	WARD 5	DR LOGESWARAN A/L JAGANATHAN	Inpatient	0695	12/01/2018	ORDERED

Drug Name	Dose	Frequency	Duration	Order Qty	Start Date / Time	End Date / Time	Order Status
Capecitabine 500mg Tablet	2275mg	Q12H	Day : 1-14	128 tablet	18/01/2018	31/01/2018	ORDERED

Figure 3.2.2-1 Manage Order – Hold

Hold/Resume order function in manage order module is for prescriber to hold or resume an order from dispensing

STEP 1

Click on 'Order Management' module and click on 'Manage Order' submodule

STEP 2

Search patient's record either by:

- MRN
- Patient Name
- IC no/other identification
- Order Date
- Order Type
- Order Status
- Drug Name
- Location

Note

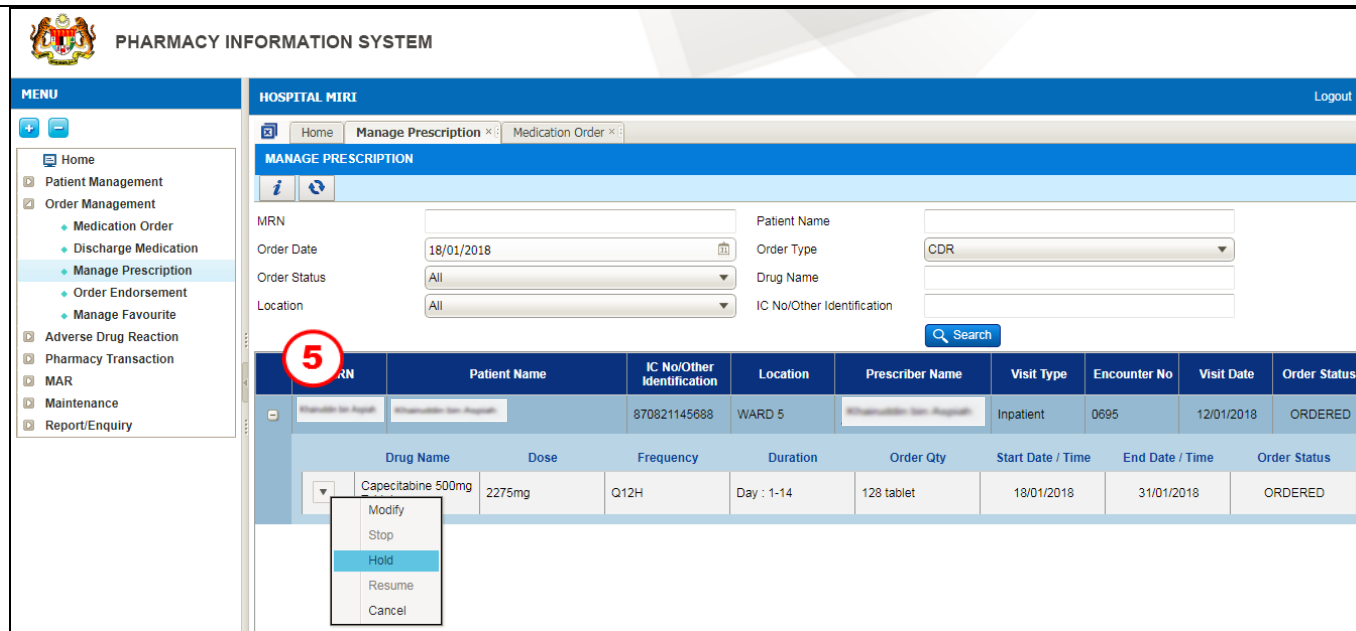
User need to select order type as 'CDR' to search CDR order record.

STEP 3

Click on the to search patient's record

STEP 4

Click on the button to display order detail



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Manage Prescription Medication Order

MANAGE PRESCRIPTION

MRN: Patient Name:
 Order Date: 18/01/2018 Order Type: CDR
 Order Status: All Drug Name:
 Location: All IC No/Other Identification:

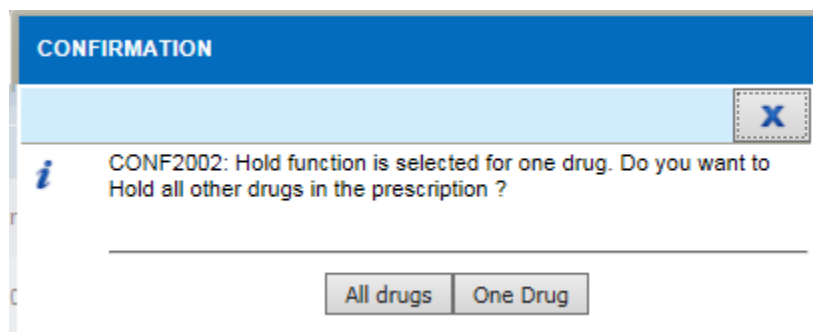
MRN	Patient Name	IC No/Other Identification	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
870821145688	WARD 5	870821145688	WARD 5	Inpatient	0695	12/01/2018	ORDERED	

Drug Name	Dose	Frequency	Duration	Order Qty	Start Date / Time	End Date / Time	Order Status
Capecitabine 500mg	2275mg	Q12H	Day : 1-14	128 tablet	18/01/2018	31/01/2018	ORDERED

Context Menu Options: Modify, Stop, Hold, Resume, Cancel

STEP 5

Right click on the  content menu and select Hold function to hold the order



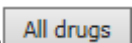
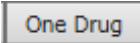
CONFIRMATION

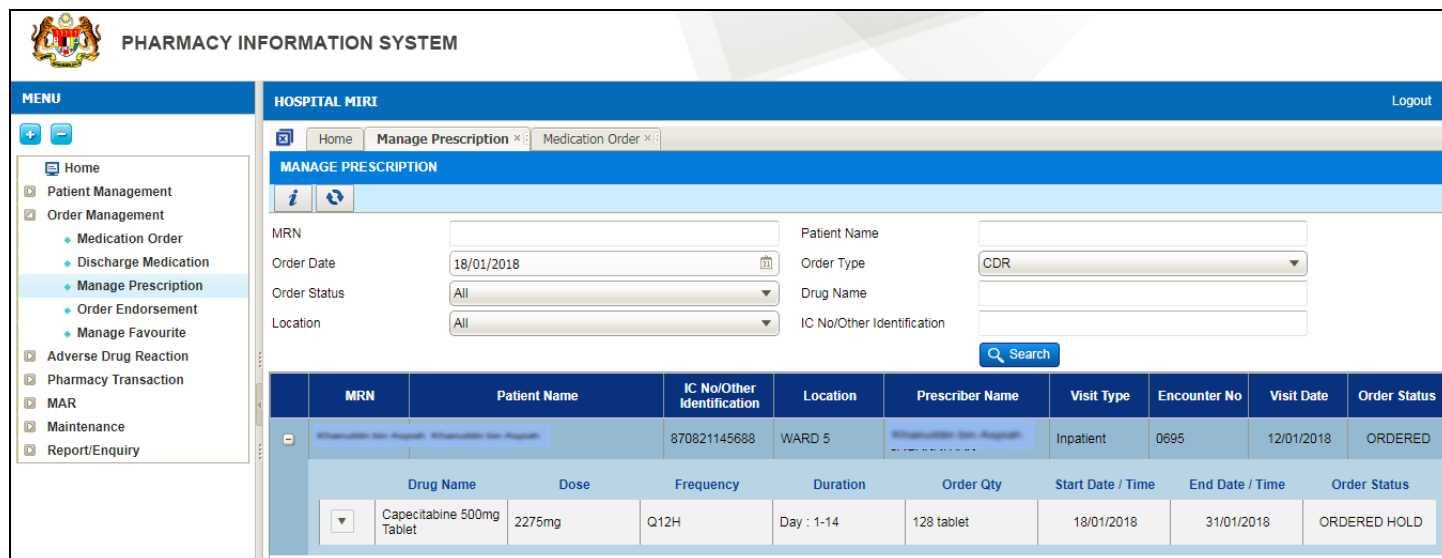


 CONF2002: Hold function is selected for one drug. Do you want to Hold all other drugs in the prescription ?

Figure 3.2.2-2 Alert Message

Note

- Alert Message will be displayed after selecting **Hold** as figure 3.2.2-2
- Click on the  button to hold all other drugs in the prescription.
- Click on  the button to hold only the selected drugs in the prescription.
- Order Status will change to 'Ordered Hold' as shown in Figure 3.2.2-3.



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Manage Prescription Medication Order

MANAGE PRESCRIPTION

MRN: Patient Name:
 Order Date: 18/01/2018 Order Type: CDR
 Order Status: All Drug Name:
 Location: All IC No/Other Identification:

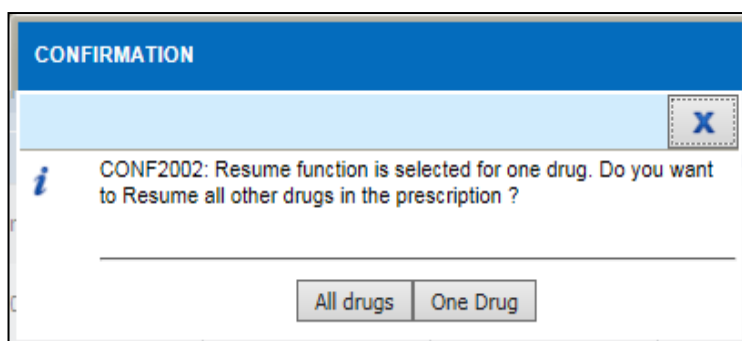
MRN	Patient Name	IC No/Other Identification	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
870821145688	WARD 5				Inpatient	0695	12/01/2018	ORDERED

Drug Name	Dose	Frequency	Duration	Order Qty	Start Date / Time	End Date / Time	Order Status
Capecitabine 500mg Tablet	2275mg	Q12H	Day : 1-14	128 tablet	18/01/2018	31/01/2018	ORDERED HOLD

Figure 3.2.2-3 Manage Order – Hold

Resume CDR Order

- Right click on the button and select **Resume**
- Alert Message will be displayed after selecting **Resume**



CONFIRMATION

i CONF2002: Resume function is selected for one drug. Do you want to Resume all other drugs in the prescription ?

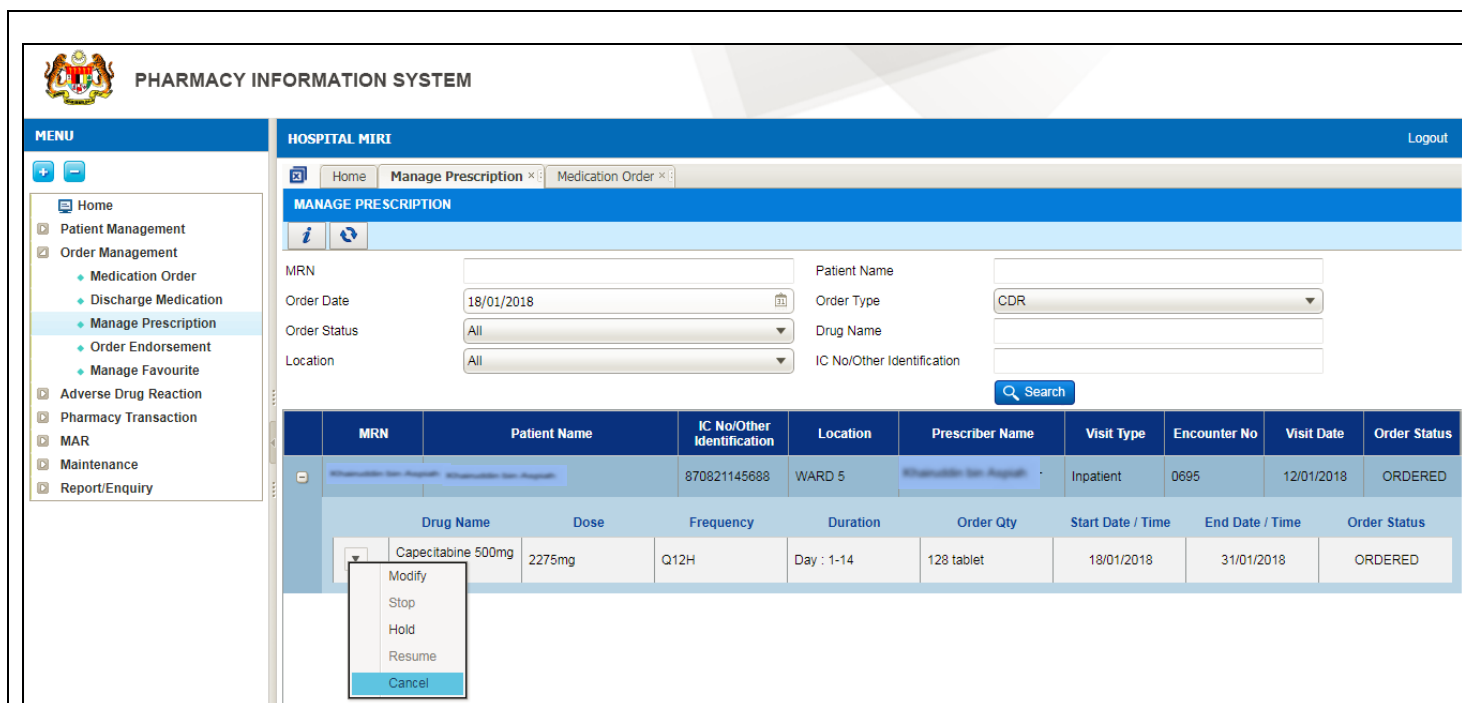
Figure 3.2.2-4 Alert Message

Note

- Click on the button to resume all other drugs in the prescription.
- Click on the button to resume only the selected drugs in the prescription.
- Order Status will change to 'Ordered'.

3.2.3 Cancel/Stop Order

Prescriber is allowed to cancel or stop prescribed medication order from being administered or dispensed.



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Manage Prescription x Medication Order x

MANAGE PRESCRIPTION

MRN: Patient Name:
 Order Date: 18/01/2018 Order Type: CDR
 Order Status: All Drug Name:
 Location: All IC No/Other Identification:

MRN	Patient Name	IC No/Other Identification	Location	Prescriber Name	Visit Type	Encounter No	Visit Date	Order Status
870821145688	WARD 5				Inpatient	0695	12/01/2018	ORDERED

Drug Name	Dose	Frequency	Duration	Order Qty	Start Date / Time	End Date / Time	Order Status
Capecitabine 500mg	2275mg	Q12H	Day : 1-14	128 tablet	18/01/2018	31/01/2018	ORDERED

Context Menu: Modify, Stop, Hold, Resume, **Cancel**

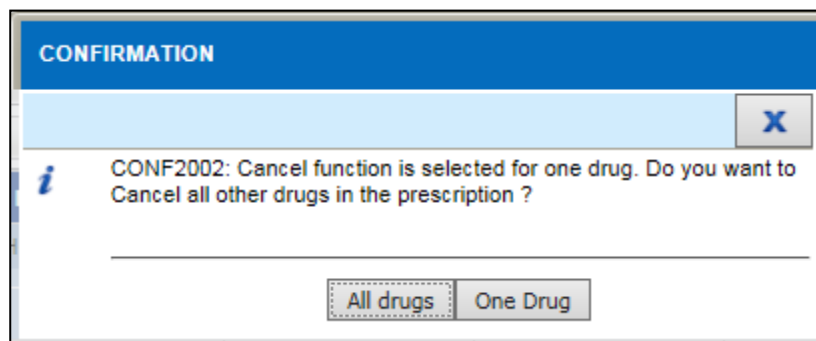
Figure 3.2.3-1 Manage Order – Cancel

Note

Repeat **Step 1** to **Step 3** section 3.2.1 Modify Order to proceed with Cancel/Stop order.

Cancel CDR Order

- Right click on the button and select **Cancel**
- Alert Message will be displayed after selecting **Cancel**



CONFIRMATION

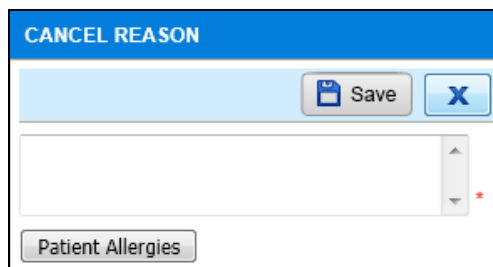
CONF2002: Cancel function is selected for one drug. Do you want to Cancel all other drugs in the prescription?

Figure 3.2.3-2 Alert Message

Note

- Click on the button to cancel all other drugs in the prescription.
- Click on the button to cancel only the selected drugs in the prescription.
- After is clicked, user is required to fill **Cancel Reason** as shown in figure 3.2.3-3.

- Click on the  button to save the CDR Drug cancellation.
- If prescriber found that prescription is required to be cancelled due to patient allergies, prescriber is allowed to click on the  button to record the allergies.



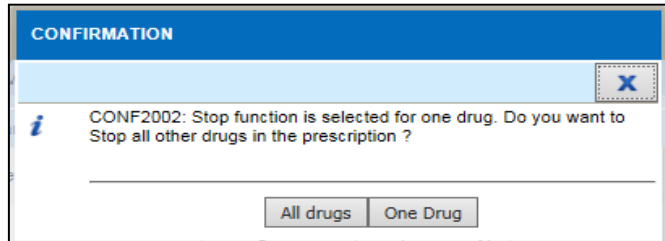
The dialog box has a blue header with the text "CANCEL REASON". Below the header is a light blue bar containing a "Save" button with a floppy disk icon and a close button with an "X" icon. Below this bar is a large white text area with a vertical scrollbar on the right side. At the bottom of the dialog box is a button labeled "Patient Allergies".

Figure 3.2.3-3 Cancel Reason

Stop CDR Order

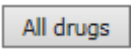
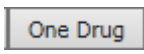
Note

- Only orders with Status "Partially Dispense" can be used to stopped.
 - Right click on the  button and select **Stop**
 - Alert Message will be displayed after selecting **Stop**



The dialog box has a blue header with the text "CONFIRMATION". Below the header is a light blue bar containing a close button with an "X" icon. Below this bar is a message area with an information icon (i) and the text: "CONF2002: Stop function is selected for one drug. Do you want to Stop all other drugs in the prescription ?". Below the message area are two buttons: "All drugs" and "One Drug".

Figure 3.2.3-4 Alert Message

Click  to stop all drug at current perscription or  to stop only selected drug

3.3 Order Endorsement

Order endorsement is to notify the prescriber on prescription changes made by pharmacist.

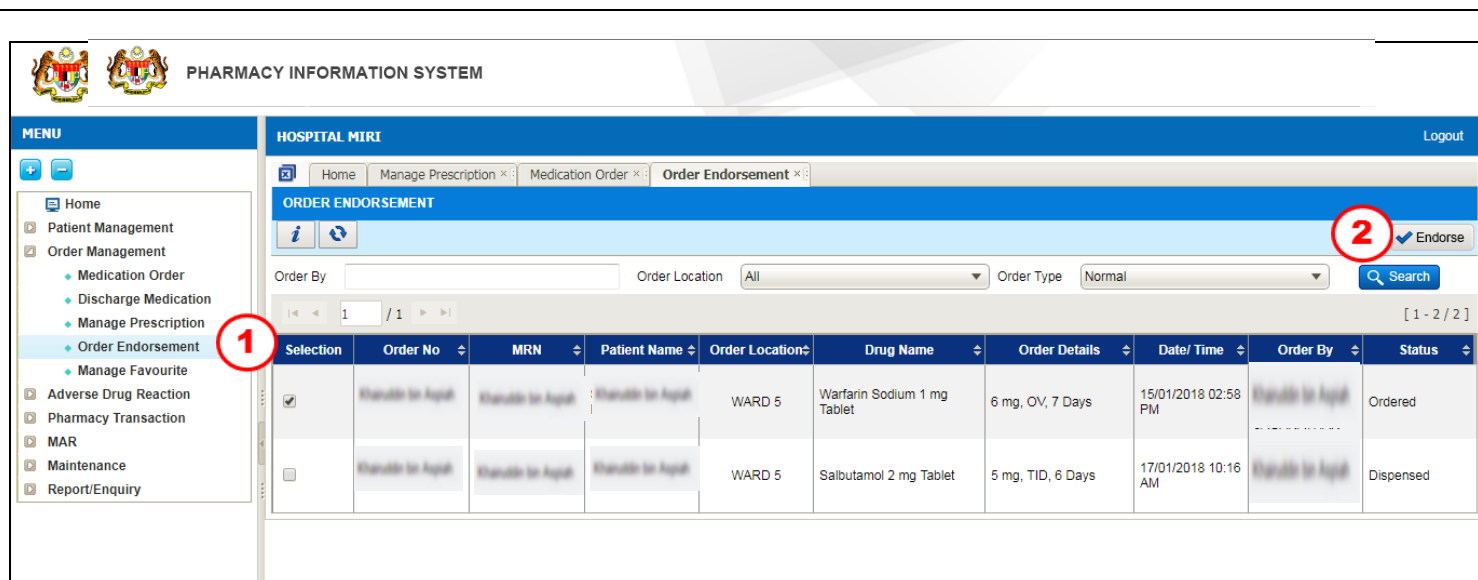


Figure 3.3-1 Order Endorsement

STEP 1

Click on the 'Order Management' menu followed by 'Order Endorsement' sub menu

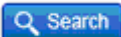
Note

Search patient records by below criteria: -

No	Field	Description	Remark
a	Order By	Prescriber Name	Allow to search by fully or partially entered prescriber name
b	Order Location	Patient visit location	Able to filter and search patient name by visit location
c	Order type	Search By: - Normal - CDR - IV - PN - Radiopharmaceuticals	Allow to search by order type

Table 3.3-1

STEP 2

Click on the  button to search for patient

Note

- Search result of patient record list will display:
 - Order Number
 - MRN
 - Patient Name
 - Order Location
 - Drug Name
 - Order Details
 - Date/Time
 - Order By

- Status

Note

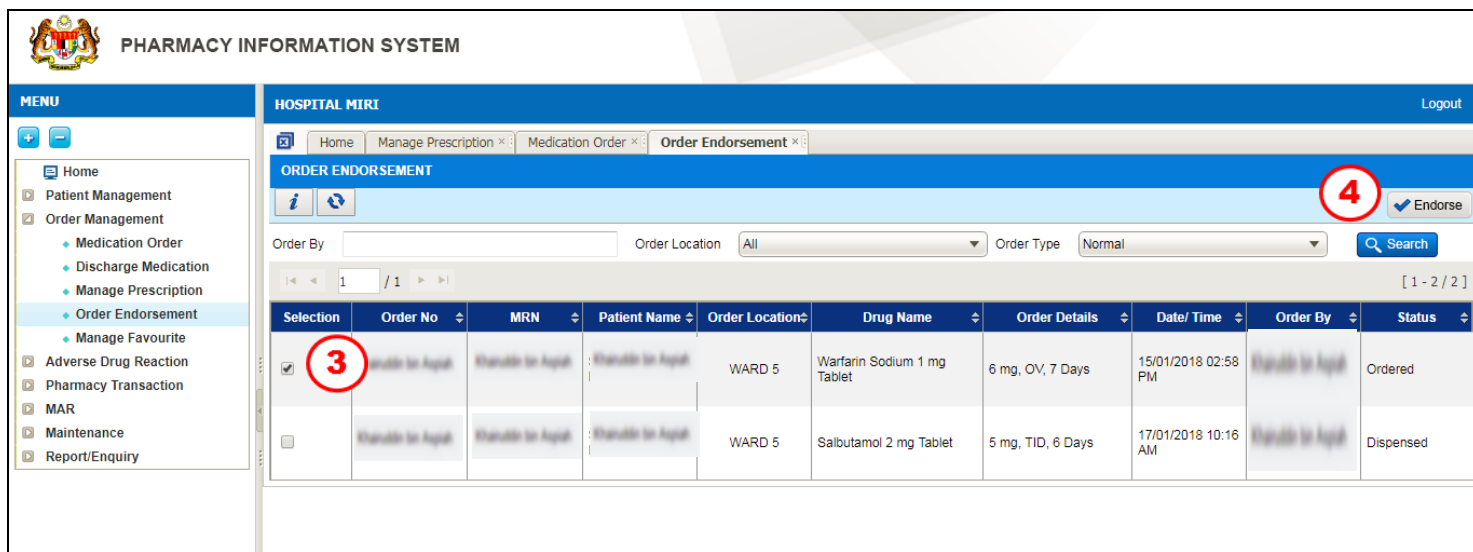
- Click on the **Order No** hyperlink to view Order Details as shown in Figure 3.3-2.
- Click on the **MRN** hyperlink to view patient Medication Profile as shown in Figure 3.3-3.

ORDER DETAILS										
X										
REGIMEN DETAILS										
Ordered Cycle Start Date	Modified Cycle Start Date	Ordered Cycle End Date	Modified Cycle End Date							
04/04/2017	-	24/04/2017	-							
DRUG DETAILS										
Drug Name	Ordered Dose	Ordered Frequency	Ordered Infuse Over	Ordered Chemo Day	Ordered Route	Ordered Start Date	End Date	Status	Remarks	Ordered By
Epirubicin 10mg/5ml Injection	86.4 mg	OD (once daily)	-	Day: 1	Intravenous Slow Bolus	04/04/2017	04/04/2017	ORDERED	Reschedule to April	
Drug Name	Modified Dose	Modified Frequency	Modified Infuse Over	Modified Chemo Day	Modified Route	Modified Start Date	End Date	Status	Remarks	Modified By
Epirubicin 10mg/5ml Injection	-	Single Dose	-	-	-	-	04/04/2017	ORDERED		SITI FAIRUZ BINTI SELBI
DOSE SCHEDULE										
Chemo Day	Ordered Date	Modified Date								
1	04/04/2017	-								

Figure 3.3-2 Order Details

MEDICATION PROFILE											
Administration Dispensing X											
Drug Name					Visit Type	All					
Prescription Date From					Prescription Date To						
Prescription Status	All				Location	All					
Order Type	Normal				Search						
Current Medication											
Encounter No											
Previous Medication											
Encounter No											
0036											
Rx No.	Drug Name	Dose	Route	Frequency	Status	Visit Type	Visit Date	Duration	Prescribed Qty	Start Date	End Date
WAD 80000000751	Amikacin 500mg/2ml Inj	2000 mg	Intravenous Infusion	BD	ORDERED	Inpatient	24/03/2014	2 Days	4000	03/04/2014	05/04/2014
WAD 80000000235	niFEDipine 10 mg Tablet	5 mg	Oral	TDS	PARTIALLY DISPENSED	Inpatient	24/03/2014	2 Days	3	24/03/2014	26/03/2014
WAD 80000000235	Allopurinol 300 mg Tablet	150 mg	Oral	OD	FULLY DISPENSED	Inpatient	24/03/2014	2 Days	1	24/03/2014	26/03/2014
WAD 80000000147	Ofloxacin 100 mg Tablet	100 mg	Oral	STAT	ORDERED	Inpatient	24/03/2014	1 Days	1	27/03/2014	28/03/2014
WAD 80000000121	Paracetamol 500 mg Tablet	500 mg	Oral	PRN	ORDERED	Inpatient	24/03/2014	2 Days	0	27/03/2014	29/03/2014
WAD 80000000113	Insulin glargine (Lantus) 100 IU/ml Pre-filled Pen	1 IU , 2 IU , 1 IU	Subcutaneous	TDS	ORDERED	Inpatient	24/03/2014	2 Days	1	27/03/2014	29/03/2014
WAD 80000000099	Insulin regular (Actrapid) 100 IU/mL Penfill	4 IU	Subcutaneous	OM	ORDERED	Inpatient	24/03/2014	2 Days	1	27/03/2014	29/03/2014
WAD 80000000096	Amlodipine 10 mg Tablet	10 mg	Oral	OD	ORDERED	Inpatient	24/03/2014	2 Days	2	26/03/2014	28/03/2014

Figure 3.3-3 Medication Profile



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Manage Prescription Medication Order **Order Endorsement**

ORDER ENDORSEMENT 4 Endorse

Order By Order Location All Order Type Normal Search

1 / 1 [1 - 2 / 2]

Selection	Order No	MRN	Patient Name	Order Location	Drug Name	Order Details	Date/ Time	Order By	Status
☒ 3	Variable in April	Variable in April	Variable in April	WARD 5	Warfarin Sodium 1 mg Tablet	6 mg, OV, 7 Days	15/01/2018 02:58 PM	Variable in April	Ordered
☐	Variable in April	Variable in April	Variable in April	WARD 5	Salbutamol 2 mg Tablet	5 mg, TID, 6 Days	17/01/2018 10:16 AM	Variable in April	Dispensed

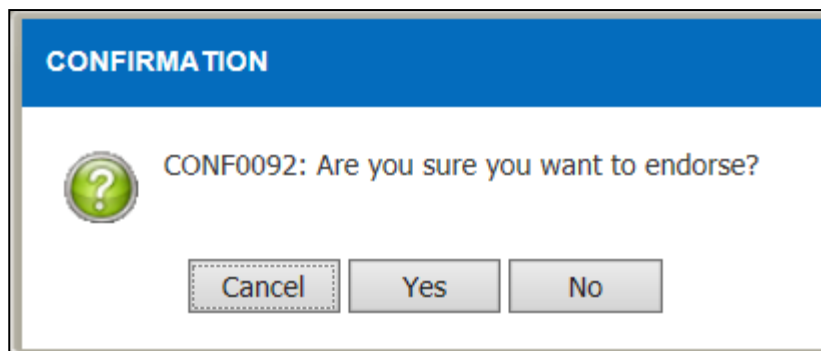
Figure 3.3-4 Order Endorsement

STEP 3

Click on the selected ☒ Patient Name checkbox

STEP 4

Click on the Endorse button to endorse the drug and alert message will be displayed as in Figure 3.3-5



CONFIRMATION

 CONF0092: Are you sure you want to endorse?

Cancel Yes No

Figure 3.3-5 Alert Message

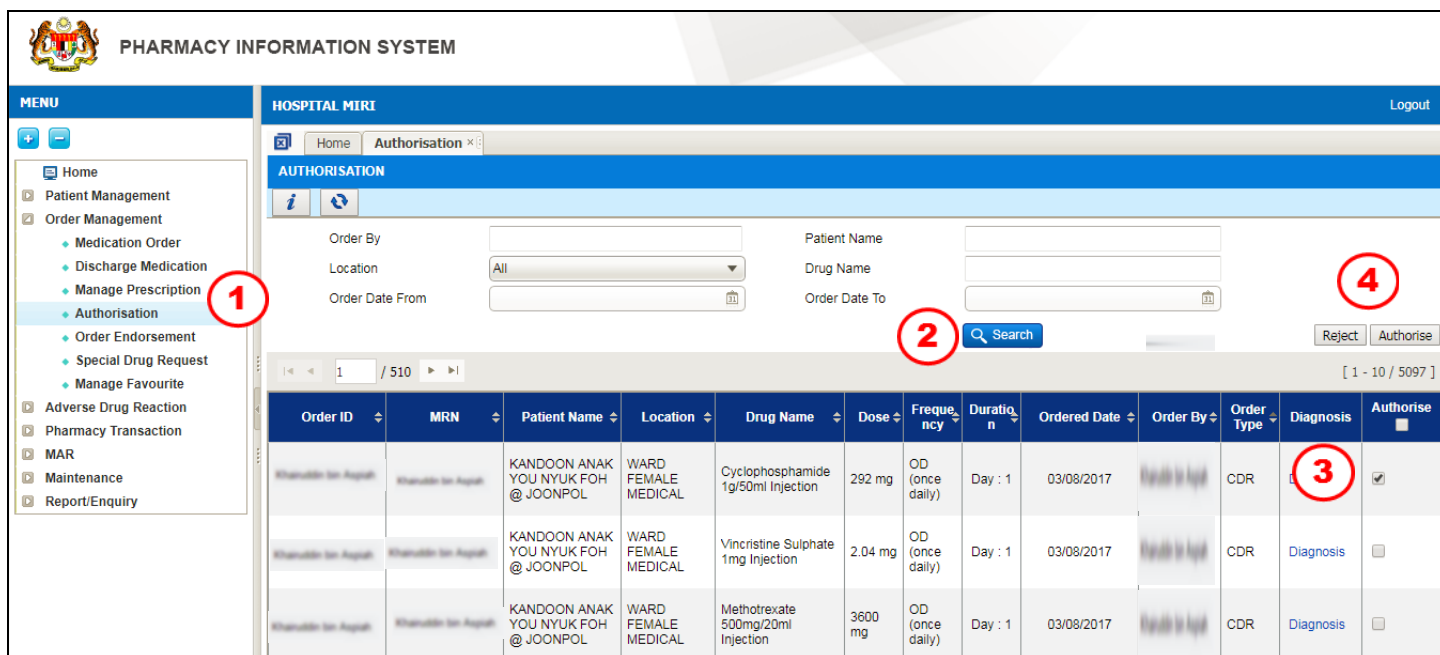
Note

Click on the Yes button to confirm the endorsement.

Click on the No button to cancel the endorsement.

3.4 Authorisation

This function is used by specialist or authorised person to approve list A/ A*/ A/KK drug that requires authorisation.



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Authorisation

AUTHORISATION

Order By: [] Patient Name: []
 Location: All Drug Name: []
 Order Date From: [] Order Date To: []

[Search] [Reject] [Authorise]

[1 - 10 / 5097]

Order ID	MRN	Patient Name	Location	Drug Name	Dose	Frequency	Duration	Ordered Date	Order By	Order Type	Diagnosis	Authorise
[]	[]	KANDON ANAK YOU NYUK FOH @ JOONPOL	WARD FEMALE MEDICAL	Cyclophosphamide 1g/50ml Injection	292 mg	OD (once daily)	Day : 1	03/08/2017	[]	CDR	[]	☒
[]	[]	KANDON ANAK YOU NYUK FOH @ JOONPOL	WARD FEMALE MEDICAL	Vincristine Sulphate 1mg Injection	2.04 mg	OD (once daily)	Day : 1	03/08/2017	[]	CDR	Diagnosis	☐
[]	[]	KANDON ANAK YOU NYUK FOH @ JOONPOL	WARD FEMALE MEDICAL	Methotrexate 500mg/20ml Injection	3600 mg	OD (once daily)	Day : 1	03/08/2017	[]	CDR	Diagnosis	☐

Figure 3.4-1 Authorisation

STEP 1

Click on the 'Order Management' menu and followed by 'Authorisation' sub menu

Note

Search patients record by below criteria:-

No	Field	Description	Remark
a	Order By	Prescriber Name	Allow to search by fully or partially entered prescriber name
b	Patient Name	Patient Name	Allow to search by fully or partially entered prescriber name
c	Location	Patient Visit Location	Able to filter and search patient by visit location and prescriber's location
d	Drug Name	Drug Name	Allow to search by fully or partially entered drug name
e	Order Date From	Order confirmed date	Allow to search by start date of order created
f	Order Date To	Order confirmed date	Allow to search by selected duration of order created

Table 3.4-1

STEP 2

Click on  button to search for patient

Note

- Search results of patient record list will display:
 - Order ID
 - MRN
 - Patient Name
 - Location
 - Drug Name
 - Dose
 - Frequency
 - Duration
 - Ordered Date/Time
 - Order By
 - Order Type
 - Authorise

Note

- Click on the **Order ID** hyperlink to view Order Details as shown in Figure 3.4-2.
- Click on the **MRN** hyperlink to view patient Medication Profile as shown in Figure 3.4-3.

ORDER DETAILS							
		Age 58 Years 2 Months 14 Days Gender Female MRN HPSF0004995					
Address		Phone And Email		Diagnosis		No known Allergies	
Height 180 cm		Weight 69 kg		BMI/BSA 21.3 / 1.85 m ² (Last Updated : 26/03/2014)		Nationality : Warganegara	
Upload Photo							
Rx No WAD 90000000221		Order Type CDR		Order By			
Order Date 31/03/2014 05:32 PM		Order Location WAD 9 (MED - P)					
Category Hematology - NA		Regimen Code CDRHE00227		Regimen Description IMVP 16			
Cycle Duration 28		No. of Cycles 0		Cycle Start Date 31/03/2014		Cycle End Date 28/04/2014	
Remarks							
Active Ingredient	Default Drug Name	Admin Route	Dosage	Total Dose	Frequency	Chemo day	Drug Remark
Mesna	Mesna 400mg/4ml Inj	Intravenous Infusion	200 mg/m ²	370 mg	TDS	Day: 1,2,3,4,5	

Figure 3.4-2 Order Details

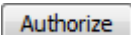
MEDICATION PROFILE											
Administration Dispensing											
Drug Name				Visit Type		All					
Prescription Date From				Prescription Date To							
Prescription Status		All		Location		All					
Order Type		Normal									
Search											
Current Medication											
Encounter No											
Previous Medication											
Encounter No											
0058											
Rx No.	Drug Name	Dose	Route	Frequency	Status	Visit Type	Visit Date	Duration	Prescribed Qty	Start Date	End Date
WAD 90000000639	Paracetamol 500 mg Tablet	500 mg	Oral	TDS	ORDERED	Inpatient	26/03/2014	1 Days	3	01/04/2014	02/04/2014
WAD 90000000507	Warfarin Sodium 5 mg Tablet	5 mg	Oral	OD	ORDERED	Inpatient	26/03/2014	1 Days	1	28/03/2014	29/03/2014
WAD 90000000484	Allopurinol 300 mg Tablet	300 mg	Oral	OD	ORDERED	Inpatient	26/03/2014	1 Days	1	27/03/2014	28/03/2014
WAD 90000000469	nifedipine 10 mg Tablet	10 mg	Oral	TDS	ORDERED	Inpatient	26/03/2014	2 Days	6	27/03/2014	29/03/2014
WAD 90000000354	ENALApril 10 mg Tablet	10 mg	Oral	OD	PREPARED	Inpatient	26/03/2014	1 Days	1	31/03/2014	01/04/2014
WAD 90000000354	Allopurinol 300 mg Tablet	300 mg	Oral	OD	PREPARED	Inpatient	26/03/2014	1 Days	1	26/03/2014	27/03/2014

Figure3.4-3 Medication Profile

STEP 3

Click on the selected ☒ **Patient Name** checkbox

STEP 4

Click on  the button to authorise the drug and an alert message will be displayed as shown in Figure 3.4-4

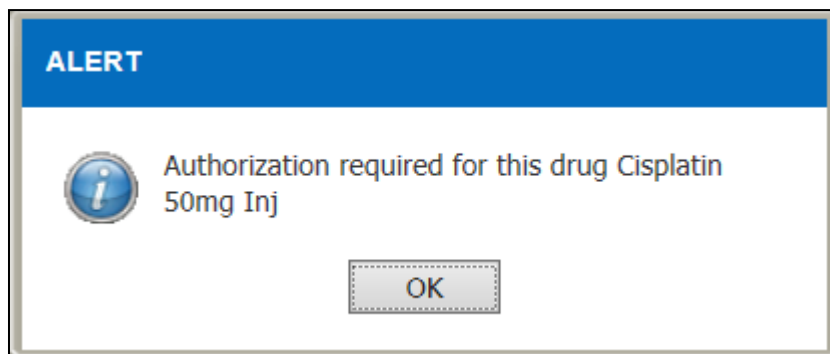
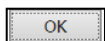
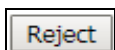


Figure 3.4-4 Alert Message

Note



- Click on the button to confirm the authorisation.



- Click on the button to reject the authorisation.

4.0 Acronyms

Abbreviation	Definition
PhIS	Pharmacy Information System
CPS	Clinical Pharmacy System
MOH	Ministry Of Health
HQ	Headquarters
CDR	Cytotoxic Drug Reconstitution

5.0 Links to Clinical Modules

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