



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

Pharmacy Based

User Manual Infusion Order

Version	: 8th EDITION
Document ID	: PB_U. MANUAL_INFUSION ORDER



PhIS & CPS Project
User Manual – IV (Infusion)



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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

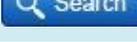
1.3 Organised Sections

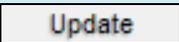
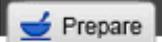
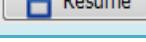
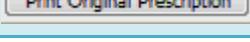
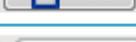
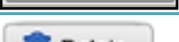
These are the sections within this document:

- 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

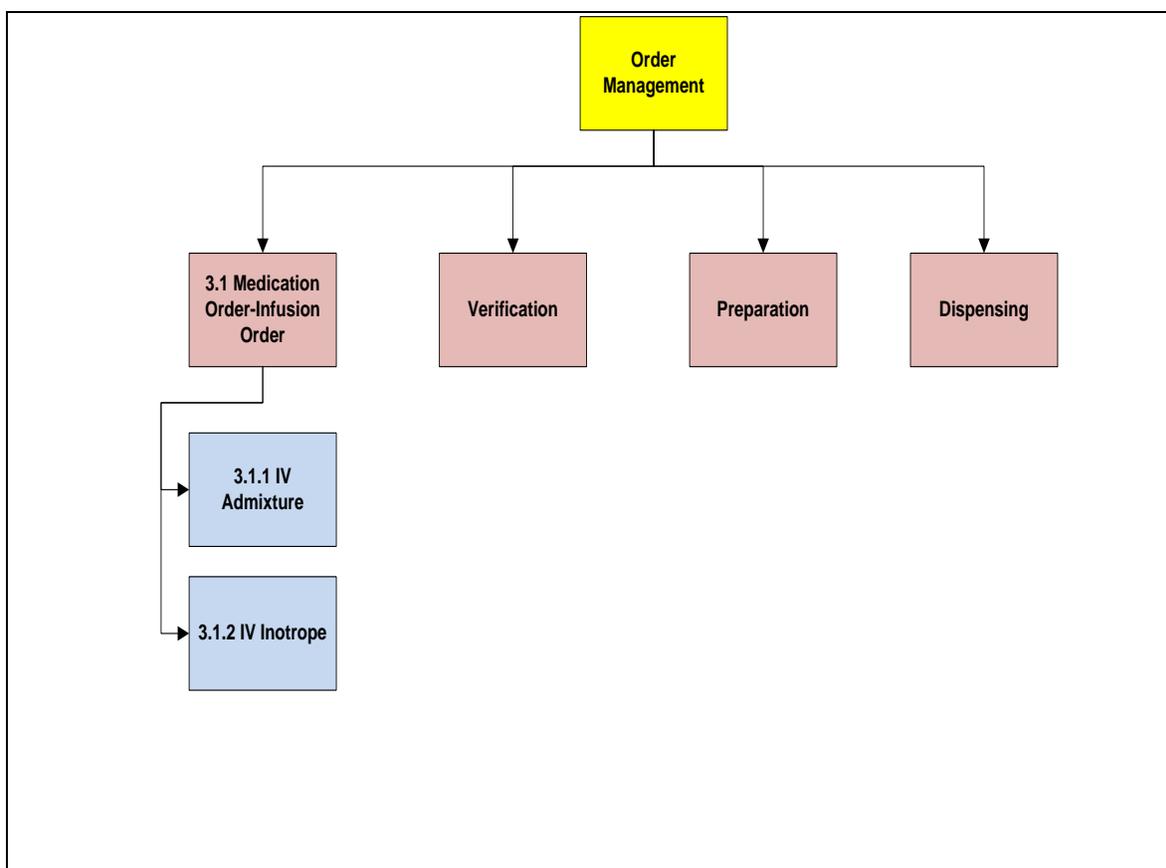


Figure 3.0-1

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.

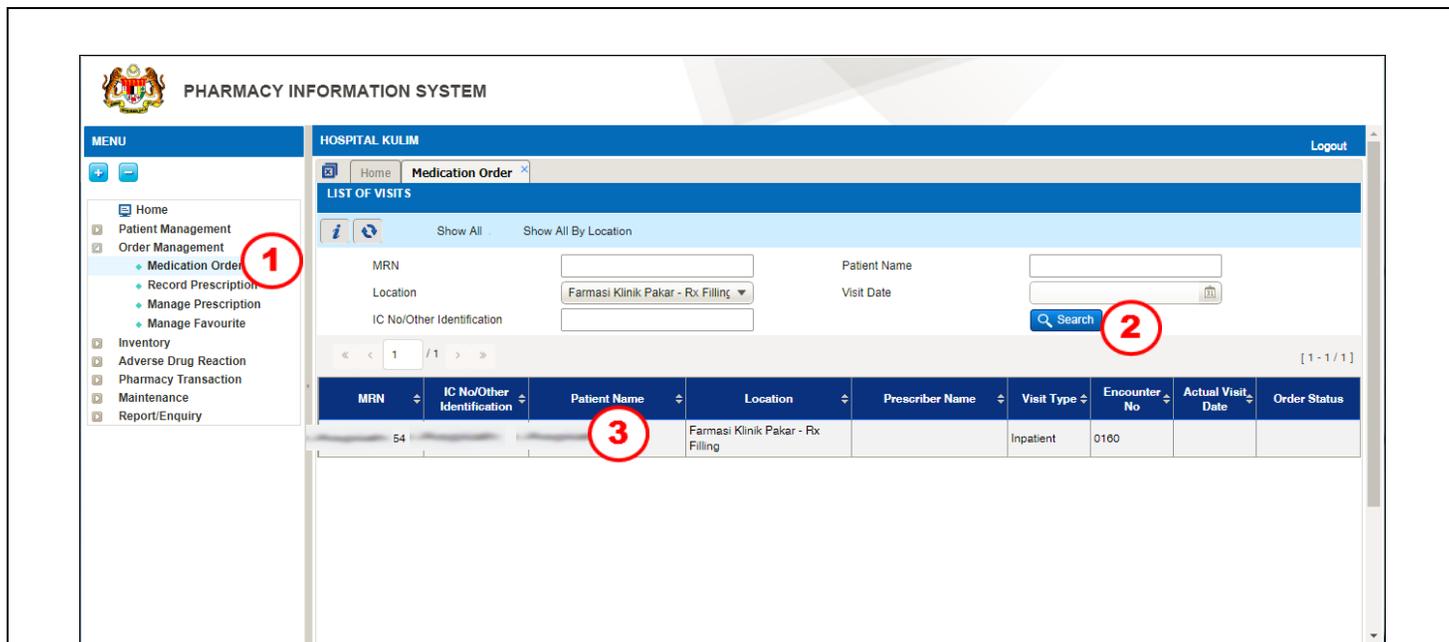


Figure 3.1.1-1PhIS Home page

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.



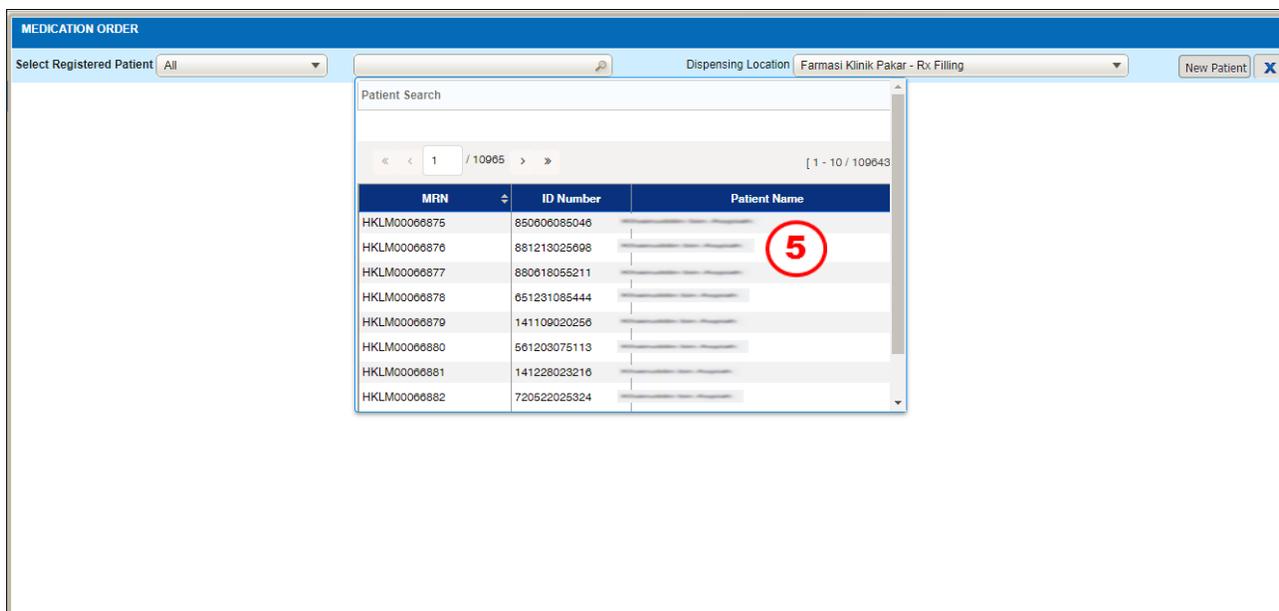
Figure 3.1.1-2Medication Order

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



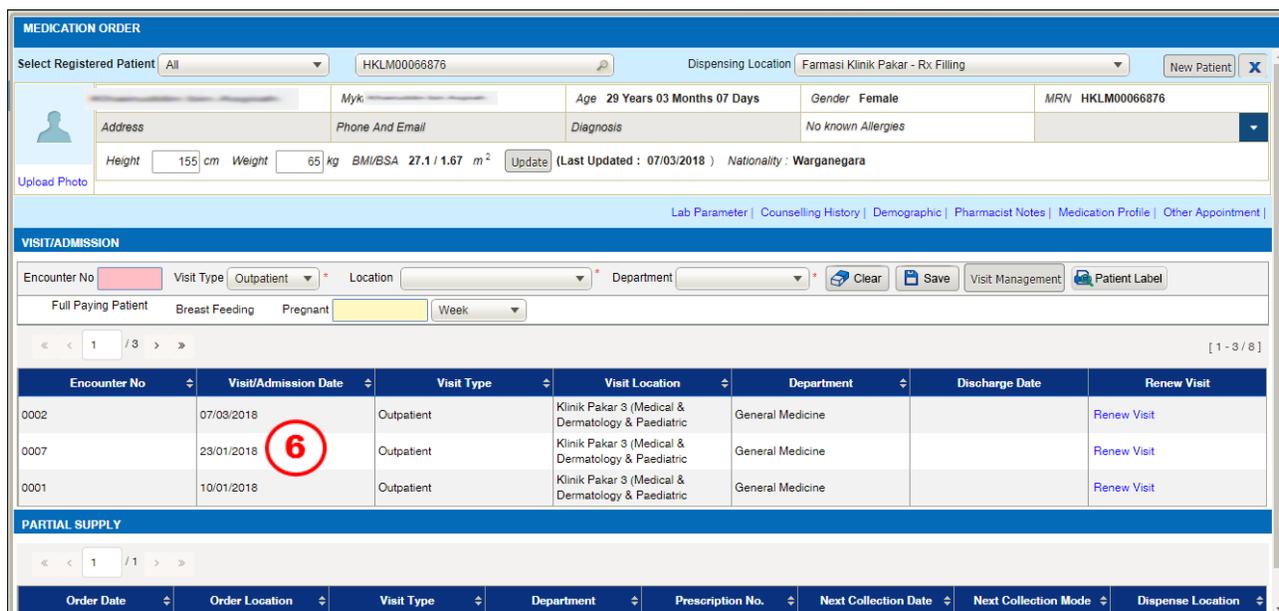
The screenshot shows the 'MEDICATION ORDER' interface. At the top, there are dropdowns for 'Select Registered Patient' (set to 'All') and 'Dispensing Location' (set to 'Farmasi Klinik Pakar - Rx Filling'). A search bar contains 'Patient Search'. Below it is a table with columns 'MRN', 'ID Number', and 'Patient Name'. The second row is highlighted with a red circle containing the number '5'.

MRN	ID Number	Patient Name
HKLM00066875	850606085046	[Redacted]
HKLM00066876	881218025098	[Redacted]
HKLM00066877	880618055211	[Redacted]
HKLM00066878	651231085444	[Redacted]
HKLM00066879	141109020256	[Redacted]
HKLM00066880	561203075113	[Redacted]
HKLM00066881	141228023216	[Redacted]
HKLM00066882	720522025324	[Redacted]

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



The screenshot shows the 'MEDICATION ORDER' interface with patient details for MRN HKLM00066876. The patient's name is Myk. Age is 29 Years 03 Months 07 Days, Gender is Female. Address, Phone, and Email fields are present. Height is 155 cm, Weight is 65 kg, BMI/BSA is 27.1 / 1.67 m². Nationality is Warganegara. Below this is the 'VISIT/ADMISSION' section with a table of visits. The second row is highlighted with a red circle containing the number '6'.

Encounter No	Visit/Admission Date	Visit Type	Visit Location	Department	Discharge Date	Renew Visit
0002	07/03/2018	Outpatient	Klinik Pakar 3 (Medical & Dermatology & Paediatric	General Medicine		Renew Visit
0007	23/01/2018	Outpatient	Klinik Pakar 3 (Medical & Dermatology & Paediatric	General Medicine		Renew Visit
0001	10/01/2018	Outpatient	Klinik Pakar 3 (Medical & Dermatology & Paediatric	General Medicine		Renew Visit

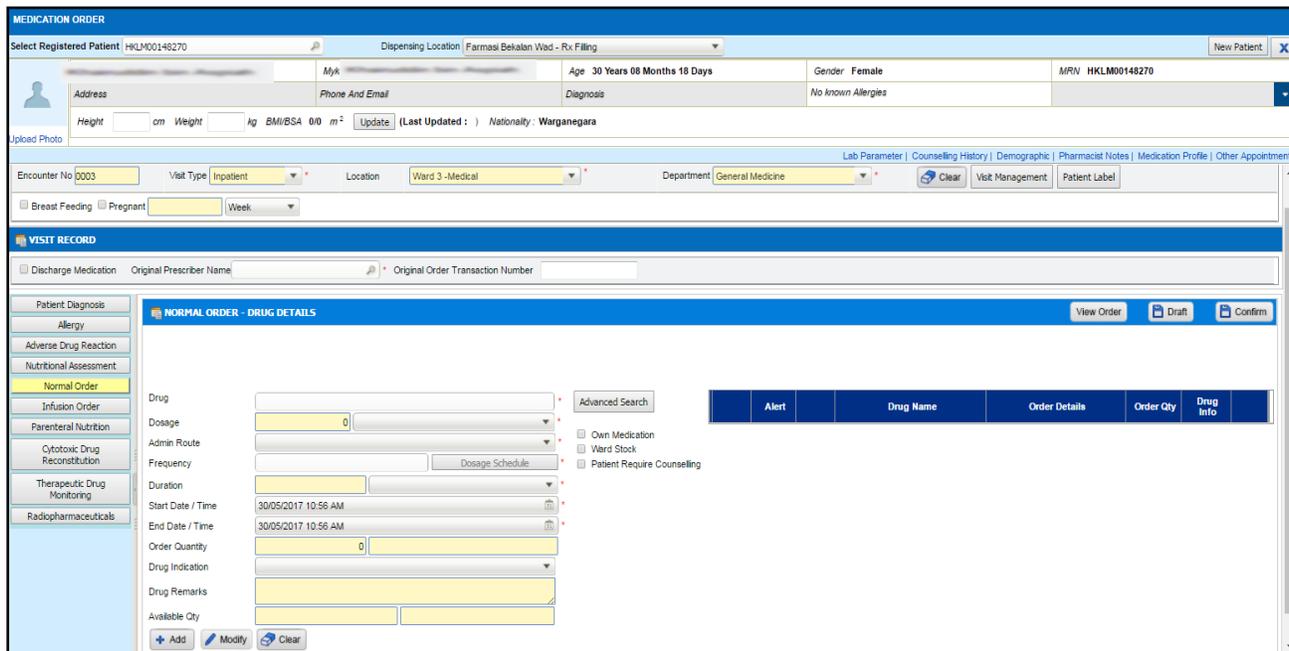
Figure 3.1.1-4 Medication Order

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 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

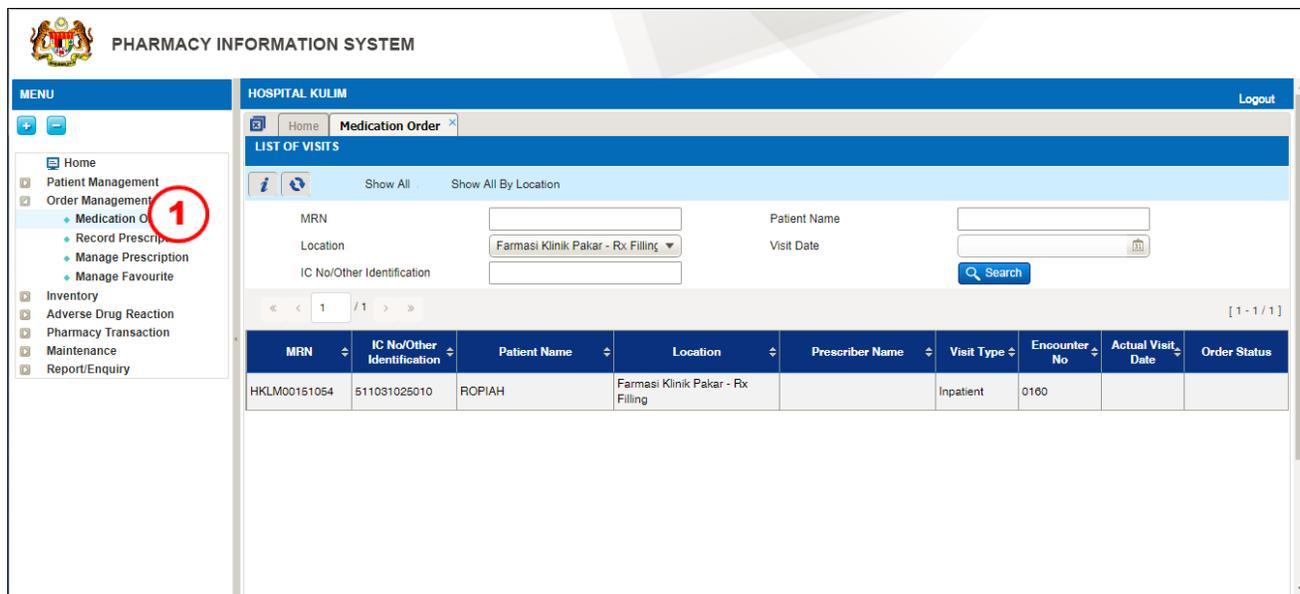


The screenshot displays the 'MEDICATION ORDER' interface. At the top, it shows the 'Select Registered Patient' field with ID 'HKLM00148270' and the 'Dispensing Location' as 'Farmasi Bekalan Wad - Rx Filing'. Patient details include 'Age 30 Years 08 Months 18 Days', 'Gender Female', and 'MRN HKLM00148270'. The 'VIT RECORD' section shows 'Encounter No 0003', 'Visit Type Inpatient', 'Location Ward 3 -Medical', and 'Department General Medicine'. The 'NORMA ORDER - DRUG DETAILS' section includes fields for 'Drug', 'Dosage', 'Admin Route', 'Frequency', 'Duration', 'Start Date / Time', 'End Date / Time', 'Order Quantity', 'Drug Indication', and 'Drug Remarks'. A table on the right lists columns for 'Alert', 'Drug Name', 'Order Details', 'Order Qty', and 'Drug Info'. The interface also features buttons for 'View Order', 'Draft', 'Confirm', 'Add', 'Modify', and 'Clear'.

Figure 3.1.1-5 Medication Order

3.1.2 New Patient Registration

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



The screenshot shows the PhIS Home page for Hospital Kulim. The 'MENU' on the left has 'Order Management' highlighted with a red circle containing the number 1. The main area shows the 'LIST OF VISITS' section with search filters for MRN, Location (set to 'Farmasi Klinik Pakar - Rx Filling'), Patient Name, and Visit Date. A table below displays one visit record.

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



The screenshot shows the 'MEDICATION ORDER' screen. The 'Select Registered Patient' dropdown is set to 'All'. The 'Dispensing Location' dropdown is set to 'Farmasi Klinik Pakar - Rx Filling'. The 'New Patient' button is highlighted with a red circle containing the number 2.

Figure 3.1.2-2 Transcribe Order Create New Patient

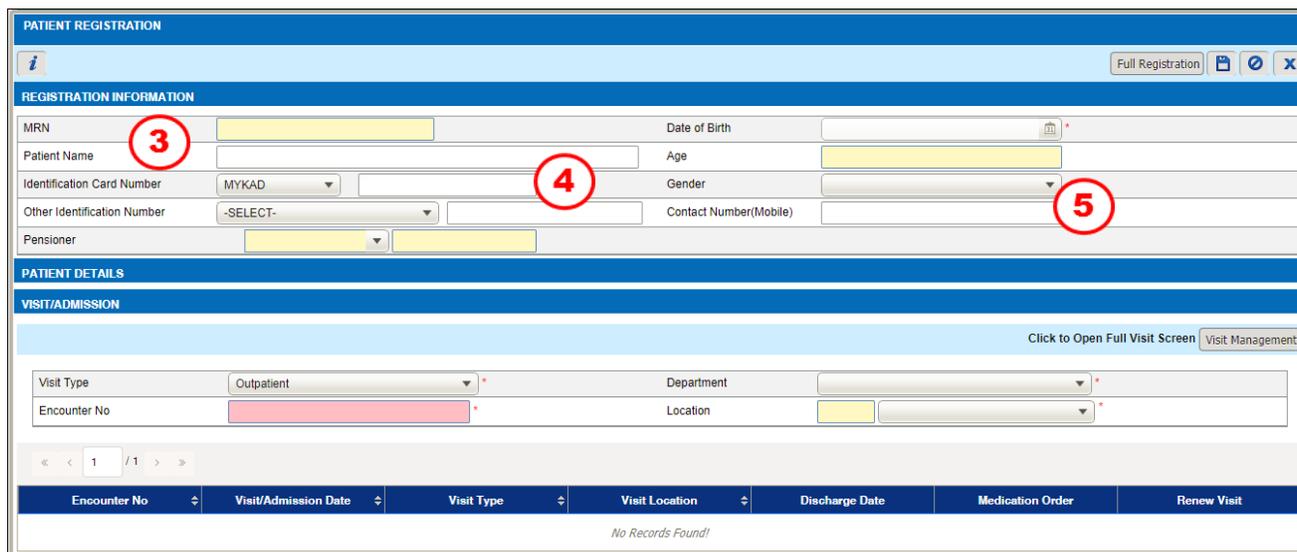


Figure 3.1.2-3 Registration Information

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)**

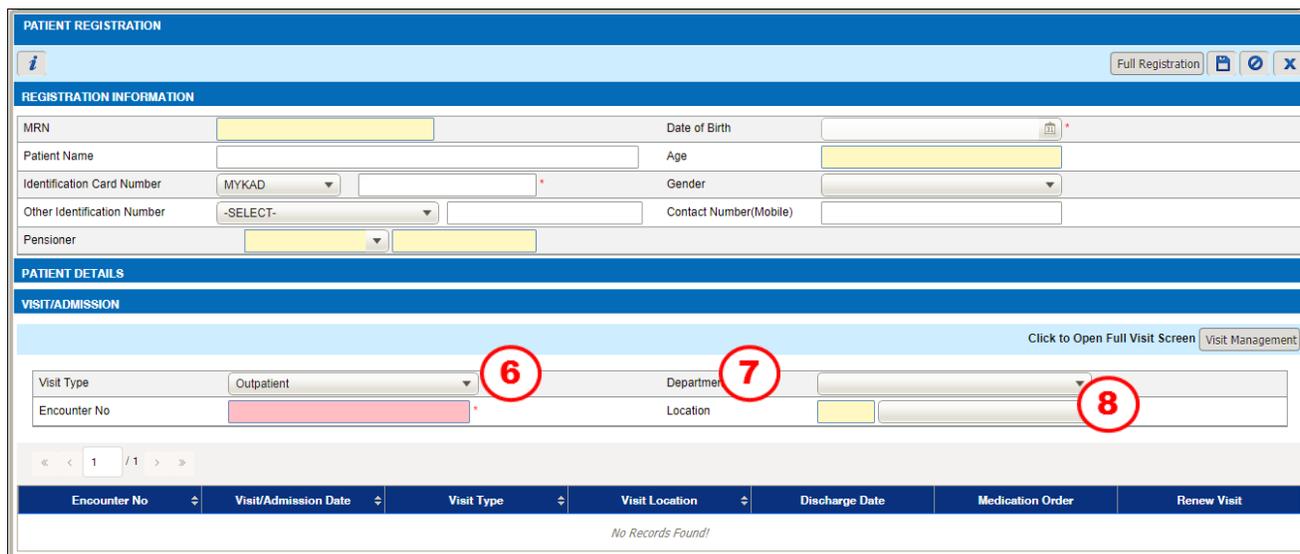


Figure 3.2-4 Visit/Admission

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

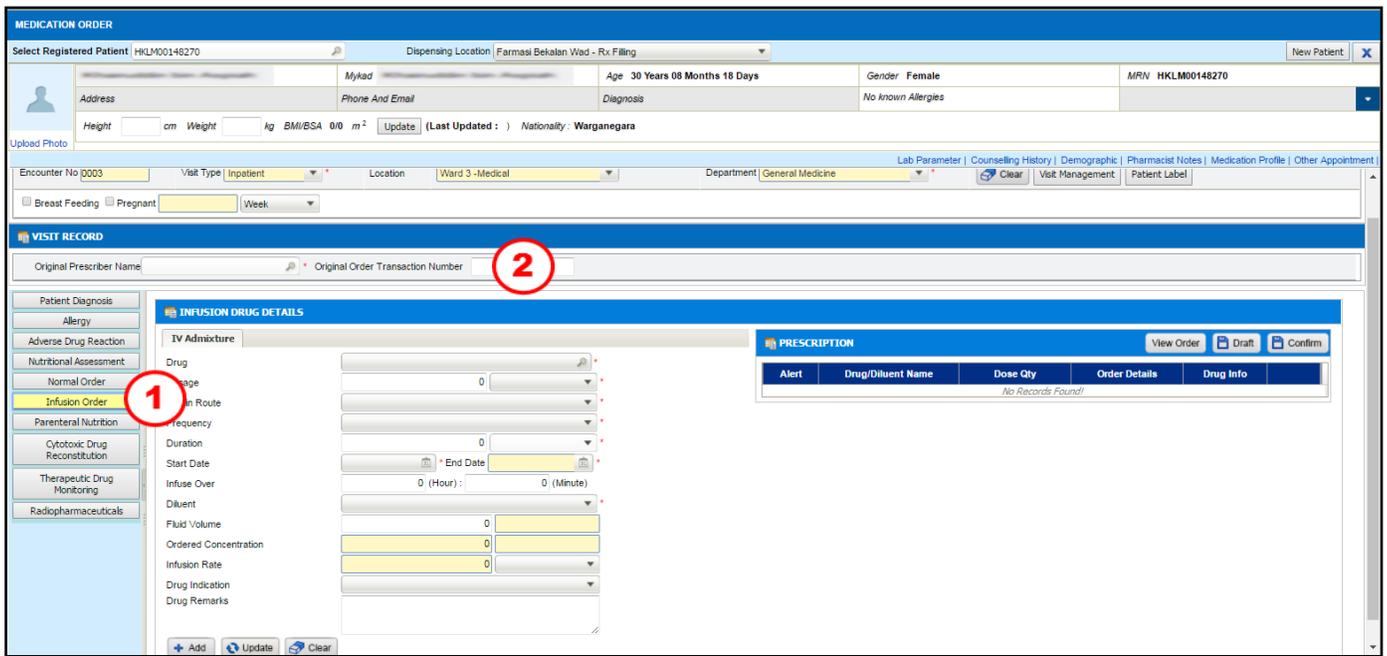
Click on the  button to save the record

Note

- After click the save button, system will automatically generate the **MRN** (Medical Record Number) and ,  and  buttons will be enabled.
- Click on the **Full Registration** button to assess 'Visit Management' Screen.
- Another option to register a new patient is to click on the **New Patient Registration** 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. The 'VITIS RECORD' section has the 'Original Order Transaction Number' field highlighted with a red circle containing the number 2. In the 'INFUSION DRUG DETAILS' section, the 'Infusion Order' tab is selected, highlighted with a red circle containing the number 1. The 'PRESCRIPTION' table is empty with the message 'No Records Found!'.

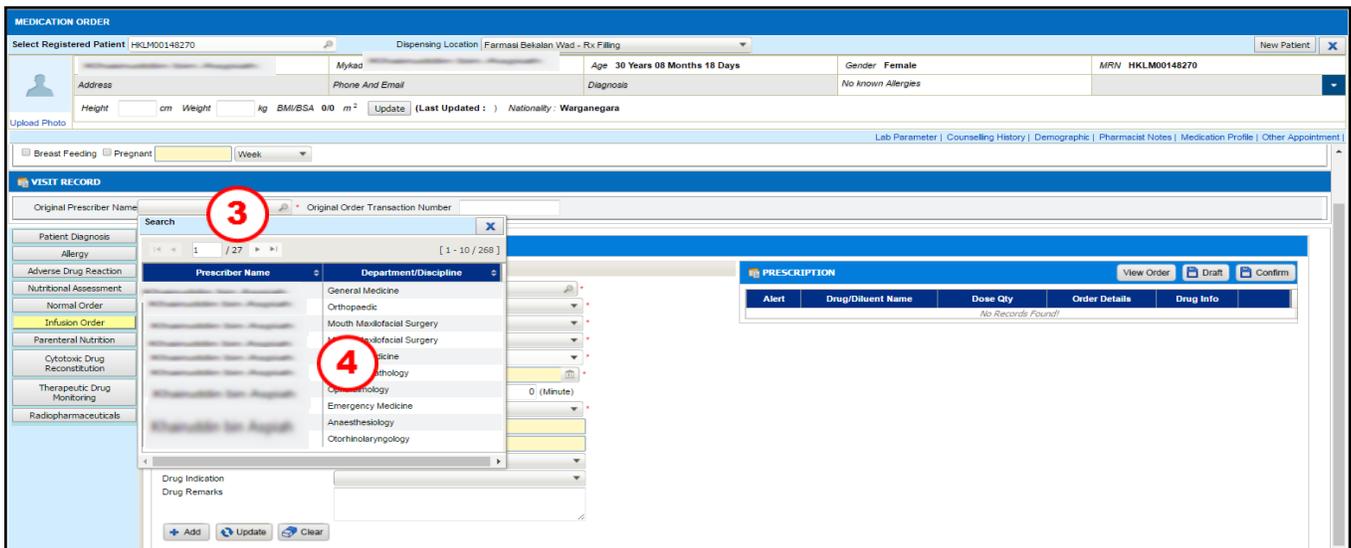
Figure 3.2-1 Medication Order

STEP 1

Click on the *Infusion Order* tab

STEP 2

Enter *Original Order Transaction Number*



The screenshot shows the 'MEDICATION ORDER' interface with the search function active. The search input field is highlighted with a red circle containing the number 3. A dropdown menu is open, showing a list of prescribers with their names and departments. The dropdown menu is highlighted with a red circle containing the number 4. The 'PRESCRIPTION' table remains empty with the message 'No Records Found!'.

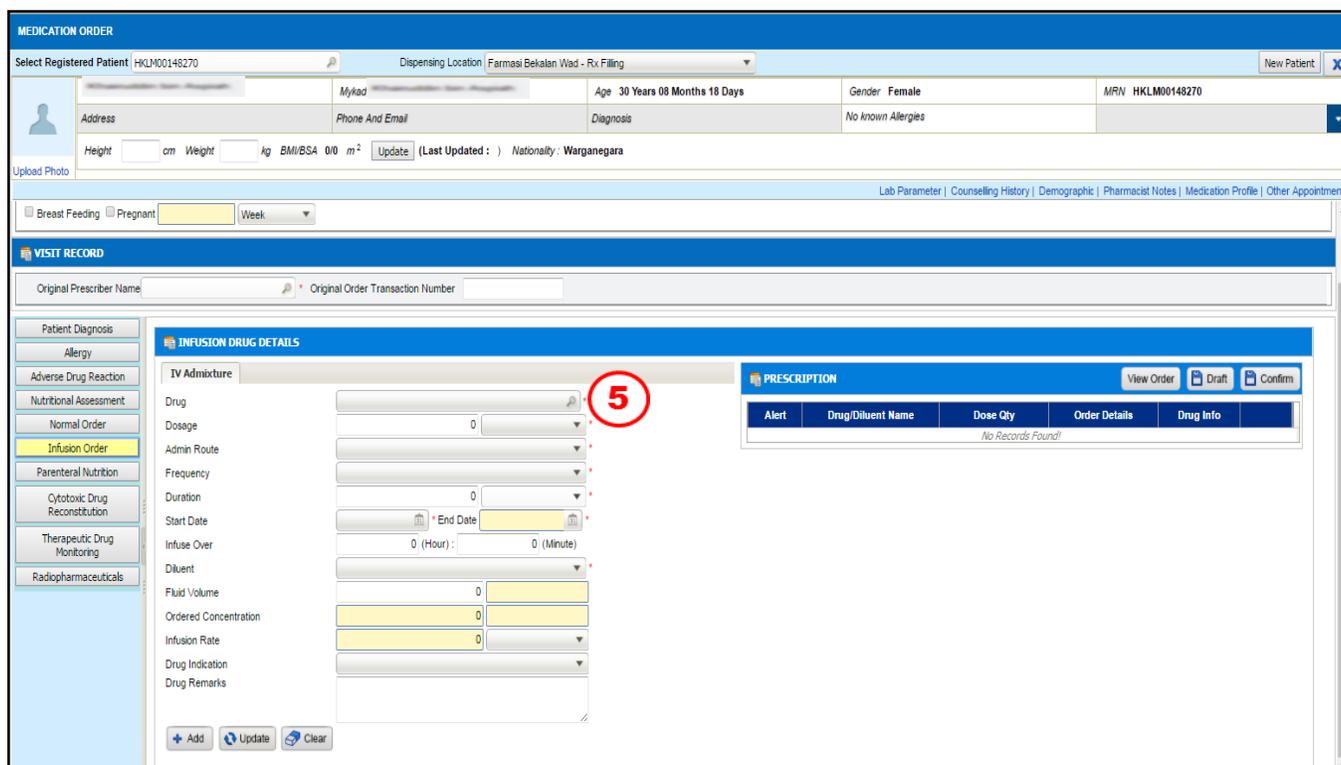
Figure 3.2-2 Medication Order

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 is a patient selection dropdown with 'HKLM00148270' and a 'New Patient' button. Below this, patient details are shown: Mykad, Age (30 Years 08 Months 18 Days), Gender (Female), M/R/N (HKLM00148270), Address, Phone And Email, Diagnosis, and No known Allergies. There are also fields for Height, Weight, BMI/BSA, and an 'Update' button. A 'VISIT RECORD' section follows, with search fields for 'Original Prescriber Name' and 'Original Order Transaction Number'. On the left, a navigation menu includes 'Patient Diagnosis', 'Allergy', 'Adverse Drug Reaction', 'Nutritional Assessment', 'Normal Order', 'Infusion Order' (highlighted), 'Parenteral Nutrition', 'Cytotoxic Drug Reconstitution', 'Therapeutic Drug Monitoring', and 'Radiopharmaceuticals'. The main area is titled 'INFUSION DRUG DETAILS' and contains a form for 'IV Admixture' with fields for Drug, Dosage, Admin Route, Frequency, Duration, Start Date, End Date, Infuse Over (Hour/Minute), Diluent, Fluid Volume, Ordered Concentration, Infusion Rate, Drug Indication, and Drug Remarks. A red circle with the number '5' is drawn around the 'Drug' field. To the right, a 'PRESCRIPTION' table is shown with columns for 'Alert', 'Drug/Diluent Name', 'Dose Qty', 'Order Details', and 'Drug Info'. The table is currently empty, displaying '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	Ranitidine 50mg/2ml Injection	Ranitidine	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.

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 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 : ██████████ Patient ID : ██████████
 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 : ██████████
 Designation : Pegawai Perubatan

Figure 3.2-8 Prescription Details

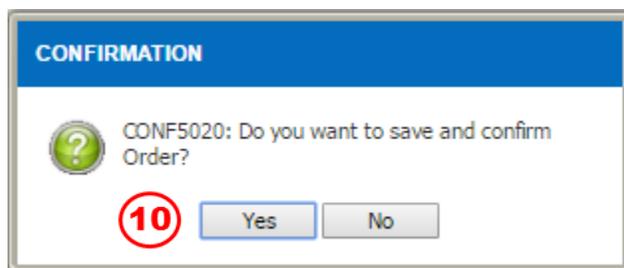
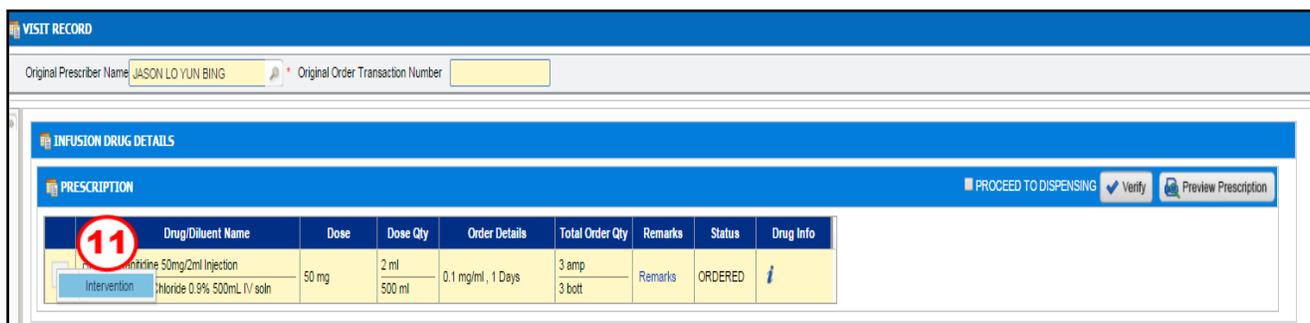


Figure 3.2-9 Confirmation

STEP 10

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

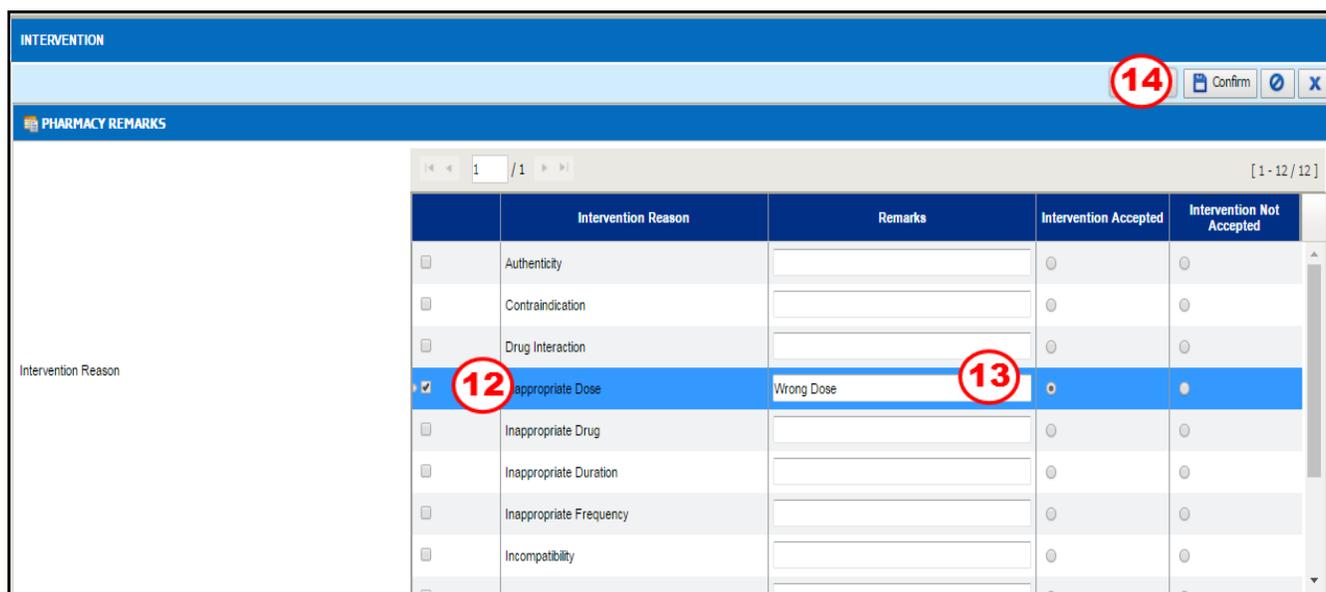


Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Clonidine 50mg/2ml Injection	50 mg	2 ml	0.1 mg/ml, 1 Days	3 amp	Remarks	ORDERED	
Intervention Chloride 0.9% 500mL IV soln	500 ml	500 ml		3 bott			

Figure 3.2-10 Infusion Drug Details

STEP 11

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



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"/> Inappropriate 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  button to confirm **Modify Order**

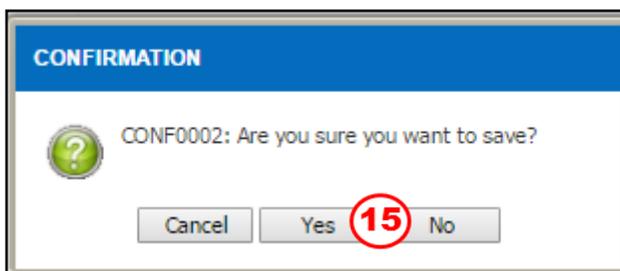


Figure 3.2-12 Confirmation Alert Message

STEP 15

Click on the button to confirm the intervention

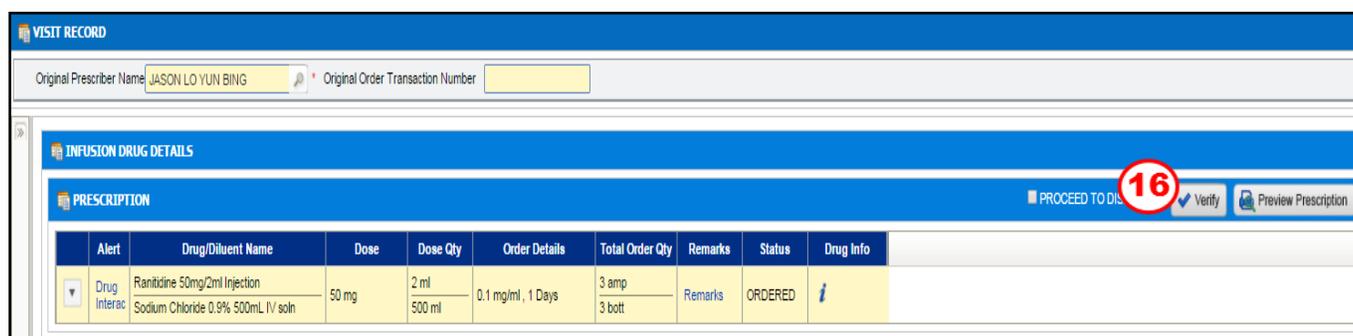


Figure 3.2-13 Medication Order : Verify

STEP 16

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

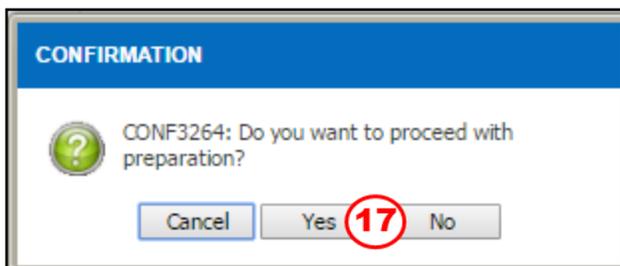


Figure 3.2-14 Alert Confirmation Message

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 HKLM00148270
Address	Phone And Email	Diagnosis	No known Allergies	
Height <input type="text"/> cm	Weight <input type="text"/> kg	BMI/BSA 0.0 m ²	Update (Last Updated :) Nationality: Warganegara	

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

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

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	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

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 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	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

|<< 1 / 1 >>|

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

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													
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															
<div style="text-align: right;">Print Original Prescription</div>															
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															
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		
<ul style="list-style-type: none"> 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 - 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	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	End Date	28/10/2014
Start Date	27/10/2014 *	Update By	Suraya Abdul Halim
Remarks		Updated Date	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 X

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"/> Deleterious		<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"/> * <input type="text" value="mg"/>	Admin Route: <input type="text" value="Intravenous Infusion"/>
Drug Volume: <input type="text" value="2"/> * <input type="text" value="ml"/>	Diluent: <input type="text" value="Sodium Chloride 0.9% 100mL IV soln"/> *
Ordered Concentration: <input type="text" value="0.8"/> <input type="text" value="mg/ml"/>	Diluent Volume: <input type="text" value="100"/> * <input type="text" value="ml"/>
Frequency: <input type="text" value="OD"/> *	Total Volume: <input type="text" value="102"/> * <input type="text" value="ml"/>
Infuse Over: <input type="text" value="2"/> * (Hour) <input type="text" value="30"/> * (Minute)	Infusion Rate: <input type="text" value="40"/> <input type="text" value="ml/Hour"/>
Duration: <input type="text" value="1"/> * <input type="text" value="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 3.2-21 Intervention

Note

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

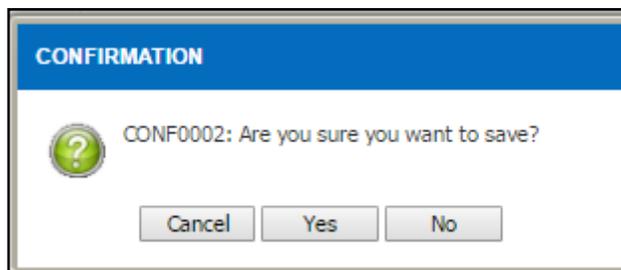


Figure 3.2-22 Alert Confirmation Message

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

INTERVENTION REASON HISTORY LISTING

X

[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 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)

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	80 mg	2 ml	0.8 mg/ml, OD, 1 Days	1 amp	1	0 amp	1 amp	Details	0 amp	Remarks	VERIFIED	Drug Info
	Sodium Chloride 0.9% 100mL		100 ml		0 bott		1 bott	0 bott					

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

Figure 3.2-24 IV Preparation

Note

Hold Order

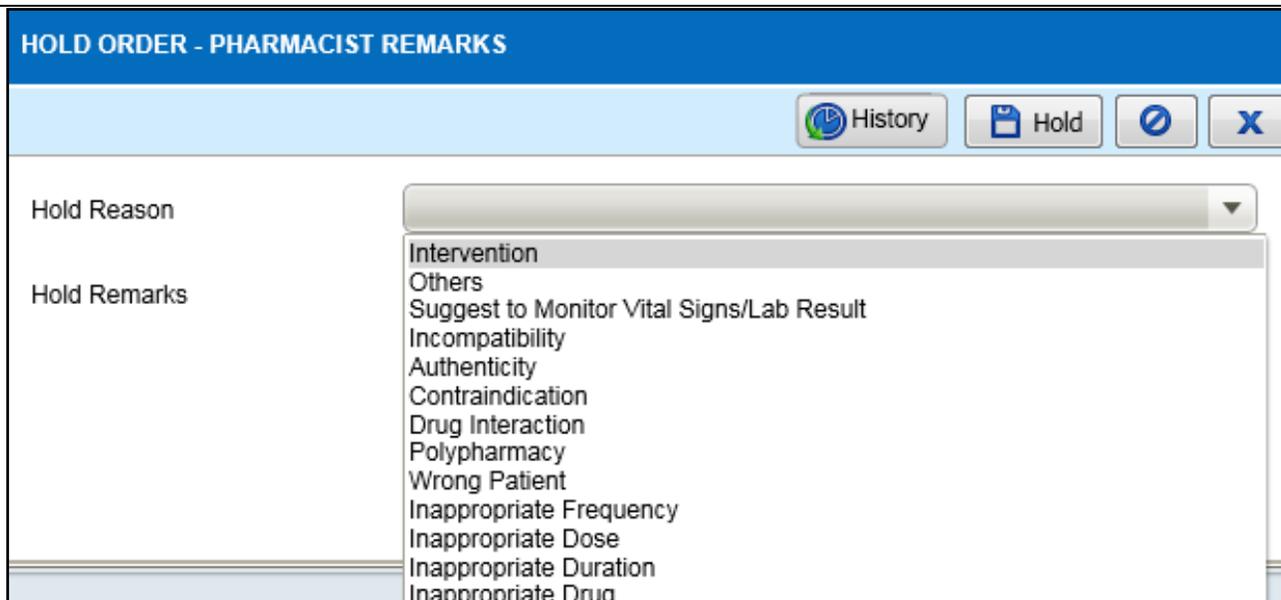
- These functions allow Pharmacist to hold medication from being prepared or dispense; may resume the medication order to continue dispensing.
- Right click on the  button and select **Hold Order** and new screen will be displayed as per Figure 3.2-27.

HOLD ORDER - PHARMACIST REMARKS History Hold X

Hold Reason: [Dropdown Menu]

Hold Remarks: [Text Area]

Figure 3.2-25 Hold Order-Pharmacist Remarks



HOLD ORDER - PHARMACIST REMARKS

History Hold

Hold Reason

Hold Remarks

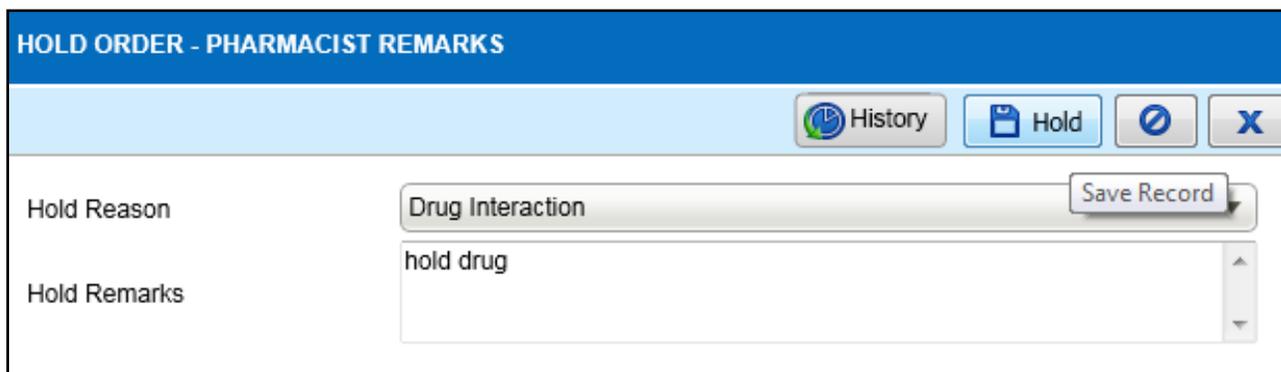
- Intervention
- Others
- Suggest to Monitor Vital Signs/Lab Result
- Incompatibility
- Authenticity
- Contraindication
- Drug Interaction
- Polypharmacy
- Wrong Patient
- Inappropriate Frequency
- Inappropriate Dose
- Inappropriate Duration
- Inappropriate Drug

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

Hold Reason

Hold Remarks

Drug Interaction Save Record

hold drug

Figure 3.2-27 Hold Order-Pharmacist Remarks

Note

Click on the  button to proceed hold transaction

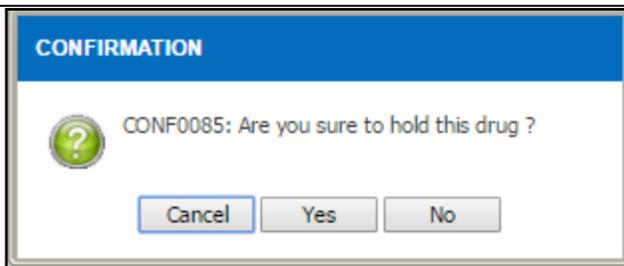


Figure 3.2-28 Alert Confirmation Message

- 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)

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   

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		0 amp 0 bott	Remarks	VERIFIED HOLD	

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)

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   

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	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		0 amp 0 bott	Remarks	VERIFIED HOLD	

Alternate Drug
Intervention
Resume Order

Figure 3.2-30 IV Preparation

Note

Resume Order

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

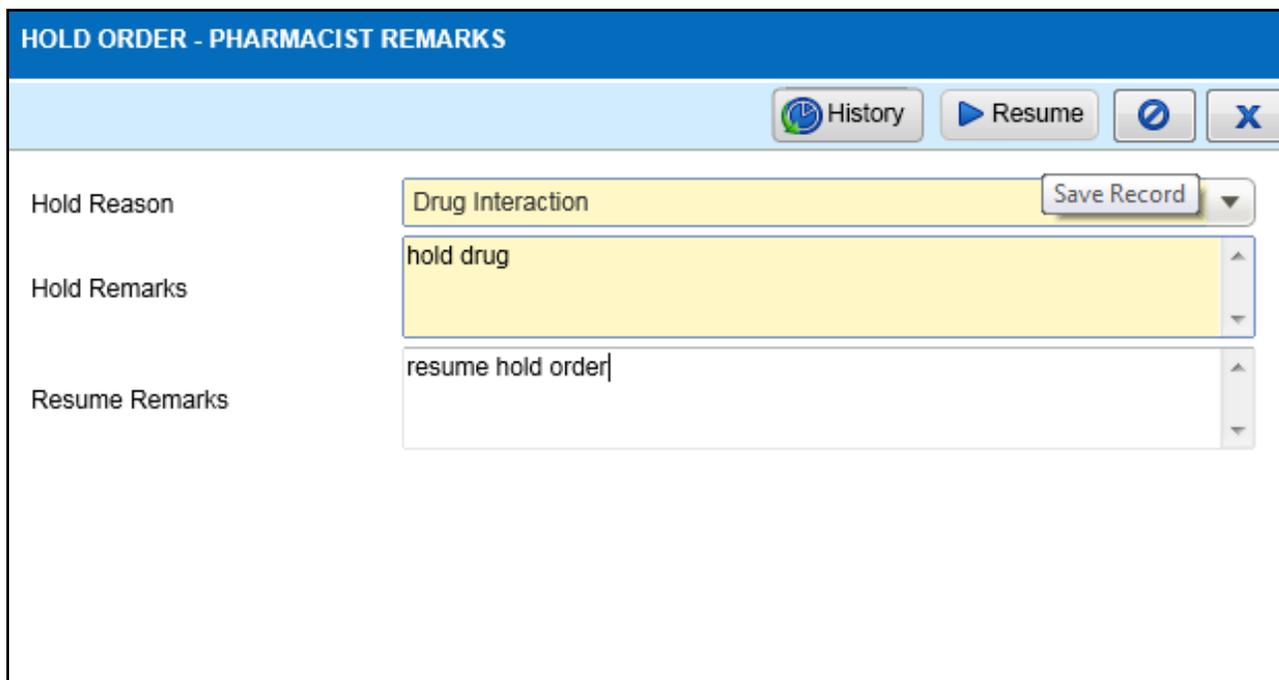
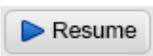
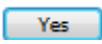


Figure 3.2-31 Hold Order-Pharmacist Remarks

Note

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

Click on the  button to release drug from hold.

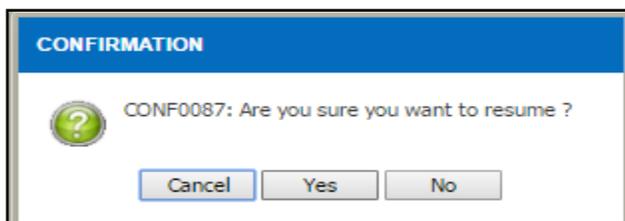


Figure 3.2-32 Alert Confirmation Message

IV PREPARATION

Print Original Prescription [X]

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

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)

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: [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	0 18	1 amp 1 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]

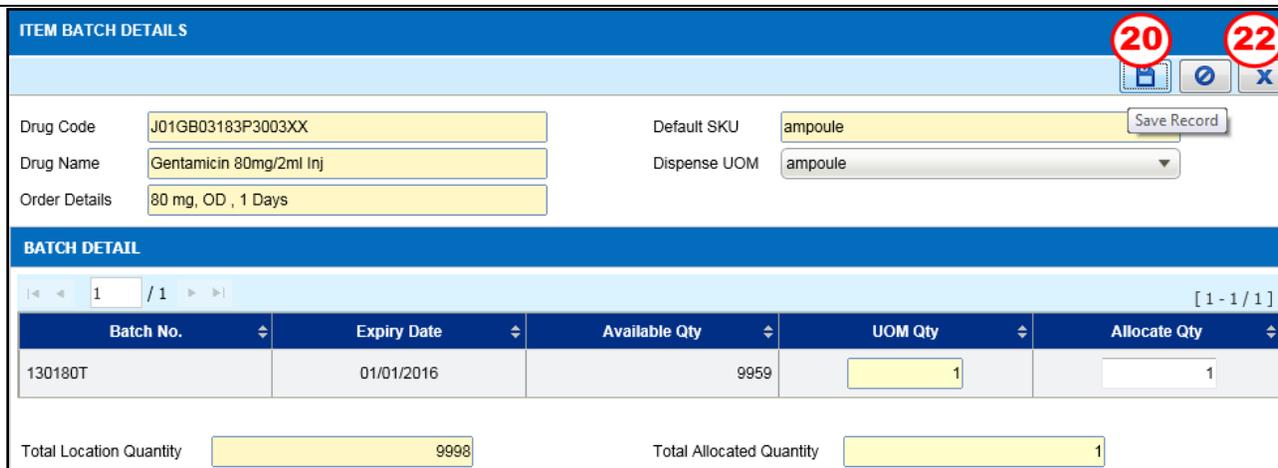
Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
130180T	01/01/2016	9959	1	1

Total Location Quantity: 9998 Total Allocated Quantity: 1

Figure 3.2-34 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

Figure 3.2-35 Item Batch Details

STEP 20

Click on the  button to proceed allocation

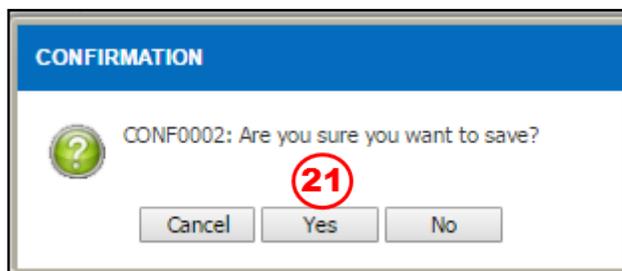


Figure 3.2-36 Alert Confirmation Message

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

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
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	23 <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 Area]

[Save] [Close] [X]

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 [Save] 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.

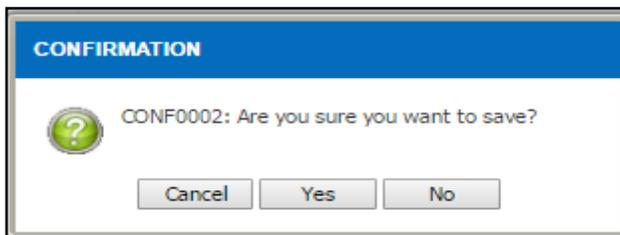
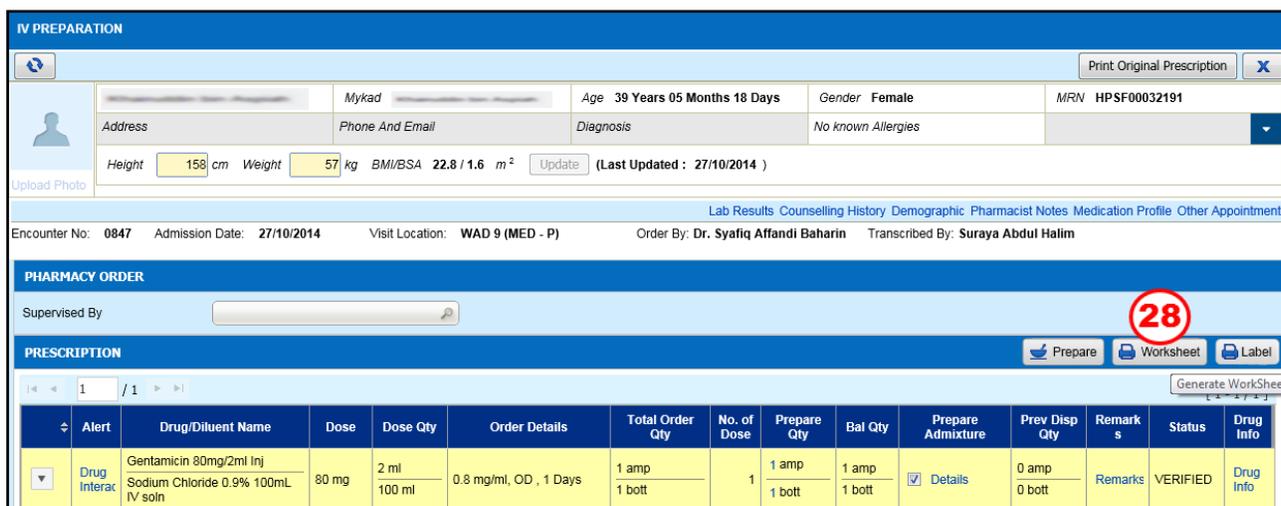


Figure 3.2-39 Alert Confirmation Details

STEP 27

Click on  button to proceed worksheet



IV PREPARATION

Print Original Prescription 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)

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

Generate WorkSheet

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 3.2-40 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 750509145804			Rx. No. FBW0000017897		
Order Location WAD 9 (MED - P)			Ordered By Dr. Syafiq Affandi Baharin			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	Gentamioin 0.8 mg/ml	Gentamioin 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	
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 1	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

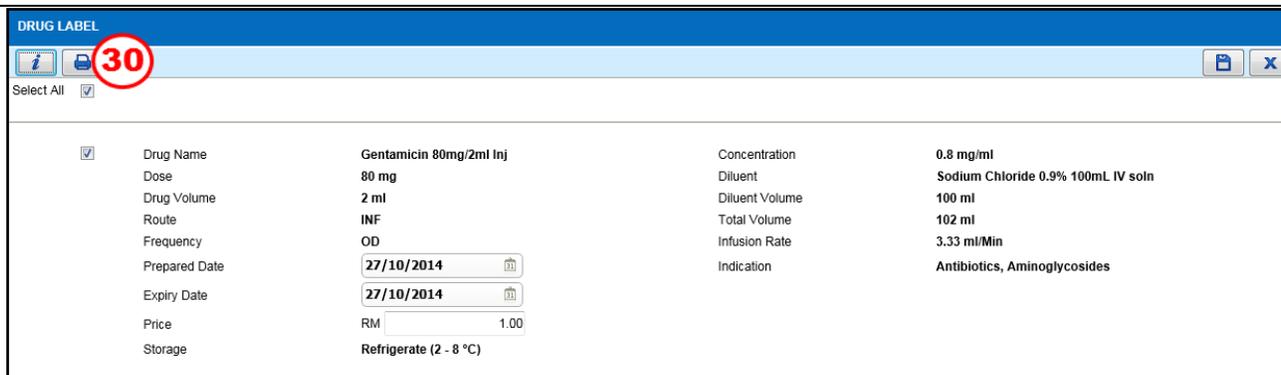
PRESCRIPTION

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"/>	Gentamioin 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
	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott		1 bott	1 bott		0 bott			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.

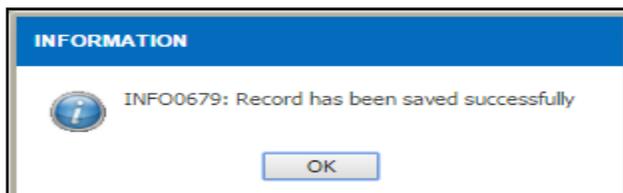


Figure 3.2-44 Alert Information Message

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 100ml 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

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

31

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.

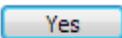
CONFIRMATION



CONF7041: Do you want to proceed with dispensing screen?

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)

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

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)

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

33

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

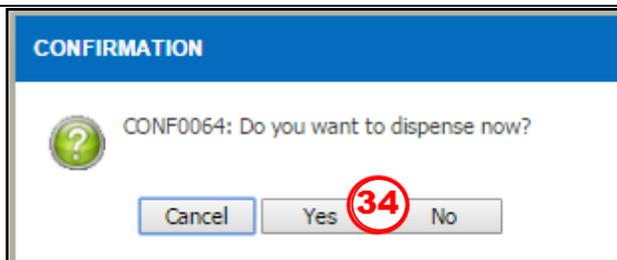
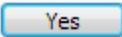


Figure 3.2-50 Alert Confirmation Message

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.

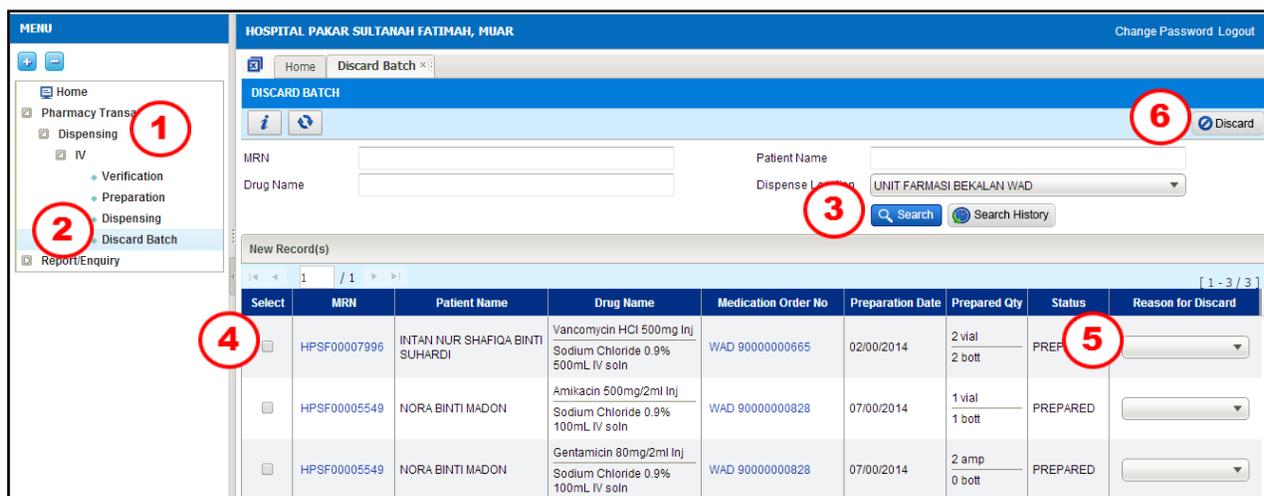


Figure 3.3-1 IV Dispensing : Release/Discard

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		