



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

Pharmacy Based

User Manual Infusion Order

Version	: 10th EDITION
Document ID	: PB_U. MANUAL_INFUSION ORDER



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Application reference: PhIS & CPS v2.1 & v2.2

Table of Contents

1.0	Introduction	1
1.1	Overview of PhIS.....	1
1.2	Purpose and Objectives	1
1.3	Organised Sections.....	1
2.0	Application Standard Features	2
2.1	PhIS Legend.....	2
3.0	Order Management-IV Admixture	4
	Overview	4
	User Group.....	4
	Functional Diagram	4
	Functional Description	5
3.1	Transcribe Infusion Order	6
3.1.1	Search Registered Patient.....	6
3.1.2	New Patient Registration	9
3.2	Infusion Transcribe Order, Verify, Prepare and Dispense	13
3.3	Release / Discard Batch.....	39
4.0	Acronyms.....	41
5.0	Links to Clinical Modules.....	41

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

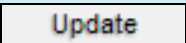




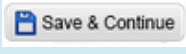


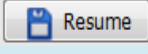
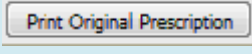


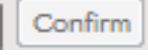



These are the sections within this document:

- 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		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

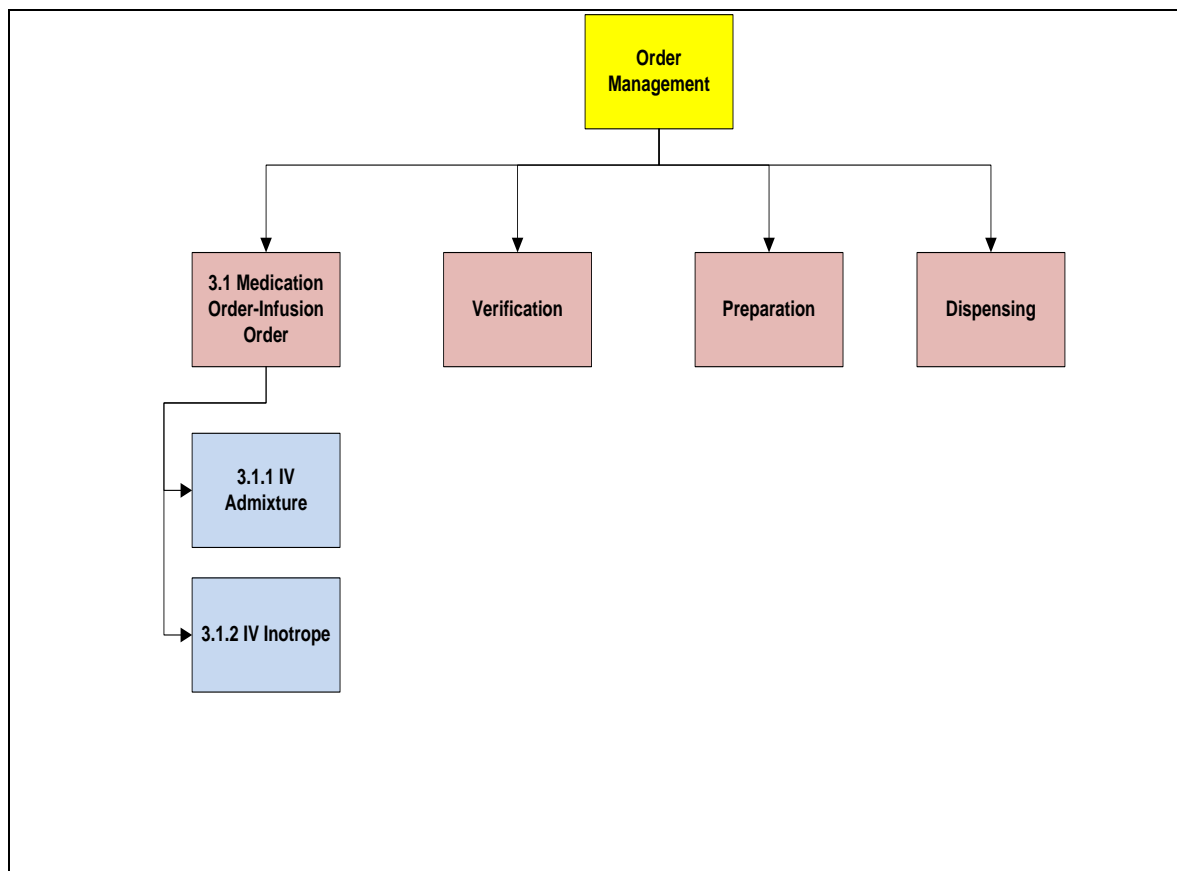


Figure 3.0-1

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**

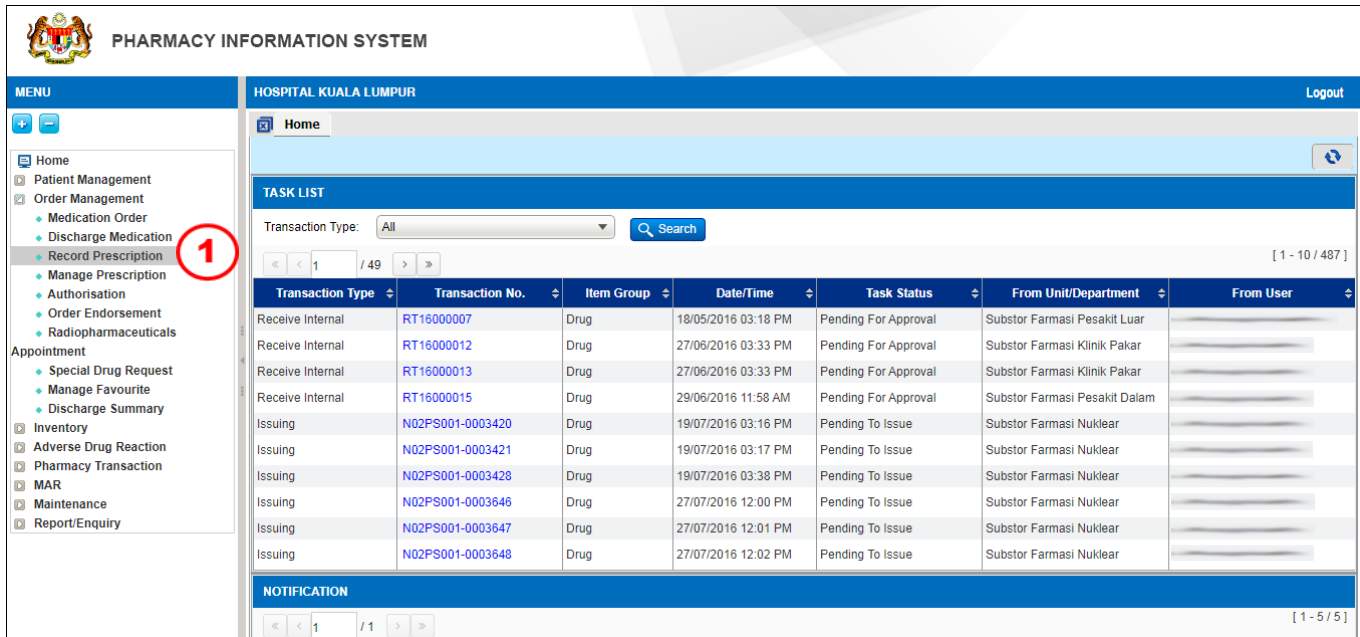
Release batch function will be used when user decide to un-packed the reserved/prepared drugs. All the release drugs such as tablets, capsule and other than liquid will be stocked back into inventory

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.



PHARMACY INFORMATION SYSTEM

HOSPITAL KUALA LUMPUR

MENU

- Home
- Patient Management
- Order Management
 - Medication Order
 - Discharge Medication
 - Record Prescription** (1)
 - Manage Prescription
 - Authorisation
 - Order Endorsement
 - Radiopharmaceuticals
- Appointment
 - Special Drug Request
 - Manage Favourite
 - Discharge Summary
- Inventory
- Adverse Drug Reaction
- Pharmacy Transaction
- MAR
- Maintenance
- Report/Enquiry

Home

TASK LIST

Transaction Type: All Search

[1 - 10 / 487]

Transaction Type	Transaction No.	Item Group	Date/Time	Task Status	From Unit/Department	From User
Receive Internal	RT16000007	Drug	18/05/2016 03:18 PM	Pending For Approval	Substor Farmasi Pesakit Luar	
Receive Internal	RT16000012	Drug	27/06/2016 03:33 PM	Pending For Approval	Substor Farmasi Klinik Pakar	
Receive Internal	RT16000013	Drug	27/06/2016 03:33 PM	Pending For Approval	Substor Farmasi Klinik Pakar	
Receive Internal	RT16000015	Drug	29/06/2016 11:58 AM	Pending For Approval	Substor Farmasi Pesakit Dalam	
Issuing	N02PS001-0003420	Drug	19/07/2016 03:16 PM	Pending To Issue	Substor Farmasi Nuklear	
Issuing	N02PS001-0003421	Drug	19/07/2016 03:17 PM	Pending To Issue	Substor Farmasi Nuklear	
Issuing	N02PS001-0003428	Drug	19/07/2016 03:38 PM	Pending To Issue	Substor Farmasi Nuklear	
Issuing	N02PS001-0003646	Drug	27/07/2016 12:00 PM	Pending To Issue	Substor Farmasi Nuklear	
Issuing	N02PS001-0003647	Drug	27/07/2016 12:01 PM	Pending To Issue	Substor Farmasi Nuklear	
Issuing	N02PS001-0003648	Drug	27/07/2016 12:02 PM	Pending To Issue	Substor Farmasi Nuklear	

NOTIFICATION

[1 - 5 / 5]

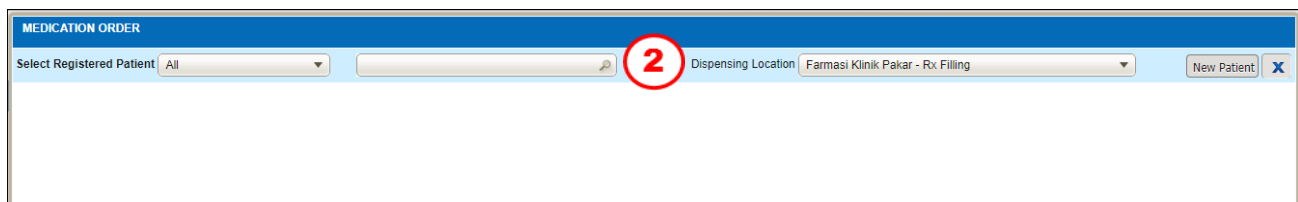
Figure 3.1.1-1 PhIS Home page

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 **New Patient** button and the Patient Registration screen will be displayed.



MEDICATION ORDER


Select Registered Patient: All

Dispensing Location: Farmasi Klinik Pakar - Rx Filling

New Patient

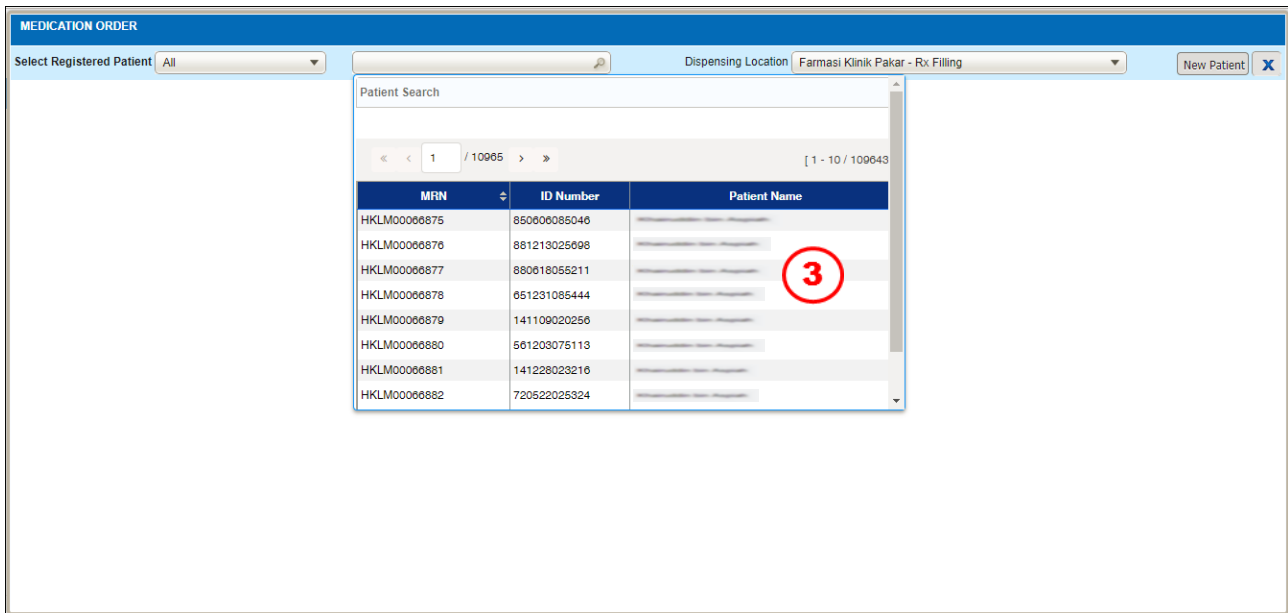
Figure 3.1.1-2 Medication Order

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 **Dispensing Location** Farmasi Klinik Pakar - Rx Filling button.



MEDICATION ORDER

Select Registered Patient: All | Dispensing Location: Farmasi Klinik Pakar - Rx Filling | New Patient X

Patient Search

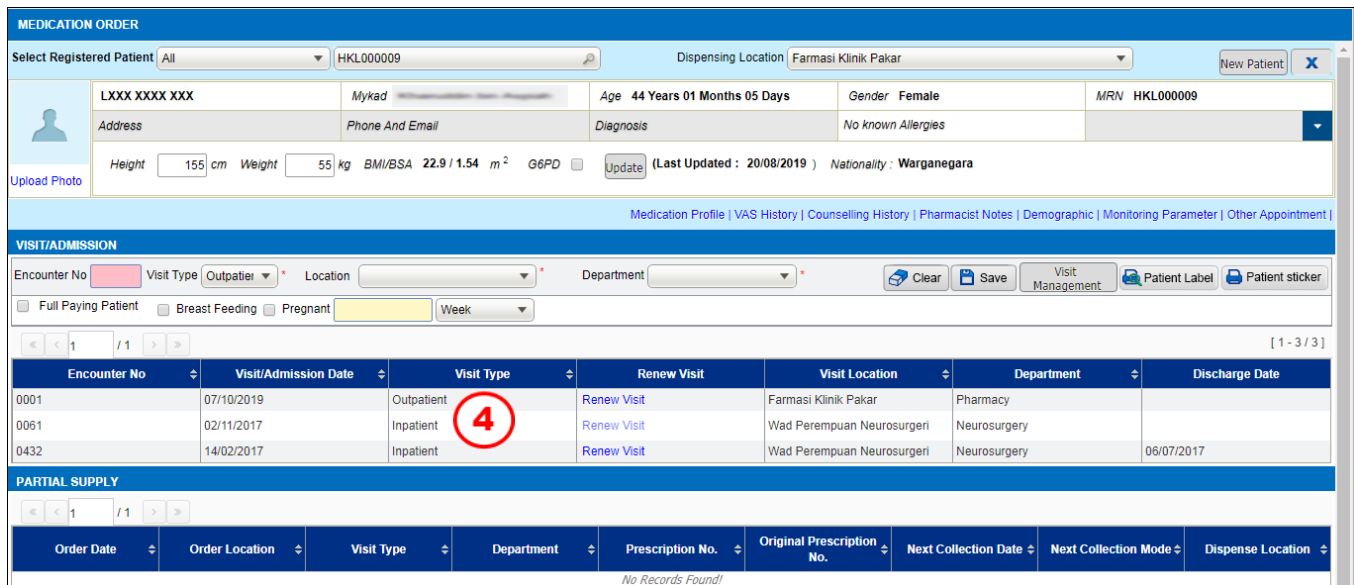
<< 1 / 10905 >> [1 - 10 / 10905]

MRN	ID Number	Patient Name
HKLM00006875	850006085046	
HKLM00006876	881213025098	
HKLM00006877	880818055211	
HKLM00006878	651231085444	
HKLM00006879	141109020256	
HKLM00006880	561203075113	
HKLM00006881	141228023216	
HKLM00006882	720522025324	

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



MEDICATION ORDER

Select Registered Patient: All | HKL000009 | Dispensing Location: Farmasi Klinik Pakar | New Patient 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: 155 cm | Weight: 55 kg | BMI/BSA: 22.9 / 1.54 m² | G6PD | Update (Last Updated: 20/08/2019) | Nationality: Warganegara

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

VISIT/ADMISSION

Encounter No: | Visit Type: Outpatient | Location: | Department: | Clear | Save | Visit Management | Patient Label | Patient sticker

☐ Full Paying Patient
 ☐ Breast Feeding
 ☐ Pregnant
 Week: |

<< 1 / 1 >> [1 - 3 / 3]

Encounter No	Visit/Admission Date	Visit Type	Renew Visit	Visit Location	Department	Discharge Date
0001	07/10/2019	Outpatient	Renew Visit	Farmasi Klinik Pakar	Pharmacy	
0061	02/11/2017	Inpatient	Renew Visit	Wad Perempuan Neurosurgi	Neurosurgery	
0432	14/02/2017	Inpatient	Renew Visit	Wad Perempuan Neurosurgi	Neurosurgery	06/07/2017

PARTIAL SUPPLY

<< 1 / 1 >>

Order Date	Order Location	Visit Type	Department	Prescription No.	Original Prescription No.	Next Collection Date	Next Collection Mode	Dispense Location
No Records Found!								

Figure 3.1.1-4 Medication Order

Note

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

STEP 4

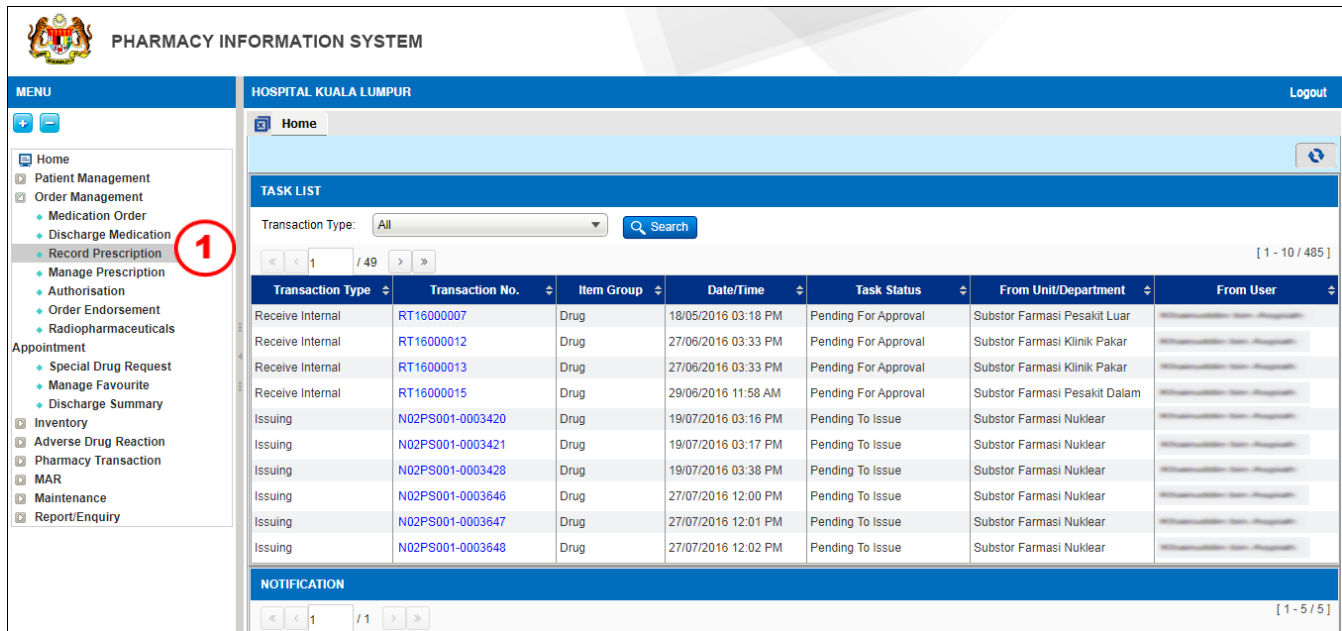
Double-click on the selected visit and the details will be displayed as per Figure 3.1.1-5

MEDICATION ORDER																			
Select Registered Patient		All	HKL000009	Dispensing Location		Farmasi Klinik Pakar	New Patient	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	155 cm	Weight	55 kg	BMI/BSA	22.9 / 1.54 m ²	G6PD	<input type="checkbox"/>	Update (Last Updated : 20/08/2019) Nationality : Warganegara										
Medication Profile VAS History Counselling History Pharmacist Notes Demographic Monitoring Parameter Other Appointment																			
VISIT/ADMISSION																			
Encounter No	0061	Visit Type	Inpatient	Location	Wad Perempuan Neurosurg	Department	Neurosurgery	Clear	Visit Management										
Bed No		Breast Feeding	<input type="checkbox"/>	Pregnant	<input type="checkbox"/>	Week		Patient Label	Patient sticker										
VISIT RECORD																			
Queue Series	Normal	Queue No		Discharge Medication	<input type="checkbox"/>	Original Prescription Serial Number		Clinic TCA											
<div> <div> Patient Diagnosis Allergy Adverse Drug Reaction Nutritional Assessment Normal Order Infusion Order Parenteral Nutrition Cytotoxic Drug Reconstitution Therapeutic Drug Monitoring Radiopharmaceuticals </div> <div> <h3>NORMAL ORDER - DRUG DETAILS</h3> <div>View Order Draft Confirm</div> <p>Total Price : RM 0.00</p> <table border="1"> <thead> <tr> <th>Alert</th> <th>Drug Name</th> <th>Order Details</th> <th>Order Qty</th> <th>Drug Info</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> </div>										Alert	Drug Name	Order Details	Order Qty	Drug Info					
Alert	Drug Name	Order Details	Order Qty	Drug Info															
<div> <div> Original Prescriber Name Drug Dosage Admin Route Frequency Duration Start Date / Time End Date / Time Order Quantity Drug Indication Drug Remarks Available Qty </div> <div> Advanced Search Own Medication Ward Stock Patient Require Counselling Dosage Schedule </div> </div>																			

Figure 3.1.1-5 Medication Order

3.1.2 New Patient Registration

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



Transaction Type	Transaction No.	Item Group	Date/Time	Task Status	From Unit/Department	From User
Receive Internal	RT16000007	Drug	18/05/2016 03:18 PM	Pending For Approval	Substor Farmasi Pesakit Luar	...
Receive Internal	RT16000012	Drug	27/06/2016 03:33 PM	Pending For Approval	Substor Farmasi Klinik Pakar	...
Receive Internal	RT16000013	Drug	27/06/2016 03:33 PM	Pending For Approval	Substor Farmasi Klinik Pakar	...
Receive Internal	RT16000015	Drug	29/06/2016 11:58 AM	Pending For Approval	Substor Farmasi Pesakit Dalam	...
Issuing	N02PS001-0003420	Drug	19/07/2016 03:16 PM	Pending To Issue	Substor Farmasi Nuklear	...
Issuing	N02PS001-0003421	Drug	19/07/2016 03:17 PM	Pending To Issue	Substor Farmasi Nuklear	...
Issuing	N02PS001-0003428	Drug	19/07/2016 03:38 PM	Pending To Issue	Substor Farmasi Nuklear	...
Issuing	N02PS001-0003646	Drug	27/07/2016 12:00 PM	Pending To Issue	Substor Farmasi Nuklear	...
Issuing	N02PS001-0003647	Drug	27/07/2016 12:01 PM	Pending To Issue	Substor Farmasi Nuklear	...
Issuing	N02PS001-0003648	Drug	27/07/2016 12:02 PM	Pending To Issue	Substor Farmasi Nuklear	...

Figure 3.1.2-1 PhIS Home page

STEP 1

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

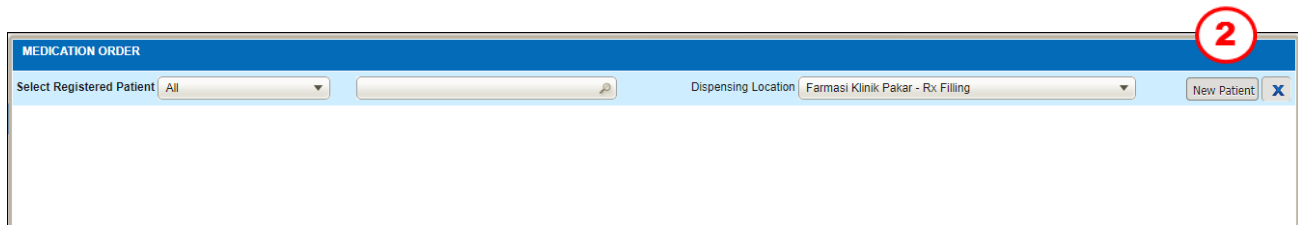
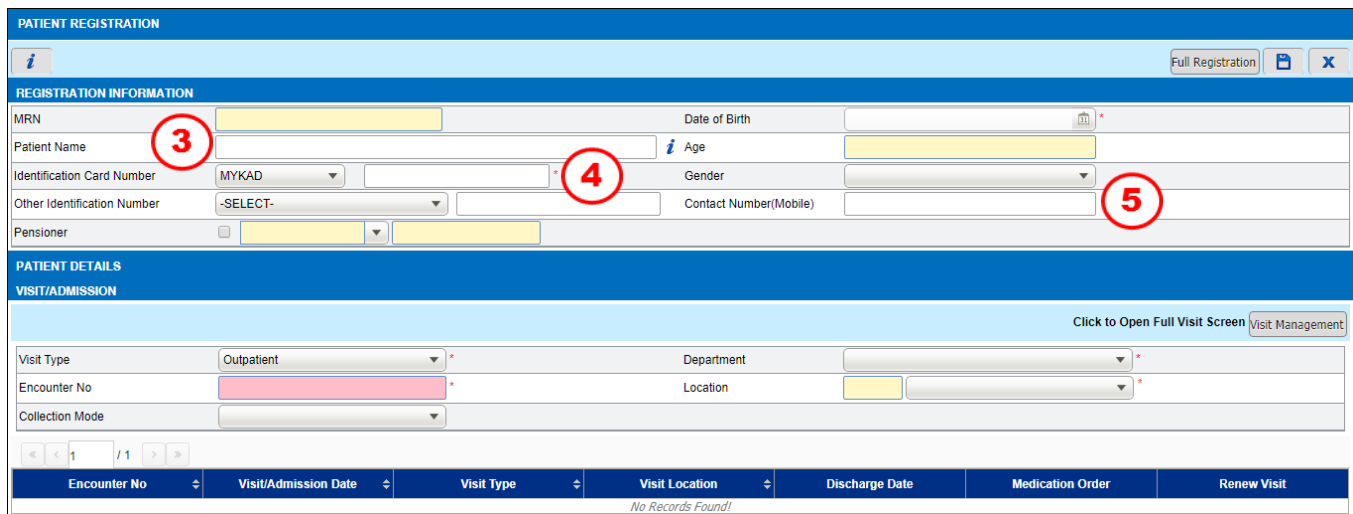


Figure 3.1.2-2 Transcribe Order Create New Patient

STEP 2

Click on  button to create new patient



The screenshot shows the 'PATIENT REGISTRATION' form. It is divided into two main sections: 'REGISTRATION INFORMATION' and 'PATIENT DETAILS'. The 'REGISTRATION INFORMATION' section contains fields for MRN (callout 3), Patient Name, Identification Card Number (with a dropdown menu for MYKAD and Other Identification Number, callout 4), Date of Birth, Age, Gender, and Contact Number (Mobile) (callout 5). The 'PATIENT DETAILS' section contains fields for Visit Type, Department, Encounter No, Location, and Collection Mode. A 'Full Registration' button is located in the top right corner. A 'Click to Open Full Visit Screen' button is located in the bottom right corner. A table at the bottom shows a list of records with columns: Encounter No, Visit/Admission Date, Visit Type, Visit Location, Discharge Date, Medication Order, and Renew Visit. The table currently shows 'No Records Found!'.

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 PERMIT

and enter the relevant number.

STEP 5

Enter **Contact Number (Mobile)**

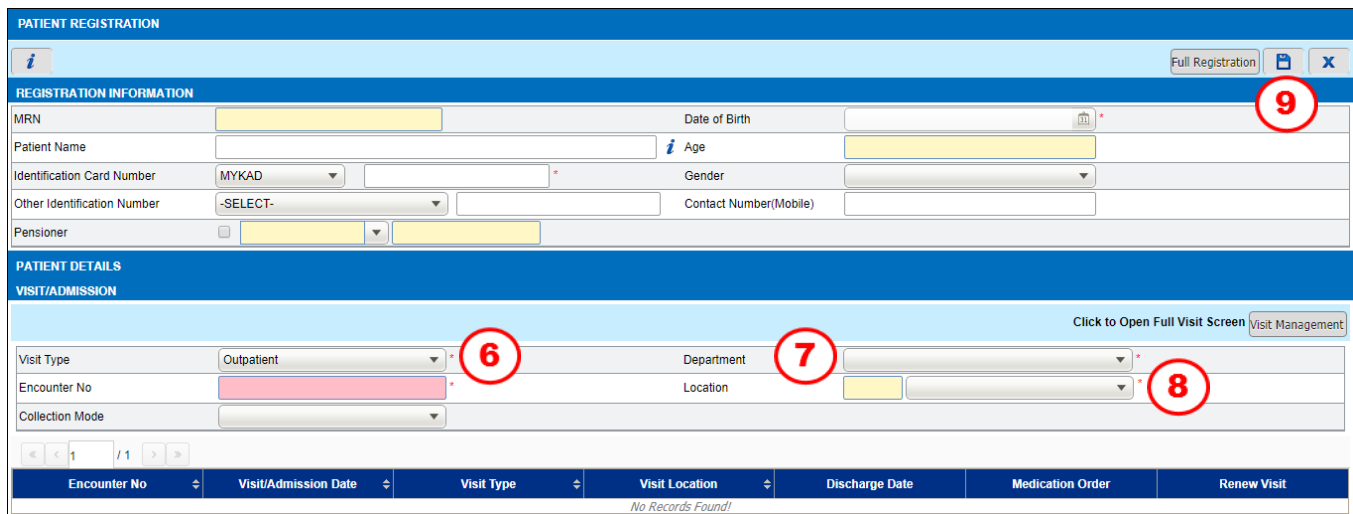


Figure 3.2-4 Visit/Admission

STEP 6

Select the **Visit Type** from dropdown box

Note

User able to select Collection Mode

- Appointment Card
- Email and Take
- Fax and Take
- Normal Collection
- Others
- SMS and Take
- UMP
- Leave and Collect
- Home Visit

STEP 7

Select the **Department** from dropdown box:

Note

Department will tie to the selected visit type.

STEP 8

Select **Location** from dropdown box




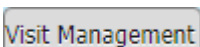
Note


Location will tie to the selected Department.

STEP 9

Click on the  button to save the record

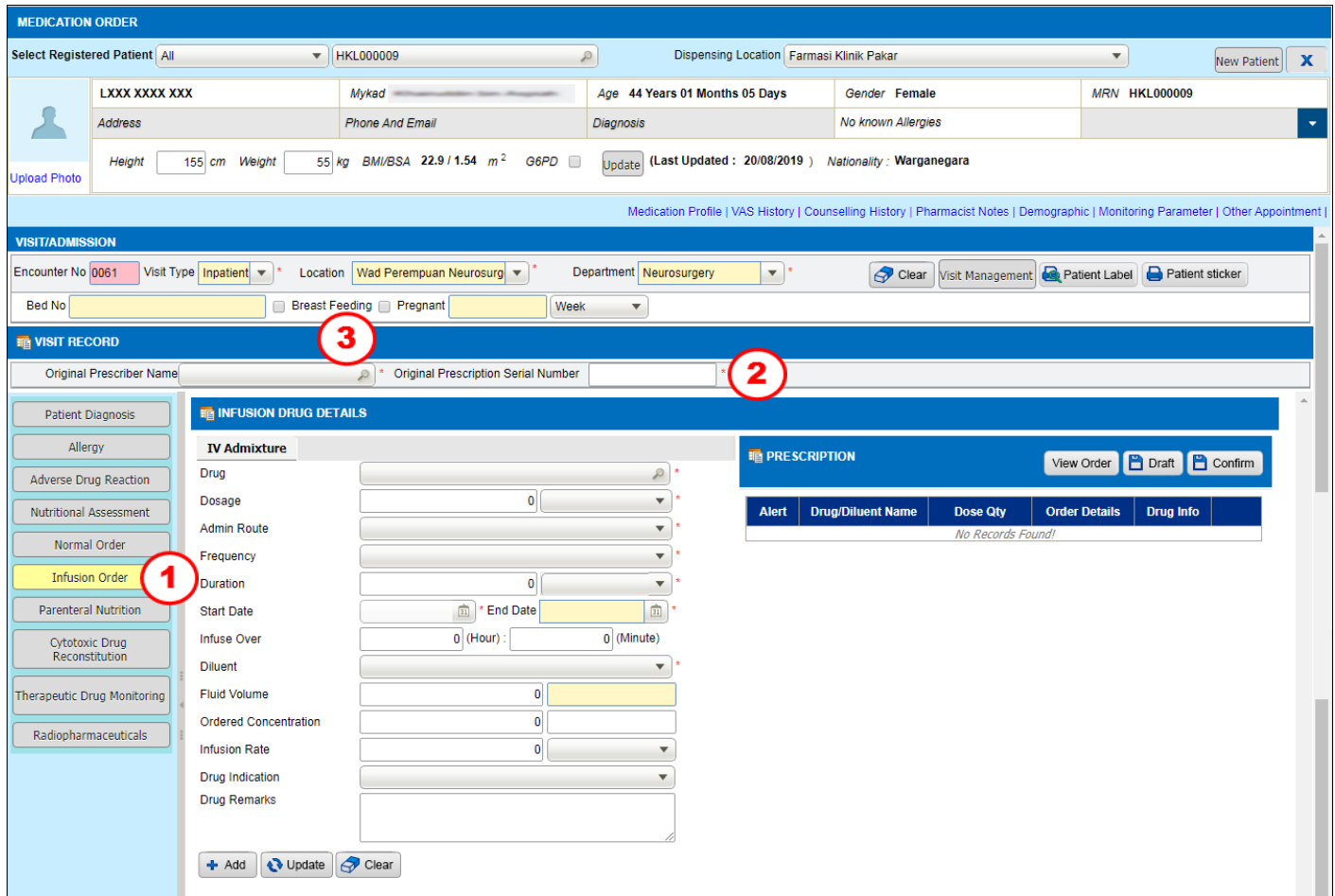
Note

- After click the save button, system will automatically generate the **MRN** (Medical Record Number) and ,  and  buttons will be enabled.
- Click on the  button to assess 'Visit Management' Screen.

- *Another option to register a new patient is to click on the  button located under Patient Quick Registration*

3.2 Infusion Transcribe Order, Verify, Prepare and Dispense

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



MEDICATION ORDER

Select Registered Patient: All | HKL000009 | Dispensing Location: Farmasi Klinik Pakar | New Patient X

Patient Information:
 LXXX XXXX XXX | Mykad: | Age: 44 Years 01 Months 05 Days | Gender: Female | MRN: HKL000009
 Address: | Phone And Email: | Diagnosis: | No known Allergies
 Height: 155 cm | Weight: 55 kg | BMI/BSA: 22.9 / 1.54 m² | G6PD: ☐ | Update (Last Updated: 20/08/2019) | Nationality: Warganegara

VISIT/ADMISSION
 Encounter No: 0061 | Visit Type: Inpatient | Location: Wad Perempuan Neurosurg | Department: Neurosurgery | Clear | Visit Management | Patient Label | Patient sticker
 Bed No: | Breast Feeding: ☐ | Pregnant: ☐ | Week: |

VISIT RECORD
 Original Prescriber Name: | Original Prescription Serial Number: |

INFUSION DRUG DETAILS

IV Admixture

Drug: | Dosage: 0 | Admin Route: | Frequency: | Duration: 0 | Start Date: | End Date: | Infuse Over: 0 (Hour) : 0 (Minute) | Diluent: | Fluid Volume: 0 | Ordered Concentration: 0 | Infusion Rate: 0 | Drug Indication: | Drug Remarks: |

PRESCRIPTION
 View Order | Draft | Confirm
 Alert | Drug/Diluent Name | Dose Qty | Order Details | Drug Info
 No Records Found!

Navigation Menu:
 Patient Diagnosis | Allergy | Adverse Drug Reaction | Nutritional Assessment | Normal Order | **Infusion Order** | Parenteral Nutrition | Cytotoxic Drug Reconstitution | Therapeutic Drug Monitoring | Radiopharmaceuticals

Buttons: Add | Update | Clear

Figure 3.2-1 Medication Order

STEP 1

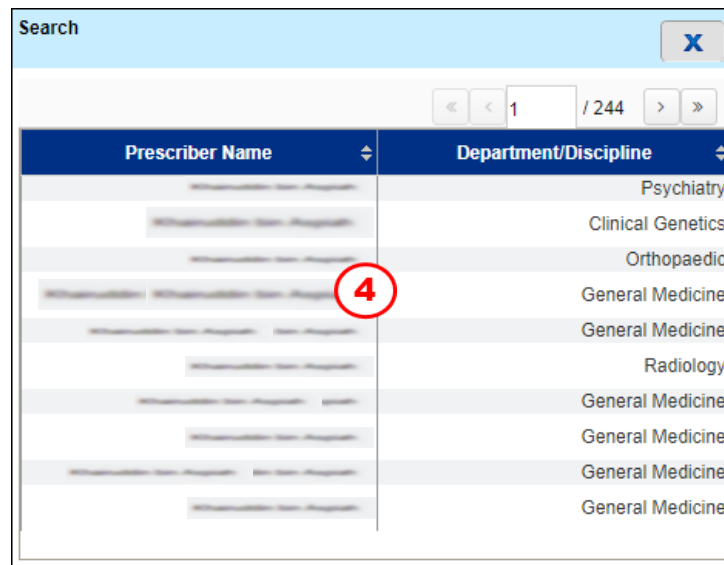
Click on the **Infusion Order** tab

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

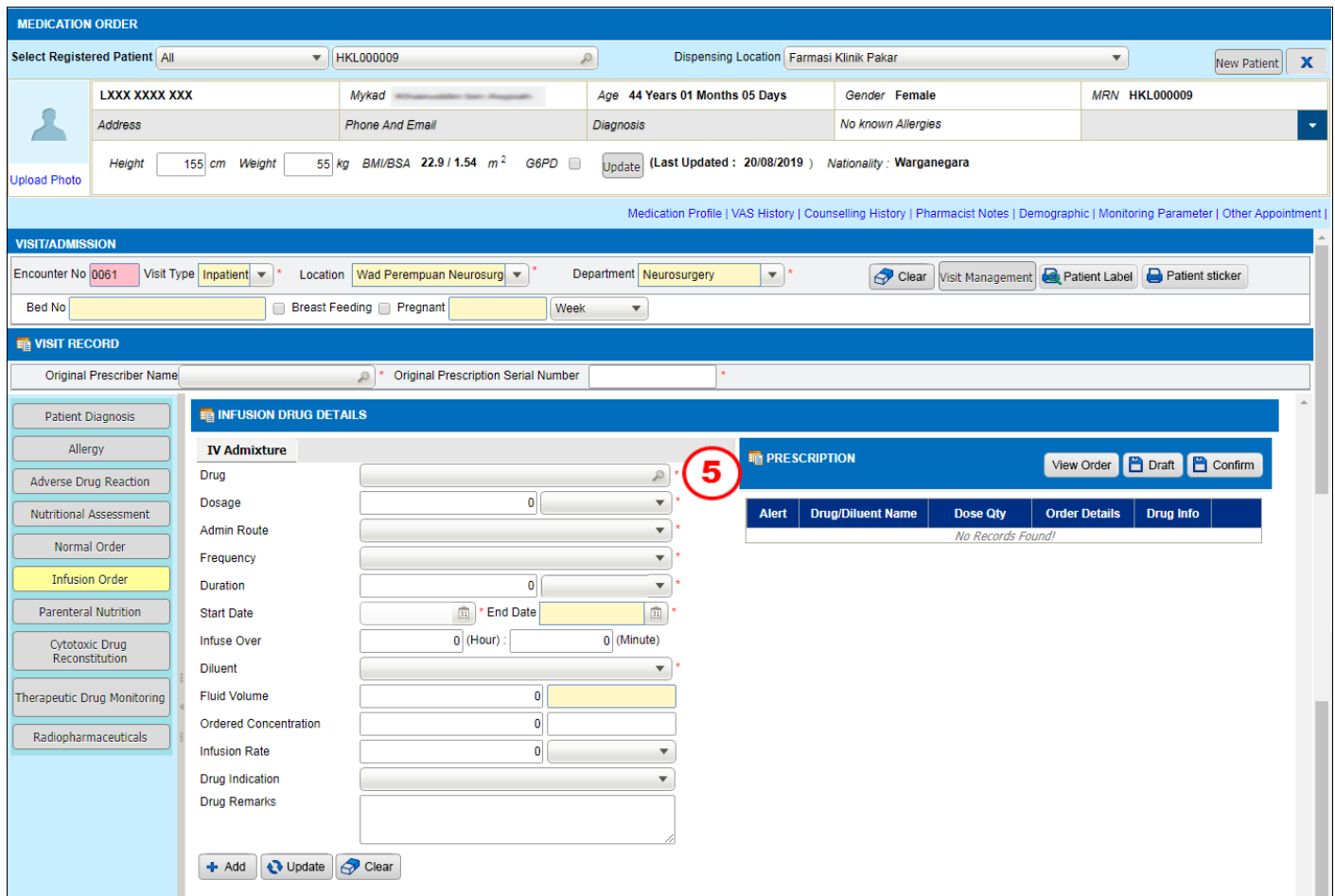
< < 1 / 244 > >

Prescriber Name	Department/Discipline
Mykard	Psychiatry
Mykard	Clinical Genetics
Mykard	Orthopaedic
Mykard	General Medicine
Mykard	General Medicine
Mykard	Radiology
Mykard	General Medicine
Mykard	General Medicine
Mykard	General Medicine
Mykard	General Medicine

Figure 3.2-2 List of Prescriber Name

STEP 4

Double click on the selected prescriber



MEDICATION ORDER

Select Registered Patient: All HKL000009 Dispensing Location: Farmasi Klinik Pakar New Patient X

LXXX XXXX XXXX Mykad Age 44 Years 01 Months 05 Days Gender Female MRN HKL000009
 Address Phone And Email Diagnosis No known Allergies
 Height 155 cm Weight 55 kg BMI/BSA 22.9 / 1.54 m² G6PD Update (Last Updated : 20/08/2019) Nationality : Warganegara

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

VISIT/ADMISSION

Encounter No 0061 Visit Type Inpatient Location Wad Perempuan Neurosurg Department Neurosurgery Clear Visit Management Patient Label Patient sticker

Bed No Breast Feeding Pregnant Week

VISIT RECORD

Original Prescriber Name Original Prescription Serial Number

INFUSION DRUG DETAILS

IV Admixture

Drug
 Dosage
 Admin Route
 Frequency
 Duration
 Start Date End 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 Confirm

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	
<div> << < 1 > >> </div>		/ 8 [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	Deferoxamine (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

HKL000009

Dispensing Location

Farmasi Klinik Pakar

New Patient

X

LXXX XXXX XXXX

Mykad

Age 44 Years 01 Months 05 Days

Gender Female

MRN HKL000009

Address

Phone And Email

Diagnosis

No known Allergies

Height 155 cm

Weight 55 kg

BMI/BSA 22.9 / 1.54 m²

G6PD

Update (Last Updated : 09/10/2019)

Nationality : Warganegara

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

VISIT/ADMISSION

Encounter No 0002

Visit Type Outpatient

Location Farmasi Klinik Pakar

Department Pharmacy

Clear

Visit Management

Patient Label

Patient sticker

Breast Feeding

Pregnant

Week

PARTIAL SUPPLY

VISIT RECORD

Original Prescriber Name

Original Prescription Serial Number

Patient Diagnosis

Allergy

Adverse Drug Reaction

Nutritional Assessment

Normal Order

Infusion Order

Parenteral Nutrition

Cytotoxic Drug Reconstitution

Therapeutic Drug Monitoring

Radiopharmaceuticals

IV Admixture

Drug Adrenaline Acid Tartrate 1mg/ml Injection

Dosage 1 mg

Admin Route Intravenous Infusion

Frequency Single Dose

Duration 1 Days

Start Date 09/10/2019 10:5

End Date 10/10/2019 10:52

Infuse Over 0 (Hour) : 0 (Minute)

Diluent Sodium Chloride 0.9% with Dextrose 5% 500mL IV so

Fluid Volume 500 ml

Ordered Concentration 0 mg/ml

Infusion Rate 0 ml/Min

Drug Indication Cardiac Stimulants Excl. Cardiac Glycosides

Drug Remarks

Add

Update

Clear

PRESCRIPTION

View Order

Draft

Confirm

Alert

Drug/Diluent Name

Dose Qty

Order Details

Drug Info

No Records Found!

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

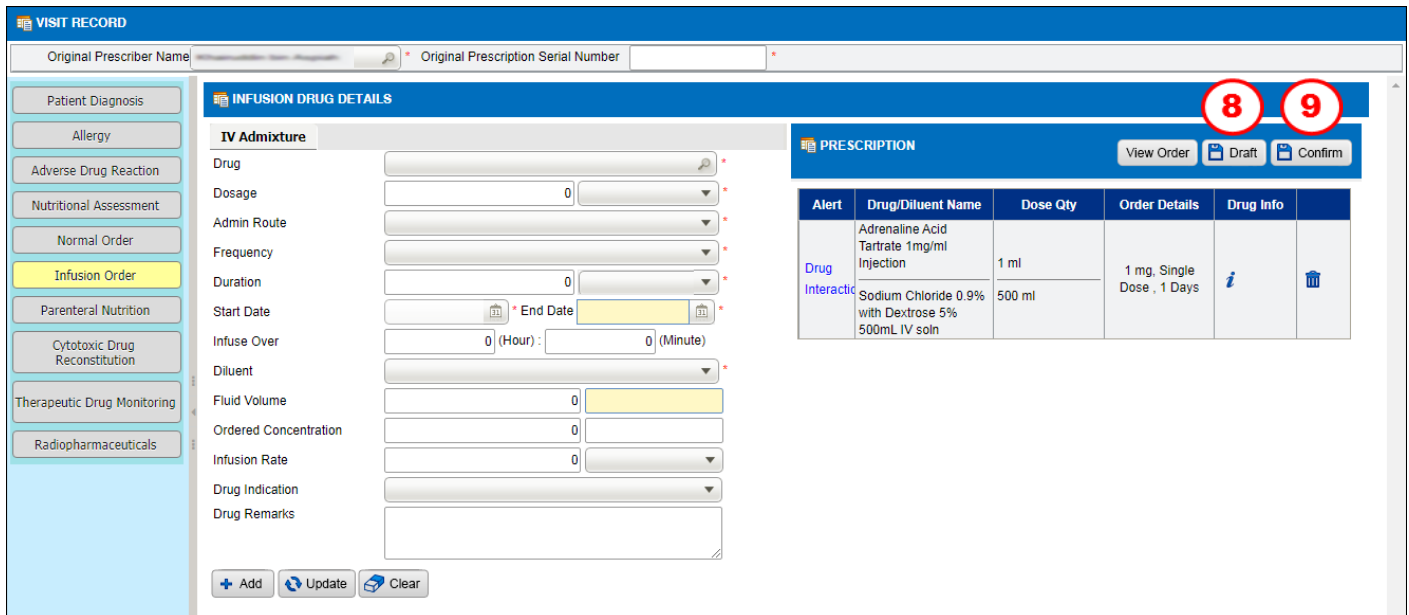




Figure 3.2-6 Infusion Drug Details

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

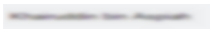
- Click on the  button to view order details as per Figure 3.2-7.

ORDER DETAILS						
Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status
Adrenaline Acid Tartrate 1mg/ml Injection	1 mg	1 ml	0 mg/ml, Single Dose , 1 Days	1 amp		DRAFT
Sodium Chloride 0.9% with Dextrose 5% 500mL IV soln		500 ml		1 bott		

Figure 3.2-7 Order Details

- Click on the  button to view prescription detail as per Figure 3.2-8
- Preview prescription button enable after user confirm the order

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

Patient Name : LXXX XXXX XXX Patient ID : 

Age : 44 Years 01 Months 05 Days MRN: HKL000009

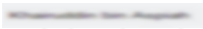
Gender : Female Weight: 55 kg

Location: Farmasi Klinik Pakar Height: 155 cm

Prescription #: FKP0000740984 Order Date/Time: 09/10/2019 11:15 AM

Allergy:


Drug Name	Route	Dosage	Frequency	Start Date	End Date	Duration
Adrenaline Acid Tartrate 1mg/ml Injection	Intravenous Infusion	1mg	Single Dose	09/10/2019	10/10/2019	1Days

Prescribed by 

Designation : Pegawai Perubatan

Figure 3.2-8 Preview Prescription

CONFIRMATION

 CONF5020: Do you want to save and confirm order?

10

Yes

No

Figure 3.2-9 Confirmation

STEP 10

Click on the  button to save and confirm order and new screen will display as per Figure 3.2-10

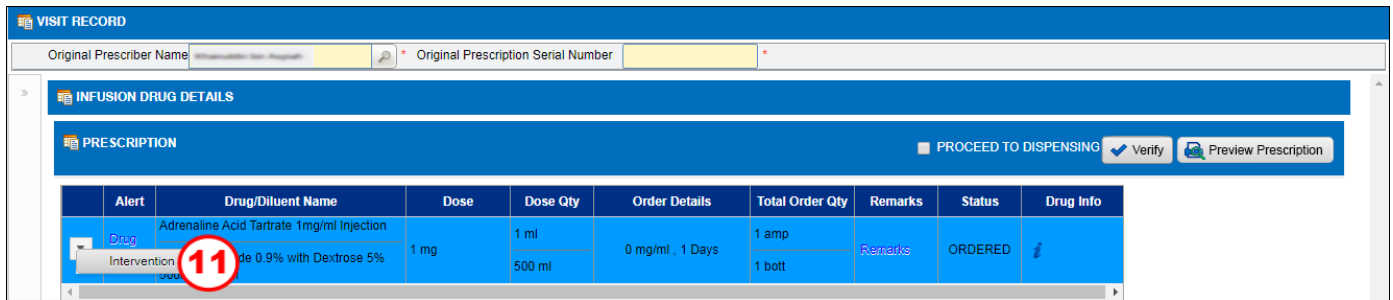


Figure 3.2-10 Infusion Drug Details

STEP 11

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

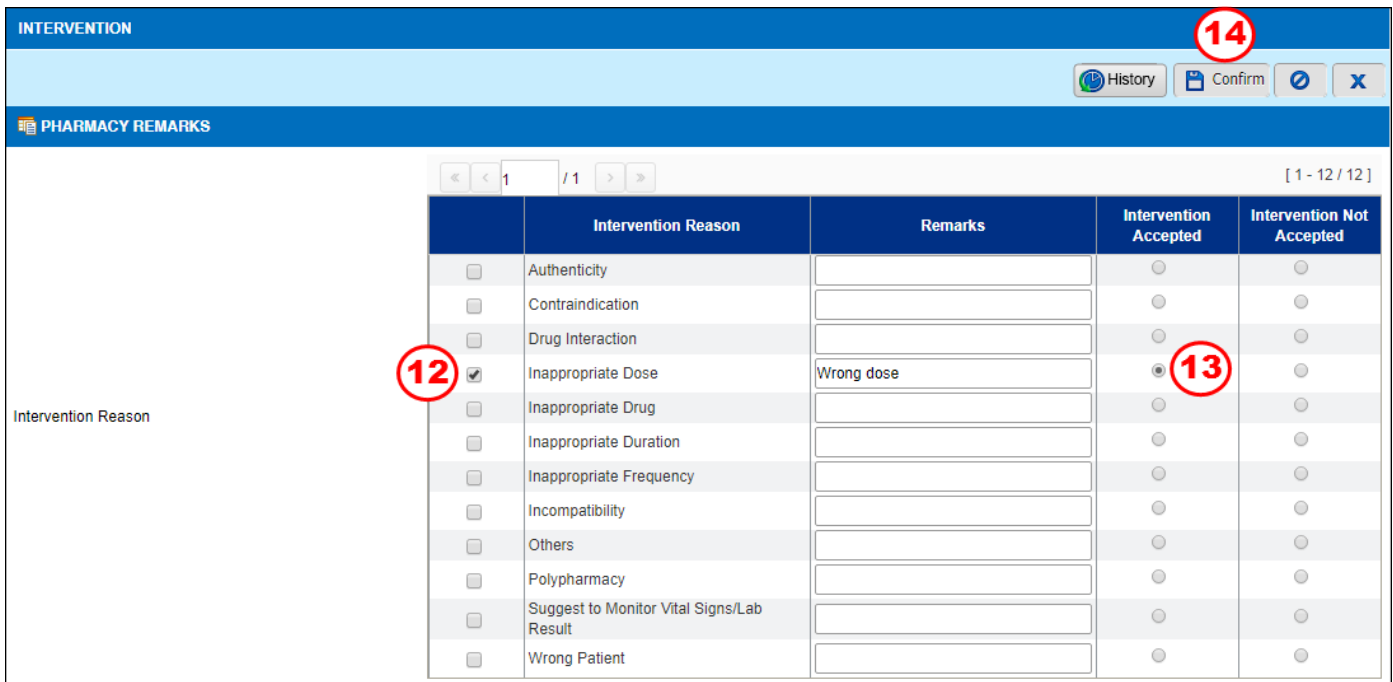


Figure 3.2-11 Intervention

STEP 12

Select **Intervention Reason** from the table

STEP 13

Select **Intervention Status** as follow:

- Accepted
- Not Accepted

STEP 14

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

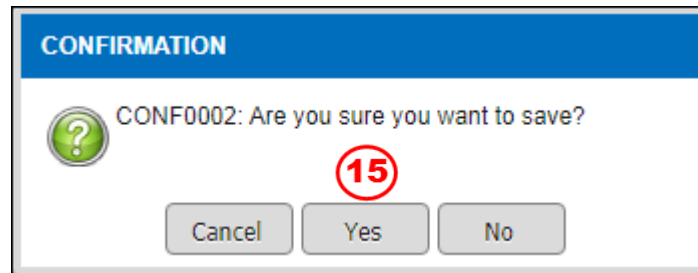
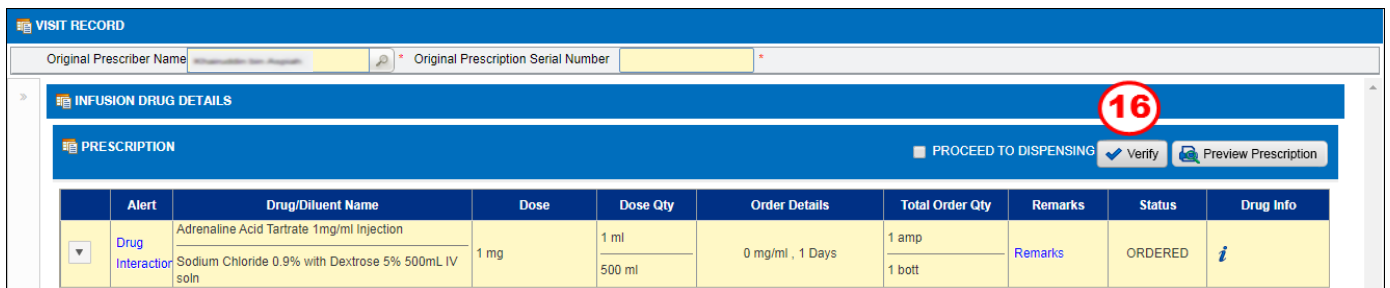


Figure 3.2-12 Confirmation Alert Message

STEP 15

Click on the  button to confirm the intervention



Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug Interaction	Adrenaline Acid Tartrate 1mg/ml Injection	1 mg	1 ml	0 mg/ml , 1 Days	1 amp	Remarks	ORDERED	i
	Sodium Chloride 0.9% with Dextrose 5% 500mL IV soln		500 ml		1 bott			

Figure 3.2-13 Medication Order : Verify

STEP 16

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

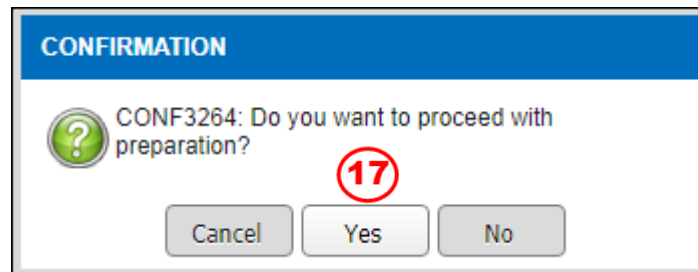


Figure 3.2-14 Alert Confirmation Message

STEP 17

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

IV PREPARATION

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 155 cm Weight 55 kg BMI/BSA 22.9 / 1.54 m²

Update (Last Updated : 09/10/2019) Nationality : Warganegara

Upload Photo

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

Prepare

Worksheet

Label

<< 1 / 1 >>

	Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
	Drug Interaction	Adrenaline Acid Tartrate 1mg/ml Injection	1 mg	1 ml	0 mg/ml, Single Dose , 1 Days	1 amp	0	0 amp	1 amp	Details	0 amp	Remarks	VERIFIED	Drug Info
		Sodium Chloride 0.9% with Dextrose 5% 500mL IV soln		500 ml		1 bott		0 bott	1 bott		0 bott			

Figure 3.2-15 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

<< 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	Adrenaline Acid Tartrate 1mg/ml Injection	1 mg	1 ml	0 mg/ml, Single Dose , 1 Days	1 amp	0	0 amp	1 amp	Details	0 amp	Remarks	VERIFIED	Drug Info
		Sodium Chloride 0.9% with Dextrose 5% 500mL IV soln		500 ml		1 bott		0 bott	1 bott		0 bott			

Alternate Drug


Intervention

Hold Order

Figure 3.2-16 IV Preparation Screen



[Print Original Prescription](#)



LXXX XXXX XXX

Mykad

Age 44 Years 01 Months 05 Days

Gender Female

MRN HKL000009

Address

Phone And Email

Diagnosis

No known Allergies

Height 155 cm

Weight 55 kg

BMI/BSA 22.9 / 1.54 m²

Update (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

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

<

1

/ 1


>

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
<div> <div>Drug</div> <div>Adrenaline Acid Tartrate 1mg/ml Injection</div> </div>	1 mg	1 ml	0 mg/ml, Single Dose , 1 Days	1 amp	0	0 amp	1 amp	<div> <div>Details</div> </div>	0 amp	<div> <div>Remarks</div> </div>	VERIFIED	<div> <div>Drug Info</div> </div>	
<div> <div>Alternate Drug</div> <div>Am Chloride 0.9% with Dose 5% 500mL IV soln</div> </div>	1 mg	500 ml		1 bott		0 bott	1 bott		0 bott				
<div> <div>Intervention</div> </div>													
<div> <div>Hold Order</div> </div>													

Figure 3.2-19 IV Preparation

Note

Intervention

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

INTERVENTION

History Confirm ⌂ ✕

PHARMACY REMARKS

[1 - 12 / 12]

<< < 1 / 1 > >>

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

MODIFY ORDER

Drug Name: Adrenaline Acid Tartrate 1mg/ml Injection

Dosage: 1 * mg

Drug Volume: 1 * ml

Ordered Concentration: 0 mg/ml

Frequency: Single Dose *

Infuse Over: 0 (Hour) 0 (Minute)

Duration: 1 * Days

Start Date: 09/10/2019 *

Remarks:

Dosage Form: Parenteral Solution

Admin Route: Intravenous Infusion

Diluent: Sodium Chloride 0.9% with Dextrose 5% 500mL *

Diluent Volume: 500 * ml

Total Volume: 501 * ml

Infusion Rate: 0 ml/Min

End Date: 10/10/2019

Update By: [User Name]

Updated Date: 09/10/2019

Figure 3.2-20 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 ? X

PHARMACY REMARKS

< 1 / 1 >
[1 - 12 / 12]

	Intervention Reason	Remarks	Intervention Accepted	Intervention Not Accepted
Intervention Reason	<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: 3 * mg

Drug Volume: 3 * ml

Ordered Concentration: 0.01 mg/ml

Frequency: Single Dose *

Infuse Over: 0 (Hour) 0 (Minute)

Duration: 1 * Days *

Start Date: 09/10/2019 *

Remarks:

Dosage Form: Parenteral Solution

Admin Route: Intravenous Infusion

Diluent: Sodium Chloride 0.9% with Dextrose 5% 500mL *

Diluent Volume: 500 * ml

Total Volume: 503 * ml

Infusion Rate: 0 ml/Min

End Date: 10/10/2019

Update By: [User Name]


Updated Date: 09/10/2019 *

Figure 3.2-21 Intervention

Note

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

CONFIRMATION



CONF0002: Are you sure you want to save?

Cancel
Yes
No

Figure 3.2-22 Alert Confirmation Message

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

INTERVENTION REASON HISTORY LISTING			
<div> <div><<</div> <div><</div> <div>1</div> <div>/ 1</div> <div>></div> <div>>></div> </div>			
Date/Time	Intervention Reason	Remarks	Updated By
09/10/2019 12:24 PM	Inappropriate Dose	Wrong dose	XXXXXXXXXX (User Name)

Figure 3.2-23 Intervention Reason History Listing

IV PREPARATION

Print Original Prescription

X

LXXX XXXX XXXX

Mykad

Age 44 Years 01 Months 05 Days

Gender Female

MRN HKL000009

Address

Phone And Email

Diagnosis

No known Allergies

Height 155 cm Weight 55 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

Prepare

Worksheet

Label

<< 1 / 1 >>


Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug	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	Details	0 amp	Remarks	VERIFIED	Drug Info
Alternate Drug Intervention	Chloride 0.9% with 5% 500mL IV soln	3 mg	500 ml		1 bott	0	0 bott	1 bott		0 bott			

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

Hold Remarks

Figure 3.2-25 Hold Order-Pharmacist Remarks



Figure 3.2-26 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

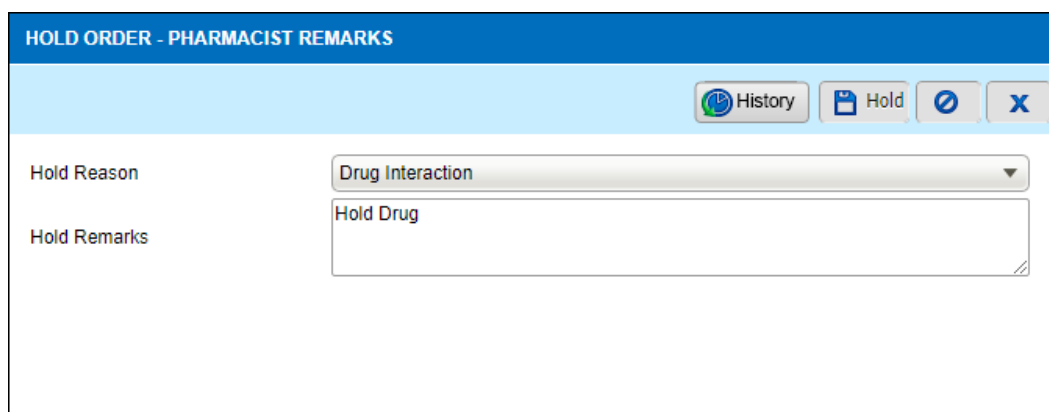



Figure 3.2-27 Hold Order-Pharmacist Remarks

Note

Click on the  button to proceed hold transaction

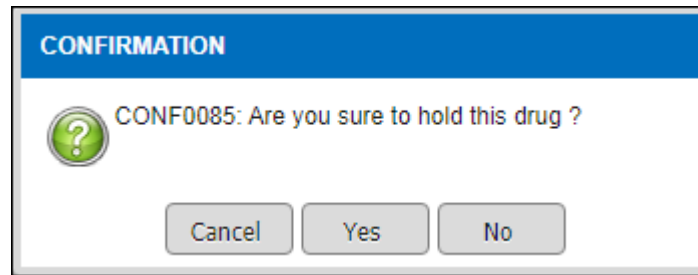



Figure 3.2-28 Alert Confirmation Message

- Click on the  button to confirm the hold order.

IV PREPARATION



Print Original Prescription

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 155 cm Weight 55 kg BMI/BSA 22.9 / 1.54 m²

Update (Last Updated : 09/10/2019) Nationality : Warganegara

Upload Photo

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

Prepare

Worksheet

Label

1 / 1

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interaction	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	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 3.2-29 IV Preparation

Note

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

IV PREPARATION

Print Original Prescription

LXXX XXXX XXX

Mykad

Age 44 Years 01 Months 05 Days

Gender Female

MRN HKL000009

Address

Phone And Email

Diagnosis

No known Allergies

Height 155 cm Weight 55 kg BMI/BSA 22.9 / 1.54 m²

Update (Last Updated : 09/10/2019) Nationality : Warganegara

Upload Photo

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

Prepare

Worksheet

Label

1 / 1

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug	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	0	0 amp	Remarks	VERIFIED HOLD	Drug Info
Alternate Drug Intervention	Chloride 0.9% with 5% 500mL IV soln	3 mg	500 ml		1 bott		0 bott	1 bott	0	0 bott			

Resume Order

Figure 3.2-30 IV Preparation

Note

Resume Order

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

HOLD ORDER - PHARMACIST REMARKS

History

Resume

X

Hold Reason

Drug Interaction

Hold Remarks

Hold Drug

Resume Remarks


Resume hold drug

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.

CONFIRMATION




CONF0087: Are you sure you want to resume ?

Cancel
Yes
No

Figure 3.2-32 Alert Confirmation Message

IV PREPARATION

[Print Original Prescription](#)



Address:

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

Mykad:

Age: 39 Years 05 Months 18 Days Gender: Female

Phone And Email: Diagnosis: No known Allergies

MRN: HPSF00032191

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

PHARMACY ORDER

Supervised By:

PRESCRIPTION

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

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

[1 - 1 / 1]

Double click to view order details

Figure 3.2-33 IV Preparation

STEP 18

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

ITEM BATCH DETAILS

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

Drug Code:

Drug Name:

Order Details:

Default SKU:

Dispense UOM:

BATCH DETAIL

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

Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
130180T	01/01/2016	9959	<input type="text" value="1"/>	19

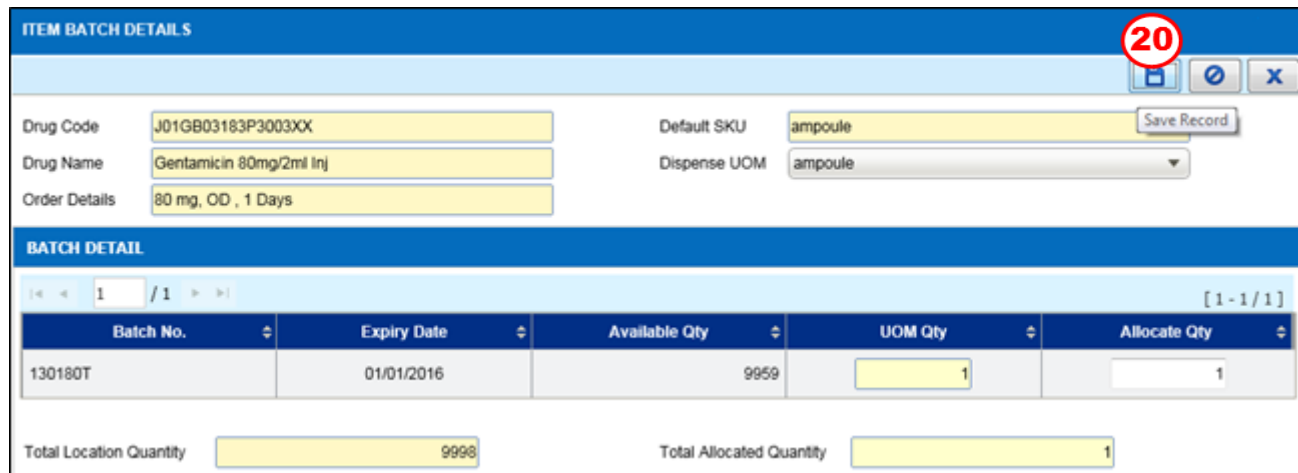
Total Location Quantity:

Total Allocated Quantity:

Figure 3.2-34 Item Batch Details

STEP 19

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



ITEM BATCH DETAILS

Drug Code: J01GB03183P3003XX Default SKU: ampoule Save Record

Drug Name: Gentamicin 80mg/2ml Inj Dispense UOM: ampoule

Order Details: 80 mg, OD, 1 Days

BATCH DETAIL

1 / 1

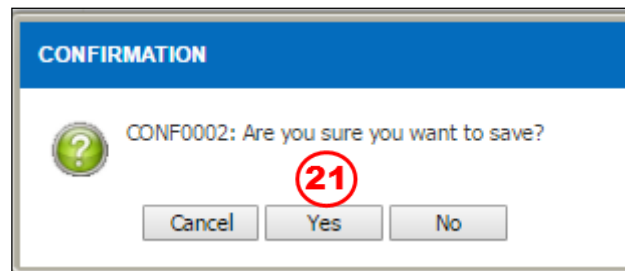
Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
130180T	01/01/2016	9959	1	1

Total Location Quantity: 9998 Total Allocated Quantity: 1

Figure 3.2-35 Item Batch Details

STEP 20

Click on the  button to proceed allocation



CONFIRMATION

CONF0002: Are you sure you want to save?

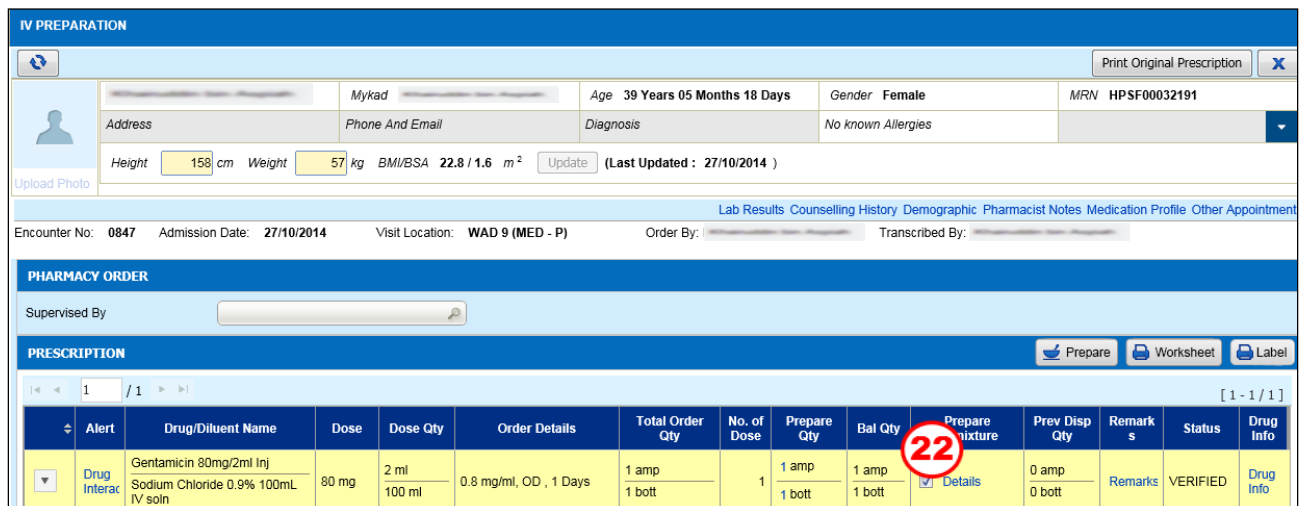
21

Cancel Yes No

Figure 3.2-36 Alert Confirmation Message

STEP 21

Click on the  button



IV PREPARATION

Print Original Prescription

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

Address: Phone And Email: Diagnosis: No known Allergies

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

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

PHARMACY ORDER

Supervised By:

PRESCRIPTION

Prepare Worksheet Label

1 / 1

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

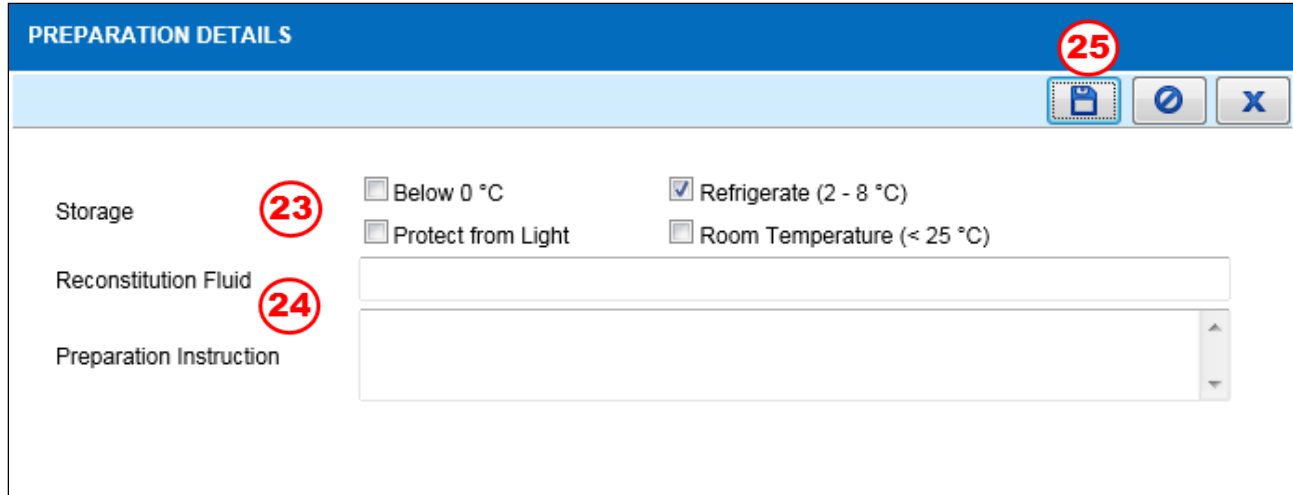
Figure 3.2-37 IV Preparation

STEP 22

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

Note

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



The figure shows a window titled "PREPARATION DETAILS" with a blue header bar. In the top right corner of the header bar is a red circle with the number 25, next to a save icon (floppy disk). Below the header bar are three buttons: a save icon, a refresh icon, and a close icon (X). The main content area has three sections: "Storage" with a red circle 23 next to it, containing checkboxes for "Below 0 °C", "Protect from Light", "Refrigerate (2 - 8 °C)" (which is checked), and "Room Temperature (< 25 °C)"; "Reconstitution Fluid" with a red circle 24 next to it, followed by a text input field; and "Preparation Instruction" followed by a larger text area with a vertical scrollbar.

Figure 3.2-38 Preparation Details

STEP 23

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

STEP 24

Enter *Reconstitution Fluid & Preparation Instruction* if applicable

STEP 25

Click on the  button to save record

Note

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

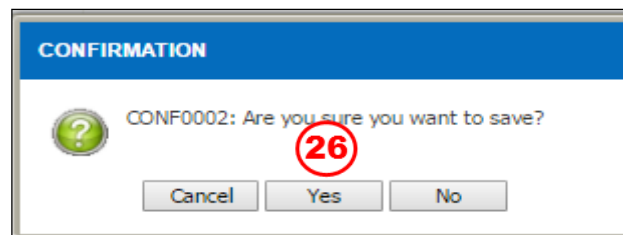




Figure 3.2-39 Alert Confirmation Details

STEP 26

Click on  button to proceed worksheet



Mykad

Address

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

Upload Photo

Mykad

Phone And Email

Age 39 Years 05 Months 18 Days

Diagnosis

Gender Female

No known Allergies

MRN HPSF00032191

Print Original Prescription

X

Lab Results

Counseling History

Demographic

Pharmacist Notes

Medication Profile

Other Appointment

Encounter No: 0847

Admission Date: 27/10/2014

Visit Location: WAD 9 (MED - P)

Order By:

Transcribed By:

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	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			

Figure 3.2-40 IV Preparation

STEP 27


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)				Ordered By						
Order Date		27/10/2014										
No	ROA	Preparation Name	Material Used								Storage	
			Ingredient Name	Dose	Dose Volume	No of Dose	Total Qty	Preparation Qty	Batch No	Expiry Date		
1	INF	Gentamicin 0.8 mg/ml	Gentamicin 80mg/2ml Inj	80 mg	2 ml	1	2 ml	1 amp	130180T	01/01/2016	Refrigerate (2 - 8 °C)	
			-									
			Sodium Chloride 0.9% 100mL IV soln		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 3.2-41 Sample of IV Worksheet

IV PREPARATION

Print Original Prescription X



Upload Photo

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

Address [Blank]
Phone And Email [Blank]
Diagnosis [Blank]
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: [Blank]
Transcribed By: [Blank]

PHARMACY ORDER

Supervised By [Blank]

PRESCRIPTION


Prepare
Worksheet
Label

< 1 / 1 >
[1 - 1] Edit Label

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

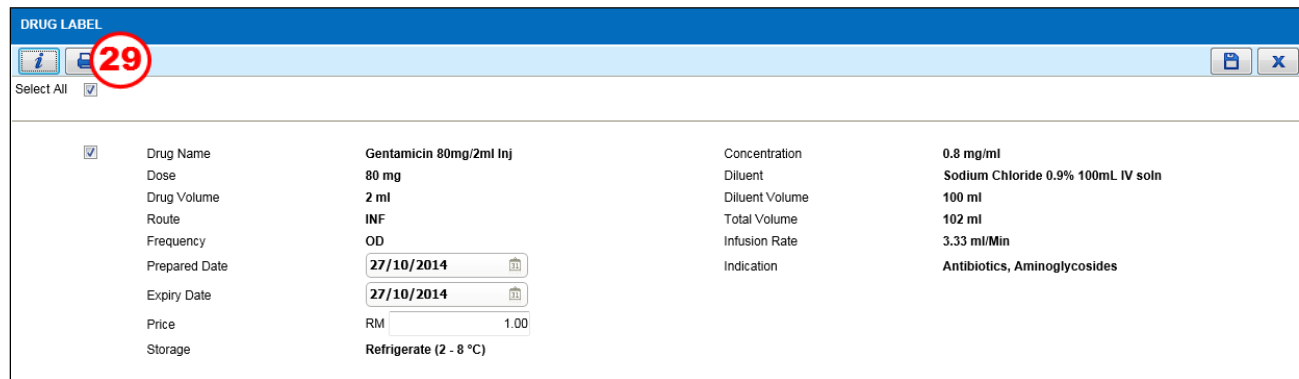
Figure 3.2-42 IV Preparation

STEP 28

Click on  button and window will displayed as per Figure 3.2.43

PB_U. MANUAL_IV-10th E

Page 34




<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 29

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.

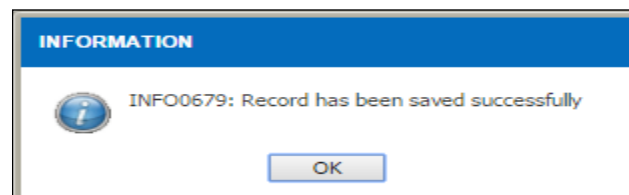


Figure 3.2-44 Alert Information Message

IV Admixture Pharmacy	
HOSPITAL 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 3.2-45 Sample of Drug Label

Note

Sample of IV Admixture Label as per Figure 3.2-46

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: [Redacted] Transcribed By: [Redacted]

PHARMACY ORDER

Supervised By: [Redacted]

PRESCRIPTION 30 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 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 30

Click on the  button to proceed preparation

Note

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

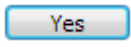
CONFIRMATION

CONF7041: Do you want to proceed with dispensing screen? 31

Cancel Yes No

Figure 3.2-47 Alert Confirmation Message

STEP 31

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: Transcribed By:

Lab Results Counselling History Demographic Pharmacist Notes Medication Profile Other Appointment

PHARMACY ORDER

Dispensed To: AZLEEN BINTI ISMAIL Dispensed Date/Time: 28/10/2014 06:41 Remarks

Dispensed At: Pharmacy Counter Collected By

Supervised By

PRESCRIPTION Release/Discard Dispense Label

1 / 1

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

Figure 3.2-48 IV Dispensing

IV DISPENSING

Print Original Prescription X

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

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

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

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

Lab Results Counselling History Demographic Pharmacist Notes Medication Profile Other Appointment

PHARMACY ORDER

Dispensed To: AZLEEN BINTI ISMAIL Dispensed Date/Time: 28/10/2014 06:41 Remarks

Dispensed At: Pharmacy Counter Collected By

Supervised By


PRESCRIPTION Release/Discard Dispense Label

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

STEP 32

Click on the  button and alert message will be displayed as per Figure 3.2-50

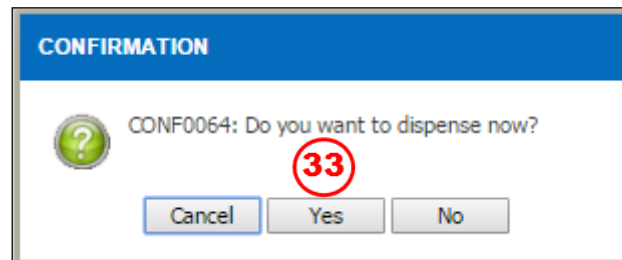
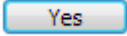


Figure 3.2-50 Alert Confirmation Message

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.

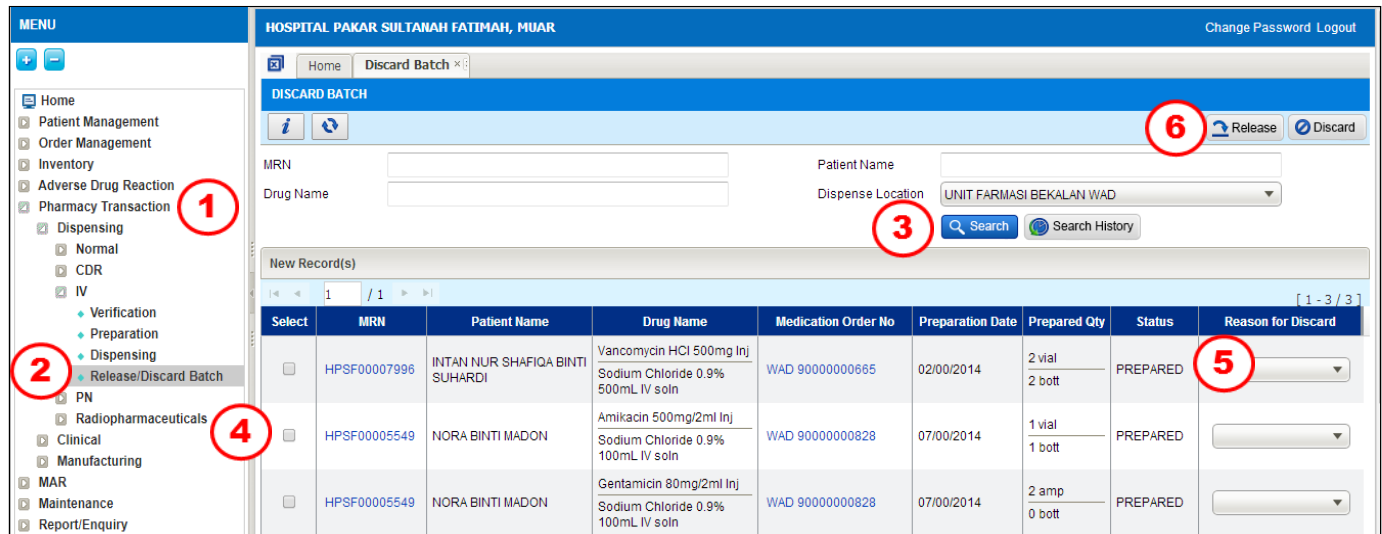


Figure 3.3-1 IV Dispensing: Release/Discard

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


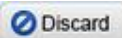
Select Reason for Discard from dropdown box. Select either one of these from discard reason drop down menu: -

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

STEP 6

Click on the  or  button to proceed.

Note

-  : 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	Inpatient	Click Here	12	CDR Dispensing	Click Here
2	CDR Order	Click Here	13	Methadone Dispensing	Click Here
3	TDM Order	Click Here	14	PN Dispensing	Click Here
4	PN Order	Click Here	15	Order Management	Click Here
5	IV Order	Click Here	16	Patient Management	Click Here
6	Prepacking	Click Here	17	Radiopharmaceutical	Click Here
7	Galenical	Click Here	18	Outpatient	Click Here
8	MTAC	Click Here	19	Special Drug Request	Click Here
9	ADR & DAC	Click Here	20	MAR	Click Here
10	Medication Counselling	Click Here	21	DICE	Click Here
11	Ward Pharmacy	Click Here	22		