



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

Pharmacy Based

**User Manual
Cytotoxic Drug Reconstitution (CDR)**

Version	: 9th EDITION
Document ID	: PB_U. MANUAL_CDR



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



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Page ii



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)	5
	Overview	5
	User Group	5
	Functional Diagram.....	5
	Functional Description	6
3.1	Cytotoxic Drug Reconstitution Order	7
3.2	New Patient Registration	8
4.0	Cytotoxic Drug Reconstitution (CDR) Order, Verify and Prepare.....	12
5.0	CDR Dispensing	36
6.0	Acronyms.....	44
7.0	Links to Clinical Modules.....	44



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

User will understand the following activities in details:

- Cytotoxic Drug Reconstitution Order
- Cytotoxic Drug Reconstitution Verification
- Cytotoxic Drug Reconstitution Preparation
- Cytotoxic Drug Reconstitution Dispensing

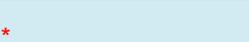
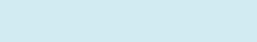
1.3 Organised Sections

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	<input type="checkbox"/>	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		



Cytotoxic Drug Reconstitution (CDR) Module Legend			
	Update Patient's Height and Weight		Display Regimen Details
	Update Sampling Details		Confirm Order
	AUC Calculator		Save Record
	Basic 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

Latest Functions	Page
Label updated	33

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 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

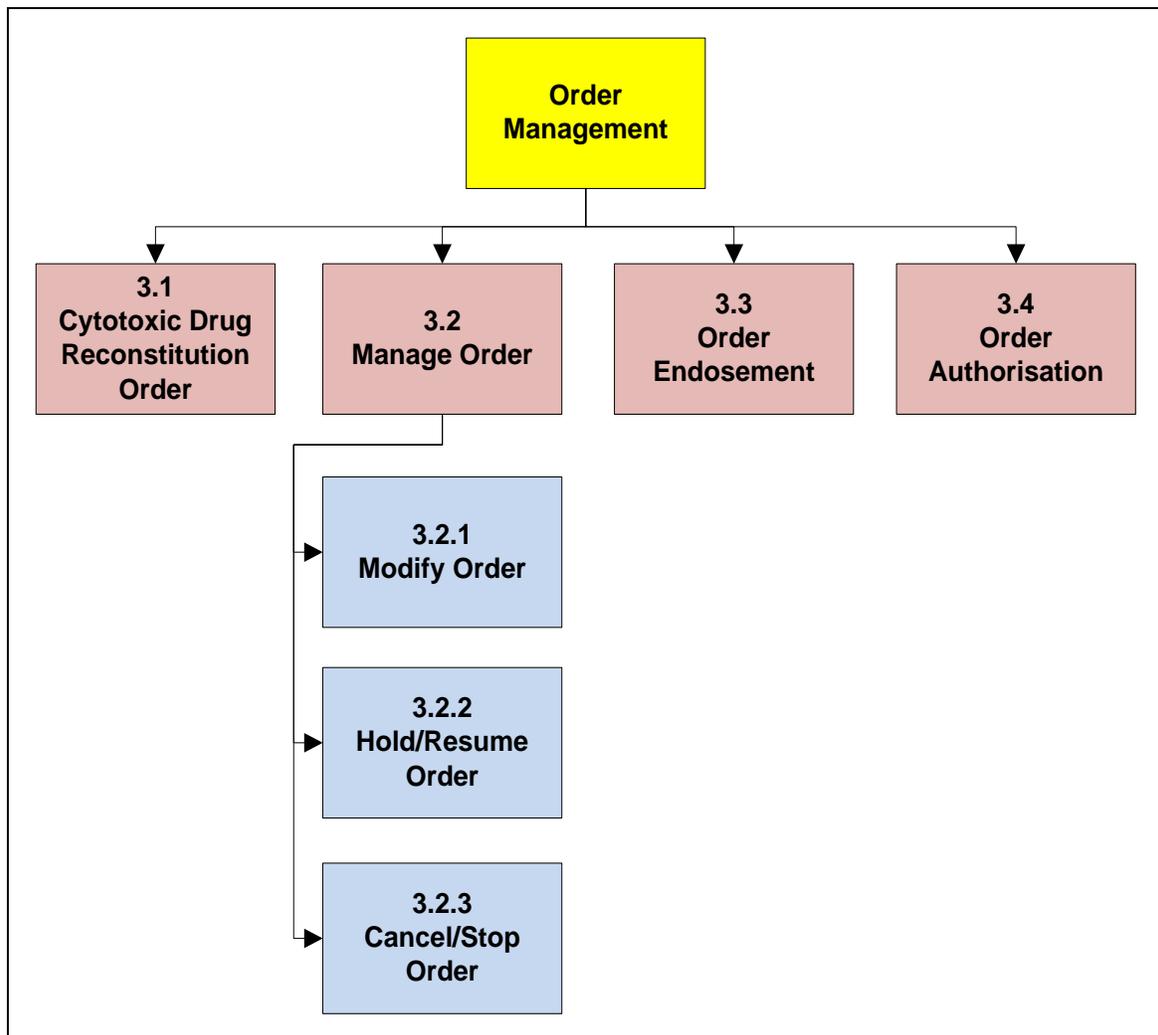


Figure 3.0



Functional Description

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

- **Cytotoxic Drug Reconstitution (CDR) Order**
CDR Order is to prescribe CDR Drug.
- **Manage Order**
To monitor patient's prescription by modifying order, hold/resume order, cancel/stop order.
- **Order Endorsement**
Order endorsement is to notify prescriber on prescription changes made by pharmacist.
Prescriber may endorse the intervention made by pharmacist,
- **Order Authorisation**
To approve list A/ A*/ A/KK drug that requires authorization

3.1 Cytotoxic Drug Reconstitution Order

CDR Order allows Prescriber to place CDR order. Order will be send to Pharmacist for process of verification, preparation and dispensing.

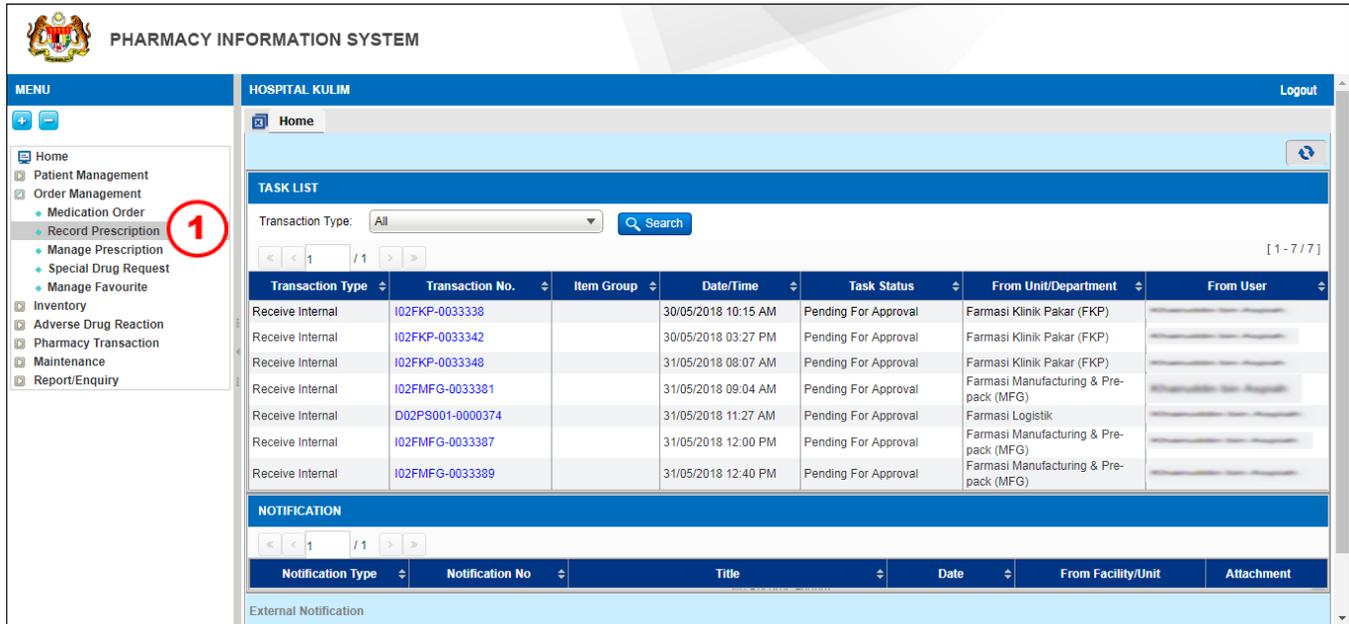


Figure 3.1-1 PhIS Home Page

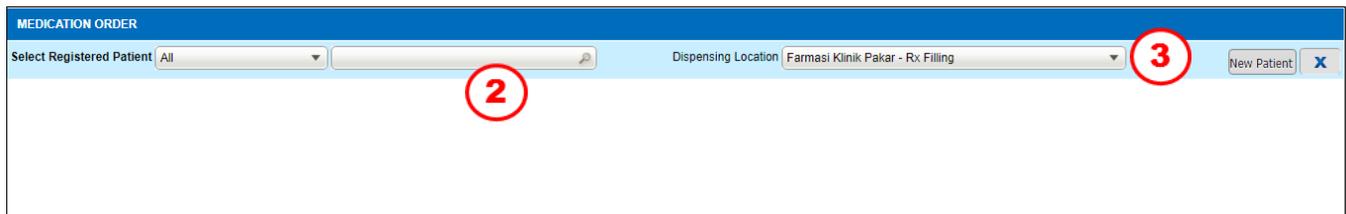


Figure 3.1-2 Medication Order

This page is used to search for a registered patient

STEP 1

Click on 'Order Management' menu followed by 'Record Prescription' and screen will be displayed as per Figure 3.1-1

STEP 2

Enter registered patient name

STEP 3

Click on the  button to search for a registered patient

Note

If the patient is not registered, click on the  button and the Patient Registration screen will be displayed

3.2 New Patient Registration

To register a new patient, please perform the steps below.

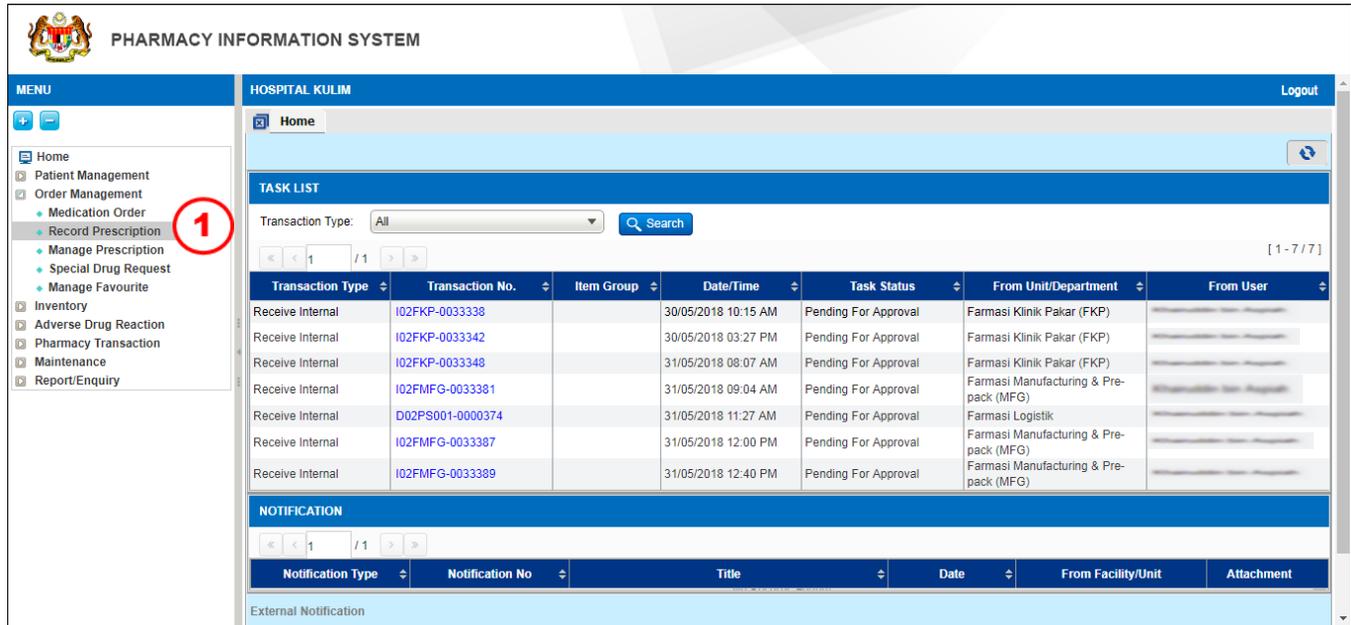


Figure 3.2-1 PhIS Home Page

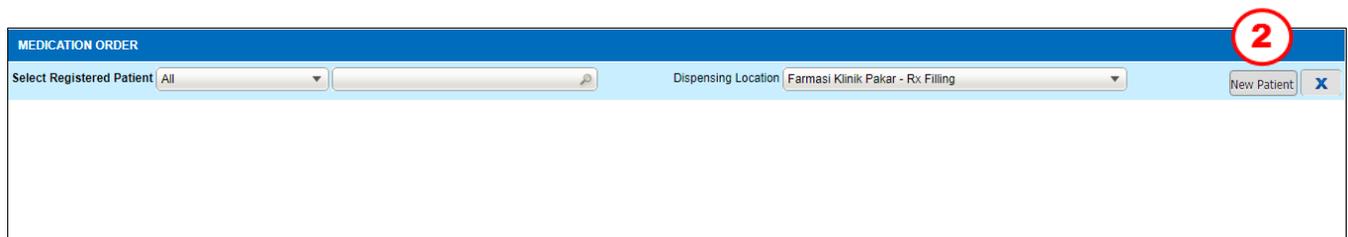


Figure 3.2-2 Transcribe Order Create New Patient

This page is used to register new patient

STEP 1

Click on 'Order Management' menu followed by 'Transcribe Order' and screen will be displayed as per Figure 3.2-2

STEP 2

Click on the  button to register for new patient

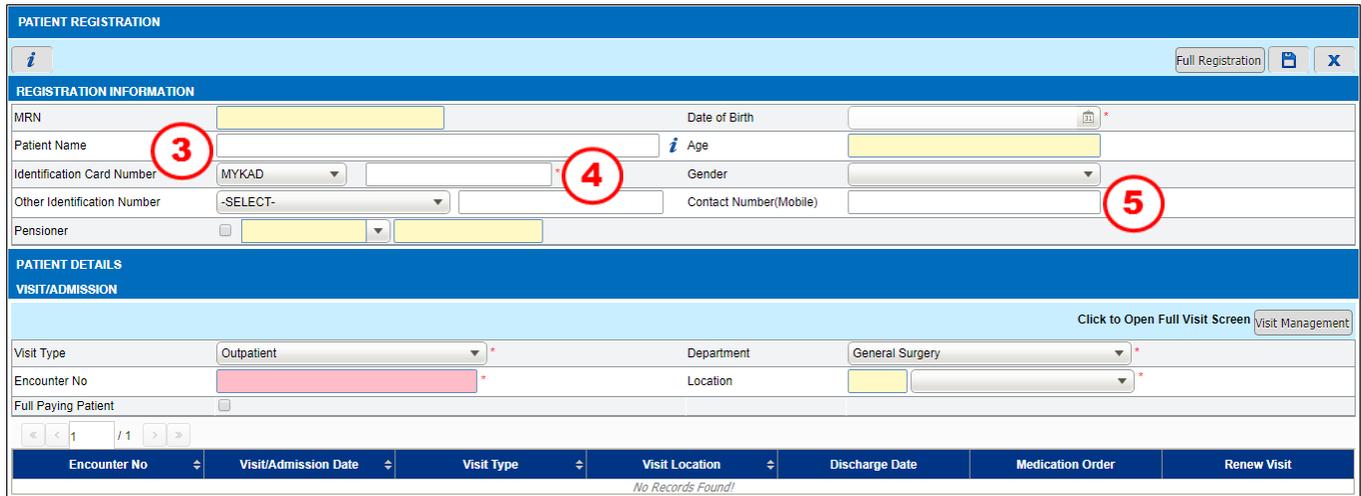


Figure 3.2-3 Registration Information

STEP 3

Enter **Patient Name**

STEP 4

Select from **Identification Card Number** drop down box:

- MYKAD
- MYKID

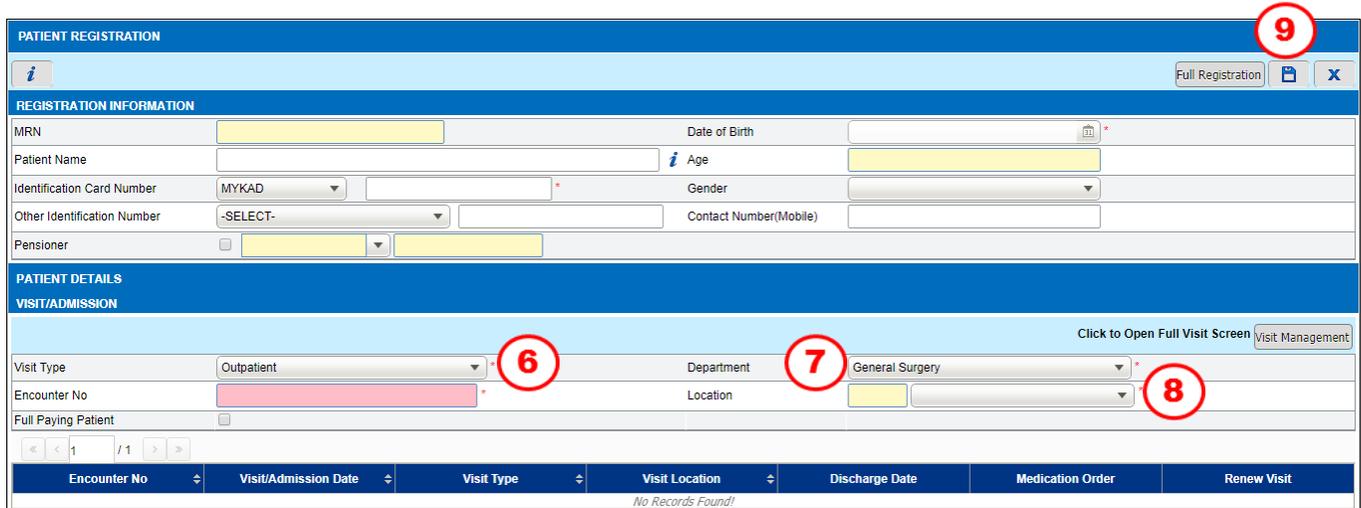
and enter the relevant number

Note

- After enter the **Identification Card Number** the below details will be displayed:
 - Date of Birth (dd/mm/yy)
 - Age (42Y 05M 21D)
 - Gender (Male/Female)
- If MYKAD/MYKID is unavailable, user is required to select the **Other Identification Number** dropdown box:
 - Birthday Certificate
 - Driving License
 - Father IC
 - MYKAS
 - MYPR
 - Military Card Number
 - Mother IC
 - Old IC
 - Passport
 - Pension Card
 - Police Card Number
 - UNHCR
 - Unknown Patient
 - Work Permitand enter the relevant number.

STEP 5

Enter **Contact Number (Mobile)**



The screenshot shows the 'PATIENT REGISTRATION' form. The 'REGISTRATION INFORMATION' section includes fields for MRN, Date of Birth, Patient Name, Age, Identification Card Number (MYKAD), Gender, Other Identification Number, and Contact Number (Mobile). The 'PATIENT DETAILS' section includes the 'VISIT/ADMISSION' section with fields for Visit Type (Outpatient), Department (General Surgery), Encounter No, and Location. A 'Full Registration' button is in the top right. A 'Click to Open Full Visit Screen' link is also present. A table at the bottom shows columns for Encounter No, Visit/Admission Date, Visit Type, Visit Location, Discharge Date, Medication Order, and Renew Visit. A 'No Records Found!' message is at the bottom.

Figure 3.2-4 Visit/Admission

STEP 6

Select the **Visit Type** from dropdown box:

- Daycare
- Emergency
- Inpatient
- Outpatient
- Outsource
- SPUB
- Walk-in

STEP 7

Select the **Department** from dropdown box:

Note

Department will tie to the selected visit type.

STEP 8

Select **Location** from dropdown box

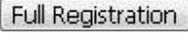
Note

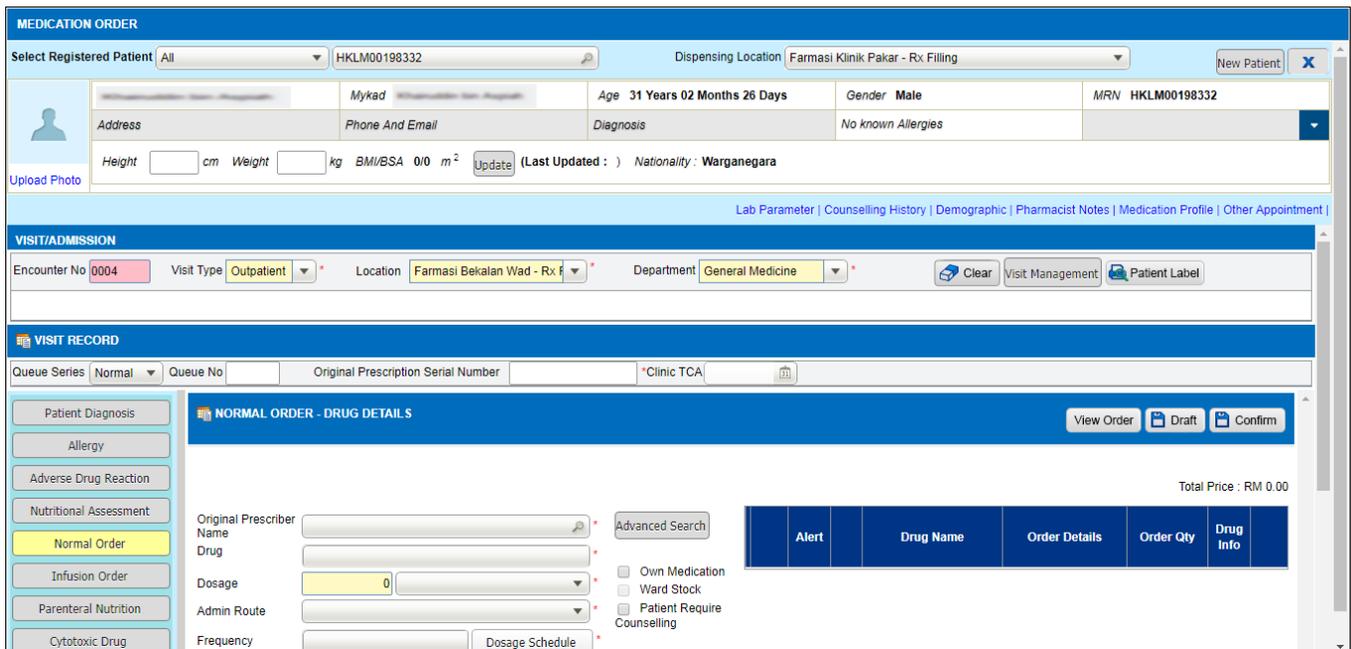
Location will tie to the selected Department.

STEP 9

Click on the  button to save the record and medication order screen will display as per Figure 3.2.5

Note

- After click the save button, system will automatically generate the **MRN** (Medical Record Number) and ,  and  buttons will be enabled.
- Click on the  to assess 'Visit Management' Screen. (Refer to Appendix 2).
- Another option to register a new patient is to click on the  button located under Patient Quick Registration that will display the same screen as Figure 3.2-3.



The screenshot displays the 'MEDICATION ORDER' interface. At the top, it shows 'Select Registered Patient' with a dropdown menu set to 'All' and a search field containing 'HKLM00198332'. The 'Dispensing Location' is 'Farmasi Klinik Pakar - Rx Filling'. A 'New Patient' button is visible. Below this, a patient profile section includes fields for 'Mykad', 'Age' (31 Years 02 Months 26 Days), 'Gender' (Male), 'MRN' (HKLM00198332), 'Address', 'Phone And Email', 'Diagnosis', and 'No known Allergies'. There are also fields for 'Height', 'Weight', 'BMI/BSA', and 'Nationality' (Warganegara). A 'VISIT/ADMISSION' section shows 'Encounter No' 0004, 'Visit Type' Outpatient, 'Location' Farmasi Bekalan Wad - Rx, and 'Department' General Medicine. A 'VISIT RECORD' section shows 'Queue Series' Normal and 'Queue No'. The main area is titled 'NORMAL ORDER - DRUG DETAILS' and includes a table with columns: Alert, Drug Name, Order Details, Order Qty, and Drug Info. The table is currently empty. There are buttons for 'View Order', 'Draft', and 'Confirm'. A 'Total Price : RM 0.00' is displayed. On the left, there is a sidebar with buttons for 'Patient Diagnosis', 'Allergy', 'Adverse Drug Reaction', 'Nutritional Assessment', 'Normal Order' (highlighted), 'Infusion Order', 'Parenteral Nutrition', and 'Cytotoxic Drug'. The main form has fields for 'Original Prescriber Name', 'Drug', 'Dosage' (0), 'Admin Route', 'Frequency', and 'Dosage Schedule'. There is an 'Advanced Search' button and checkboxes for 'Own Medication', 'Ward Stock', and 'Patient Require Counselling'.

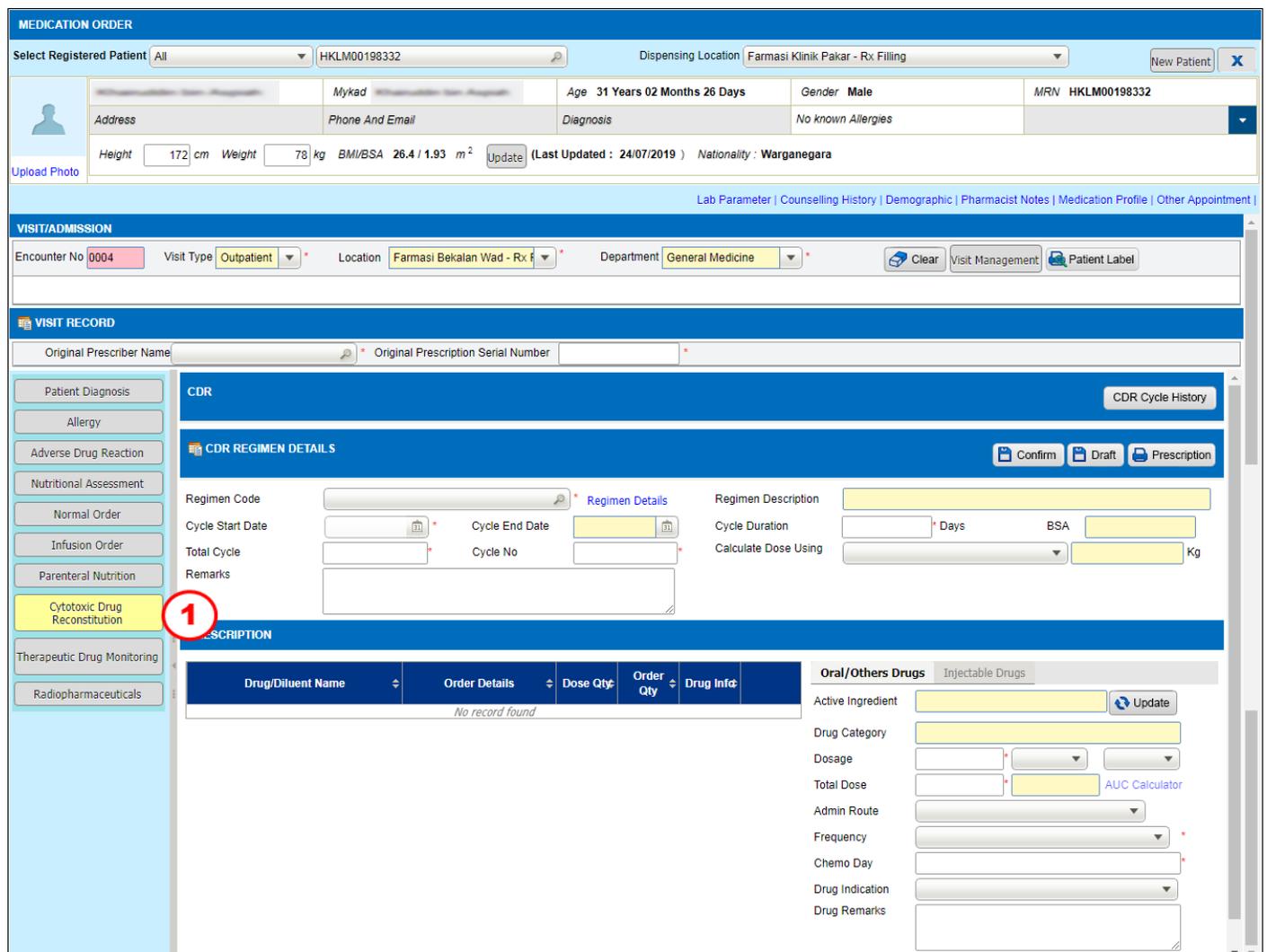
Figure 3.2-5 Medication Order

4.0 Cytotoxic Drug Reconstitution (CDR) Order, Verify and Prepare

Perform these steps below to create new order, verify and prepare for CDR.

Cytotoxic Drug is a drug that has toxic on cells, commonly used in chemotherapy to inhibit the proliferation of cancerous cells. CDR Drug ordered as regimen through CDR Order module by prescriber. Regimen is a group of CDR drugs. Each drug within a regimen is indicated to be taken on which day/time within the cycle duration. CDR regimen will be set by HQ in Regimen Master setup CDR Regimen Category master setup also will be done by HQ.

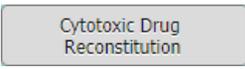
CDR Order:



The screenshot shows the 'MEDICATION ORDER' form. At the top, there are fields for 'Select Registered Patient' (All, HKLM00198332) and 'Dispensing Location' (Farmasi Klinik Pakar - Rx Filling). Below this is a patient information section with fields for Mykad, Age (31 Years 02 Months 26 Days), Gender (Male), MRN (HKLM00198332), Address, Phone And Email, Diagnosis, and No known Allergies. There are also fields for Height (172 cm), Weight (78 kg), BMI/BSA (26.4 / 1.93 m²), and Nationality (Warganegara). A 'VITIS/ADMISSION' section includes Encounter No (0004), Visit Type (Outpatient), Location (Farmasi Bekalan Wad - Rx f), and Department (General Medicine). The 'VITIS RECORD' section has fields for Original Prescriber Name and Original Prescription Serial Number. The 'CDR REGIMEN DETAILS' section includes Regimen Code, Regimen Description, Cycle Start Date, Cycle End Date, Cycle Duration, Total Cycle, Cycle No, and Calculate Dose Using. The 'PRESCRIPTION' section has a table with columns for Drug/Diluent Name, Order Details, Dose Qty, Order Qty, and Drug Info. A red circle with the number '1' highlights the 'Cytotoxic Drug Reconstitution' button in the left-hand navigation menu.

Figure 4.0-1 CDR Order

STEP 1

Click on the  to display CDR Order screen

Note

- CDR Order screen consists of:
 - Patient's Banner
 - Visit / Admission
 - Visit Record
 - CDR Regimen Details
 - Prescriptions

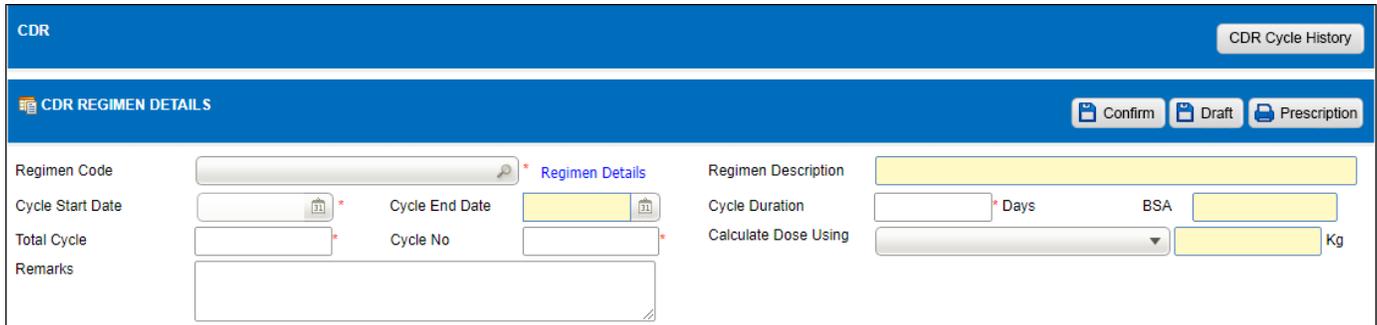


Figure 4.0-2 CDR Regimen Details

Patient's Banner

- Patient's Banner will be displayed patient's profile. User can update patient's height and weight.
- Click on the button and system will be automatically calculated the BMI/BSA in m².

Visit Admission

- Visit Admission will be displayed Encounter No., Visit Type, Location and Department; Breast Feeding and Pregnant check box.

Visit Record

- Visit Record will be displayed Original Prescriber Name and Original Order Transaction Number fields.
- Enter details for both fields.

CDR Regimen Details

- CDR Regimen Details consists of:
 - Regimen Code
 - Regimen Description
 - Regimen Details Hyperlink
 - No. Of Cycle
 - Cycle Duration
 - Cycle Start Date
 - Cycle End Date
 - Calculate Dose Using
 - Remarks

PRESCRIPTION

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

Oral/Others Drugs | Injectable Drugs

Active Ingredient: Update

Drug Category:

Dosage: *

Total Dose: * AUC Calculator

Admin Route:

Frequency: *

Chemo Day: *

Drug Indication:

Drug Remarks:

Figure 4.0-3 Prescription – Oral/Others Drugs

PRESCRIPTION

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

Oral/Others Drugs | **Injectable Drugs**

Active Ingredient: Update

Dosage: *

Total Dose: * AUC Calculator

Admin Route:

Frequency: *

Chemo Day: *

Drug Indication:

Infuse Over: (Hour) : (Minute)

Diluent:

Diluent Volume:

Infusion Rate:

Remarks:

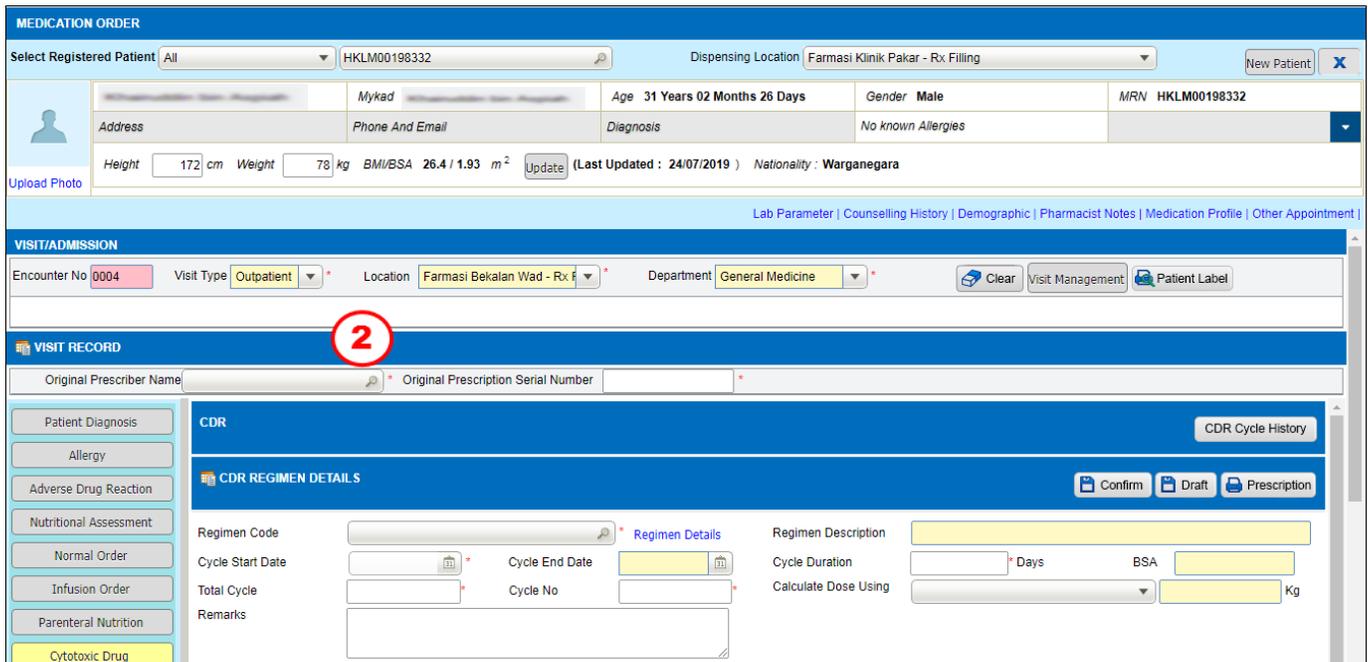
Figure 4.0-4 Prescription – Injectable Drugs

Prescriptions

- Prescriptions consists of:
 - Oral/Others Drugs
 - Injectable Drugs
 - Drug/Diluents' Name
 - Order Details
 - Dose Qty (Quantity)
 - Order Qty (Quantity)
 - Drug Info (Information)

- **Oral/Others Drugs:**
 - Active Ingredient
 - Dosage
 - Total Dose

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



The screenshot displays the 'MEDICATION ORDER' interface. At the top, it shows 'Select Registered Patient' with a dropdown menu set to 'All' and a search field containing 'HKLM00198332'. The 'Dispensing Location' is set to 'Farmasi Klinik Pakar - Rx Filling'. A 'New Patient' button is visible on the right.

Below this, a patient profile section includes fields for 'Mykad', 'Age' (31 Years 02 Months 26 Days), 'Gender' (Male), and 'MRN' (HKLM00198332). There are also fields for 'Address', 'Phone And Email', 'Diagnosis', and 'No known Allergies'. Physical attributes like 'Height' (172 cm), 'Weight' (78 kg), and 'BMI/BSA' (26.4 / 1.93 m²) are listed, along with an 'Update' button and a note '(Last Updated : 24/07/2019)'. The 'Nationality' is 'Warganegara'. A 'Lab Parameter' link is present at the bottom right of this section.

The 'VISIT/ADMISSION' section shows 'Encounter No' 0004, 'Visit Type' 'Outpatient', 'Location' 'Farmasi Bekalan Wad - Rx F', and 'Department' 'General Medicine'. There are 'Clear', 'Visit Management', and 'Patient Label' buttons.

The 'VISIT RECORD' section is highlighted with a red circle containing the number '2'. It contains fields for 'Original Prescriber Name' and 'Original Prescription Serial Number'.

On the left, a sidebar menu lists various assessment types: 'Patient Diagnosis', 'Allergy', 'Adverse Drug Reaction', 'Nutritional Assessment', 'Normal Order', 'Infusion Order', 'Parenteral Nutrition', and 'Cytotoxic Drug' (which is highlighted in yellow).

The main area shows 'CDR REGIMEN DETAILS' with a 'CDR Cycle History' button. It includes fields for 'Regimen Code', 'Regimen Description', 'Cycle Start Date', 'Cycle End Date', 'Cycle Duration' (in Days), 'BSA', 'Total Cycle', 'Cycle No', and 'Calculate Dose Using' (with a dropdown menu and a 'Kg' unit field). There is also a 'Remarks' text area.

Figure 4.0-5 Prescription – Medication Order

Search	
X	
<input type="text"/> / 27	
Prescriber Name	Department/Discipline
[Blurred]	Orthopaedic
[Blurred]	General Medicine 3
[Blurred]	General Medicine
[Blurred]	Mouth Maxillofacial Surgery
[Blurred]	Mouth Maxillofacial Surgery
[Blurred]	Paediatric
[Blurred]	Chemical Pathology
[Blurred]	Emergency Medicine
[Blurred]	Anaesthesiology
[Blurred]	Otorhinolaryngology

Figure 4.0-6 Prescriber

STEP 2

Click on the  button to search **Original Prescriber Name** as per Figure 4.0-6

STEP 3

Double click on the prescriber name

MEDICATION ORDER

	Mykad	Age 31 Years 02 Months 26 Days	Gender Male	MRN HKLM00198332
Address	Phone And Email	Diagnosis	No known Allergies	
Height <input type="text" value="172"/> cm	Weight <input type="text" value="78"/> kg	BMI/BSA 26.4 / 1.93 m ²	Update (Last Updated : 24/07/2019) Nationality : Warganegara	

[Upload Photo](#)

[Lab Parameter](#) | [Counselling History](#) | [Demographic](#) | [Pharmacist Notes](#) | [Medication Profile](#) | [Other Appointment](#)

VISIT RECORD

Original Prescriber Name	Original Prescription Serial Number CDR1001 4
--------------------------	--

Figure 4.0-7 Medication Order

STEP 4

Enter **Original Transaction Number** and **Original Order Transaction Number**

<ul style="list-style-type: none"> Patient Diagnosis Allergy Adverse Drug Reaction Nutritional Assessment Normal Order Infusion Order Parenteral Nutrition <li style="background-color: yellow;">Cytotoxic Drug Reconstitution 	<p style="text-align: right;">CDR Cycle History</p> <p>CDR REGIMEN DETAILS</p> <p style="text-align: right;">Confirm Draft Prescription</p> <p>Regimen Code <input type="text"/> 5 Regimen Details</p> <p>Cycle Start Date <input type="text"/> Cycle End Date <input type="text"/></p> <p>Total Cycle <input type="text"/> Cycle No <input type="text"/></p> <p>Remarks <input type="text"/></p> <p>Regimen Description <input type="text"/></p> <p>Cycle Duration <input type="text"/> Days BSA <input type="text"/></p> <p>Calculate Dose Using <input type="text"/> Kg</p> <p>PRESCRIPTION</p>
--	---

Figure 4.0-8 Medication Order

STEP 5



Search and select **Regimen Code** from dropdown box to display CDR regimen details based on:

- Regimen Code
- Regimen Description
- Regimen Type
- Regimen Category

Note

- **Regimen Code** need to be setup first in **Regimen Master** by HQ:
 - a) CDR Regimen Category
 - b) Regimen Master

- Fill in or edit **CDR Regimen Details** if have incomplete details as below:
 - a) **No. Of Cycle**
No. Of Cycle is number of times the regimen suggested to be taken.

 - b) **Cycle Duration**
Cycle Duration is a time indication of a regimen. Within cycle duration of a regimen, no other regimen should be started.

 - c) **Cycle Start Date and Cycle End Date**
System will be automatically calculated cycle end date based on cycle start date and cycle duration.

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

- System will be automatically calculated the weight (kg) and BSA according to **Calculate Dosage Using** selected. It will give effect on **Total Dose** if user selects Dosage by per kg or by m2.

- Click on the [Regimen Details](#) hyperlink to display regimen details as per Figure 4.0-11.

Search Regimen
X

Active Ingredient

Regimen Category

Regimen Description

Regimen Type

<< 1 / 31 >>
[1 - 10 / 308]

Regimen Code	Regimen Description	Regimen Type	Regimen Category
CDRON00010	Cisplatin 80mg/m2 + 5FU 1g/m2, 5days	-	Oncology
CDRON00005	Methotrexate(MTX) 40mg/m2, weekly	-	Oncology
CDRON00003	Cisplatin 100mg/m2, 3-weekly	-	Oncology
CDRON00095	Cisplatin + Methotrexate(MTX)	-	Oncology
CDRON00006	Carboplatin + 5FU + FA	-	Oncology
CDRON00002	Cisplatin 75mg/m2 + 5FU 750mg/m2, 5days	-	Oncology
CDRON00009	Carboplatin, weekly	-	Oncology
CDRON00001	Carboplatin + 5FU 600mg/m2, 4days	-	Oncology
CDRON00008	Cisplatin 40mg/m2 Weekly	-	Oncology
CDRON00004	Cisplatin 100mg/m2 + Docetaxel 75/mg2 + 5FU 1g/m2, 4days	-	Oncology

Figure 4.0-9 Search Regimen

CDR
CDR Cycle History

CDR REGIMEN DETAILS
Confirm Draft Prescription

Regimen Code * [Regimen Details](#)

Regimen Description

Cycle Start Date *

Cycle End Date *

Cycle Duration * Days

BSA

Total Cycle *

Cycle No *

Calculate Dose Using

Kg

Remarks

Figure 4.0-10 CDR Regimen Details

REGIMEN DETAILS
X

Category

Regimen Code

Regimen Description

Cycle Duration

Remarks

Active Ingredient	Admin Route	Dosage	Frequency	Chemo day	Infuse Over	Diluent	Diluent Volume	Drug Remark	Status
Methotrexate	Intravenous Slow Bolus	40 mg/m2	OD (once daily)	1	0 Hours 0 Minutes				Active

Figure 4.0-11 Regimen Details

PRESCRIPTION					
Drug/Diluent Name	Order Details	Dose Qty	Order Qty	Drug Info	
Methotrexate 50mg/2ml Injection	40 mg/m2, OD (once daily), Day: 1 Schedule	3.09 ml	2 vial	<i>i</i>	

Oral/Others Drugs	Injectable Drugs
Active Ingredient	<input type="text"/> Update
Dosage	<input type="text" value="50"/> * <input type="text" value="/m2"/> <input type="text"/>
Total Dose	<input type="text" value="96.5"/> * <input type="text"/> AUC Calculator
Admin Route	<input type="text"/>
Frequency	<input type="text"/>
Chemo Day	<input type="text" value="1"/>
Drug Indication	<input type="text"/>
Infuse Over	<input type="text"/> (Hour) : <input type="text"/> (Minute)
Diluent	<input type="text"/>
Diluent Volume	<input type="text"/>
Infusion Rate	<input type="text"/>
Remarks	<input type="text"/>

Figure 4.0-12 Prescription

DOSE SCHEDULE					
Chemo Day	Date	Total Dose	UOM	Time	Supplied
1	24/07/2019	77.2	mg	08:00 <input type="text"/>	<input type="checkbox"/>

Figure 4.0-13 Dose Schedule

Note

- System will be displayed prescriptions based on regimen code selected in CDR Regimen Details.
- To delete not related drugs for that prescription, click on button. System will be deleted selected drug and that drug will not be flow for dispensing. Otherwise all drugs will flow to dispensing.
- System will be displayed Regimen Drug Details based on Regimen Code selected.
- User able to edit or update Regimen Drug Details:
 - Dosage
 - Total Dose
 - Frequency
 - Chemo Day
 - Admin Route
 - Drug Indication
 - Infuse Over
 - Diluent
 - Diluent Volume
 - Infusion Rate
 - Remarks

- If select **Dosage** milligram or milliliter and 'kg' or 'm2' from dropdown menu, **Total Dose** will be displayed based on Calculate Dose Using selected previously in CDR Regimen Details.
- For Dose Schedule, user able to edit Date and Time dose to be taken.

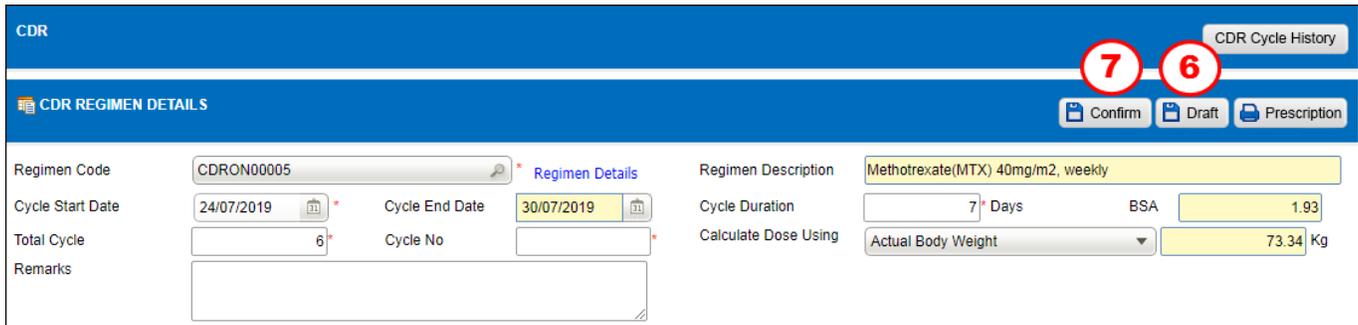


Figure 4.0-14 Draft Button

STEP 6

Click on the  button to save record

Note

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

STEP 7

Click on the  button to confirm CDR order

Note

- Confirmation dialog will be display as Figure 4.0-15

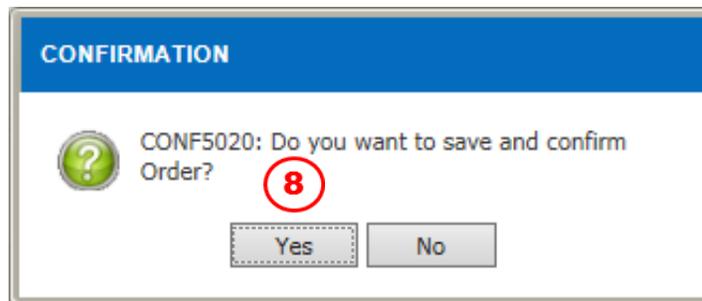


Figure 4.0-15 Confirmation

STEP 8

Click on the  button to confirm order and CDR Verification screen as per Figure 4.0-17 displayed

Note

The  button to print CDR Prescription Order as per Figure 4.0-16



**Ministry of Health, Malaysia
 Hospital Kulim
 Cytotoxic Drug Reconstitution**

Patient Name : [Redacted] Patient ID : [Redacted]
 Age : 31 Y 2 M 26 D MRN : HKLM00198332
 Gender : Male Prescription # : FBWFill0000403131
 Height/Weight/BSA : 172 cm / 78 kg / 1.93 m² Order Date/Time : 24/07/2019 04:46 PM
 Allergy : Location : Farmasi Bekalan Wad - Rx Filling

Diagnosis :
 Regimen Code : CDRON00005
 Regimen Description : Methotrexate(MTX) 40mg/m2, weekly
 Cycle Start Date : 24/07/2019 Cycle Duration : 7 Days Total Cycle : 6 Current Cycle : 1

Route	Drug Name	Dosage	Total Dose	Diluent	Diluent Vol	Frequency	Chemo Day
IVSB	Methotrexate	40 mg/m2	77.2 mg			OD (once daily)	1

Prescribed By : [Redacted]
 Designation : Pegawai Perubatan
 Department : General Medicine

Figure 4.0-16 CDR Prescription Order

Note

CDR Prescription Order consists of:

- *Patient's Details*
- *CDR Drug Prescriptions*
- *Prescriber Details*



CDR Verification :

CDR

CDR REGIMEN DETAILS PROCEED TO DISPENSE Prescription Verify

Regimen Code: <input type="text" value="CDRON0005"/> Regimen Details	Regimen Description: <input type="text" value="Methotrexate(MTX) 40mg/m2, weekly"/>
Cycle Start Date: <input type="text" value="24/07/2019"/> <input type="text" value="30/07/2019"/>	Cycle Duration: <input type="text" value="7"/> Days BSA: <input type="text" value="1.93"/>
Total Cycle: <input type="text" value="6"/> Cycle No: <input type="text" value="1"/>	Calculate Dose Using: <input type="text" value="Actual Body Weight"/> <input type="text" value="73.34"/> Kg
Remarks: <input style="width: 100%;" type="text"/>	

PRESCRIPTION

Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status
Methotrexate 50mg/2ml Injection	77.2 mg	3.09 ml	40 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	Remarks	ORDERED Drug Info

Figure 4.0-17 CDR Verification

DOSE SCHEDULE X

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

Chemo Day	Date	Total Dose	UOM	Time	Supplied
1	24/07/2019 <input type="text"/>	77.2	mg	08:00 <input type="text"/>	<input type="checkbox"/>

Figure 4.0-18 Dose Schedule

Note

- Click on the [Schedule](#) hyperlink to view Dose Schedule as Figure 4.0-18.
- Click on the [Remarks](#) hyperlink to enter Pharmacist Remark as Figure 4.0-19. Enter remark on the Verification Stage field.

PHARMACIST REMARK X

Prescriber Remark

Order Stage:

Pharmacist Remark

Verification Stage:

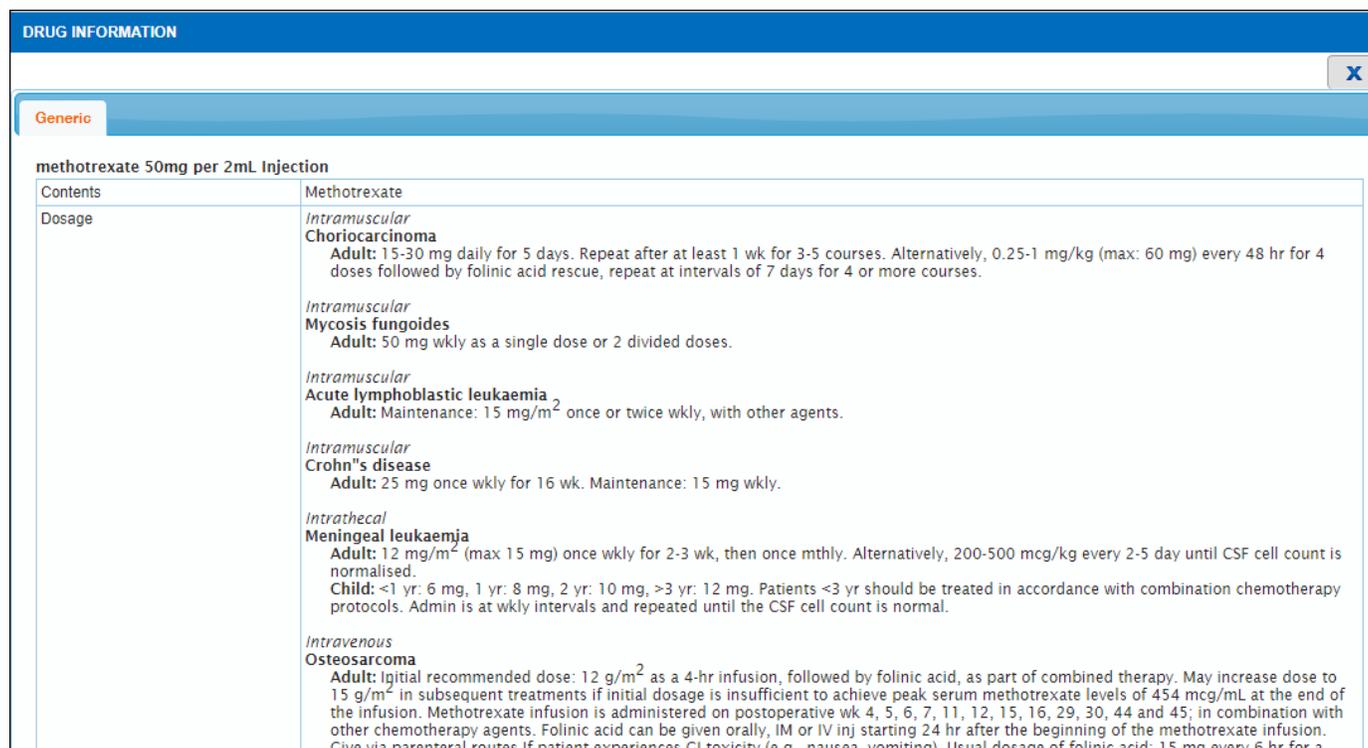
Preparation Stage:

Dispensing Stage:

Figure 4.0-19 Pharmacist Remark

Note

Click on the [Drug Info](#) hyperlink to view Drug Information as Figure 4.0-20.



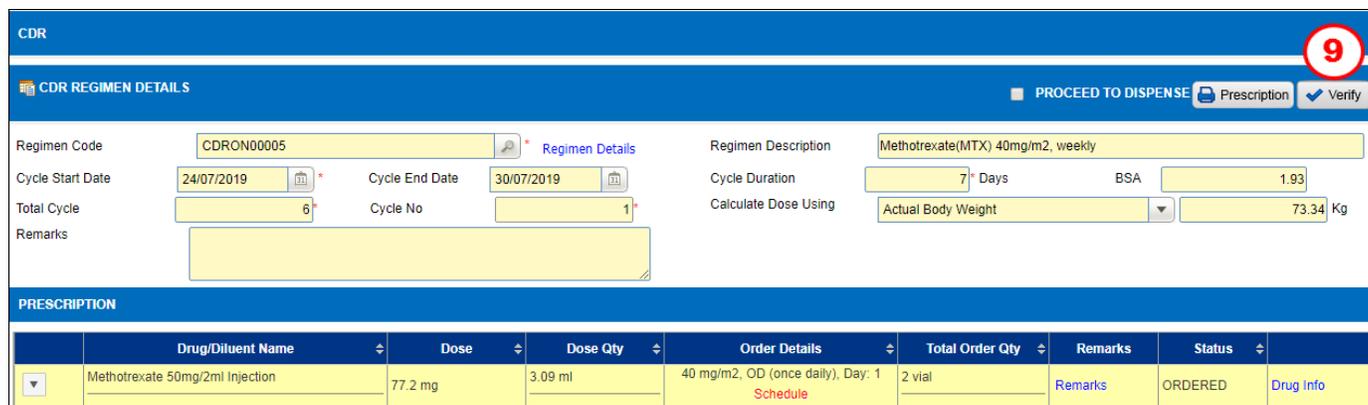
DRUG INFORMATION

Generic

methotrexate 50mg per 2mL Injection

Contents	Methotrexate
Dosage	<p>Intramuscular Choriocarcinoma Adult: 15-30 mg daily for 5 days. Repeat after at least 1 wk for 3-5 courses. Alternatively, 0.25-1 mg/kg (max: 60 mg) every 48 hr for 4 doses followed by folinic acid rescue, repeat at intervals of 7 days for 4 or more courses.</p> <p>Intramuscular Mycosis fungoides Adult: 50 mg wkly as a single dose or 2 divided doses.</p> <p>Intramuscular Acute lymphoblastic leukaemia Adult: Maintenance: 15 mg/m² once or twice wkly, with other agents.</p> <p>Intramuscular Crohn's disease Adult: 25 mg once wkly for 16 wk. Maintenance: 15 mg wkly.</p> <p>Intrathecal Meningeal leukaemia Adult: 12 mg/m² (max 15 mg) once wkly for 2-3 wk, then once mthly. Alternatively, 200-500 mcg/kg every 2-5 day until CSF cell count is normalised. Child: <1 yr: 6 mg, 1 yr: 8 mg, 2 yr: 10 mg, >3 yr: 12 mg. Patients <3 yr should be treated in accordance with combination chemotherapy protocols. Admin is at wkly intervals and repeated until the CSF cell count is normal.</p> <p>Intravenous Osteosarcoma Adult: Igitial recommended dose: 12 g/m² as a 4-hr infusion, followed by folinic acid, as part of combined therapy. May increase dose to 15 g/m² in subsequent treatments if initial dosage is insufficient to achieve peak serum methotrexate levels of 454 mcg/mL at the end of the infusion. Methotrexate infusion is administered on postoperative wk 4, 5, 6, 7, 11, 12, 15, 16, 29, 30, 44 and 45; in combination with other chemotherapy agents. Folinic acid can be given orally, IM or IV inj starting 24 hr after the beginning of the methotrexate infusion. Give via parenteral routes if patient experiences GI toxicity (e.g. nausea, vomiting). Usual dosage of folinic acid: 15 mg every 6 hr for a</p>

Figure 4.0-20 Drug Information



CDR

CDR REGIMEN DETAILS

PROCEED TO DISPENSE Prescription Verify

Regimen Code: CDRON0005 Regimen Description: Methotrexate(MTX) 40mg/m2, weekly

Cycle Start Date: 24/07/2019 Cycle End Date: 30/07/2019 Cycle Duration: 7 Days BSA: 1.93

Total Cycle: 6 Cycle No: 1 Calculate Dose Using: Actual Body Weight 73.34 Kg

PRESCRIPTION

Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status
Methotrexate 50mg/2ml Injection	77.2 mg	3.09 ml	40 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	Remarks	ORDERED Drug Info

Figure 4.0-21 Verification

STEP 9

Click on the  button to verify the order and alert message will be displayed as per Figure 4.0-22

Note

- Click on the  button to confirm the verification.
- Verified order will flow to preparation stage.

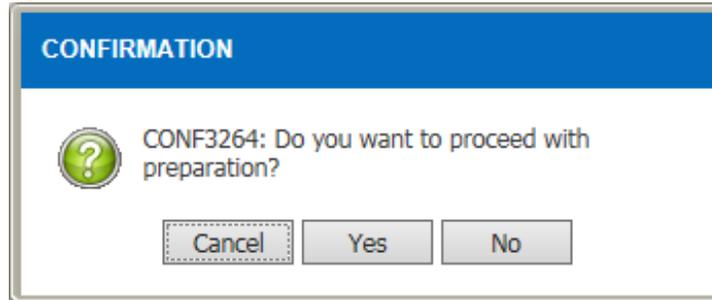


Figure 4.0-22 Confirmation Alert Message

Note

Intervention:

- This function is for pharmacist to record intervention and modifies the prescription details.
- Right click on the  button and select Intervention function and Intervention screen will be displayed as per Figure 4.0-23.
- Select Intervention Reason checkbox.
- Enter Remarks.
- Select Intervention Status radio button. Pharmacist will select as Intervention Accepted after confirm status from prescriber.

INTERVENTION				
INTERVENTION REASON				
Intervention Reason	Remarks	Intervention Accepted	Intervention Not Accepted	
<input type="checkbox"/> Authenticity		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Contraindication		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Drug Interaction		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Inappropriate Dose		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Inappropriate Drug		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Inappropriate Duration		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Inappropriate Frequency		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Incompatibility		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Others		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Polypharmacy		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Suggest to Monitor Vital Signs/Lab Result		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> TPN		<input type="radio"/>	<input type="radio"/>	
<input type="checkbox"/> Wrong Patient		<input type="radio"/>	<input type="radio"/>	

Figure 4.0-23 Intervention

Note

- Click on the  button to save the record and alert message will be displayed as per Figure 4.0-24.
- Click on the button to confirm saved.

- To view the intervention history, user is allowed to click on the  button to view as per Figure 4.0-25.

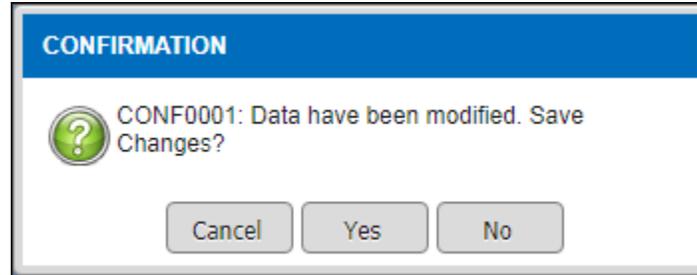


Figure 4.0-24 Confirmation Alert Message

INTERVENTION REASON HISTORY LISTING			
			X
<input type="button" value="1"/> / 1		[1 - 1 / 1]	
Date/Time	Intervention Reason	Remarks	Updated By
25/07/2019 10:08:21 AM	Suggest to Monitor Vital Signs/Lab Result	Need Doctor Approval	

Figure 4.0-25 Intervention Reason History Listing

Hold CDR Order:

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status
▼	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m ² , OD (once daily), Day: 2,3,4,5	8 vial	0 of 4 dose(s) supplied	0 vial	8 vial	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		Schedule	8 bott		0 bott	8 bott			0 bott	
▼	Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m ² , OD (once daily), Day: 1	4 vial	0 of 1 dose(s) supplied	0 vial	4 vial	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		Schedule	2 bott		0 bott	2 bott			0 bott	
▼	Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m ² , OD (once daily), Day: 1	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 250mL IV soln		250 ml		Schedule	1 bott		0 bott	1 bott			0 bott	

Figure 4.0-26 Hold Order

Note

- This function is for pharmacist to hold/resume the CDR order.
- Right click on the button and select **Hold Order** function and alert message will be displayed as per Figure 4.0-27.
- Click on the button and system will hold all the drugs in the prescription.
- Click on the button and system will only hold the selected drug.
- Hold Order – Pharmacist Remarks will be displayed after clicking on the or button as per Figure 4.0-28.

CONFIRMATION

CONF0056: Hold function is selected for one drug. Do you want to Hold all other drugs in the prescription ?

Figure 4.0-27 Confirmation Alert Message

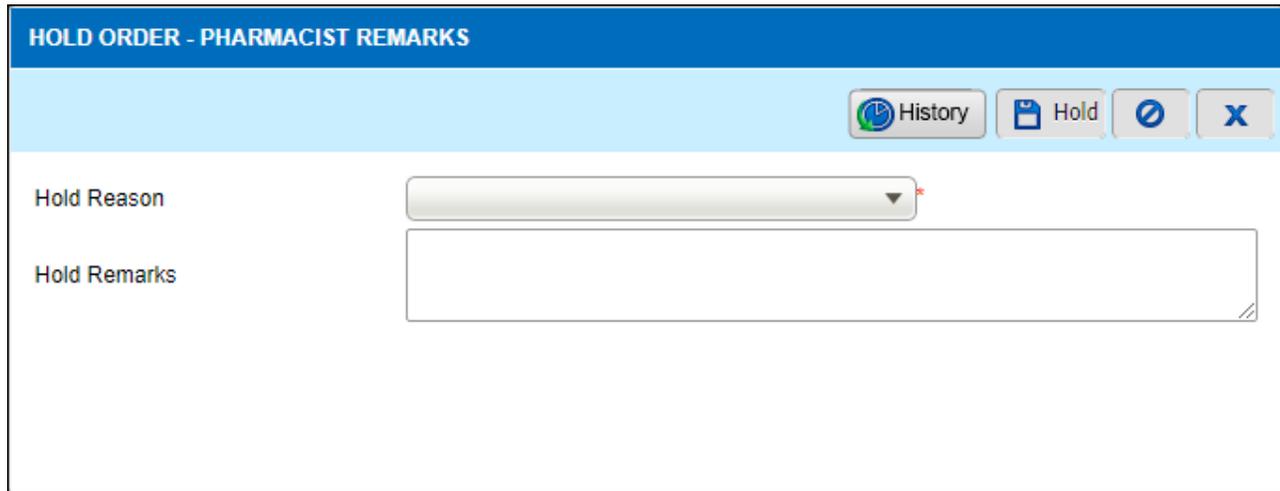


Figure 4.0-28 Hold Order-Pharmacist Remarks

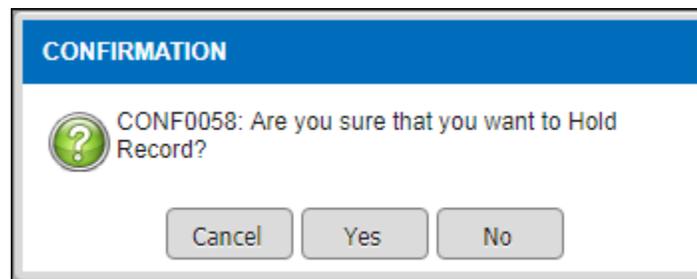


Figure 4.0-29 Confirmation Alert Message

Note

- Select **Hold Reason** from dropdown box
 - Authenticity
 - Contraindication
 - Drug Interaction
 - Inappropriate Dose
 - Inappropriate Drug
 - Inappropriate Duration
 - Inappropriate Frequency
 - Incompatibility
 - Others
 - Patient Refused
 - Polypharmacy
 - Suggest to Monitor Vital Signs/Lab Result
 - Wrong Patient
- Enter Hold Remarks is required
- Click on the  button to hold the order and alert message will display as per Figure 4.0-29
- Click on the  button to confirm the Hold Record.
- **Status** will change to Verified Hold.

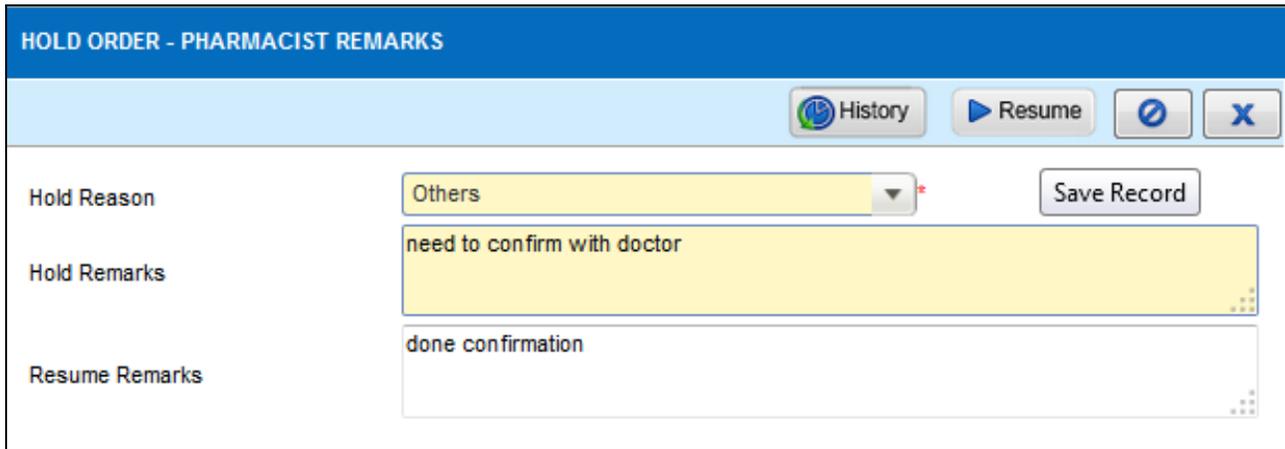


Figure 4.0-30 Hold Order-Pharmacist Remarks

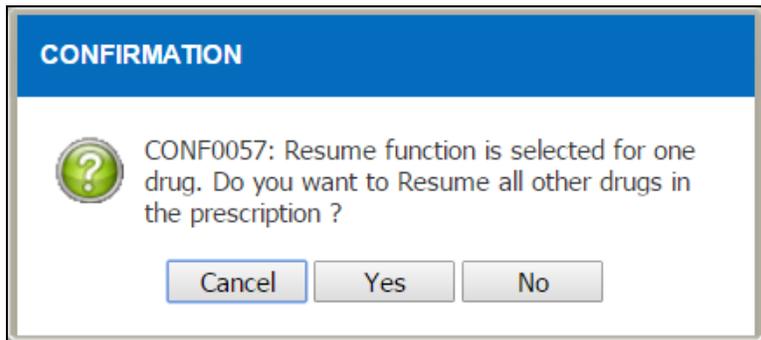


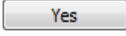
Figure 4.0-31 Confirmation Alert Message



Date Time	Screen	Hold Reason	Remarks	Resume Remarks	Updated By
27/08/2014 04:22:25 PM	Preparation	Others	need to confirm with doctor	done confirmation	Pharmacist CDR
27/08/2014 04:18:45 PM	Preparation	Others	need to confirm with doctor	done confirmation	Pharmacist CDR

Figure 4.0-32 Hold Reason History Listing

Note

- Enter Resume Remarks if required.
- Click on the  button to resume the hold order and alert message will be displayed as Figure 4.0-31.
- Click on the  button to confirm the Resume Record.
- **Status** will change to Verified.
- To view the hold reason history, user is allowed to click on the  button to view as per Figure 4.0-32.



CDR Preparation:

CDR PREPARATION

Prescription X

Mykad: [Redacted] Age: 31 Years 02 Months 27 Days Gender: Male MRN: HKLM00198332

Address: [Redacted] Phone And Email: [Redacted] Diagnosis: [Redacted] No known Allergies

Height: 172 cm Weight: 78 kg BMI/BSA: 26.4 / 1.93 m² (Last Updated: 25/07/2019) Nationality: Warganegara

Lab Parameter | Counselling History | Demographic | Pharmacist Notes | Medication Profile | Other Appointment |

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: [Redacted] Cycle Start Date: 25/07/2019

Original Prescription

Outsource CDR Cycle History Worksheet Label Prepare

Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status
Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m2, OD (once daily), Day: 2,3,4,5	8 vial	0 of 4 dose(s) supplied	0 vial	8 vial	<input type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
Sodium Chloride 0.9% 500mL IV soln		1000 ml	Schedule	8 bott		0 bott	8 bott	<input type="checkbox"/>	<input type="checkbox"/>	0 bott		
Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m2, OD (once daily), Day: 1	4 vial	0 of 1 dose(s) supplied	0 vial	4 vial	<input type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
Sodium Chloride 0.9% 500mL IV soln		1000 ml	Schedule	2 bott		0 bott	2 bott	<input type="checkbox"/>	<input type="checkbox"/>	0 bott		
Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m2, OD (once daily), Day: 1	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial	<input type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
Sodium Chloride 0.9% 250mL IV soln		250 ml	Schedule	1 bott		0 bott	1 bott	<input type="checkbox"/>	<input type="checkbox"/>	0 bott		

Figure 4.0-33 CDR Preparation

STEP 10

Click on the **Prepare Qty** hyperlink and Item Batch Details window will be displayed to allocate quantity as Figure 4.0-34

ITEM BATCH DETAILS

Drug Code: B05XA03100P6002a Default SKU: bottle

Drug Name: Sodium Chloride 0.9% 500mL IV soln Dispense UOM: bottle

Supply: Day 2,3 Date From: 27/07/2019 To: 28/07/2019

Chemo Day	Date	Total Dose	UOM	Time	Supplied
2	27/07/2019	1930	mg	08:00	<input type="checkbox"/>
3	28/07/2019	1930	mg	08:00	<input checked="" type="checkbox"/>
4	29/07/2019	1930	mg	08:00	<input type="checkbox"/>
5	30/07/2019	1930	mg	08:00	<input type="checkbox"/>

Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
P3107089	27/04/2022	24	bottle 4	
P3107255	30/11/2022	20	bottle 0	

Total Location Quantity: 44 Total Allocated Quantity: 4

Figure 4.0-34 Item Batch Details

STEP 11

Click on the selected **Supplied** checkbox to select the dose to prepare

STEP 12

Click on the  button to save the record

After saved, **Prepare Qty** will display base on total allocated quantity in Item Batch Details Screen will display as shown in Figure 4.0-35.

CDR PREPARATION

Prescription

	Mykad	Age 31 Years 02 Months 27 Days	Gender Male	MRN HKLM00198332
Address	Phone And Email	Diagnosis	No known Allergies	
Height 172 cm Weight 78 kg BMI/BSA 26.4 / 1.93 m ² (Last Updated : 25/07/2019) Nationality : Warganegara				

[Lab Parameter](#) | [Counselling History](#) | [Demographic](#) | [Pharmacist Notes](#) | [Medication Profile](#) | [Other Appointment](#)

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: Start Date: 25/07/2019
 Original Prescription Serial No: CDR1003

PRESCRIPTION

Outsource CDR Cycle History Worksheet Label Prepare

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status
	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m2, OD (once daily), Day: 2,3,4,5	8 vial	0 of 4 dose(s) supplied	8 vial	8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln	1930 mg	1000 ml	Schedule	8 bott	0 of 4 dose(s) supplied	8 bott	8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks	VERIFIED
	Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m2, OD (once daily), Day: 1	4 vial	0 of 1 dose(s) supplied	4 vial	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln	193 mg	1000 ml	Schedule	2 bott	0 of 1 dose(s) supplied	2 bott	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks	VERIFIED
	Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m2, OD (once daily), Day: 1	2 vial	0 of 1 dose(s) supplied	0 vial	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 250mL IV soln	144.75 mg	250 ml	Schedule	1 bott	0 of 1 dose(s) supplied	0 bott	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks	VERIFIED

Figure 4.0-35 CDR Preparation

STEP 13

Click on the selected *Prepared Admixture* checkbox to proceed with preparation

Note

- Prepare Admixture Screen will save automatically upon clicking the checkbox
- If user needs to edit/change the input in Preparation details, click on Details hyperlink and system will display as Figure 4.0-36.

PREPARATION DETAILS

Save Refresh Close

Using CSTD

Storage Below 0 °C Refrigerate (2 - 8 °C)
 Protect from Light Room Temperature (< 25 °C)

Reconstitution Fluid

Preparation Instruction

Figure 4.0-36 CDR Preparation Details



PhIS & CPS Project

User Manual – Order Management - Cytotoxic Drug Reconstitution (CDR)



CDR PREPARATION

Prescription

	Mykad	Age 31 Years 02 Months 27 Days	Gender Male	MRN HKLM00198332
Address	Phone And Email	Diagnosis	No known Allergies	
Height 172 cm Weight 78 kg BMI/BSA 26.4 / 1.93 m ² (Last Updated : 25/07/2019) Nationality : Warganegara				

[Lab Parameter](#) | [Counselling History](#) | [Demographic](#) | [Pharmacist Notes](#) | [Medication Profile](#) | [Other Appointment](#)

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: Cycle Start Date: 25/07/2019

Original Prescription Serial No: CDR1003

PRESCRIPTION
[1 - 3 / 3]

Outsource CDR Cycle History Worksheet Label Prepare

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status
▼	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m ² , OD (once daily), Day: 2,3,4,5 Schedule	8 vial	0 of 4 dose(s) supplied	8 vial	8 vial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		8 bott		8 bott	8 bott	8 bott	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks
▼	Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m ² , OD (once daily), Day: 1 Schedule	4 vial	0 of 1 dose(s) supplied	4 vial	4 vial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		2 bott		2 bott	2 bott	2 bott	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks
▼	Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m ² , OD (once daily), Day: 1 Schedule	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 250mL IV soln		250 ml		1 bott		1 bott	1 bott	1 bott	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks

Figure 4.0-37 CDR Preparation

STEP 14

Click on the **Worksheet** button to view and print as shown in Figure 4.0-38



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



CDR WORKSHEET											
MINISTRY OF HEALTH											
Hospital Kulim											
Date of preparation : 25/07/2019						Worksheet ID: 19-07-0001					
Name [Redacted]						Rx. No. CDR0000403138					
MRN HKLM00198332						Order By [Redacted]					
ID NO 880428085277						Current Visit Location Farmasi Cytotoxic Drug Reconstitution					
No	ROA	Preparation Name	Drug/Diluent Name	Material Used						Storage	Instruction
				Total Dose	Drug / Diluent Vol	No of Dose	Allocated Qty	Batch No	Expiry Date		
1	INF	Fluorouracil Recons. Fluid:-	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	4 dose(s) to supply	8 vial	A211	14/09/2020	Refrigerate (2 - 8 °C)	
			Sodium Chloride 0.9% 500mL IV soln		1000 ml		8 vial	P3107089	27/04/2022		
2	INF	Cisplatin Recons. Fluid:-	Cisplatin 50mg/50ml Injection	193 mg	193 ml	1 dose(s) to supply	4 vial	P0009	28/02/2021	Refrigerate (2 - 8 °C)	
			Sodium Chloride 0.9% 500mL IV soln		1000 ml		2 vial	P3107089	27/04/2022		
3	INF	Docetaxel Recons. Fluid:Manf Supplied diluent - 8ml	Docetaxel 80mg Injection	144.75 mg	14.47 ml	0 dose(s) to supply				Refrigerate (2 - 8 °C)	
			Sodium Chloride 0.9% 250mL IV soln		250 ml						

Worksheet generated by [Redacted]	Worksheet & label checked by [Redacted]	Prepared by [Redacted]	Final Product Checked by [Redacted]
Date: 25/07/2019	Date:	Date:	Date:

Figure 4.0-38 CDR Worksheet

CDR PREPARATION Prescription X

Mykad [Redacted] |
 Age 31 Years 02 Months 27 Days |
 Gender Male |
 MRN HKLM00198332

Address [Redacted] |
 Phone And Email [Redacted] |
 Diagnosis [Redacted] |
 No known Allergies

Height 172 cm |
 Weight 78 kg |
 BMI/BSA 26.4 / 1.93 m² (Last Updated : 25/07/2019) |
 Nationality : Warganegara

[Lab Parameter](#) |
 [Counselling History](#) |
 [Demographic](#) |
 [Pharmacist Notes](#) |
 [Medication Profile](#) |
 [Other Appointment](#)

Encounter No: **0002** |
 Actual Visit Date: 25/07/2019 |
 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution |
 Rx No: CDR0000403138 |
 Order By: [Redacted] |
 Cycle Start Date: 25/07/2019 15

Original Prescription Serial No: CDR1003

PRESCRIPTION
[Outsource](#) |
 [CDR Cycle History](#) |
 [Worksheet](#) |
 [Label](#) |
 [Prepare](#)

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status
▼	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m ² , OD (once daily), Day: 2,3,4,5	8 vial	0 of 4 dose(s) supplied	8 vial	8 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml	8 bott	8 bott		8 bott	0 vial	Remarks				
▼	Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m ² , OD (once daily), Day: 1	4 vial	0 of 1 dose(s) supplied	4 vial	4 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml	2 bott	2 bott		2 bott	0 vial	Remarks				
▼	Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m ² , OD (once daily), Day: 1	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 250mL IV soln		250 ml	1 bott	1 bott		0 bott	1 bott	0 bott	Remarks			

Figure 4.0-39 CDR Preparation

STEP 15

Click on the  button and CDR Edit Label screen will be displayed as shown in Figure 4.0-40

Drug Name	Total Dose	Drug Volume	Route	Treatment Date	Prepared Date	Expire Date	Price(RM)	Storage	Diluent	Diluent Volume	Total Volume	Infusion Rate	Infusion Over	No Of Label To Print	Split Preparation
Fluorouracil	1930 mg	38.6 ml	Intravenous Infusion	25/07/2019	25/07/2019	25/07/2019	604.32	Refrigerate (2 - 8 °C)	Sodium Chloride 0.9% 500mL IV soln	1000 ml	1038.6 ml	20.83 ml/Hour	24 hr 0 m	4	Split to 4 labels
Cisplatin	193 mg	193 ml	Intravenous Infusion	25/07/2019	25/07/2019	25/07/2019	85.28	Refrigerate (2 - 8 °C)	Sodium Chloride 0.9% 500mL IV soln	1000 ml	1193 ml	250 ml/Hour	2 hr 0 m	1	Split to 1 labels

Figure 4.0-40 CDR Edit Label

STEP 16

Click on the  button to print drug label

	HOSPITAL KULIM	
CYTOTOXIC DRUG - Handle with care		
HKLM00198332 Farmasi Cytotoxic Drug		
Drug name	Fluorouracil	ROA : INF
Dose :	1930 mg	Vol :38.6 ml
IV Fluid :	Sodium Chloride 0.9% 500mL IV soln	
Inf. Rate :	20.83 ml/Hour	Inf. Over : 24 hr 0 m Vol : 1000 ml
Treatment Date	25/07/2019	Total Vol 1038.6 ml
Prepared Date :	25/07/2019	Exp Date 25/07/2019
Price :	RM604.32	Exp Time :
Storage :	Refrigerate (2 - 8 °C)	

Figure 4.0-41 Label

Note

- Select all checkbox to print all drug labels in the selected prescription.
- Select Split Preparation: Split to 2, 3, 4 or 5 labels as shown in Figure 4.0-42.

CDR EDIT LABEL

Select All

<input checked="" type="checkbox"/>	Drug Name Total Dose Drug Volume Route Treatment Date Prepared Date Expire Date Price(RM) Storage	Cisplatin 77.2 mg 77.2 ml Intravenous Infusion <input type="text" value="31/07/2019"/> <input type="text" value="31/07/2019"/> <input type="text" value="31/07/2019"/> <input type="text" value="42.64"/> Refrigerate (2 - 8 °C)	Diluent Diluent Volume Total Volume Infusion Rate Infusion Over No Of Label To Print Split Preparation	Sodium Chloride 0.9% 500mL IV soln 500 ml 577.2 ml 250 ml/Hour 1 hr 0 m <input type="text" value="1"/> <input checked="" type="checkbox"/> Split to <input type="text" value="2"/> labels
<input checked="" type="checkbox"/>	Drug Name Total Dose Drug Volume Route Treatment Date Prepared Date Expire Date Price(RM) Storage	Cisplatin 77.2 mg 77.2 ml Intravenous Infusion <input type="text" value="31/07/2019"/> <input type="text" value="31/07/2019"/> <input type="text" value="31/07/2019"/> <input type="text" value="42.64"/> Refrigerate (2 - 8 °C)	Diluent Diluent Volume Total Volume Infusion Rate Infusion Over	Sodium Chloride 0.9% 500mL IV soln 500 ml 577.2 ml 250 ml/Hour 1 hr 0 m

Figure 4.0-42 CDR Edit Label

	HOSPITAL KULIM
CYTOTOXIC DRUG - Handle with care	
HKLM00198332 Farmasi Cytotoxic Drug	
Drug name	Cisplatin ROA : INF
Dose :	77.2 mg Vol :77.2 ml
IV Fluid :	Sodium Chloride 0.9% 500mL IV soln
Inf. Rate :	250 ml/Hour Inf. Over : 1 hr 0 m Vol : 500 ml
Treatment Date	31/07/2019 Total Vol 577.2 ml
Prepared Date :	31/07/2019 Exp Date 31/07/2019
Price :	RM42.64 Exp Time :
Storage : Refrigerate (2 - 8 °C)	

	HOSPITAL KULIM
CYTOTOXIC DRUG - Handle with care	
HKLM00198332 Farmasi Cytotoxic Drug	
Drug name	Cisplatin ROA : INF
Dose :	77.2 mg Vol :77.2 ml
IV Fluid :	Sodium Chloride 0.9% 500mL IV soln
Inf. Rate :	250 ml/Hour Inf. Over : 1 hr 0 m Vol : 500 ml
Treatment Date	31/07/2019 Total Vol 577.2 ml
Prepared Date :	31/07/2019 Exp Date 31/07/2019
Price :	RM42.64 Exp Time :
Storage : Refrigerate (2 - 8 °C)	

Figure 4.0-43 CDR Drug Label (Split)

CDR PREPARATION

Prescription X

Mykad Mykad Age 31 Years 02 Months 27 Days Gender Male MRN HKLM00198332

Address Phone And Email Diagnosis No known Allergies

Height 172 cm Weight 78 kg BMI/BSA 26.4 / 1.93 m² (Last Updated : 25/07/2019) Nationality : Warganegara

Upload Photo

Lab Parameter | Counselling History | Demographic | Pharmacist Notes | Medication Profile | Other Appointment |

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: Cycle Start Date: 25/07/2019

Original Prescription Serial No: CDR1003

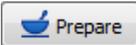
PRESCRIPTION Outsource CDR Cycle History Worksheet Label Prepare

[1 - 3 / 3]

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status
▼	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m2, OD (once daily), Day: 2,3,4,5 <i>Schedule</i>	8 vial	0 of 4 dose(s) supplied	8 vial	8 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		8 bott		8 bott	<input type="checkbox"/> Details	0 bott				
	Cisplatin 50mg/50ml Injection		193 ml		4 vial		4 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial			
▼	Sodium Chloride 0.9% 500mL IV soln	193 mg	1000 ml	100 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	2 bott	0 of 1 dose(s) supplied	2 bott	2 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED
	Docetaxel 80mg Injection		14.47 ml		2 vial		2 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial			
▼	Sodium Chloride 0.9% 250mL IV soln	144.75 mg	250 ml	75 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	1 bott	0 of 1 dose(s) supplied	0 bott	1 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED

Figure 4.0-44 CDR Preparation

STEP 17

Click on the  button to proceed with preparation and alert message will be displayed as Figure 4.0-45

CONFIRMATION

 CONF0060: Do you want to proceed with the preparation?

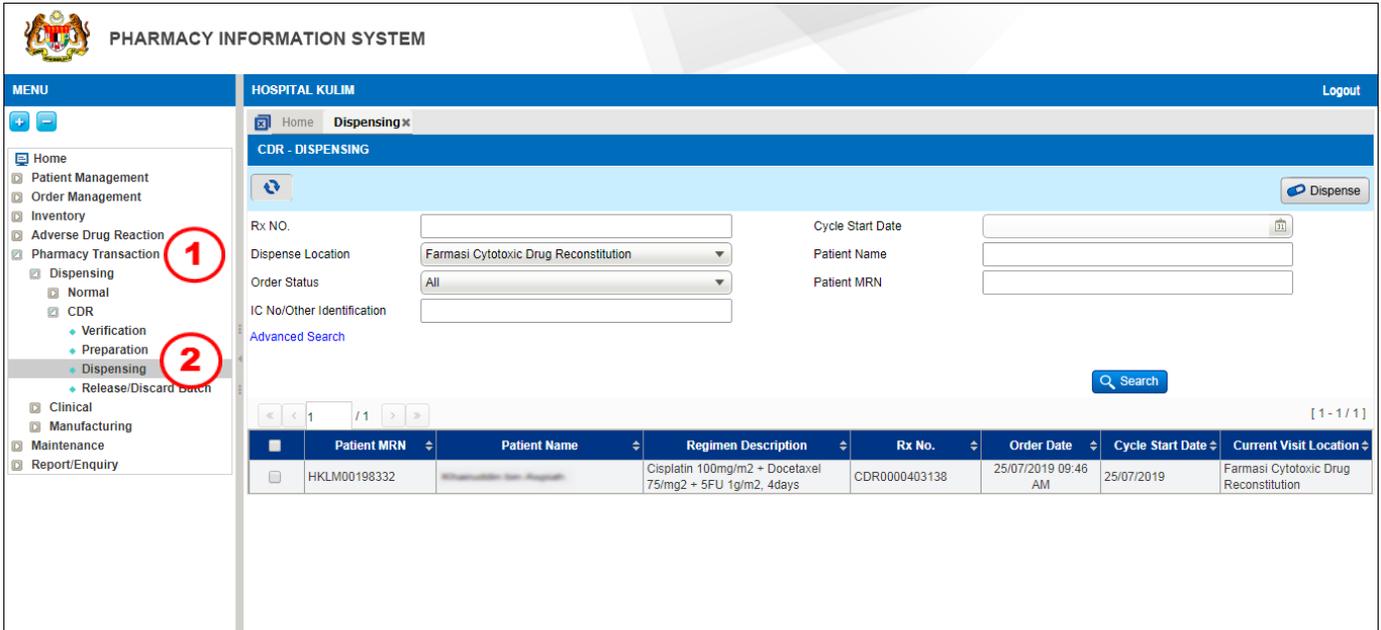
Figure 4.0-45 Confirmation Alert Message

Note

- Click on the button to proceed
- Click on the button to cancel preparation.

5.0 CDR Dispensing

This function is for pharmacist and assistant pharmacist to dispense the CDR preparation



PHARMACY INFORMATION SYSTEM

HOSPITAL KULIM Logout

Home **Dispensing**

CDR - DISPENSING Dispense

Rx NO. Cycle Start Date

Dispense Location Patient Name

Order Status Patient MRN

IC No/Other Identification

[Advanced Search](#)

[1 - 1 / 1]

	Patient MRN	Patient Name	Regimen Description	Rx No.	Order Date	Cycle Start Date	Current Visit Location
<input type="checkbox"/>	HKLM00198332	[REDACTED]	Cisplatin 100mg/m2 + Docetaxel 75/mg2 + 5FU 1g/m2, 4days	CDR0000403138	25/07/2019 09:46 AM	25/07/2019	Farmasi Cytotoxic Drug Reconstitution

Figure 5.0-1 CDR Dispensing Listing Page

STEP 1

Click on 'Pharmacy Transaction' menu follow by 'Dispensing' sub menu and select 'CDR'

STEP 2

Click on 'Dispensing' function

Note

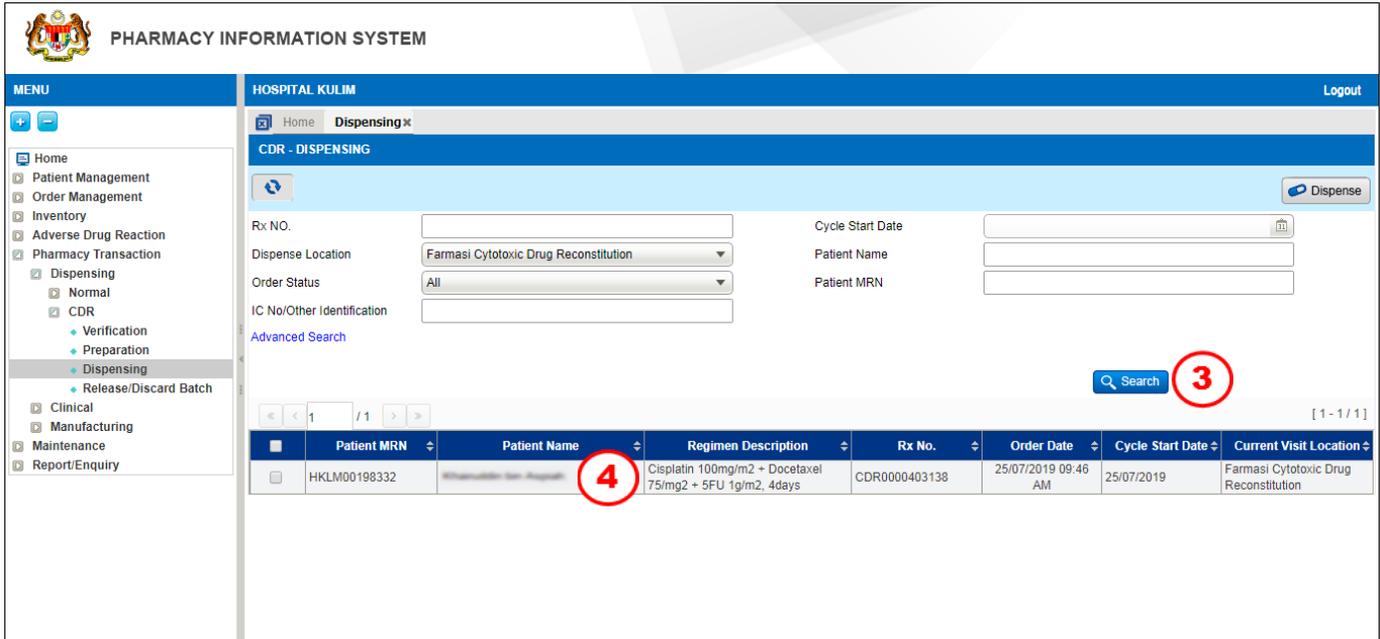
Various search criteria are provided as below:

- Basic Search
- Advance Search

Basic Search

Search patient record based:

- Rx NO.
- Dispense Location
 - CDR Pharmacy
 - Outpatient Pharmacy
- Order Status
 - All
 - Discharge Medications
 - Outsourced Orders
- Patient Name
- Patient MRN
- Administration Date From
- Administration Date To



PHARMACY INFORMATION SYSTEM

HOSPITAL KULIM

Home Dispensing x

CDR - DISPENSING

Dispense

Rx NO. Cycle Start Date

Dispense Location Patient Name

Order Status Patient MRN

IC No/Other Identification

Advanced Search

Search 3

[1 - 1 / 1]

	Patient MRN	Patient Name	Regimen Description	Rx No.	Order Date	Cycle Start Date	Current Visit Location
	HKLM00198332	██████████	Cisplatin 100mg/m2 + Docetaxel 75/mg2 + 5FU 1g/m2, 4days	CDR0000403138	25/07/2019 09:46 AM	25/07/2019	Farmasi Cytotoxic Drug Reconstitution

Figure 5.0-2 CDR Dispensing Listing Page

Advance Search

Search patient record based:

- a) Current Visit Location Type
 - All
 - Clinic Day Care
 - ER
 - Nursing Unit
 - Pharmacy
- b) Current Visit Location
- c) Order Date From
- d) Order Date To

STEP 3

Click on Search button  to search patient

Note

User can dispense medication by:

- a) Individual Order
- b) Multiple Patient Order

STEP 4

Click on the selected patient record and 'CDR Dispensing' screen will be displayed as Figure 5.0-3

CDR DISPENSING

Prescription ✕



Mykad: XXXXXXXXXX Age: 31 Years 02 Months 27 Days Gender: Male MRN: HKLM00198332

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

Height: 172 cm Weight: 78 kg BMI/BSA: 26.4 / 1.93 m² (Last Updated: 25/07/2019) Nationality: Warganegara

Upload Photo

[Lab Parameter](#) | [Counselling History](#) | [Demographic](#) | [Pharmacist Notes](#) | [Medication Profile](#) | [Other Appointment](#)

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: XXXXXXXXXX Cycle Start Date: 25/07/2019
 Original Prescription Serial No: CDR1003

COLLECTION DETAILS

Dispensed To: XXXXXXXXXX

Dispensed At: Pharmacy Counter

Dispensed Date and Time: 25/07/2019 13:30:07

Collected By: XXXXXXXXXX

Remarks: XXXXXXXXXX

CDR Cycle History Release/Discard Label Dispense

< < 1 / 1 > >
[1 - 3 / 3]

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status	Completed
▼	Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m2, OD (once daily), Day: 2,3,4,5 Schedule	8 vial	0 of 4 dose(s) supplied	8 vial	8 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	PREPARED	<input type="checkbox"/>
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		8 bott		8 bott	8 bott			0 bott			
▼	Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m2, OD (once daily), Day: 1 Schedule	4 vial	0 of 1 dose(s) supplied	4 vial	4 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	PREPARED	<input type="checkbox"/>
	Sodium Chloride 0.9% 500mL IV soln		1000 ml		2 bott		2 bott	2 bott			0 bott			
▼	Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	PREPARED	<input type="checkbox"/>
	Sodium Chloride 0.9% 250mL IV soln		250 ml		1 bott		1 bott	1 bott			0 bott			

Figure 5.0-3 CDR Dispensing

STEP 5

Click on the Dispense button to dispense the medication

CONFIRMATION


CONF0064: Do you want to dispense now?

Cancel
Yes
No

Figure 5.0-4 Confirmation Alert Message

Force Close for Selected Drug:

CDR DISPENSING

Prescription X

	Mykad	Age 31 Years 02 Months 27 Days	Gender Male	MRN HKLM00198332
Address	Phone And Email	Diagnosis	No known Allergies	
Height 172 cm	Weight 78 kg	BMI/BSA 26.4 / 1.93 m ² (Last Updated : 25/07/2019) Nationality : Warganegara		

[Lab Parameter](#) | [Counselling History](#) | [Demographic](#) | [Pharmacist Notes](#) | [Medication Profile](#) | [Other Appointment](#)

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: Cycle Start Date: 25/07/2019
 Original Prescription Serial No: CDR1003

COLLECTION DETAILS

Dispensed To	Dispensed Date and Time	25/07/2019 13:30:07	Remarks
Dispensed At	Collected By		

PRESCRIPTION

CDR Cycle History Release/Discard Label Dispense

Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status	Completed
Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m2, OD (once daily), Day: 2,3,4,5 Schedule	8 vial	0 of 4 dose(s) supplied	8 vial	8 vial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	PREPARED	<input checked="" type="checkbox"/> 6
Sodium Chloride 0.9% 500mL IV soln	193 mg	1000 ml	100 mg/m2, OD (once daily), Day: 1 Schedule	8 bott	0 of 1 dose(s) supplied	8 bott	8 bott	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks	PREPARED	<input type="checkbox"/>
Cisplatin 50mg/50ml Injection	193 mg	193 ml	75 mg/m2, OD (once daily), Day: 1 Schedule	4 vial	0 of 1 dose(s) supplied	4 vial	4 vial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	PREPARED	<input type="checkbox"/>
Sodium Chloride 0.9% 500mL IV soln	144.75 mg	1000 ml		2 bott		2 bott	2 bott	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks	PREPARED	<input type="checkbox"/>
Docetaxel 80mg Injection	144.75 mg	14.47 ml		2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 vial	Remarks	PREPARED	<input type="checkbox"/>
Sodium Chloride 0.9% 250mL IV soln		250 ml		1 bott		1 bott	1 bott	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0 bott	Remarks	PREPARED	<input type="checkbox"/>

Figure 5.0-5 CDR Dispensing

STEP 6

Click on the Complete check box

Note

- Dispensing remarks is mandatory to force close the order.
- Alert message will be display as Figure 5.0-6

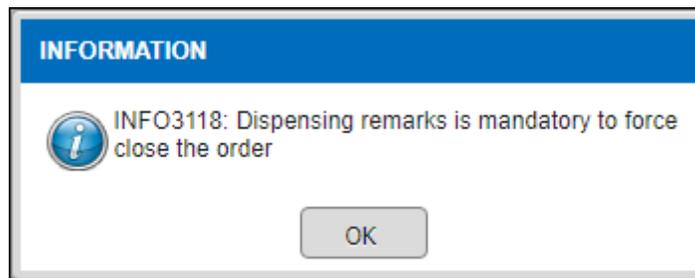


Figure 5.0-6 Information Alert Message

- Click on the button and Pharmacist Remarks window will be displayed as Figure 5.0-7.

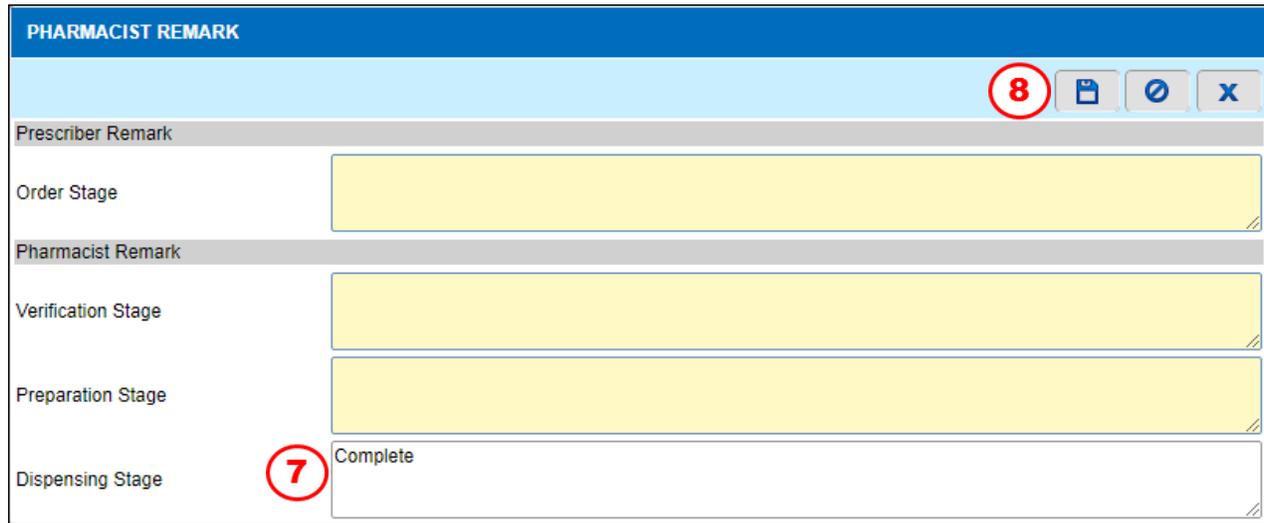


Figure 5.0-7 Pharmacist Remark

STEP 7

Enter **Dispensing Stage** remark

STEP 8

Click on the button to save the record and alert message will be displayed as Figure 5.0-8

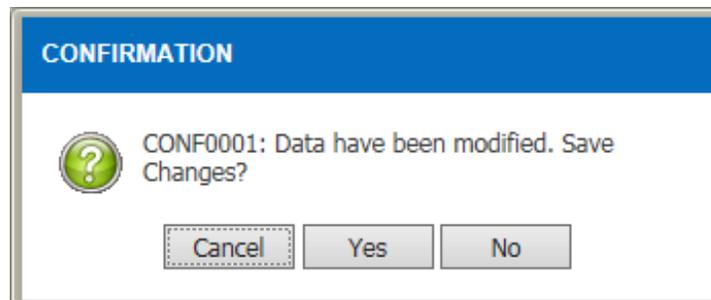


Figure 5.0-8 Confirmation Alert Message

Note

- Click on the button to confirm the saved record.
- Click on the button to cancel the saved record.



Release/Discard :

CDR DISPENSING

Prescription X

	Mykad	Age 31 Years 02 Months 27 Days	Gender Male	MRN HKLM00198332
Address	Phone And Email	Diagnosis	No known Allergies	
Height 172 cm Weight 78 kg BMI/BSA 26.4 / 1.93 m ² (Last Updated : 25/07/2019) Nationality : Warganegara				

[Upload Photo](#)

[Lab Parameter](#) | [Counseling History](#) | [Demographic](#) | [Pharmacist Notes](#) | [Medication Profile](#) | [Other Appointment](#)

Encounter No: 0002 Actual Visit Date: 25/07/2019 Current Visit Location: Farmasi Cytotoxic Drug Reconstitution Rx No: CDR0000403138 Order By: Cycle Start Date: 25/07/2019
 Original Prescription Serial No: CDR1003

COLLECTION DETAILS

Dispensed To	Dispensed Date and Time	25/07/2019 13:30:07	Remarks
Dispensed At	Collected By		

PRESCRIPTION

CDR Cycle History Release/Discard Label Dispense

[1 - 3 / 3]

Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Outsource	Prev Disp Qty	Remarks	Status	Completed
Fluorouracil 1g/20ml Injection	1930 mg	38.6 ml	1000 mg/m ² , OD (once daily), Day: 2,3,4,5 Schedule	8 vial	0 of 4 dose(s) supplied	8 vial	0	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	PREPARED	<input checked="" type="checkbox"/>
Sodium Chloride 0.9% 500mL IV soln		1000 ml		8 bott		8 bott	0			0 bott			
Cisplatin 50mg/50ml Injection	193 mg	193 ml	100 mg/m ² , OD (once daily), Day: 1 Schedule	4 vial	0 of 1 dose(s) supplied	4 vial	4 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	PREPARED	<input type="checkbox"/>
Sodium Chloride 0.9% 500mL IV soln		1000 ml		2 bott		2 bott	2 bott			0 bott			
Docetaxel 80mg Injection	144.75 mg	14.47 ml	75 mg/m ² , OD (once daily), Day: 1 Schedule	2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	PREPARED	<input type="checkbox"/>
Sodium Chloride 0.9% 250mL IV soln		250 ml		1 bott		1 bott	1 bott			0 bott			

Figure 5.0-9 CDR Dispensing

Note

Click on the button and screen will display as per Figure 5.0-10.

RELEASE/DISCARD BATCH

Release Discard X

MRN	Patient Name	UNIT FARMASI REKONSTITUSI UBAT SITOTOKSIK
Drug Name	Dispense Location	

New Record(s)

[1 - 2 / 2]

Select	MRN	Patient Name	Drug Name	Medication Order No	Preparation Date	Prepared Qty	Status	Reason for Release/Discard
<input type="checkbox"/>	HPSF00000008	NUR DAMIA BT MOHD HANAFI	Docetaxel 80mg Inj Sodium Chloride 0.9% 250mL IV soln	CDR0000002038	01/07/2014	2 vial 1 bott	PREPARED	
<input type="checkbox"/>	HPSF00019418	EN BORHAN	Docetaxel 80mg Inj Sodium Chloride 0.9% 250mL IV soln	CDR0000002021	01/07/2014	2 vial 1 bott	PREPARED	

Figure 5.0-10 Release/Discard Batch

Note

Release/Discard Batch screen consist of two (2) function:

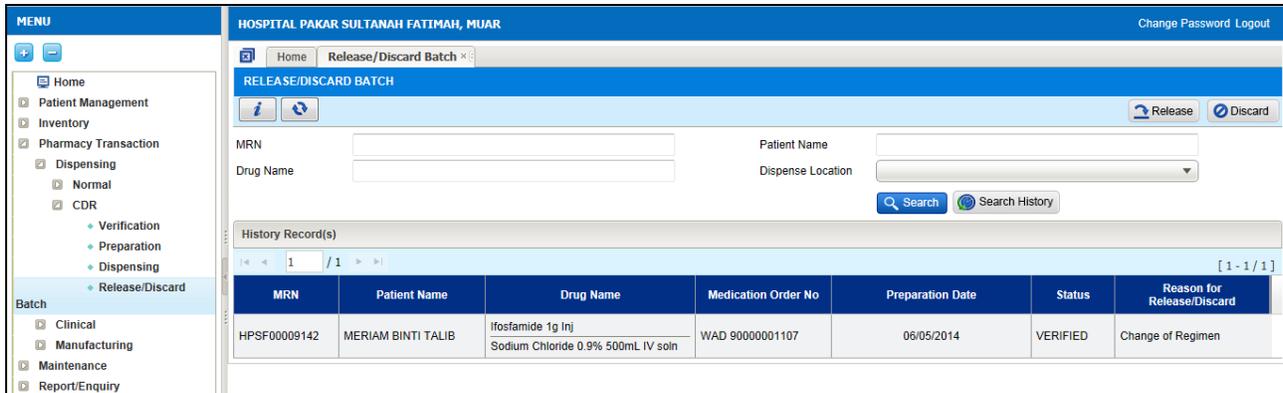
- a) **Release**
 - To return the allocated quantity of the CDR Preparation back into inventory.
- b) **Discard**
 - To dispose the CDR product that has been prepared.

PB_U. MANUAL_CDR-9th E

Page 41

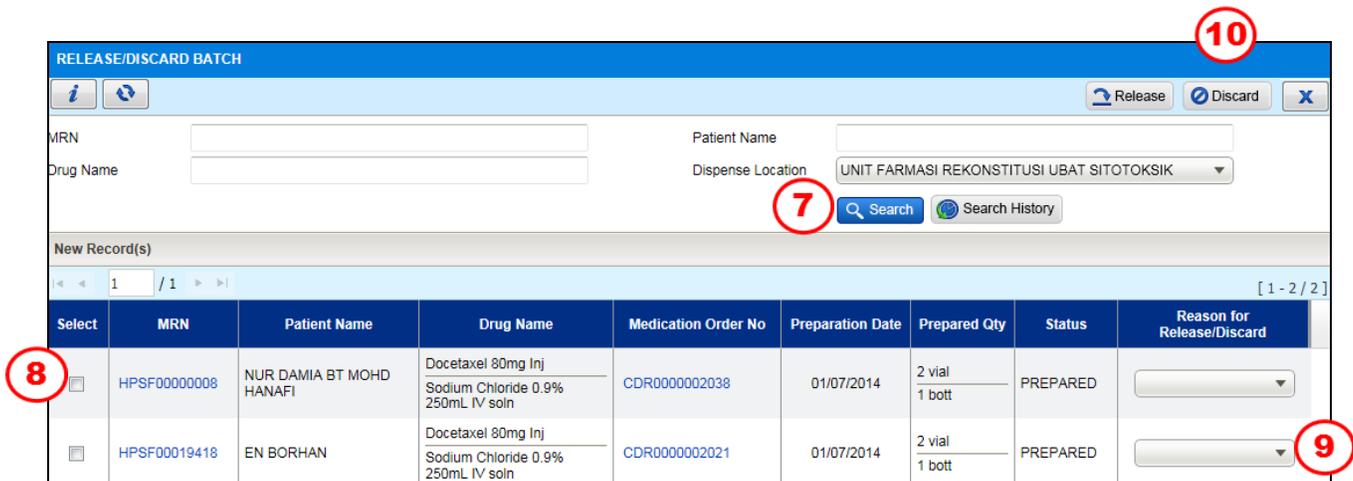
- Various search criteria is provided as below:
 - MRN
 - Patient Name
 - Drug Name
 - Dispense Location

- Click on the  button to view release/discard history as Figure 5.0-11.



MRN	Patient Name	Drug Name	Medication Order No	Preparation Date	Status	Reason for Release/Discard
HPSF00009142	MERIAM BINTI TALIB	Ifosfamide 1g Inj Sodium Chloride 0.9% 500mL IV soln	WAD 90000001107	06/05/2014	VERIFIED	Change of Regimen

Figure 5.0-11 Release/Discard Batch History



Select	MRN	Patient Name	Drug Name	Medication Order No	Preparation Date	Prepared Qty	Status	Reason for Release/Discard
<input type="checkbox"/>	HPSF00000008	NUR DAMIA BT MOHD HANAFI	Docetaxel 80mg Inj Sodium Chloride 0.9% 250mL IV soln	CDR0000002038	01/07/2014	2 vial 1 bott	PREPARED	
<input type="checkbox"/>	HPSF00019418	EN BORHAN	Docetaxel 80mg Inj Sodium Chloride 0.9% 250mL IV soln	CDR0000002021	01/07/2014	2 vial 1 bott	PREPARED	

Figure 5.0-12 Release/Discard Batch

STEP 7

Click on the  button

STEP 8

Click on the selected patient **Select** checkbox

STEP 9

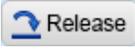
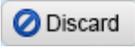
Select *Reason for Release/Discard* from dropdown box

- Change of Regimen
- Faulty Product
- Intervention



- Patient Refused
- Uncollected
- Wrong Allocation

STEP 10

Click on the  button to proceed release or Click on the  button to proceed discard



6.0 Acronyms

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

7.0 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	Radiopharmaceuticals	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		