



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

Pharmacy Based

User Manual Infusion Order

Version	: 12th Edition
Document ID	: PB_U. MANUAL_INFUSION ORDER



PhIS & CPS Project
User Manual – IV (Infusion)



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Application reference: PhIS & CPS v2.5



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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

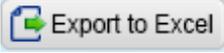
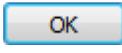
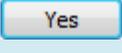
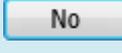
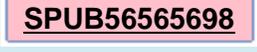
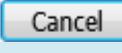
1.3 Organised Sections

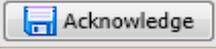
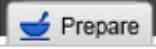
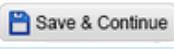
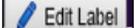
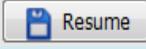
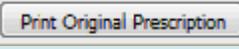
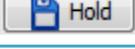
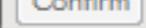
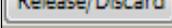
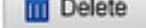
These are the sections within this document:

- 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

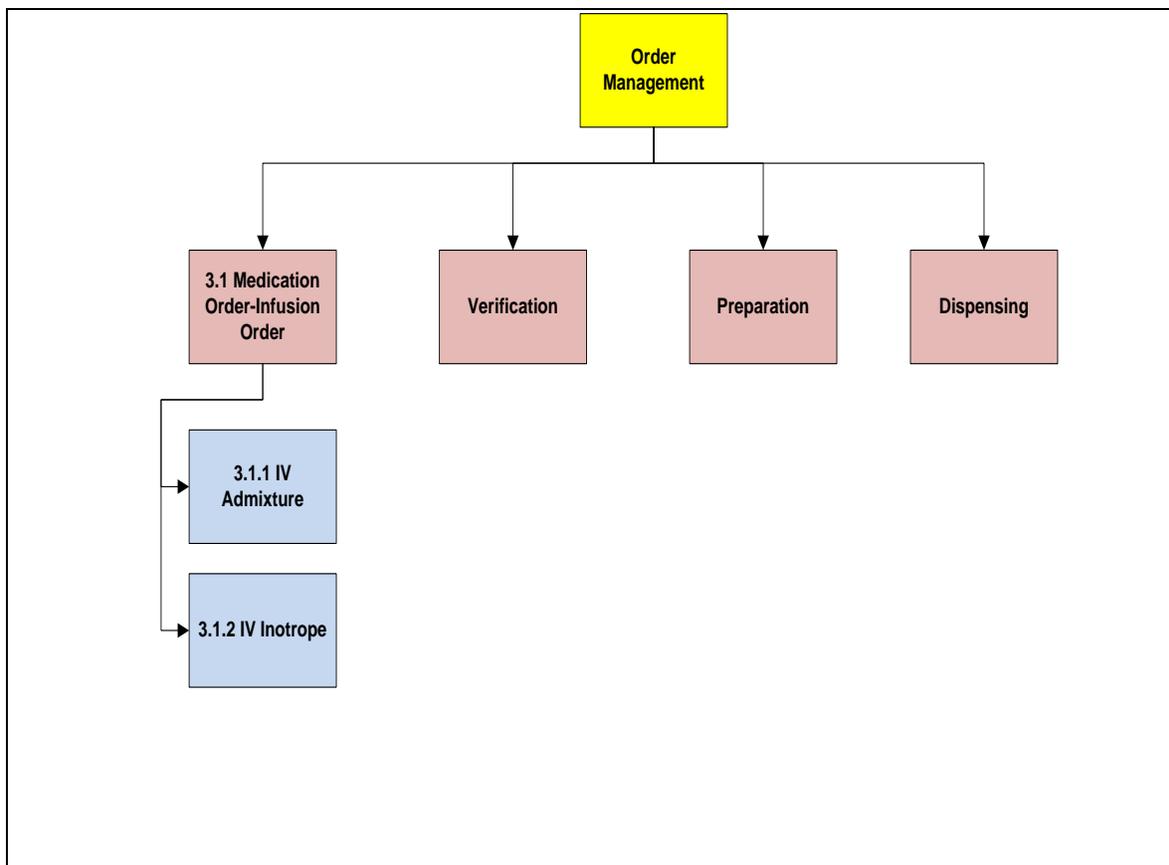


Figure 3.0-1

Functional Description

Admixture comprises of six (6) 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**

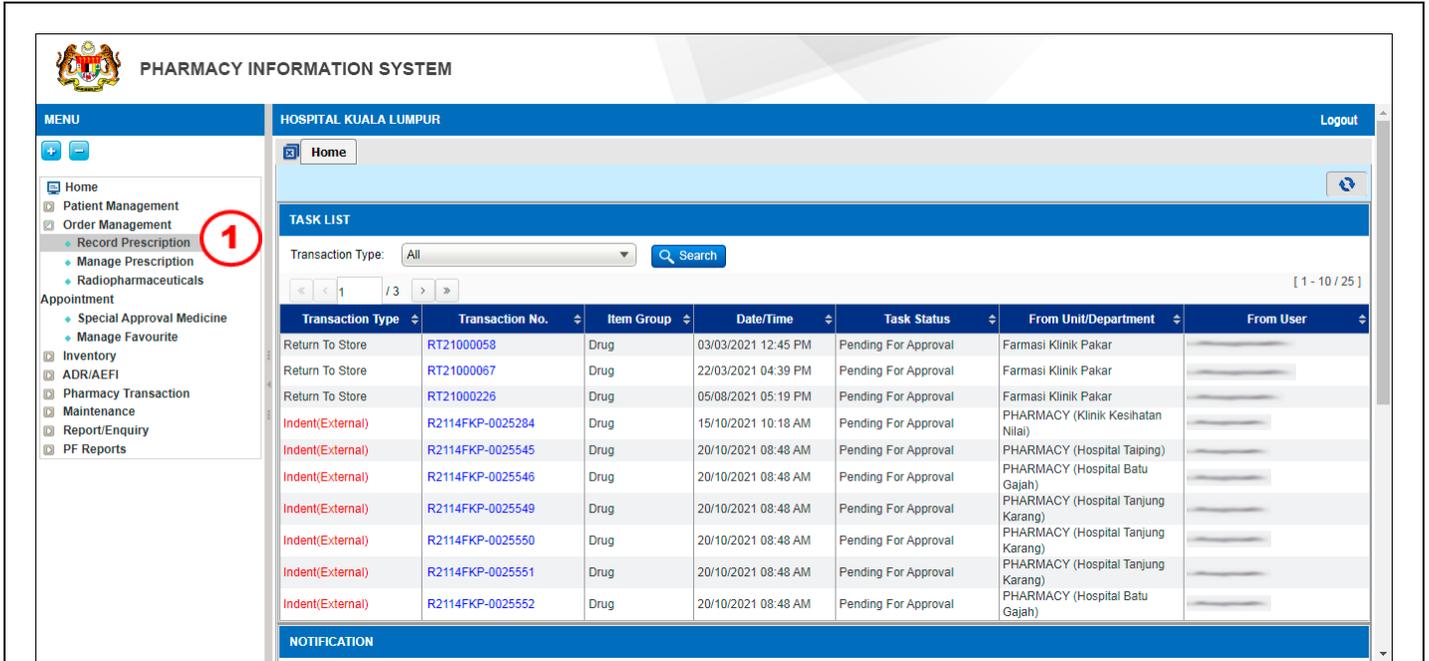
Release batch function will be used when user decide to un-packed the reserved/prepared drugs. All the release drugs such as tablets, capsule and other than liquid will be stocked back into inventory

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.



The screenshot shows the 'PHARMACY INFORMATION SYSTEM' interface for 'HOSPITAL KUALA LUMPUR'. On the left is a 'MENU' sidebar with 'Record Prescription' circled in red with a '1'. The main area displays a 'TASK LIST' table with columns: Transaction Type, Transaction No., Item Group, Date/Time, Task Status, From Unit/Department, and From User. The table contains several rows of data, including 'Return To Store' and 'Indent(External)' transactions.

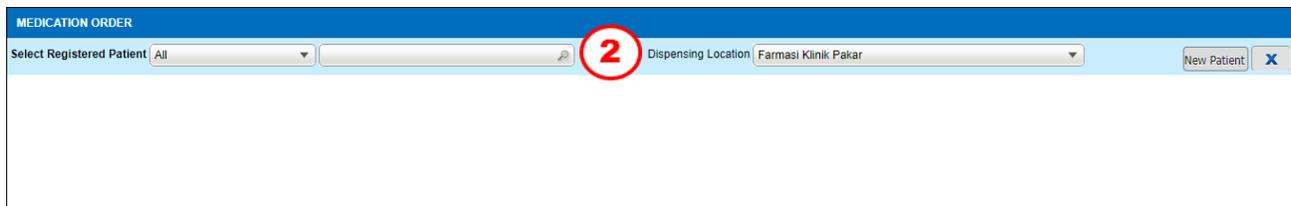
Figure 3.1.1-1 PhIS Home Page

STEP 1

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

Note

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



The screenshot shows the 'MEDICATION ORDER' screen. At the top, there are dropdown menus for 'Select Registered Patient' (set to 'All') and 'Dispensing Location' (set to 'Farmasi Klinik Pakar'). A search button with a magnifying glass icon is circled in red with a '2'. There is also a 'New Patient' button with an 'X' icon.

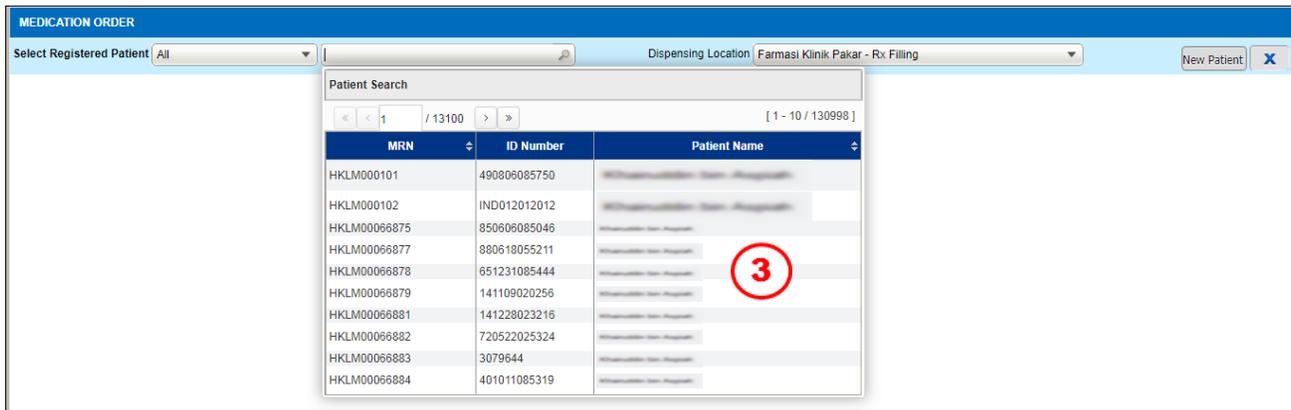
Figure 3.1.1-2 Medication Order

STEP 2

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  button.

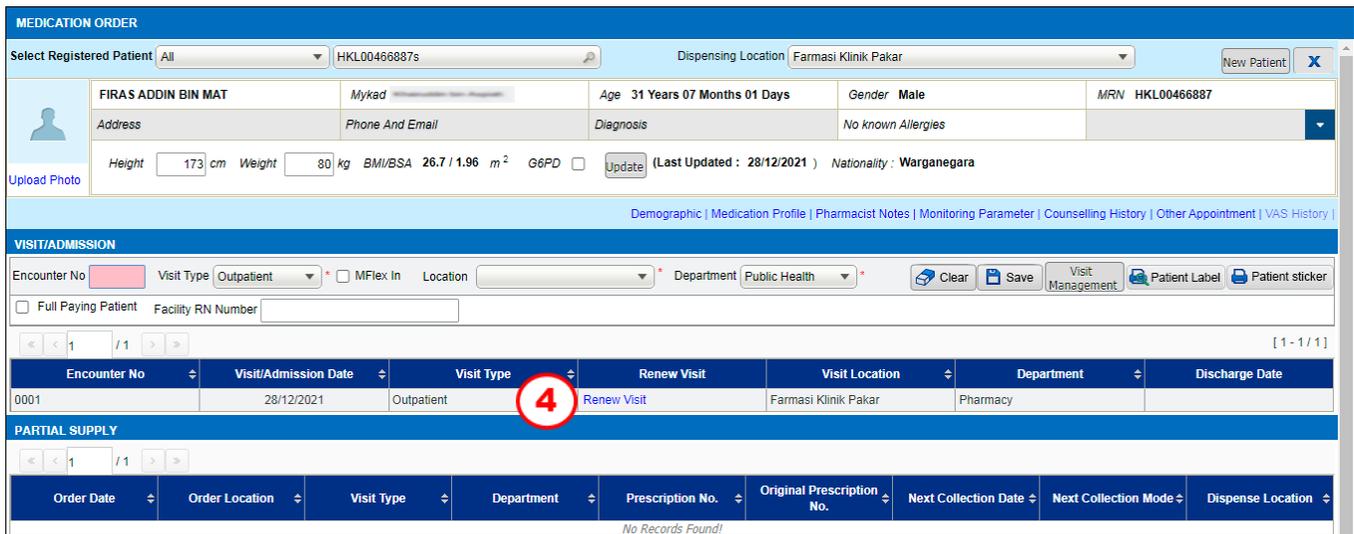


MRN	ID Number	Patient Name
HKLM000101	490806085750	[Redacted]
HKLM000102	IND012012012	[Redacted]
HKLM00066875	850606085046	[Redacted]
HKLM00066877	880618055211	[Redacted]
HKLM00066878	651231085444	[Redacted]
HKLM00066879	141109020256	[Redacted]
HKLM00066881	141228023216	[Redacted]
HKLM00066882	720522025324	[Redacted]
HKLM00066883	3079644	[Redacted]
HKLM00066884	401011085319	[Redacted]

Figure 3.1.1-3 Medication Order

STEP 3

Double-click on the selected patient and the details will be displayed as per Figure 3.1.1-4



Encounter No	Visit/Admission Date	Visit Type	Renew Visit	Visit Location	Department	Discharge Date
0001	28/12/2021	Outpatient	Renew Visit	Farmasi Klinik Pakar	Pharmacy	

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 4

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

MEDICATION ORDER

Select Registered Patient: All | HKL00466887 | Dispensing Location: Farmasi Klinik Pakar | New Patient X

	FIRAS ADDIN BIN MAT	Mykad: [REDACTED]	Age: 31 Years 07 Months 01 Days	Gender: Male	MRN: HKL00466887
Address		Phone And Email		Diagnosis	
Height: 173 cm		Weight: 80 kg		BMI/BSA: 26.7 / 1.96 m ²	
G6PD: <input type="checkbox"/>		Update (Last Updated: 29/12/2021)		Nationality: Warganegara	

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

VISIT/ADMISSION

Encounter No: 0001 | Visit Type: Inpatient | Location: Wad NW18B (Perubatan) | Department: General Medicin | Clear | Visit Management | Patient Label | Patient sticker

Facility RN Number: WD0221 | Bed No: | MFlex In

VISIT RECORD

Queue Series: Normal | Queue No: | Discharge Medication | Original Prescription Serial Number: | Clinic TCA:

Patient Diagnosis

Allergy

Adverse Drug Reaction

Nutritional Assessment

Normal Order

Infusion Order

Parenteral Nutrition

Cytotoxic Drug

NORMAL ORDER - DRUG DETAILS

Total Price : RM 0.00

Alert	Drug Name	Order Details	Order Qty	Drug Info	
-------	-----------	---------------	-----------	-----------	--

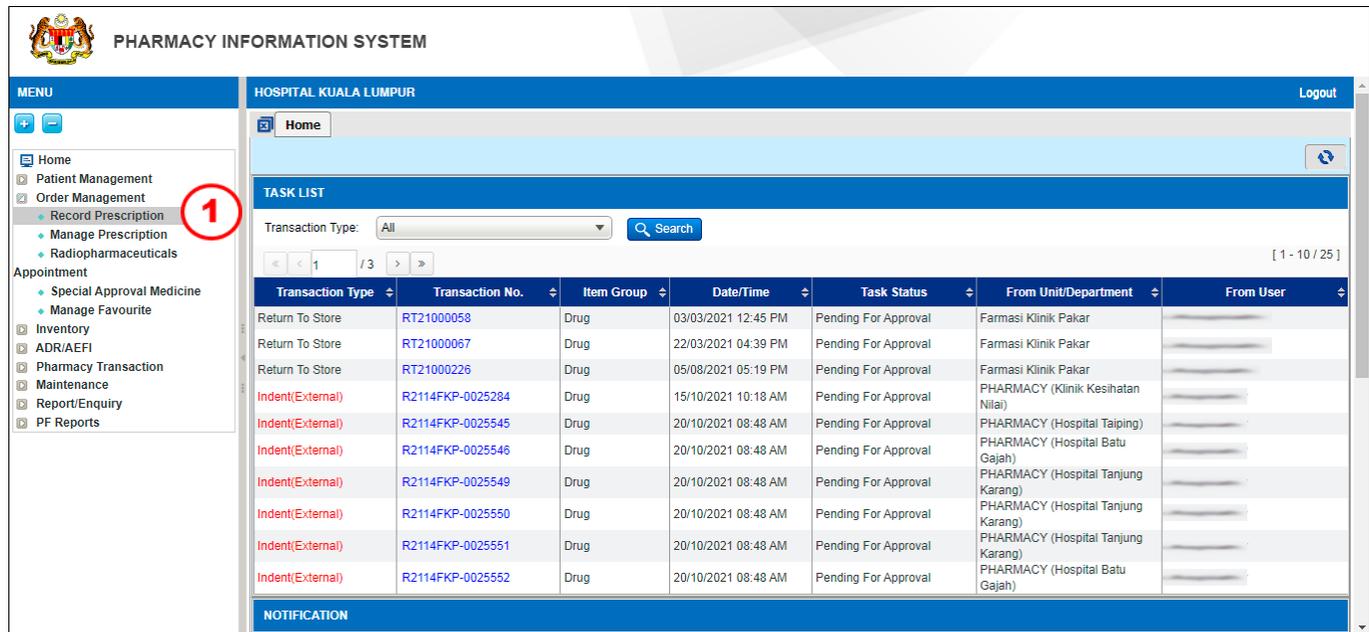
Original Prescriber Name	<input type="text"/>	<input type="button" value="Advanced Search"/>
Drug	<input type="text"/>	
Dosage	0	
Admin Route	<input type="text"/>	
Frequency	<input type="text"/>	<input type="button" value="Dosage Schedule"/>

Patient Own Medication
 Ward Stock
 Patient Require Counselling

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 KUALA LUMPUR Logout

Home

TASK LIST

Transaction Type: All

[1 - 10 / 25]

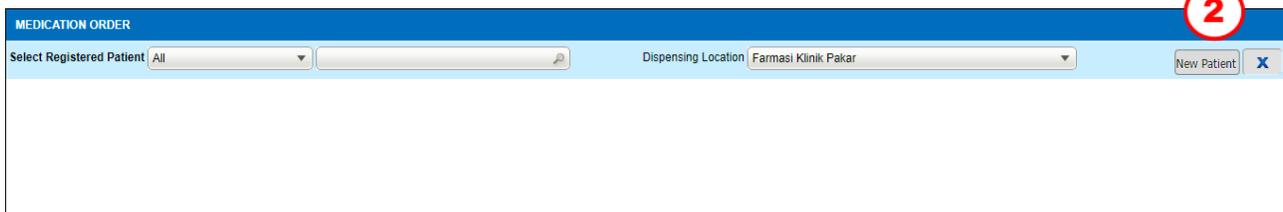
Transaction Type	Transaction No.	Item Group	Date/Time	Task Status	From Unit/Department	From User
Return To Store	RT21000058	Drug	03/03/2021 12:45 PM	Pending For Approval	Farmasi Klinik Pakar	
Return To Store	RT21000067	Drug	22/03/2021 04:39 PM	Pending For Approval	Farmasi Klinik Pakar	
Return To Store	RT21000226	Drug	05/08/2021 05:19 PM	Pending For Approval	Farmasi Klinik Pakar	
Indenti(External)	R2114FKP-0025284	Drug	15/10/2021 10:18 AM	Pending For Approval	PHARMACY (Klinik Kesihatan Nilai)	
Indenti(External)	R2114FKP-0025545	Drug	20/10/2021 08:48 AM	Pending For Approval	PHARMACY (Hospital Taiping)	
Indenti(External)	R2114FKP-0025546	Drug	20/10/2021 08:48 AM	Pending For Approval	PHARMACY (Hospital Batu Gajah)	
Indenti(External)	R2114FKP-0025549	Drug	20/10/2021 08:48 AM	Pending For Approval	PHARMACY (Hospital Tanjung Karang)	
Indenti(External)	R2114FKP-0025550	Drug	20/10/2021 08:48 AM	Pending For Approval	PHARMACY (Hospital Tanjung Karang)	
Indenti(External)	R2114FKP-0025551	Drug	20/10/2021 08:48 AM	Pending For Approval	PHARMACY (Hospital Tanjung Karang)	
Indenti(External)	R2114FKP-0025552	Drug	20/10/2021 08:48 AM	Pending For Approval	PHARMACY (Hospital Batu Gajah)	

NOTIFICATION

Figure 3.1.2-1 PhIS Home page

STEP 1

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



MEDICATION ORDER

Select Registered Patient: All Dispensing Location: Farmasi Klinik Pakar

Figure 3.1.2-2 Transcribe Order Create New Patient

STEP 2

Click on button to create new patient

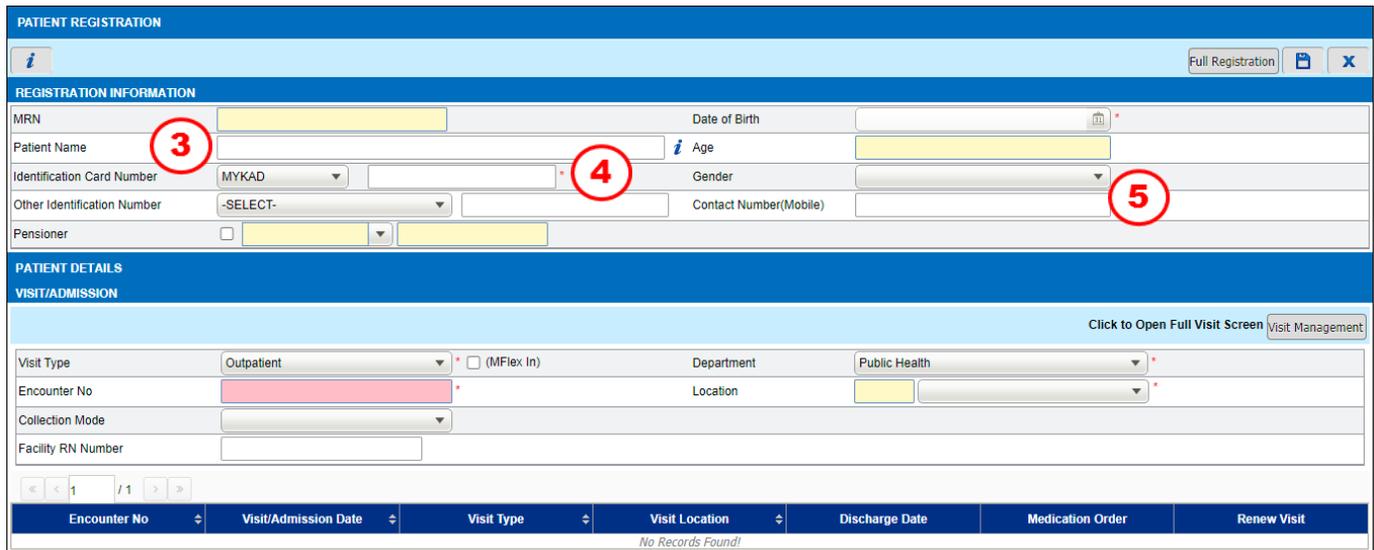


Figure 3.1.2-3 Registration Information

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
 - MYKAS
 - MYPR
 - OLD IC
 - OTHERS
 - PASSPORT
 - PENSION CARD
 - POLICE CARD NUMBER
 - UNHCR
 - UNKNOWN PATIENT
 - WORK PERMITand enter the relevant number.

STEP 5

Enter **Contact Number (Mobile)**

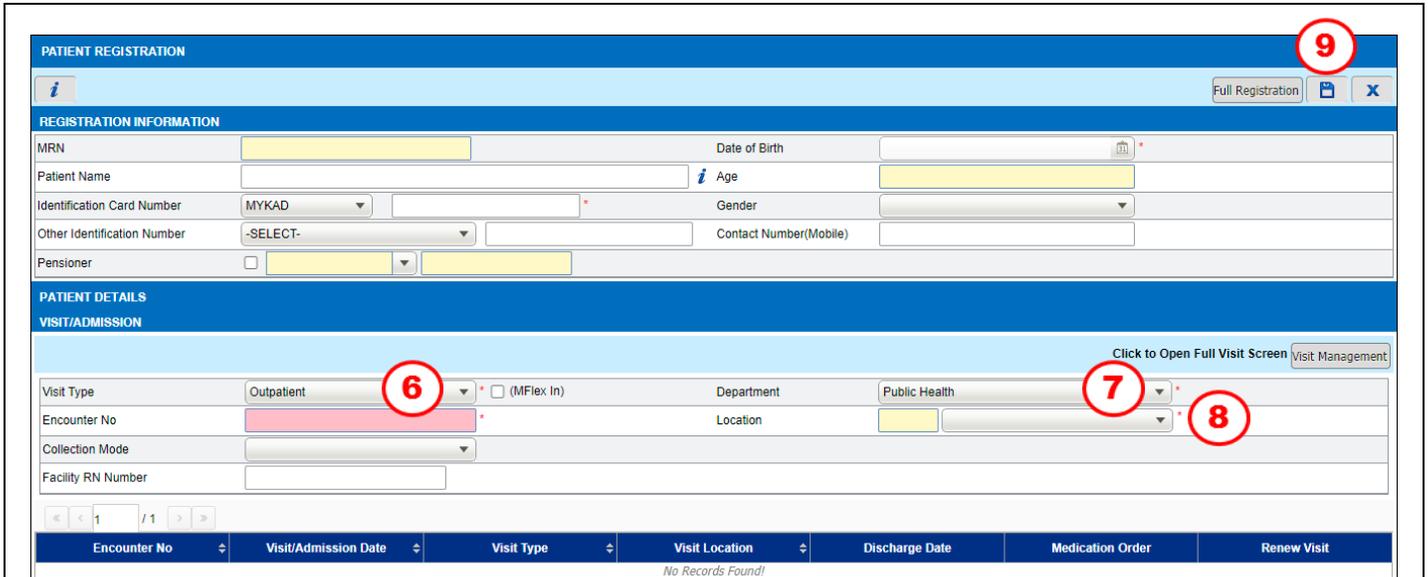


Figure 3.1.2-4 Visit/Admission

STEP 6

Select the **Visit Type** from dropdown box

- Daycare
- Emergency
- Inpatient
- Outpatient
- Outsource
- PAC
- SPUB
- Walk-In

Note

- User able to use (MFlex In) checkbox. (MFlex In) is not necessary used to create new visit for Methadone patient but it's used to indicate that this patient as Methadone patient.
- User able to select collection mode as:
 - Appointment Card
 - Email and Take
 - Fax and Take
 - Normal Collection
 - Others
 - Comm. Apps in Smart Phone
 - Telephone And Take
 - UMP
 - Locker4U
 - Leave and Collect
 - Walk-in/Without Appointment

STEP 7

Select the **Department** from dropdown box:

Note

Department will tie to the selected visit type.

STEP 8

Select **Location** from dropdown box

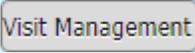
Note

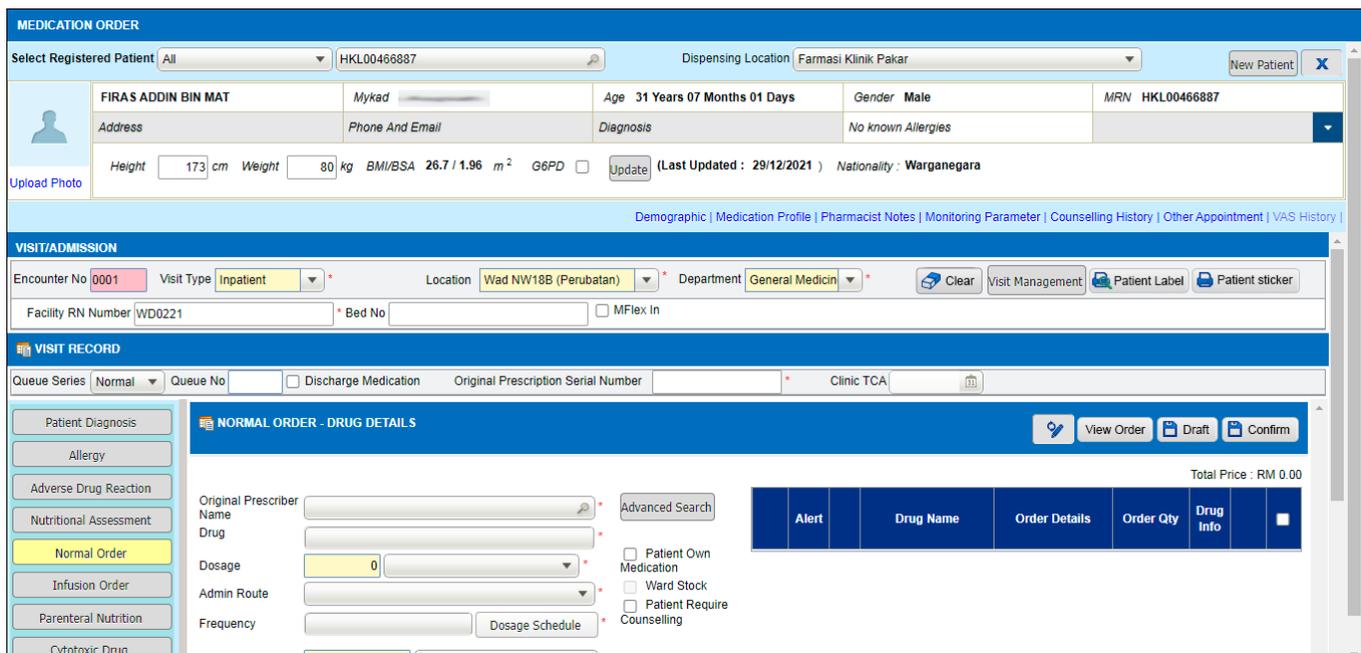
Location will tie to the selected Department.

STEP 9

Click on the  button to save the record

Note

- After clicking 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

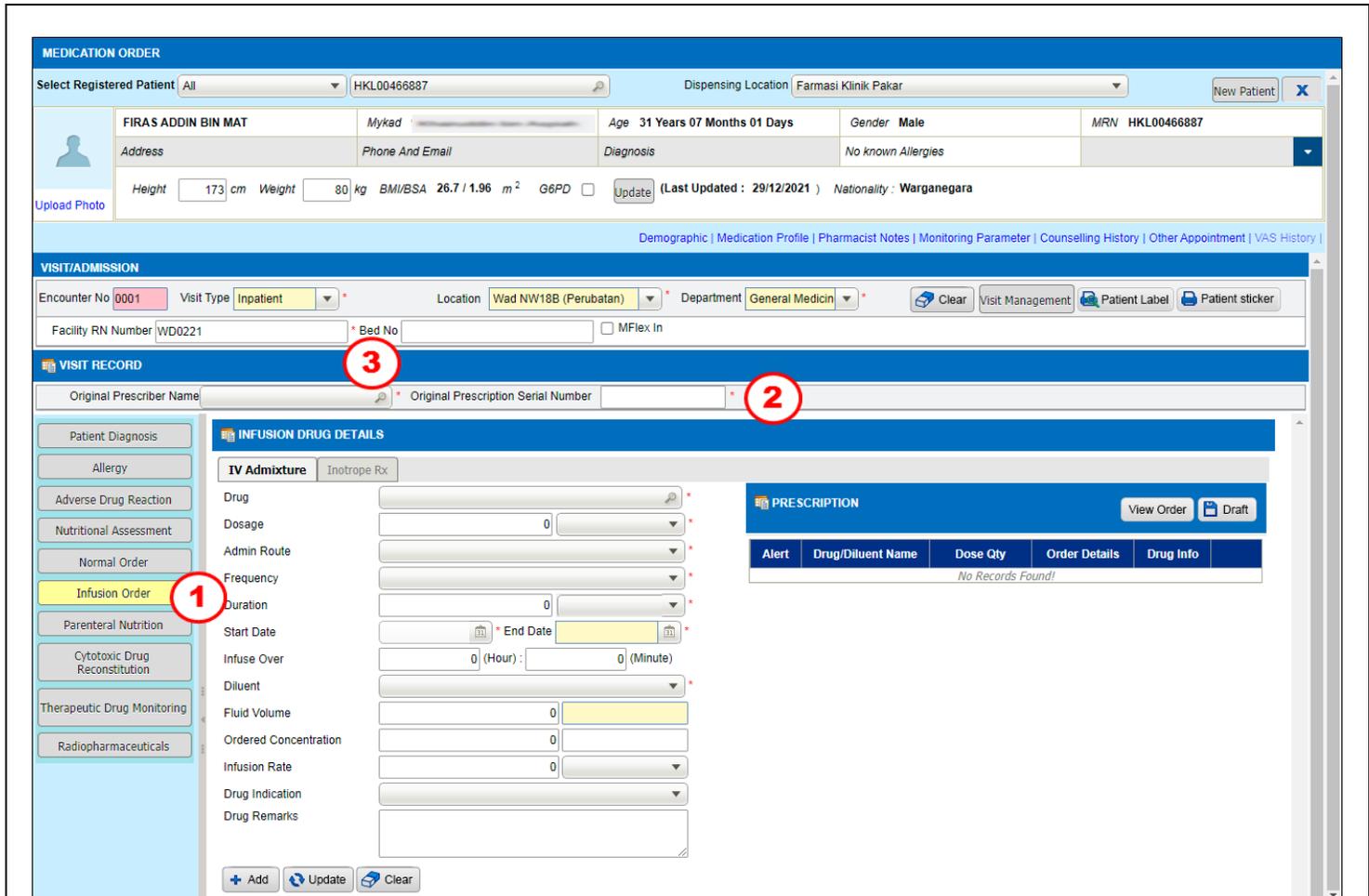


The screenshot displays the 'MEDICATION ORDER' interface. At the top, it shows the 'Select Registered Patient' dropdown set to 'All' and the patient ID 'HKL00466887'. The 'Dispensing Location' is 'Farmasi Klinik Pakar'. Below this, patient details for 'FIRAS ADDIN BIN MAT' are shown, including age (31 years 07 months 01 days), gender (Male), and MRN (HKL00466887). Physical attributes like height (173 cm) and weight (80 kg) are also listed. The 'VISIT/ADMISSION' section shows an 'Inpatient' visit type at 'Wad NW18B (Perubatan)' in the 'General Medicin' department. The 'VISIT RECORD' section includes options for 'Normal', 'Infusion Order', and 'Parenteral Nutrition'. The 'NORMAL ORDER - DRUG DETAILS' section is active, showing fields for 'Original Prescriber Name', 'Drug', 'Dosage', and 'Admin Route'. A table with columns 'Alert', 'Drug Name', 'Order Details', 'Order Qty', and 'Drug Info' is visible. The total price is listed as 'RM 0.00'.

Figure 3.1.2-5 Medication Order

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 displays the 'MEDICATION ORDER' interface. At the top, it shows patient selection (FIRAS ADDIN BIN MAT) and dispensing location (Farmasi Klinik Pakar). Below this, patient demographics and medical history are visible. The 'VISIT/ADMISSION' section includes encounter and visit type information. The 'VISIT RECORD' section contains fields for 'Original Prescriber Name' and 'Original Prescription Serial Number', with red circles 2 and 3 highlighting them. The 'INFUSION DRUG DETAILS' section is active, showing fields for drug, dosage, route, frequency, duration, start/end dates, and infusion rate. A red circle 1 highlights the 'Infusion Order' tab in the left-hand menu. A 'PRESCRIPTION' table is shown on the right, currently empty.

Figure 3.2-1 Medication Order

STEP 1

Click on the **Infusion Order** tab

STEP 2

Enter **Original Prescription Serial Number**

STEP 3

Click on the  button to search **Original Prescriber Name** as shown in Figure 3.2-2

Search	
[1 - 10 / 3313]	
Prescriber Name	Department/Discipline
[Redacted]	Nuclear Medicine
[Redacted]	General Medicine
[Redacted]	Radiology
[Redacted]	General Medicine
[Redacted]	General Medicine
[Redacted]	Orthopaedic
[Redacted]	Breast And Endocrine Surgery
[Redacted]	Histopathology (Anatomical Pathology)
[Redacted]	Ophthalmology
[Redacted]	Orthopaedic

Figure 3.2-2 List of Prescriber Name

STEP 4

Double click on the selected prescriber

MEDICATION ORDER

Select Registered Patient: All | HKL00466887 | Dispensing Location: Farmasi Klinik Pakar | New Patient

FIRAS ADDIN BIN MAT	Mykad	Age 31 Years 07 Months 01 Days	Gender Male	MRN HKL00466887
Address	Phone And Email	Diagnosis	No known Allergies	
Height 173 cm	Weight 80 kg	BMI/BSA 26.7 / 1.96 m ²	G6PD	Update (Last Updated : 29/12/2021) Nationality : Warganegara

Demographic | Medication Profile | Pharmacist Notes | Monitoring Parameter | Counselling History | Other Appointment | VAS History

VISIT/ADMISSION

Encounter No 0001 | Visit Type Inpatient | Location Wad NW18B (Perubatan) | Department General Medicin

Facility RN Number WD0221 | Bed No | MFlex In

VISIT RECORD

Original Prescriber Name | Original Prescription Serial Number E44336

INFUSION DRUG DETAILS

IV Admixture Inotrope Rx

Drug

Dosage

Admin Route

Frequency

Duration

Start Date

Infuse Over 0 (Hour) : 0 (Minute)

Diluent

Fluid Volume

Ordered Concentration

Infusion Rate

Drug Indication

Drug Remarks

+ Add | Update | Clear

PRESCRIPTION
View Order | Draft

Alert	Drug/Diluent Name	Dose Qty	Order Details	Drug Info
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

Drug/Active Ingredient Search X			
Drug/Active Ingredient/Trade Name <input type="text"/>			Search
<input type="button" value="<"/> <input type="button" value="1"/> <input type="button" value="/ 8"/> <input type="button" value=">"/> <input type="button" value="»"/>			[1 - 20 / 145]
Dosage Form	Drug Name	Active Ingredient	Category
Parenteral Solution	Erythromycin Lactobionate 500 mg Injection	Erythromycin	A*
Parenteral Solution	Cefotaxime 500mg Injection	Cefotaxime	A
Parenteral Solution	Chloramphenicol 1g Injection	Chloramphenicol	B
Parenteral Solution	Calcitonin (Synthetic Salmon) 50 IU Injection	Calcitonin	A*
Powder for IV Soln	Desferrioxamine 500mg Injection	Desferrioxamine (Desferrioxamine)	A
Parenteral Solution	Meropenem 500mg Injection	Meropenem	A*
Parenteral Solution	Meropenem 1000mg Injection (1g)	Meropenem	A*
Parenteral Solution	Ertapenem 1g Injection	Ertapenem	A*
Parenteral Solution	Cefotaxime 1g Injection	Cefotaxime	A
Powder for IV Soln	Alteplase 50mg/50ml Powder for Injection (rTPA)	Alteplase	A
Parenteral Solution	Ceftriaxone 1g Injection	Ceftriaxone	A
Parenteral Solution	Calcitonin (synthetic Salmon) 100 IU Injection	Calcitonin	A*
Parenteral Solution	Cefuroxime 750mg Injection	Cefuroxime	A
Parenteral Solution	Imipenem 500mg+Cilastatin Injection	Imipenem+ cilastatin	A*
Parenteral Solution	Doripenem 500mg/10ml Injection	Doripenem	A*
Parenteral Solution	Clarithromycin 500mg Injection	Clarithromycin	A*

Figure 3.2-4 Drug/Active Ingredient Search

Note

Double click on the selected drug.

MEDICATION ORDER

Select Registered Patient: All | HKL00466887 | Dispensing Location: Farmasi Klinik Pakar | New Patient X

	FIRAS ADDIN BIN MAT	Mykad: [REDACTED]	Age: 31 Years 07 Months 01 Days	Gender: Male	MRN: HKL00466887
Address		Phone And Email		Diagnosis	
Height: 173 cm		Weight: 80 kg		BMI/BSA: 26.7 / 1.96 m ²	
G6PD: <input type="checkbox"/>		Update (Last Updated: 29/12/2021)		Nationality: Warganegara	

Demographic | Medication Profile | Pharmacist Notes | Monitoring Parameter | Counselling History | Other Appointment | VAS History |

VISIT/ADMISSION

Encounter No: 0001 | Visit Type: Inpatient | Location: Wad NW18B (Perubatan) | Department: General Medicin | Clear | Visit Management | Patient Label | Patient sticker

Facility RN Number: WD0221 | Bed No: | MFlex In

VISIT RECORD

Original Prescriber Name: Dr Mu'iz Bin Mohd Hazizan | Original Prescription Serial Number: E44336

- Patient Diagnosis
- Allergy
- Adverse Drug Reaction
- Nutritional Assessment
- Normal Order
- Infusion Order
- Parenteral Nutrition
- Cytotoxic Drug Reconstitution
- Therapeutic Drug Monitoring
- Radiopharmaceuticals

INFUSION DRUG DETAILS

IV Admixture | Inotrope Rx

Drug	Urokinase 6,000 IU Injection		
Dosage	6000	IU	
Admin Route	IV Bolus		
Frequency	STAT		
Duration	1	Days	
Start Date	29/12/2021 1:04	End Date	30/12/2021 1:04 PM
Infuse Over	0 (Hour) : 0 (Minute)		
Diluent	Sodium Chloride 0.9%, 50ml IV Solution		
Fluid Volume	1	ml	
Ordered Concentration	6000	IU/ml	
Infusion Rate	0	ml/Min	
Drug Indication	Thromboembolic disorders		
Drug Remarks			

6

PRESCRIPTION

Alert	Drug/Diluent Name	Dose Qty	Order Details	Drug Info
No Records Found!				

7 + Add ↻ Update 🗑 Clear

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 + Add button to add drug in prescription section as per Figure 3.2-6

MEDICATION ORDER

Select Registered Patient: All | HKL00466887 | Dispensing Location: Farmasi Klinik Pakar | New Patient X

Patient Information:
 Name: FIRAS ADDIN BIN MAT | Mykad: [Redacted] | Age: 31 Years 07 Months 01 Days | Gender: Male | MRN: HKL00466887
 Address: [Redacted] | Phone And Email: [Redacted] | Diagnosis: [Redacted] | No known Allergies
 Height: 173 cm | Weight: 80 kg | BMI/BSA: 26.7 / 1.96 m² | G6PD: | Update (Last Updated: 29/12/2021) | Nationality: Warganegara

VISIT/ADMISSION
 Encounter No: 0001 | Visit Type: Inpatient | Location: Wad NW18B (Perubatan) | Department: General Medicin | Clear | Visit Management | Patient Label | Patient sticker
 Facility RN Number: WD0221 | Bed No: [Redacted] | MFlex In:

VISIT RECORD
 Original Prescriber Name: [Redacted] | Original Prescription Serial Number: E44336

INFUSION DRUG DETAILS

IV Admixture | Inotrope Rx

Drug: [Redacted] | Dosage: 0 | Admin Route: [Redacted] | Frequency: [Redacted] | Duration: 0 | Start Date: [Redacted] | End Date: [Redacted] | Infuse Over: 0 (Hour) : 0 (Minute)

PRESCRIPTION | View Order | Draft

Alert	Drug/Diluent Name	Dose Qty	Order Details	Drug Info
Drug Interactio	Urokinase 6,000 IU Injection	1 ml	6000 IU, STAT, 1 Days	[Info] [Trash]
	Sodium Chloride 0.9%, 50ml IV Solution	1 ml		
	Alteplase 50mg/50ml			

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

MEDICATION ORDER

Select Registered Patient: All | HKL00466887 | Dispensing Location: Farmasi Klinik Pakar | New Patient X

Patient Information:
 Name: FIRAS ADDIN BIN MAT | Mykad: [Redacted] | Age: 31 Years 07 Months 01 Days | Gender: Male | MRN: HKL00466887
 Address: [Redacted] | Phone And Email: [Redacted] | Diagnosis: [Redacted] | No known Allergies
 Height: 173 cm | Weight: 80 kg | BMI/BSA: 26.7 / 1.96 m² | G6PD: | Update (Last Updated: 29/12/2021) | Nationality: Warganegara

VISIT/ADMISSION
 Encounter No: 0001 | Visit Type: Inpatient | Location: Wad NW18B (Perubatan) | Department: General Medicin | Clear | Visit Management | Patient Label | Patient sticker
 Facility RN Number: WD0221 | Bed No: [Redacted] | MFlex In:

VISIT RECORD
 Original Prescriber Name: [Redacted] | Original Prescription Serial Number: E44336

INFUSION DRUG DETAILS

IV Admixture | Inotrope Rx

Drug: [Redacted] | Dosage: 0 | Admin Route: [Redacted] | Frequency: [Redacted] | Duration: 0 | Start Date: [Redacted] | End Date: [Redacted] | Infuse Over: 0 (Hour) : 0 (Minute)

PRESCRIPTION | View Order | Draft | Confirm

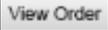
Alert	Drug/Diluent Name	Dose Qty	Order Details	Drug Info
Drug Interactio	Urokinase 6,000 IU Injection	1 ml	6000 IU, STAT, 1 Days	[Info] [Trash]
	Sodium Chloride 0.9%, 50ml IV Solution	1 ml		
	Alteplase 50mg/50ml			

Figure 3.2-7 Infusion Drug Details

STEP 9

Click on the  button to confirm the prescription

Note

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

ORDER DETAILS						
Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status
Urokinase 6,000 IU Injection	6000 IU	1 ml	6000 IU/ml, STAT , 1 Days	1 vial		DRAFT
Sodium Chloride 0.9%, 50ml IV Solution		1 ml		1 EA		
Alteplase 50mg/50ml Powder for Injection (rTPA)	50 mg	50 ml	0.5 mg/ml, Single Dose , 1 Days	1 EA		DRAFT
Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott		

Figure 3.2-8 Order Details

- Once click on confirm button, record will be display as shown in Figure 3.2-9

MEDICATION ORDER

Select Registered Patient: All | HKL00466887 | Dispensing Location: Farmasi Klinik Pakar | New Patient

Patient Information: FIRAS ADDIN BIN MAT | Mykad: [redacted] | Age: 31 Years 07 Months 01 Days | Gender: Male | MRN: HKL00466887

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

Height: 173 cm | Weight: 80 kg | BMI/BSA: 26.7 / 1.96 m² | G6PD: | Update (Last Updated: 29/12/2021) | Nationality: Warganegara

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

VISIT/ADMISSION

Encounter No: 0001 | Visit Type: Inpatient | Location: Wad NW18B (Perubatan) | Department: General Medicin | Clear | Visit Management | Patient Label | Patient sticker

Facility RN Number: WD0221 | Bed No: [redacted] | MFlex In:

VISIT RECORD

Original Prescriber Name: [redacted] | Original Prescription Serial Number: E44336

PRESCRIPTION | PROCEED TO DISPENSING | Verify | Preview Prescription

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug Interaction	Alteplase 50mg/50ml Powder for Injection (rTPA)	50 mg	50 ml	0.5 mg/ml , 1 Days	1 EA	Remarks	ORDERED	<i>i</i>
Drug Interaction	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott			
Drug Interaction	Urokinase 6,000 IU Injection		1 ml		1 vial			
Drug Interaction	Sodium Chloride 0.9%, 50ml IV Solution	6000 IU	1 ml	6000 IU/ml , 1 Days	1 EA	Remarks	ORDERED	<i>i</i>

Figure 3.2-9 Infusion Drug Detail

- Click on the  button to view prescription detail as per Figure 3.2-10
- Preview prescription button enable after user save the order

**Ministry of Health, Malaysia
HOSPITAL KUALA LUMPUR**

Patient Name :	FIRAS ADDIN BIN MAT	Patient ID :	██████████
Age :	31 Years 07 Months 01 Days	MRN:	HKL00466887
Gender :	Male	Weight:	80 kg
Location:	Wad NW18B (Perubatan)	Height:	173 cm
Prescription #:	NW18B0002094052	Order Date/Time:	29/12/2021 01:24 PM
Allergy:			

Drug Name	Route	Dosage	Frequency	Start Date	End Date	Duration
Urokinase 6,000 IU Injection	IV Bolus	6000IU	STAT	29/12/2021	30/12/2021	1Days
Alteplase 50mg/50ml Powder for Injection (rTPA)	IV	50mg	Single Dose	29/12/2021	30/12/2021	1Days

Prescribed by : ██████████
Designation : Pegawai Perubatan Pelatih

Figure 3.2-10 Preview Prescription

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug	Alteplase 50mg/50ml Powder for Injection (rTPA)	50 mg	50 ml	0.5 mg/ml , 1 Days	1 EA	Remarks	ORDERED	i
Intervention	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott			
Drug	Urokinase 6,000 IU Injection	6000 IU	1 ml	6000 IU/ml , 1 Days	1 vial	Remarks	ORDERED	i
Intervention	Sodium Chloride 0.9%, 50ml IV Solution		1 ml		1 EA			

Figure 3.2-11 Infusion Drug Detail

STEP 10

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

INTERVENTION 13

History Confirm X

PHARMACY REMARKS

[1 - 12 / 12]

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

Figure 3.2-12 Intervention

STEP 11

Select **Intervention Reason** from the table

STEP 12

Select **Intervention Status** as follow:

- a) Accepted
- b) Not Accepted

STEP 13

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

CONFIRMATION

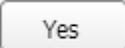

CONF0002: Are you sure you want to save?

14

Cancel
Yes
No

Figure 3.2-13 Confirmation Alert Message

STEP 14

Click on the  button to confirm the intervention

VISIT RECORD

Original Prescriber Name: Dr Mu'iz Bin Mohd Hazizan | Original Prescription Serial Number: E44336

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

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug Interaction	Alteplase 50mg/50ml Powder for Injection (rTPA)	50 mg	50 ml	0.5 mg/ml, 1 Days	1 EA	Remarks	ORDERED	i
Drug Interaction	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott			
Drug Interaction	Urokinase 6,000 IU Injection	6000 IU	1 ml	6000 IU/ml, 1 Days	1 vial	Remarks	ORDERED	i
Drug Interaction	Sodium Chloride 0.9%, 50ml IV Solution		1 ml		1 EA			

Figure 3.2-14 Infusion Drug Detail

STEP 15

Click on the button and will displayed alert message as per Figure 3.2-15

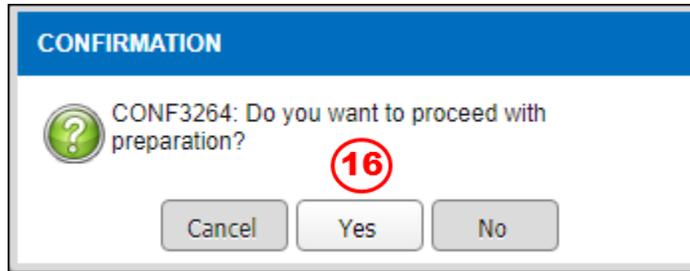


Figure 3.2-15 Confirmation Alert Message

STEP 16

Click on the button to proceed verification and IV Preparation screen will be displayed as per Figure 3.2-16

IV PREPARATION [Print Original Prescription]

PATIENT INFORMATION: FIRAS ADDIN BIN MAT, Mykad, Age 31 Years 07 Months 01 Days, Gender Male, MRN HKL00466887

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 Interaction	Alteplase 50mg/50ml Powder for Injection (rTPA)	50 mg	50 ml	0.5 mg/ml, Single Dose, 1 Days	1 EA	0	0 EA	1 EA	<input type="checkbox"/> Details	0 EA	Remarks	VERIFIED	Drug Info
Drug Interaction	Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott		0 bott	1 bott		0 bott			
Drug Interaction	Urokinase 6,000 IU Injection	6000 IU	1 ml	6000 IU/ml, STAT, 1 Days	1 vial	1	0 vial	1 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED	Drug Info
Drug Interaction	Sodium Chloride 0.9%, 50ml IV Solution		1 ml		1 EA		0 EA	1 EA		0 EA			

Figure 3.2-16 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 <input type="text"/>													
PRESCRIPTION													
<input type="button" value="Prepare"/> <input type="button" value="Worksheet"/> <input type="button" value="Label"/>													
<input type="button" value="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
	Alteplase 50mg/50ml Powder for Injection (TPA)	50 mg	50 ml	0.5 mg/ml, Single Dose, 1 Days	1 EA	0	0 EA	1 EA	<input type="checkbox"/> Details	0 EA	Remarks	VERIFIED	Drug Info
	Chloride 0.9% 100mL IV	50 mg	100 ml		1 bott		0 bott	1 bott	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED	Drug Info
	ise 6,000 IU Injection	6000 IU	1 ml	6000 IU/ml, STAT, 1 Days	1 vial	1	0 vial	1 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED	Drug Info
	Sodium Chloride 0.9%, 50ml IV Solution	6000 IU	1 ml		1 EA		0 EA	1 EA	<input type="checkbox"/> Details	0 EA	Remarks	VERIFIED	Drug Info

Figure 3.2-17 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)	<input type="text"/>					
BATCH DETAIL								
<input type="button" value="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					
<input type="button" value="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	<input type="text"/>		Remark	<input type="text"/>				

Figure 3.2-18 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 3.2-19.

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 3.2-19 Alternate Drug Details

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	Alteplase 50mg/50ml Powder for Injection (rTPA)	50 mg	50 ml	0.5 mg/ml, Single Dose , 1 Days	1 EA	0	0 EA	1 EA	Details	0 EA	Remarks	VERIFIED	Drug Info			
Alternate Drug	Sodium Chloride 0.9% 100mL IV		100 ml		1 bott		0 bott	1 bott		0 bott						
Intervention	Heparin Sodium 5000 IU/ml Inj	6000 IU	1 ml	6000 IU/ml, STAT , 1 Days	1 vial	1	0 vial	1 vial		0 vial	Remarks	VERIFIED	Drug Info			
Hold Order	Sodium Chloride 0.9%, 50ml IV Solution		1 ml		1 EA		0 EA	1 EA	Details	0 EA						

Figure 3.2-20 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
<input type="checkbox"/>	Authenticity		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Contraindication		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Drug Interaction		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Dose		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Drug		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Duration		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Inappropriate Frequency		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incompatibility		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Others		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Polypharmacy		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Suggest to Monitor Vital Signs/Lab Result		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Wrong Patient		<input type="radio"/>	<input type="radio"/>

MODIFY ORDER

Drug Name	Adrenaline Acid Tartrate 1mg/ml Injection	Dosage Form	Parenteral Solution
Dosage	1 * mg	Admin Route	Intravenous Infusion
Drug Volume	1 * ml	Diluent	Sodium Chloride 0.9% with Dextrose 5% 500mL *
Ordered Concentration	0 mg/ml	Diluent Volume	500 * ml
Frequency	Single Dose *	Total Volume	501 * ml
Infuse Over	0 (Hour) 0 (Minute)	Infusion Rate	0 ml/Min
Duration	1 * Days	End Date	10/10/2019
Start Date	09/10/2019	Update By	
Remarks		Updated Date	09/10/2019

Figure 3.2-21 Intervention

Note

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

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

INTERVENTION

History Confirm Refresh Close

PHARMACY REMARKS

[1 - 12 / 12]

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

MODIFY ORDER

Drug Name: Adrenaline Acid Tartrate 1mg/ml Injection	Dosage Form: Parenteral Solution
Dosage: 3 * mg	Admin Route: Intravenous Infusion
Drug Volume: 3 * ml	Diluent: Sodium Chloride 0.9% with Dextrose 5% 500ml *
Ordered Concentration: 0.01 mg/ml	Diluent Volume: 500 * ml
Frequency: Single Dose *	Total Volume: 503 * ml
Infuse Over: 0 (Hour) 0 (Minute)	Infusion Rate: 0 ml/Min
Duration: 1 * Days	End Date: 10/10/2019
Start Date: 09/10/2019	Update By: [User Name]
Remarks:	Updated Date: 09/10/2019

Figure 3.2-22 Intervention

Note

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

CONFIRMATION



CONF0002: Are you sure you want to save?

Cancel Yes No

Figure 3.2-23 Alert Confirmation Message

- Click on the  button to view intervention history listing.

INTERVENTION REASON HISTORY LISTING			
Date/Time	Intervention Reason	Remarks	Updated By
09/10/2019 12:24 PM	Inappropriate Dose	Wrong dose	

Figure 3.2-24 Intervention Reason History Listing

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
	Alteplase 50mg/50ml Powder for Injection (TPA)	50 mg	50 ml	0.5 mg/ml, Single Dose , 1 Days	1 EA	0	0 EA	1 EA	<input type="checkbox"/> Details	0 EA	Remarks	VERIFIED	Drug Info
	Chloride 0.9% 100mL IV	50 mg	100 ml		1 bott		0 bott	1 bott	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED	Drug Info
	se 6,000 IU Injection	6000 IU	1 ml	6000 IU/ml, STAT , 1 Days	1 vial	1	0 vial	1 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED	Drug Info
	Sodium Chloride 0.9%, 50ml IV Solution	6000 IU	1 ml		1 EA		0 EA	1 EA	<input type="checkbox"/> Details	0 EA	Remarks	VERIFIED	Drug Info

Figure 3.2-25 IV Preparation

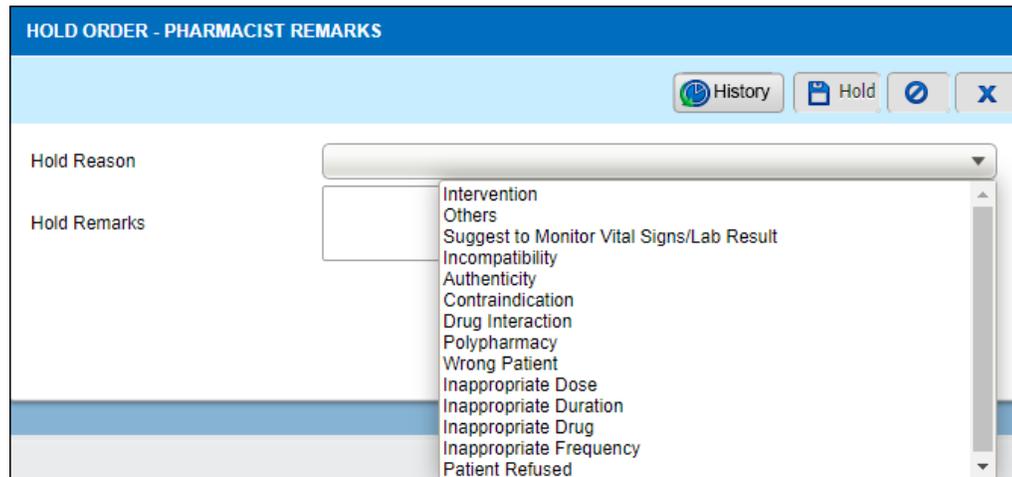
Note

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	<input type="text"/>
Hold Remarks	<input type="text"/>

Figure 3.2-26 Hold Order-Pharmacist Remarks



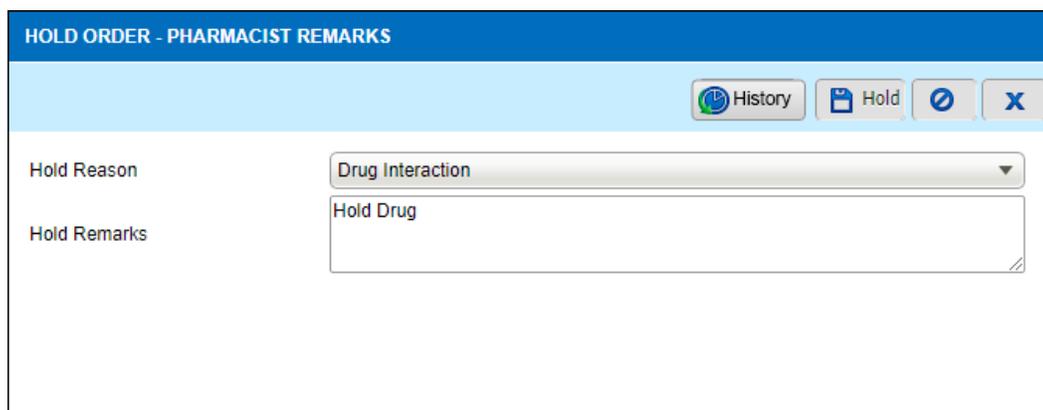
The screenshot shows a window titled "HOLD ORDER - PHARMACIST REMARKS". At the top right, there are buttons for "History", "Hold", a refresh icon, and a close "X" icon. Below the title bar, there are two main input areas: "Hold Reason" and "Hold Remarks". The "Hold Reason" dropdown menu is open, displaying a list of options: Intervention, Others, Suggest to Monitor Vital Signs/Lab Result, Incompatibility, Authenticity, Contraindication, Drug Interaction, Polypharmacy, Wrong Patient, Inappropriate Dose, Inappropriate Duration, Inappropriate Drug, Inappropriate Frequency, and Patient Refused.

Figure 3.2-27 Hold Order-Pharmacist Remarks

Note

Select **Hold Reason** from drop down box:

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



The screenshot shows the same "HOLD ORDER - PHARMACIST REMARKS" window. The "Hold Reason" dropdown menu is now closed, and "Drug Interaction" is selected. The "Hold Remarks" text box contains the text "Hold Drug".

Figure 3.2-28 Hold Order-Pharmacist Remarks

Note

Click on the  button to proceed hold transaction

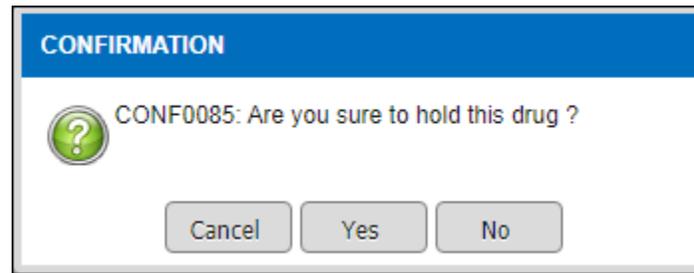


Figure 3.2-29 Alert Confirmation Message

- Click on the  button to confirm the hold order.

IV PREPARATION

Print Original Prescription

Mykad Age 44 Years 01 Months 05 Days Gender Female MRN HKL000009
 Address Phone And Email Diagnosis No known Allergies

Upload Photo Height cm Weight kg BMI/BSA 22.9 / 1.54 m² Update (Last Updated : 09/10/2019) Nationality : Warganegara

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

Encounter No: 0002 Actual Visit Date: 09/10/2019 Visit Location: Farmasi Klinik Pakar Order By: Transcribed By:

PHARMACY ORDER

Supervised By

PRESCRIPTION

< < 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	Adrenaline Acid Tartrate 1mg/ml Injection	3 mg	3 ml	0.01 mg/ml, Single Dose, 1 Days	3 amp	0	0 amp	3 amp	<input type="checkbox"/> Details	0 amp	Remarks	VERIFIED HOLD	Drug info
	Sodium Chloride 0.9% with Dextrose 5% 500mL IV soln		500 ml		1 bott		0 bott	1 bott		0 bott			

Figure 3.2-30 IV Preparation

Note

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

IV PREPARATION

[Print Original Prescription](#) X

	LXXX XXXX XXX	Mykad	Age 44 Years 01 Months 05 Days	Gender Female	MRN HKL000009
	Address	Phone And Email	Diagnosis	No known Allergies	

Height cm Weight kg BMI/BSA 22.9 / 1.54 m² (Last Updated : 09/10/2019) Nationality : Warganegara

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

Encounter No: 0002 Actual Visit Date: 09/10/2019 Visit Location: Farmasi Klinik Pakar Order By: Transcribed By:

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
	Adrenaline Acid Tartrate 1mg/ml Injection	3 mg	3 ml	0.01 mg/ml, Single Dose, 1 Days	3 amp	0	0 amp	3 amp	<input type="checkbox"/> Details	0 amp	Remarks	VERIFIED HOLD	Drug Info
<input type="button" value="Drug"/>	Alternate Drug Intervention	3 mg	500 ml	Chloride 0.9% with 5% 500mL IV soln	1 bott		0 bott	1 bott		0 bott			

Figure 3.2-31 IV Preparation

Note

Resume Order

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

HOLD ORDER - PHARMACIST REMARKS

Hold Reason

Hold Remarks

Resume Remarks

Figure 3.2-32 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.

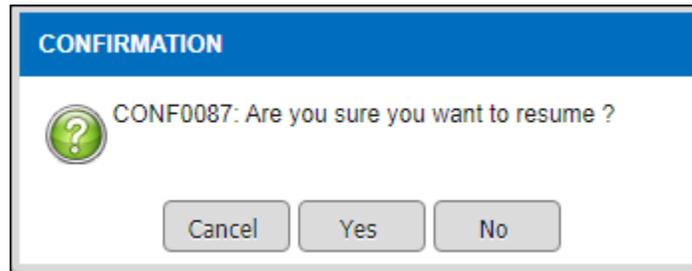


Figure 3.2-33 Alert Confirmation Message

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: [redacted] Transcribed By: [redacted]

PHARMACY ORDER

Supervised By: [redacted]

PRESCRIPTION Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug 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	17	0 amp 0 bott	1 amp 1 bott	Details	0 amp 0 bott	Remarks	VERIFIED	Drug Info

Double click to view order details

Figure 3.2-34 IV Preparation

STEP 17

Click on **Prepare Qty** "0" hyperlink to do allocation from displayed window as per figure 3.2-35

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

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 18

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

ITEM BATCH DETAILS

Drug Code: J01GB03183P3003XX
 Drug Name: Gentamicin 80mg/2ml Inj
 Order Details: 80 mg, OD, 1 Days

Default SKU: ampoule
 Dispense UOM: ampoule

BATCH DETAIL

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 3.2-36 Item Batch Details

STEP 19

Click on the button to proceed allocation

CONFIRMATION

CONF0002: Are you sure you want to save?

Buttons: Cancel, Yes, No

Figure 3.2-37 Alert Confirmation Message

STEP 20

Click on the button

IV PREPARATION

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

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

Height: 158 cm, Weight: 57 kg, BMI/BSA: 22.8 / 1.6 m²

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

PHARMACY ORDER

Supervised By: [Name]

PRESCRIPTION

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	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 3.2-38 IV Preparation

STEP 21

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

Note

After select the checkbox pop window will displayed as Figure 3.2-39

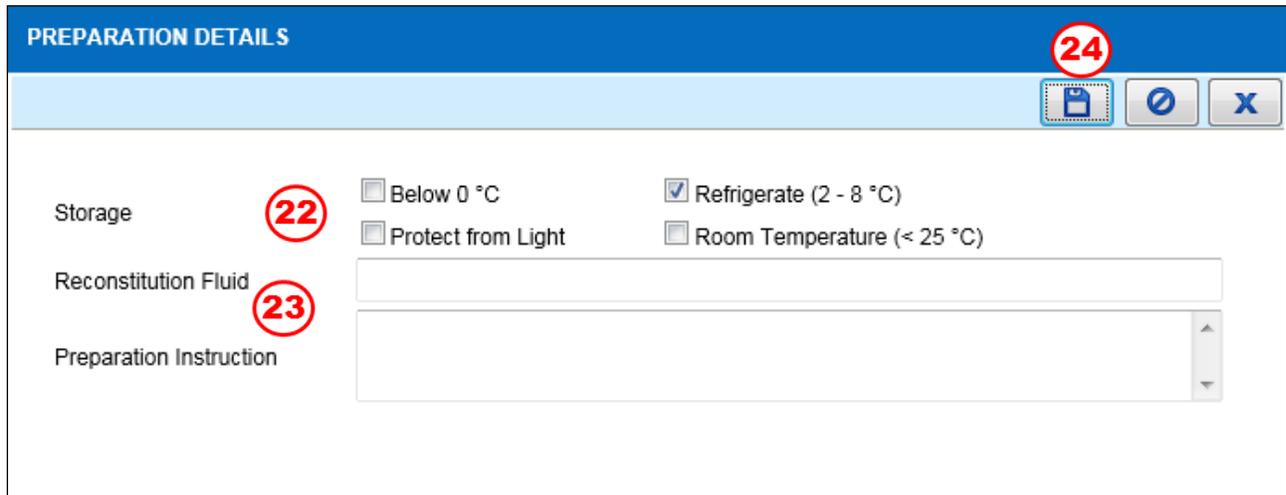


Figure 3.2-39 Preparation Details

STEP 22

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

STEP 23

Enter *Reconstitution Fluid & Preparation Instruction* if applicable

STEP 24

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.

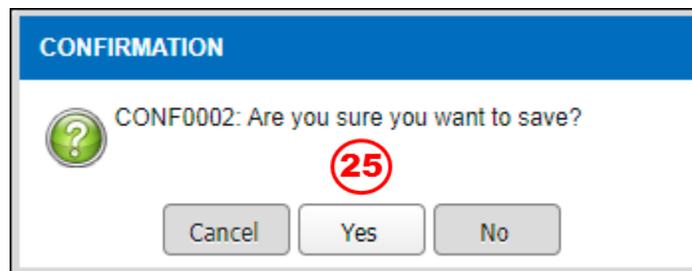
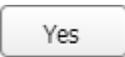


Figure 3.2-40 Alert Confirmation Details

STEP 25

Click on  button to proceed worksheet

IV PREPARATION

	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: Transcribed By:

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
	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 3.2-41 IV Preparation

STEP 26

Click on the  button to view and print

IV WORKSHEET														
MINISTRY OF HEALTH														
Hospital Pakar Sultanah Fatimah, Muar														
Date of preparation : 27/10/2014						Worksheet Id: 14-10-0001								
MRN HPSF00032191			Name			ID No			Rx. No. FBW0000017697					
Order Location WAD 9 (MED - P)			Order Date 27/10/2014			Ordered By								
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		
Date: 27/10/2014			Date:			Date:			Date:			Date: 27/10/2014		

Figure 3.2-42 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 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: Transcribed By:

PHARMACY ORDER

Supervised By

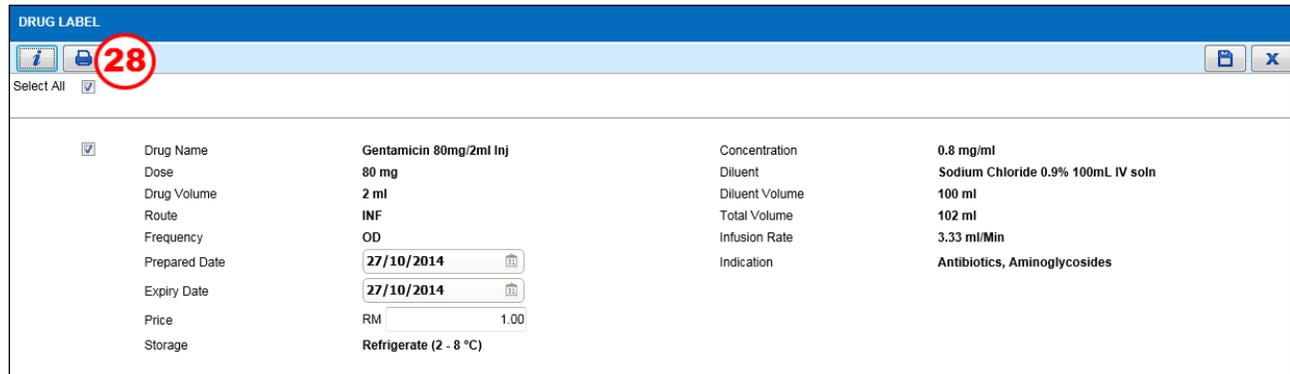
PRESCRIPTION

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"/>	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 3.2-43 IV Preparation

STEP 27

Click on  button and window will displayed as per Figure 3.2.44



<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 3.2-44 Drug Label

STEP 28

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.

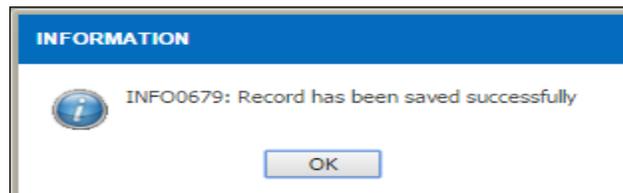


Figure 3.2-45 Alert Information Message

IV Admixture Pharmacy	
HOSPITAL KUALA LUMPUR	
LXXX XXXX XXX	
HKL000009	Farmasi Klinik Pakar
Drug Name: Adrenaline 1 mg/ml Injection	Bed No:
Dose: 3 mg / 3 ml (Conc: 0.01 mg/ml)	
in 500 ml Sodium Chloride 0.9% with Dextrose 5%	
Route: INF	Freq: Single Dose Infuse Rate: 0 ml/Min
Prepared Date: 09/10/2019	Exp Date: 09/10/2019
Indication: Cardiac Stimulants Excl. Cardiac	Price: RM 1.00
Storage:	

Figure 3.2-46 Sample of Drug Label

Note

Sample of IV Admixture Label as per Figure 3.2-47

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: Transcribed By:

PHARMACY ORDER

Supervised By

PRESCRIPTION

29
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 3.2-47 IV Preparation

STEP 30

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?

30

Cancel
Yes
No

Figure 3.2-48 Alert Confirmation Message

STEP 31

Click on the  button to proceed dispensing and new screen will be displayed as per Figure 3.2-49

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: Transcribed By:

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 3.2-49 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: Transcribed By:

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 3.2-50 IV Dispensing

STEP 32

Click on the  button and alert message will be displayed as per Figure 3.2-51

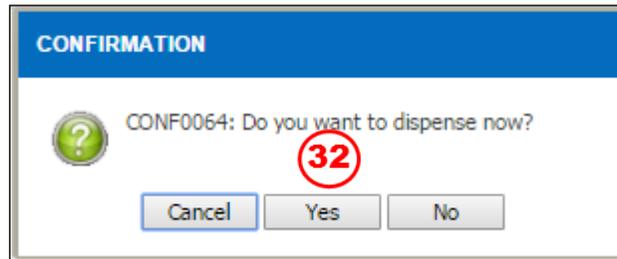
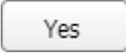


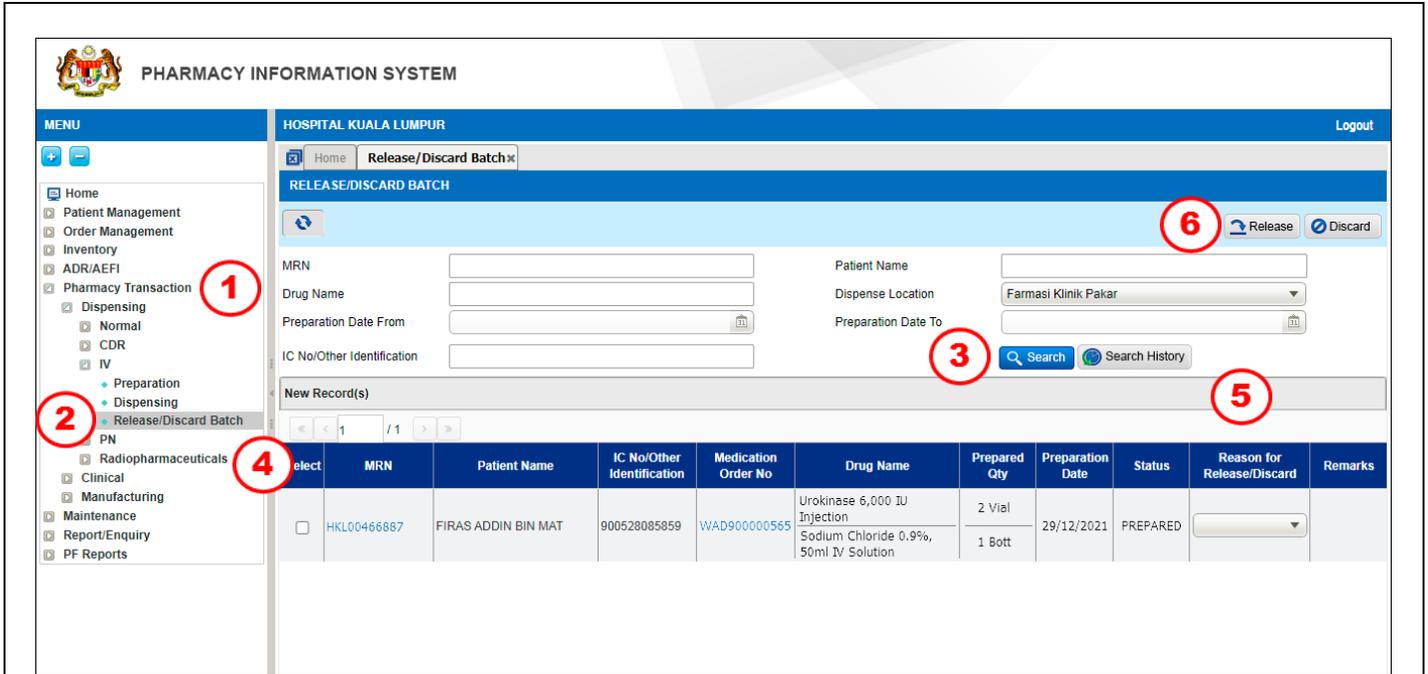
Figure 3.2-51 Alert Confirmation Message

STEP 33

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.



The screenshot shows the 'PHARMACY INFORMATION SYSTEM' interface for 'HOSPITAL KUALA LUMPUR'. The main menu on the left is expanded to 'Pharmacy Transaction' (1), then 'Dispensing' (2), and finally 'Release/Discard Batch' (3). The main content area shows search filters for MRN, Drug Name, Patient Name, Dispense Location, Preparation Date From, and Preparation Date To. A 'Search' button (4) and 'Search History' are also visible. Below the filters is a table of records (5) with columns: select, MRN, Patient Name, IC No/Other Identification, Medication Order No, Drug Name, Prepared Qty, Preparation Date, Status, Reason for Release/Discard, and Remarks. The table contains one record for 'FIRAS ADDIN BIN MAT' with MRN 'HKL00466887'. At the top right, there are 'Release' and 'Discard' buttons (6).

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)	Dispense Location	Patient visit location	Able to filter and search patient by visit location and prescriber's location.
e)	Prepare Date From	Prepare Date From	Able to filter and search prepare date from
f)	Prepare Date To	Prepare Date To	Able to filter and search prepare date to
g)	IC No/Other Identification	IC Number/Other Identification	Able to filter by IC number or other identification

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

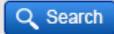
Click on '**Release/Discard Batch**' sub-menu

Note

Various search criteria is provided as below :

- a) **MRN**
- b) **Patient Name**
- c) **Drug Name**
- d) **Dispense Location**
- e) **Prepare Date From**
- f) **Prepare Date To**
- g) **IC No/Other Identification**

STEP 3

Click on the  button

STEP 4

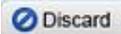
Select checkbox to discard from the listed drug

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

-  : System will reset back the allocation quantity but no stock will deduct
-  : Allocation will discard and stock will be deducted
- 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		