



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

User Manual IV Dispensing

Version	: 13th Edition
Document ID	: U. MANUAL_IV DISPENSING



PhIS & CPS Project
User Manual – IV Dispensing



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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:

- Acknowledgement
- Screening & Verification
- Preparation
- Dispensing
- Release/Discard Medication

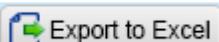
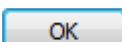
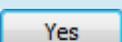
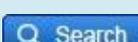
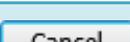
1.3 Organised Sections

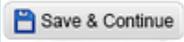
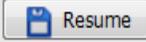
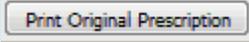
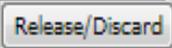
These are the sections within this document:

- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : IV Dispensing
- 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 IV Dispensing

Overview

The IV dispensing module includes implementing safe, organized, and efficient drug-dispensing systems is essential for controlling costs and assuring that the medical prescription is safely followed as requested within the appropriate deadline. An appropriate dispensing system is an important all for the prevention or reduction of medication errors by helping to minimize dispensing error opportunities in a pharmacy. At present there are various types of dispensing systems for medical prescriptions within a hospital

User Group

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

Functional Diagram

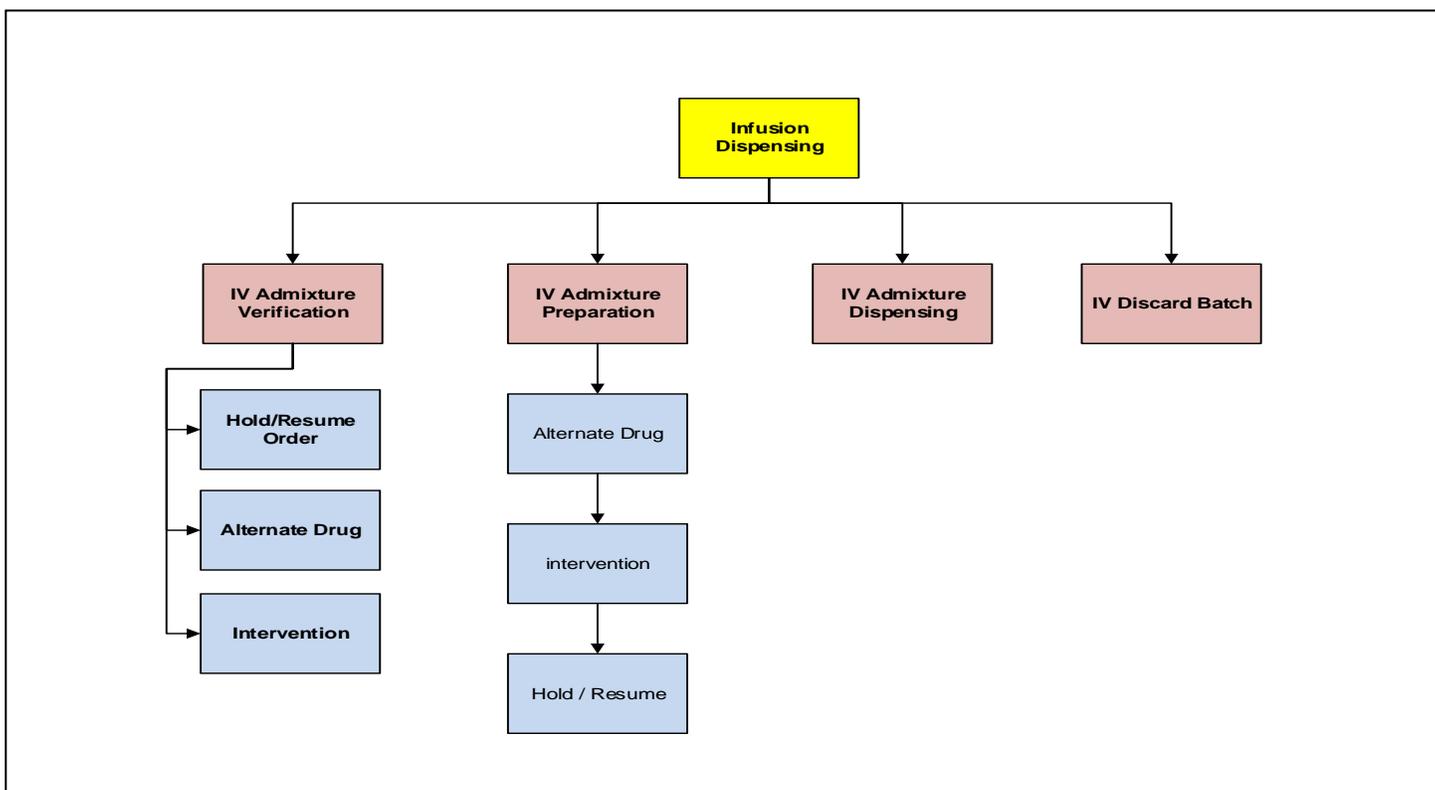


Figure 3.0-1

Functional Description

IV Dispensing comprises of four (4) main functions:

- **Verification**

Verification is for the pharmacist to verify the prescriptions received from order management. This process is mandatory for all prescriptions receive before the user can proceed with dispensing and preparation. There are also safety systems that warn against toxic doses, allergic and cross-reactions, drug interactions, duplication of therapeutic classes, contraindications, and adverse effects.

- **Preparation**

The prescription and the drug preparation are made in the system which is integrated with the inventory system. Pharmacists access the system data directly with no need to send files or manual drug labeling.

- **Dispensing**

The prescription and the dispensing report are made in the system which is integrate with the inventory system.

- **IV Release / Discard Batch**

The function allows the user to release or discard the drug reserved for the patient from inventory. User able to release or discard the prepared drug when unable to dispense to patient due to several reasons and pharmacist to perform the preparation again after release or discard.

3.1 IV Verification

This function is used to verify the prescription before preparation and dispensing stage.

PHARMACY INFORMATION SYSTEM

HOSPITAL SERI MANJUNG

Home Verification

IV - VERIFICATION

Dispense Location: Satellite Pharmacy Patient Name:

Order Status: All Patient MRN:

IC No/Other Identification: IV Order Type: All

Advanced Search

Search

Patient MRN	Patient Name	IC No/Other Identification	Order Date/Time	Order Location	Status	IV Order Type
H: [REDACTED]	TEST PATIENT T05	98070110[REDACTED]	15/09/2022 11:12 AM	WAD 3	ORDERED	IV Inotrope Rx
H: [REDACTED]	050212080133	050212080133	08/08/2022 03:32 PM	WAD 9	ORDERED	IV Admixture
H: [REDACTED]	TEST PATIENT T05	98070110[REDACTED]	08/08/2022 12:02 PM	WAD 3	ORDERED	IV Admixture
H: [REDACTED]	TEST PATIENT T03	880719100909	26/09/2022 04:26 PM	WAD 3	ORDERED	IV Admixture
H: [REDACTED]	LXXXX XXX XXXXX	890411085262	14/06/2022 10:08 AM	WAD 3	ORDERED	IV Inotrope Rx
H: [REDACTED]	NXXXX XXX XXXXXXX XXXXX XXXXX XXXX XXXXXXX	140925120210	08/06/2022 04:02 PM	WAD 3	ORDERED	IV Inotrope Rx
H: [REDACTED]	MXXXX X XXXXX	490526045399	02/06/2022 10:48 AM	WAD 6	ORDERED	IV Inotrope Rx

Figure 3.1-1 Verification Listing Screen

STEP 1

Click on the 'Pharmacy Transaction' menu followed by 'Dispensing' and select 'IV' sub-menu

STEP 2

Click on 'Verification' sub-menu

STEP 3

Click on the button to search for patient

Note

Various search criteria are provided as below:

- a) Basic search
- b) Advance search

IV - VERIFICATION

Dispense Location: Satellite Pharmacy Patient Name:

Order Status: All Patient MRN:

IC No/Other Identification: IV Order Type: All

Order Location Type: All Order Location:

Order Date From: Order Date To:

Basic Search

Search

Figure 3.1-2 Advance Search

Basic Search			
No	Field	Description	Remark
a)	Dispense Location	Dispensing location. (It will list down all active locations)	Able to filter and search patient name by dispensing location
b)	Order Status	- All - New Orders - Outsourced Orders	Search by order status
c)	IC No/Other Identification	IC No/Other Identification	Able to search patient based on MYKAD/MYKID and others identification.
d)	Patient Name	Patient Name	Allow to search by full or partial patient name
e)	Patient MRN	Patient Medical Record Number	Search option: • Type the MRN either in full or partially: <i>Example : HPSF00001234 or "1234"</i>
f)	IV Order Type	- All - IV Admixture - IV Inotrope RX	Able to search patient based on IV Order Type
Advance Search			
g)	Order Location Type	- Order location type (It will list down all active location types)	Able to filter and search patient name by order location type
h)	Order Date from	Order confirmed date	Allow to search by start date of order created
i)	Order Location To	It will list down all active locations	Able to filter and search patient name by order location
j)	Order Date To	It will list down all active location	Able to filter and search patient name by order location.

Table 3.1-1

Note

Search results of patient record list will display:

- Patient MRN
- Patient Name
- IC No/Other Identification
- Order Date/Time
- Order Location
- Status
- IV Order Type

IV Admixture:

Patient MRN	Patient Name	IC No/Other Identification	Order Date/Time	Order Location	Status	IV Order Type
H: [REDACTED]	050212080133	050212080133	08/08/2022 03:32 PM	WAD 9	ORDERED	IV Admixture
H: [REDACTED]	TEST PATIENT T05	980701109091	08/08/2022 12:02 PM	WAD 3	ORDERED	IV Admixture
H: [REDACTED]	TEST PATIENT T03	880719100909	26/09/2022 04:26 PM	WAD 3	ORDERED	IV Admixture
H: [REDACTED]	MXXXX X XXXXX	490526045399	02/06/2022 10:37 AM	WAD 6	ORDERED	IV Admixture
H: [REDACTED]	TEST PATIENT01	200310108080	27/09/2022 09:03 AM	WAD 3	ORDERED	IV Admixture
H: [REDACTED]	FXXXXXX XXXXX XXX XXX	600626095080	16/06/2021 11:38 AM	WAD 9	ORDERED	IV Admixture
H: [REDACTED]	AXXXX XXXXX XXX XXXXX	610307085378	02/03/2021 10:33 AM	WAD 3	ORDERED	IV Admixture

Figure 3.1-3 Verification Listing Screen

STEP 4

Double click on the selected patient with IV Order Type as IV Admixture

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug Interaction	Amikacin 500mg/2ml Injection	500 mg	2 ml	1 mg/ml, STAT, 1 Days	1 vial	Remarks	ORDERED (Authorised)	Drug Info
	Sodium Chloride 0.9% 500mL IV soln		500 ml		1 bott			

Figure 3.1-4 Verification IV Admixture

Note

- User have the option to .
- Double click on the selected drug to view order details.

STEP 5

Click on the button and system will display alert message as show in per Figure 3.1-5

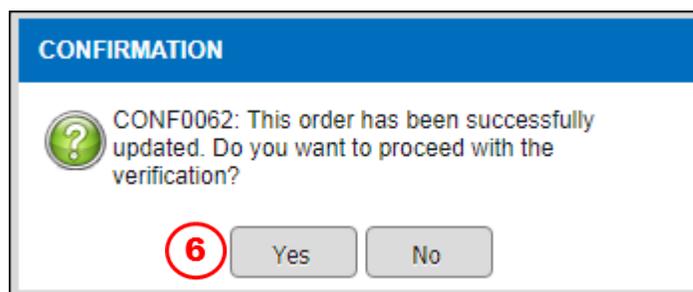
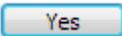


Figure 3.1-5 Verification Alert Message

STEP 6

Click on the  button to proceed with verification

Note

IV Admixture record will be flow to preparation stage

IV Inotrope RX:

PHARMACY INFORMATION SYSTEM

HOSPITAL SERI MANJUNG Logout

Home Verification

IV - VERIFICATION

Dispense Location: Satellite Pharmacy Patient Name:

Order Status: All Patient MRN:

IC No/Other Identification: IV Order Type: IV Inotrope Rx

Advanced Search Search

[1 - 6 / 6]

Patient MRN	Patient Name	IC No/Other Identification	Order Date/Time	Order Location	Status	IV Order Type
H-XXXXXX	TEST PATIENT T05	980701109091	15/09/2022 11:12 AM	WAD 3	ORDERED	IV Inotrope Rx
H-XXXXXX	LXXXX XXX XXXXX	890411085262	14/06/2022 10:08 AM	WAD 3	ORDERED	IV Inotrope Rx
H-XXXXXX	NXXXX XXX XXXXXXX XXXXX XXXXX XXXX XXXXXXX	140925120210	08/06/2022 04:02 PM	WAD 3	ORDERED	IV Inotrope Rx
H-XXXXXX	MXXXX X XXXXX	490526045399	02/06/2022 10:48 AM	WAD 6	ORDERED	IV Inotrope Rx
H-XXXXXX	MXXXX X XXXXX	490526045399	02/06/2022 10:36 AM	WAD 6	ORDERED	IV Inotrope Rx
H-XXXXXX	YXXXXXXXXX /X XXXXXXXX	861008385131	02/06/2022 10:31 AM	WAD 6	ORDERED	IV Inotrope Rx

Figure 3.1-6 Verification IV Inotrope RX

STEP 1

Double click on the selected patient with IV Order Type as IV Inotrope RX

IV VERIFICATION Print Original Prescription X

MyKid: 1-XXXXXX Age: 08 Years 02 Days Gender: Female MRN: H-XXXXXX

Address: XXXX XXXX XXXX XXXX XXXX Phone And Email: XXXX XXXX XXXX XXXX Diagnosis: XXXX XXXX XXXX XXXX Allergy: No Known Allergies Vital Sign:

Height: 135 cm Weight: 25 kg BMI/BSA: 13.7 / 0.97 m² Update (Last Updated:) Nationality: Warganegara

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

Encounter No: 1800 Actual Admission Date: 08/06/2022 Attending Practitioner: Visit Location: WAD 3 Order By: Prescriber Dept.:

PRESCRIPTION Verify

[1 - 1 / 1]

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug Interaction	Noradrenaline Acid Tartrate 4 mg/4 ml Injection	1mcg/kg/min	1 ml	4mcg/kg/min, CONT , 7 Days	9 amp	Remarks	ORDERED	Drug Info
	Sodium Chloride 0.9% 500mL IV soln		25 ml		500 ml			

Figure 3.1-7 Verification IV Inotrope RX

Note

- User have the option to Print Original Prescription.
- Double click on the selected drug to view order details.

STEP 2

Click on the Verify button and system will display alert message as show in per Figure 3.1-8

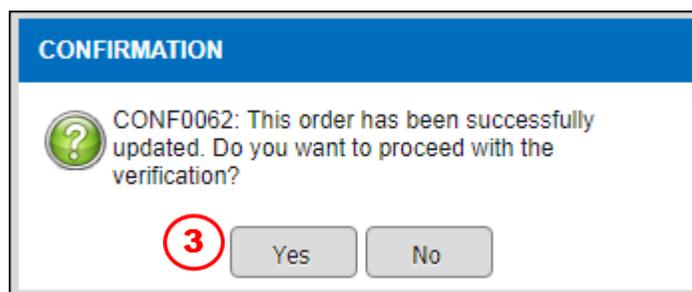
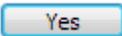


Figure 3.1-8 Verification Alert Message

STEP 3

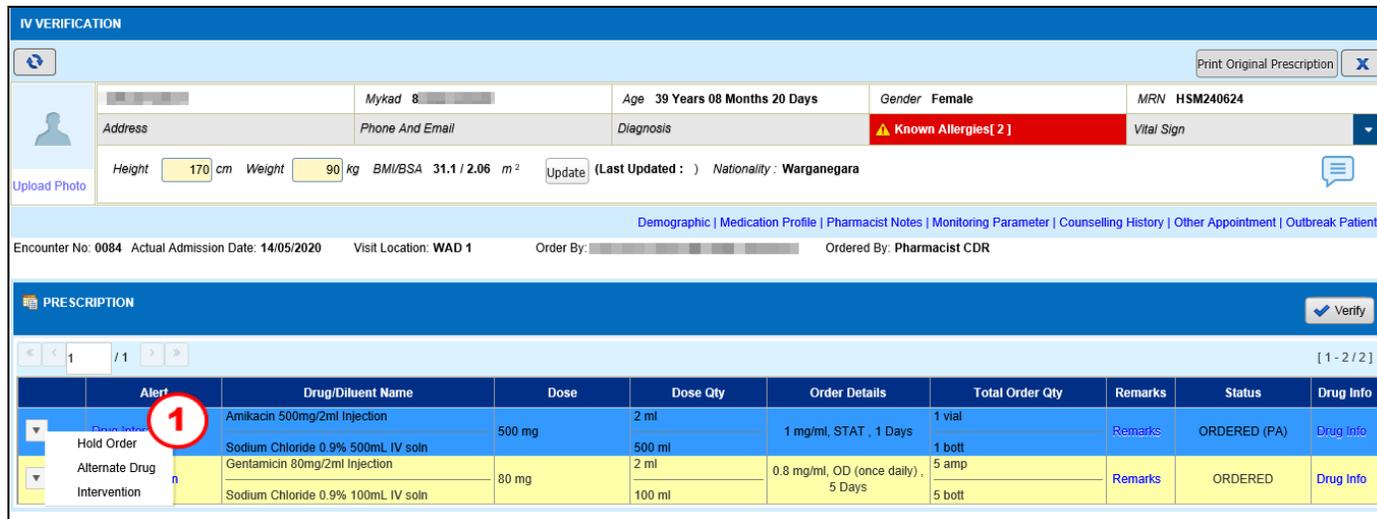
Click on the  button to proceed with verification

Note

IV Inotrope RX record will not flow to preparation and dispensing after verification

3.1.1 Hold/Resume Order

This function allows Pharmacist to hold medication from being prepared or dispense; the user may resume the medication order to continue dispensing.



Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
1	Amikacin 500mg/2ml Injection	500 mg	2 ml	1 mg/ml, STAT , 1 Days	1 vial	Remarks	ORDERED (PA)	Drug Info
	Sodium Chloride 0.9% 500mL IV soln		500 ml		1 bott			
	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, OD (once daily) , 5 Days	5 amp	Remarks	ORDERED	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		5 bott			

Figure 3.1.1-1 Prescription Listing Screen

Note

To Hold/Resume order, repeat as in Verification process from **Step 1** to **4**.

Hold Order

STEP 1

Right click on the  button and select **Hold Order**

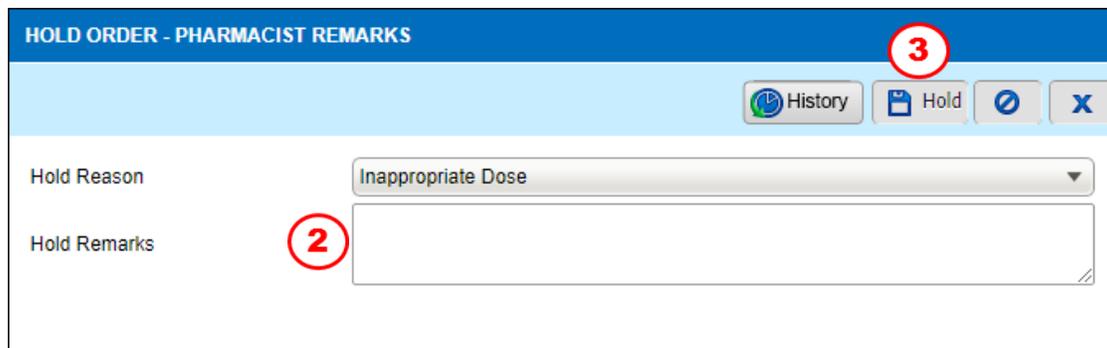


Figure 3.1.1-2 Hold Order Screen

STEP 2

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

- Patient Refused
- Intervention
- Others
- Suggest to Monitor Vital Signs/Lab Result
- Incompatibility
- Authenticity
- Contraindication
- Drug Interaction

- Polypharmacy
- Wrong Patient
- Inappropriate Dose
- Inappropriate Drug
- Inappropriate Duration
- Inappropriate Frequency

STEP 3

Click on the  button to proceed with hold transaction

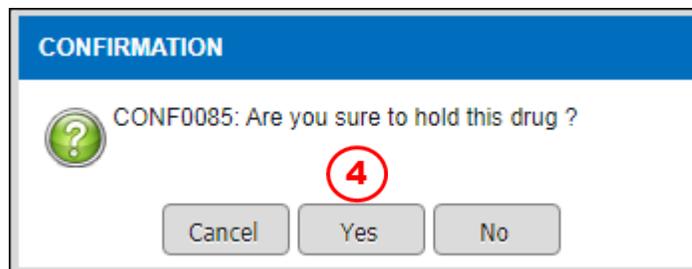
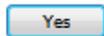


Figure 3.1.1-3 Hold Order Screen

STEP 4

Click on the  button to confirm the hold order

IV VERIFICATION

830525125838 Mykad 830525125838 Age 39 Years 08 Months 20 Days Gender Female MRN HSM240624

Address Phone And Email Diagnosis ▲ Known Allergies[2] Vital Sign

Height 170 cm Weight 90 kg BMI/BSA 31.1 / 2.06 m² Update (Last Updated :) Nationality : Warganegara

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

Encounter No: 0084 Actual Admission Date: 14/05/2020 Visit Location: WAD 1 Order By: DR. NOOR SUZANA BINTI GHAZALI Ordered By: Pharmacist CDR

PRESCRIPTION Verify

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Drug Interaction	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, OD (once daily) , 5 Days	5 amp	Remarks	ORDERED	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		5 bott			
	Amikacin 500mg/2ml Injection	500 mg	2 ml	1 mg/ml, STAT , 1 Days	1 vial	Remarks	ORDERED HOLD (PA)	Drug Info
	Sodium Chloride 0.9% 500mL IV soln		500 ml		1 bott			

Alert dropdown menu: Alternate Drug, Intervention, Resume Order (1)

Figure 3.1.1-4 Prescription Listing Screen

Resume Order

STEP 1

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

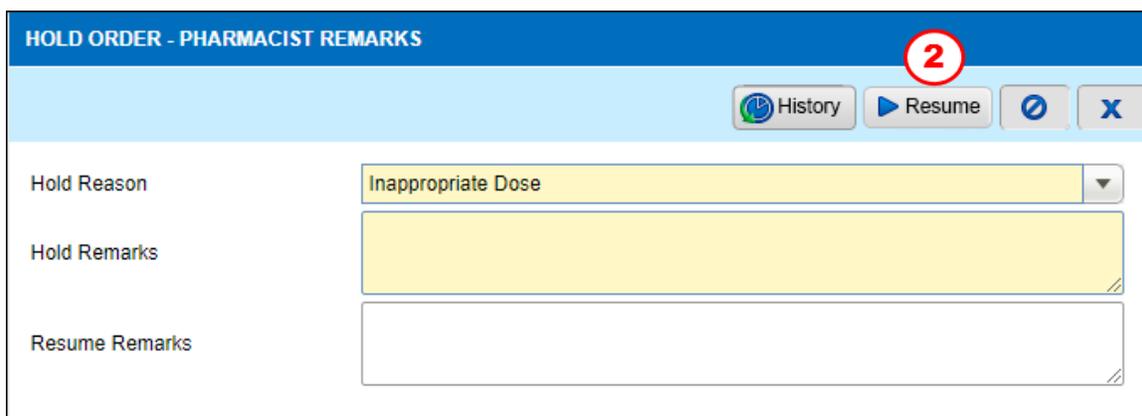


Figure 3.1.1-5 Hold Order Screen

STEP 2

Click on the  button to resume hold order

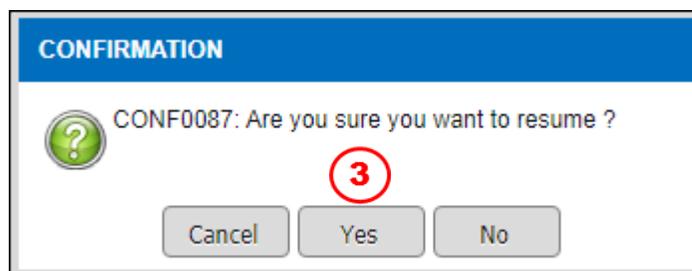


Figure 3.1.1-6 Hold Order Screen

STEP 3

Click on the  button to release drug from hold

3.1.2 Alternate Drug

This function allow user to select different drugs with the same active ingredient and same administration route.

IV VERIFICATION

[Print Original Prescription](#) ✕

	Mykad 8	Age 39 Years 08 Months 20 Days	Gender Female	MRN HSM240624
Address	Phone And Email	Diagnosis	⚠️ Known Allergies[2]	Vital Sign

Height cm Weight kg BMI/BSA 31.1 / 2.06 m² (Last Updated :) Nationality : Warganegara

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

Encounter No: 0084 Actual Admission Date: 14/05/2020 Visit Location: WAD 1 Order By: Ordered By: Pharmacist CDR

PRESCRIPTION ✓ Verify

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
Hold Order	Amikacin 500mg/2ml Injection	500 mg	2 ml	1 mg/ml, STAT , 1 Days	1 vial	Remarks	ORDERED (PA)	Drug Info
Alternate Drug 1	Sodium Chloride 0.9% 500mL IV soln		500 ml		1 bott			
Intervention	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, OD (once daily) , 5 Days	5 amp	Remarks	ORDERED	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		5 bott			

Figure 3.1.2-1 Prescription Listing Screen

Note

To create Alternate drug record repeat as Verification process from **Step 1** to **4**.

STEP 1

Right click on the button and select Alternate Drug

Note

Alternate drug screen consist of three (3) sections:

a) Alternate Drug Detail

- **Location, Dosage Form, Route, ordered drug Code, Ordered Drug Description, Alternate Drug Name** will be retrieved from medication order and drug master setup.

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.

ALTERNATE DRUG DETAILS

Location: UNIT FARMASI PENGELUARAN FARMASEUTIKAL	Ordered Drug Code: J01GB06183P3002XX
Dosage Form: Parenteral Solution	Ordered Drug Description: Amikacin 500mg/2ml Injection
Route: IV	Alternate Drug Name: 2 Amikacin 250mg/2ml Injection
Order Details: 500 mg, Single Dose, 1 Days	Alternate Drug Order Qty (Total Order Qty: 2 vial): 0 vial

BATCH DETAIL

No	Drug Name	Dosage Form	Route	Batch	Expiry Date	Available Qty	Units	Qty to Dispense
1	Amikacin 250mg/2ml Injection	Parenteral Solution	IV	12	23/11/2017	11110	vial	0

DILUENT BATCH DETAIL

Diluent: Sodium Chloride 0.9% 500mL IV soln	Diluent Order Qty (Total Order Qty: 1 bott): 0 bottle
---	---

No	Drug Name	Dosage Form	Route	Batch	Expiry Date	Available Qty	Units	Qty to Dispense
1	Sodium Chloride 0.9% 500mL IV soln	Parenteral Solution	IV	11THSC2016	12/07/2020	0	bottle	0
				P3105166	12/07/2020	0	bottle	0
				P3106105	04/05/2021	70	bottle	0

Reason: <input type="text"/>	Remark: <input type="text"/>
------------------------------	------------------------------

Figure 3.1.2-2 Alternate screen

STEP 2

Select **Alternate Drug Name** from dropdown box

Note

Alternate drug screen consists of three (3) sections:

a) *Alternate Drug Detail*

- **Location, Dosage Form, Route, Ordered Drug Code, Ordered Drug Description, Alternate Drug Name** will be retrieved from medication order and drug master setup.

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.

ALTERNATE DRUG DETAILS

Location: UNIT FARMASI PENGELUARAN FARMASEUTIKAL
 Dosage Form: Parenteral Solution
 Route: IV
 Order Details: 500 mg, Single Dose, 1 Days

Ordered Drug Code: J01GB06183P3002XX
 Ordered Drug Description: Amikacin 500mg/2ml Injection
 Alternate Drug Name: Amikacin 250mg/2ml Injection
 Alternate Drug Order Qty (Total Order Qty: 2 vial): 1 vial

BATCH DETAIL

No	Drug Name	Dosage Form	Route	Batch	Expiry Date	Available Qty	Units	Qty to Dispense
1	Amikacin 250mg/2ml Injection	Parenteral Solution	IV	12	23/11/2017	11110	vial	1

DILUENT BATCH DETAIL

Diluent: Sodium Chloride 0.9% 500mL IV soln
 Diluent Order Qty (Total Order Qty: 1 bott): 1 bottle

No	Drug Name	Dosage Form	Route	Batch	Expiry Date	Available Qty	Units	Qty to Dispense
1	Sodium Chloride 0.9% 500mL IV soln	Parenteral Solution	IV	11THSC2016	12/07/2020	0	bottle	0
				P3105166	12/07/2020	0	bottle	0
				P3106105	04/05/2021	70	bottle	1

Reason: Remark:

Figure 3.1.2-3 Alternate screen

STEP 3

Select **Diluent** from dropdown box

STEP 4

Enter quantity to dispense under **Batch Detail** section

STEP 5

Enter quantity to dispense under **Diluent Batch Detail** section

STEP 6

Click on the button to confirm alternate drug

Figure 3.1.2-4 Prescription Listing Screen After Done Alternate

STEP 7

Click on the button to save record

Note

- Value of **Alternate Drug Name** and **Diluent** from dropdown menu will be defined in drug master setup.
- **Batch Detail** will display the **earliest expiration date**.

- After completing the alternate drug selected, the drug will change to green colour as shown in figure 3.1.2-5.

PRESCRIPTION Verify														
[1 / 1] [1 - 2 / 2]														
	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	Amikacin 500mg/2ml Injection Sodium Chloride 0.9% 500mL IV soin	500 mg		1 mg/ml, Single Dose , 1 Days	0 vial 0 bott	0	0 vial 0 bott	1 vial 1 bott		0 vial 0 bott	Remarks	VERIFIED (PA)	Drug Info
		Amikacin 250mg/2ml Injection Sodium Chloride 0.9% 500mL IV soin		4 ml 500 ml		2 vial 1 bott		1 vial 1 bott		<input type="checkbox"/> Details				

Figure 3.1.2-5 Prescription Listing Screen After Done Alternate

3.1.3 Intervention

This function allow user to modify drugs details frequency, duration and form. This function is available in verification screen and preparation screen.

IV VERIFICATION

	Mykad: 8	Age: 39 Years 08 Months 20 Days	Gender: Female	MRN: HSM240624
Address	Phone And Email	Diagnosis	⚠️ Known Allergies[2]	Vital Sign

Height: 170 cm Weight: 90 kg BMI/BSA: 31.1 / 2.06 m² (Last Updated :) Nationality: Warganegara

PRESCRIPTION

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info
<input type="button" value="Down Arrow"/>	Amikacin 500mg/2ml Injection	500 mg	2 ml	1 mg/ml, STAT , 1 Days	1 vial	Remarks	ORDERED (PA)	Drug Info
<input type="button" value="Down Arrow"/>	Sodium Chloride 0.9% 500mL IV soln		500 ml		1 bott			
<input type="button" value="Down Arrow"/>	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, OD (once daily) , 5 Days	5 amp	Remarks	ORDERED	Drug Info
<input type="button" value="Down Arrow"/>	Sodium Chloride 0.9% 100mL IV soln		100 ml		5 bott			

Figure 3.1.3-1 Prescription Listing Screen

Note

To perform Intervention repeat as in Verification process from **Step 1 to 4**.

STEP 1

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

INTERVENTION 5

History Confirm Refresh Close

PHARMACY REMARKS

<< 1 / 2 >> [1 - 15 / 22]

	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 checked="" type="checkbox"/>	Drug Interaction		<input checked="" type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Drug Not In Formulary		<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"/>	Incomplete Rx - Countersign		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incomplete Rx - Dose		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incomplete Rx - Dr's Stamp and Sign		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incomplete Rx - Drug		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incomplete Rx - Duration		<input type="radio"/>	<input type="radio"/>
<input type="checkbox"/>	Incomplete Rx - Frequency		<input type="radio"/>	<input type="radio"/>

MODIFY ORDER

<div style="margin-bottom: 5px;">Drug Name Gentamicin 80mg/2ml Injection 4</div> <div style="margin-bottom: 5px;">Dosage 80 * mg</div> <div style="margin-bottom: 5px;">Drug Volume 2 * ml</div> <div style="margin-bottom: 5px;">Ordered Concentration 0.8 mg/ml</div> <div style="margin-bottom: 5px;">Frequency OD (once daily) *</div> <div style="margin-bottom: 5px;">Infuse Over 0 (Hour) 30 (Minute)</div> <div style="margin-bottom: 5px;">Duration 5 * Days</div> <div style="margin-bottom: 5px;">Start Date 14/07/2020 *</div> <div style="margin-bottom: 5px;">Remarks </div>	<div style="margin-bottom: 5px;">Dosage Form Parenteral Solution</div> <div style="margin-bottom: 5px;">Admin Route IV Infusion</div> <div style="margin-bottom: 5px;">Diluent Sodium Chloride 0.9% 100mL IV soln *</div> <div style="margin-bottom: 5px;">Diluent Volume 100 * ml</div> <div style="margin-bottom: 5px;">Total Volume 7 * ml</div> <div style="margin-bottom: 5px;">Infusion Rate 3.33 ml/Min</div> <div style="margin-bottom: 5px;">End Date 19/07/2020</div> <div style="margin-bottom: 5px;">Update By DR. NOOR SUZANA BINTI GHAZALI</div> <div style="margin-bottom: 5px;">Updated Date 14/07/2020</div>
---	--

Figure 3.1.3-2 Intervention Screen

STEP 2

Select **Intervention Reason** from drop down box

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

STEP 3

Select on **Accepted** radio button under Intervention Status

Note

Pharmacist will select the **Intervention Status** radio button after confirming the intervention status with prescriber.

STEP 4

Change Modify Order details as required

STEP 5

Click on the  button to save the changes

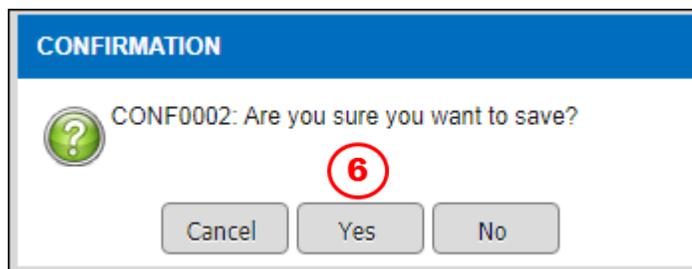
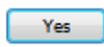


Figure 3.1.3-3 Alert Message

STEP 6

Click on the  button to confirm the intervention

PRESCRIPTION									
Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	Remarks	Status	Drug Info	
Drug Interaction	Cefuroxime 750mg Injection	800 mg	6.4 ml	8 mg/ml, Q8H , 6 Days	36 vial	Remarks	DRAFT	Drug Info	
	Sodium Chloride 0.9% 100mL IV soln		100 ml		18 bott				

Figure 3.1.3-4 Prescription Listing Screen After Done Intervention

Note

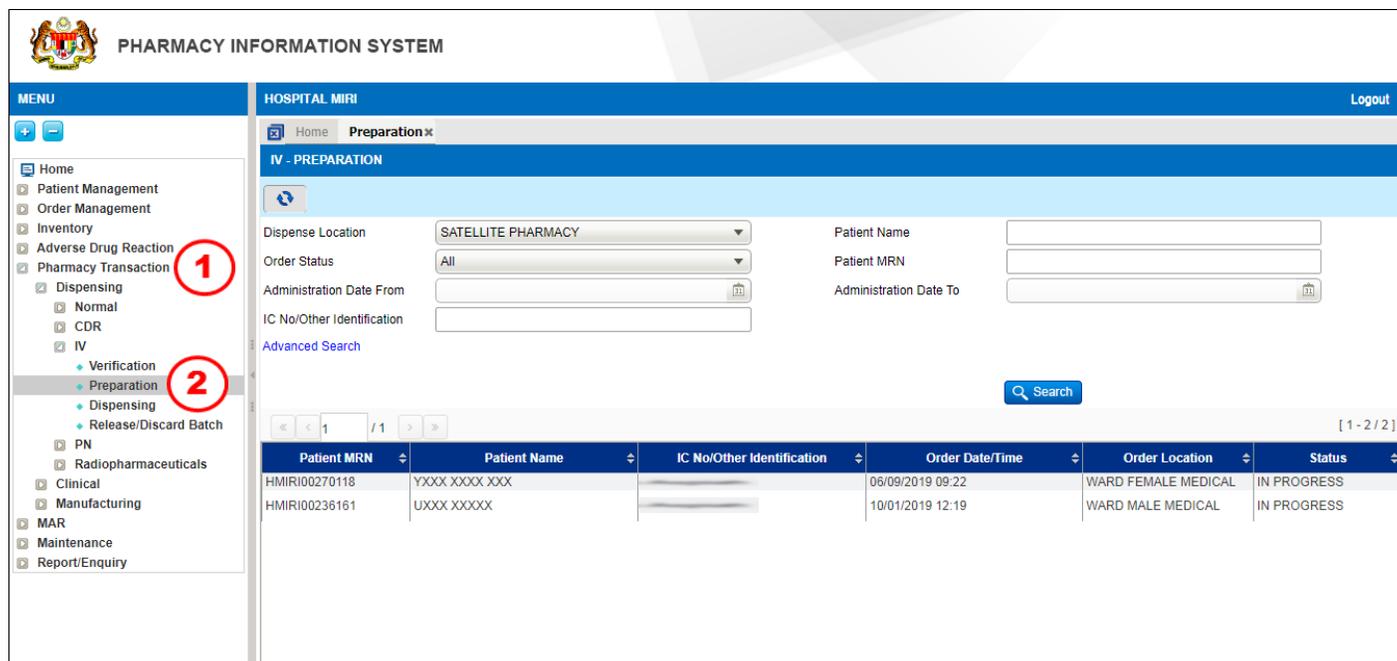
- After intervention is made, Order Details column will be changed to blue hyperlink. User may click to view the original order details.
- Order details will be displayed as shown in per Figure 3.1.3-5

ORIGINAL RX										
Dose	Frequency	Duration	Start Date	End Date	Intervention Reason	Other Reason	Infuse Over	Diluent	Diluent Volume	Infusion Rate
750 mg	Q8H	7 Days	08/10/2019	15/10/2019	Others, Others	test	30 Minutes	Sodium Chloride 0.9% 100mL IV soln	100 ml	3.33 ml/Min
800 mg	Q8H	6 Days	08/10/2019	14/10/2019			30 Minutes	Sodium Chloride 0.9% 100mL IV soln	100 ml	3.33 ml/Min

Figure 3.1.3-5 Original Rx Screen

3.2 IV Admixture Preparation

This function is used to record preparation of IV before the dispensing stage.



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Preparation x

IV - PREPARATION

Dispense Location: SATELLITE PHARMACY
 Order Status: All
 Administration Date From:
 IC No/Other Identification:

Patient Name:
 Patient MRN:
 Administration Date To:

Advanced Search

< 1 / 1 >

Patient MRN	Patient Name	IC No/Other Identification	Order Date/Time	Order Location	Status
HMIRI00270118	YXXX XXXX XXX		06/09/2019 09:22	WARD FEMALE MEDICAL	IN PROGRESS
HMIRI00236161	UXXX XXXXX		10/01/2019 12:19	WARD MALE MEDICAL	IN PROGRESS

Figure 3.2-1 Preparation Listing Screen

STEP 1

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

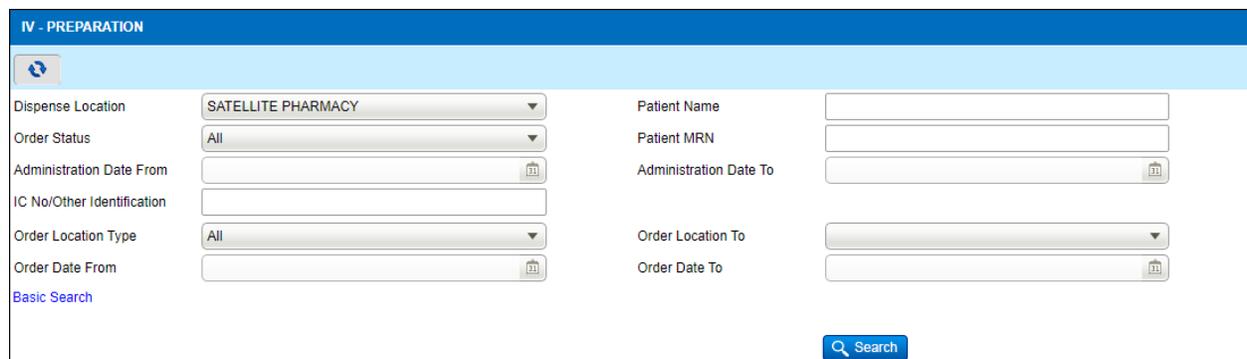
STEP 2

Click on 'Preparation' sub-menu

Note

Various search criteria are is provided as below:

- a) Basic search
- b) Advance search



IV - PREPARATION

Dispense Location: SATELLITE PHARMACY
 Order Status: All
 Administration Date From:
 IC No/Other Identification:

Order Location Type: All
 Order Date From:

Patient Name:
 Patient MRN:
 Administration Date To:

Order Location To:
 Order Date To:

Basic Search

Figure 3.2-2 Advance search

Advance Search			
No	Field	Description	Remark
a)	Dispense Location	Dispensing location. (It will list down all active locations)	Able to filter and search patient name by dispensing location
b)	Order Status	All New Orders Outsourced Orders	Able to filter status prescription by order status
c)	Patient Name	Patient Name	Allow to search by full or partial patient name
d)	Patient MRN	Patient Medical Record Number	Search option: • Type the MRN either in full or partially: <i>Example : HPSF00001234 or "1234"</i>
e)	Administration Date From	Administration Date From	Able to search date before
f)	Administration Date To	Administration Date To	Able to search date current
g)	IC No/Other Identification	IC No/Other Identification	Able to search patient based on MYKAD/MYKID and others identification.
Advance Search			
h)	Order Location Type	- Order location type (It will list down all active location types)	Able to filter and search patient name by order location type
i)	Order Date from	Order confirmed date	Allow to search by start date of order created
j)	Order Location	It will list down all active location	Able to filter and search patient name by order location
k)	Order Date To	Order confirmed date	Allow to search by selected duration of order created

Table 3.2-1

Note

Search result of patients record list will display:

- Patient MRN
- Patient Name
- IC No/Other Identification
- Order Date/Time
- Order Location
- Status
- IV Order type

PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home Preparation x

IV - PREPARATION

Dispense Location: SATELLITE PHARMACY Patient Name:

Order Status: All Patient MRN:

Administration Date From: Administration Date To:

IC No/Other Identification:

Advanced Search

Search **3**

Patient MRN	Patient Name	IC No/Other Identification	Order Date/Time	Order Location	Status
HMIRI00270118	YXXX XXXX XXX 4		06/09/2019 09:22	WARD FEMALE MEDICAL	IN PROGRESS
HMIRI00236161	UXXX XXXXX		10/01/2019 12:19	WARD MALE MEDICAL	IN PROGRESS

Figure 3.2-3 Preparation Listing Screen

STEP 3

Click on the button to search for patient

STEP 4

Double click on the selected patient

IV PREPARATION Print Original Prescription X

SXXX XXXXXXXX XX XXXXX XXXXXX Mykad Age 71 Years 08 Months 23 Days Gender Female MRN HSM028583

Address Phone And Email Diagnosis Allergy: No Known Allergies Vital Sign

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

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

Encounter No: 0238 Actual Admission Date: 15/05/2020 Visit Location: WAD 3 Order By: System PhIS Ordered By: Pharmacist CDR

PHARMACY ORDER

Supervised By

PRESCRIPTION Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interact	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, STAT , 1 Days	1 amp	5	0 amp	1 amp	<input type="checkbox"/> Details	0 amp	Remarks	VERIFIED	Drug Info
Drug Interact	Sodium Chloride 0.9% 100mL IV soln	250 mg	2 ml	2.5 mg/ml, EOD , 7 Days	1 bott		0 bott	1 bott	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED (PA)	Drug Info
Drug Interact	Amikacin 250mg/2ml Injection	250 mg	2 ml	2.5 mg/ml, EOD , 7 Days	4 vial		0 vial	4 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED (PA)	Drug Info
Drug Interact	Sodium Chloride 0.9% 100mL IV soln	250 mg	100 ml	2.5 mg/ml, EOD , 7 Days	4 bott		0 bott	4 bott	<input type="checkbox"/> Details	0 bott	Remarks	VERIFIED (PA)	Drug Info

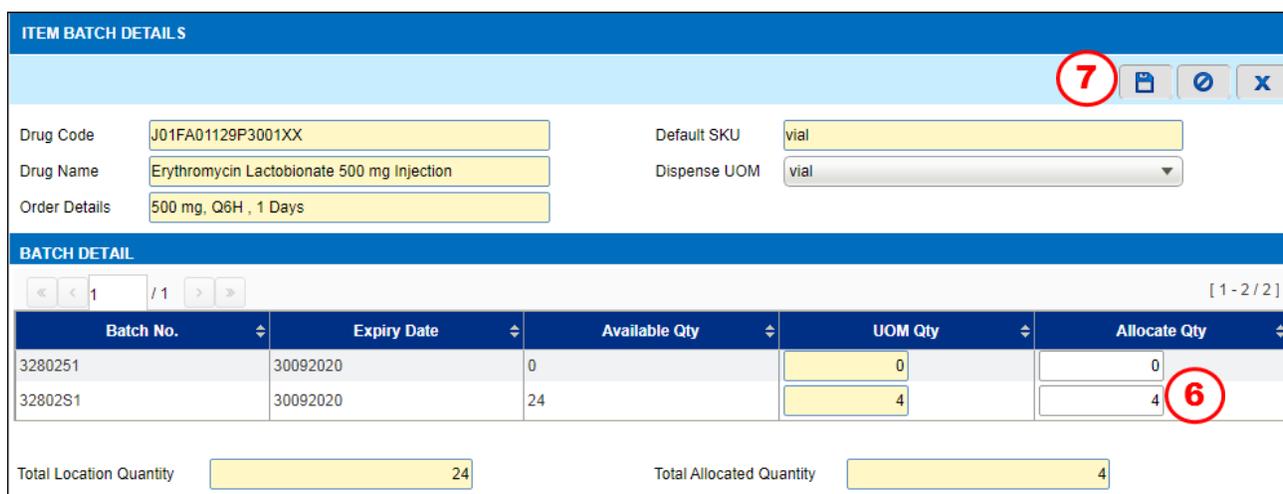
Figure 3.2-4 Prescription Listing Screen

Note

- **Dose Qty** column will be automatically calculated based on drug and diluent volume.
- **Total Order Qty** is the total no. of drugs needed for preparation.
- **No of Dose** is no of dose(s) to be prepared.

STEP 5

Click on **Prepare Qty** “0” hyperlink to perform the allocation from displayed window as show in Figure 3.2-5



ITEM BATCH DETAILS

Drug Code: J01FA01129P3001XX
 Drug Name: Erythromycin Lactobionate 500 mg Injection
 Order Details: 500 mg, Q6H , 1 Days

Default SKU: vial
 Dispense UOM: vial

BATCH DETAIL

Batch No.	Expiry Date	Available Qty	UOM Qty	Allocate Qty
3280251	30092020	0	0	0
32802S1	30092020	24	4	4

Total Location Quantity: 24
 Total Allocated Quantity: 4

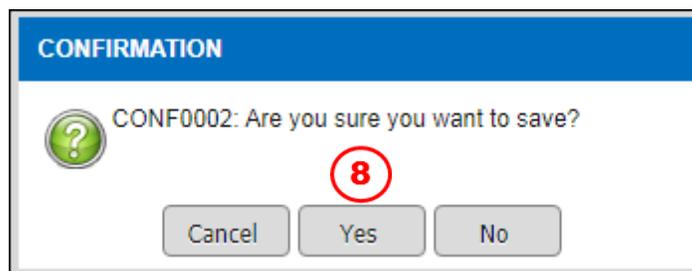
Figure 3.2-5 Allocation Screen

STEP 6

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

STEP 7

Click on the  button to proceed with allocation



CONFIRMATION

CONF0002: Are you sure you want to save?

Buttons: Cancel, Yes, No

Figure 3.2-6 Preparation Screen

STEP 8

Click on the  button to save and close the window

STEP 9

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

IV PREPARATION

Print Original Prescription X

	SXXX XXXXXXXX XX XXXXX XXXXXX	Mykad [REDACTED]	Age 71 Years 08 Months 23 Days	Gender Female	MRN HSM028583
Address		Phone And Email	Diagnosis	Allergy: No Known Allergies	
Height <input type="text"/> cm		Weight <input type="text"/> kg	BMI/BSA 0/0 m ²	Update (Last Updated :) Nationality : Warganegara	

Demographic | Medication Profile | Pharmacist Notes | Monitoring Parameter | Counseling History | Other Appointment | Outbreak Patient |

Encounter No: 0238 Actual Admission Date: 15/05/2020 Visit Location: WAD 3 Order By: System PhIS Ordered By: Pharmacist CDR

PHARMACY ORDER

Supervised By

PRESCRIPTION

Prepare Worksheet Label

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interact	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, STAT , 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	0 bott	0 bott				
Drug Interact	Amikacin 250mg/2ml Injection	250 mg	2 ml	2.5 mg/ml, EOD , 7 Days	4 vial	3	0 vial	4 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED (PA)	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		4 bott		0 bott	4 bott	0 bott				

Figure 3.2-7 Preparation Listing Screen

Note

After selecting the **Details** checkbox a pop-up window will appear as show in Figure 3.2.8.

PREPARATION DETAILS

12 Save Close X

Storage 10 "Refrigerate (2 - 8 °C)" Below 0 °C

"Room Temperature (< 25 °C)" Protect from Light

Reconstitution Fluid 11

Preparation Instruction

Figure 3.2-8 Preparation Details Screen

STEP 10

Select the applicable **Storage** checkboxes
Below/Refrigerate/Protected From Light Or Room Temperature

STEP 11

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

STEP 12

Click on the button to save record

Note

- Storage condition, reconstitution fluid and preparationinstruction will default value as setup in Drug Master (if any).

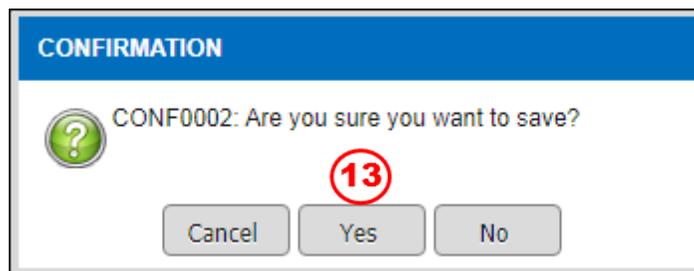


Figure 3.2-9 Preparation Details Screen

STEP 13

Click on  button to confirm saving of preparation details

IV PREPARATION

[Print Original Prescription](#) X

	SXXX XXXXXXXX XX XXXXX XXXXXX	Mykad XXXXXXXXXX	Age 71 Years 08 Months 23 Days	Gender Female	MRN HSM028583
Address	Phone And Email	Diagnosis	Allergy: No Known Allergies		Vital Sign ▼

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

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

Encounter No: 0238 Actual Admission Date: 15/05/2020 Visit Location: WAD 3 Order By: System PhIS Ordered By: Pharmacist CDR

PHARMACY ORDER

Supervised By

PRESCRIPTION

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
▼ Drug Interacts	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, STAT , 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	0 bott					
▼ Drug Interacts	Amikacin 250mg/2ml Injection	250 mg	2 ml	2.5 mg/ml, EOD , 7 Days	4 vial	3	0 vial	4 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED (PA)	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		4 bott		4 bott	0 bott					

Figure 3.2-10 Preparation Listing Screen

STEP 14

Click on the  button to view and print

IV WORKSHEET

MINISTRY OF HEALTH
Hospital Miri

Date of preparation : 06/09/2019

Worksheet Id: 19-09-0001

MRN HMIRI00270118
ID No 760905136124
Order Location WARD FEMALE MEDICAL
Order Date 06/09/2019

Name YXXX XXXX XXX
Rx. No. FMW0000954203
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	Erythromycin 1 mg/ml	Erythromycin Lactobionate 500 mg Injection	500 mg	20 ml	4	80 ml	4 vial	32802S1	30/09/2020	"Refrigerate (2 - 8 °C)", Protect from Light
			20ml WFI								
			Sodium Chloride 0.9% 500mL IV soln								

Instruction: Please Refer to SOP

Reference:

Worksheet generated by	Worksheet & label checked	Prepared by	Final Product Checked by	Supervised by
_____	_____	_____	_____	_____
Date: 06/09/2019	Date: _____	Date: _____	Date: _____	Date: 06/09/2019

Figure 3.2-11 Worksheet

IV PREPARATION

[Print Original Prescription](#)

	SXXX XXXXXXXX XX XXXXX XXXXXX	Mykad _____	Age 71 Years 08 Months 23 Days	Gender Female	MRN HSM028583
	Address _____	Phone And Email _____	Diagnosis _____	Allergy: No Known Allergies	Vital Sign _____
Upload Photo	Height _____ cm	Weight _____ kg	BMI/BSA 0/0 m ²	Update (Last Updated :) Nationality : Warganegara	

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

Encounter No: 0238 Actual Admission Date: 15/05/2020 Visit Location: WAD 3 Order By: System PhIS Ordered By: Pharmacist CDR

PHARMACY ORDER

Supervised By _____

PRESCRIPTION

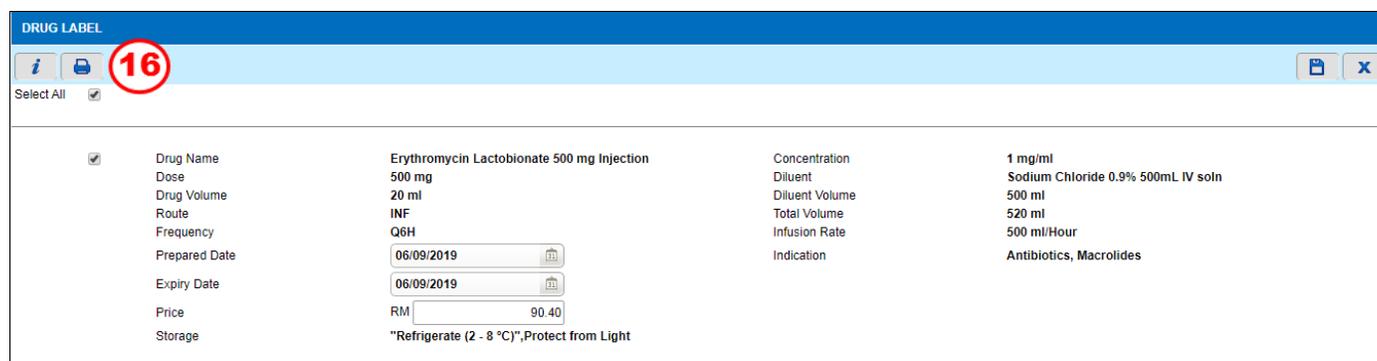
[Prepare](#) [Worksheet](#) [Label](#)

	Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
▼	Drug Interact	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, STAT , 1 Days	1 amp	1	1 amp	1 amp	☑ Details	0 amp	Remarks	VERIFIED	Drug Info
		Sodium Chloride 0.9% 100mL IV soln		100 ml		1 bott		1 bott	0 bott					
▼	Drug Interact	Amikacin 250mg/2ml Injection	250 mg	2 ml	2.5 mg/ml, EOD , 7 Days	4 vial	3	0 vial	4 vial	☐ Details	0 vial	▶ Remarks	VERIFIED (PA)	Drug Info
		Sodium Chloride 0.9% 100mL IV soln		100 ml		4 bott		4 bott	0 bott					

Figure 3.2-12 Preparation Listing Screen

STEP 15

Click on  button and a window will display as show in Figure 3.2-13



DRUG LABEL

Select All

<input checked="" type="checkbox"/>	Drug Name	Erythromycin Lactobionate 500 mg Injection	Concentration	1 mg/ml
	Dose	500 mg	Diluent	Sodium Chloride 0.9% 500mL IV soln
	Drug Volume	20 ml	Diluent Volume	500 ml
	Route	INF	Total Volume	520 ml
	Frequency	Q6H	Infusion Rate	500 ml/Hour
	Prepared Date	06/09/2019	Indication	Antibiotics, Macrolides
	Expiry Date	06/09/2019		
	Price	RM 90.40		
	Storage	"Refrigerate (2 - 8 °C)", Protect from Light		

Figure 3.2-13 Drug label

STEP 16

Click on the  button to print drug label will display as shown in Figure 3.2-14

IV Admixture Pharmacy	
Hospital Pakar Sultanah Fatimah, Muar	
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 3.2-14 Label

Note

Select All checkbox allow users to print all drug labels in the selected prescription.

IV PREPARATION

Print Original Prescription

	SXXX XXXXXXXX XX XXXXX XXXXXX	Mykad [REDACTED]	Age 71 Years 08 Months 23 Days	Gender Female	MRN HSM028583
Address	Phone And Email	Diagnosis	Allergy: No Known Allergies		
Height <input type="text"/> cm Weight <input type="text"/> kg BMI/BSA 0/0 m ² <input type="button" value="Update"/> (Last Updated :) Nationality : Warganegara					

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

Encounter No: 0238 Actual Admission Date: 15/05/2020 Visit Location: WAD 3 Order By: System PhIS Ordered By: Pharmacist CDR

PHARMACY ORDER

Supervised By 17

PRESCRIPTION

Alert	Drug/Diluent Name	Dose	Dose Qty	Order Details	Total Order Qty	No. of Dose	Prepare Qty	Bal Qty	Prepare Admixture	Prev Disp Qty	Remarks	Status	Drug Info
Drug Interact	Gentamicin 80mg/2ml Injection	80 mg	2 ml	0.8 mg/ml, STAT , 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	0 bott					
Drug Interact	Amikacin 250mg/2ml Injection	250 mg	2 ml	2.5 mg/ml, EOD , 7 Days	4 vial	3	0 vial	4 vial	<input type="checkbox"/> Details	0 vial	Remarks	VERIFIED (PA)	Drug Info
	Sodium Chloride 0.9% 100mL IV soln		100 ml		4 bott		4 bott	0 bott					

Figure 3.2-15 Preparation Screen

STEP 17

Click on the button to proceed with preparation

Note

After allocating the quantity, **Prepare Qty** column will retrieve the reserved quantity from item batch.

CONFIRMATION

CONF0060: Do you want to proceed with the preparation?

18

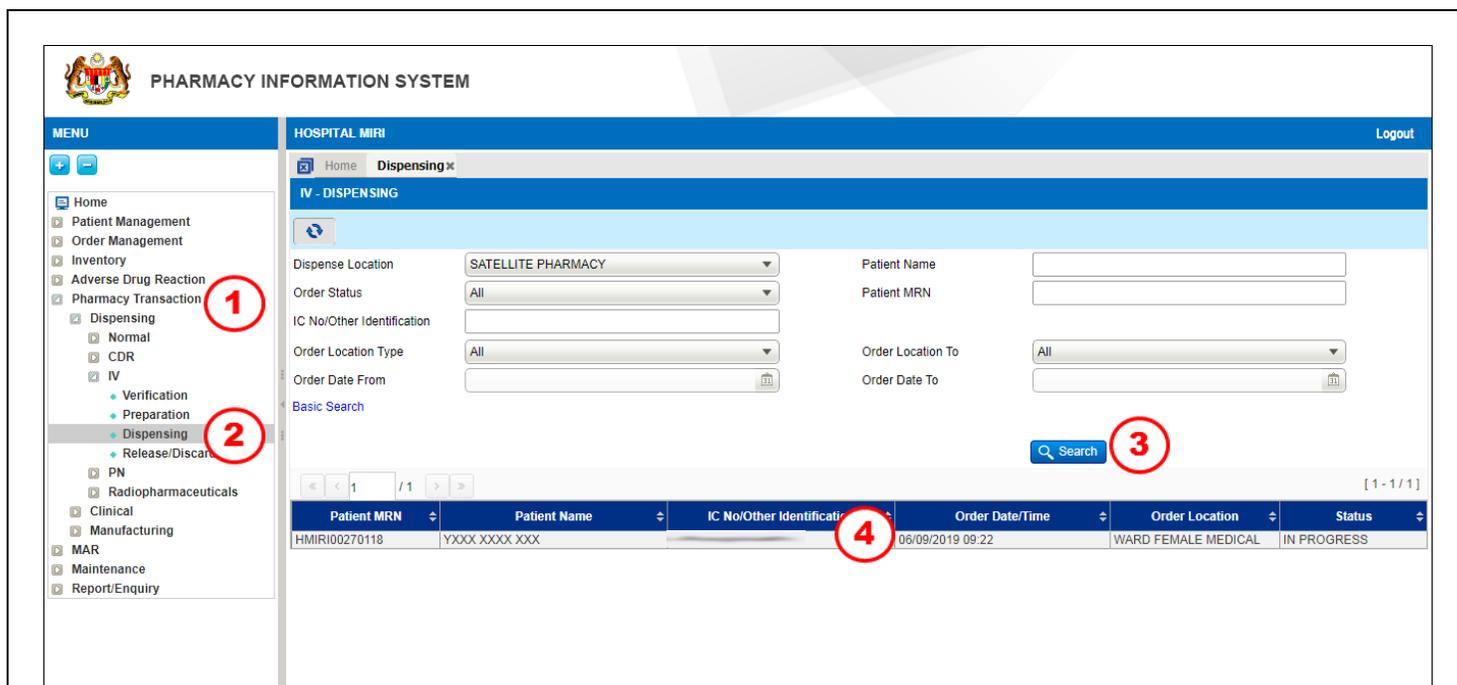
Figure 3.2-16 Preparation Screen

STEP 18

Click on the button to proceed with dispensing

3.3 IV Admixture Dispensing

This function allows user to record dispensing, to hold, resume and reprint drug label



PHARMACY INFORMATION SYSTEM

HOSPITAL MIRI Logout

Home **Dispensing**

IV - DISPENSING

Dispense Location: SATELLITE PHARMACY
 Order Status: All
 IC No/Other Identification:
 Order Location Type: All
 Order Date From:

Patient Name:
 Patient MRN:
 Order Location To: All
 Order Date To:

Basic Search Search

Patient MRN	Patient Name	IC No/Other Identification	Order Date/Time	Order Location	Status
HMIRI00270118	YXXX XXXX XXX		06/09/2019 09:22	WARD FEMALE MEDICAL	IN PROGRESS

Figure 3.3-1 Dispensing Listing Screen

STEP 1

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

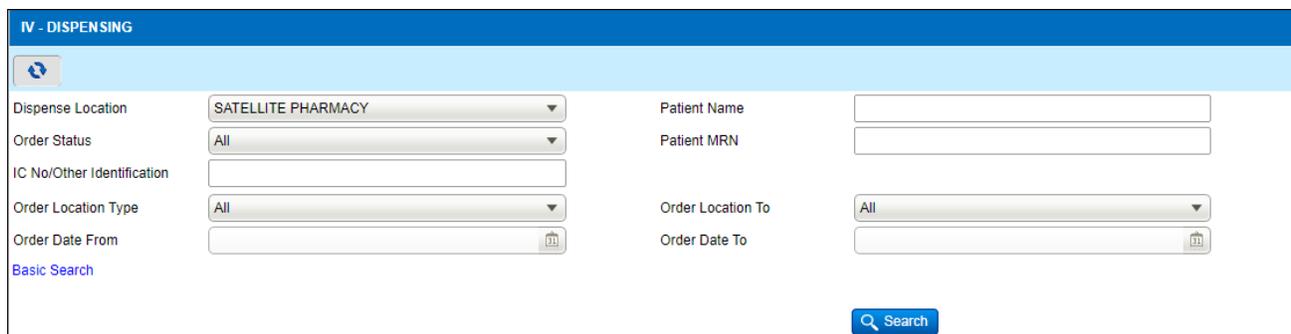
STEP 2

Click on 'Dispensing' sub-menu

Note

Various search criteria are provided as below :

- a) Basic search
- b) Advance search



IV - DISPENSING

Dispense Location: SATELLITE PHARMACY
 Order Status: All
 IC No/Other Identification:
 Order Location Type: All
 Order Date From:

Patient Name:
 Patient MRN:
 Order Location To: All
 Order Date To:

Basic Search Search

Figure 3.3-2 Dispensing Listing Screen

Basic Search			
No	Field	Description	Remark
a)	Dispense Location	Dispensing location. (It will list down all active locations)	Able to filter and search patient name by dispensing location
b)	Order Status	All New Orders Outsourced Orders	Able to filter status prescription by order status
c)	Patient Name	Patient Name	Allow to search by full or partial patient name
d)	Patient MRN	Patient Medical Record Number	Search option: • Type the MRN either in full or partially: <i>Example : HPSF00001234 or "1234"</i>
e)	IC No/Other Identification	IC No/Other Identification	Able to search patient based on MYKAD/MYKID and others identification.
Advance Search			
f)	Order Location Type	- Order location type (It will list down all active location types)	Able to filter and search patient name by order location type
g)	Order Date from	Order confirmed date	Allow to search by start date of order created
h)	Order Location To	It will list down all active location	Able to filter and search patient name by order location
i)	Order Date To	Order confirmed date	Allow to search by selected duration of order created

Table 3.3-1

Note

Search results of patient record list will display:

- Patient MRN
- Patient Name
- IC No/Other Identification
- Order Date
- Order Location
- Status

STEP 3

Click on the  button to search for patient

STEP 4

Double click on the selected patient

IV DISPENSING

 <input type="button" value="Upload Photo"/>	EXXXX XXXX XXXX XXXX Address	Mykad € Phone And Email	Age 59 Years 11 Months 12 Days Diagnosis	Gender Male Allergy: No Known Allergies	MRN HSM00240680 Vital Sign
--	---------------------------------	----------------------------	---	--	-------------------------------

Height: cm Weight: kg BMI/BSA: 24 / 1.74 m² (Last Updated: 24/06/2020) Nationality: Warganegara

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

Encounter No: 0410 Actual Admission Date: 09/07/2020 Visit Location: WAD 4 Order By: Ordered By: Pharmacist CDR

PHARMACY ORDER

Dispensed To: * Dispensed Date/Time: * Remarks:
 Dispensed At: * Collected By:
 Supervised By:
5

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
<input type="button" value="Drug Interact"/>	Metoclopramide HCl 10mg/2ml Injection Dextrose 5% 500ml IV soln	10 mg 30 ml	2 ml 30 ml	0.33 mg/ml, STAT , 1 Days	1 amp 1 bott	1 1	1 amp 0 bott	1 amp 1 bott	<input type="checkbox"/> <input type="button" value="Details"/>	0 amp 0 bott	Remarks	PREPARED	<input type="button" value="Drug Info"/>

Figure 3.3-3 Dispensing Screen

STEP 5

Click on the  button and system will open a new window as show in Figure 3.3-5

CONFIRMATION

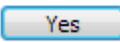


CONF0064: Do you want to dispense now?

6

Figure 3.3-5 Conformation Screen

STEP 6

Click on the  button to dispense as Figure 3.3-5

Note

User may record the collectors name. Example the nurse in charge on the day.

3.4 IV Discard Batch

This function is used by the pharmacist to discard the IV admixture that has been prepared at the preparation stages. The drug and diluents quantity will be deducted from the inventory.

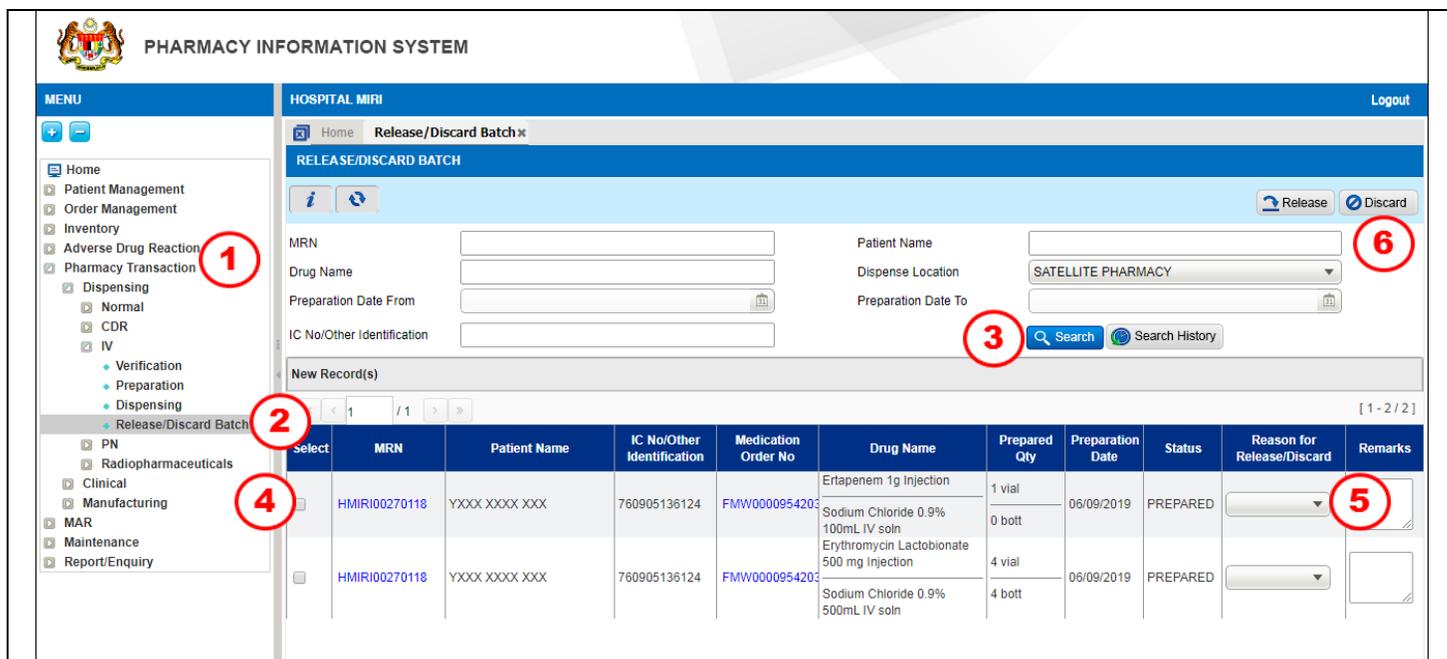


Figure 3.4-1 Discard Batch screen

STEP 1

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

STEP 2

Click on 'Release and Discard Batch' sub-menu

Note

Various search criteria is provided as below

No	Field	Description	Remark
a	MRN	Patient Medical Record Number	Search option: • Type the MRN either in full or partially: <i>Example : HPSF00001234 or "1234"</i>
b	Patient Name	Patient Name	Allow to search by t full or partial patient name
c	Drug Name	Drug Name	Generic name
d	Dispense Location	Dispensing location. (It will list down all active locations)	Able to filter and search patient name by dispensing location
e	Preparation Date From	Preparation Date From	Able to search date before
f	Preparation Date To	Preparation Date To	Able to search current date
g	IC No/Other Identification	IC No/Other Identification	Able to search patient based on MYKAD/MYKID and others identification.

Table 3.4-1

Note

Search results of patient record list will display:

- Select
- MRN
- Patient Name
- IC No/Other Identification
- Drug Name
- Medication Order No
- Preparation Date
- Prepared Qty
- Status
- Reason For Discard

STEP 3

Click on the  button

STEP 4

Select checkbox to Release/discard from the listed drug

STEP 5

Select Reason for Release/Discard from the dropdown box options:

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

STEP 6

Click on the Release or Discard button to proceed with release/discard

Note

- Once the drug is already discard, it will display back in the Preparation screen for re-allocation of a new batch quantity.
- Enter **remarks** if applicable (optional field)

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>Radiopharmaceuticals</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		