



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

Pharmacy Based

User Manual Infusion Order

Version	: 7th EDITION
Document ID	: PB_U. MANUAL_INFUSION ORDER



PhIS & CPS Project
User Manual – IV (Infusion)



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Reference ID : PB_U. MANUAL_IV-7th EDITION

Application reference: PhIS & CPS v1.7.1



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1.0 Introduction

1.1 Overview of PhIS

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

- Transcribing Infusion Order
- Screening & Verification
- Preparation
- Dispensing
- Release / Discard Batch

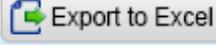
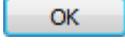
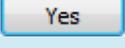
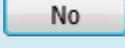
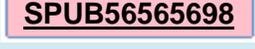
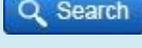
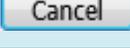
1.3 Organised Sections

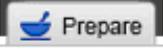
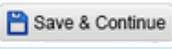
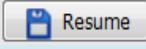
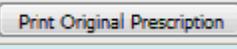
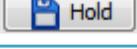
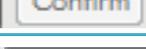
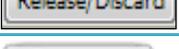
These are the sections within this document:

- 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

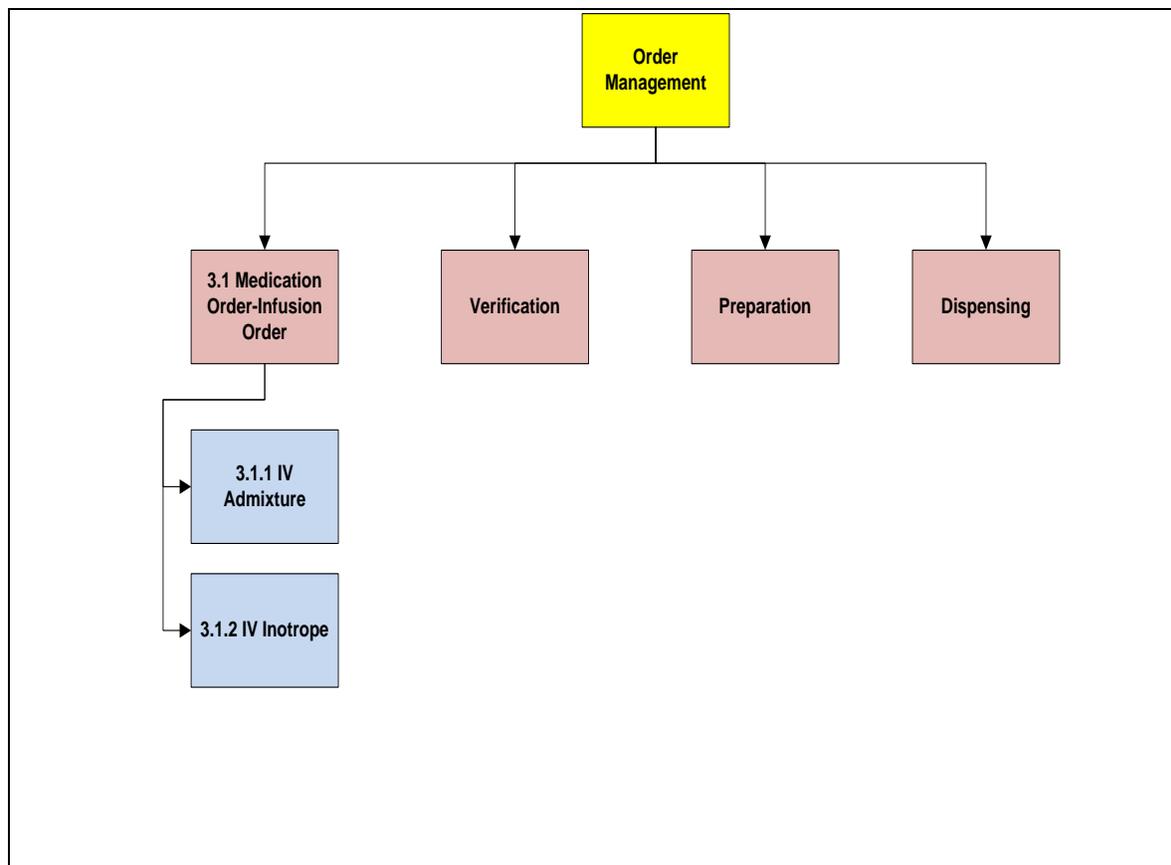


Figure 3.0-1

Functional Description

Admixture comprises of four (4) main functions:

- **Medication Order- Infusion Order**

To prescribe:

- IV Admixture
- Inotrope order

- **Transcribing**

Transcribing 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. Transcribing is combination of 2 process which is ordering and dispensing which consist of ordering, verification, preparation and dispensing in single workflow.

- **Screening and Verification**

Screening and verification function is for user to do the checking and verification on the transcribed prescription ordered from prescriber.

- **Preparation**

The preparation function allow user to allocate drug quantity and batch to be dispense based on the transcribed prescription. This function is integrated with inventory system where the stock will be auto deducted after dispensing process. Drug label can be generated, 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 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 stocked back into inventory

3.1 Transcribe Infusion Order

Infusion order is used for transcribing 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.

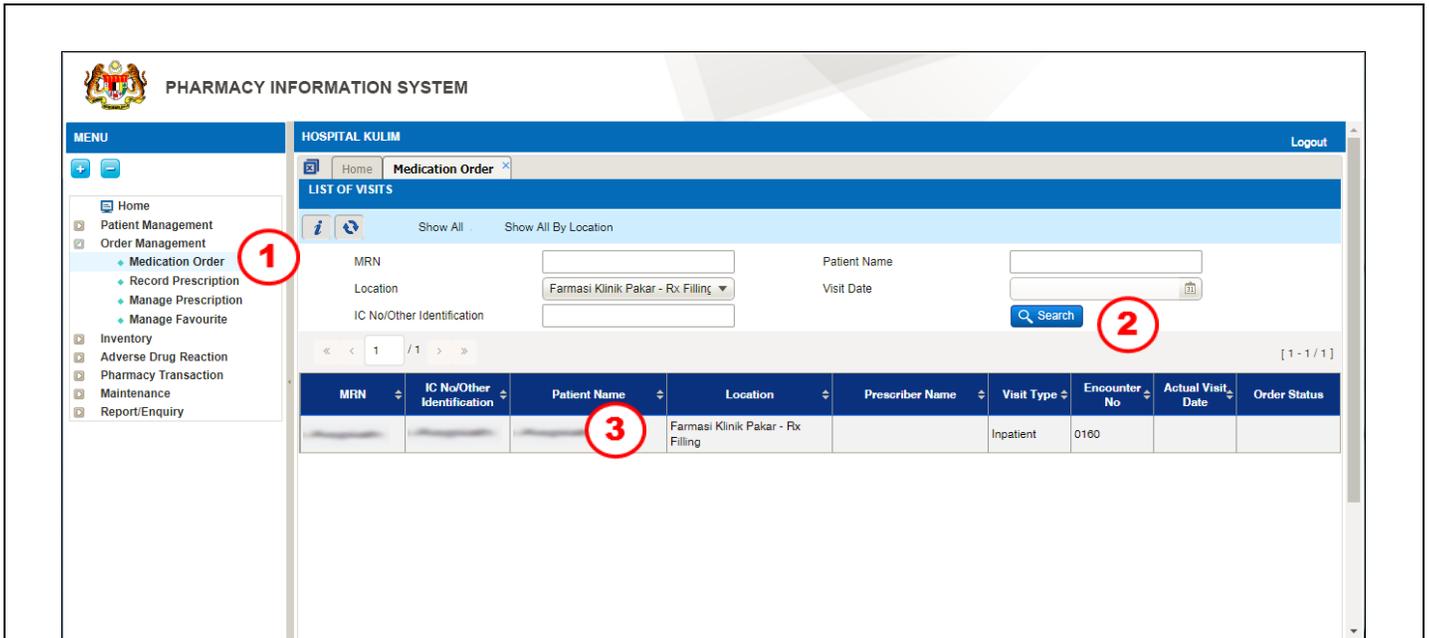


Figure 3.1.1-1 PhIS Home page

STEP 1

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

STEP 2

Click on the  button to search for patient

STEP 3

Double-click on the selected patient and the details will be displayed as per Figure 3.1.1-2

Note

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



Figure 3.1.1-2 Medication Order

STEP 4

Click on the select registered patient and then click on  button to search patient

Note

User able to change dispensing location by click on dropdown Dispensing Location Farmasi Klinik Pakar - Rx Filling button.

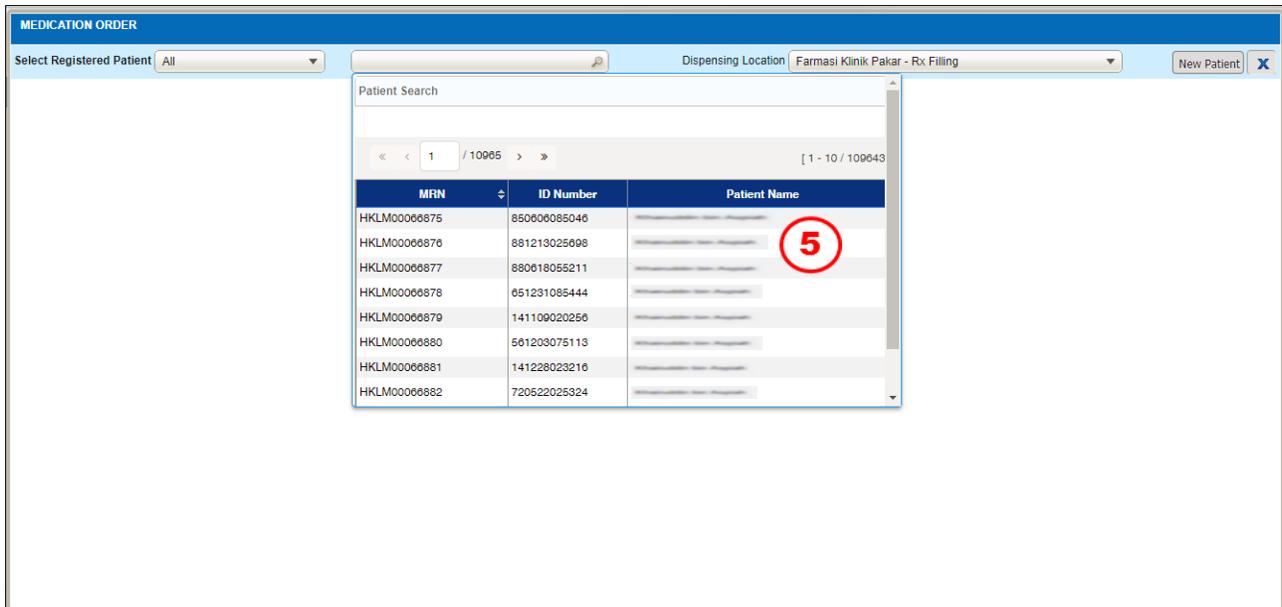


Figure 3.1.1-3 Medication Order

STEP 5

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

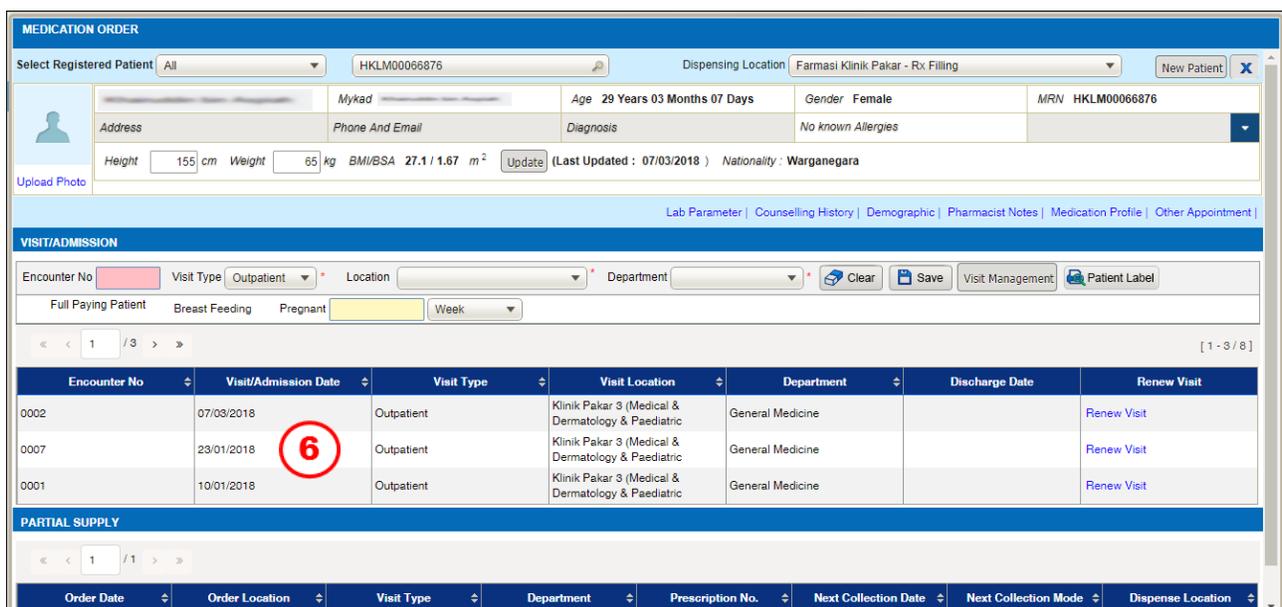


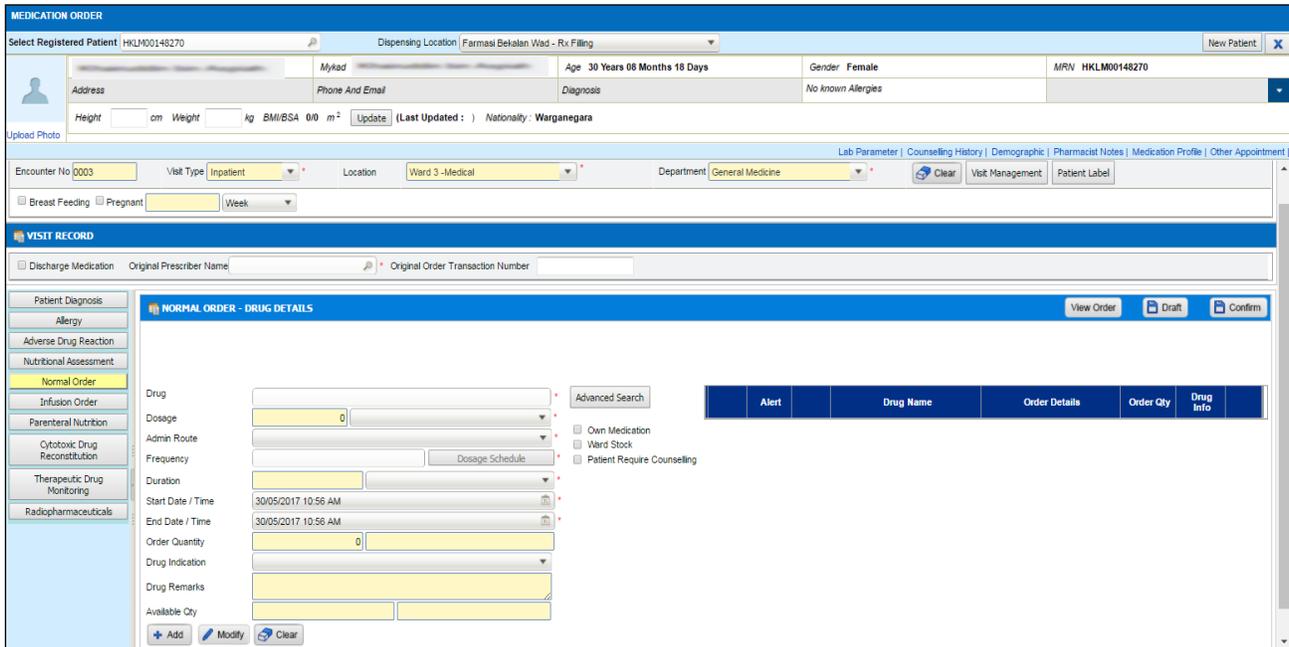
Figure 3.1.1-4 Medication Order

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 assess 'Visit Management' Screen.

STEP 6

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

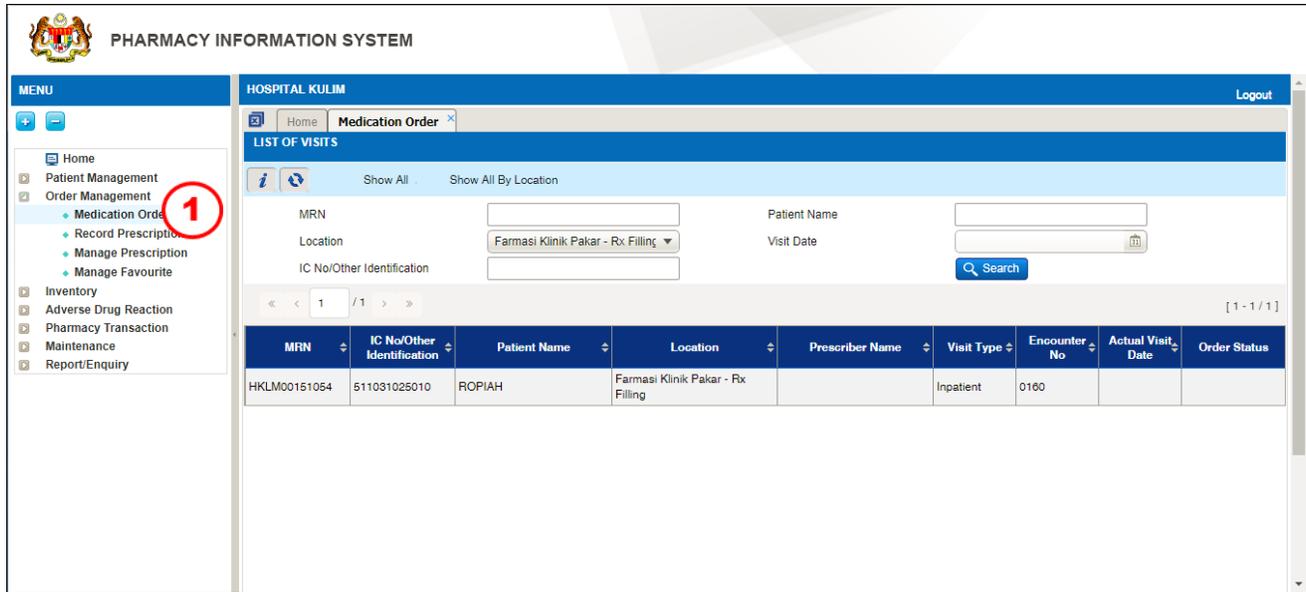


The screenshot displays the 'MEDICATION ORDER' system interface. At the top, it shows patient information: 'Select Registered Patient: HKLM00148270', 'Dispensing Location: Farmasi Bekalan Wad - Rx Filling', and 'New Patient: X'. Below this, a patient profile section includes fields for 'Mykad', 'Age: 30 Years 08 Months 18 Days', 'Gender: Female', and 'MRN: HKLM00148270'. There are also fields for 'Address', 'Phone And Email', 'Diagnosis', and 'No known Allergies'. A 'Visit Record' section shows 'Encounter No: 0003', 'Visit Type: Inpatient', 'Location: Ward 3 -Medical', and 'Department: General Medicine'. The main area is titled 'NORMAL ORDER - DRUG DETAILS' and contains a table with columns: 'Alert', 'Drug Name', 'Order Details', 'Order Qty', and 'Drug Info'. The table is currently empty. To the left of the table are various input fields for 'Drug', 'Dosage', 'Admin Route', 'Frequency', 'Duration', 'Start Date / Time', 'End Date / Time', 'Order Quantity', 'Drug Indication', 'Drug Remarks', and 'Available City'. There are also buttons for '+ Add', 'Modify', and 'Clear'. On the right side of the table, there are checkboxes for 'Own Medication', 'Ward Stock', and 'Patient Require Counseling'. A sidebar on the left lists various order types: Patient Diagnosis, Allergy, Adverse Drug Reaction, Nutritional Assessment, Normal Order (highlighted), Infusion Order, Parenteral Nutrition, Cytotoxic Drug Reconstitution, Therapeutic Drug Monitoring, and Radiopharmaceuticals.

Figure 3.1.1-5 Medication Order

3.1.2 New Patient Registration

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



PHARMACY INFORMATION SYSTEM

HOSPITAL KULIM

Home Medication Order

LIST OF VISITS

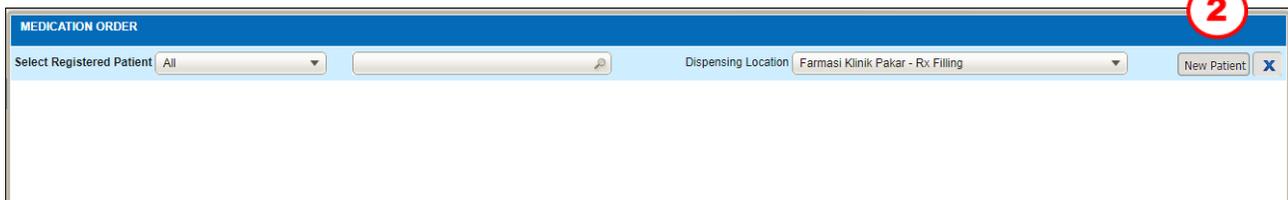
MRN: [input field] Patient Name: [input field]
Location: Farmasi Klinik Pakar - Rx Filling Visit Date: [input field]
IC No/Other Identification: [input field] Search

MRN	IC No/Other Identification	Patient Name	Location	Prescriber Name	Visit Type	Encounter No	Actual Visit Date	Order Status
HKLM00151054	511031025010	ROPIAH	Farmasi Klinik Pakar - Rx Filling		Inpatient	0160		

Figure 3.1.2-1 PhIS Home page

STEP 1

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



MEDICATION ORDER

Select Registered Patient: All [input field] Dispensing Location: Farmasi Klinik Pakar - Rx Filling [input field] New Patient X

Figure 3.1.2-2 Transcribe Order Create New Patient

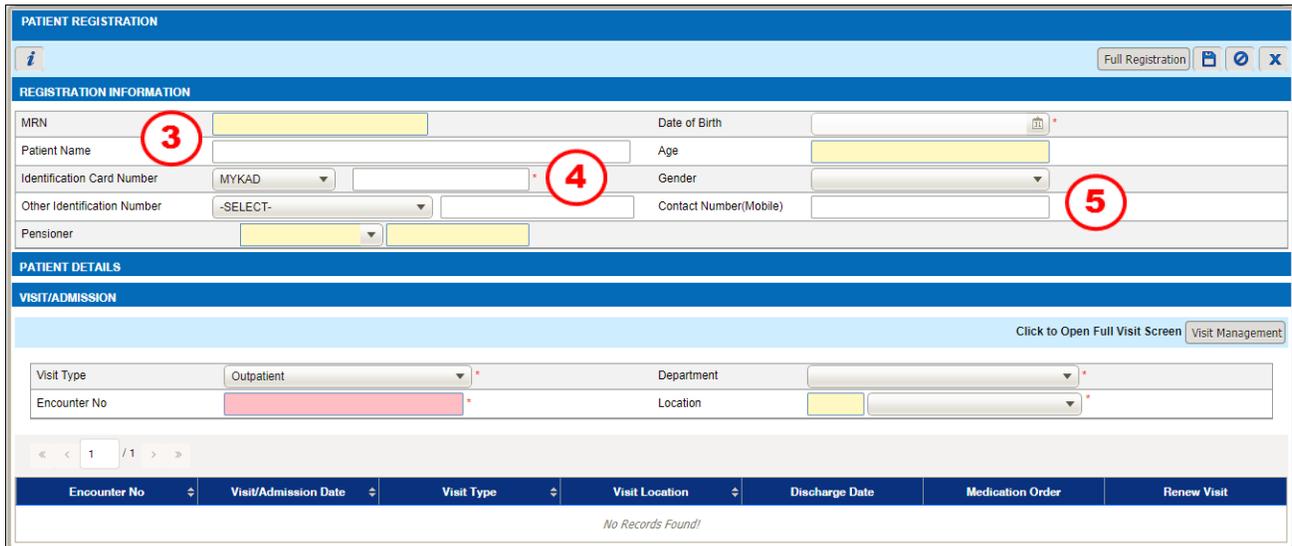


Figure 3.1.2-3 Registration Information

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)**

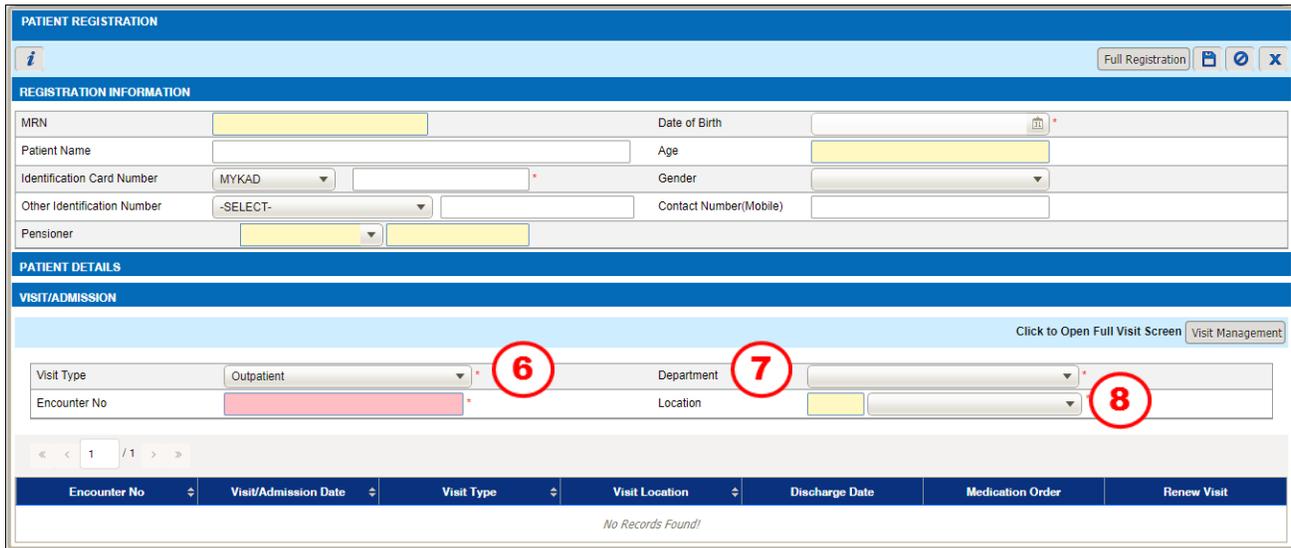


Figure 3.2-4 Visit/Admission

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

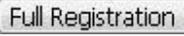
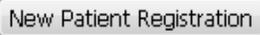
Note

Location will tie to the selected Department.

STEP 9

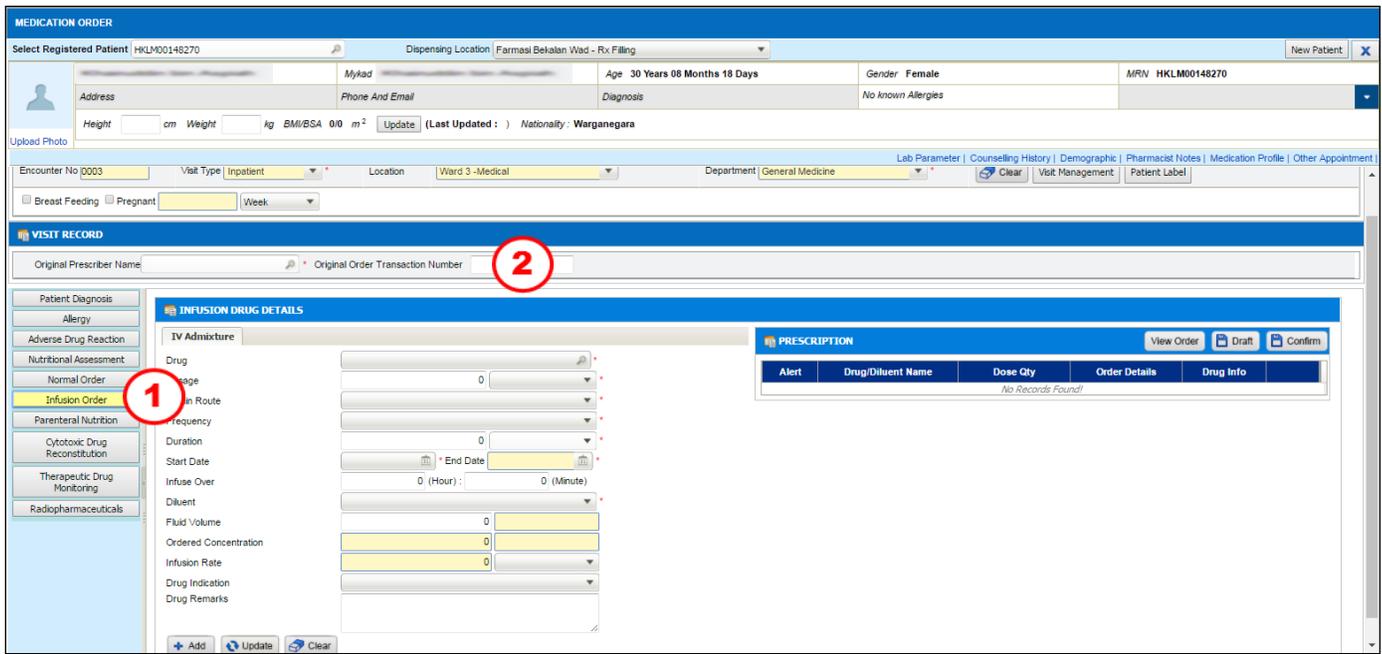
Click on the  button to save the record

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 assess 'Visit Management' Screen.
- Another option to register a new patient is to click on the  button located under Patient Quick Registration

3.2 Infusion Transcribe Order, Verify, 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 dropdown and a 'New Patient' button. Below this is a patient information form with fields for Name, Mykad, Age (30 Years 08 Months 18 Days), Gender (Female), MRN (HKL00148270), Address, Phone And Email, Diagnosis, and No known Allergies. There are also fields for Height, Weight, BMI/BSA, and Nationality (Warganegara). Below the patient information is a 'VIT RECORD' section with a search bar for 'Original Prescriber Name' and 'Original Order Transaction Number'. The 'Original Order Transaction Number' field is circled in red with the number '2'. To the left of the 'INFUSION DRUG DETAILS' section is a navigation menu with 'Infusion Order' highlighted and circled in red with the number '1'. The 'INFUSION DRUG DETAILS' section includes fields for Drug, Dose, Route, Frequency, Duration, Start Date, End Date, Infuse Over (0 Hour, 0 Minute), Diluent, Fluid Volume, Ordered Concentration, Infusion Rate, Drug Indication, and Drug Remarks. To the right is a 'PRESCRIPTION' table with columns for Alert, Drug/Diluent Name, Dose Qty, Order Details, and Drug Info. The table currently shows 'No Records Found!'.

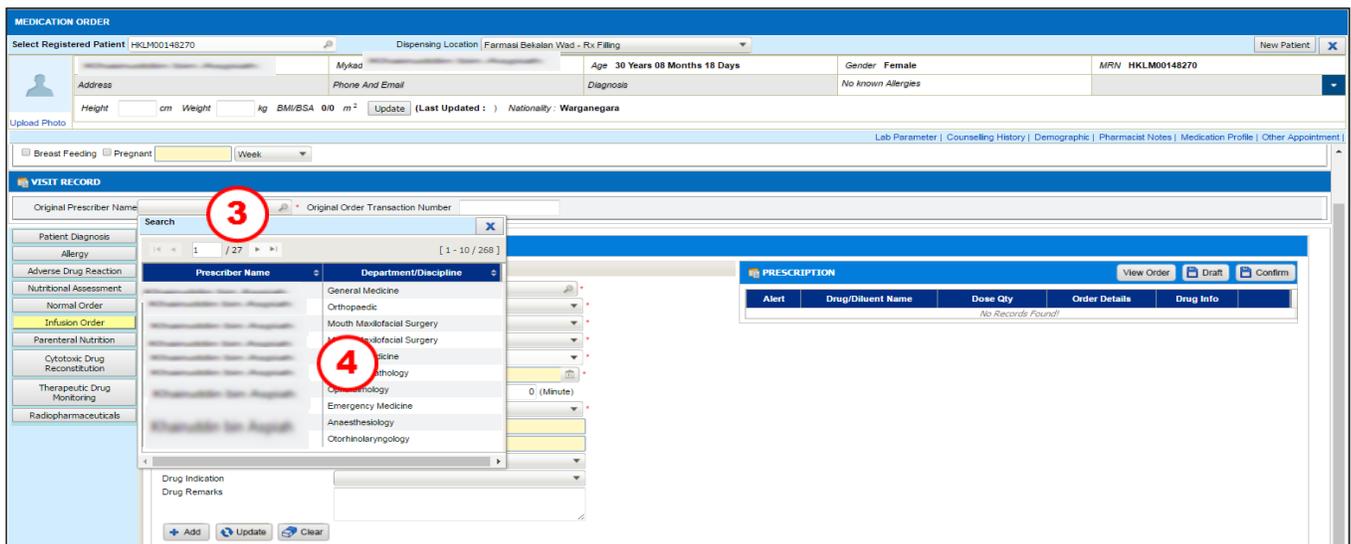
Figure 3.2-1 Medication Order

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 a search window open. The search bar at the top of the search window is circled in red with the number '3'. Below the search bar is a table with columns for 'Prescriber Name' and 'Department/Discipline'. The table lists several prescribers and their departments, with one prescriber highlighted and circled in red with the number '4'. The 'PRESCRIPTION' table on the right still shows 'No Records Found!'.

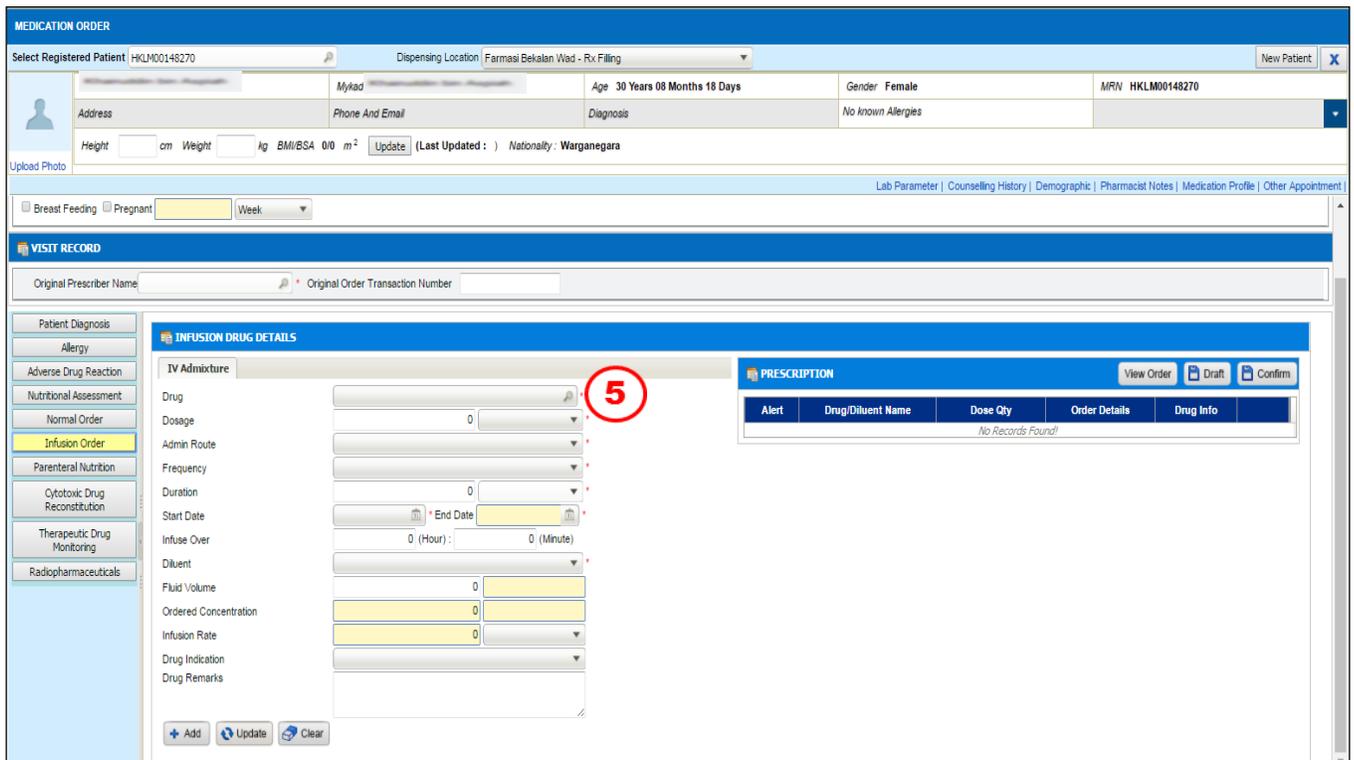
Figure 3.2-2 Medication Order

STEP 3

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

STEP 4

Double click on the selected prescriber



The screenshot displays the 'MEDICATION ORDER' interface. At the top, there's a header with 'MEDIATION ORDER' and a 'New Patient' button. Below this, patient details are shown, including 'Select Registered Patient' (HKLM00148270) and 'Dispensing Location' (Farmasi Bekalan Wad - Rx Filling). A search bar for 'Original Prescriber Name' is visible, with a search icon highlighted by a red circle with the number '5'. The 'IV ADMIXTURE' section contains various input fields for drug, dosage, route, frequency, duration, start/end dates, infusion rate, and diluent. A 'PRESCRIPTION' section is also present, showing a table with columns for 'Alert', 'Drug/Diluent Name', 'Dose Qty', 'Order Details', and 'Drug Info'. The table currently shows 'No Records Found!'.

Figure 3.2-3 Medication Order

STEP 5

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

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

Figure 3.2-4 Drug/Active Ingredient Search

Note

Double click on the selected drug.

7

6

Figure 3.2-5 Infusion Drug Details

Note

- End Date is defaulted by the system according to 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

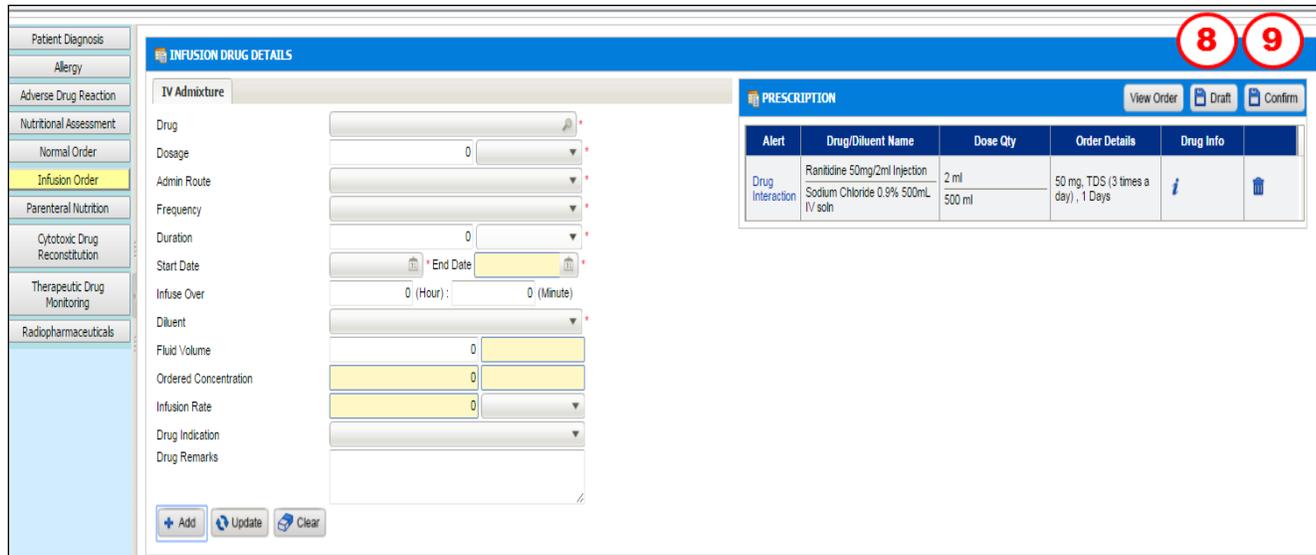


Figure 3.2-6 Infusion Drug Details

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	3 amp		DRAFT
Sodium Chloride 0.9% 500mL IV soln		500 ml	Days	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: HKLM00148270
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

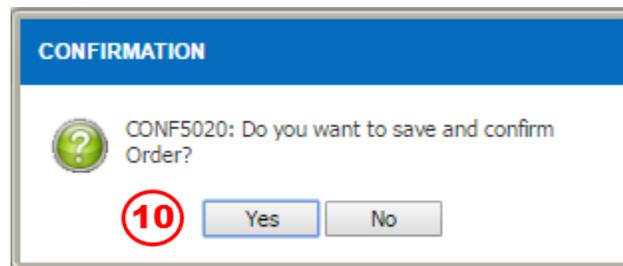
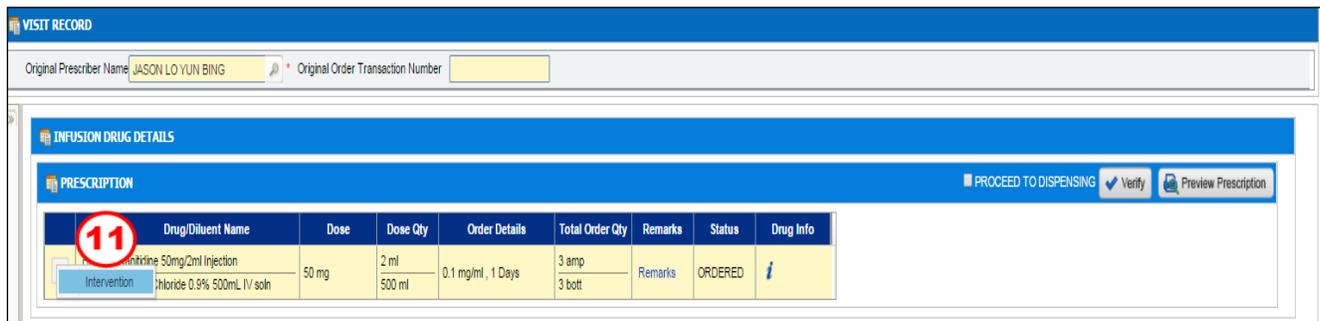


Figure 3.2-9 Confirmation

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: JASON LO YUN BING * Original Order Transaction Number: []

INFUSION DRUG DETAILS

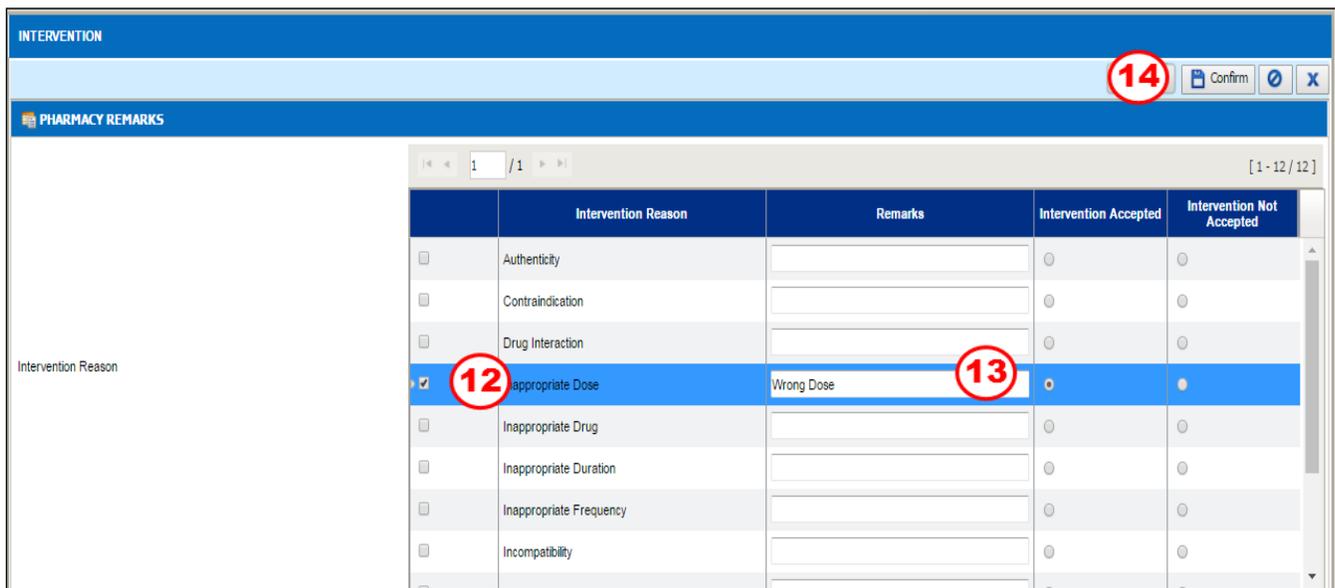
PRESCRIPTION [] PROCEED TO DISPENSING [Verify] [Preview Prescription]

	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
	gentamicin 50mg/2ml injection	50 mg	2 ml	0.1 mg/ml , 1 Days	3 amp	Remarks	ORDERED	i
Intervention	chloride 0.9% 500mL IV soln		500 ml		3 bott			

Figure 3.2-10 Infusion Drug Details

STEP 11

Right click on the [] button and select **Intervention**.



INTERVENTION [Confirm] [] [X]

PHARMACY REMARKS

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"/>	appropriate Dose	Wrong Dose	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Drug	[]	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Duration	[]	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Frequency	[]	<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incompatibility	[]	<input type="radio"/>	<input type="radio"/>

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 [Confirm] button to confirm **Modify Order**

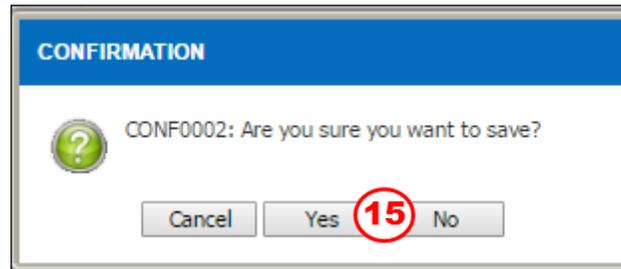


Figure 3.2-12 Confirmation Alert Message

STEP 15

Click on the  button to confirm the intervention

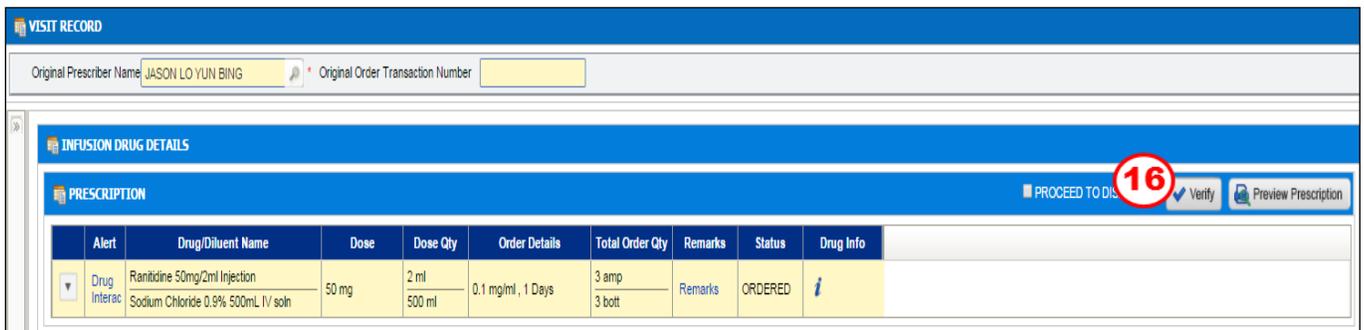


Figure 3.2-13 Medication Order : Verify

STEP 16

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

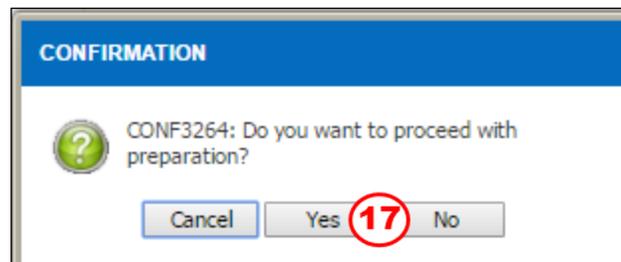


Figure 3.2-14 Alert Confirmation Message

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 <input type="text"/>	Age 30 Years 08 Months 18 Days	Gender Female	MPIN HKLM00148270
Address <input type="text"/>	Phone And Email <input type="text"/>	Diagnosis <input type="text"/>	No known Allergies	
Height <input type="text"/> cm	Weight <input type="text"/> kg	BMI/BSA 0/0 m ²	Update (Last Updated :) Nationality: Warganegara	

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

Encounter No: 0003 Admission Date: 30/05/2017 Visit Location: Ward 3 -Medical Order By: JASON LO YUN BING Transcribed By: SARAVANAPRIYA THILLAINANAM

PHARMACY ORDER

Supervised By

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 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="checkbox"/> 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

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 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="checkbox"/> Details	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Alternate Drug
Intervention
Hold Order

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

1 / 1

No	Drug Name	Dosage Form	Route	Batch	Expiry Date	Available Qty	Units	Qty to Dispense
No record found								

DILUENT BATCH DETAIL

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

1 / 1 [1 - 1 / 1]

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														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 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	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 m ²	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. Syafiq Affandi Baharin	Transcribed By: Suraya Abdul Halim									
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 Interact	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	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 Refresh Close

PHARMACY REMARKS

1 / 1 [1 - 12 / 12]

	Intervention Reason	Remarks	Intervention Accepted	Intervention Not Accepted
Intervention Reason	<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: <input type="text" value="Gentamicin 80mg/2ml Inj"/>	Dosage Form: <input type="text" value="Parenteral Solution"/>
Dosage: <input type="text" value="80"/> * mg	Admin Route: <input type="text" value="Intravenous Infusion"/>
Drug Volume: <input type="text" value="2"/> * ml	Diluent: <input type="text" value="Sodium Chloride 0.9% 100mL IV soln"/> *
Ordered Concentration: <input type="text" value="0.8"/> mg/ml	Diluent Volume: <input type="text" value="100"/> * ml
Frequency: <input type="text" value="OD"/> *	Total Volume: <input type="text" value="102"/> * ml
Infuse Over: <input type="text" value="0"/> * (Hour) <input type="text" value="30"/> * (Minute)	Infusion Rate: <input type="text" value="3.33"/> ml/Min
Duration: <input type="text" value="1"/> * Days	
Start Date: <input type="text" value="27/10/2014"/> *	End Date: <input type="text" value="28/10/2014"/>
Remarks: <input type="text"/>	Update By: <input type="text" value="Suraya Abdul Halim"/>
	Updated Date: <input type="text" value="27/10/2014"/> *

Figure 3.2-20 Intervention

Note

Select **Invervention 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 Close

PHARMACY REMARKS

[1 - 12 / 12]

	Intervention Reason	Remarks	Intervention Accepted	Intervention Not Accepted
Intervention Reason	<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"/> Depleted		<input type="radio"/>	<input type="radio"/>

MODIFY ORDER

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

Figure 3.2-22 Alert Confirmation Message

- Click on the History button to view intervention history listing.

INTERVENTION REASON HISTORY LISTING

Close

[1 - 1 / 1]

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

<input type="text"/>	Mykad <input type="text"/>	Age 39 Years 05 Months 18 Days	Gender Female	MRN HPSF00032191
Address <input type="text"/>	Phone And Email <input type="text"/>	Diagnosis <input type="text"/>	No known Allergies	
Height <input type="text" value="158"/> cm Weight <input type="text" value="57"/> kg BMI/BSA 22.8 / 1.6 m ² <input type="button" value="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. Syafiq Affandi Baharin Transcribed By: Suraya Abdul Halim

PHARMACY ORDER

Supervised By

PRESCRIPTION

[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
<div style="border: 1px solid #ccc; padding: 2px; width: 100px;"> <input type="button" value="Drug Interac."/> <input type="button" value="Alternate Drug"/> <input type="button" value="Intervention"/> <input type="button" value="Hold Order"/> </div>	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="button" value="Details"/>	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Figure 3.2-24 IV Preparation

Note

Hold Order

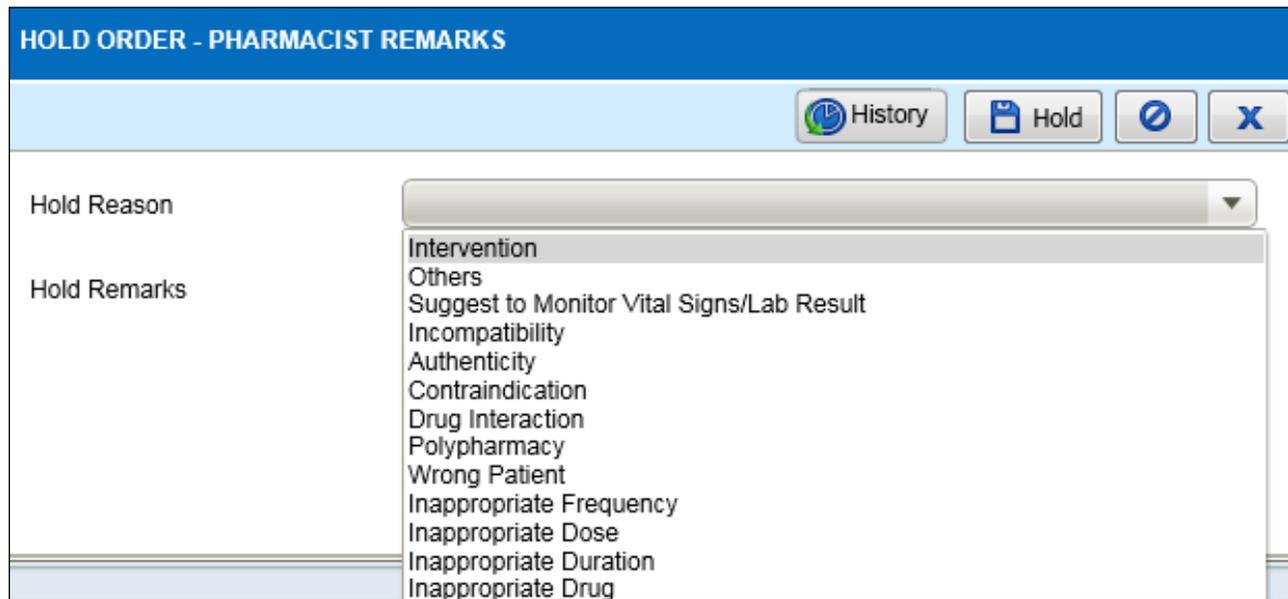
- These functions allow Pharmacist to hold medication from being prepared or dispense; may resume the medication order to continue dispensing.
- Right click on the button and select **Hold Order** and new screen will be displayed as per Figure 3.2-27.

HOLD ORDER - PHARMACIST REMARKS

Hold Reason

Hold Remarks

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:

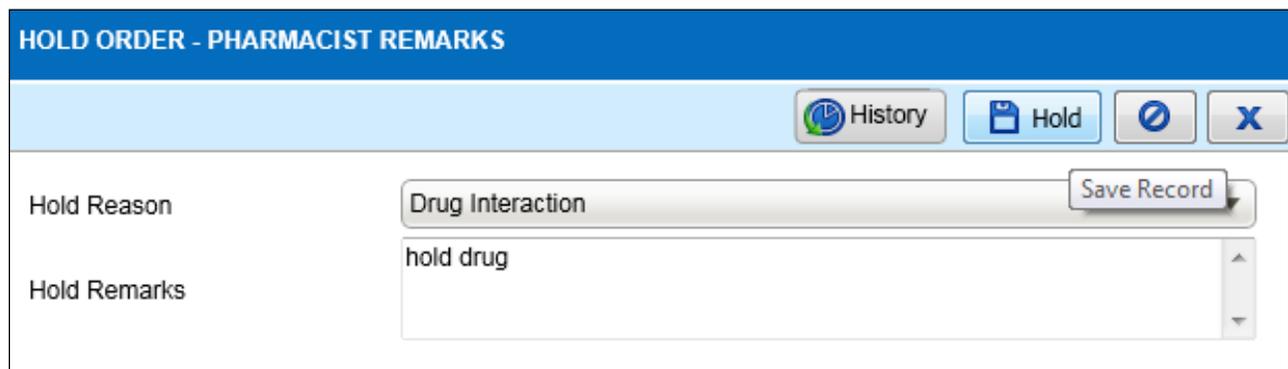
- Intervention
- Others
- Suggest to Monitor Vital Signs/Lab Result
- Incompatibility
- Authenticity
- Contraindication
- Drug Interaction
- Polypharmacy
- Wrong Patient
- Inappropriate Frequency
- Inappropriate Dose
- Inappropriate Duration
- Inappropriate Drug

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

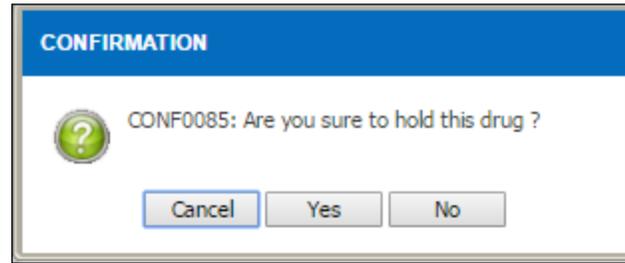


Figure 3.2-28 Alert Confirmation Message

- Click on the  button to confirm the hold order.

IV PREPARATION

Print Original Prescription

Mykad: [Redacted] Age: 39 Years 05 Months 18 Days Gender: Female MRN: HPSF00032191

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)

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: [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	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: [Redacted] Age: 39 Years 05 Months 18 Days Gender: Female MRN: HPSF00032191

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)

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: [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	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**

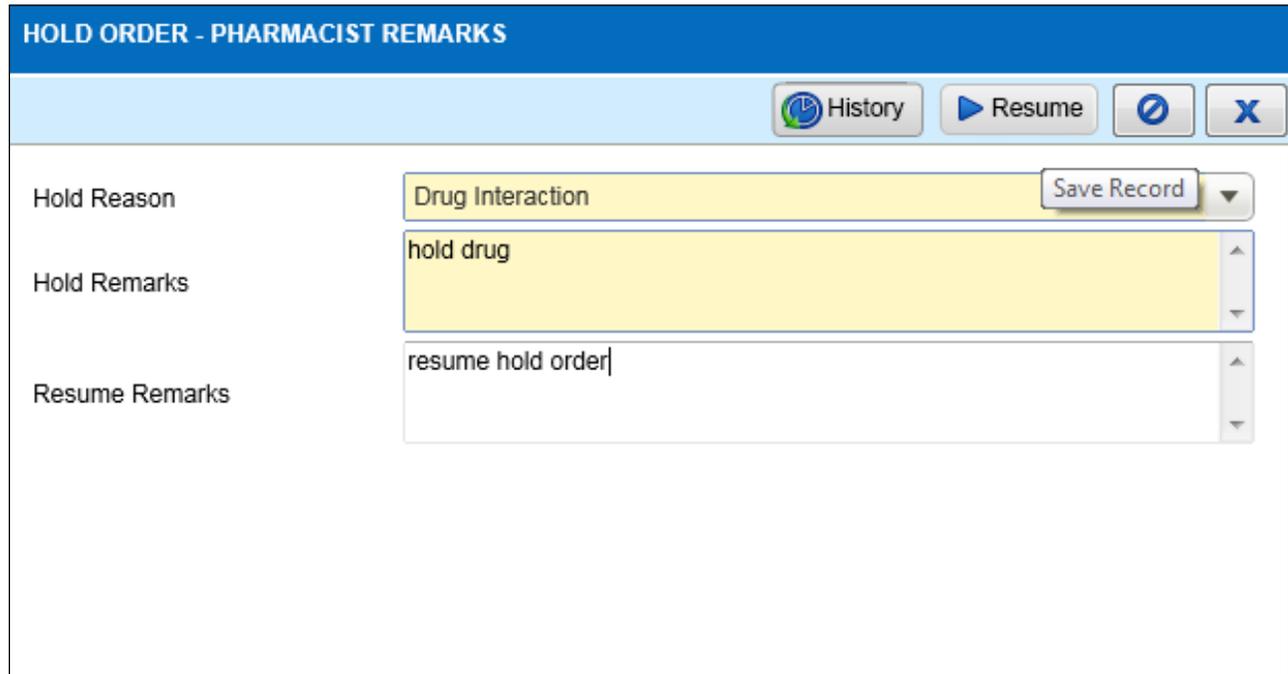


Figure 3.2-31 Hold Order-Pharmacist Remarks

Note

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

Click on the  button to release drug from hold.

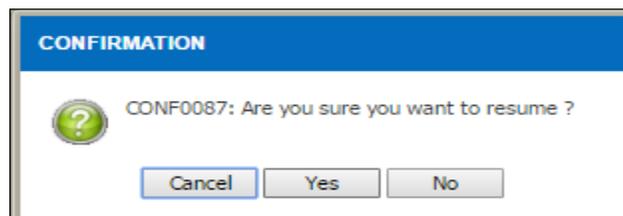


Figure 3.2-32 Alert Confirmation Message

IV PREPARATION

[Print Original Prescription](#)

Mykad

Age 39 Years 05 Months 18 Days

Gender Female

MRN 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)

[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

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	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 0 bott	1 amp 1 bott	Details	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

Drug Code J01GB03183P3003XX

Default SKU ampoule

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	19

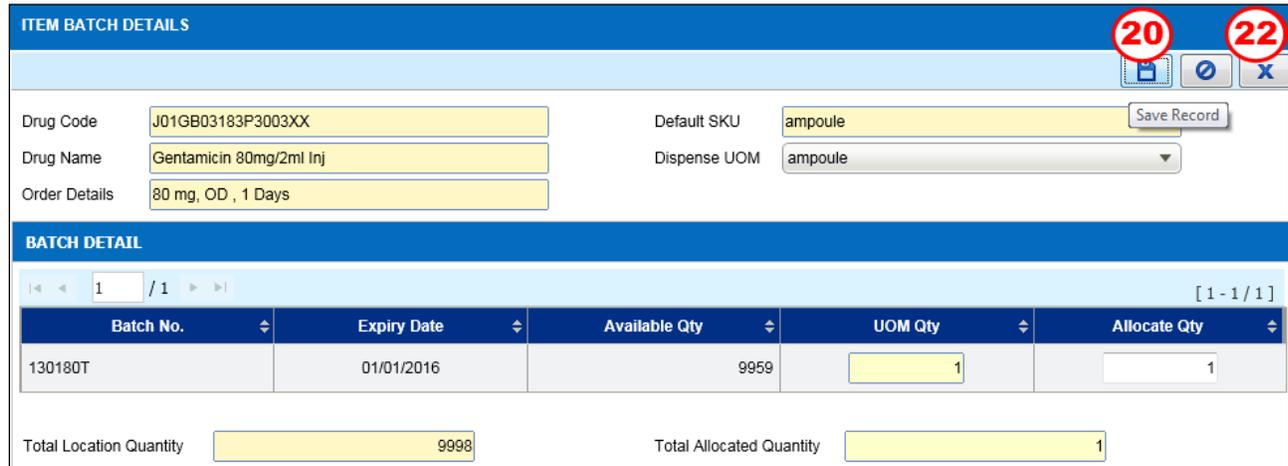
Total Location Quantity 9998

Total Allocated Quantity 1

Figure 3.2-34 Item Batch Details

STEP 19

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



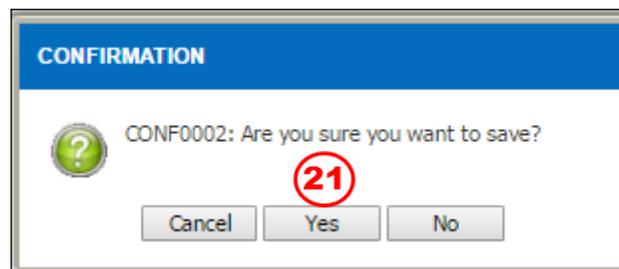
Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
130180T	01/01/2016	9959	1	1

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 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: [Redacted] Age: 39 Years 05 Months 18 Days Gender: Female MRN: HPSF00032191

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)

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: [Redacted]

PRESCRIPTION Prepare Worksheet Label

1 / 1

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare mixture	Prev Disp Qty	Remarks	Status	Drug Info
<input checked="" 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 3.2-37 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

PREPARATION DETAILS

26

Storage **24** Below 0 °C Refrigerate (2 - 8 °C)
 Protect from Light Room Temperature (< 25 °C)

Reconstitution Fluid **25** [Text Field]

Preparation Instruction [Text Field]

26

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.

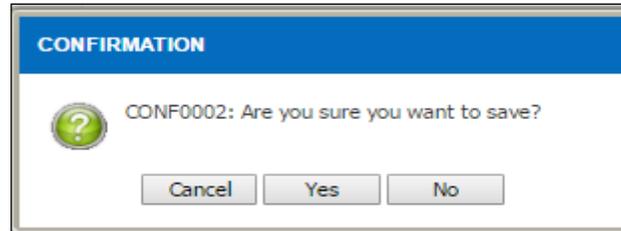


Figure 3.2-39 Alert Confirmation Details

STEP 27

Click on  button to proceed worksheet

IV PREPARATION

Print Original Prescription

	Mykad	Age 39 Years 05 Months 18 Days	Gender Female	MRN HPSF00032191
Address	Phone And Email	Diagnosis	No known Allergies	
Height <input type="text" value="158"/> cm	Weight <input type="text" value="57"/> kg	BMI/BSA 22.8 / 1.6 m ²	Update (Last Updated : 27/10/2014)	

Lab Results Counseling 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	80 mg	2 ml	0.8 mg/ml, OD , 1 Days	1 amp	1	1 amp	1 amp	<input checked="" type="checkbox"/> Details	0 amp	Remarks	VERIFIED	Drug Info
<input type="checkbox"/>	Sodium Chloride 0.9% 100mL IV soln	80 mg	100 ml		1 bott		1 bott	1 bott		0 bott			

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 AZLEEN BINTI ISMAIL			ID No 76509145804			Rx. No. FBW0000017897		
Order Location WAD 9 (MED - P)			Order Date 27/10/2014			Ordered By Dr. Syafiq Affandi Baharin					
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		100 ml		100 ml	1 bott	DMHPSF 14	31/03/2015	
Instruction: Please Refer to SOP											
Reference:											
Worksheet generated by		Worksheet & label checked		Prepared by		Final Product Checked by		Supervised by			
Suraya Abdul Halim											
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 <i>i</i>	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 m ²	Update (Last Updated : 27/10/2014)		

Upload Photo

Lab Results Counseling 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

29

PRESCRIPTION

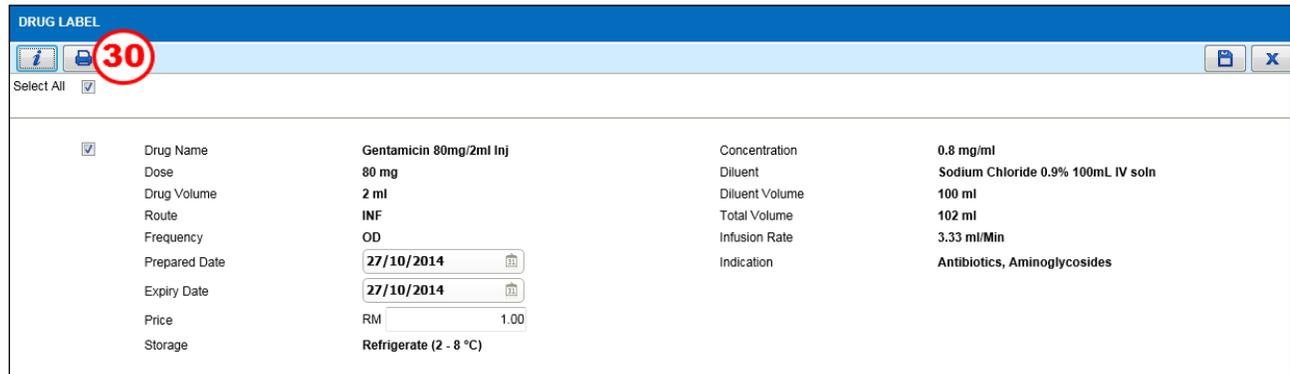
[1 - 1] Edit Label

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
<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 3.2-42 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.

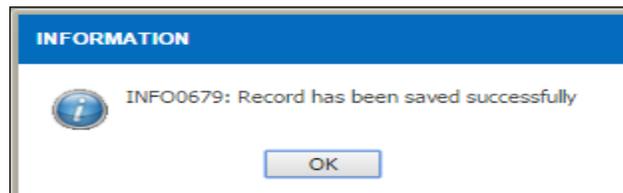


Figure 3.2-44 Alert Information Message

IV Admixture Pharmacy	
Hospital Pakar Sultanah Fatimah, Muar	
Patient Name: AZLEEN BINTI ISMAIL	
MRN: HPSF00032191	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 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 m ² 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. Syafiq Affandi Baharin Transcribed By: Suraya Abdul Halim

PHARMACY ORDER

Supervised By

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.

CONFIRMATION

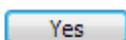


CONF7041: Do you want to proceed with dispensing screen?

Cancel
Yes **32**
No

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

IV DISPENSING

Print Original Prescription [X]

Mykad: [Redacted] Age: 39 Years 05 Months 19 Days Gender: Female MRN: HPSF00032191

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)

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

Dispensed To: AZLEEN BINTI ISMAIL * Dispensed Date/Time: 28/10/2014 06:41 * Remarks: [Redacted]

Dispensed At: Pharmacy Counter * Collected By: [Redacted]

Supervised By: [Redacted]

PRESCRIPTION [Release/Discard] [Dispense] [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	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interact	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	PREPARE D	Drug Info

Figure 3.2-48 IV Dispensing

IV DISPENSING

Print Original Prescription [X]

Mykad: [Redacted] Age: 39 Years 05 Months 19 Days Gender: Female MRN: HPSF00032191

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)

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

Dispensed To: AZLEEN BINTI ISMAIL * Dispensed Date/Time: 28/10/2014 06:41 * Remarks: [Redacted]

Dispensed At: Pharmacy Counter * Collected By: [Redacted]

Supervised By: [Redacted]

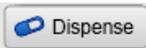
PRESCRIPTION [Release/Discard] [Dispense] [Label]

[1] / 1 [Dispense Order]

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	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	PREPARE D	Drug Info

Figure 3.2-49 IV Dispensing

STEP 33

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

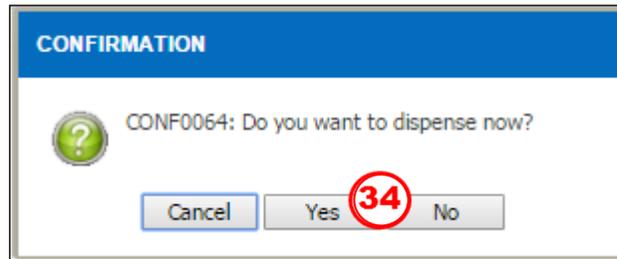
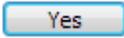


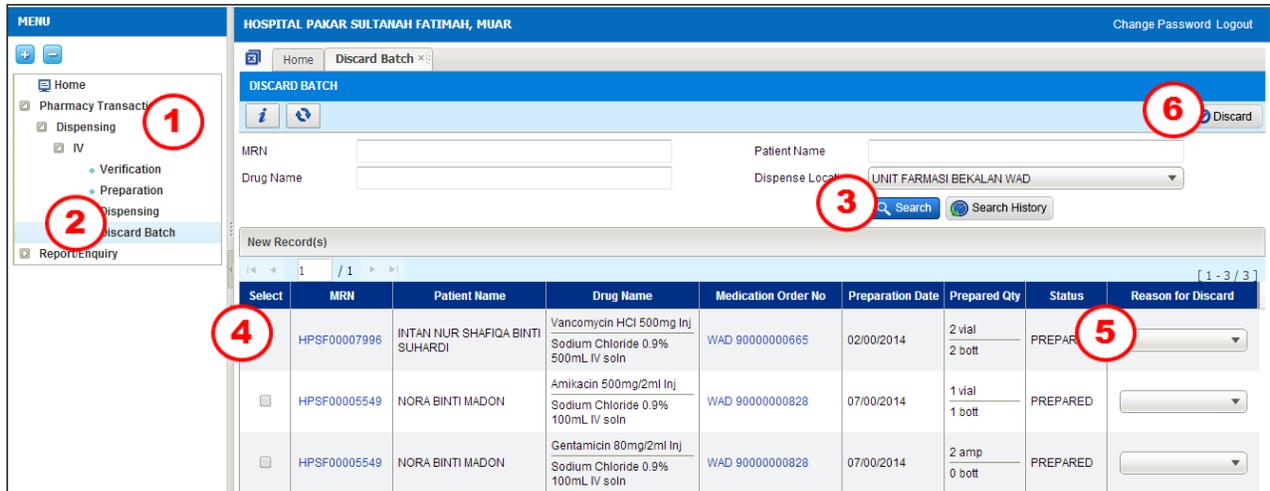
Figure 3.2-50 Alert Confirmation Message

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.



Select	MRN	Patient Name	Drug Name	Medication Order No	Preparation Date	Prepared Qty	Status	Reason for Discard
<input type="checkbox"/>	HPSF00007996	INTAN NUR SHAFIQA BINTI SUHARDI	Vancomycin HCl 500mg Inj Sodium Chloride 0.9% 500mL IV soln	WAD 90000000665	02/00/2014	2 vial 2 bott	PREPAR	
<input type="checkbox"/>	HPSF00005549	NORA BINTI MADON	Amikacin 500mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	WAD 90000000828	07/00/2014	1 vial 1 bott	PREPARED	
<input type="checkbox"/>	HPSF00005549	NORA BINTI MADON	Gentamicin 80mg/2ml Inj Sodium Chloride 0.9% 100mL IV soln	WAD 90000000828	07/00/2014	2 amp 0 bott	PREPARED	

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 :

- a) **MRN**
- b) **Patient Name**
- c) **Drug Name**
- d) **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		