



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

Pharmacy Based

User Manual IV Admixture

Version	: 6th Edition
Document ID	: PB_U. MANUAL_ IV ADMIXTURE



PhIS & CPS Project
User Manual – IV Admixture



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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 to benefit facility end user in the health care sector.

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

1. Order Management
2. Inpatient Pharmacy
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 IV Dispensing sub-module and its key features and functionalities. The primary objective is to guide user through the process of completing PhIS application process.

User will understand the following activities in details:

- Record Prescription
- Screening & Verification
- Preparation
- Dispensing
- Release / Discard Batch

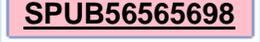
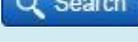
1.3 Organised Sections

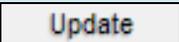
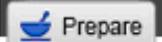
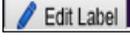
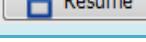
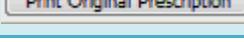
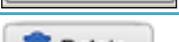
These are the sections within this document:

- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : Infusion Order
- 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		

IV Dispensing Module Legend			
	Update Patient's Height and Weight		Print
	Acknowledge Prescription		Calendar
	Preparation		Save and Continue
	Edit Label		Dispense
	Resume		Print Original Prescription
	Hold		Verification
	Confirm		Release/Discard
	Re-Dispense		Delete

Note

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

3.0 Order Management-IV Admixture

Overview

The Order Management-Infusion Order module handles all the information to specify the ordered 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 authorised personnel only and be in compliance with guidelines on prescribing in the drug formulary (drug category, discipline / specialty) as defined by MOH.

User Group

This module is intended for pharmacist and assistant pharmacist (subject to user assign by the facility)

Functional Diagram

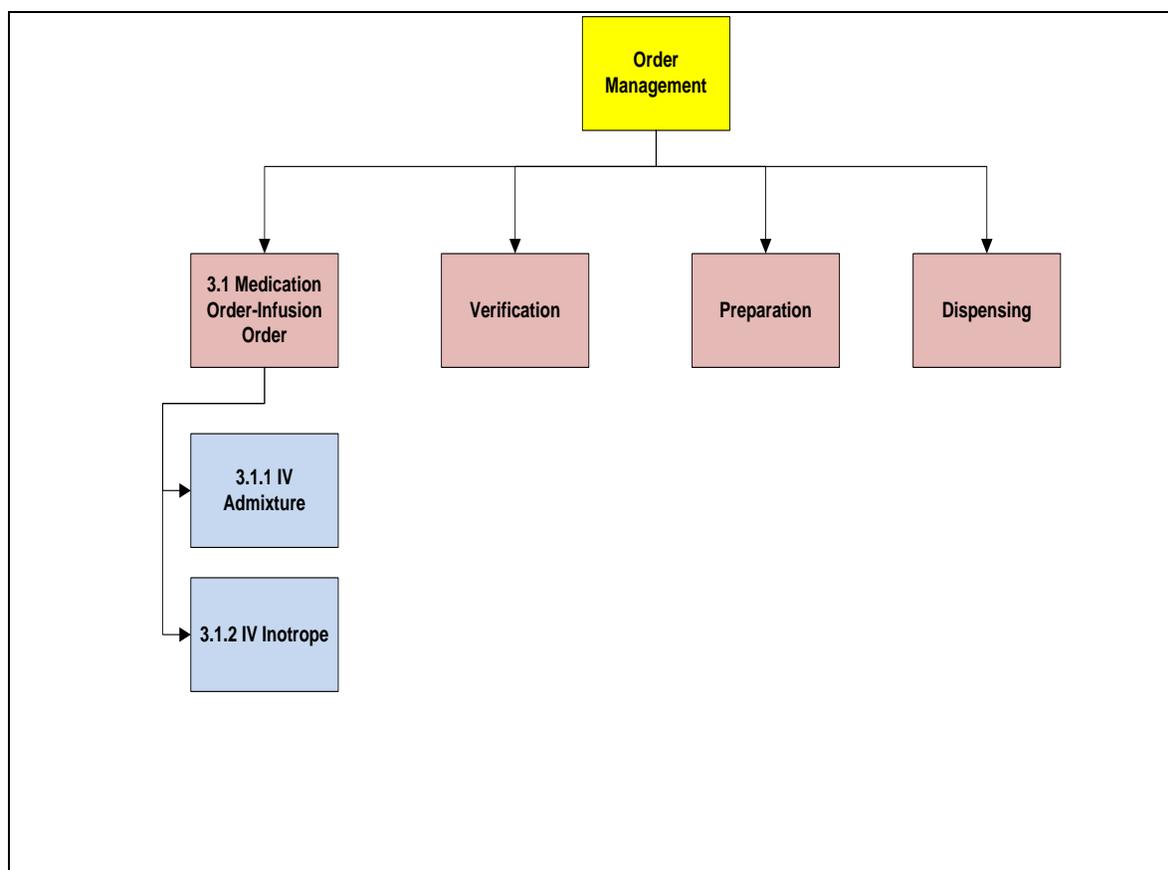


Figure 3.0-1

Functional Description

Admixture comprises of four (4) main functions:

- **Record Prescription- Infusion Order**

To record: IV Admixture

- **Record Prescription & Verification**

Record prescription function is used to transfer manual prescription to online prescription. All prescriptions are required to be key in into system in order to proceed with dispensing process such as patient demographic and order details. Record prescription is combination of 2 process which is ordering and dispensing which consist of record prescription, verification, preparation and dispensing in single workflow.

- **Preparation**

The preparation function allow user to allocate drug quantity and batch to be dispense based on the recorded prescription. This function is integrated with inventory system where the stock will be auto deduct after dispensing process. Drug label can be generate and print based on the prepared drugs. Some of the sub-function is available in this screen like alternate, hold/resume and drug interaction (MIMS) is provided to help user with more effectively and efficiency during preparation process for patient safety purpose.

- **Dispensing**

Dispensing functions is to record and save all the dispensed medication detail information. This function is the mandatory steps to complete the dispense medication process. At this screen, information related with the patient, prescription and prepared drug also is provided.

- **IV Release/Discard Batch**

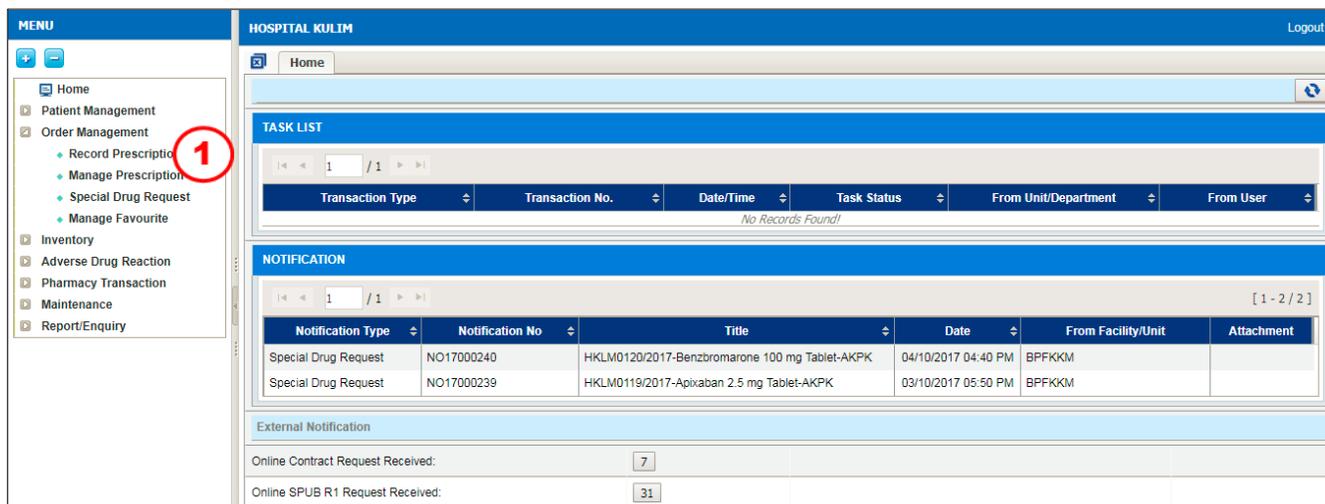
Release batch function will be used when user decide to un-packed the reserved/prepared drugs. All the release drugs such as tablets, capsule and other than liquid will be released (stocked back into inventory) or discarded (stock deducted from inventory)

3.1 Transcribe Infusion Order

Infusion order is used for recording medicine for Inpatient, Emergency and Day Care departments based on facility setup.

3.1.1 Search Registered Patient

To view an existing patient record, please perform the steps below.



Notification Type	Notification No	Title	Date	From Facility/Unit	Attachment
Special Drug Request	NO17000240	HKLM0120/2017-Benzbromarone 100 mg Tablet-AKPK	04/10/2017 04:40 PM	BPFKKM	
Special Drug Request	NO17000239	HKLM0119/2017-Apixaban 2.5 mg Tablet-AKPK	03/10/2017 05:50 PM	BPFKKM	

Figure 3.1-1 PhIS Home page

STEP 1

Click on 'Order Management' menu followed by 'Record Prescription' and screen will be displayed as per Figure 3.1.1-1

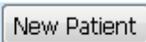


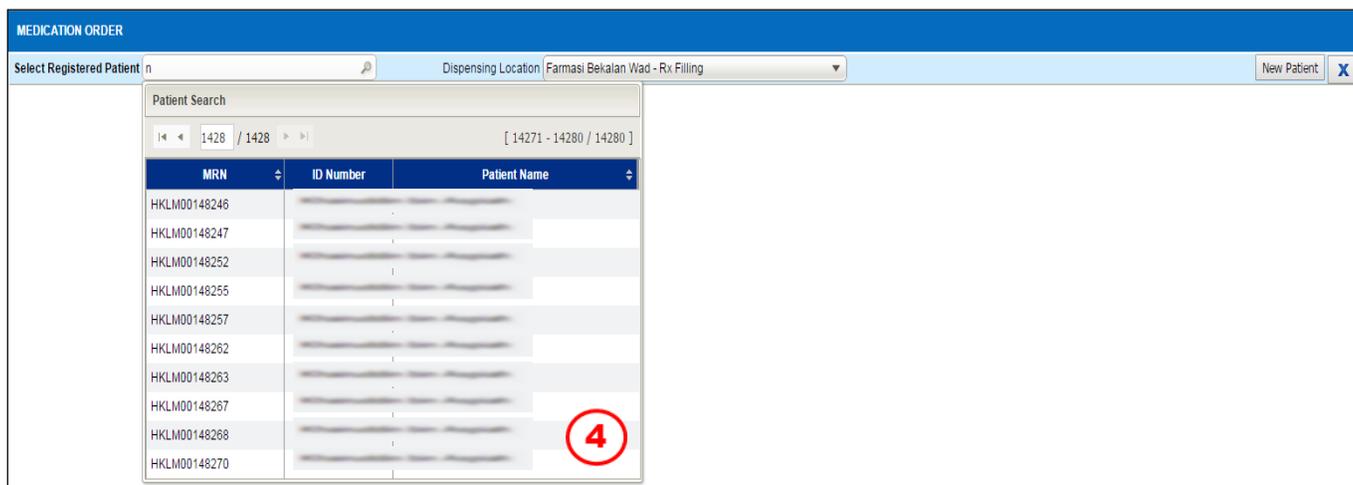
Figure 3.1.1-1 PhIS Home page

STEP 2

Search patient based on name or IC number or MRN patient

Note

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



MEDICATION ORDER

Select Registered Patient: n Dispensing Location: Farmasi Bekalan Wad - Rx Filling New Patient X

Patient Search

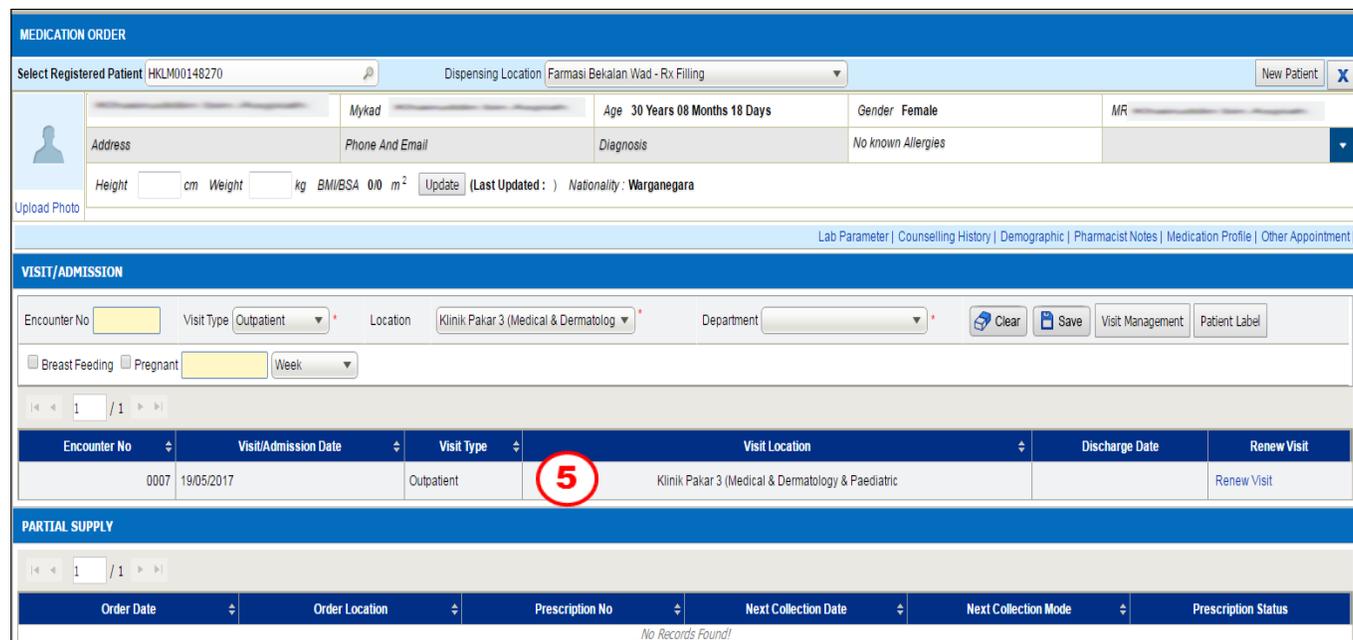
1428 / 1428 [14271 - 14280 / 14280]

MRN	ID Number	Patient Name
HKLM00148246		
HKLM00148247		
HKLM00148252		
HKLM00148255		
HKLM00148257		
HKLM00148262		
HKLM00148263		
HKLM00148267		
HKLM00148268		
HKLM00148270		

Figure 3.1.1-3 Medication Order

STEP 4

Double-click on the selected patient and the details will be displayed as per Figure 3.1.1-3



MEDICATION ORDER

Select Registered Patient: HKLM00148270 Dispensing Location: Farmasi Bekalan Wad - Rx Filling New Patient X

Mykad: [Redacted] Age: 30 Years 08 Months 18 Days Gender: Female MR: [Redacted]

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

Height: [Redacted] cm Weight: [Redacted] kg BMI/BSA: 0/0 m² Update (Last Updated:) Nationality: Warganegara

Upload Photo

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

VISIT/ADMISSION

Encounter No: [Redacted] Visit Type: Outpatient Location: Klinik Pakar 3 (Medical & Dermatolog) Department: [Redacted] Clear Save Visit Management Patient Label

Breast Feeding Pregnant: [Redacted] Week: [Redacted]

1 / 1

Encounter No	Visit/Admission Date	Visit Type	Visit Location	Discharge Date	Renew Visit
0007	19/05/2017	Outpatient	Klinik Pakar 3 (Medical & Dermatology & Paediatric)		Renew Visit

PARTIAL SUPPLY

1 / 1

Order Date	Order Location	Prescription No	Next Collection Date	Next Collection Mode	Prescription Status
No Records Found!					

Figure 3.1.1-4 Medication Order

Note

- Click on the 'Renew Visit' hyperlink to renew a visit for the same location.
- Select the 'Visit Type' and 'Location' to create a new visit.
- Click on the [Visit Management](#) to access 'Visit Management' Screen.

STEP 5

Double-click on the selected visit and the details will be displayed as per Figure 3.1.1-5

MEDICATION ORDER

Select Registered Patient: Dispensing Location: New Patient

<input type="text" value="Mjy"/>	Age: 32 Years 04 Months	Gender: Female	M
Address: <input type="text"/>		Diagnosis: <input type="text" value="No known Allergies"/>	
Phone And Email: <input type="text"/>			

Height: cm Weight: kg BMI/BSA: m² (Last Updated: 06/10/2017) Nationality:

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

VISIT/ADMISSION

Encounter No: Visit Type: Location: Department:

Breast Feeding Pregnant Week:

VISIT RECORD

Original Prescriber Name: Original Order Transaction Number:

<ul style="list-style-type: none"> <input type="button" value="Patient Diagnosis"/> <input type="button" value="Allergy"/> <input type="button" value="Adverse Drug Reaction"/> <input type="button" value="Nutritional Assessment"/> <li style="background-color: #0056b3; color: white;"><input type="button" value="Normal Order"/> <input type="button" value="Infusion Order"/> <input type="button" value="Parenteral Nutrition"/> <input type="button" value="Cytotoxic Drug Reconstitution"/> <input type="button" value="Therapeutic Drug Monitoring"/> <input type="button" value="Radiopharmaceuticals"/> 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Drug</td> <td><input type="text"/></td> <td style="width: 20%;"><input type="button" value="Advanced Search"/></td> <td style="width: 60%;"></td> </tr> <tr> <td>Dosage</td> <td><input type="text" value="0"/></td> <td><input type="button" value="Alert"/></td> <td style="background-color: #0056b3; color: white; text-align: center;">Drug Name</td> </tr> <tr> <td>Admin Route</td> <td><input type="text"/></td> <td><input type="button" value="Order Details"/></td> <td style="background-color: #0056b3; color: white; text-align: center;">Order Qty</td> </tr> <tr> <td>Frequency</td> <td><input type="text"/></td> <td><input type="button" value="Drug Info"/></td> <td style="background-color: #0056b3; color: white; text-align: center;">Drug Info</td> </tr> <tr> <td>Duration</td> <td><input type="text"/></td> <td><input type="checkbox"/> Own Medication</td> <td></td> </tr> <tr> <td>Start Date / Time</td> <td><input type="text" value="06/10/2017 11:35 AM"/></td> <td><input type="checkbox"/> Ward Stock</td> <td></td> </tr> <tr> <td>End Date / Time</td> <td><input type="text" value="06/10/2017 11:35 AM"/></td> <td><input type="checkbox"/> Patient Require Counselling</td> <td></td> </tr> <tr> <td>Order Quantity</td> <td><input type="text" value="0"/></td> <td></td> <td></td> </tr> <tr> <td>Drug Indication</td> <td><input type="text"/></td> <td></td> <td></td> </tr> <tr> <td>Drug Remarks</td> <td><input type="text"/></td> <td></td> <td></td> </tr> <tr> <td>Available Qty</td> <td><input type="text"/></td> <td></td> <td></td> </tr> </table> <p style="text-align: left; margin-top: 5px;"> <input type="button" value="Add"/> <input type="button" value="Modify"/> <input type="button" value="Clear"/> </p>	Drug	<input type="text"/>	<input type="button" value="Advanced Search"/>		Dosage	<input type="text" value="0"/>	<input type="button" value="Alert"/>	Drug Name	Admin Route	<input type="text"/>	<input type="button" value="Order Details"/>	Order Qty	Frequency	<input type="text"/>	<input type="button" value="Drug Info"/>	Drug Info	Duration	<input type="text"/>	<input type="checkbox"/> Own Medication		Start Date / Time	<input type="text" value="06/10/2017 11:35 AM"/>	<input type="checkbox"/> Ward Stock		End Date / Time	<input type="text" value="06/10/2017 11:35 AM"/>	<input type="checkbox"/> Patient Require Counselling		Order Quantity	<input type="text" value="0"/>			Drug Indication	<input type="text"/>			Drug Remarks	<input type="text"/>			Available Qty	<input type="text"/>		
Drug	<input type="text"/>	<input type="button" value="Advanced Search"/>																																											
Dosage	<input type="text" value="0"/>	<input type="button" value="Alert"/>	Drug Name																																										
Admin Route	<input type="text"/>	<input type="button" value="Order Details"/>	Order Qty																																										
Frequency	<input type="text"/>	<input type="button" value="Drug Info"/>	Drug Info																																										
Duration	<input type="text"/>	<input type="checkbox"/> Own Medication																																											
Start Date / Time	<input type="text" value="06/10/2017 11:35 AM"/>	<input type="checkbox"/> Ward Stock																																											
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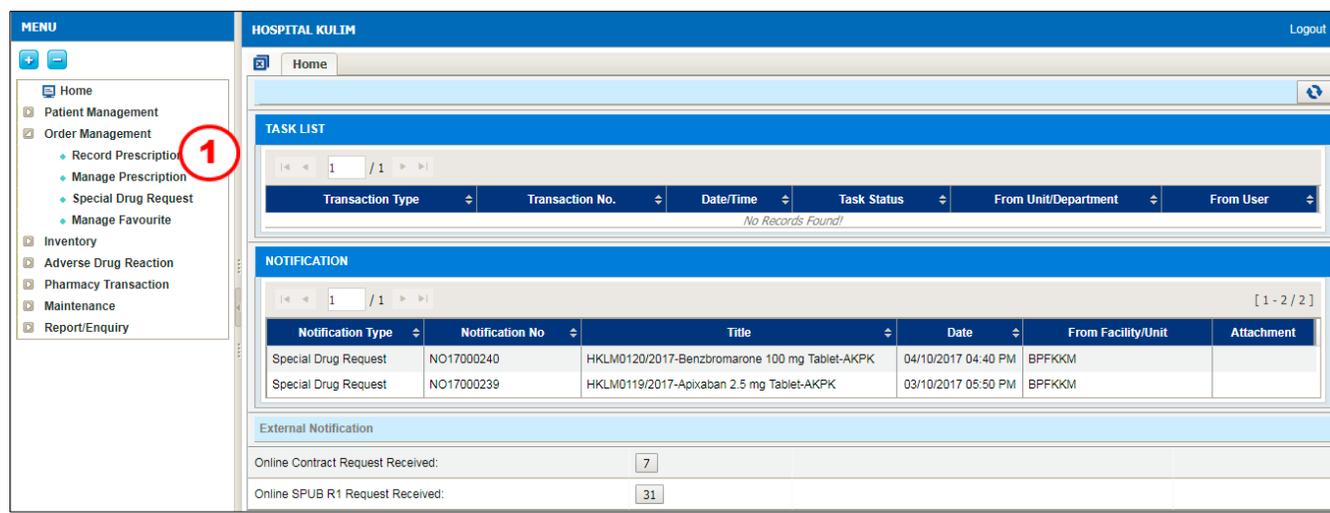
Figure 3.1.1-5 Medication Order

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Page 8

3.1.2 New Patient Registration

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



Notification Type	Notification No	Title	Date	From Facility/Unit	Attachment
Special Drug Request	NO17000240	HKLM0120/2017-Benzbromarone 100 mg Tablet-AKPK	04/10/2017 04:40 PM	BPFKKM	
Special Drug Request	NO17000239	HKLM0119/2017-Apixaban 2.5 mg Tablet-AKPK	03/10/2017 05:50 PM	BPFKKM	

Figure 3.1.2-1 PhIS Home page

STEP 1

Click on 'Order Management' menu followed by 'Record Prescription' and screen will be displayed as per Figure 3.1.2-1



Figure 3.1.2-2 Transcribe Order Create New Patient

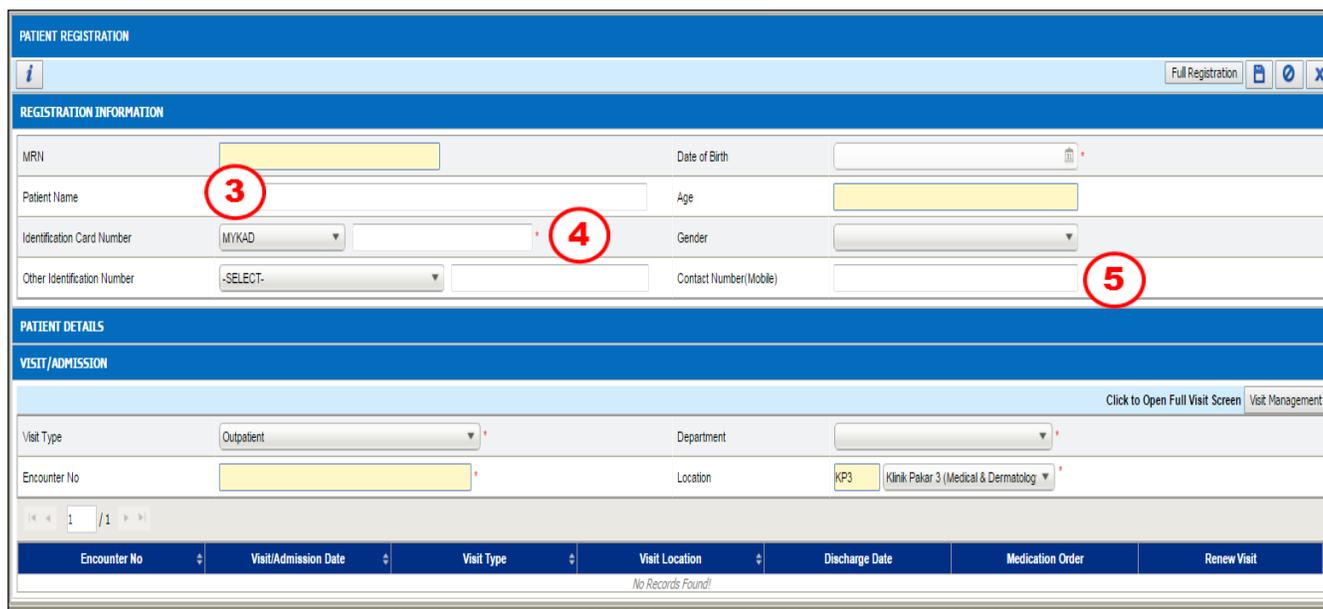


Figure 3.1.2-3 Registration Information

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:
 - BIRTH CERTIFICATE
 - DRIVING LICENSE
 - FATHER IC
 - MILITARY CARD NUMBER
 - MOTHER IC
 - OLD IC
 - PASSPORT
 - PENSION CARD
 - POLICE CARD NUMBER
 - UNKNOWN PATIENT
 - WORK PERMITand enter the relevant number.

STEP 5

Enter **Contact Number (Mobile)**

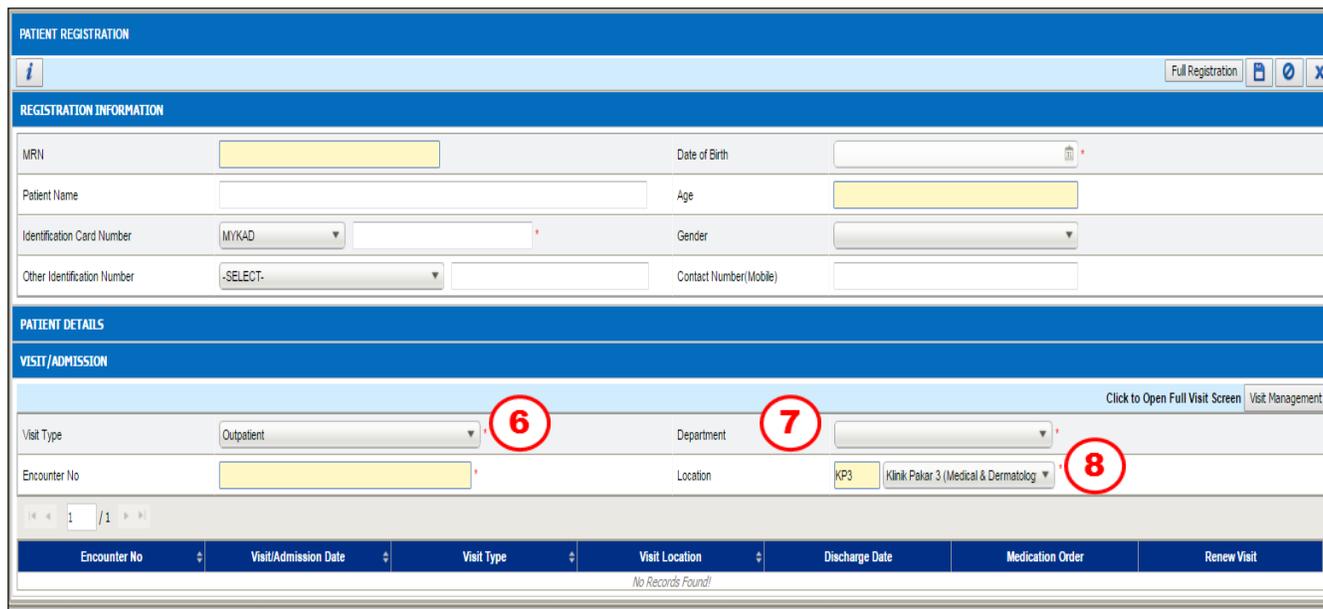


Figure 3.2-4 Visit/Admission

STEP 6

Select the **Visit Type** from dropdown box

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

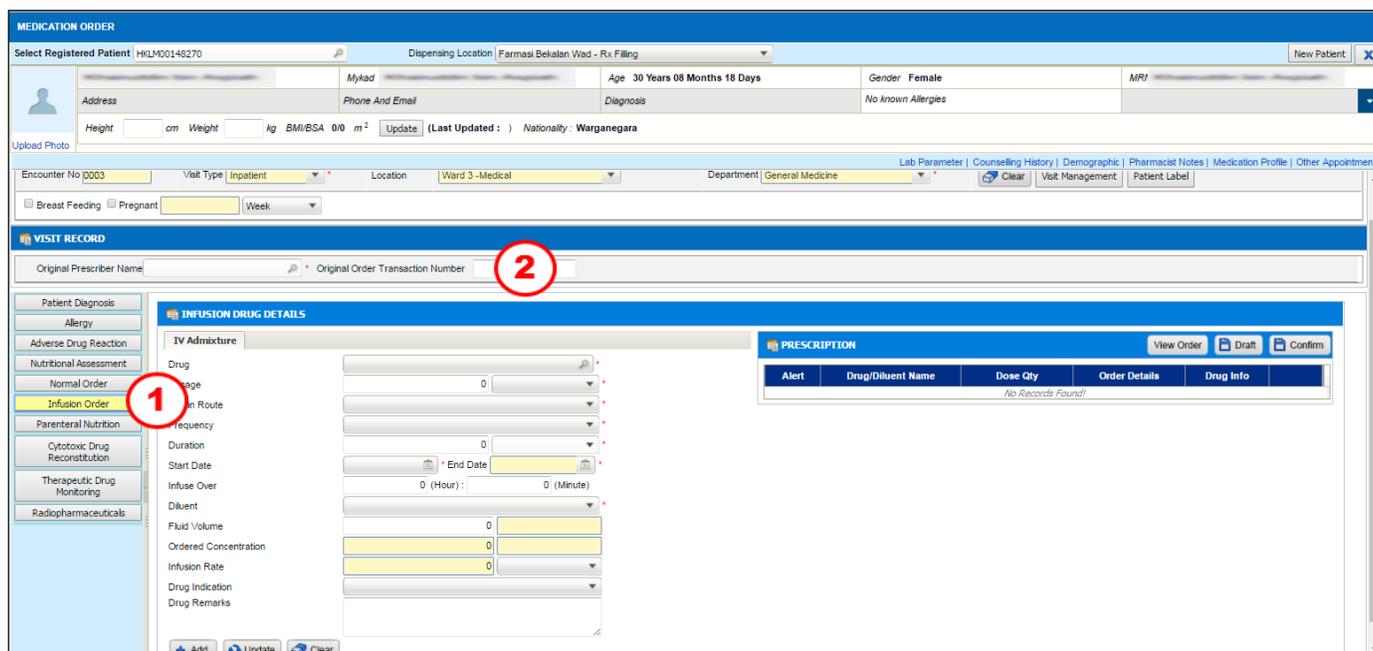
Click on the  button to save the record

Note

- After click the save button, system will automatically generate the **MRN** (Medical Record Number) and ,  and  buttons will be enabled.
- Click on the  button to access 'full patient registration' Screen.
- Another option to register a new patient is to click on the  button located under Patient Quick Registration

3.2 Infusion Record prescription, Verification, Prepare and Dispense

A function for a pharmacist to order injectable medication that required further dilution before administration. However, it only applicable for medication that are diluted by pharmacist department. If the dilution is prepared by nursing personnel, please use normal order function.



The screenshot shows the 'MEDICATION ORDER' interface. At the top, there is a patient selection area with fields for 'Select Registered Patient' (HKL00148270), 'Dispensing Location' (Farmasi Bekalan Wad - Rx Filling), and 'New Patient' (checked). Below this is a patient information section with fields for 'Mykad', 'Age' (30 Years 08 Months 18 Days), 'Gender' (Female), 'MRN', 'Address', 'Phone And Email', 'Diagnosis', and 'No known Allergies'. There are also fields for 'Height', 'Weight', 'BMI/BSA', and 'Nationality' (Warganegara). A 'VISIT RECORD' section contains 'Encounter No 0003', 'Visit Type' (Inpatient), 'Location' (Ward 3 -Medical), and 'Department' (General Medicine). The 'INFUSION DRUG DETAILS' section is active, showing fields for 'Drug', 'Dose', 'Frequency', 'Duration', 'Start Date', 'End Date', 'Infuse Over', 'Diluent', 'Fluid Volume', 'Ordered Concentration', 'Infusion Rate', 'Drug Indication', and 'Drug Remarks'. A 'PRESCRIPTION' table is visible with columns for 'Alert', 'Drug/Diluent Name', 'Dose Qty', 'Order Details', and 'Drug Info'. Red circles 1 and 2 highlight the 'Infusion Order' tab in the left sidebar and the 'Original Order Transaction Number' field in the 'VISIT RECORD' section, respectively.

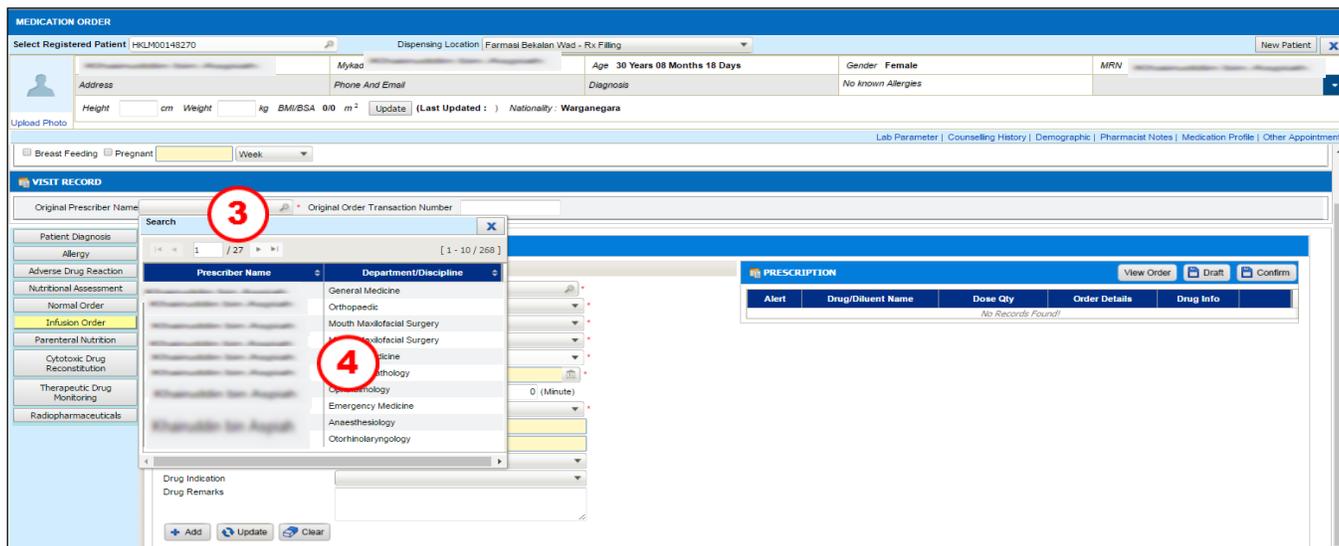
Figure 3.2-1 Medication Order

STEP 1

Click on the *Infusion Order* tab

STEP 2

Enter *Original Order Transaction Number*



This screenshot shows the same 'MEDICATION ORDER' interface as Figure 3.2-1, but with the 'Original Order Transaction Number' field in the 'VISIT RECORD' section active. A search box is open, and a search results table is displayed. Red circles 3 and 4 highlight the search input field and the search results table, respectively. The search results table has columns for 'Prescriber Name' and 'Department/Discipline'. The results list various departments such as General Medicine, Orthopaedic, Mouth Maxillofacial Surgery, and Anaesthesiology. The 'PRESCRIPTION' table is also visible, showing 'No Records Found!'.

Figure 3.2-2 Medication Order

STEP 3

Click on the  button to search **Original Prescriber Name**

STEP 4

Double click on the selected prescriber

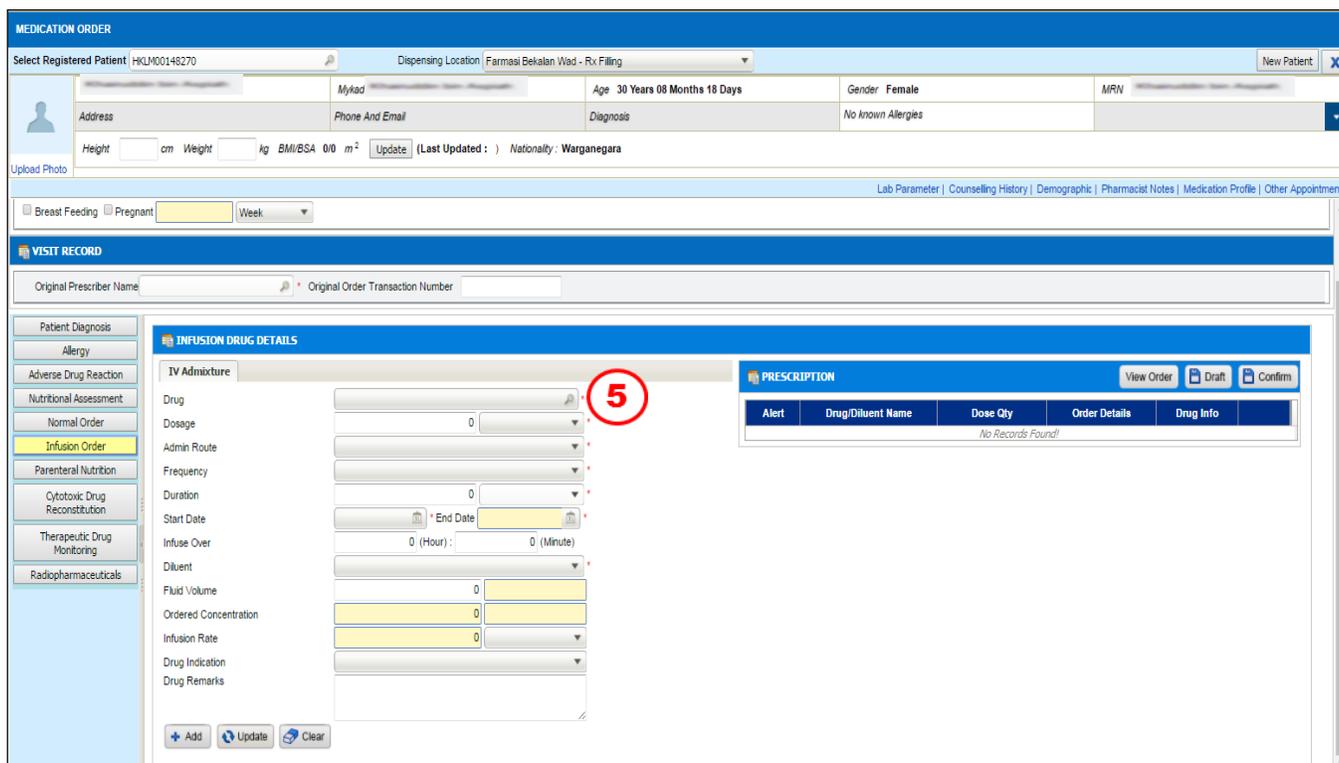
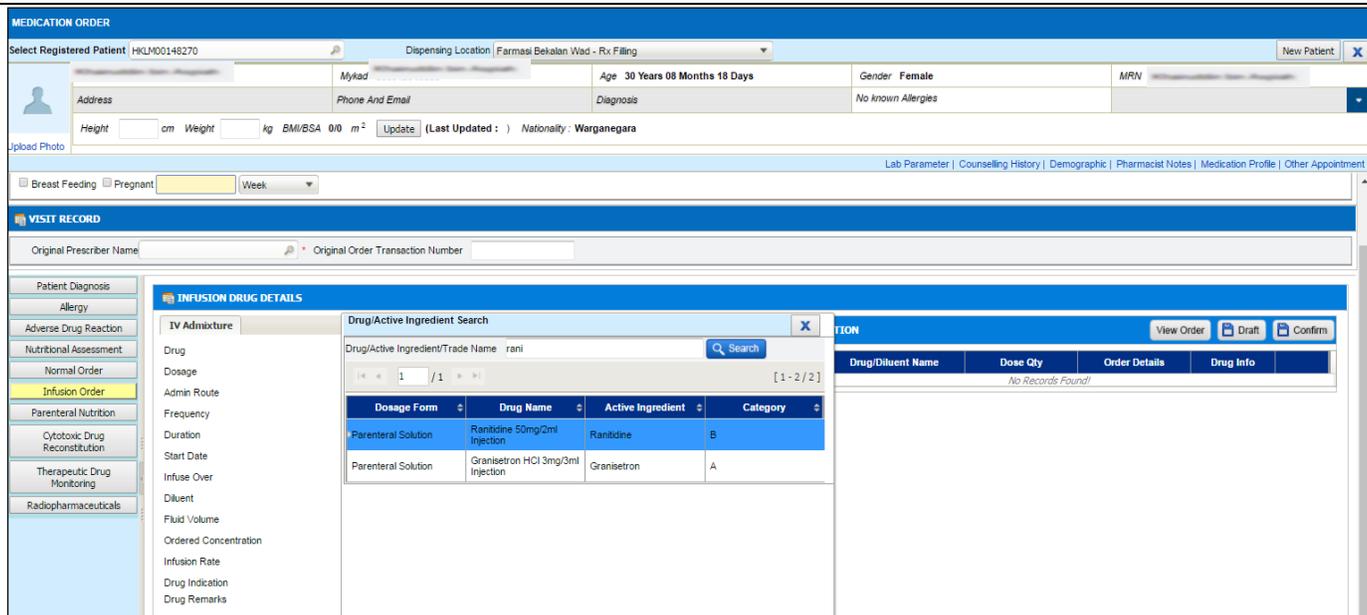


Figure 3.2-3 Medication Order

STEP 5

Click on the  button new window will display as per Figure 3.2-4



MEDICATION ORDER

Select Registered Patient: HKLM00148270 | Dispensing Location: Farmasi Bekalan Wad - Rx Filling | New Patient: X

Address: Mykad | Age: 30 Years 08 Months 18 Days | Gender: Female | MRN: [Redacted]

Height: [] cm | Weight: [] kg | BMI/BSA: 0/0 m² | Update | (Last Updated:) | Nationality: Warganegara

VISIT RECORD

Original Prescriber Name: [] | Original Order Transaction Number: []

INFUSION DRUG DETAILS

IV Admixture | Drug/Active Ingredient Search

Drug/Active Ingredient/Trade Name: rani | Search

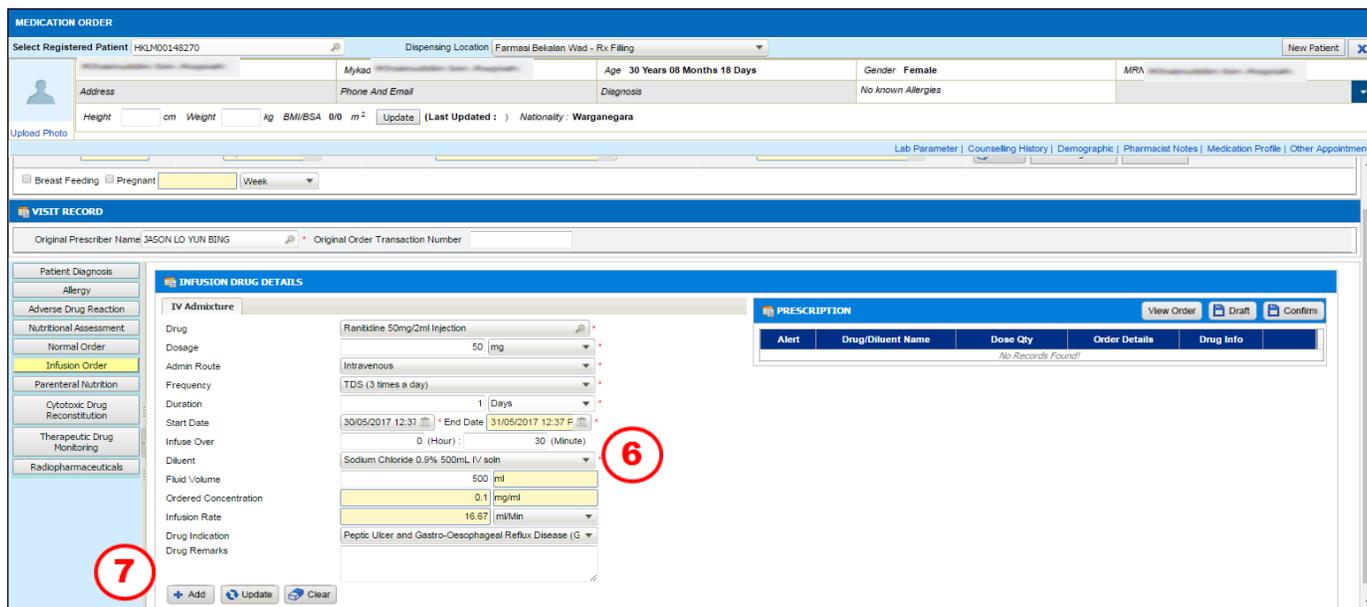
Dosage Form	Drug Name	Active Ingredient	Category
Parenteral Solution	Ranitidine 50mg/2ml Injection	Ranitidine	B
Parenteral Solution	Granisetron HCl 3mg/3ml Injection	Granisetron	A

Buttons: View Order, Draft, Confirm

Figure 3.2-4 Drug/Active Ingredient Search

Note

Double click on the selected drug.



MEDICATION ORDER

Select Registered Patient: HKLM00148270 | Dispensing Location: Farmasi Bekalan Wad - Rx Filling | New Patient: X

Address: Mykad | Age: 30 Years 08 Months 18 Days | Gender: Female | MRN: [Redacted]

Height: [] cm | Weight: [] kg | BMI/BSA: 0/0 m² | Update | (Last Updated:) | Nationality: Warganegara

VISIT RECORD

Original Prescriber Name: JASON LO YUN BING | Original Order Transaction Number: []

INFUSION DRUG DETAILS

IV Admixture

Drug: Ranitidine 50mg/2ml Injection

Dosage: 50 mg

Admin Route: Intravenous

Frequency: TDS (3 times a day)

Duration: 1 Days

Start Date: 30/05/2017 12:31 | End Date: 31/05/2017 12:37 F

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

Diluent: Sodium Chloride 0.9% 500mL IV soln

Fluid Volume: 500 ml

Ordered Concentration: 0.1 mg/ml

Infusion Rate: 16.67 ml/Min

Drug Indication: Peptic Ulcer and Gastro-Oesophageal Reflux Disease (G

Buttons: Add, Update, Clear

PRESCRIPTION

Alert | Drug/Diluent Name | Dose Qty | Order Details | Drug Info

Figure 3.2-5 Infusion Drug Details

Note

- End Date is defaulted by the system according to start date and duration.
- Information on IV Admixture screen will be automatically displayed and calculated based on the master setup.
- Infusion Rate = Fluid Volume/ Infuse Over
- Strength = Dosage / Fluid Volume.

STEP 6

Select diluents from drop down menu

STEP 7

Click on the button to add drug in prescription section as per Figure 3.2-6

Figure 3.2-6 Infusion Drug Details

STEP 8

Click on the button to save the prescription and screen will display one new button as per Figure 3.2-7

STEP 9

Click on the button to confirmed the prescription

Note

- Click on the button to view order details as per Figure 3.2-7.

ORDER DETAILS						
Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status
Ranitidine 50mg/2ml Injection	50 mg	2 ml	0.1 mg/ml, TDS (3 times a day) , 1 Days	3 amp		DRAFT
Sodium Chloride 0.9% 500mL IV soln		500 ml		3 bott		

Figure 3.2-7 Order Details

- Click on the button to view prescription details as per Figure 3.2-8.

**Ministry of Health, Malaysia
Hospital Kulim**

Patient Name : [Redacted] Patient ID : [Redacted]
Age : 30 Years 08 Months 18 Days MRN: [Redacted]
Gender : Female Weight:
Location: Ward 3 -Medical Height:
Prescription #: W30000218417 Order Date/Time: 30/05/2017 01:09 PM
Allergy:

Drug Name	Route	Dosage	Frequency	Start Date	End Date	Duration
Ranitidine 50mg/2ml Injection	Intravenous	50mg	TDS (3 times a day)	30/05/2017	31/05/2017	1Days

Prescribed by [Redacted]
Designation : Pegawai Perubatan

Figure 3.2-8 Prescription Details

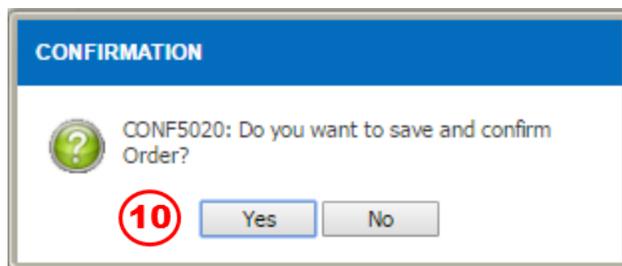


Figure 3.2-9 Confirmation

STEP 10

Click on the  button to save and confirm order and new screen will display as per Figure 3.2-9

VISIT RECORD								
Original Prescriber Name		Original Order Transaction Number						
INFUSION DRUG DETAILS								
PRESCRIPTION								
PROCEED TO DISPENSING Verify Preview Prescription								
Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info	
<div style="border: 1px solid black; padding: 2px;"> 11 </div> Cefazolin Sodium 50mg/2ml Injection Intervention Chloride 0.9% 500mL IV soln	50 mg	2 ml 500 ml	0.1 mg/ml, 1 Days	3 amp 3 bott	Remarks	ORDERED	i	

Figure 3.2-10 Infusion Drug Details

STEP 11

Right click on the  button and select Intervention.

INTERVENTION				
				14 Confirm Close Cancel
PHARMACY REMARKS				
[1 - 12 / 12]				
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 checked="" type="checkbox"/>	12 appropriate Dose	Wrong Dose 13	<input checked="" 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"/>

Figure 3.2-11 Intervention

STEP 12

Select **Intervention Reason** from the table

STEP 13

Select **Intervention Status** as follow:

- a) Accepted
- b) Not Accepted

STEP 14

Click on the  button to confirm **Modify Order**

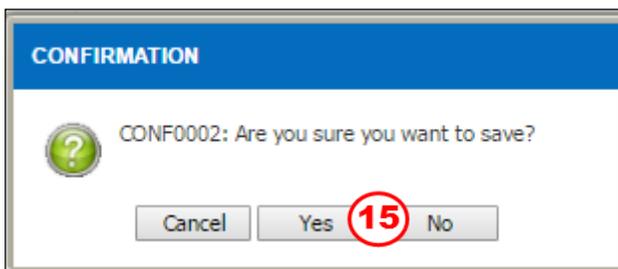


Figure 3.2-12 Confirmation Alert Message

STEP 15

Click on the button to confirm the intervention

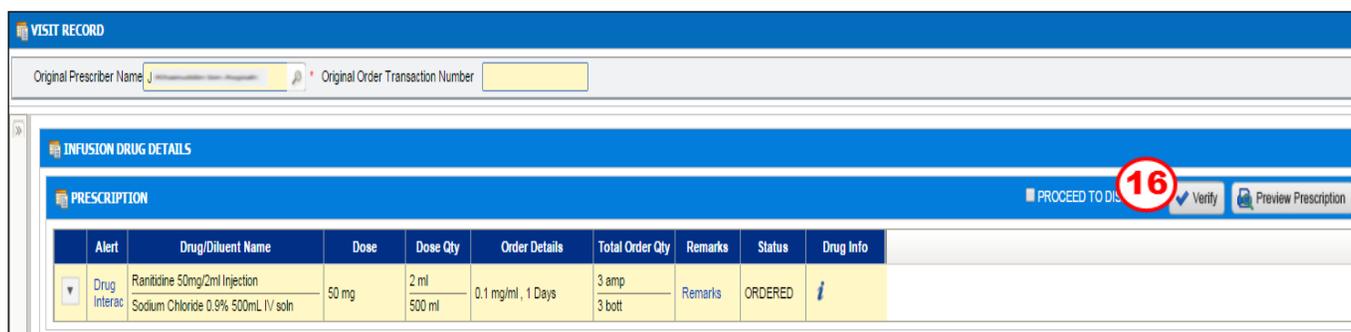


Figure 3.2-13 Medication Order : Verify

STEP 16

Click on the button and will displayed alert message as per Figure 3.2-14

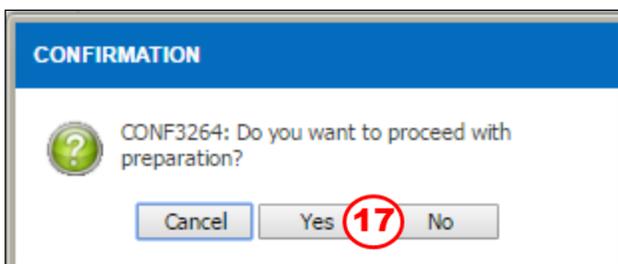


Figure 3.2-14 Alert Confirmation Message

STEP 17

Click on the button to proceed verification and IV Preparation screen will be displayed as per Figure 3.2-15

IV PREPARATION

Mykad
Age 30 Years 08 Months 18 Days
Gender Female
MRN

Address
Phone And Email
Diagnosis
No known Allergies

Height cm Weight kg BMI/BSA 0.0 m² (Last Updated :)
Nationality: Warganegara

Encounter No: 0003 Admission Date: 30/05/2017 Visit Location: Ward 3 -Medical Order By: Transcribed By:
Lab Parameter | Counselling History | Demographic | Pharmacist Notes | Medication Profile | Other Appointment

PHARMACY ORDER

Supervised By

PRESCRIPTION

1 / 1
[1 - 1 / 1]

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
▼ Drug Interaction	Ranitidine 50mg/2ml Injection Sodium Chloride 0.9% 500mL IV soln	50 mg	2 ml 500 ml	0.1 mg/ml, TDS (3 times a day) , 1 Days	3 amp 3 bott	3	0 amp 0 bott	3 amp 3 bott	<input type="button" value="Details"/>	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-15 IV Preparation Screen

Note

Alternate Drug

- This function allow user to select different drug with the same active ingredient and same administration route.
Click on the ▼ button to select **Alternate Drug/ Intervention/ Hold Order**

PHARMACY ORDER

Supervised By

PRESCRIPTION

1 / 1
[1 - 1 / 1]

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
▼ Drug	Ranitidine 50mg/2ml Injection odium Chloride 0.9% 500mL IV soln	50 mg	2 ml 500 ml	0.1 mg/ml, TDS (3 times a day) , 1 Days	3 amp 3 bott	3	0 amp 0 bott	3 amp 3 bott	<input type="button" value="Details"/>	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-16 IV Preparation Screen

ALTERNATE DRUG DETAILS

Location: UNIT FARMASI BEKALAN WAD	Ordered Drug Code: J01GB03183P3003XX
Dosage Form: Parenteral Solution	Ordered Drug Description: Gentamicin 80mg/2ml Inj
Route: INF	Alternate Drug Name: Gentamicin 20mg/2ml Inj
Order Details: 80 mg, OD, 1 Days	Alternate Drug Order Qty (Total Order Qty: 0.00)

BATCH DETAIL

No record found

DILUENT BATCH DETAIL

Diluent: Sodium Chloride 0.9% 100mL IV soln	Diluent Order Qty (Total Order Qty: 1 bott)
0 bottle	

No	Drug Name	Dosage Form	Route	Batch	Expiry Date	Available Qty	Units	Qty to Dispense
1	Sodium Chloride 0.9% 100mL IV soln	Parenteral Solution	INF	DMHPSF14	31/03/2015	9964	bottle	0

Reason	Remark
--------	--------

Figure 3.2-17 Alternate Drug Details

Note

- Alternate drug screen consist of three (3) section which are:
 - a) **Alternate Drug Details**
 - Location, Dosage Form, Route, Order Details, Ordered Drug Code, Ordered Drug Description, Alternate Drug Name and Alternate Drug Order Qty(Total Order Qty: 0.00) will be retrieve from medication order and drug master setup.
 - Select **Alternate Drug Name** from dropdown box.
 - b) **Batch Details**
 - Selected drug name will be listed based on drug master setup.
 - c) **Diluent Batch Detail**
 - Selected drug name will be listed based on drug master setup.
 - Select **Diluent** from dropdown box.
 - Type **Qty to Dispense**
- Click on the  button to confirm alternate.
- After did alternate, selected drug will be change to green colour as figure 3.2-18.

PRESCRIPTION													
Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interact	Heparin Sodium 5000 IU/ml Inj Sodium Chloride 0.9% 500mL IV soln	5000 IU		10 IU/ml, Single dose, 1 Days	0 vial 0 bott	1	0 vial 0 bott	1 vial 1 bott		0 vial 0 bott	Remarks	VERIFIED	Drug Info
	Heparin Sodium 50 IU/5ml Inj Sodium Chloride 0.9% 500mL IV soln	500 ml 500 ml			100 amp 1 bott		1 amp 1 bott		Details				

Figure 3.2-18 Alternate Drug Details

IV PREPARATION

[Print Original Prescription](#)



Mykad	Age 39 Years 05 Months 18 Days	Gender Female	MRN
Address	Phone And Email	Diagnosis	No known Allergies

Height 158 cm Weight 57 kg BMI/BSA 22.8 / 1.6 m² Update (Last Updated : 27/10/2014)

Encounter No: 0847
Admission Date: 27/10/2014
Visit Location: WAD 9 (MED - P)
Order By: Dr.
Transcribed By:

PHARMACY ORDER

Supervised By:

PRESCRIPTION

[Prepare](#)
[Worksheet](#)
[Label](#)

[1 - 1 / 1]

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
▼	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL	80 mg	2 ml 100 ml	0.8 mg/ml, OD , 1 Days	1 amp 1 bott	1	0 amp 0 bott	1 amp 1 bott	<input type="checkbox"/> Details	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Alternate Drug
Intervention
Hold Order

Figure 3.2-19 IV Preparation

Note

Intervention

- This function allow user to modify drugs details frequency, duration and form. This function is available in verification screen and preparation screen.
- Right click on the ▼ button and select **Intervention**

INTERVENTION

[History](#)
[Confirm](#)

PHARMACY REMARKS

[1 - 12 / 12]

Intervention Reason	Remarks	Intervention Accepted	Intervention Not Accepted
<input type="checkbox"/> Authenticity	<input type="text"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Contraindication	<input type="text"/>	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Drug Interaction	<input type="text"/>	<input type="radio"/>	<input type="radio"/>

MODIFY ORDER

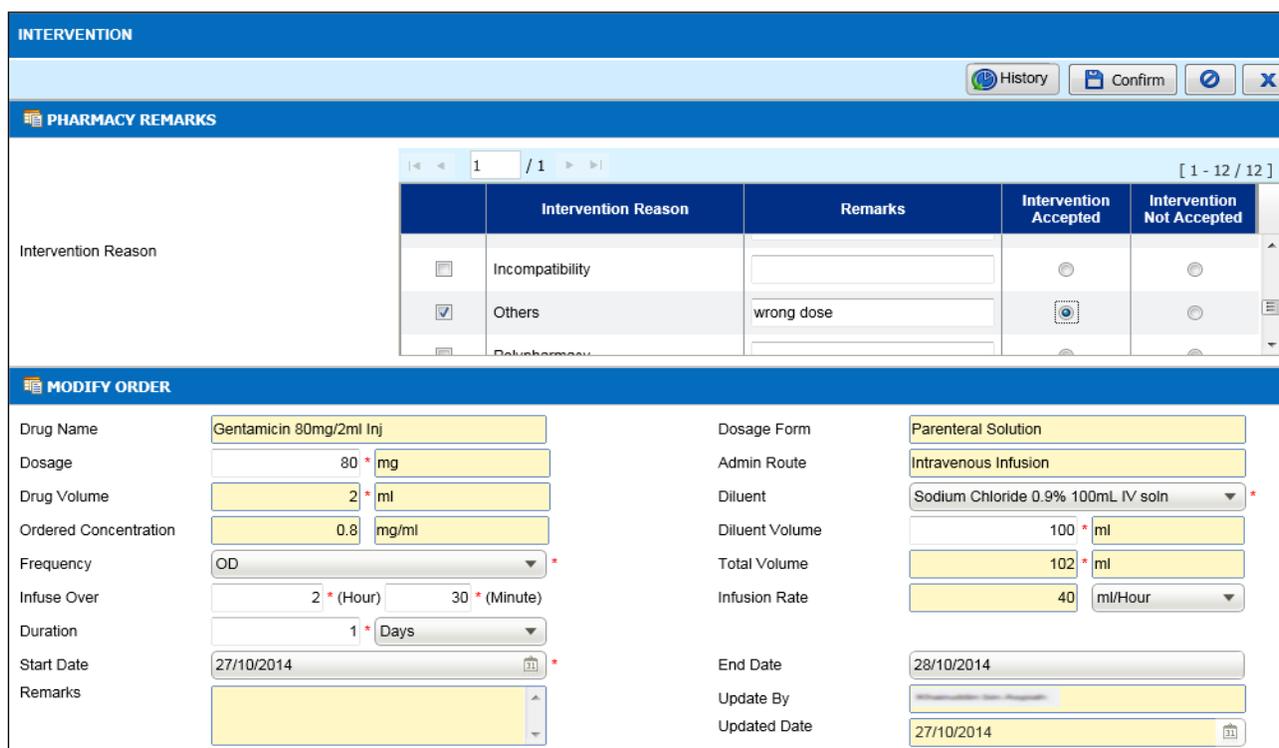
Drug Name: Gentamicin 80mg/2ml Inj	Dosage Form: Parenteral Solution
Dosage: 80 * mg	Admin Route: Intravenous Infusion
Drug Volume: 2 * ml	Diluent: Sodium Chloride 0.9% 100mL IV soln *
Ordered Concentration: 0.8 mg/ml	Diluent Volume: 100 * ml
Frequency: OD *	Total Volume: 102 * ml
Infuse Over: 0 * (Hour) 30 * (Minute)	Infusion Rate: 3.33 ml/Min
Duration: 1 * Days	
Start Date: 27/10/2014	End Date: 28/10/2014
Remarks:	Update By:
	Updated Date: 27/10/2014

Figure 3.2-20 Intervention

Note

Select **Intervention Reason** and enter remarks from the table

- Authenticity
- Contraindication
- Drug Interaction
- Inappropriate Duration
- Inappropriate Frequency
- Incompatibility
- Others
- Polypharmacy
- Suggest to Monitor Vital Signs/lab Result
- Wrong Patient



INTERVENTION

History Confirm [Refresh] [Close]

PHARMACY REMARKS

1 / 1 [1 - 12 / 12]

Intervention Reason	Remarks	Intervention Accepted	Intervention Not Accepted
<input type="checkbox"/> Incompatibility		<input type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/> Others	wrong dose	<input checked="" type="radio"/>	<input type="radio"/>
<input type="checkbox"/> Delusory...		<input type="radio"/>	<input type="radio"/>

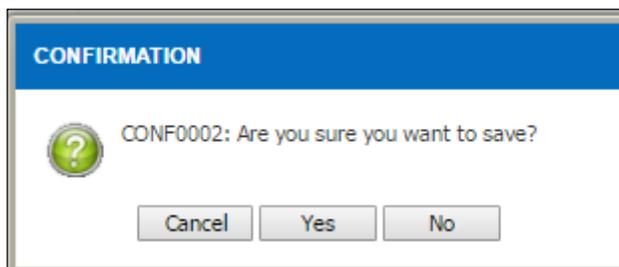
MODIFY ORDER

Drug Name	Gentamicin 80mg/2ml Inj	Dosage Form	Parenteral Solution
Dosage	80 * mg	Admin Route	Intravenous Infusion
Drug Volume	2 * ml	Diluent	Sodium Chloride 0.9% 100mL IV soln *
Ordered Concentration	0.8 mg/ml	Diluent Volume	100 * ml
Frequency	OD *	Total Volume	102 * ml
Infuse Over	2 * (Hour) 30 * (Minute)	Infusion Rate	40 ml/Hour
Duration	1 * Days	End Date	28/10/2014
Start Date	27/10/2014	Update By	
Remarks		Updated Date	27/10/2014

Figure 3.2-21 Intervention

Note

- Select on **Accepted** radio button
- Pharmacist will select the **Intervention Status** radio button after confirming the intervention status from prescriber.



CONFIRMATION

CONF0002: Are you sure you want to save?

Cancel Yes No

Figure 3.2-22 Alert Confirmation Message

- Click on the  button to view intervention history listing.

INTERVENTION REASON HISTORY LISTING			
Date/Time	Intervention Reason	Remarks	Updated By
27/10/2014 05:06 PM	Others	wrong drugs	Suraya Abdul Halim

Figure 3.2-23 Intervention Reason History Listing

IV PREPARATION

Print Original Prescription

Mykad: [Mykad] Age: 39 Years 05 Months 18 Days Gender: Female MRN: [MRN]

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

Height: 158 cm Weight: 57 kg BMI/BSA: 22.8 / 1.6 m² Update (Last Updated : 27/10/2014)

Lab Results Counselling History Demographic Pharmacist Notes Medication Profile Other Appointment

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. [Order By] Transcribed By: [Transcribed By]

PHARMACY ORDER

Supervised By: [Supervised By]

PRESCRIPTION Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interac.	Gentamicin 80mg/2ml Inj	80 mg	2 ml / 100 ml	0.8 mg/ml, OD, 1 Days	1 amp / 1 bott	1	0 amp / 0 bott	1 amp / 1 bott	Details	0 amp / 0 bott	Remarks	VERIFIED	Drug Info

Alert dropdown: Drug Interac., Alternate Drug, Intervention, Hold Order

Figure 3.2-24 IV Preparation

Note

Hold Order

- These functions allow Pharmacist to hold medication from being prepared or dispense; may resume the medication order to continue dispensing.
- Right click on the  button and select **Hold Order** and new screen will be displayed as per Figure 3.2-27.

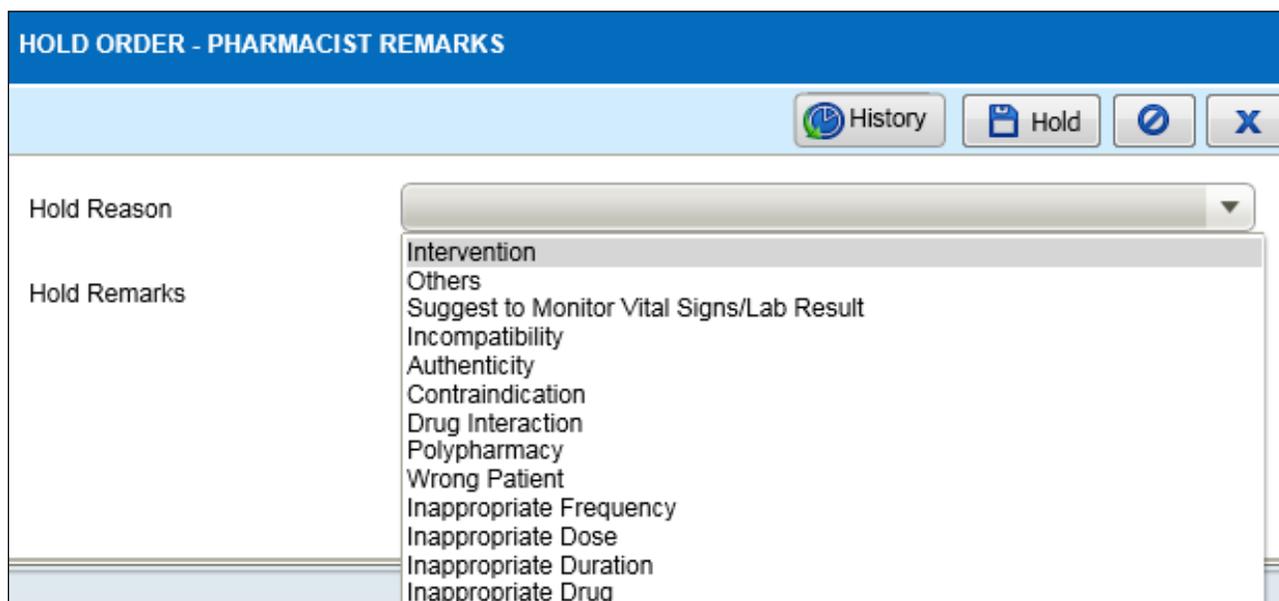
HOLD ORDER - PHARMACIST REMARKS

History Hold

Hold Reason: [Dropdown]

Hold Remarks: [Text Area]

Figure 3.2-25 Hold Order-Pharmacist Remarks



HOLD ORDER - PHARMACIST REMARKS

History Hold [Refresh] [Close]

Hold Reason: [Dropdown Menu]

Hold Remarks: [Text Area]

Dropdown Menu Options:

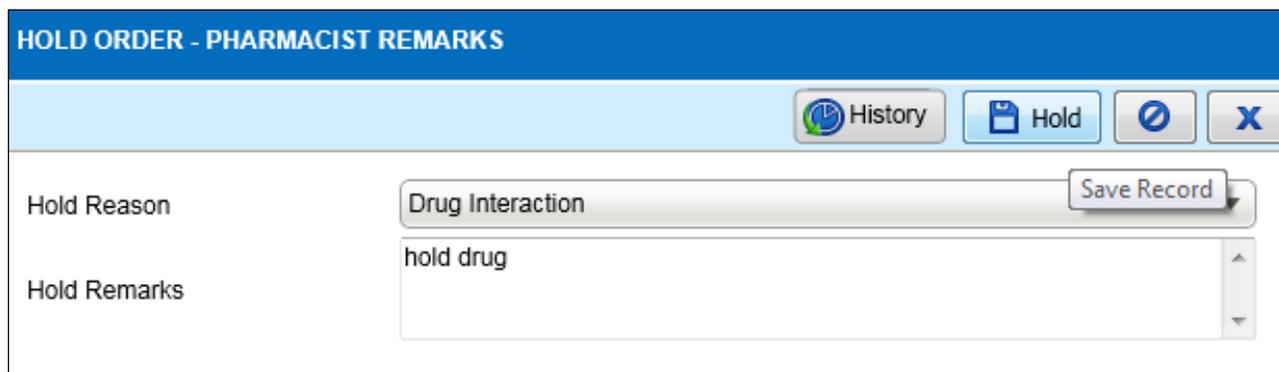
- Intervention
- Others
- Suggest to Monitor Vital Signs/Lab Result
- Incompatibility
- Authenticity
- Contraindication
- Drug Interaction
- Polypharmacy
- Wrong Patient
- Inappropriate Frequency
- Inappropriate Dose
- Inappropriate Duration
- Inappropriate Drug

Figure 3.2-26 Hold Order-Pharmacist Remarks

Note

Select **Hold Reason** from drop down 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



HOLD ORDER - PHARMACIST REMARKS

History Hold [Refresh] [Close]

Hold Reason: Drug Interaction [Save Record]

Hold Remarks: hold drug

Figure 3.2-27 Hold Order-Pharmacist Remarks

Note

Click on the  button to proceed hold transaction

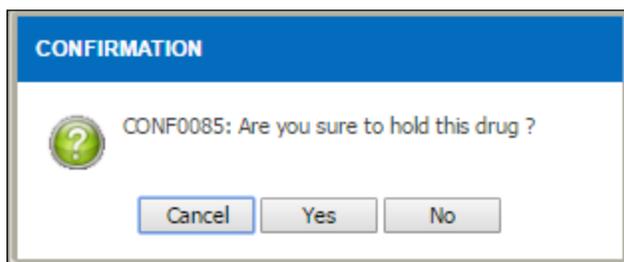
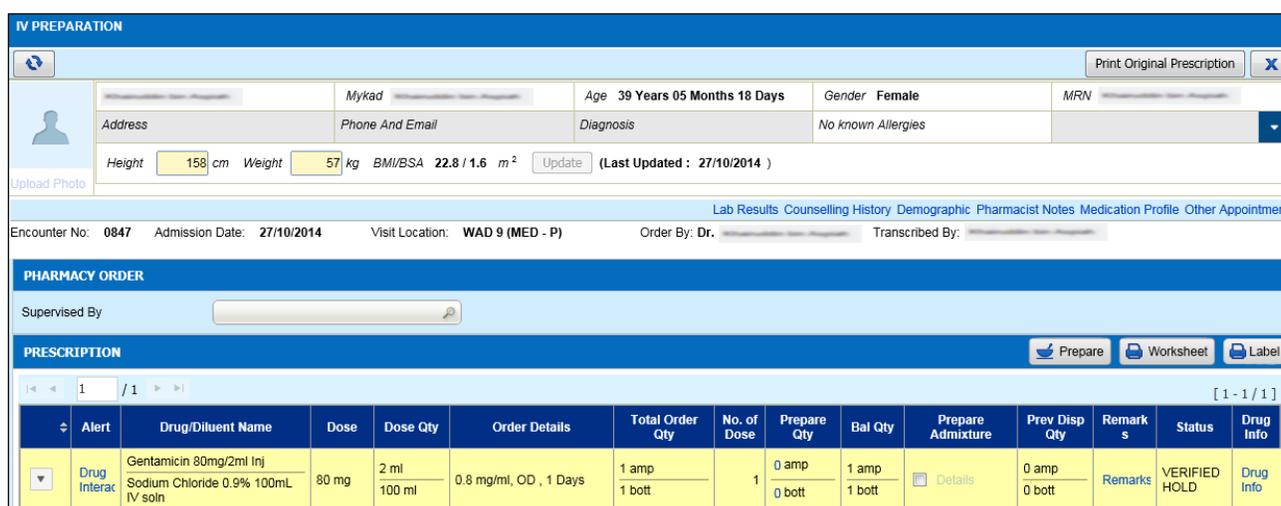


Figure 3.2-28 Alert Confirmation Message

- Click on the  button to confirm the hold order.



IV PREPARATION

Print Original Prescription

Mykad Age 39 Years 05 Months 18 Days Gender Female MRN

Address Phone And Email Diagnosis No known Allergies

Height 158 cm Weight 57 kg BMI/BSA 22.8 / 1.6 m² Update (Last Updated : 27/10/2014)

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. Transcribed By:

PHARMACY ORDER

Supervised By

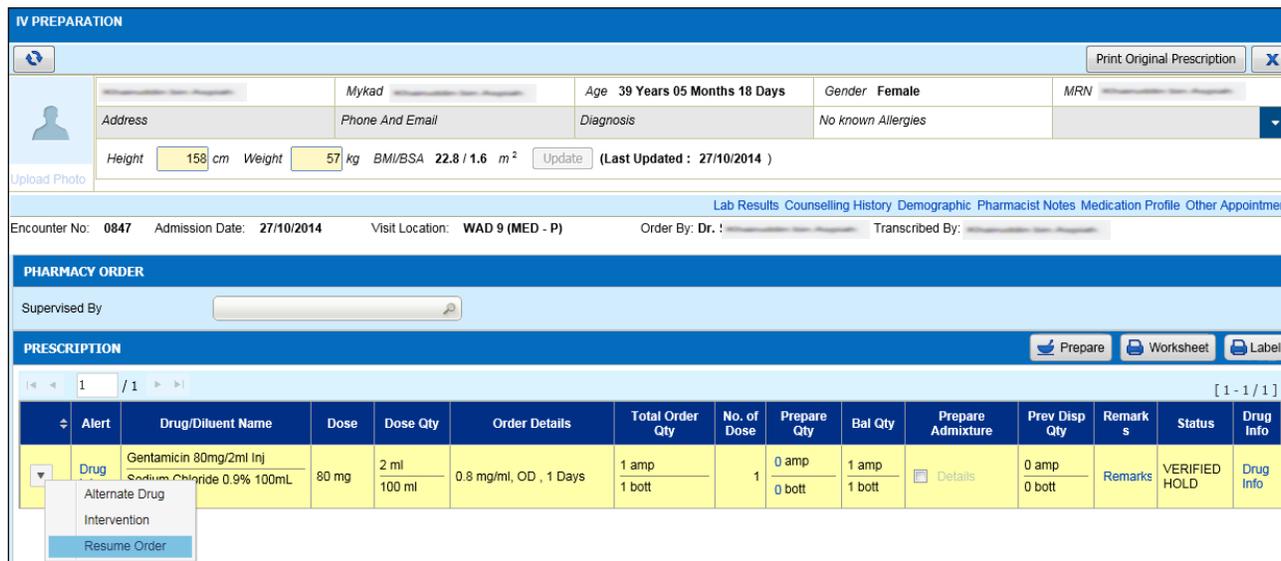
PRESCRIPTION Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interac	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	80 mg	2 ml 100 ml	0.8 mg/ml, OD , 1 Days	1 amp 1 bott	1	0 amp 0 bott	1 amp 1 bott	Details	0 amp 0 bott	Remarks	VERIFIED HOLD	Drug Info

Figure 3.2-29 IV Preparation

Note

- Status will be displayed as **VERIFIED HOLD**.



IV PREPARATION

Print Original Prescription

Mykad Age 39 Years 05 Months 18 Days Gender Female MRN

Address Phone And Email Diagnosis No known Allergies

Height 158 cm Weight 57 kg BMI/BSA 22.8 / 1.6 m² Update (Last Updated : 27/10/2014)

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. Transcribed By:

PHARMACY ORDER

Supervised By

PRESCRIPTION Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interac	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	80 mg	2 ml 100 ml	0.8 mg/ml, OD , 1 Days	1 amp 1 bott	1	0 amp 0 bott	1 amp 1 bott	Details	0 amp 0 bott	Remarks	VERIFIED HOLD	Drug Info

Alternate Drug Intervention
Resume Order

Figure 3.2-30 IV Preparation

Note

Resume Order

Click on the  button and select **Resume Order**

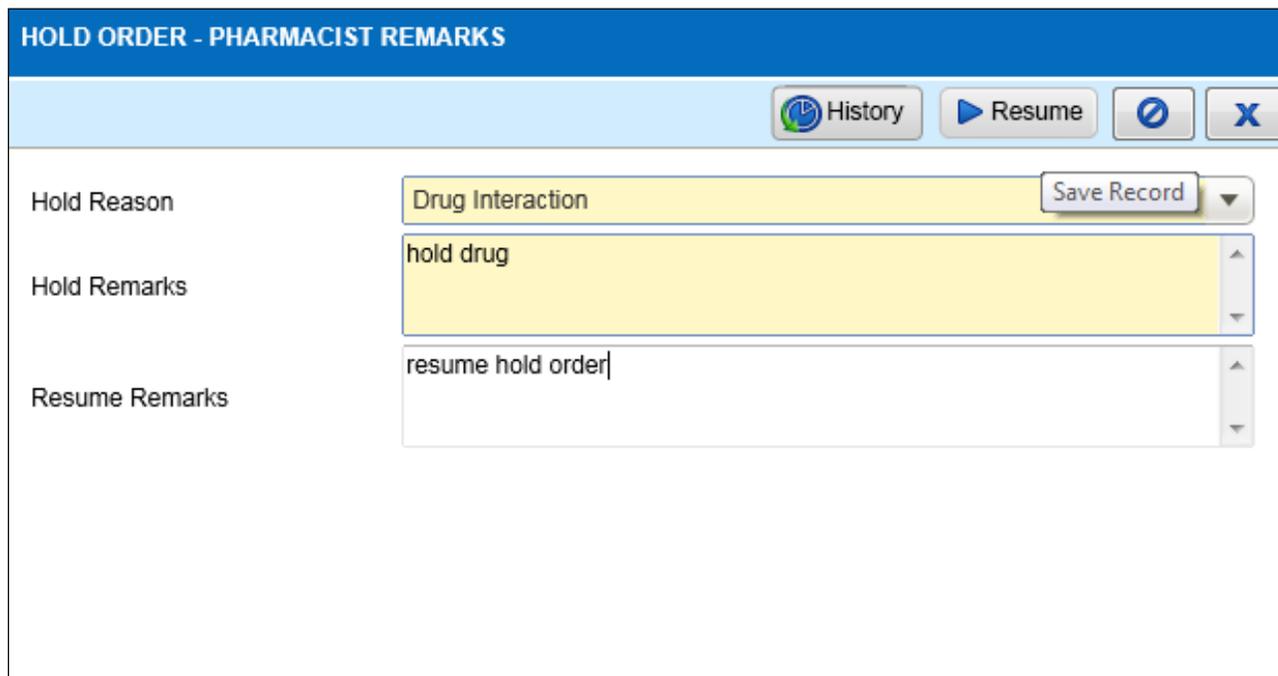


Figure 3.2-31 Hold Order-Pharmacist Remarks

Note

- Click on the  button to resume hold order.
- Enter **Resume Remarks** if required.

Click on the  button to release drug from hold.

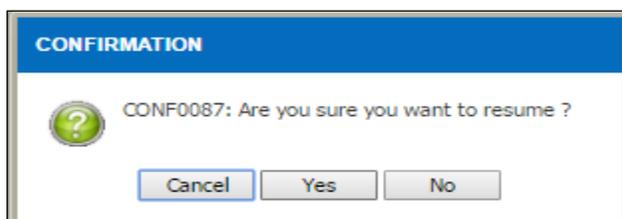


Figure 3.2-32 Alert Confirmation Message

IV PREPARATION

[Print Original Prescription](#)

Mykad: Age: 39 Years 05 Months 18 Days Gender: Female MRN:

Address: Phone And Email: Diagnosis: No known Allergies

Height: cm Weight: kg BMI/BSA: 22.8 / 1.6 m² [Update](#) (Last Updated: 27/10/2014)

[Upload Photo](#)

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

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. Transcribed By:

PHARMACY ORDER

Supervised By:

PRESCRIPTION

[Prepare](#) [Worksheet](#) [Label](#)

[1 - 1 / 1]

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
▼	Drug Interaction	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	80 mg	2 ml 100 ml	0.8 mg/ml, OD , 1 Days	1 amp 1 bott	18	1 amp 1 bott	1 amp 1 bott	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Double click to view order details

Figure 3.2-33 IV Preparation

STEP 18

Click on **Prepare Qty** "0" hyperlink to do allocation from displayed window as per figure 3.2-33

ITEM BATCH DETAILS

[Print](#) [Refresh](#) [Close](#)

Drug Code: Default SKU:

Drug Name: Dispense UOM:

Order Details:

BATCH DETAIL

[1 - 1 / 1]

Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
130180T	01/01/2016	9959	<input type="text" value="1"/>	<input type="text" value="1"/>

Total Location Quantity: Total Allocated Quantity:

Figure 3.2-34 Item Batch Details

STEP 19

Click on selected Batch and enter **Allocate Qty**

ITEM BATCH DETAILS 20 22

Drug Code: J01GB03183P3003XX Default SKU: ampoule Save Record
 Drug Name: Gentamicin 80mg/2ml Inj Dispense UOM: ampoule
 Order Details: 80 mg, OD, 1 Days

BATCH DETAIL

1 / 1 [1 - 1 / 1]

Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
130180T	01/01/2016	9959	1	1

Total Location Quantity: 9998 Total Allocated Quantity: 1

Figure 3.2-35 Item Batch Details

STEP 20

Click on the button to proceed allocation

CONFIRMATION

CONF0002: Are you sure you want to save?

Cancel Yes 21 No

Figure 3.2-36 Alert Confirmation Message

STEP 21

Click on the button

STEP 22

Click on the button to close window

IV PREPARATION Print Original Prescription X

Mykad: Age: 39 Years 05 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: 27/10/2014)

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. Syafiq Affandi Baharin Transcribed By: Suraya Abdul Halim

PHARMACY ORDER

Supervised By:

PRESCRIPTION Prepare Worksheet Label

1 / 1 [1 - 1 / 1]

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	23 Prepare mixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interac	Gentamicin 80mg/2ml Inj	80 mg	2 ml / 100 ml	0.8 mg/ml, OD, 1 Days	1 amp / 1 bott	1	1 amp / 1 bott	1 amp / 1 bott	<input checked="" type="checkbox"/> Details	0 amp / 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-37 IV Preparation

STEP 23

Select on the **Details** checkbox on Prepare Admixture column

Note

After select the checkbox pop window will displayed as Figure 3.2-38

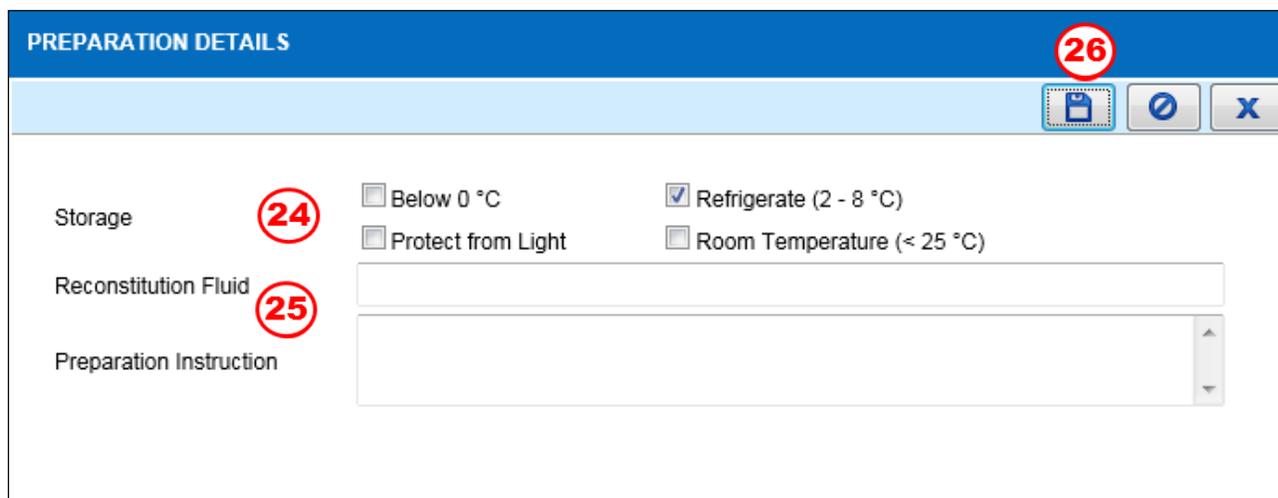


Figure 3.2-38 Preparation Details

STEP 24

Select **Storage** checkbox as **Below/ Refrigerate/ Protected from Light or Room Temperature**

STEP 25

Enter **Reconstitution Fluid & Preparation Instruction** if applicable

STEP 26

Click on the  button to save record

Note

- Storage condition and reconstitution fluid will default value as setup in Drug Master (if any).
- Preparation Instruction also can default in Drug Master.

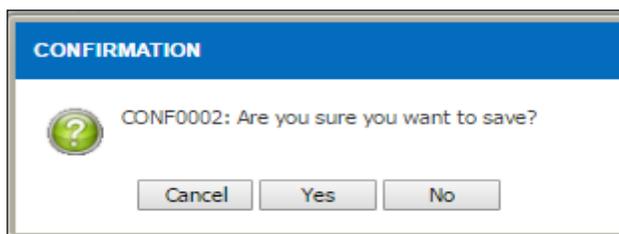


Figure 3.2-39 Alert Confirmation Details

STEP 27

Click on button to proceed worksheet

IV PREPARATION

Print Original Prescription

(Last Updated : 27/10/2014)

Upload Photo

Lab Results Counselling History Demographic Pharmacist Notes Medication Profile Other Appointment

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. Syafiq Affandi Baharin Transcribed By: Suraya Abdul Halim

PHARMACY ORDER

Supervised By

28

PRESCRIPTION

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
<input type="checkbox"/>	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	80 mg	2 ml 100 ml	0.8 mg/ml, OD , 1 Days	1 amp 1 bott	1	1 amp 1 bott	1 amp 1 bott	<input checked="" type="checkbox"/> Details	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-40 IV Preparation

STEP 28

Click on the button to view and print

IV WORKSHEET

MINISTRY OF HEALTH
Hospital Pakar Sultanah Fatimah, Muar

Date of preparation : 27/10/2014 Worksheet Id: 14-10-0001

MRN	HPSF00032191	Name	
ID No		Rx. No.	FBW0000017897
Order Location	WAD 9 (MED - P)	Ordered By	Dr.
Order Date	27/10/2014		

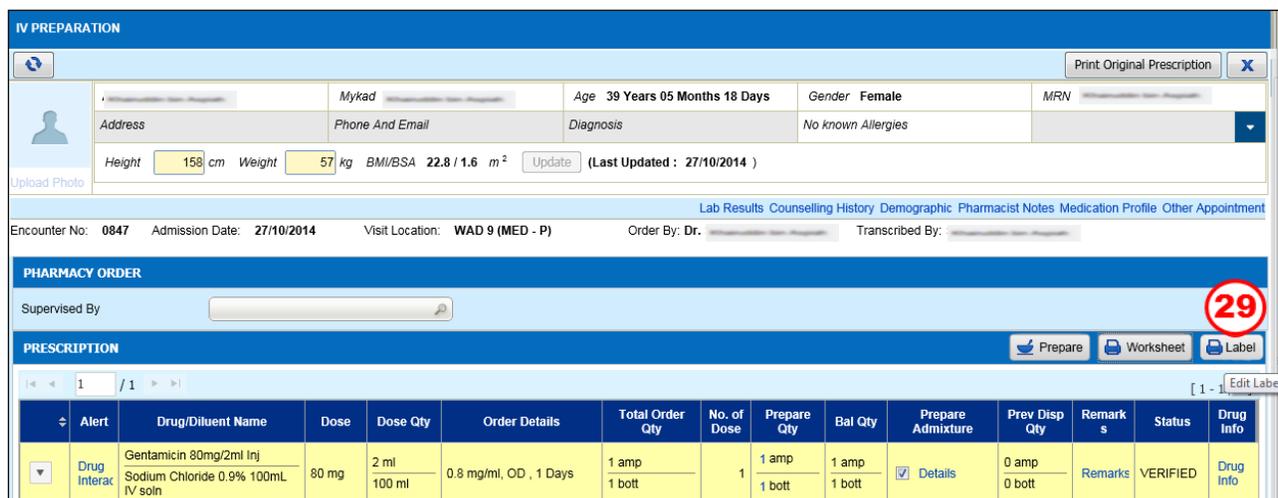
No	ROA	Preparation Name	Material Used								Storage
			Ingredient Name	Dose	Dose Volume	No of Dose	Total Qty	Preparation Qty	Batch No	Expiry Date	
1	INF	Gentamicin 0.8 mg/ml	Gentamicin 80mg/2ml Inj	80 mg	2 ml	1	2 ml	1 amp	130180T	01/01/2016	Refrigerate (2 - 8 °C)
			-								
			Sodium Chloride 0.9% 100mL IV soln								

Instruction: Please Refer to SOP

Reference:

Worksheet generated by	Worksheet & label checked	Prepared by	Final Product Checked by	Supervised by
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Date: 27/10/2014	Date:	Date:	Date:	Date: 27/10/2014

Figure 3.2-41 Sample of IV Worksheet



IV PREPARATION

Print Original Prescription

Mykad: Mykad, Age: 39 Years 05 Months 18 Days, Gender: Female, MRN: [Redacted]

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

Height: 158 cm, Weight: 57 kg, BMI/BSA: 22.8 / 1.6 m², Update (Last Updated: 27/10/2014)

Encounter No: 0847, Admission Date: 27/10/2014, Visit Location: WAD 9 (MED - P), Order By: Dr. [Redacted], Transcribed By: [Redacted]

PHARMACY ORDER

Supervised By: [Redacted]

PRESCRIPTION

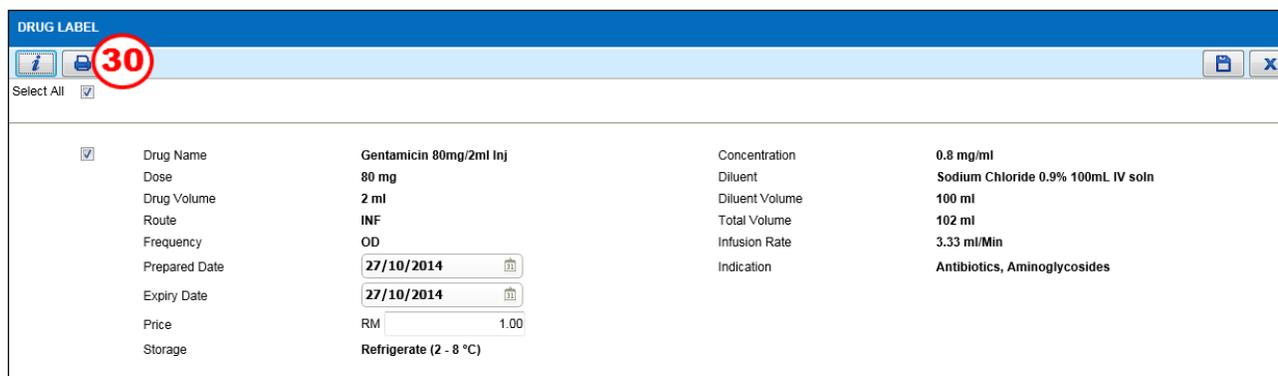
Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interac	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	80 mg	2 ml 100 ml	0.8 mg/ml, OD, 1 Days	1 amp 1 bott	1	1 amp 1 bott	1 amp 1 bott	<input checked="" type="checkbox"/> Details	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-42 IV Preparation

STEP 29

Click on  button and window will displayed as per Figure 3.2.43



DRUG LABEL

Select All

<input checked="" type="checkbox"/>	Drug Name	Gentamicin 80mg/2ml Inj	Concentration	0.8 mg/ml
	Dose	80 mg	Diluent	Sodium Chloride 0.9% 100mL IV soln
	Drug Volume	2 ml	Diluent Volume	100 ml
	Route	INF	Total Volume	102 ml
	Frequency	OD	Infusion Rate	3.33 ml/Min
	Prepared Date	27/10/2014	Indication	Antibiotics, Aminoglycosides
	Expiry Date	27/10/2014		
	Price	RM 1.00		
	Storage	Refrigerate (2 - 8 °C)		

Figure 3.2-43 Drug Label

STEP 30

Click on the  button to print drug label

Note

- Select all checkbox will allow to print all drug label in the selected prescription.
- **Expiry date** can be default based on diluents in Drug Master.
- Click on the  button to save record.

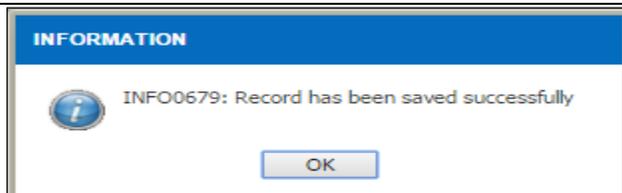


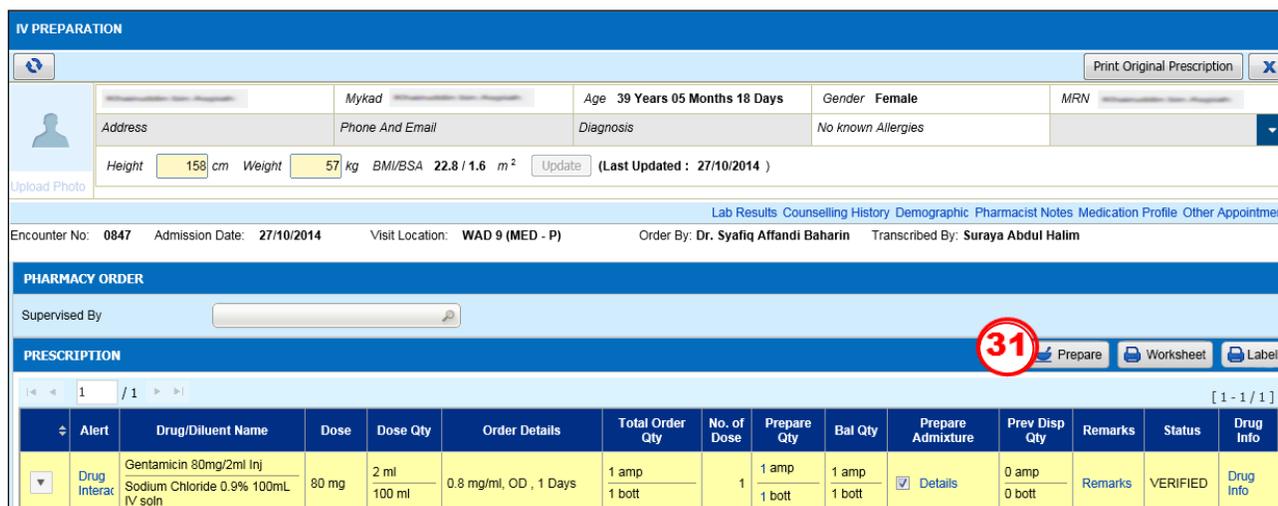
Figure 3.2-44 Alert Information Message

IV Admixture Pharmacy	
Hospital Pakar Sultanah Fatimah, Muar	
Patient Name: [Redacted]	
MRN: [Redacted]	WAD 9 (MED - P)
Drug Name: Gentamicin 80mg/2ml Inj	Bed No:
Dose: 80 mg / 2 ml (Conc: 0.8 mg/ml) in 100 ml Sodium Chloride 0.9% 100mL IV soln	
Route: INF	Freq: OD Infuse Rate: 3.33 ml/Min
Prepared Date: 27/10/2014	Exp Date: 27/10/2014
Indication: Antibiotics, Aminoglycosides	Price: RM 1.00
Storage: Refrigerate (2 - 8 °C)	

Figure 3.2-45 Sample of Drug Label

Note

Sample of IV Admixture Label as per Figure 3.2-46



IV PREPARATION

Print Original Prescription

Mykad: [Redacted] Age: 39 Years 05 Months 18 Days Gender: Female MRN: [Redacted]

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

Height: 158 cm Weight: 57 kg BMI/BSA: 22.8 / 1.6 m² (Last Updated: 27/10/2014)

Encounter No: 0847 Admission Date: 27/10/2014 Visit Location: WAD 9 (MED - P) Order By: Dr. Syafiq Affandi Baharin Transcribed By: Suraya Abdul Halim

PHARMACY ORDER

Supervised By: [Redacted]

PRESCRIPTION 31 Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interac	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	80 mg	2 ml 100 ml	0.8 mg/ml, OD, 1 Days	1 amp 1 bott	1	1 amp 1 bott	1 amp 1 bott	<input checked="" type="checkbox"/> Details	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-46 IV Preparation

STEP 31

Click on the  button to proceed preparation

Note

After allocate quantity **Prepare Qty** column will be retrieve reserved quantity from item batch.

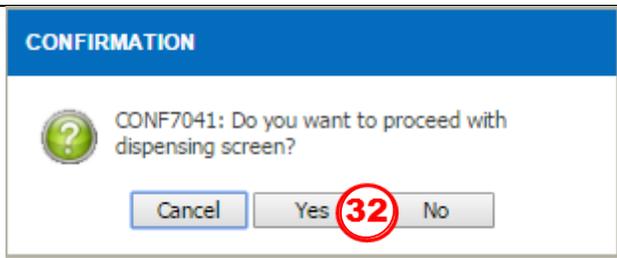
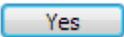


Figure 3.2-47 Alert Confirmation Message

STEP 32

Click on the  button to proceed dispensing and new screen will be displayed as per Figure 3.2-48

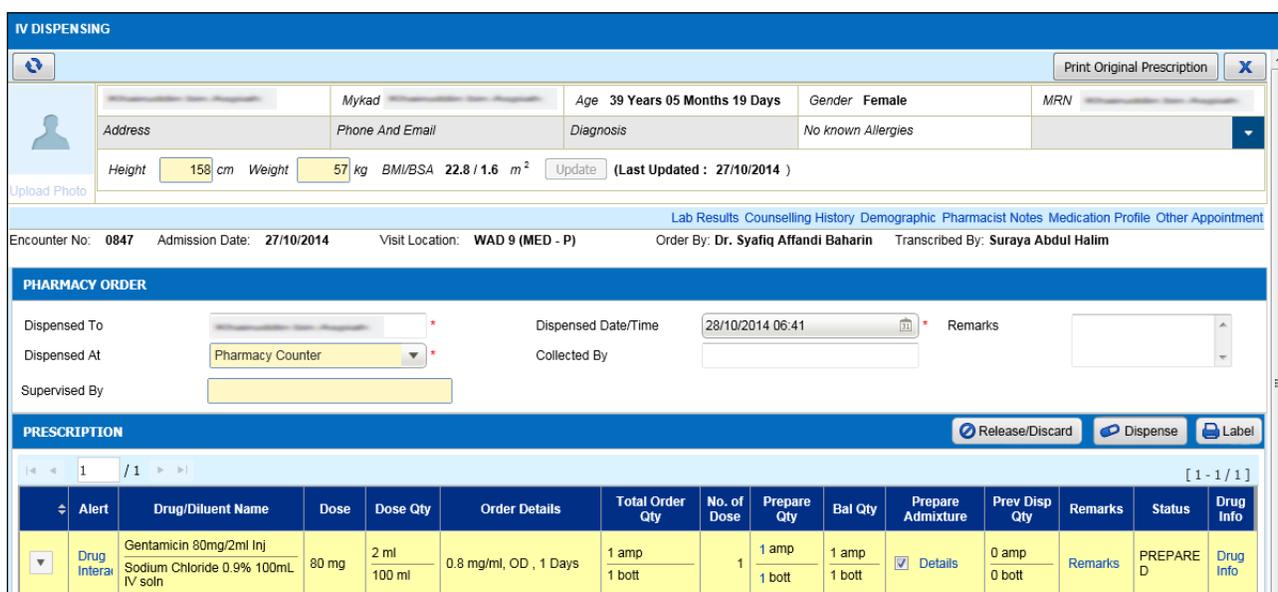


Figure 3.2-48 IV Dispensing

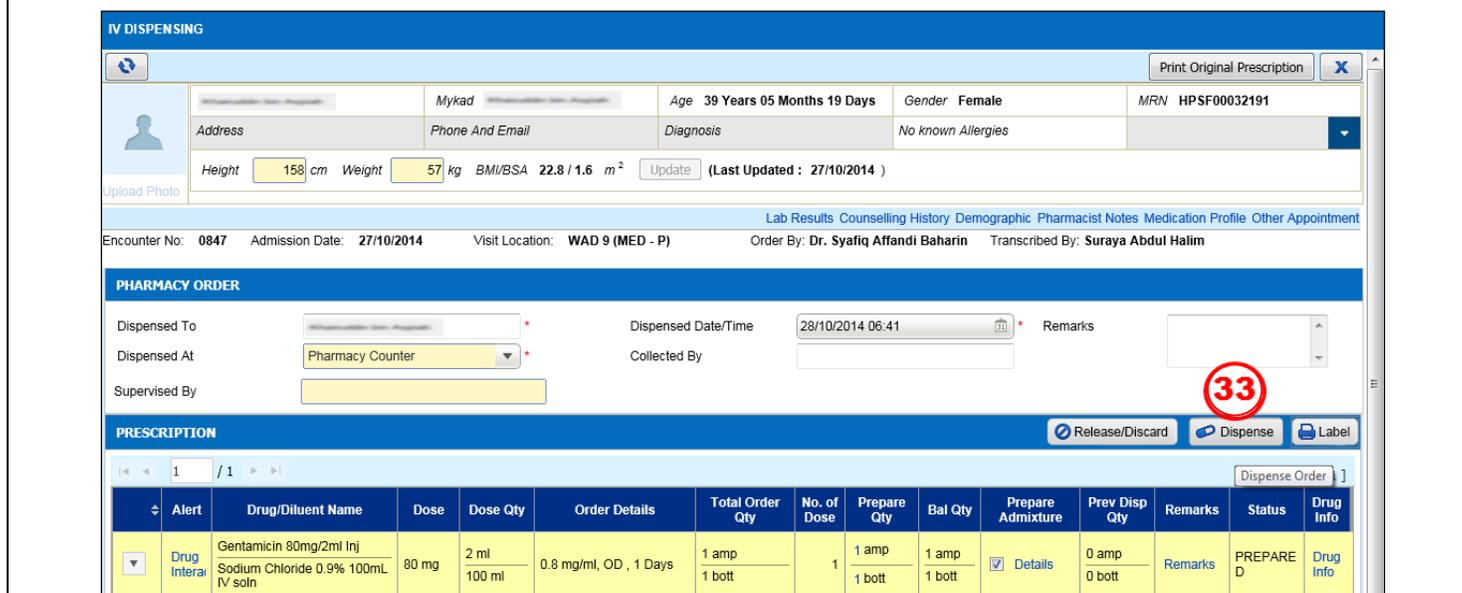


Figure 3.2-49 IV Dispensing

STEP 33

Click on the  button and alert message will be displayed as per Figure 3.2-49

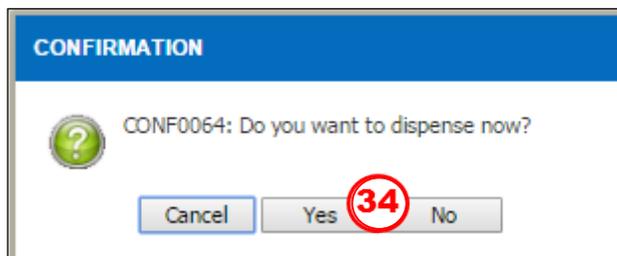
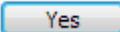


Figure 3.2-50 Alert Confirmation Message

STEP 34

Click on the  button to dispense

3.3 Release / Discard Batch

A function for pharmacist to release/discard the IV admixture that has been prepared back to Preparation stage. When release batch, drug and diluents quantity will be returned back to inventory. When discard batch, drug and diluents quantity will be deducted from inventory.

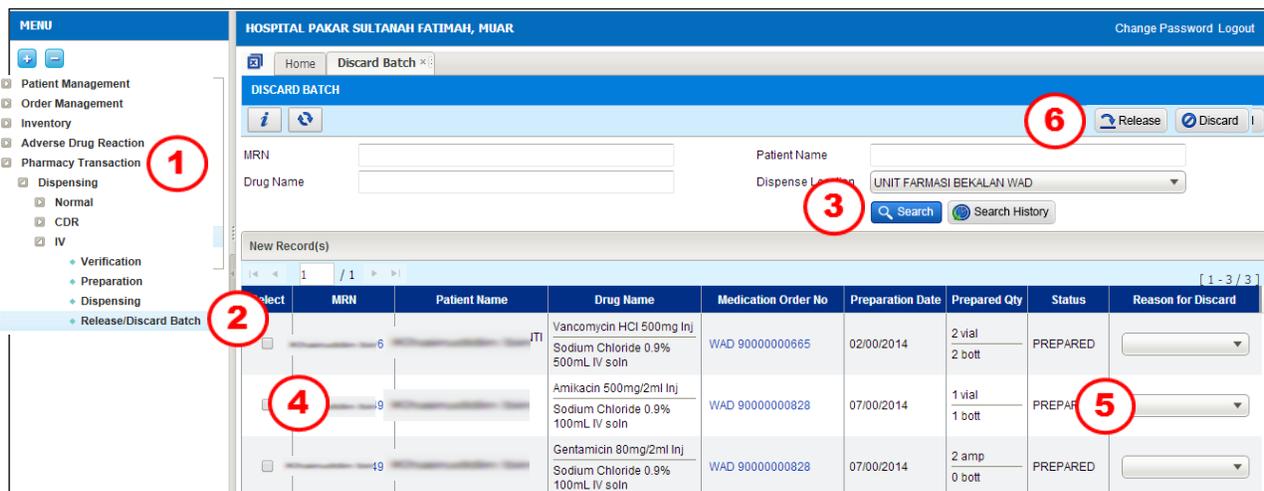


Figure 3.3-1 IV Dispensing : Release/Discard

STEP 1

Click on '**Pharmacy Transaction**' menu follow **by** '**Dispensing**' and select '**IV**' sub-menu

Note

- Various search criteria as provided as below:

No	Field	Description	Remark
a)	MRN	Patient Medical Record Number	Search option: <ul style="list-style-type: none"> • Type the MRN either full or partial: <i>Example : HPSF00001234 or "1234"</i>
b)	Patient Name	Patient Name	Allow to search by patient full name or partial
C)	Drug Name	Drug Name	Allow to search by active ingredient
d)	Location	Patient visit location	Able to filter and search patient by visit location and prescriber's location.

Table 3.3.1

Note

Search result of patient record list will be displayed:

- Select
- MRN
- Patient Name
- Drug Name
- Medication Order No
- Prescription Date

- Prepared Qty
- Status
- Reason For Release / Discard

STEP 2

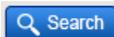
Click on “**Release/Discard Batch**” sub-menu

Note

Various search criteria is provided as below :

- MRN**
- Patient Name**
- Drug Name**
- Dispense Location**

STEP 3

Click on the  button

STEP 4

Select checkbox to discard from the listed drug

STEP 5

Select Reason for Discard from dropdown box. Select either one of these from discard reason drop down menu:-

- Uncollected
- Wrong Allocation
- Change of Regimen
- Patient Refused
- Intervention
- Faulty Product

STEP 6

Click on the  or  button to proceed.

Note

Once drug already released or discarded, drug will be displayed back in Preparation screen for re-allocation of new batch qty.

4.0 Acronyms

Abbreviation	Definition
MOH	Ministry Of Health
PhIS	Pharmacy Information System
CPS	Clinical Pharmacy System
MRN	Medical Record Number
IV	Intravenous
HQ	Headquarters
INJ	Injection
QTY	Quantity
LAB	Laboratory

5.0 Links to Clinical Modules

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