



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

Pharmacy Based

User Manual Cytotoxic Drug Reconstitution (CDR)

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1.4	Michelle Foo / Juridah Ayob (QA)	Change to latest update and screenshot version 1.4.1
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PhIS & CPS Project
User Manual – Order Management - Cytotoxic Drug Reconstitution
(CDR)



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



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1.0 Introduction

1.1 Overview of PhIS

Pharmacy Information System or better known as PhIS, is a complete and comprehensive system that integrates pharmacy related services 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:

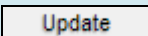


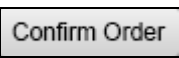
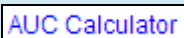
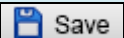
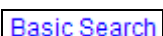
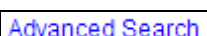
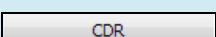
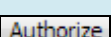

- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : Cytotoxic Drug Reconstitution
- Section 4 : Acronyms
- Section 5 : Links to Clinical Modules

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		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

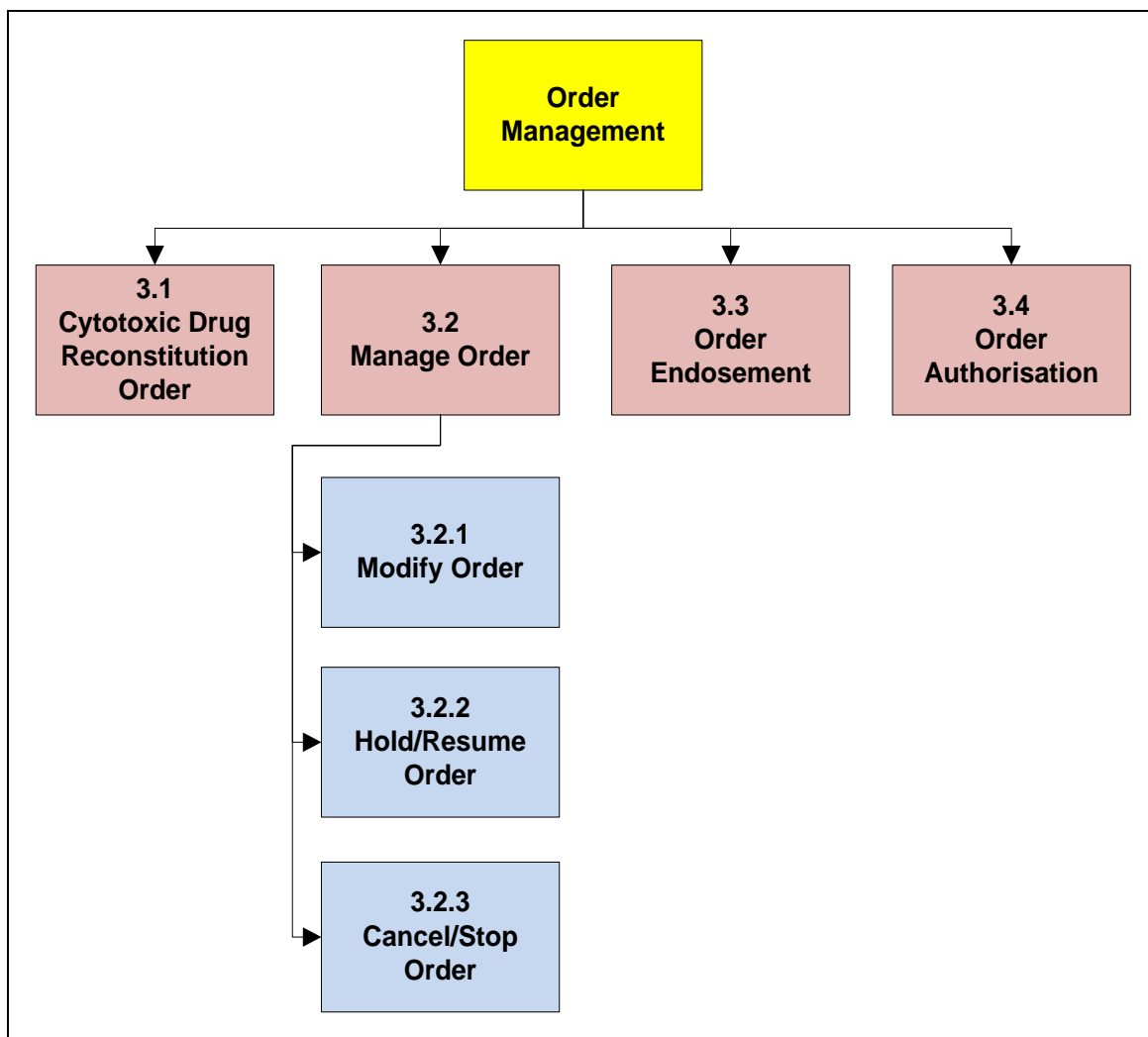


Figure 3.0

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.

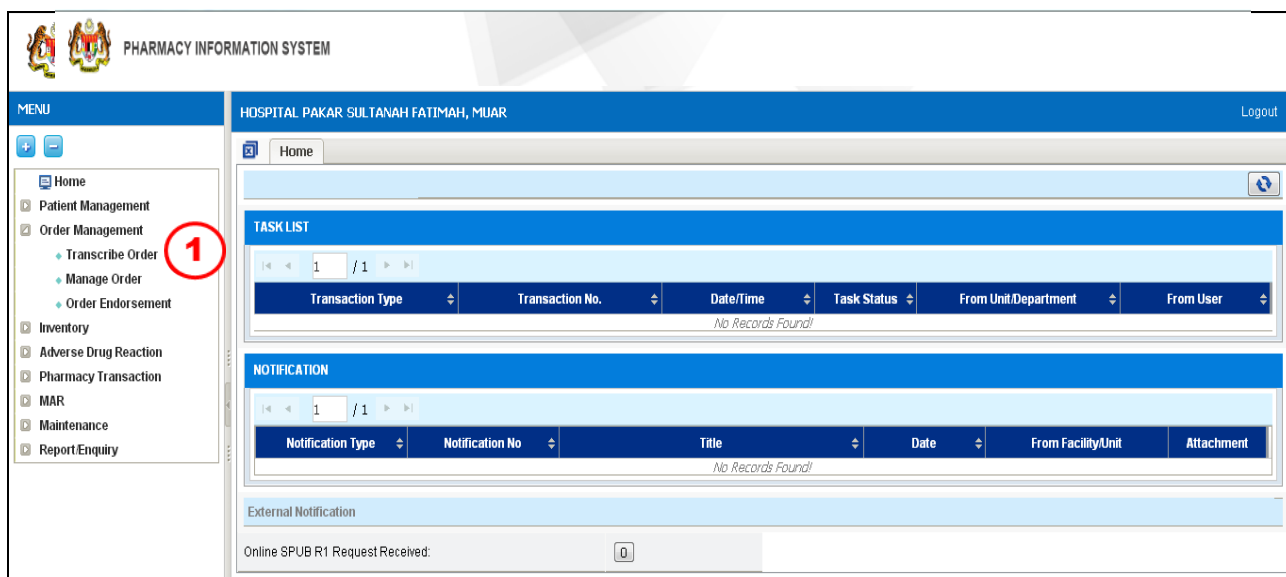


Figure 3.1-1 PhIS Home Page

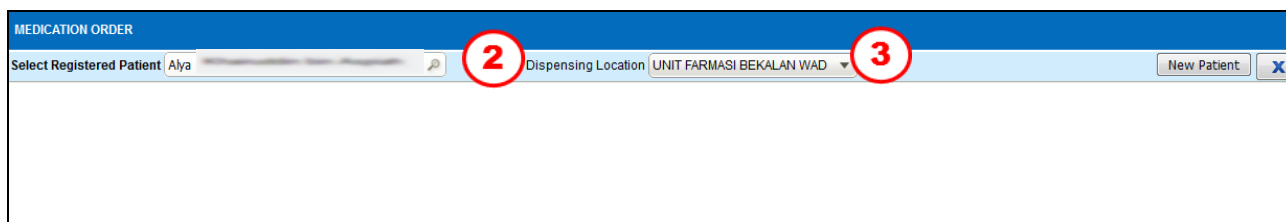


Figure 3.1-2 Medication Order

This page is used to search for a registered patient


STEP 1

Click on 'Order Management' menu followed by 'Transcribe Order' 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.

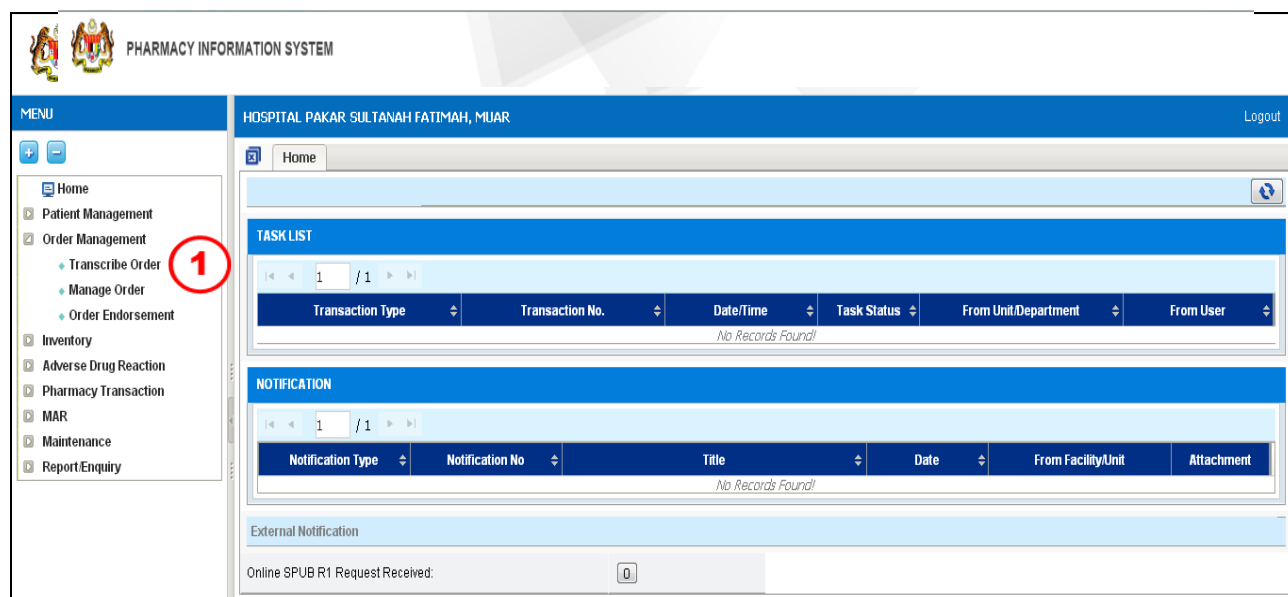


Figure 3.2-1 PhIS Home Page

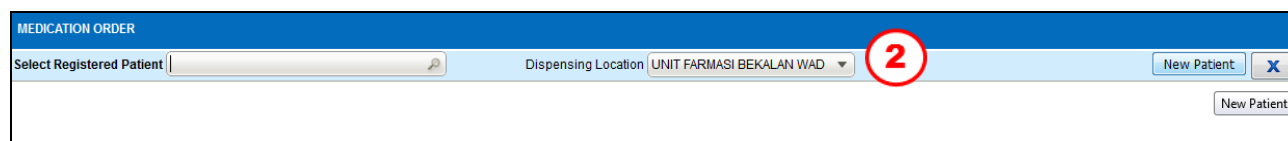


Figure 3.2-2 Transcribe Order Create New Patient

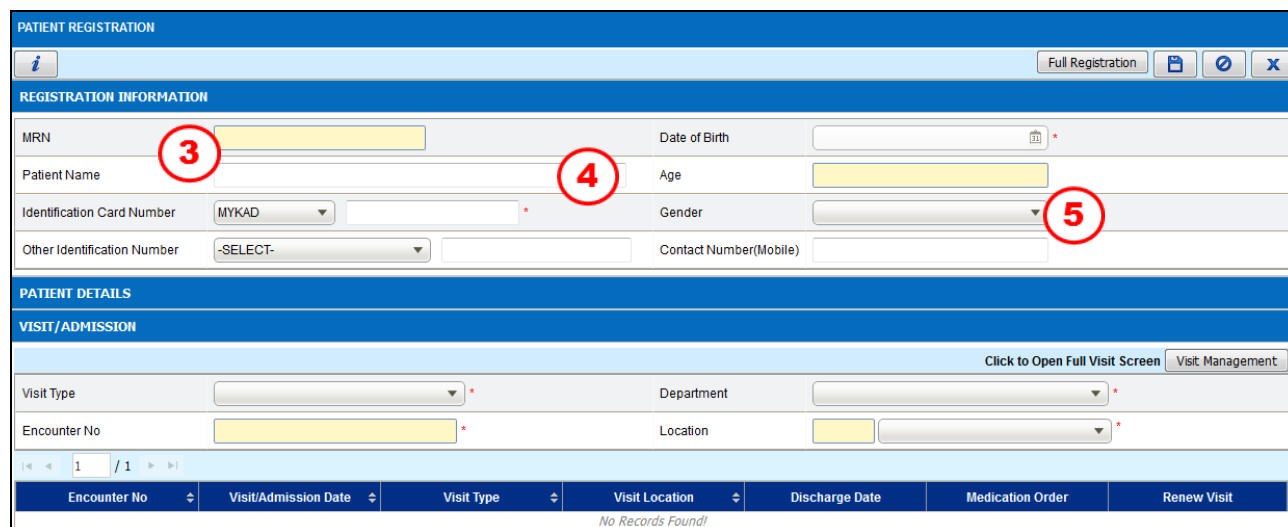
This page is used to register new patient

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



The screenshot shows the 'PATIENT REGISTRATION' form. It has a blue header bar with the title and a 'Full Registration' button. Below the header is the 'REGISTRATION INFORMATION' section, which contains fields for MRN (callout 3), Patient Name (callout 4), Identification Card Number (dropdown menu with 'MYKAD' selected, callout 4), Other Identification Number (dropdown menu with '-SELECT-' selected), Date of Birth, Age, Gender (callout 5), and Contact Number(Mobile). Below this is the 'PATIENT DETAILS' section, followed by the 'VISIT/ADMISSION' section. The 'VISIT/ADMISSION' section includes fields for Visit Type, Department, Encounter No, and Location. At the bottom, there is a table with columns: Encounter No, Visit/Admission Date, Visit Type, Visit Location, Discharge Date, Medication Order, and Renew Visit. A 'No Records Found!' message is displayed below the table.

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
 - Military Card Number
 - Mother IC
 - Old IC
 - Passport
 - Pension Card
 - Police Card Number
 - Unkown Patient
 - Work Permit

and enter the relevant number.

STEP 5

Enter **Contact Number (Mobile)**

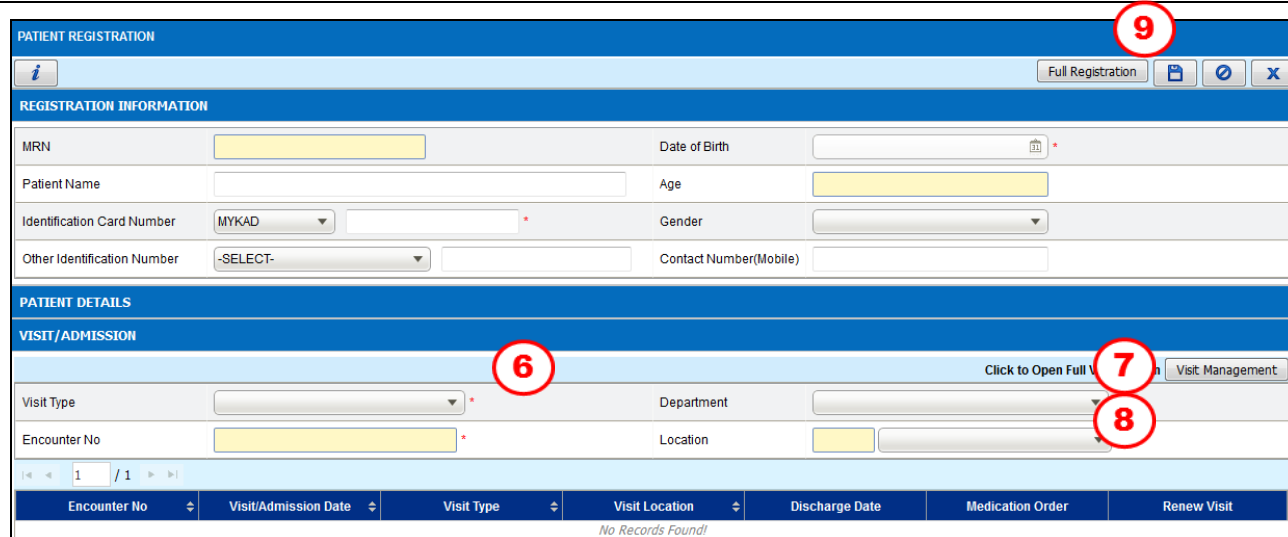


Figure 3.2-4 Visit/Admission

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 **Full Registration** to assess 'Visit Management' Screen. (Refer to Appendix 2).
- Another option to register a new patient is to click on the **New Patient Registration** button located under Patient Quick Registration that will display the same screen as Figure 3.2-3.

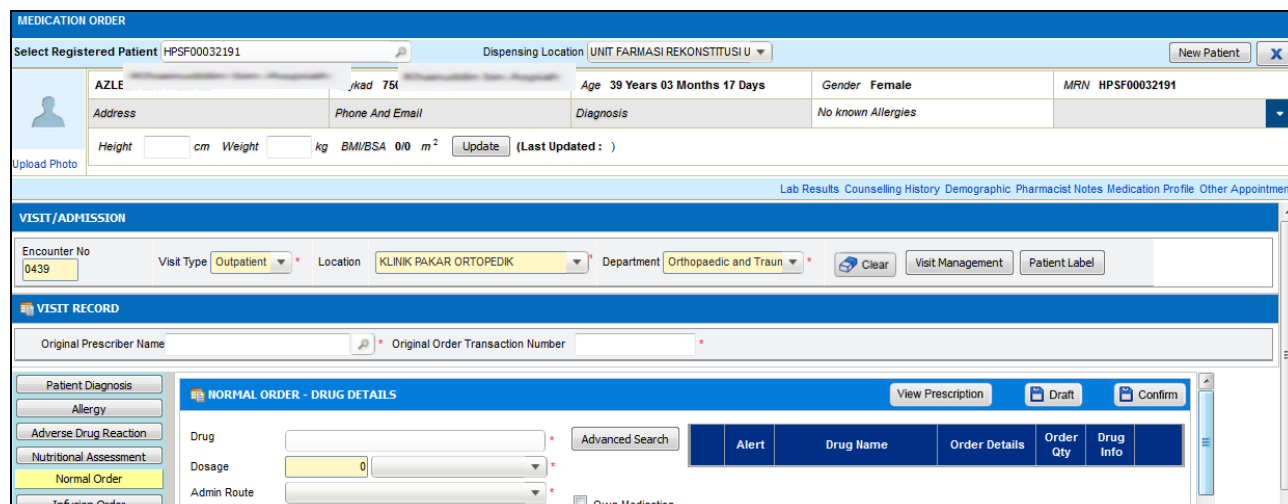


Figure 3.2-5 Medication Order

- Another option to register a new patient is to click on the **New Patient Registration** button located under Patient Quick Registration that will display the same screen as Figure 3.2-3

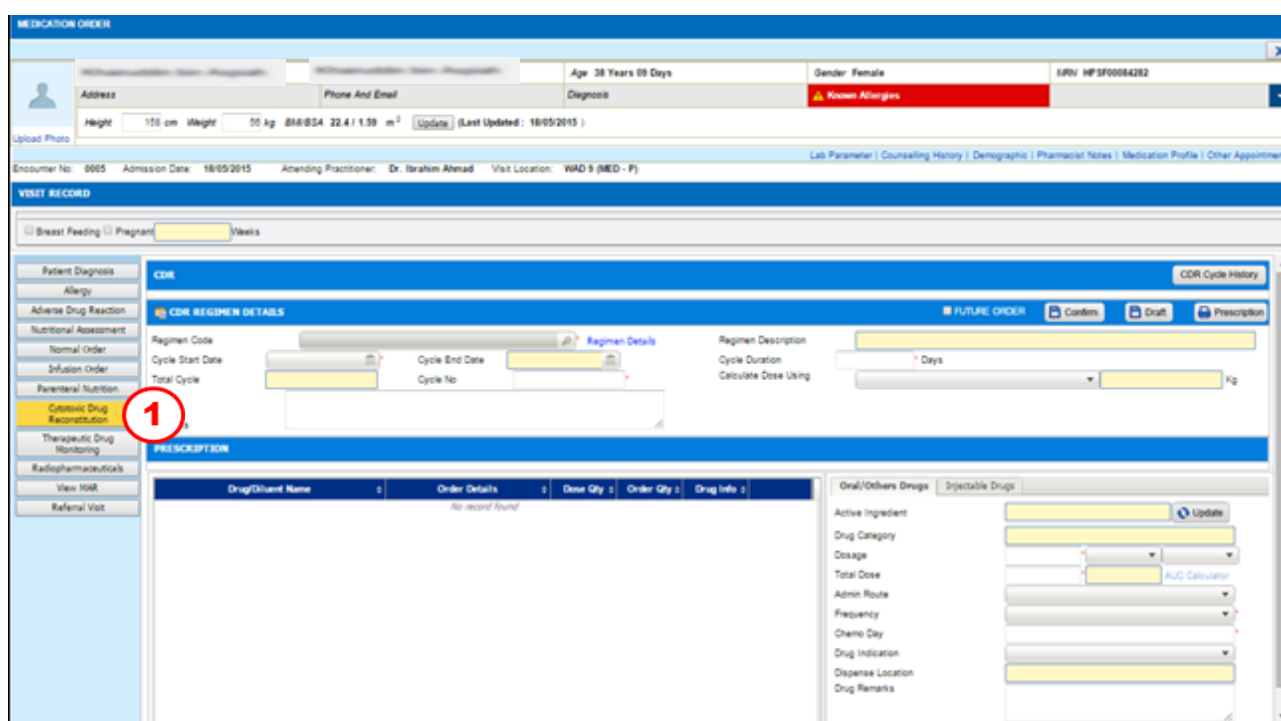
4.0 Cytotoxic Drug Reconstitution (CDR) Order, Verify and Prepare

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' screen. The top section contains patient information: Name, Address, Phone And Email, Age (38 Years 09 Days), Gender (Female), and I/PIN (HP3F0084282). Below this is the 'VISIT RECORD' section with a 'Patient Diagnosis' dropdown and a 'CDR' button. The 'CDR REGIMEN DETAILS' section includes fields for Regimen Code, Cycle Start Date, Cycle End Date, Cycle No, Regimen Description, Cycle Duration, and Calculate Dose Using. The 'PRESCRIPTION' section features a table with columns: Drug/Diluent Name, Order Details, Dose Qty, Order Qty, and Drug Info. To the right of the table are fields for Active Ingredient, Drug Category, Dosage, Total Dose, Admin Route, Frequency, Chemo Day, Drug Indication, Dispense Location, and Drug Remarks.

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

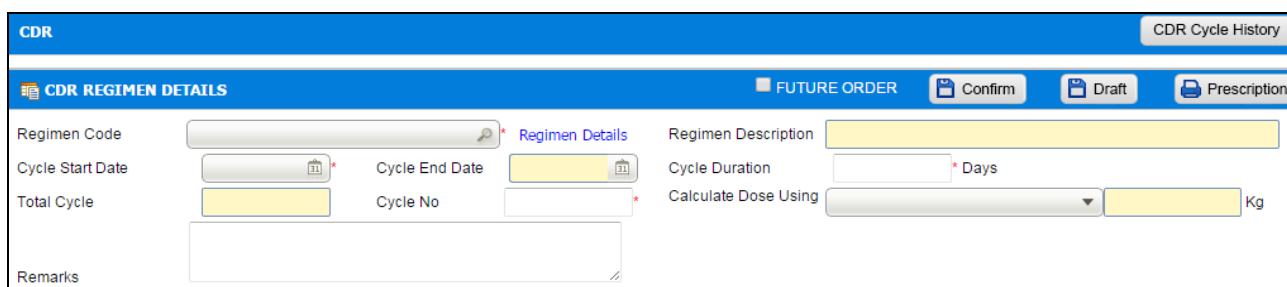
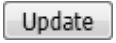


Figure 4.0-2 CDR Regimen Details

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 m^2 .

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

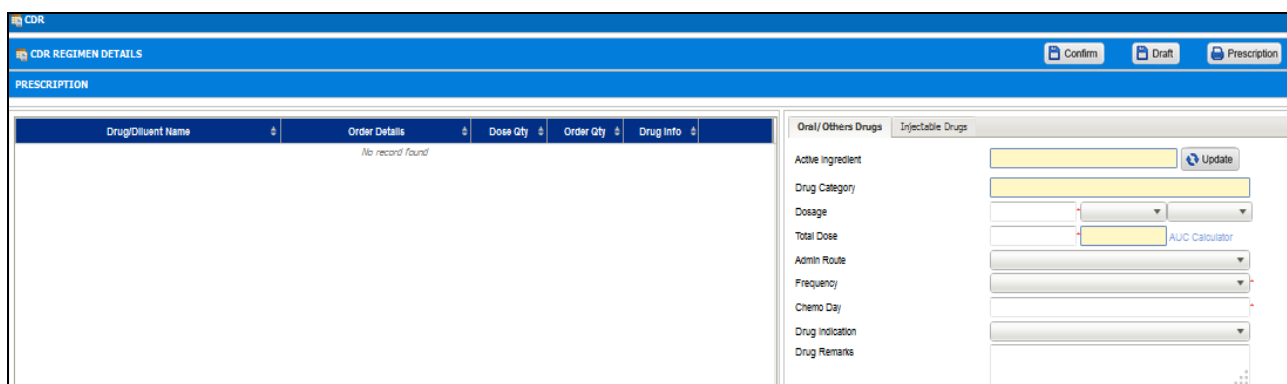


Figure 4.0-3 Prescription – Oral/Other Drugs

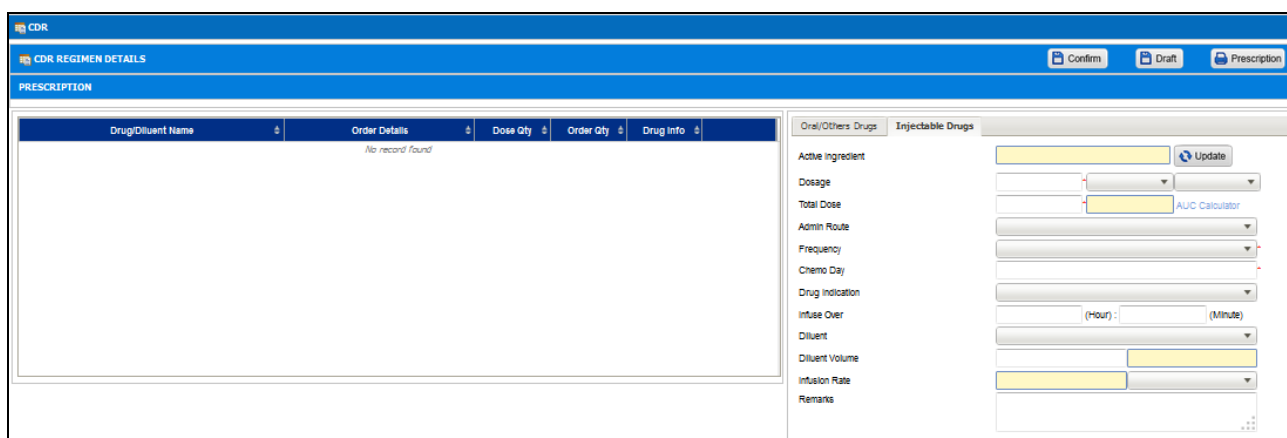
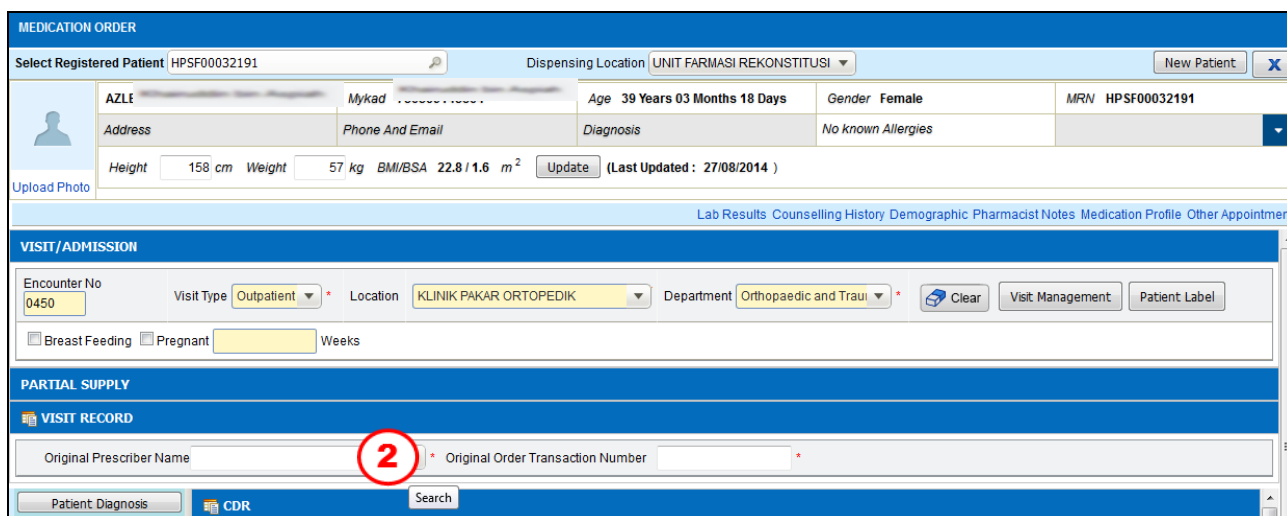


Figure 4.0-4 Prescription – Injectable Drugs

Prescriptions

- Prescriptions consists of:
 - Oral/Other Drugs
 - Injectable Drugs
 - Drug/Diluents' Name
 - Order Details
 - Dose Qty (Quantity)
 - Order Qty (Quantity)
 - Drug Info (Information)
- Oral/Other Drugs:
 - Active Ingredient
 - Dosage
 - Total Dose
 - Frequency
 - Chemo Day
 - Drug Remarks
 - Drug Category
 - Admin Route
 - Drug Indication
 - Dispense Location

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



MEDICATION ORDER

Select Registered Patient: HPSF00032191 | Dispensing Location: UNIT FARMASI REKONSTITUSI | New Patient: X

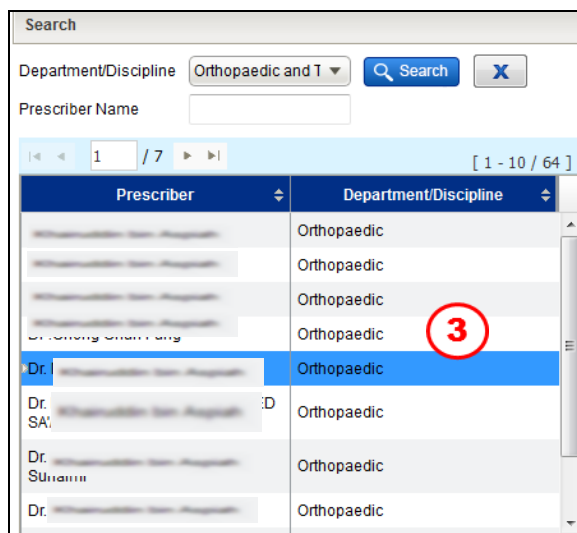
Patient Information:
 AZLE | Mykad: | Age: 39 Years 03 Months 18 Days | Gender: Female | MRN: HPSF00032191
 Address: | Phone And Email: | Diagnosis: | No known Allergies
 Height: 158 cm | Weight: 57 kg | BMI/BSA: 22.8 / 1.6 m² | Update (Last Updated: 27/08/2014)

VISIT/ADMISSION
 Encounter No: 0450 | Visit Type: Outpatient | Location: KLINIK PAKAR ORTOPEDIK | Department: Orthopaedic and Trau | Clear | Visit Management | Patient Label
☐ Breast Feeding ☐ Pregnant Weeks

PARTIAL SUPPLY

VISIT RECORD
 Original Prescriber Name: | **2** Original Order Transaction Number: |
 Patient Diagnosis: | CDR | Search

Figure 4.0-5 Prescription – Medication Order



Search

Department/Discipline: Orthopaedic and T | Search | X

Prescriber Name: |

1 / 7 | [1 - 10 / 64]

Prescriber	Department/Discipline
[Name]	Orthopaedic
[Name]	Orthopaedic
[Name]	Orthopaedic
[Name]	Orthopaedic
Dr. [Name]	Orthopaedic
Dr. [Name]	Orthopaedic
Dr. [Name]	Orthopaedic
Dr. [Name]	Orthopaedic
Dr. [Name]	Orthopaedic

3

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

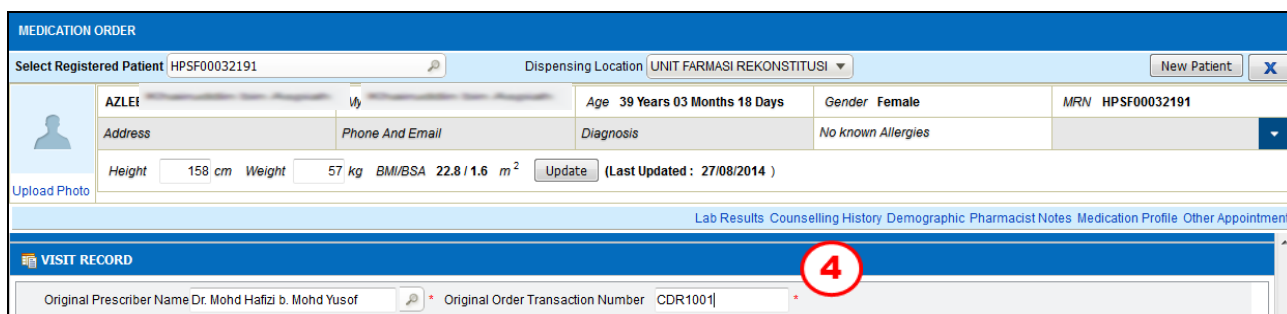


Figure 4.0-7 Medication Order

STEP 4

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

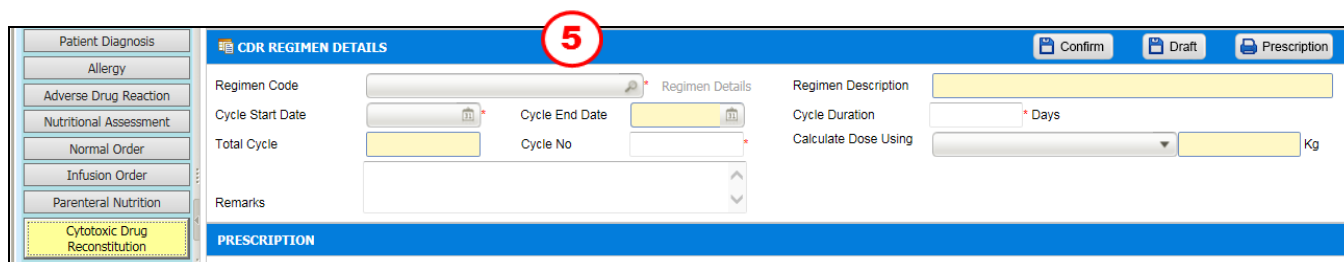


Figure 4.0-8 Medication Order

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) according to **Calculate Dosage Using** selected. It will give effect on **Total Dose** if user selects Dosage by per kg.
- Click on the [Regimen Details](#) hyperlink to display regimen details as per Figure 4.0-11.

Search Regimen			
Regimen Category	<input type="text"/>		X
Regimen Type	<input type="text"/>		
Regimen Code	<input type="text"/>		
Regimen Description	<input type="text"/>		Q
<div> <div>1 / 15</div> <div>[1 - 10 / 150]</div> </div>			
Regimen Code	Regimen Description	Regimen Type	Regimen Category
CDRON00003	Cisplatin	Head & Neck	Oncology
CDRON00005	MTX	Head & Neck	Oncology
CDRON00006	Carbo+5FU+FA	Head & Neck	Oncology
CDRON00007	Cisplatin (CCRT)	Nasopharynx (NPC)	Oncology
CDRON00008	Weekly Cisplatin	Nasopharynx (NPC)	Oncology
CDRON00004	Cisplatin+5FU+Docetaxel	Head & Neck	Oncology
CDRON00002	Cisplatin+5FU	Head & Neck	Oncology
CDRON00095	Cisplatin+MTX	Cervix	Oncology
CDRON00009	Weekly Carboplatin	Nasopharynx (NPC)	Oncology

Figure 4.0-9 Search Regimen

CDR				CDR Cycle History	
CDR REGIMEN DETAILS					
Regimen Code		CDRON00056		Regimen Details	
Cycle Start Date		28/09/2017		Cycle End Date 18/10/2017	
Total Cycle		6		Cycle No 1	
Remarks					
PRESCRIPTION					
Regimen Description		5FU 425mg/m2 + FA 20mg/m2, 5days			
Cycle Duration		21 * Days			
Calculate Dose Using		<input type="text"/> Kg			
<div> <div>Confirm</div> <div>Draft</div> <div>Prescription</div> </div>					

Figure 4.0-10 CDR Regimen Details

REGIMEN DETAILS									
Category	Hematology - NHL (Non-Hodgkin's)	Regimen Code	CDRHE00056	Regimen Description	CHOP				
Cycle Duration	21	Remarks							
Active Ingredient	Admin Route	Dosage	Frequency	Chemo day	Infuse Over	Diluent	Diluent Volume	Drug Remark	Status
Doxorubicin	Intravenous Slow Bolus	50 mg/m ²	OD (once daily)	1	0 Hours 0 Minutes				Active
Cyclophosphamide	Intravenous Slow Bolus	750 mg/m ²	OD (once daily)	1	0 Hours 0 Minutes				Active
Prednisolone	Oral	20 mg/m ²	TDS (3 times a day)	1-5	0 Hours 0 Minutes			Total dose: 60mg/m ² per day or 100mg/day in divided doses	Active
Vincristine	Intravenous Bolus	1.4 mg/m ²	OD (once daily)	1	0 Hours 15 Minutes	Sodium Chloride 0.9% 100mL IV soln		Maximum dose: 2MG Run fast	Active

Figure 4.0-11 Regimen Details

PRESCRIPTION						
Drug/Diluent	Dosage	Frequency	Chemo Day	Infuse Over	Diluent	Diluent Volume
Doxorubicin HCl 50mg/25ml Injection	50 mg/m ² , OD (once daily), Day: 1 Schedule	44 ml	2 vial			
Cyclophosphamide 1g/50ml Injection	750 mg/m ² , OD (once daily), Day: 1 Schedule	66 ml	2 vial			
Vincristine Sulphate 1mg Injection	1.4 mg/m ² , OD (once daily), Day: 1 Schedule	2.46 ml	3 vial			
Sodium Chloride 0.9% 100mL IV soln		100 ml	1 bott			
Prednisolone 5 mg Tablet	20 mg/m ² , TDS (3 times a day), Day: 1-5 Schedule	7.04 tablet	106 tablet			

Oral/Other Drugs **Injectable Drugs**

Active Ingredient:

Dosage: mg /m²

Total Dose: mg

Admin Route:

Frequency:

Chemo Day:

Drug Indication:

Infuse Over: (Hour) : (Minute)

Diluent:


Diluent Volume:

Figure 4.0-12 Prescription

DOSE SCHEDULE					
<div style="text-align: right;"> <input type="button" value="Print"/> <input type="button" value="X"/> </div>					
<div style="text-align: right;"> <input type="button" value="1"/> / 1 [1 - 1 / 1] </div>					
Chemo Day	Date	Total Dose	UOM	Time	Supplied
1	28/09/2017	88 mg		08:00	<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
- 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.

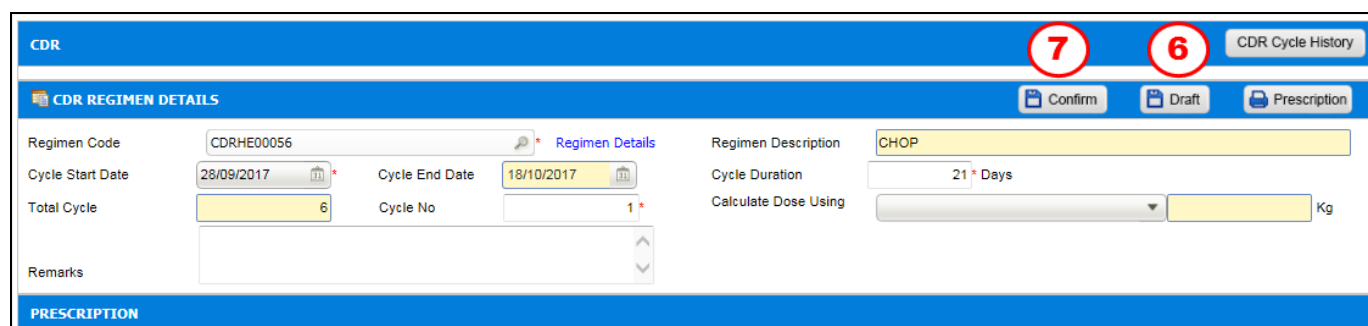


Figure 4.0-14 Draft Button

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

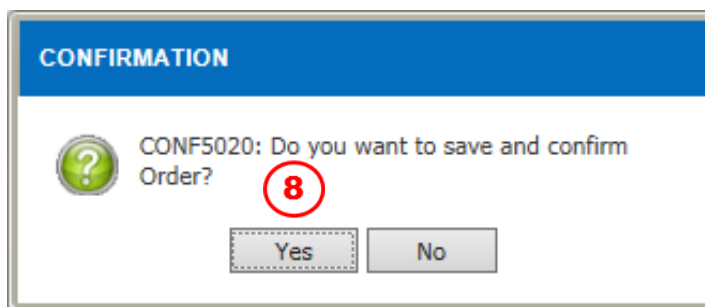



Figure 4.0-15 Confirmation



STEP 8

Click on the  button to confirm order and screen as per Figure 4.0-16 displayed

Note

The  button to print CDR Request Form as per Figure 4.0-16

Ministry of Health, Malaysia
Hospital Kulim
Cytotoxic Drug Reconstitution

Patient Name : SXXXXXX	Patient ID : 
Age : 60 Y 9 M 25 D	MRN : 
Gender : Male	Prescription # : W80000213442
Height/Weight/BSA : 170 cm / 65 kg / 1.78 m ²	Order Date/Time : 28/09/2017 11:42 AM
Allergy :	Location : Ward 8 - Medical (Male)

Diagnosis :	
Regimen Code : CDRHE00056	
Regimen Description : CHOP	
Cycle Start Date : 28/09/2017	

Route	Drug Name	Dosage	Total Dose	Diluent	Diluent Vol	Frequency	Chemo Day
ORAL	Prednisolone	20 mg/m ²	35.2 mg			TDS (3 times a day)	1-5
IVSB	Doxorubicin	50 mg/m ²	88 mg			OD (once daily)	1
IVSB	Cyclophosphamide	750 mg/m ²	1320 mg			OD (once daily)	1
IVB	Vincristine	1.4 mg/m ²	2.48 mg	Sodium Chloride 0.9% 100mL IV soln	100 ml	OD (once daily)	1


Prescribed By : 	
Designation : Pegawai Perubatan	
Department : Emergency and Trauma	

Figure 4.0-16 CDR Request Form

Note

CDR Request Form consists of:

- Patient's Details

- CDR Drug Prescriptions
- Prescriber Details

CDR Verification :

CDR

CDR REGIMEN DETAILS

Regimen Code

CDRHE00056

Regimen Details

Regimen Description

CHOP

Cycle Start Date

28/09/2017

Cycle End Date

18/10/2017

Cycle Duration

21 Days

Total Cycle

6

Cycle No

1

Calculate Dose Using

Kg

Remarks

PROCEED TO DISPENSE

Prescription

Verify

PRESCRIPTION

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	
	Vincristine Sulphate 1mg Injection	2.46 mg	2.46 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial	Remarks	ORDERED	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott			
	Doxorubicin HCl 50mg/25ml Injection	88 mg	44 ml	50 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	Remarks	ORDERED	Drug Info
	Cyclophosphamide 1g/50ml Injection	1320 mg	66 ml	750 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	Remarks	ORDERED	Drug Info
	Prednisolone 5 mg Tablet	35.2 mg	7.04 tablet	20 mg/m2, TDS (3 times a day), Day: 1 Schedule	106 tablet	Remarks	ORDERED	Drug Info

Figure 4.0-17 CDR Verification

DOSE SCHEDULE

1 / 1

[1 - 15 / 15]

Chemo Day	Date	Total Dose	UOM	Time	Supplied
1	28/09/2017	35.2	mg	08:00	<input type="checkbox"/>
				12:00	<input type="checkbox"/>
				20:00	<input type="checkbox"/>
2	29/09/2017	35.2	mg	08:00	<input type="checkbox"/>
				12:00	<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	
Prescriber Remark	
Order Stage	Run fast
Pharmacist Remark	
Verification Stage	proceed to verify
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	
vinCRISTine Sulphate 1mg Inj	
Contents	vincristine sulfate
Dosage	<p>Intravenous Acute lymphoblastic leukaemia, AIDS-related Kaposi's sarcoma, Hodgkins disease, Neuroblastoma, Small cell lung cancer, Wilms tumour, Brain tumours, Non-Hodgkin's lymphoma, Acute myeloid leukaemia</p> <p>Adult: Usual recommended dosage: 1.4-1.5 mg/m² once wkly. Max: 2 mg wkly. Subsequent doses may be modified based on clinical and haematological responses and tolerance of the patient. May be used in combination with other drugs. Prescribers should consult published protocols for the dosage, method and sequence of admin.</p> <p>Child: Usual recommended dosage: 1.5-2 mg/m² once wkly; for patients ≤10 kg: Initiate at 0.05 mg/kg once wkly. Subsequent doses may be modified based on clinical and haematological responses and tolerance of the patient. May be used in combination with other drugs. Prescribers should consult published protocols for the dosage, method and sequence of admin.</p> <p>Hepatic impairment: Dose adjustment may be needed. Serum bilirubin >3 mg/100ml: Reduce dose by 50%.</p> <p>Incompatibility: Any solution that may change pH of the solution beyond 3.5-5.5.</p>
Contraindications	Patients with demyelinating form of Charcot-Marie-Tooth syndrome. Pregnancy and lactation. Intrathecal admin (may be fatal). Patients receiving radiation therapy through ports which include liver.
Special precautions	Elderly. Preexisting pulmonary dysfunction or neuromuscular disease; leucopenia or a complicating infection; impaired liver function; obstructive jaundice. Routine prophylactic laxative needed to ensure regular bowel movement. Discontinue immediately if extravasation occurs, and inj any remaining drug into another vein, followed by local inj of hyaluronidase and topical heat application to the affected area to aid in drug removal and reduce discomfort. Discontinue in patients who develop progressive dyspnea. CBC to be checked before each dose admin. Frequent monitoring of uric acid during first 3-4 wk of treatment and watch out for uric acid nephropathy.
Adverse reactions	Dose limiting neurotoxicity (e.g. motor function impairment, gait abnormalities), hyperuricaemia, bronchospasm, azospermia, amenorrhoea, alopecia, leucopenia, urinary dysfunction, abdominal cramps, vomiting, diarrhoea, severe constipation, paralytic ileus, convulsions, hypertension, orthostatic hypotension, ptosis, hoarseness, optic neuropathies, hallucinations, blindness, neurological deafness, difficulty in walking, syndrome of inappropriate ADH secretion. Potentially Life-Threatening Adverse Drug Reaction: Myelosuppression.
Drug interactions	Decreased digoxin (tablets) and verapamil absorption with antineoplastic regimens. Increased etoposide serum levels with vincristine. Increased toxicity when ganciclovir given with, immediately before or after vincristine. Reduced vincristine metabolism with miconazole. Increased neurotoxicity with isoniazid, itraconazole, voriconazole, posaconazole and nifedipine. Decreased immune response when used concurrently with vaccines. Increased myelotoxicity with zidovudine. Increased risk of thromboembolic complications with tamoxifen. Increased risk of ototoxicity with ototoxic drugs (e.g. platinum-containing antineoplastic agents). Possible risk of earlier onset and/or increased severity of adverse effects with macrolides. Possible increase in vincristine levels with aprepitant. Possible decrease in antiepileptic levels with vincristine, monitor serum antiepileptic levels and effectiveness of chemotherapy. Potentially Hazardous Interaction: Increased risk of bronchospasm with mitomycin C. Reduced vincristine clearance and increased toxicity with

Figure 4.0-20 Drug Information

CDR
9

CDR REGIMEN DETAILS

PROCEED TO DISPENSE
Prescription
Verify

Regimen Code: [Regimen Details](#)
Cycle Start Date:
Total Cycle: Cycle No:

Regimen Description:
Cycle Duration: Days
Calculate Dose Using: Kg


Remarks:

PRESCRIPTION

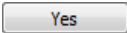
	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	
<input type="checkbox"/>	Vincristine Sulphate 1mg Injection	2.46 mg	2.46 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial	Remarks	ORDERED	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott			
<input type="checkbox"/>	Doxorubicin HCl 50mg/25ml Injection	88 mg	44 ml	50 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	Remarks	ORDERED	Drug Info
<input type="checkbox"/>	Cyclophosphamide 1g/50ml Injection	1320 mg	66 ml	750 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	Remarks	ORDERED	Drug Info
<input type="checkbox"/>	Prednisolone 5 mg Tablet	35.2 mg	7.04 tablet	20 mg/m2, TDS (3 times a day), Day: 1 -5 Schedule	106 tablet	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.

CONFIRMATION



CONF3264: Do you want to proceed with preparation?


Cancel

Yes

No

Figure 4.0-22 Confirmation Alert Message

CDR Preparation :



SXXXXXXX

Mykad

Age 60 Years 09 Months 25 Days

Gender Male

MRN HKLM00066880

Address

Phone And Email

Diagnosis

No known Allergies

Height 170 cm Weight 65 kg BMI/BSA 22.5 / 1.76 m² (Last Updated : 28/09/2017) Nationality : Warganegara

Upload Photo

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

Encounter No: 0017 Admission Date: 28/09/2017 Current Visit Location Ward 8 - Medical (Male) Rx No: W80000213442 Order By: Cycle Start Date: 28/09/2017 Transcribed By:

Original Prescriber: Original Prescription Serial No: RX879665438

PRESCRIPTION

Outsource CDR Cycle History Worksheet Label Prepare

1 / 1


[1 - 4 / 4]

	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
<input type="checkbox"/>	Vincristine Sulphate 1mg Injection	2.46 mg	2.46 ml 100 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial 1 bott	0 of 1 dose(s) supplied	0 vial 0 bott	3 vial 1 bott	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial 0 bott	Remarks	VERIFIED
<input type="checkbox"/>	Doxorubicin HCl 50mg/25ml Injection	88 mg	44 ml	50 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
<input type="checkbox"/>	Cyclophosphamide 1g/50ml Injection	1320 mg	66 ml	750 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
<input type="checkbox"/>	Prednisolone 5 mg Tablet	35.2 mg	7.04 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5 Schedule	106 tablet	0 of 15 dose(s) supplied	0 tablet	106 tablet	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 tablet	Remarks	VERIFIED

Figure 4.0-23 CDR Preparation

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 4.0-24.
- Select Intervention Reason ☒ checkbox.
- Enter Remarks.
- Select Intervention Status ☐ radio button. Pharmacist will select as Intervention Accepted after confirm status from prescriber.
- Modify order details if required.

INTERVENTION

History

PHARMACY REMARKS

1 / 1

[1 - 12 / 12]

	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"/>

MODIFY ORDER

Cycle Start Date

28/09/2017

Calculate Dose Using

Kg

Active Ingredient

Vincristine

Drug Name

Vincristine Sulphate 1mg Injection

Drug Category

A

Drug Indication

Antineoplastic, Vinca Alkaloids Analogues

Dosage Form

Parenteral Solution

Admin Route

Intravenous Bolus

Dosage

1.4 mg /m2

Total Dose

2.46 mg

AUC Calculator

Drug Volume

2.46 ml

Cycle End Date

18/10/2017

Cycle Duration

21 Days

Diluent

Sodium Chloride 0.9% 100mL IV soln

Diluent Volume

100 ml

Total Volume

102.46 ml

Frequency

OD (once daily)

Infuse Over

0 (hh) : 15 (mm)

Infusion Rate

400 ml/Hour

Chemo Day

1 Drug Schedule

Remarks

Maximum dose: 2MG
Run fast

Updated By




YEOH CHEN WYE

Updated Date


28/09/2017

Figure 4.0-24 Intervention

Note

- Click on the  button to save the record and alert message will be displayed as per Figure 4.0-25.
- 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 4.0-26.

CONFIRMATION



CONF0001: Data have been modified. Save Changes?

Cancel

Yes

No


Figure 4.0-25 Confirmation Alert Message

Hold CDR Order:

INTERVENTION REASON HISTORY LISTING			
<div> <div>1 / 1</div> <div>[1 - 2 / 2]</div> </div>			
Date Time	Intervention Reason	Remarks	Updated By
27/08/2014 04:12:32 PM	Others	wrong drug	Pharmacist CDR
27/08/2014 03:54:29 PM	Others	need approval from doctor	Pharmacist CDR

Figure 4.0-26 Intervention Reason History Listing

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 4.0-28.
- 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 4.0-29.

CDR PREPARATION

XXXXXXXXXX

Mykad

Age 60 Years 09 Months 25 Days

Gender Male

MRN HKLM00066880

Address

Phone And Email

Diagnosis

No known Allergies

Height 170 cm Weight 65 kg BMI/BSA 22.5 / 1.76 m² (Last Updated : 28/09/2017) Nationality : Warganegara

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

Encounter No: 0017 Admission Date: 28/09/2017 Current Visit Location Ward 8 - Medical (Male) Rx No: W80000213442 Order By: Cycle Start Date: 28/09/2017 Transcribed By:

Original Prescriber: Original Prescription Serial No: RX879665438

PRESCRIPTION

Outsource

CDR Cycle History

Worksheet

Label

Prepare

1 / 1

[1 - 4 / 4]

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
Vincristine Sulphate 1mg Injection	2.46 mg	2.46 ml	1.4 mg/m2, OD (once daily), Day: 1	3 vial	0 of 1 dose(s) supplied	0 vial	3 vial	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
Intervention	0.9% 100mL	100 ml	Schedule	1 bott		0 bott	1 bott	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED
Doxorubicin HCl 50mg/25ml Injection	88 mg	44 ml	50 mg/m2, 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
Schedule												
Cyclophosphamide 1g/50ml Injection	1320 mg	66 ml	750 mg/m2, 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
Schedule												
Prednisolone 5 mg Tablet	35.2 mg	7.04 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5	106 tablet	0 of 15 dose(s) supplied	0 tablet	106 tablet	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 tablet	Remarks	VERIFIED
Schedule												

Figure 4.0-27 Hold Order

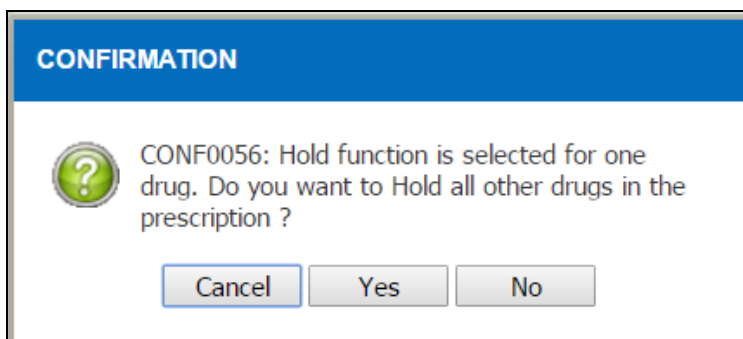
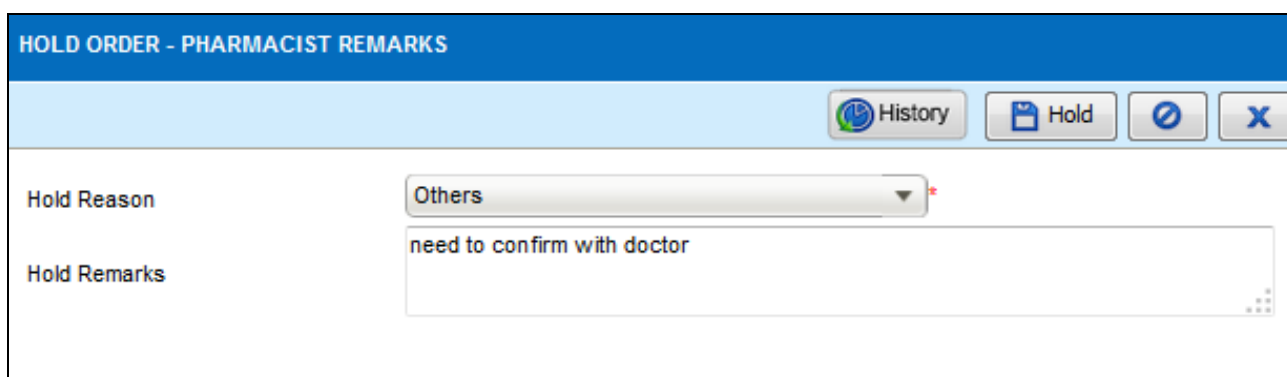


Figure 4.0-28 Confirmation Alert Message



A form titled 'HOLD ORDER - PHARMACIST REMARKS'. It has a blue header. Below the header are four buttons: 'History', 'Hold', a circular arrow icon, and a close 'X' icon. The form has two main sections: 'Hold Reason' with a dropdown menu currently showing 'Others', and 'Hold Remarks' with a text area containing the text 'need to confirm with doctor'.

Figure 4.0-29 Hold Order-Pharmacist Remarks

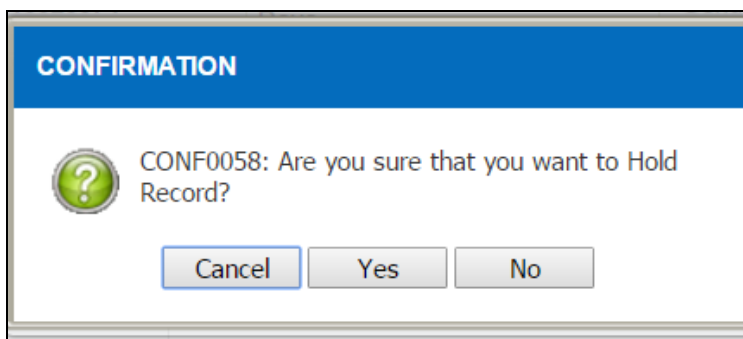

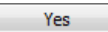


Figure 4.0-30 Confirmation Alert Message

Note

- Select **Hold Reason** from dropdown box
 - Authenticity
 - Contraindication
 - Drug Interaction
 - Inappropriate Dose
 - Inappropriate Drug
 - Inappropriate Duration
 - Inappropriate Frequency
 - Incompatibility
 - Others
 - 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 4.0-30
- Click on the  button to confirm the Hold Record.
- **Status** will change to Verified Hold.
-

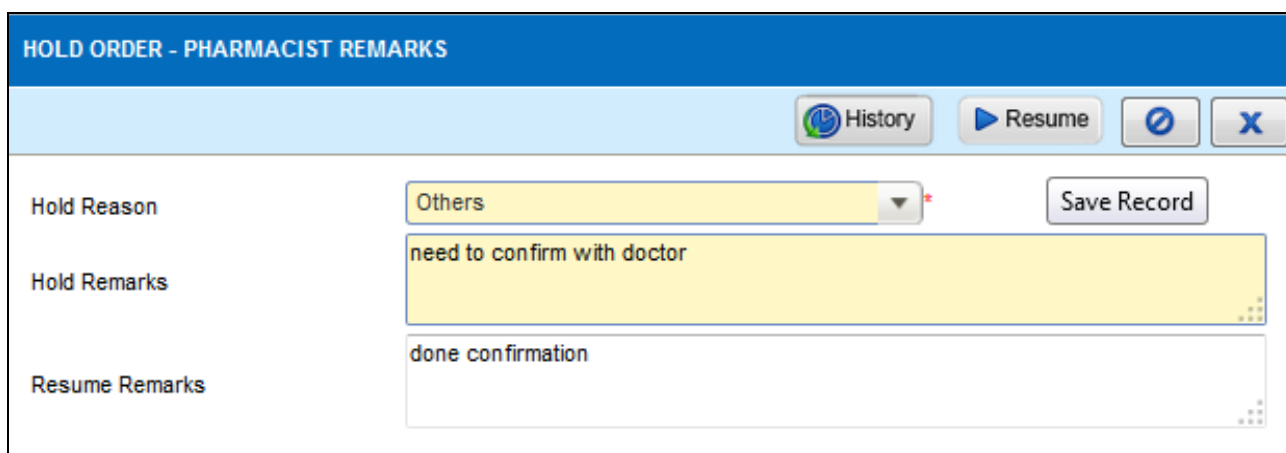


Figure 4.0-31 Hold Order-Pharmacist Remarks

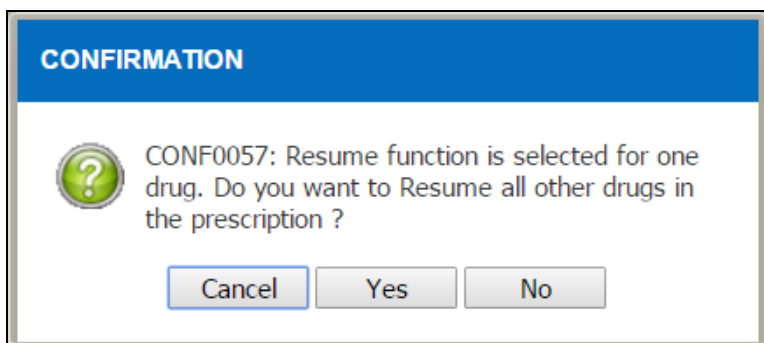
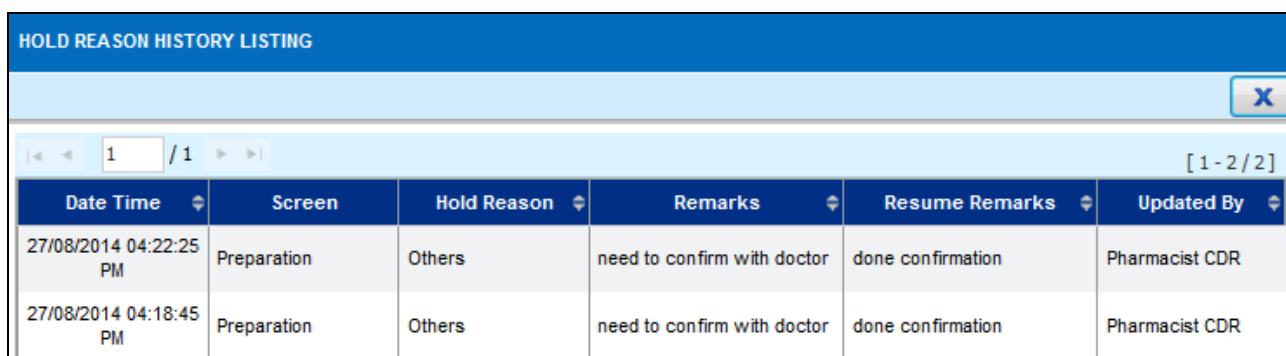


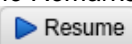
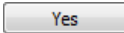

Figure 4.0-32 Confirmation Alert Message




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 4.0-33 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 4.0-32.
- 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 4.0-33.

CDR PREPARATION



SXXXXXXX

Address

Mykad

Phone And Email

Age 60 Years 09 Months 25 Days

Diagnosis

Gender Male

No known Allergies

MRN HKLM00066880

Height 170 cm

Weight 65 kg

BMI/BSA 22.5 / 1.76 m²

(Last Updated : 28/09/2017)

Nationality : Warganegara

Upload Photo

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

Encounter No: 0017

Admission Date: 28/09/2017

Current Visit Location Ward 8 - Medical (Male)

Rx No: W80000213442

Order By:


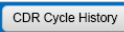



Cycle Start Date: 28/09/2017

Transcribed By:

Original Prescriber:

Original Prescription Serial No: RX879665438

PRESCRIPTION

1 / 1

10

[1 - 4 / 4]
















	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
	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial			0 vial	 Remarks	VERIFIED
	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	2 vial	0 of 1 dose(s) supplied	0 vial	2 vial			0 vial	 Remarks	VERIFIED
	Vincristine Sulphate 1mg Injection	2.06 mg	2.06 ml	1.4 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	3 vial	0 of 1 dose(s) supplied	0 vial	3 vial			0 vial	 Remarks	VERIFIED
	Sodium Chloride 0.9% 100mL IV soln	100 ml	100 ml		1 bott		0 bott	1 bott			0 bott	 Remarks	VERIFIED
	Prednisolone 5 mg Tablet	29.4 mg	5.88 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5 <i>Schedule</i>	89 tablet	0 of 15 dose(s) supplied	0 tablet	89 tablet			0 tablet	 Remarks	VERIFIED

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
L01CA02183P3001XX

Default SKU
vial

Drug Name
Vincristine Sulphate 1mg Injection

Dispense UOM
vial

Supply:
Day
Select Dose to Supply

Date From
To

BATCH DETAIL

1 / 1

Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
C057071AB	31/10/2017	2	0 vial	0
DO17077AB	30/04/2018	8	0 vial	0

Total Location Quantity
10
Total Allocated Quantity
0

Figure 4.0-34 Item Batch Details

STEP 11

Click on the [Select Dose to Supply](#) hyperlink and Dose Schedule window will be displayed as per Figure 4.0-35

DOSE SCHEDULE

13

1 / 1

[1 - 1 / 1]

Chemo Day	Date	Total Dose	UOM	Time	Supplied
1	02/10/2017	2.06 mg		08:00	12

Figure 4.0-35 Dose Schedule

STEP 12

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

STEP 13

Click on the  button to save the record

After saved, Item Batch Details Screen will display as shown in Figure 4.0-36.

ITEM BATCH DETAILS

14
[Save]
[X]

Drug Code:

Drug Name:

Supply: Day [Select Dose to Supply](#)

Default SKU:

Dispense UOM:

Date From: To:

BATCH DETAIL

|<< 1 / 1 >>|


Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
234CDR823	02/01/2021	2168	3 vial	<input type="text" value="3"/>

Total Location Quantity:


Total Allocated Quantity:

Figure 4.0-36 Item Batch Details

STEP 14

Click on the  button to save the allocation quantity and alert message will display as shown in Figure 4.0-37

CONFIRMATION





CONF0002: Are you sure you want to save?

Cancel
Yes
No

Figure 4.0-37 Confirmation Alert Message

Note

- Click on the  button to confirm the saved record.
- Click on the  button to cancel the saved record.
- Quantity allocation will be updated in the CDR Preparation screen as Figure 4.0-38.

CDR PREPARATION													
	SXXXXXX	mykad	Age 60 Years 09 Months 25 Days	Gender Male	MRN HKLM0006880								
	Address	Phone And Email	Diagnosis	No known Allergies									
Upload Photo	Height 170 cm Weight 65 kg BMI/BSA 22.5 / 1.76 m ² (Last Updated : 28/09/2017) Nationality : Warganegara												
Lab Parameter Counselling History Demographic Pharmacist Notes Medication Profile Other Appointment													
Encounter No: 0017 Admission Date: 28/09/2017 Current Visit Location Ward 8 - Medical (Male) Rx No: W80000213442 Order By: Cycle Start Date: 28/09/2017 Transcribed By:													
Original Prescriber: Original Prescription Serial No: RX879665438													
PRESCRIPTION													
Outsource CDR Cycle History Worksheet Label Prepare													
<div> < > 1 / 1 </div> <div style="float: right;">[1 - 4 / 4]</div>													
	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prep Admin	Outsource	Prev Disp Qty	Remarks	Status
	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 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	VERIFIED
	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 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	VERIFIED
	Vincristine Sulphate 1mg Injection	2.06 mg	2.06 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial	0 of 1 dose(s) supplied	3 vial	3 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 100mL IV soln		100 ml	Schedule	1 bott		1 bott	1 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED
	Prednisolone 5 mg Tablet	29.4 mg	5.88 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5 Schedule	89 tablet	0 of 15 dose(s) supplied	18 tablet	89 tablet		<input type="checkbox"/> Details	0 tablet	Remarks	VERIFIED

Figure 4.0-38 CDR Preparation

STEP 15

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

Note

- *Prepare Admixture Screen will saved 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 4.0-39.*

PREPARATION DETAILS	
<div> <div>Save</div> <div>Cancel</div> <div>Close</div> </div>	
Storage	<div> <input type="checkbox"/> Below 0 °C <input checked="" type="checkbox"/> Refrigerate (2 - 8 °C) <input type="checkbox"/> Room Temperature (< 25 °C) </div> <div>Save Record</div>
Reconstitution Fluid	-
Preparation Instruction	

Figure 4.0-39 CDR Preparation Details

CDR PREPARATION

XXXXXXXXX Mykad: [REDACTED] Age: 60 Years 09 Months 25 Days Gender: Male MRN: HKLM00066880

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

Height: 170 cm Weight: 65 kg BMI/BSA: 22.5 / 1.76 m² (Last Updated: 28/09/2017) Nationality: Warganegara

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

Encounter No: 0017 Admission Date: 28/09/2017 Current Visit Location: Ward 8 - Medical (Male) Rx No: W80000213442 Order By: [REDACTED] Cycle Start Date: 28/09/2017

Original Prescriber: [REDACTED] Original Prescription Serial No: RX879665438

PRESCRIPTION

Outsource CDR Cycle History Worksheet Label Prepare

16

	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
▼	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 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	VERIFIED
▼	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 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	VERIFIED
▼	Vincristine Sulphate 1mg Injection	2.06 mg	2.06 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial	0 of 1 dose(s) supplied	3 vial	3 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
▼	Sodium Chloride 0.9% 100mL IV soln	2.06 mg	100 ml	Schedule	1 bott	0 of 1 dose(s) supplied	1 bott	1 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED
▼	Prednisolone 5 mg Tablet	29.4 mg	5.88 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5 Schedule	89 tablet	0 of 15 dose(s) supplied	18 tablet	89 tablet	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 tablet	Remarks	VERIFIED

Figure 4.0-40 CDR Preparation

STEP 16

Click on the  **Worksheet** button to view and print as shown in Figure 4.0-41

CDR WORKSHEET

MINISTRY OF HEALTH

Hospital Pakar Sultanah Fatimah, Muar

Date of preparation : 02/10/2017

Worksheet ID: 17-10-0001

Name: [REDACTED]

MRN: [REDACTED]

ID NO: [REDACTED]

Rx. No. 140000877284

Order By: [REDACTED]

Current Visit Location: WAD 9 (MED - P)

No	ROA	Preparation Name	Drug/Diluent Name	Total Dose	Material Used				Storage	Instruction
					Drug / Diluent Vol	No of Dose	Allocated Qty	Batch No		
1	IVSB	Doxorubicin Recons. Fluid:-	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	1 dose(s) to supply	2 vial	Bew22	23/10/2018	Refrigerate (2 - 8 °C)
2	IVSB	Cyclophosphamide Recons. Fluid:WFI 50ml	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	1 dose(s) to supply	2 vial	123dwe34	02/01/2021	Refrigerate (2 - 8 °C)
3	IVB	Vincristine Recons. Fluid:-	Vincristine Sulphate 1mg Injection	2.06 mg	2.06 ml	1 dose(s) to supply	3 vial	234CDR823	02/01/2021	Refrigerate (2 - 8 °C)
			Sodium Chloride 0.9% 100mL IV soln		100 ml		1 vial	P4146061		

Figure 4.0-41 CDR Worksheet

CDR PREPARATION

XXXXXXXXX Myka Age 60 Years 09 Months 25 Days Gender Male MRN HKLM00066880

Address Phone And Email Diagnosis No known Allergies

Height 170 cm Weight 65 kg BMI/BSA 22.5 / 1.76 m² (Last Updated : 28/09/2017) Nationality : Warganegara

Upload Photo

Encounter No: 0017 Admission Date: 28/09/2017 Current Visit Location Ward 8 - Medical (Male) Rx No: W80000213442 Order By: Cycle Start Date: 28/09/2017 Transcribed By: 17


Original Prescriber: Original Prescription Serial No: RX879665438

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
Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 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	VERIFIED
Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 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	VERIFIED
Vincristine Sulphate 1mg Injection	2.06 mg	2.06 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial	0 of 1 dose(s) supplied	3 vial	3 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
Sodium Chloride 0.9% 100mL IV soln	100 ml	100 ml		1 bott		1 bott	1 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED
Prednisolone 5 mg Tablet	29.4 mg	5.88 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5 Schedule	89 tablet	0 of 15 dose(s) supplied	18 tablet	89 tablet	<input type="checkbox"/> Details	<input type="checkbox"/> Details	0 tablet	Remarks	VERIFIED

Figure 4.0-42 CDR Preparation

STEP 17

Click on the  button and CDR Edit Label screen will be displayed as shown in Figure 4.0-43

CDR EDIT LABEL

Select All ☒ 18

<input checked="" type="checkbox"/>	Drug Name	Prednisolone 5 mg Tablet	Print in Local Language	<input type="checkbox"/>
	Dose	5.88 tablet		5.88 biji
	Dosage Form	Oral Tablet		
	Frequency	3 times a day		3 kali sehari
	Chemo Day	1-5		1-5
	Administration Instruction	Take after meal		Diambil selepas makan
	Indication			
	Cautionary	Do not stop this medicine abruptly.		Jangan berhenti ambil ubat dengan tiba-tiba
	Special Instruction	Take medicine as directed by pharmacist		Ambil dos ubat mengikut arahan ahli farmasi anda
	Expiry Date	26/12/2020	Price	2.70
	Batch No	32rer43		

Figure 4.0-43 CDR Edit Label

STEP 18

Click on the  button to print drug label

HOSPITAL PAKAR SULTANAH FATIMAH, MUAR		
[REDACTED]		
[REDACTED]	WAD 9 (MED - P)	[REDACTED] 5620
5.88 tablet	Oral	
3 times a day Take after meal Take medicine as directed by pharmacist Do not stop this medicine abruptly.		
Prednisolone 5mg Tab		
Cycle Start Date: 02/10/2017	18 tablet	RM2.70
Chemo Day: 1-5		
Controlled Medicine		02/10/2017





Figure 4.0-44 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 4.0-45.

CDR EDIT LABEL			
Expiry Date	26/12/2020	Price	2.70
Batch No	32rer43		
<input checked="" type="checkbox"/>	Drug Name Doxorubicin Total Dose 36.75 mg Drug Volume 18.38 ml Route Intravenous Slow Bolus Treatment Date [REDACTED] Prepared Date 02/10/2017 Expire Date 03/10/2017 Price(RM) 97.50 Storage Refrigerate (2 - 8 °C)	Diluent Diluent Volume Total Volume Infusion Rate Infusion Over No Of Label To Print 1 Split Preparation <input checked="" type="checkbox"/> Split to 2 labels	
<input checked="" type="checkbox"/>	Drug Name Doxorubicin Total Dose 36.75 mg Drug Volume 18.38 ml Route Intravenous Slow Bolus Treatment Date [REDACTED] Prepared Date 02/10/2017 Expire Date 03/10/2017 Price(RM) 97.50 Storage Refrigerate (2 - 8 °C)	Diluent Diluent Volume Total Volume Infusion Rate Infusion Over	

Figure 4.0-45 CDR Edit Label

	HOSPITAL PAKAR SULTANAH FATIMAH, MUAR	
	CYTOTOXIC DRUG - Handle with care	
		
HPSF 	WAD 9 (MED - P)	 5620
Drug Name Doxorubicin		
Dose :	36.75 mg	Vol : 18.38 ml
ROA : IVSB		
Treatment Date :		
Prepared Date	02/10/2017	Exp Date : 03/10/2017
Price :	RM97.50	Exp Time :
Storage :	Refrigerate (2 - 8 ?C)	






	HOSPITAL PAKAR SULTANAH FATIMAH, MUAR	
	CYTOTOXIC DRUG - Handle with care	
		
HPSF 	WAD 9 (MED - P)	 5620
Drug Name Doxorubicin		
Dose :	36.75 mg	Vol : 18.38 ml
ROA : IVSB		
Treatment Date :		
Prepared Date	02/10/2017	Exp Date : 03/10/2017
Price :	RM97.50	Exp Time :
Storage :	Refrigerate (2 - 8 ?C)	

Figure 4.0-46 CDR Drug Label (Split)



SXXXXXX

My...

Age 60 Years 09 Months 25 Days

Gender Male

MRN HKLM00066880

Address

Phone And Email

Diagnosis

No known Allergies

Height 170 cm

Weight 65 kg

BMI/BSA 22.5 / 1.76 m²

(Last Updated : 28/09/2017)

Nationality : Warganegara

Upload Photo

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

Encounter No: 0017

Admission Date: 28/09/2017

Current Visit Location Ward 8 - Medical (Male)

Rx No: W80000213442

Order By:

Cycle Start Date: 28/09/2017

Transcribed By:

Original Prescriber:

Original Prescription Serial No: RX879665438

PRESCRIPTION

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

1 / 1

[1 - 4 / 4]


	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
	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Vincristine Sulphate 1mg Injection	2.06 mg	2.06 ml	1.4 mg/m2, OD (once daily), Day: 1 <i>Schedule</i>	3 vial	0 of 1 dose(s) supplied	3 vial	3 vial	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED
	Sodium Chloride 0.9% 100mL IV soln	2.06 mg	100 ml		1 bott		1 bott	1 bott			0 bott	Remarks	VERIFIED
	Prednisolone 5 mg Tablet	29.4 mg	5.88 tablet	20 mg/m2, TDS (3 times a day), Day: 1-5 <i>Schedule</i>	89 tablet	0 of 15 dose(s) supplied	18 tablet	89 tablet		<input type="checkbox"/> Details	0 tablet	Remarks	VERIFIED

Figure 4.0-47 CDR Preparation

STEP 19

Click on the  button to proceed with preparation and alert message will be displayed as Figure 4.0-48

CONFIRMATION





CONF0060: Do you want to proceed with the preparation?

Yes

No

Figure 4.0-48 Confirmation Alert Message

Note

- Click on the  button to proceed with the preparation and it will back to Medication Order screen as per Figure 4.0-49.
- Click on the  button to cancel preparation.

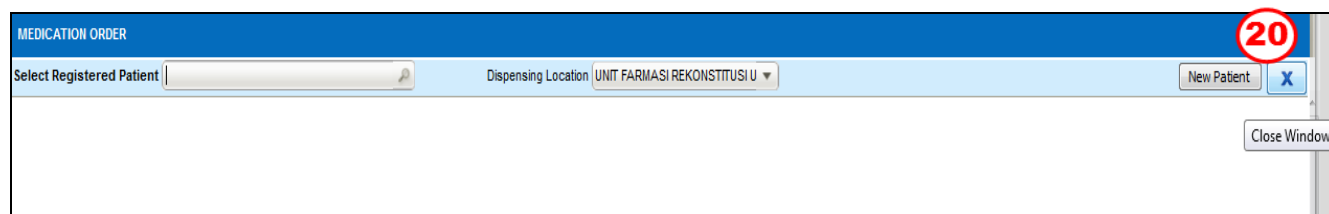



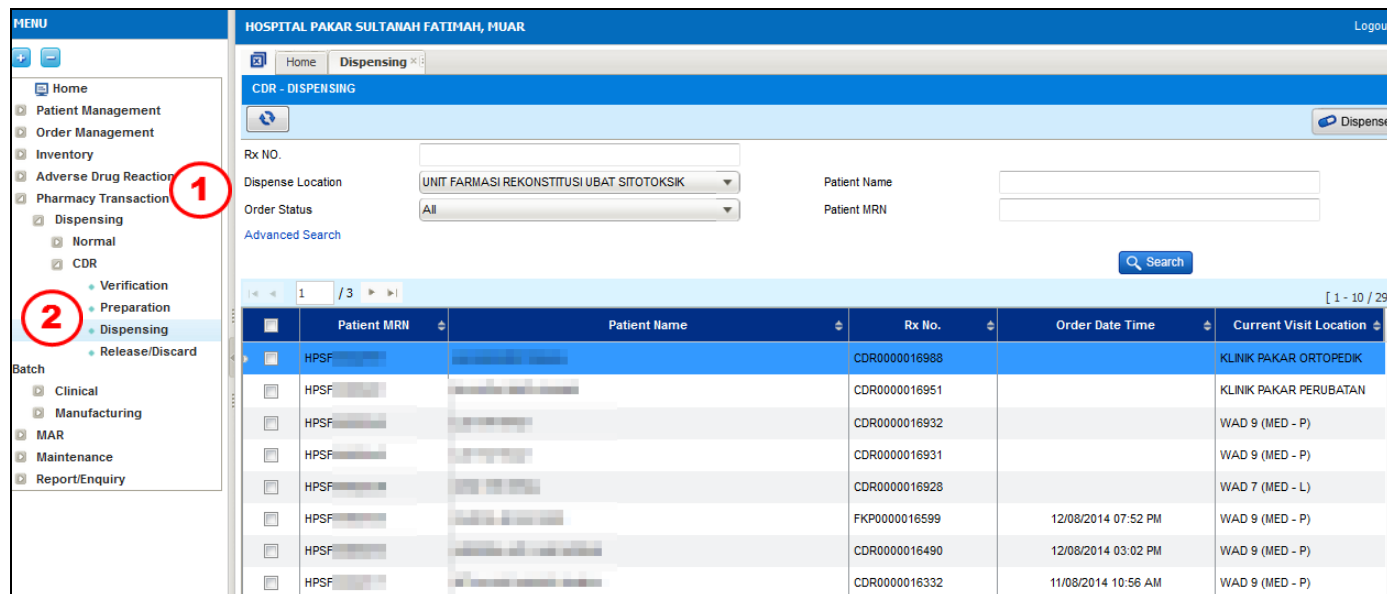
Figure 4.0-49 Medication Order

STEP 20

Click on the  button to close Medication Order screen

5.0 CDR Dispensing

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



	Patient MRN	Patient Name	Rx No.	Order Date Time	Current Visit Location
	HPSF		CDR0000016988		KLINIK PAKAR ORTOPEDIK
	HPSF		CDR0000016951		KLINIK PAKAR PERUBATAN
	HPSF		CDR0000016932		WAD 9 (MED - P)
	HPSF		CDR0000016931		WAD 9 (MED - P)
	HPSF		CDR0000016928		WAD 7 (MED - L)
	HPSF		FKP0000016599	12/08/2014 07:52 PM	WAD 9 (MED - P)
	HPSF		CDR0000016490	12/08/2014 03:02 PM	WAD 9 (MED - P)
	HPSF		CDR0000016332	11/08/2014 10:56 AM	WAD 9 (MED - P)

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

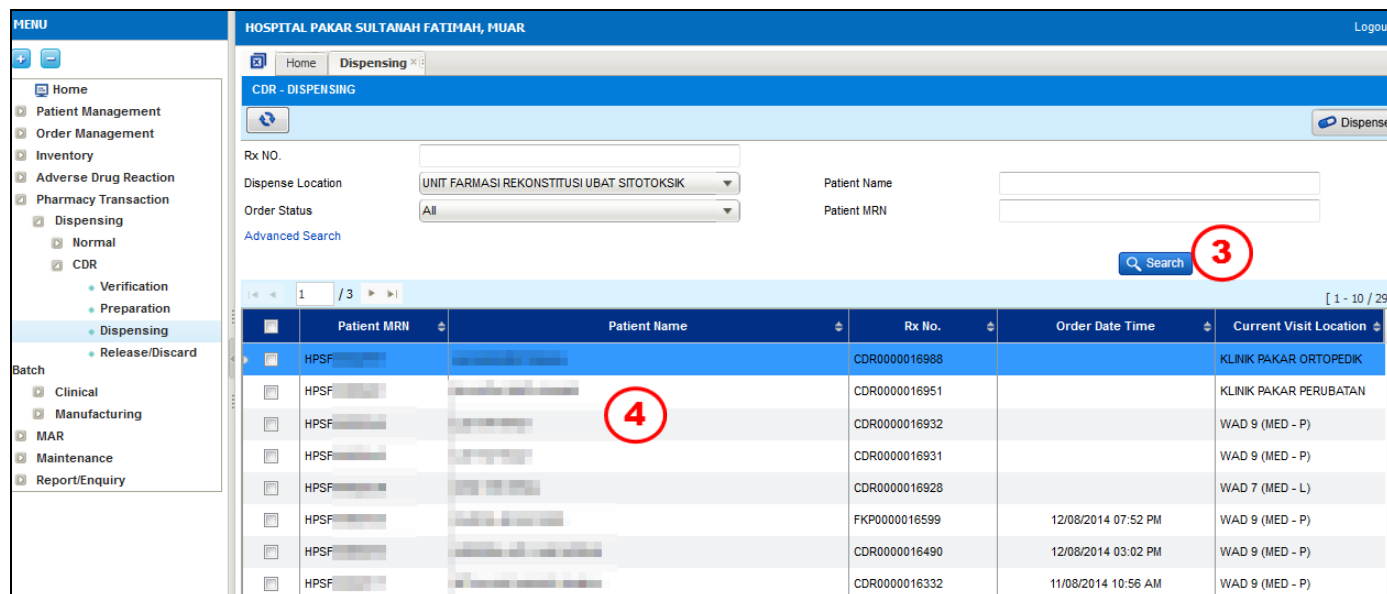
Various search criteria is provided as below:

- 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



HOSPITAL PAKAR SULTANAH FATIMAH, MUAR

Home Dispensing Logout

CDR - DISPENSING

Rx NO.

Dispense Location: UNIT FARMASI REKONSTITUSI UBAT SITOTOKSIK

Order Status: All

Patient Name:

Patient MRN:

Advanced Search

1 / 3 [1 - 10 / 29]

	Patient MRN	Patient Name	Rx No.	Order Date Time	Current Visit Location
<input checked="" type="checkbox"/>	HPSF		CDR0000016988		KLINIK PAKAR ORTOPEDIK
<input type="checkbox"/>	HPSF		CDR0000016951		KLINIK PAKAR PERUBATAN
<input type="checkbox"/>	HPSF		CDR0000016932		WAD 9 (MED - P)
<input type="checkbox"/>	HPSF		CDR0000016931		WAD 9 (MED - P)
<input type="checkbox"/>	HPSF		CDR0000016928		WAD 7 (MED - L)
<input type="checkbox"/>	HPSF		FKP0000016599	12/08/2014 07:52 PM	WAD 9 (MED - P)
<input type="checkbox"/>	HPSF		CDR0000016490	12/08/2014 03:02 PM	WAD 9 (MED - P)
<input type="checkbox"/>	HPSF		CDR0000016332	11/08/2014 10:56 AM	WAD 9 (MED - P)

Figure 5.0-2 CDR Dispensing Listing Page

Advance Search

Search patient record based:

a) Current Visit Location Type

- All
- ClinicDay 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														
		M,	Age 03 Years 05 Months 24 Days	Gender Male	MRN									
Address		Phone And Email		Diagnosis		No known Allergies								
Height	93 cm	Weight	13.7 kg	BMI/BSA	15.8 / 0.61 m ²	(Last Updated : 27/02/2017) Nationality : Warganegara								
Lab Parameter Counselling History Demographic Pharmacist Notes Medication Profile Other Appointment														
Encounter No:	0177	Admission Date:	21/02/2017	Current Visit Location	Ward 2- Paediatric	Rx No:	W20000208695	Order By:		Cycle Start Date:	22/02/2017	Transcribed By:		
Original Prescriber:		Original Prescription Serial No:												
COLLECTION DETAILS														
Dispensed To				Dispensed Date and Time		02/10/2017 15:10:56		Remarks						
Dispensed At		Pharmacy Counter		Collected By										
PRESCRIPTION														
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	Outsources	Prev Disp Qty	Remarks	Status	Completed
	Vincristine Sulphate 1mg Injection Sodium Chloride 0.9% 100mL IV soln	2.06 mg	2.06 ml 100 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial 1 bott	0 of 1 dose(s) supplied	3 vial 1 bott	3 vial 1 bott	Details		0 vial 0 bott	Remarks	PREPARED	<input type="checkbox"/>
	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 mg/m2, OD (once daily), Day: 1 Schedule	2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	Details		0 vial	Remarks	PREPARED	<input type="checkbox"/>
	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 mg/m2, OD (once daily), Day: 1	2 vial	0 of 1 dose(s) supplied	2 vial	2 vial	Details		0 vial	Remarks	PREPARED	<input type="checkbox"/>

Figure 5.0-3 CDR Dispensing

STEP 5

Click on the  button to dispense the medication

A screenshot of a confirmation dialog box. The title bar is blue with the word "CONFIRMATION" in white. The main area has a white background. On the left is a green circular icon with a white question mark. To its right is the text "CONF0064: Do you want to dispense now?". At the bottom are three buttons: "Cancel" (with a dashed border), "Yes", and "No".

Figure 5.0-4 Confirmation Alert Message

Force Close for Selected Drug:

CDR DISPENSING

Prescription

X

Myka

Age 03 Years 05 Months 24 Days

Gender Male

MRN

Address

Phone And Email

Diagnosis

No known Allergies

Height 93 cm Weight 13.7 kg BMI/BSA 15.8 / 0.61 m² (Last Updated : 27/02/2017) Nationality : Warganegara

Upload Photo

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

Encounter No: 0177 Admission Date: 21/02/2017 Current Visit Location: Ward 2- Paediatric Rx No: W20000208695 Order By: Cycle Start Date: 22/02/2017 Transcribed By:

Original Prescriber: Original Prescription Serial No:

COLLECTION DETAILS

Dispensed To

Dispensed Date and Time

02/10/2017 15:10:56

Remarks

Dispensed At

Collected By

PRESCRIPTION

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
	Vincristine Sulphate 1mg Injection Sodium Chloride 0.9% 100mL IV soln	2.06 mg	2.06 ml 100 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial 1 bott	0 of 1 dose(s) supplied	3 vial 1 bott	3 vial 1 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial 0 bott	Remarks	PREPARED	<input checked="" type="checkbox"/>
	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 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"/>
	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 mg/m2, OD (once daily), Day: 1	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"/>

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

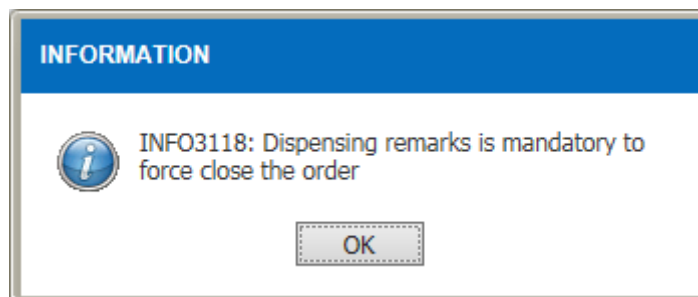


Figure 5.0-6 Information Alert Message

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

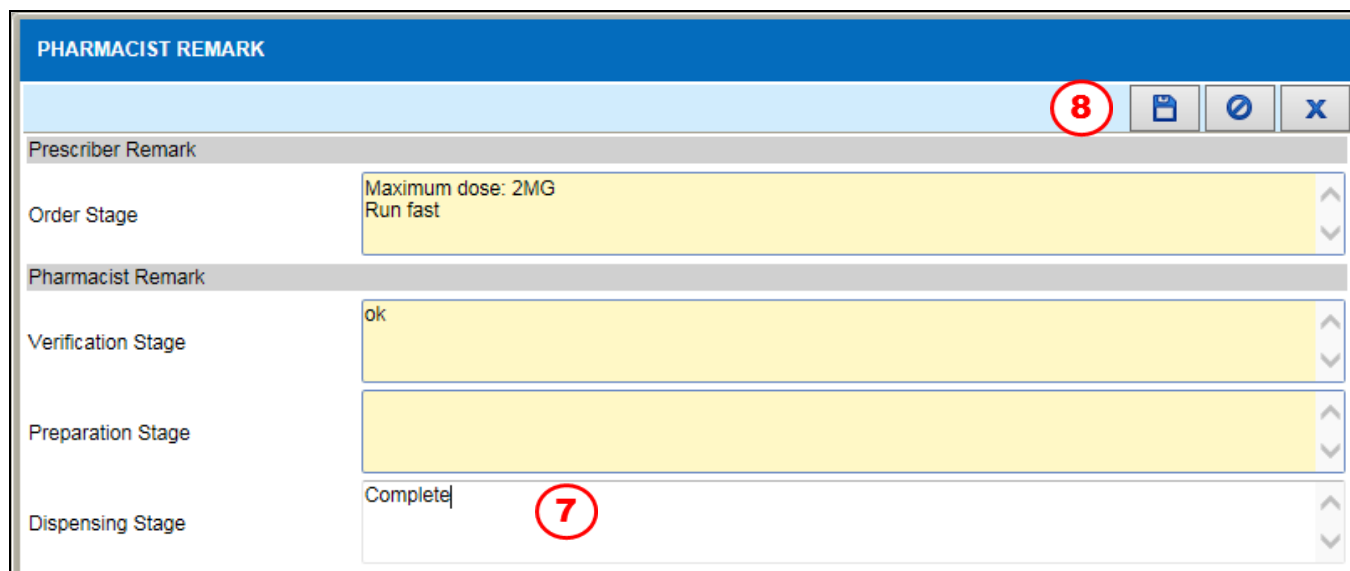


Figure 5.0-7 Pharmacist Remark

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

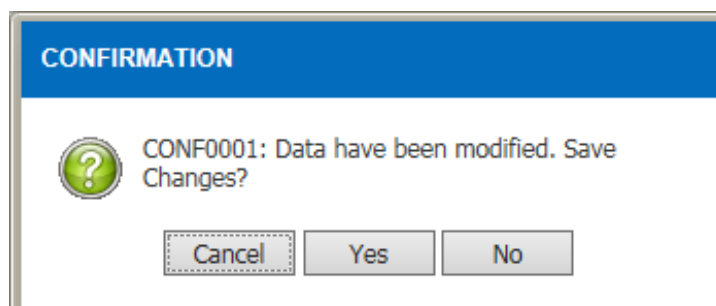


Figure 5.0-8 Confirmation Alert Message

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

Myka

Age 03 Years 05 Months 24 Days

Gender Male

MRN

Address

Phone And Email

Diagnosis

No known Allergies

Height 93 cm Weight 13.7 kg BMI/BSA 15.8 / 0.61 m² (Last Updated : 27/02/2017) Nationality : Warganegara

Upload Photo

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

Encounter No: 0177

Admission Date: 21/02/2017

Current Visit Location: Ward 2- Paediatric

Rx No: W20000208695

Order By:

Cycle Start Date: 22/02/2017

Transcribed By:

Original Prescriber:

Original Prescription Serial No:

COLLECTION DETAILS

Dispensed To

Dispensed Date and Time

02/10/2017 15:10:56

Remarks

Dispensed At

Collected By

PRESCRIPTION

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	Outsources	Prev Disp Qty	Remarks	Status	Completed
	Vincristine Sulphate 1mg Injection Sodium Chloride 0.9% 100mL IV soln	2.06 mg	2.06 ml 100 ml	1.4 mg/m2, OD (once daily), Day: 1 Schedule	3 vial 1 bott	0 of 1 dose(s) supplied	3 vial 1 bott	3 vial 1 bott	<input checked="" type="checkbox"/> Details	<input type="checkbox"/> Details	0 vial 0 bott	Remarks	PREPARED	<input checked="" type="checkbox"/>
	Cyclophosphamide 1g/50ml Injection	1102.5 mg	55.12 ml	750 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"/>
	Doxorubicin HCl 50mg/25ml Injection	73.5 mg	36.75 ml	50 mg/m2, OD (once daily), Day: 1	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"/>

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

Drug Name

Dispense Location

UNIT FARMASI REKONSTITUSI UBAT SITOTOKSIK

Search

Search History

New Record(s)

1

/ 1

[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	CDR00000002038	01/07/2014	2 vial 1 bott	PREPARED	
<input type="checkbox"/>	HPSF00019418	EN BORHAN	Docetaxel 80mg Inj Sodium Chloride 0.9% 250mL IV soln	CDR00000002021	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

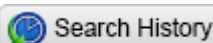
- To return the allocated quantity of the CDR Preparation back into inventory.

b) Discard

- To dispose the CDR product that has been prepared.

- 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.

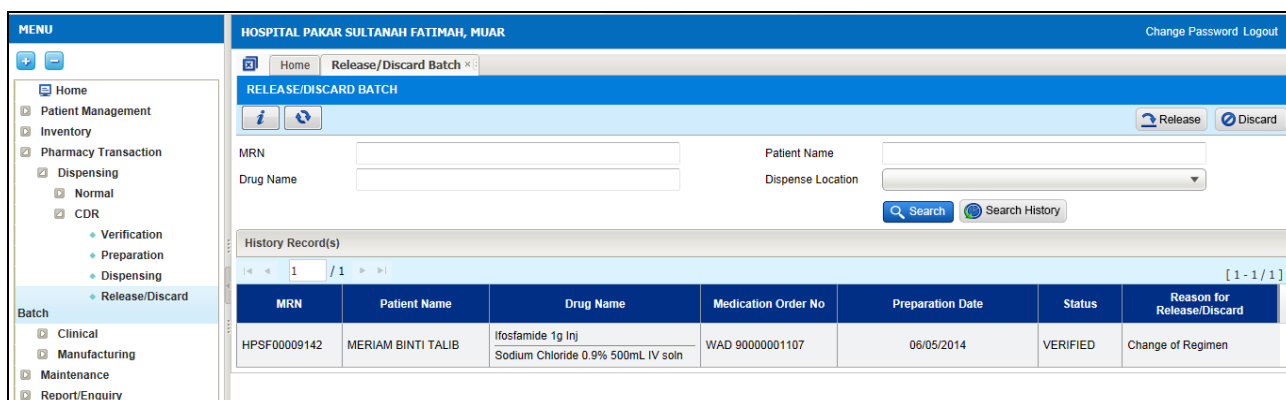


Figure 5.0-11 Release/Discard Batch History

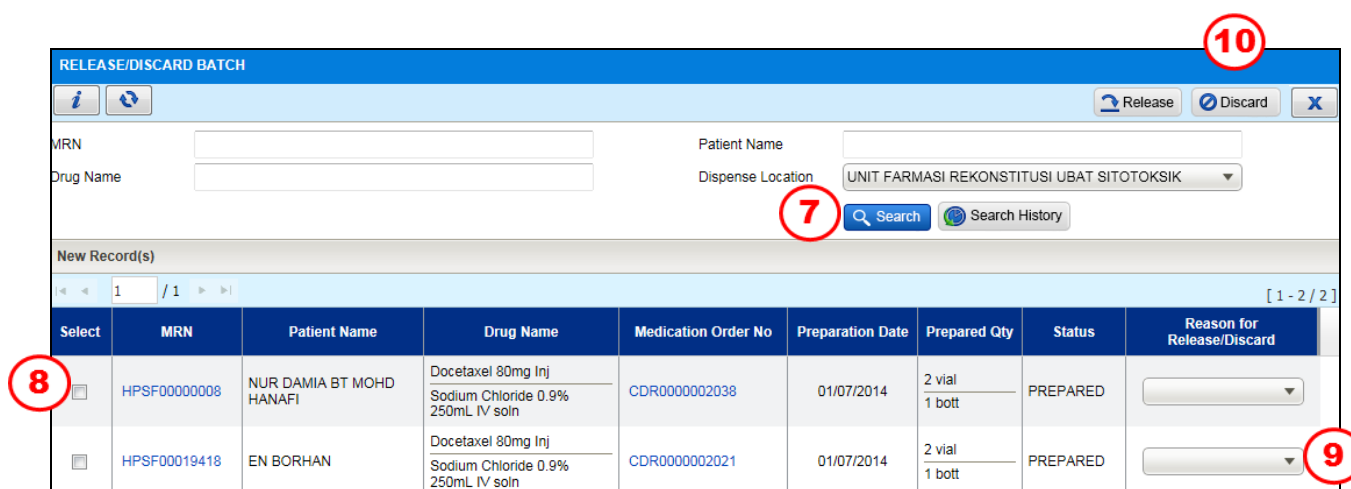


Figure 5.0-12 Release/Discard Batch

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		