



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

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## **Full Based User Manual Order Management - Medication Order**

<b>Version</b>	<b>: 10<sup>th</sup> EDITION</b>
<b>Document ID</b>	<b>: FB_U. MANUAL_MEDICATION ORDER_MOBILE</b>



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

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## 1. 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 would 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 IV
7. Manufacturing of Cytotoxic Drug Reconstitution, Parenteral Nutrition, 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 Order Management module and its key features and functionalities. The primary objective is to help guide user through the process of completing PhIS application process.

User will understand the following activities in details:

- Medication Order
- Manage Order
- Order Authorisation
- Order Endorsement

### 1.3 Organized Sections





These are the sections within this document:

- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : Medication Order
- Section 4 : Acronyms
- Section 5 : Links to Clinical Modules



## 2. Application Standard Features

### 2.1 PhIS Legend

Module Legend					
<b>Update Status</b>	Update Records		Stop Drug	<b>Close</b>	close record
<b>Draft</b>	Draft Records		Add to favorite		Edit records
<b>Renew</b>	Renew order	<b>Confirm</b>	Confirm Order		View Order

## 2.2 Login to PhIS Mobile

To login into the system, perform the steps below:



The screenshot shows the PhIS login page with a blue background. At the top center is the Malaysian coat of arms. Below it, the text reads 'MINISTRY OF HEALTH, MALAYSIA' and 'PHARMACY INFORMATION SYSTEM'. There are two input fields: 'Username' (labeled with a red circle '1') and 'Password' (labeled with a red circle '2'). Below these fields are two buttons: 'Medication Order' and 'MAR Module'. A large green 'Submit' button is centered below the module buttons. At the bottom left, there is a link that says 'Forgot your password'. On the right side of the page, there is a faint image of a green pill bottle.

Figure 2.2-1 PhIS Login Page

### STEP 1

Key-in username in the **Username** field

### STEP 2

Key-in password in the **Password** field

### Note

*If user entered wrong username or password, alert message will be displayed as shown in Figure 2.2-2.*

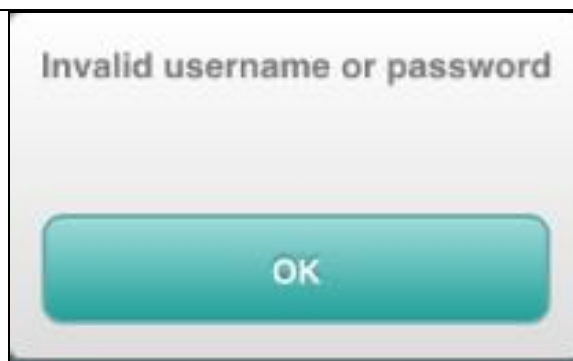


Figure 2.2-2 User does not exist

**Note**

User will be tied to the **Location** based on the access right. User will need to refer to the facility's System Administrator for any update needed.



Figure 2.2-3 Wrong password entered

**STEP 3**

Tap on the submit button to log-in to the application

## 2.3 PhIS Mobile Application Home Page Overview

User will be navigated to the PhIS home page upon successful login.



Figure 2.3-1 PhIS Home Page

- a) **Outpatient**  
All the clinic outpatient patient
- b) **Inpatient**  
All warded inpatient
- c) **Emergency**  
Patient under Emergency and Trauma visit
- d) **Day Care**  
All day care visit patient
- e) **My Task List**  
Active task(s) that require action/ follow-up will be displayed.  
e.g.: Pending for Authorisation and Endorsement
- f) **Logout**  
Log out from the system

## 3.0 Order Management

### Overview

The Order Management 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 authorized personnel only and 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 specialist, Medical Officer (MO), and Housemen

### Functional Diagram

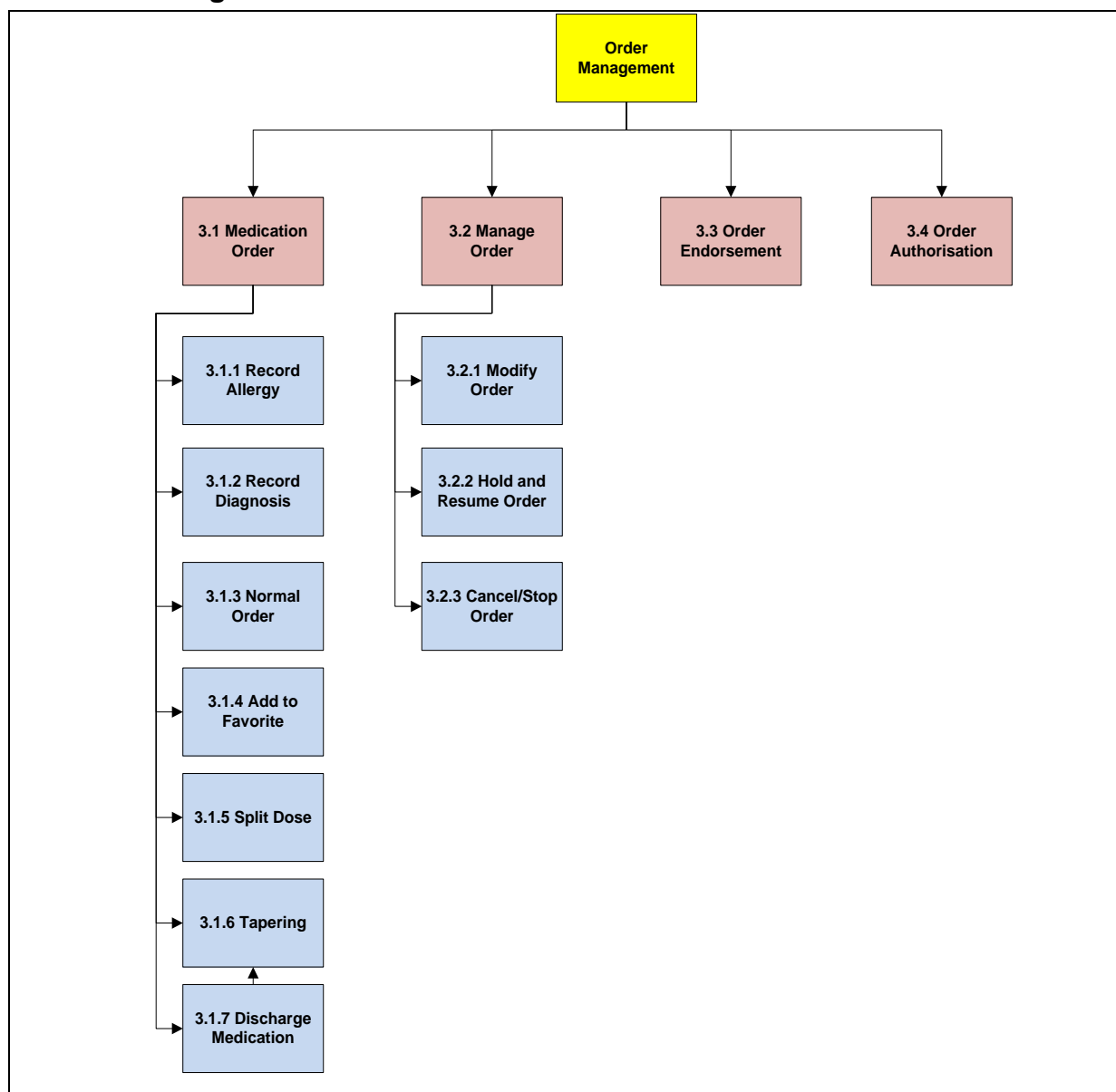


Figure 3.0-1



## Functional Description

Medication Order comprises of five (4) main functions:

- **Normal Order**  
To prescribe normal order
- **Manage Order**  
To monitor patient's prescription by modifying order, cancel/stop order and tapering up/down.
- **Order Endorsement**  
The prescriber to endorse the intervention made by a Pharmacist
- **Order Authorization**  
To approve list A/ A\*/ A/KK drug that requires authorization

### 3.1 Medication Order

Medication order is used for prescribing medicine for Inpatient and Outpatient, Emergency and Day Care departments applicable to selected facility setup.

#### 3.1.1 Record Allergy



Figure 3.1.1-1 Order Screen Listing Page

#### STEP 1

Tap on the **Inpatient** symbol

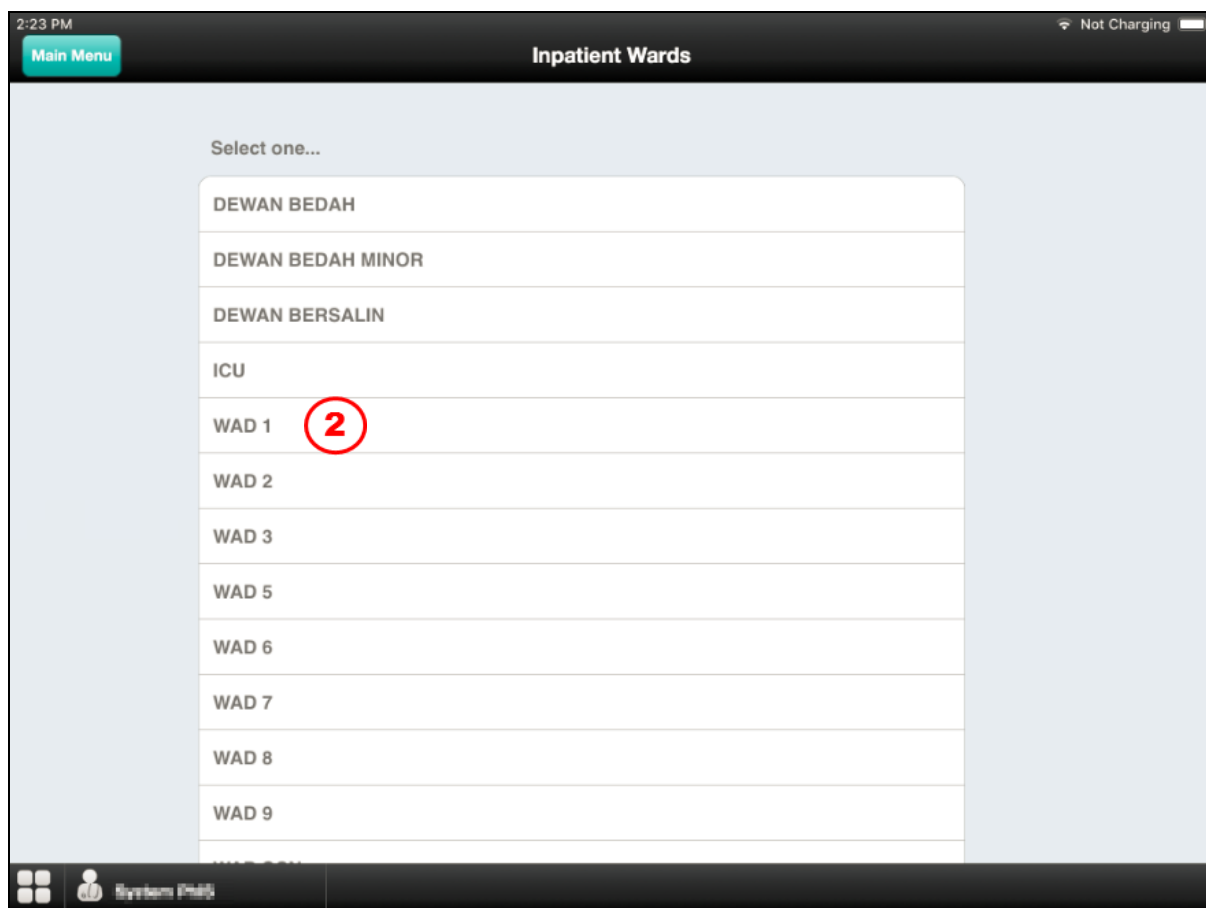


Figure 3.1.1-2 Location Screen Listing Page

**STEP 2**

Tap on the selected location e.g Dewan Bedah 1, WAD 1 to select patient



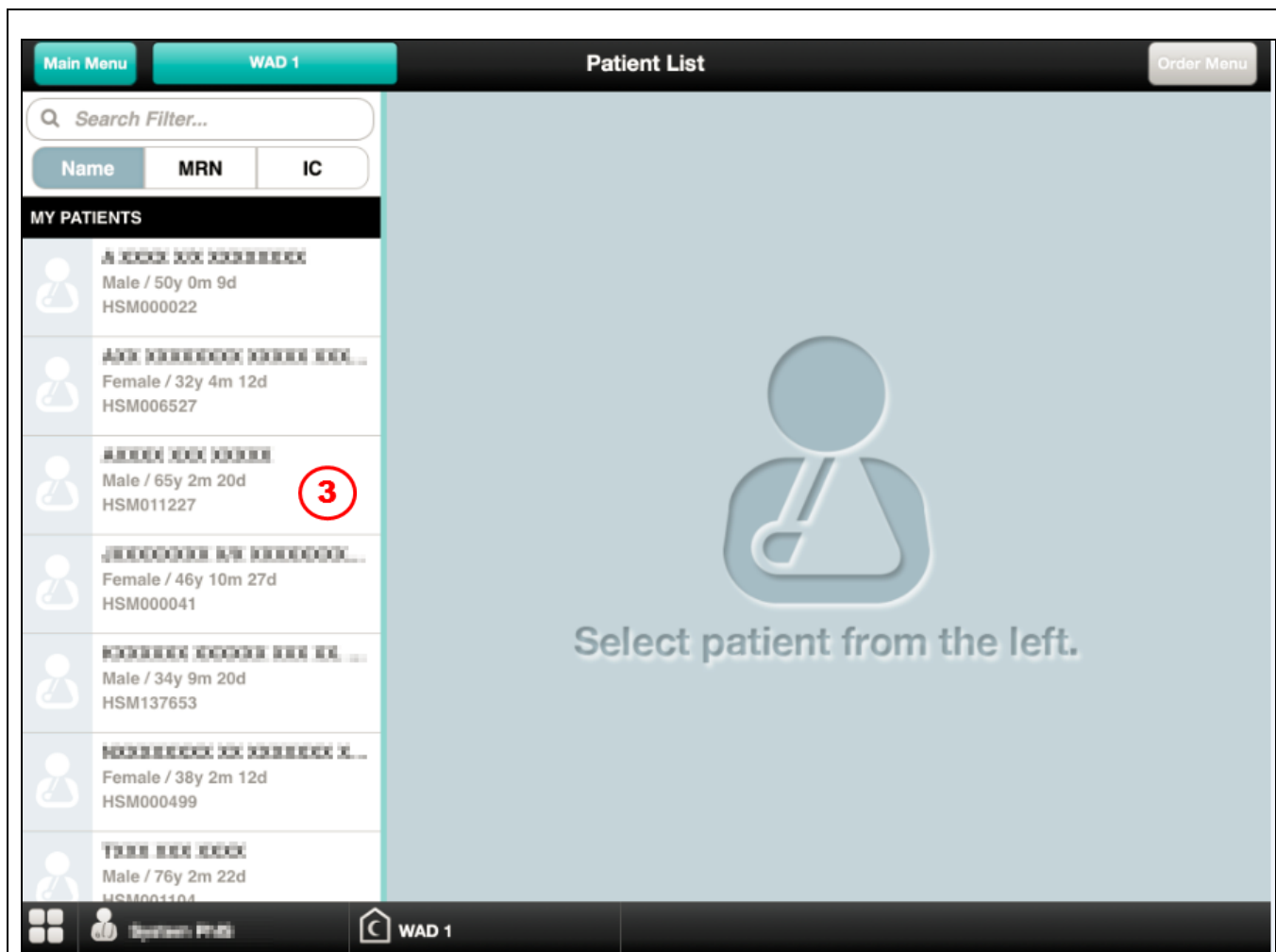


Figure 3.1.1-3 Patient Listing Page

- Various search criteria are provided as below:

No	Field	Description	Remark
A	Name	Patient Name	Allow to search by patient full name or partial
B	MRN	Patient Medical Record Number	Search option: <ul style="list-style-type: none"> <li>Type the MRN either full or partial: Example: HPSF00001234 or "1234"</li> </ul>
C	IC	Patient visit location	Able to filter and search patient by visit location and prescriber's location.

Table 3.1.1-3

### STEP 3

Tap on selected patient name

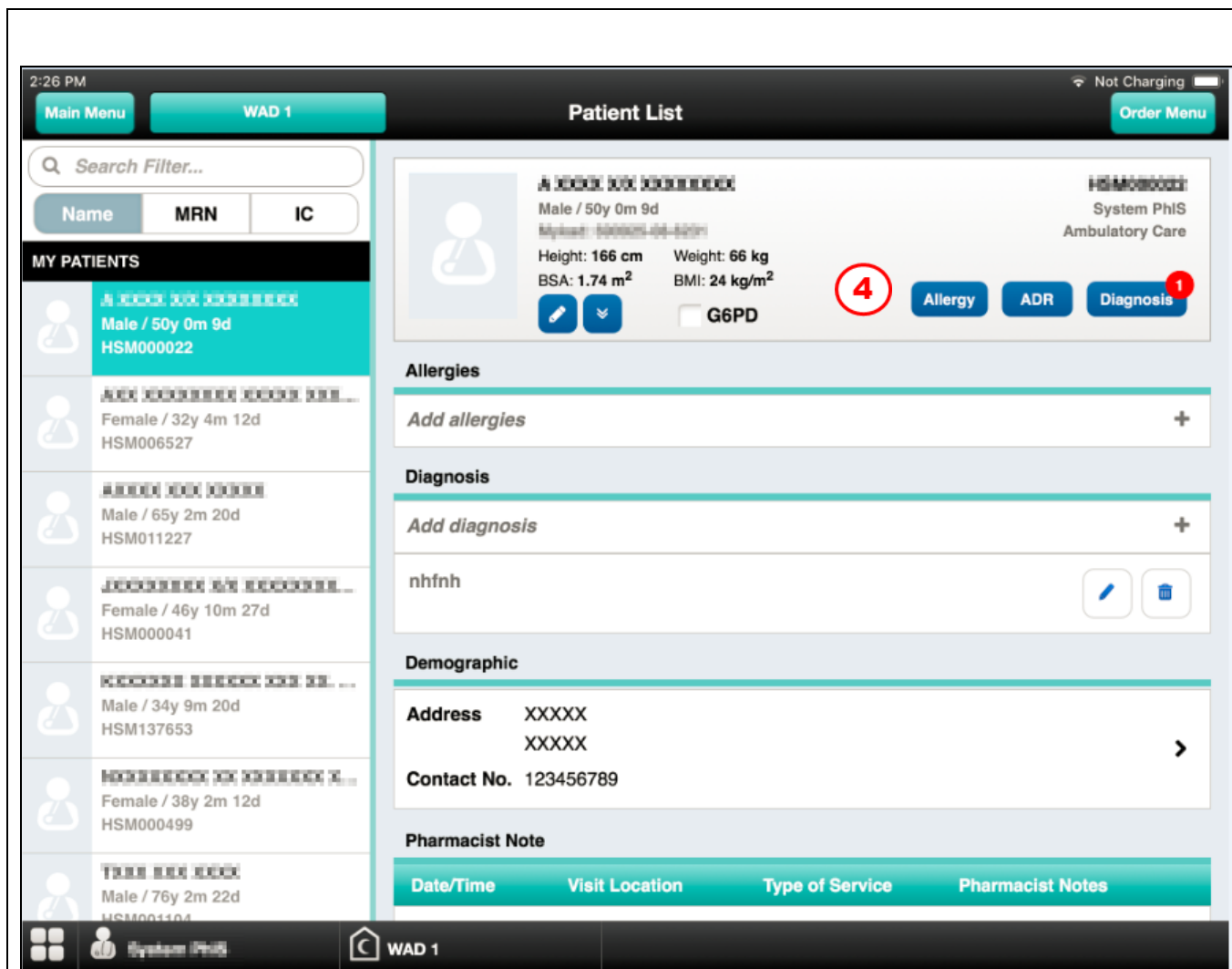


Figure 3.1.1-4 Patient Listing Page

**Note**

Search result of patient record list will be displayed:

- Allergies
- Diagnosis
- Demographic
- Pharmacist Note
- ADR Report

**STEP 4**

Tap on the  button to create new allergies

**Note**

Allergies also can be created from **Add Allergies** section by click on the  button



Figure 3.1.1-5 Patient Listing Page

**Note**

By default for all patient system will checked on **No Known allergy** ☒ box if the patient does not have any allergy.

**STEP 5**

Tap on the **Add Allergy** button and new screen will displayed as per Figure 3.1.1-6

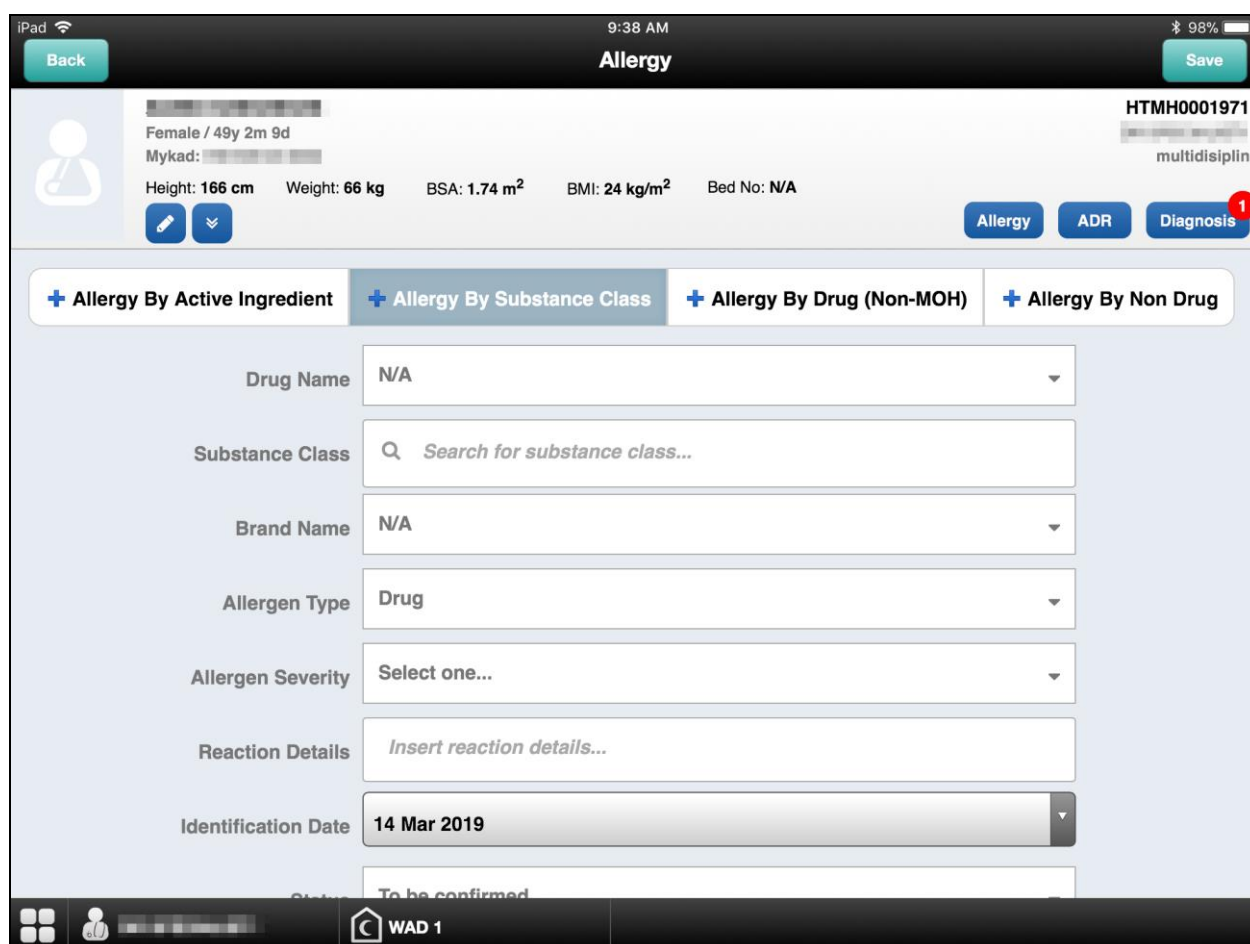


Figure 3.1.1-6 Allergy Screen

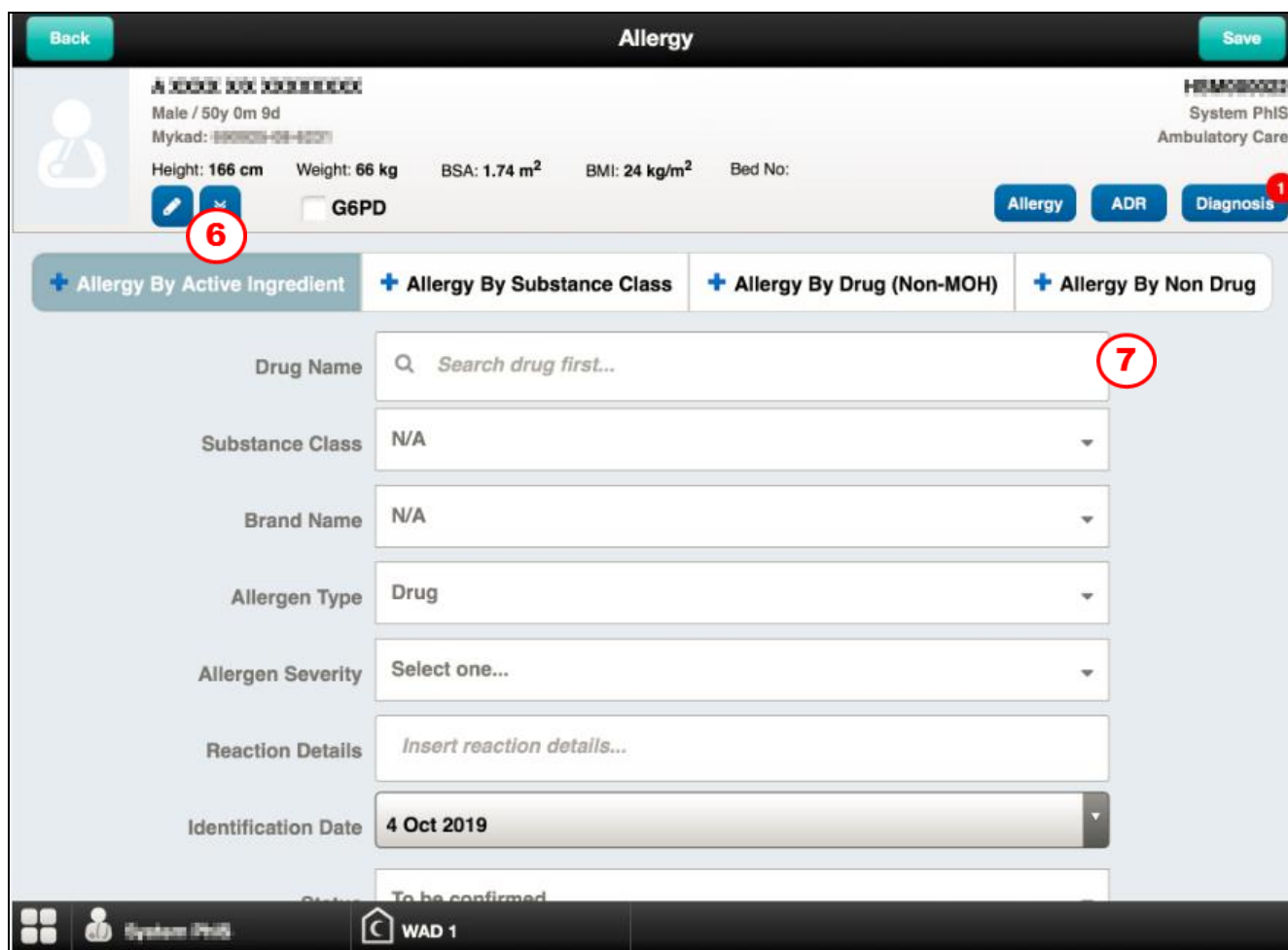
**Note**

- By default **+ Allergy By Substance Class** screen will be displayed
- Tap on the selected tab to declare Patient Allergy based on below selection:

- a) **+ Allergy By Active Ingredient**
  - To record allergy by active ingredient.
  - Active Ingredient will be retrieve from master setup.
  - Tap the “Allergy By Active Ingredient” and Search the active ingredient
- b) **+ Allergy By Substance Class**
  - To record allergy by substance class
  - Drug will be displayed based on the substance class that selected
- c) **+ Allergy By Drug (Non-MOH)**
  - To record allergy of drug not in MOH list.
  - Drug which not define in MOH database.
  - Tap on the “Allergy By Substance Class” and enter drug name.
- d) **+ Allergy By Non Drug**
  - To record allergy of non drug.
  - Tap on the “Allergy By Non Drug” and enter drug name.

## STEP 6

Tap on the **+ Allergy By Active Ingredient** tab and enter drug name to view list of drug



**Back** **Allergy** **Save**

Male / 50y 0m 9d  
Mykad: [REDACTED]

Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No: [REDACTED]

**6** **G6PD** **Allergy** **ADR** **Diagnosis** **1**

**+ Allergy By Active Ingredient** **+ Allergy By Substance Class** **+ Allergy By Drug (Non-MOH)** **+ Allergy By Non Drug**

Drug Name  **7**

Substance Class

Brand Name

Allergen Type

Allergen Severity

Reaction Details

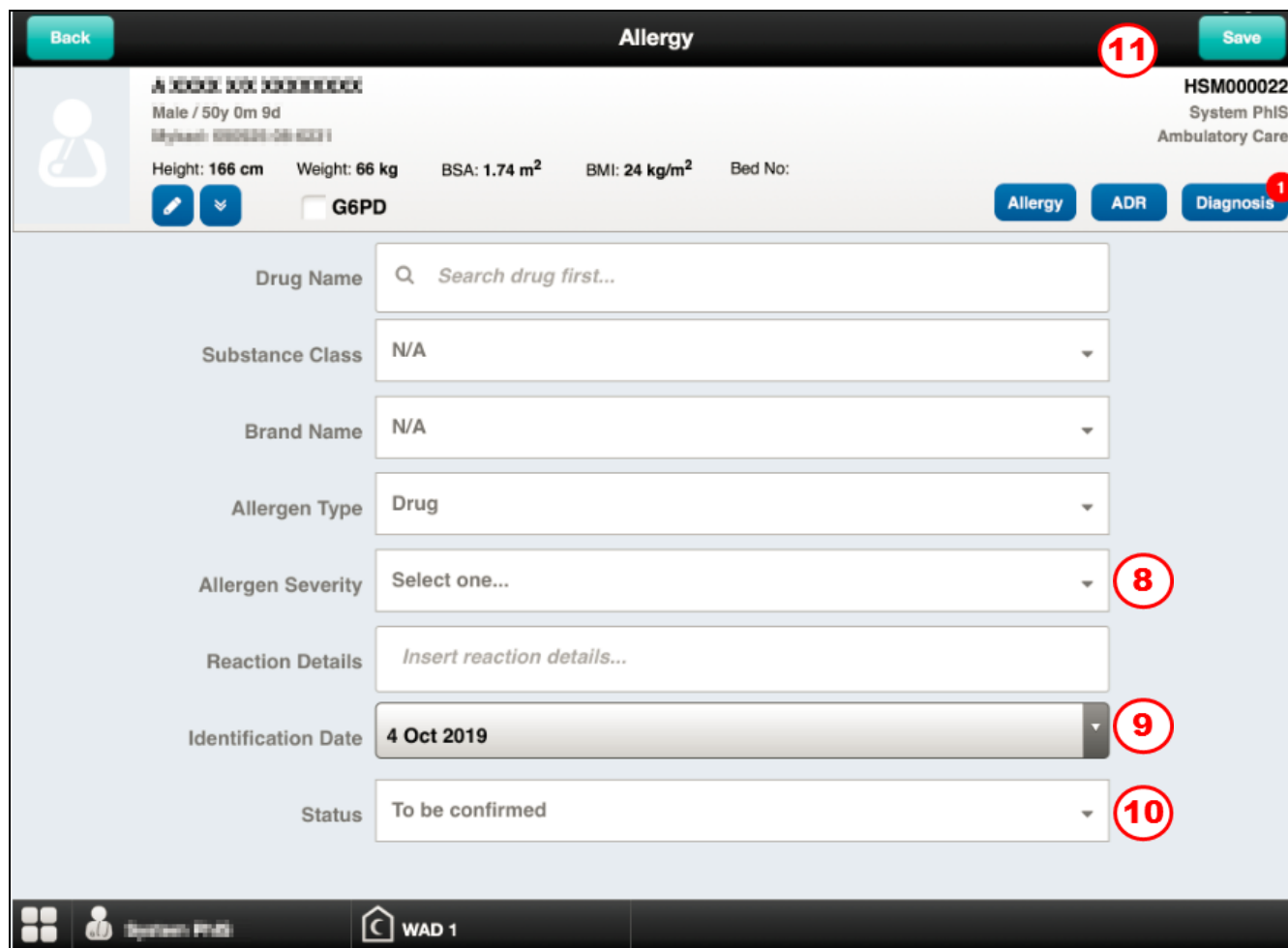
Identification Date

**WAD 1**

Figure 3.1.1-7 Allergy Detail Screen

## STEP 7

Tap on the selected active ingredient



**Back** **Allergy** **11** **Save**

**HSM000022**  
System PhIS  
Ambulatory Care

Male / 50y 0m 9d  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:

**G6PD** **Allergy** **ADR** **Diagnosis** **1**

Drug Name

Substance Class

Brand Name

Allergen Type

Allergen Severity  **8**

Reaction Details

Identification Date  **9**

Status  **10**

**System PhIS** **WAD 1**

Figure 3.1.1-8 Allergy Detail Screen

## STEP 8

Select **Allergy Severity** from drop down box :

- Mild
- Moderate
- Severe
- Unknown

## STEP 9

Select **Identification Date** of allergy

## STEP 10

Select **Status** from drop down box:

- Confirmed
- Resolved
- Suspected
- To be confirmed

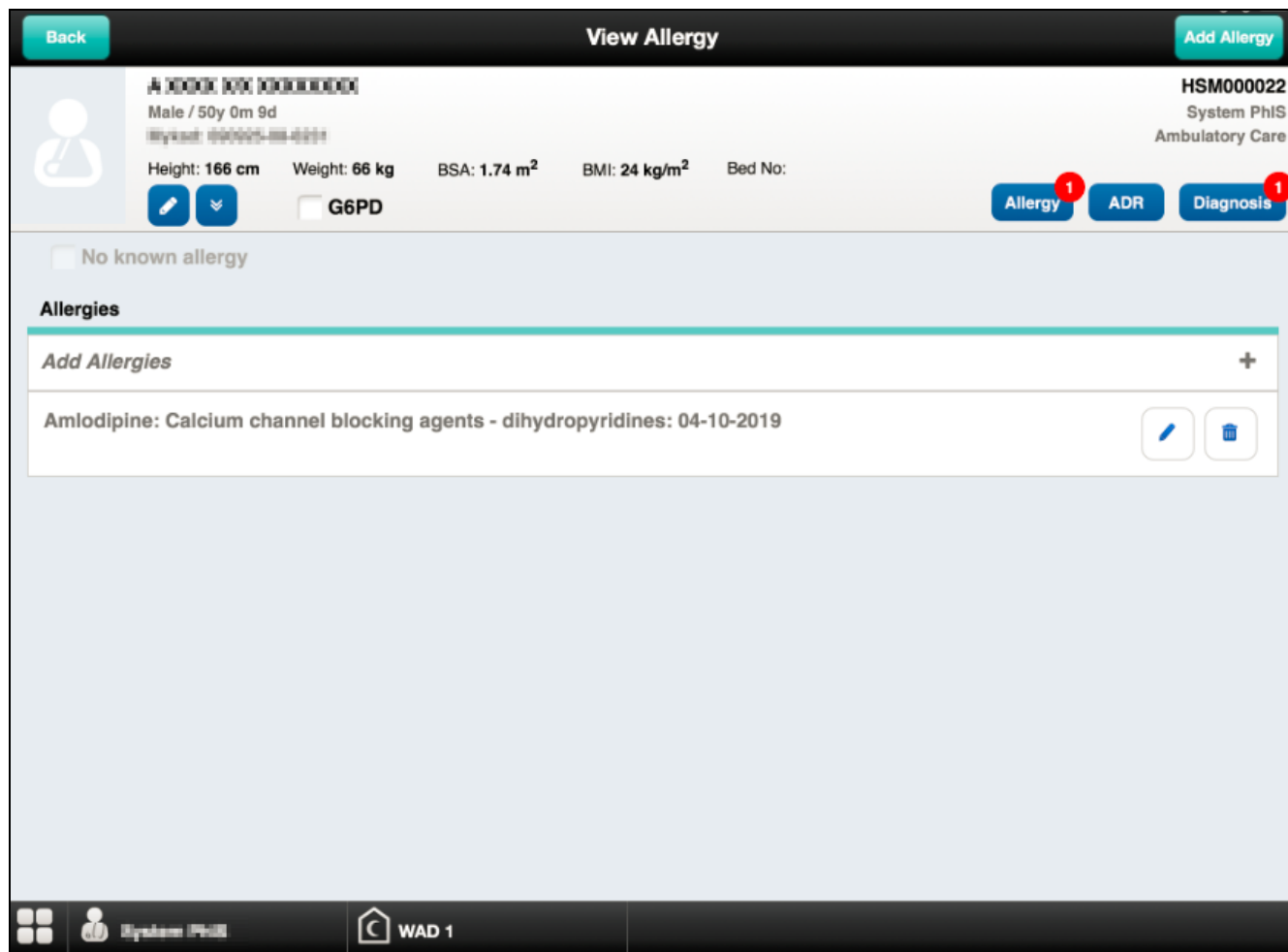
## Note

Below are the optional fields to be entered:

- a) Brand name
- b) Allergen Type
- c) Allergy Severity
- d) Allergen Description

## STEP 11

Tap on the **Save** button to confirm the recorded allergy



**Back** **View Allergy** **Add Allergy**

**HSM000022**  
System PhIS  
Ambulatory Care

Male / 50y 0m 9d  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
G6PD

**Allergy** **ADR** **Diagnosis**

☐ No known allergy

**Allergies**

**Add Allergies** +

Amlodipine: Calcium channel blocking agents - dihydropyridines: 04-10-2019

**System PhIS** **WAD 1**

Figure 3.1.1-9 Allergy Detail Screen

### Note

- Allergy will be displayed as per figure3.1.1-9 after save record.

### 3.1.2 Record Diagnosis

This function is used for prescriber to record summary patient's diagnosis. Record patient diagnosis for every visit is a mandatory process in order to prescribe medication.

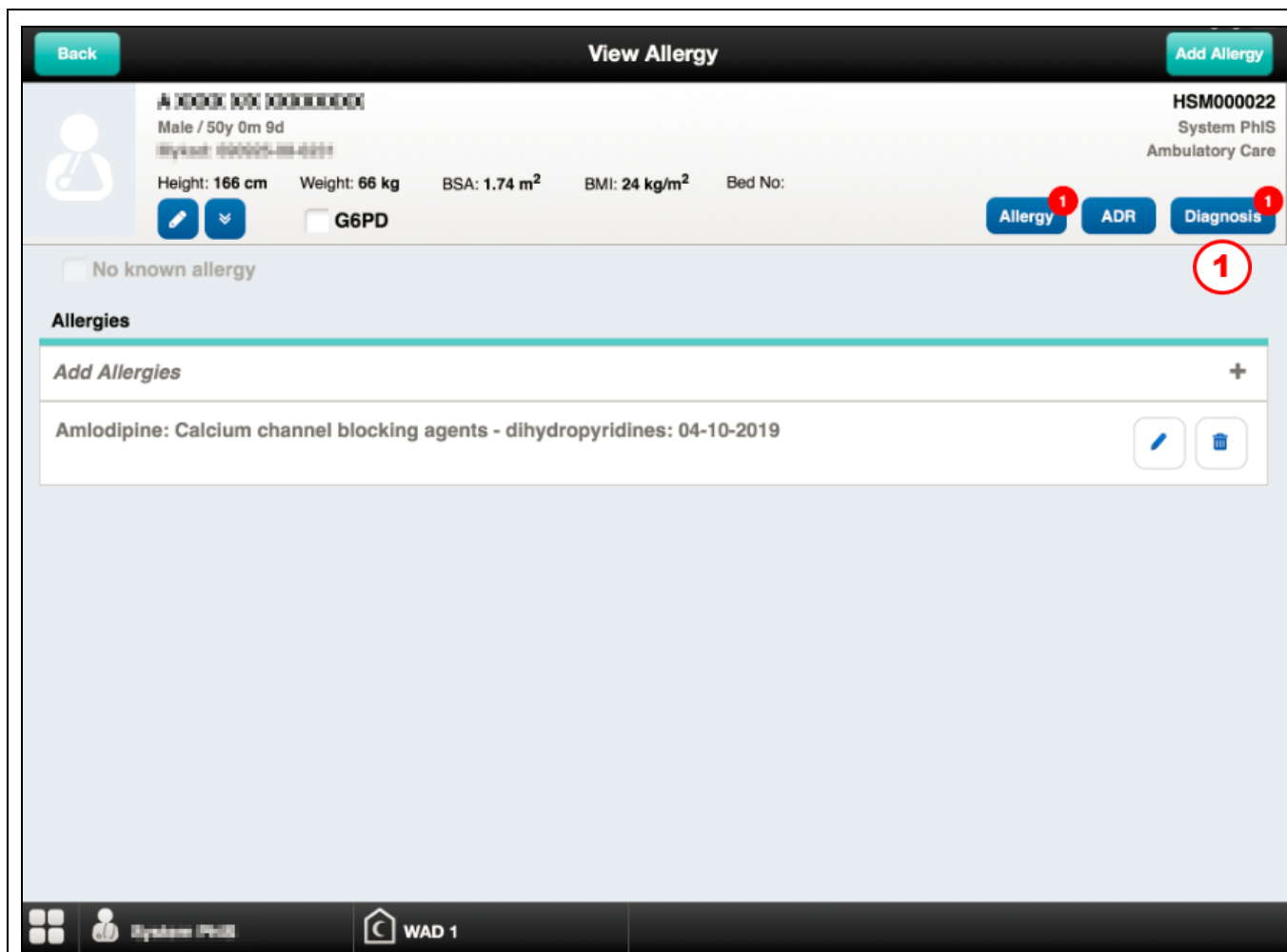
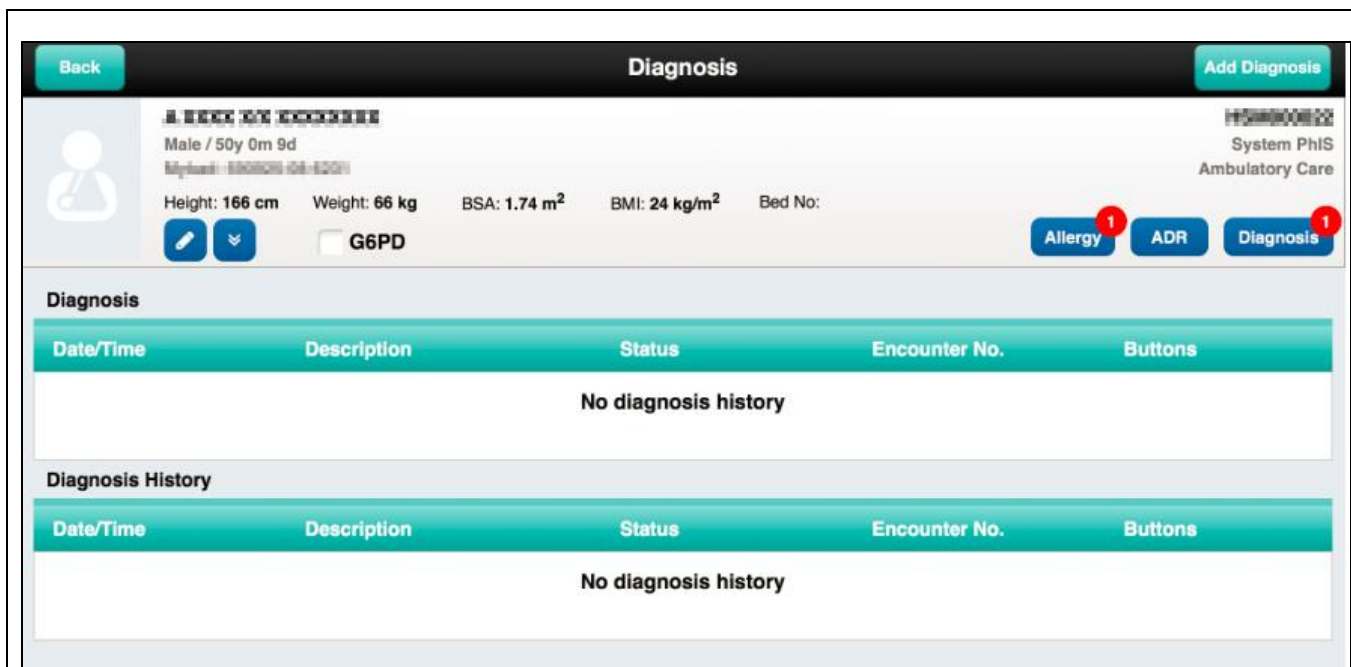


Figure 3.1.2-1 Diagnosis Landing Screen

#### STEP 1

Tap on the **Diagnosis** to record new diagnosis



**Diagnosis**

Male / 50y 0m 9d  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
G6PD

Allergy ADR Diagnosis

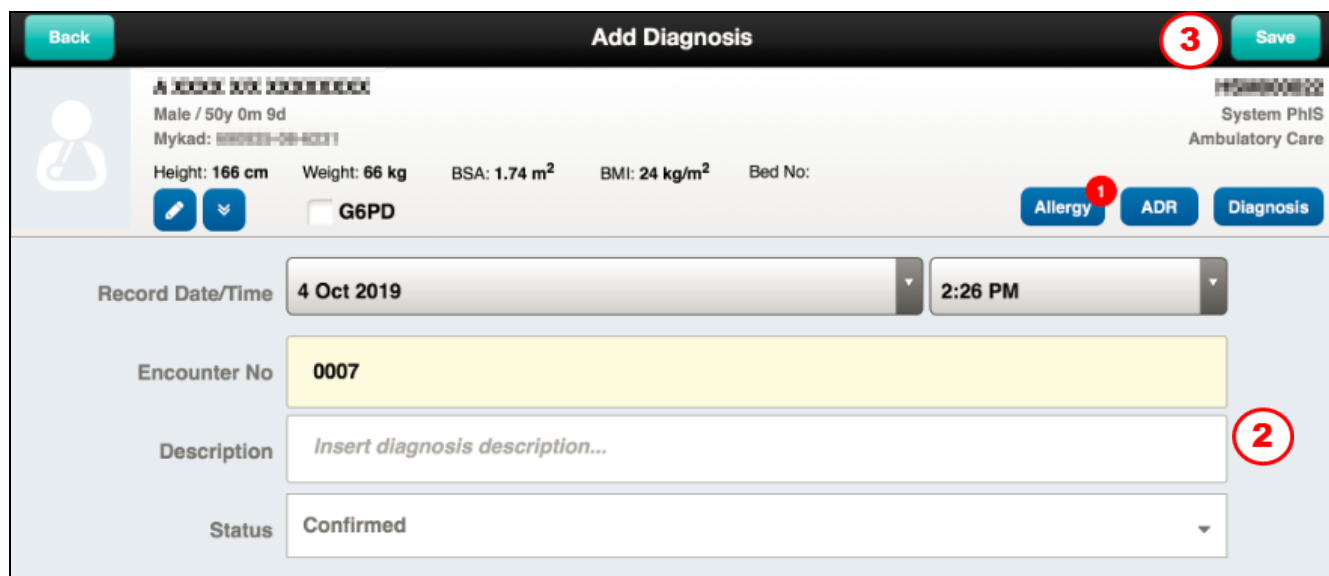
Date/Time	Description	Status	Encounter No.	Buttons
No diagnosis history				

Date/Time	Description	Status	Encounter No.	Buttons
No diagnosis history				

Figure 3.1.2-2 Diagnosis Landing Screen

**Note**

- **Diagnosis History** to view patient's diagnosis history.



**Add Diagnosis**

Male / 50y 0m 9d  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
G6PD

Allergy ADR Diagnosis

Record Date/Time: 4 Oct 2019 2:26 PM

Encounter No: 0007

Description: Insert diagnosis description...

Status: Confirmed

Save

Figure 3.1.2-3 Diagnosis Detail Screen

**STEP 2**

Enter diagnosis **Description**

**STEP 3**

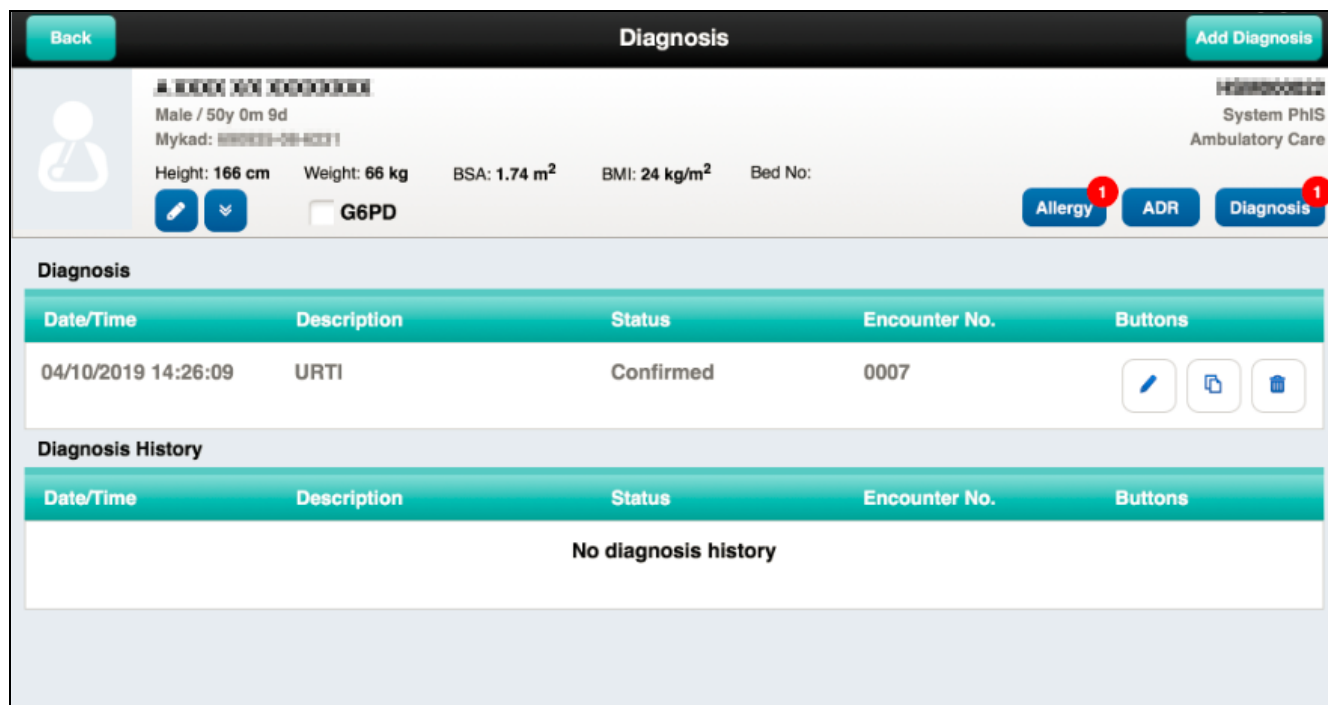
Tap on the **Save** button to confirm the record

**Note**

- **Record Date/Time** system will default to current date and time, but the user still has the option to select from calendar.



- **Status** will be defaulted to **Confirmed** but users can select from the drop down box for other status:
  - Confirmed
  - Resolved
  - Suspected
  - To be Confirmed



**Diagnosis**

Back Add Diagnosis

Male / 50y 0m 9d  
Mykad: [REDACTED]  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
G6PD

Allergy ADR Diagnosis




Date/Time	Description	Status	Encounter No.	Buttons
04/10/2019 14:26:09	URTI	Confirmed	0007	[Edit] [Copy] [Delete]

**Diagnosis History**

Date/Time	Description	Status	Encounter No.	Buttons
No diagnosis history				

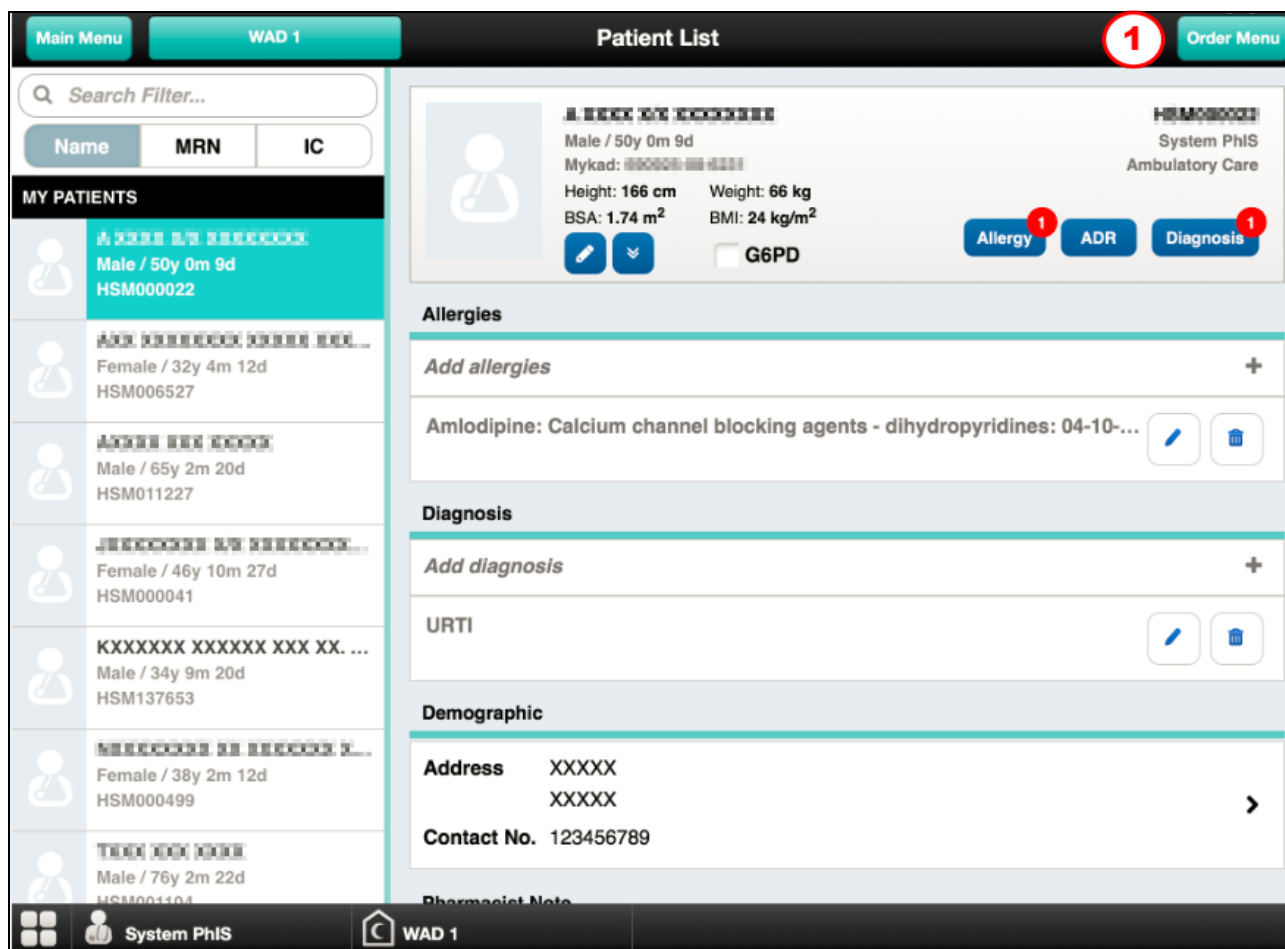
Figure 3.1.2-4 Diagnosis Detail Screen

**Note**

- Tap  button for record / renew same diagnosis, user need to tap on  button and tap on the  button to confirm the record.
- Recorded diagnosis will displayed as per figure 3.1.2-4

### 3.1.3 Normal Order

This function is used to prescribe medication for both inpatient and outpatient department.



**Main Menu** **WAD 1** **Patient List** **Order Menu** 1

**Search Filter...**

**Name** **MRN** **IC**

**MY PATIENTS**

- Male / 50y 0m 9d**  
HSM000022
- Female / 32y 4m 12d**  
HSM006527
- Male / 65y 2m 20d**  
HSM011227
- Female / 46y 10m 27d**  
HSM000041
- Male / 34y 9m 20d**  
HSM137653
- Female / 38y 2m 12d**  
HSM000499
- Male / 76y 2m 22d**  
HSM001104

**Male / 50y 0m 9d**  
Mykad: **166 cm** **Weight: 66 kg**  
**BSA: 1.74 m<sup>2</sup>** **BMI: 24 kg/m<sup>2</sup>**  
**G6PD**

**Allergies**

**Add allergies** **+**

**Amlodipine: Calcium channel blocking agents - dihydropyridines: 04-10-...** **+**

**Diagnosis**

**Add diagnosis** **+**

**URTI** **+**

**Demographic**

**Address** **XXXXX**  
**XXXXX** **>**

**Contact No.** 123456789

**Pharmacist Note**

**System PhIS** **WAD 1**

Figure 3.1.3-1 Order Screen Listing Page

#### Note

Repeat **step 1** until **step 3** as section 3.1.1 record allergy

#### STEP 1

Tap on the **Order Menu** button

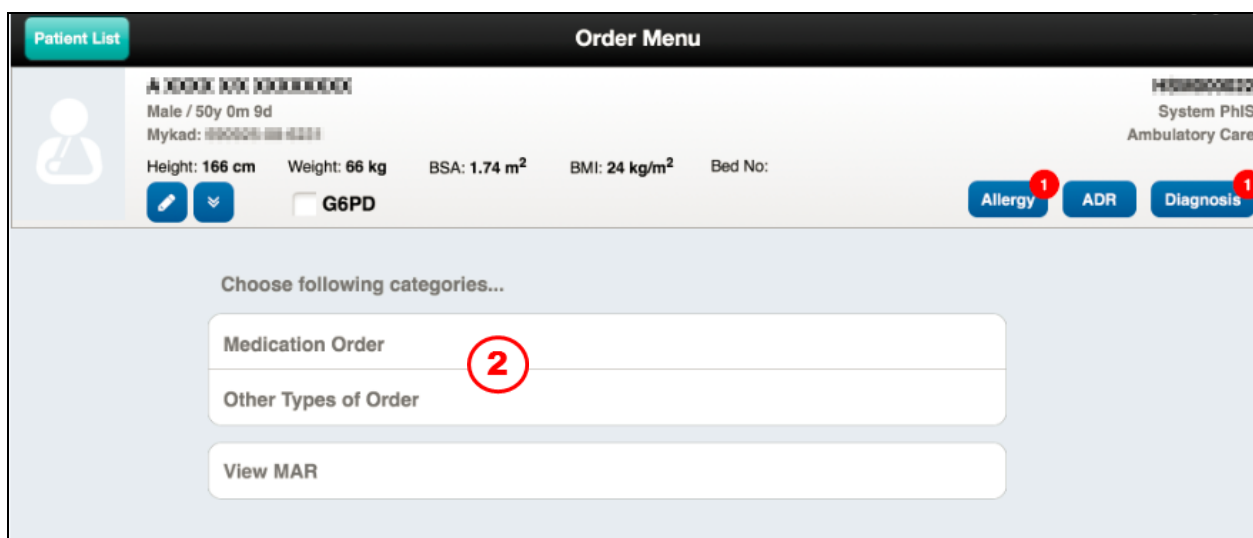


Figure 3.1.3-2 Order Screen Listing Page

## STEP 2

Tap on the **Medication Order** field

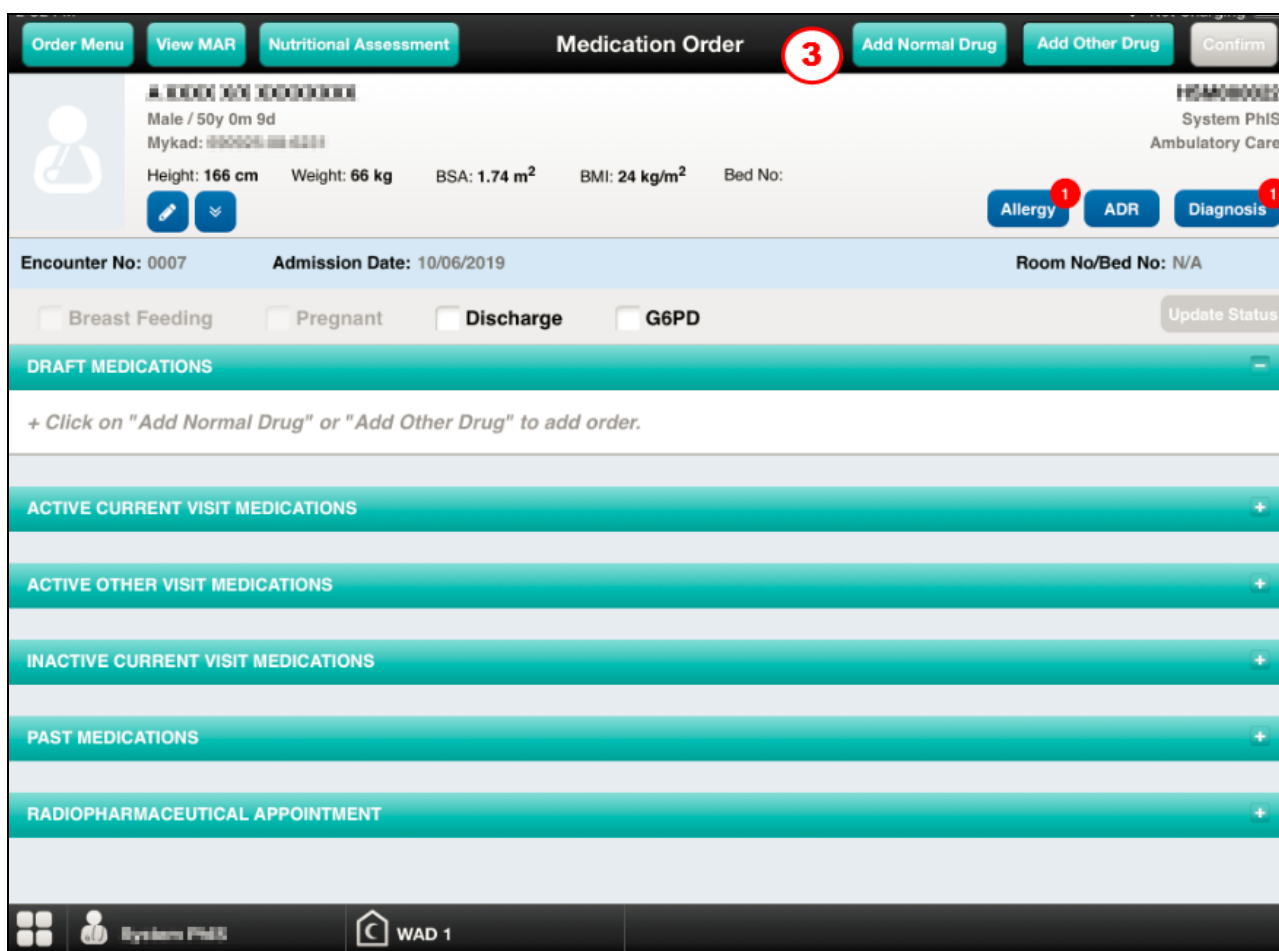


Figure 3.1.3-3 Order Screen Listing Page

### Note

- Breast Feeding and Pregnant checkboxes are only applicable for female patient.
- Prescriber able to update on **G6PD** checkbox as appear in Figure 3.1.3-3. **G6PD** refer as Deficiency enzyme of Glukosa-6-Fostat Dehydrogenase

### STEP 3

Tap on the **Add Normal Drug** button

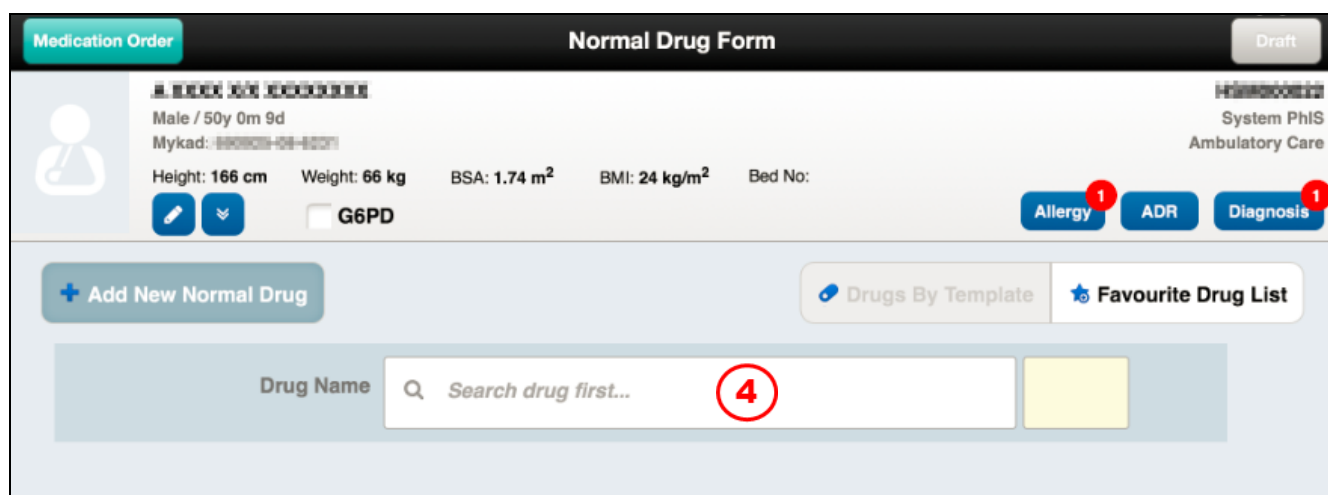


Figure 3.1.3-4 Order Screen Listing Page

### STEP 4

Search drug by enter keyword of the drug name

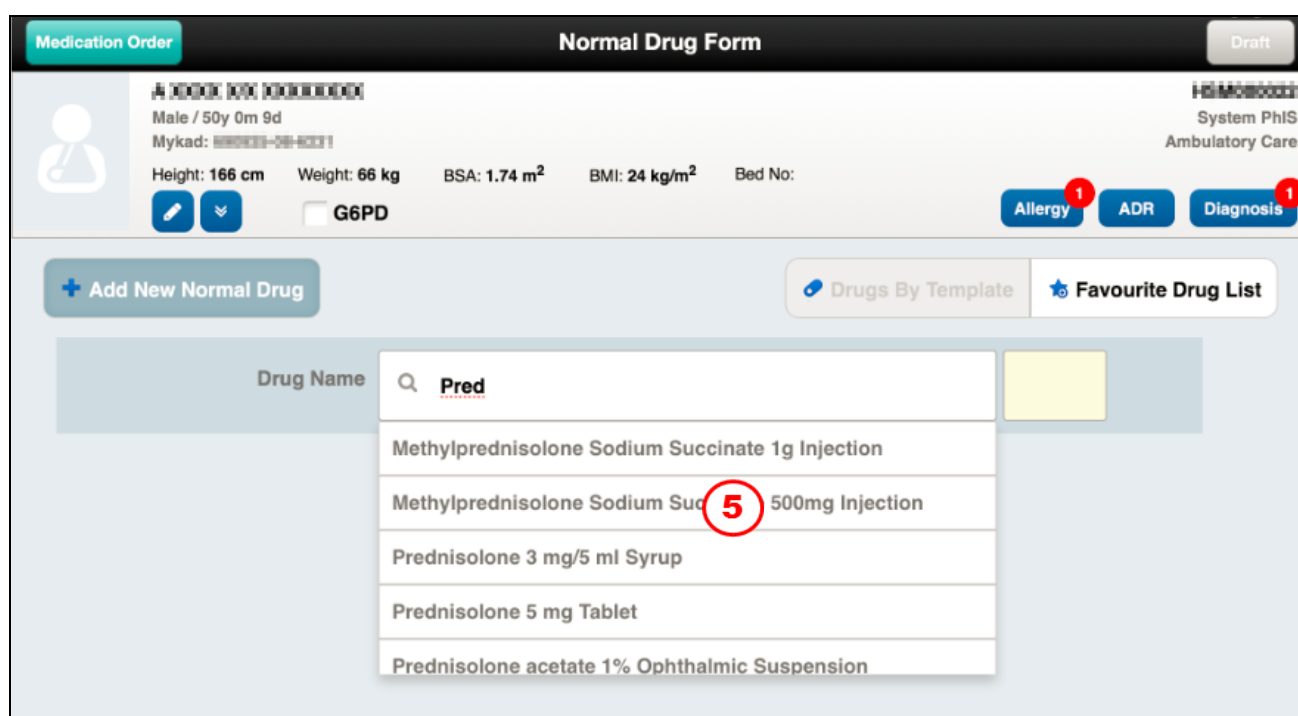


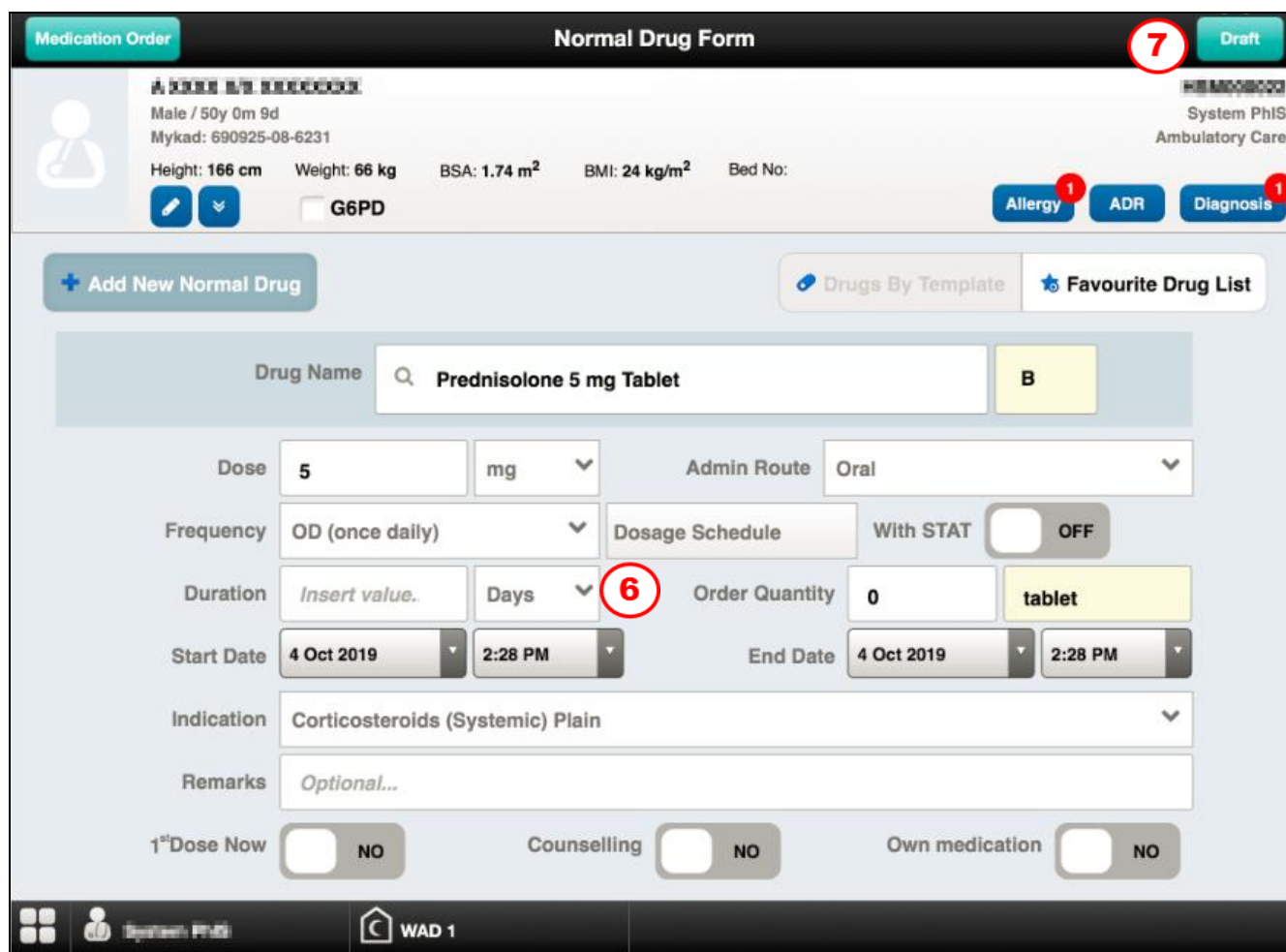
Figure 3.1.3-5 Order Screen Listing Page

## STEP 5

Tap on the selected drug from displayed list

### Note

*This list will be displayed with the result of any drug active ingredient or trade name contains the search text criteria.*



The screenshot displays the 'Normal Drug Form' interface. At the top, there's a 'Medication Order' header and a 'Draft' button. Patient details include 'Male / 50y 0m 9d', 'Mykad: 690925-08-6231', 'Height: 166 cm', 'Weight: 66 kg', 'BSA: 1.74 m<sup>2</sup>', 'BMI: 24 kg/m<sup>2</sup>', and 'Bed No:'. There are buttons for 'Allergy', 'ADR', and 'Diagnosis'. Below this, there's a section for 'Add New Normal Drug' and 'Favourite Drug List'. The main form area contains fields for 'Drug Name' (Prednisolone 5 mg Tablet), 'Dose' (5 mg), 'Admin Route' (Oral), 'Frequency' (OD (once daily)), 'Duration' (Insert value.. Days), 'Order Quantity' (0), 'Start Date' (4 Oct 2019, 2:28 PM), 'End Date' (4 Oct 2019, 2:28 PM), 'Indication' (Corticosteroids (Systemic) Plain), and 'Remarks' (Optional...). At the bottom, there are checkboxes for '1<sup>st</sup>Dose Now', 'Counselling', and 'Own medication', all set to 'NO'. A red circle with the number 6 highlights the 'Days' dropdown menu in the Duration field.

Figure 3.1.3-6 Normal Order Detail Screen

## STEP 6

Enter **Duration** and select days/months or weeks from drop down menu

## STEP 7

Tap on the **Draft** button to add drug in prescription list

### Note

- **Start Date/Time** will be defaulted to current date.
- **End Date/Time** will be calculated based on the Duration.
- **Dosage, Admin Route and Frequency** will be retrieved from master setup, however prescriber can amend the value accordingly as required
- Insert drug with other frequency and select **with STAT** checkbox.

- **Counselling Indication** checkbox can be selected if prescriber want pharmacist to counsel the patient on the medicines.
- Check the **Own Medication** checkbox if patient brought and used their own medication. Only applicable for inpatient and where pharmacist do not supply medication to the wards.
- Enter **Drug Remark** if applicable.

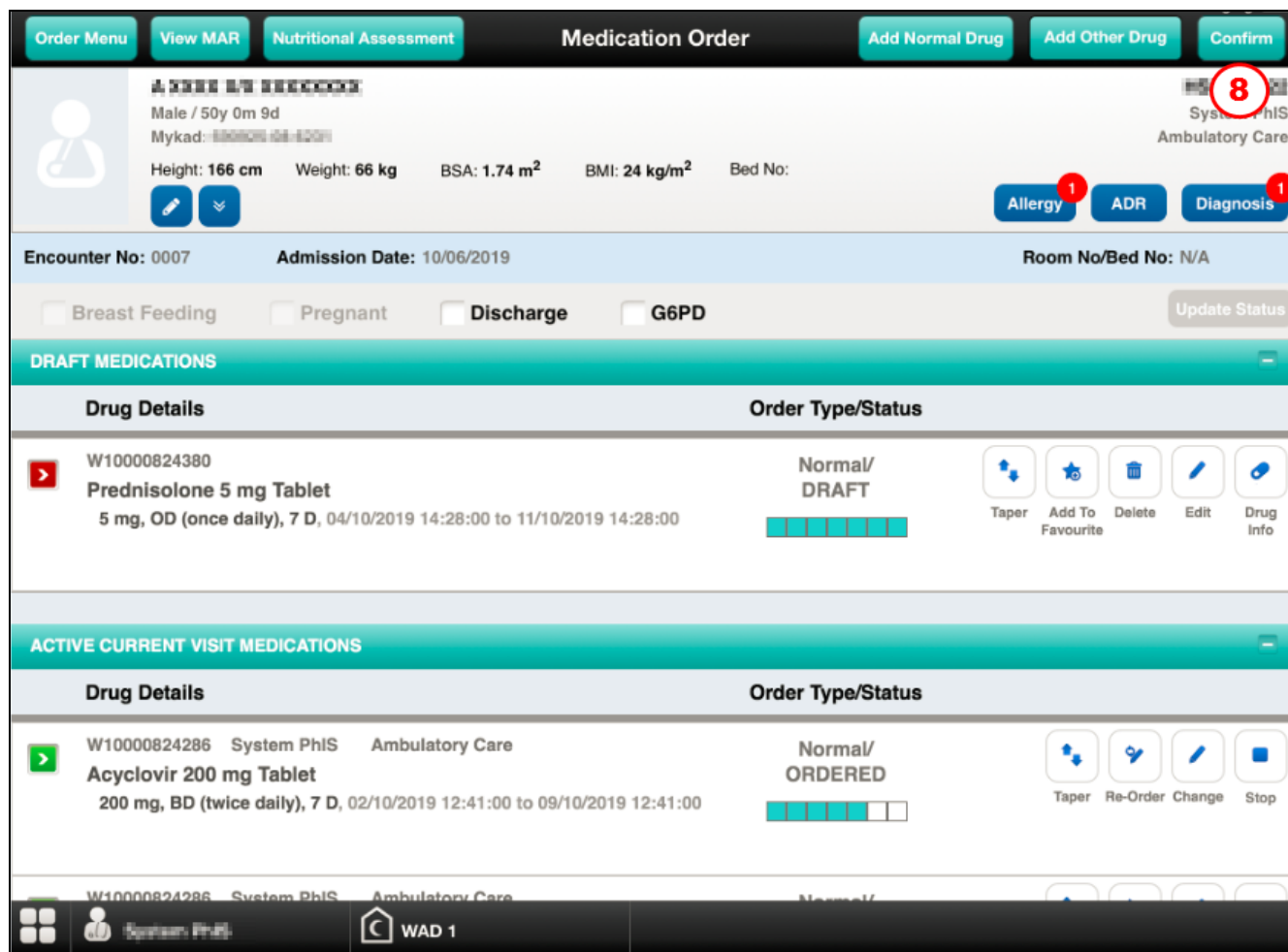


Figure 3.1.3-7 Normal Order Detail Screen

**Note**

- To add another drug in prescription repeat **Step 1** to **7**
- Order Status = 'Draft' , saved prescription but has not been confirmed.

**STEP 8**

Tap on the **Confirm** button to confirm order and prescription will sent to pharmacy for dispensing

### Note

- For paediatric patient, there will be a dose calculator for children dose calculation (dose/kg weight) for child below 18 years of age.

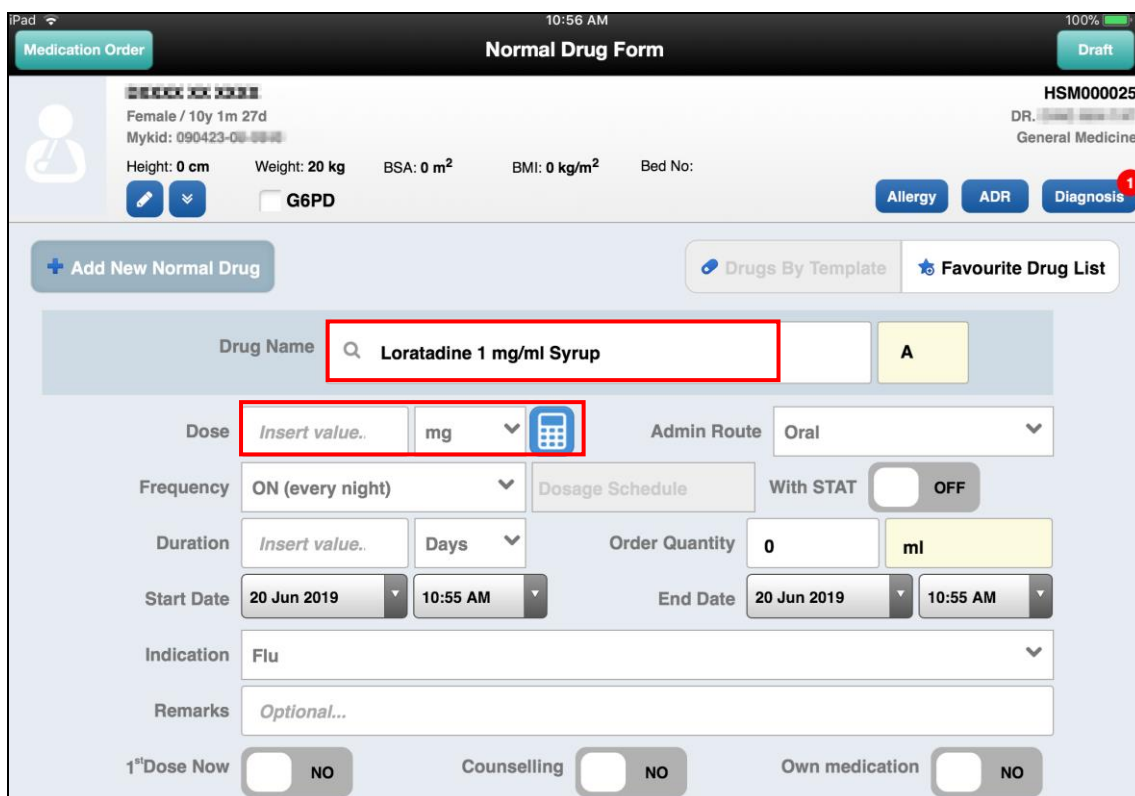


Figure 3.1.3-8 Normal Order Detail Screen

- After enter patient weight and height and calculator will count for BSA automatically.

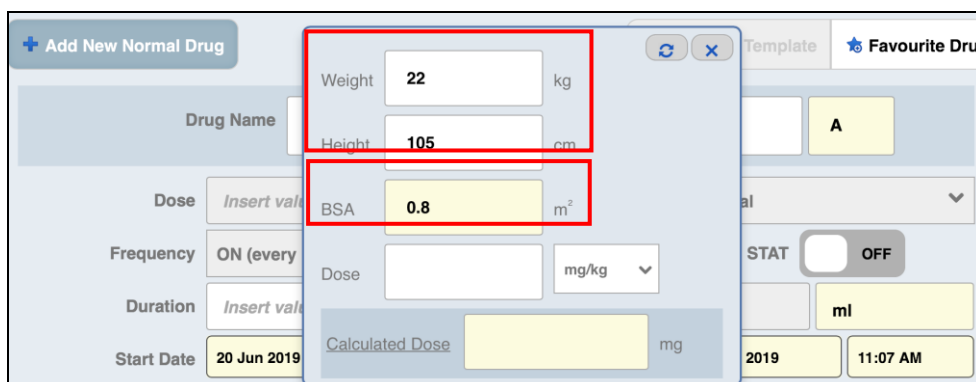

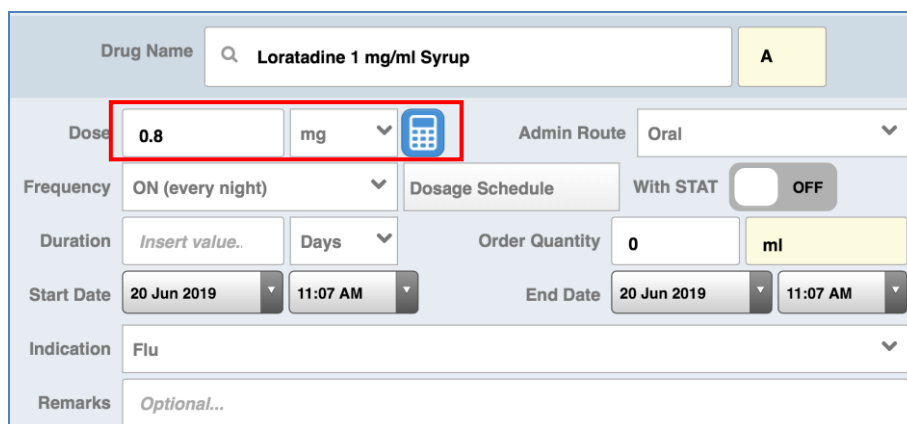


Figure 3.1.3-8 Normal Order Detail Screen

- Once dose has been calculated, tap on Close  button. Dose will be auto calculated and this value will be copied automatically to Dose column.





**Figure 3.1.3-9 Normal Order Detail Screen**

- Calculated Dose unit will auto change to a unit dose as per drugs, depends on the selected drugs.
  - If drug unit dose in IU, Dose will be shown as IU/kg or IU/BSA m2. Calculated Dose show as IU.
  - If unit dose in ml, Dose will be shown as ml/kg or ml/BSA m2. Calculated Dose field show as ml.
  - If unit dose in vial, Dose will be shown as vial/kg or vial/ BSA m2. Calculated Dose field show as vial.
  - If unit dose in mcg, Dose will be shown as mcg/kg or mcg/ BSA m2. Calculated Dose field show as mcg.
- Below is the formula for Calculated Dose for Paediatrician:
  - User Enter a value (example) : Weight=11.3kg, Height=43cm, Dose=25  
BSA (m2) formula as:  $\text{SQRT}([\text{Height}(\text{cm}) \times \text{Weight}(\text{kg})] / 3600)$  – Mosteller formula
  - $\text{BSA (m2)} = \text{SQRT}([11.3\text{kg} \times 43\text{cm}] / 3600) = \text{SQRT}[(485.9 / 3600)] = \text{ROUND UP 2 DIGIT } 0.37 \text{ m2}$
- Unit Dose depends on selected drug unit dose and has option as <unit dose>/BSA or <unit dose>/kg.

#### **Note**

- Master Index of Medical Specialities (MIMS) will alert if there is any drug interaction.
- On tap of confirm button, system will check if diagnosis already entered or not.
- If diagnosis is entered, order will be confirmed. Medication order screen will be displayed.
- If diagnosis is not entered, diagnosis screen will be displayed. On tap of save button diagnosis will be save and order will be confirmed. Medication order screen will be displayed.
- For inpatient order, user allowed to create order duration maximum to 7 days. The bar indicator will indicate the number of days order is being created. If all bar coloured (green), it means order duration is for 7 days. Otherwise it will be blank.



Order Menu
View MAR
Nutritional Assessment
Medication Order
Add Normal Drug
Add Other Drug
Confirm

Male / 50y 0m 9d  
Mykad:

HSM000022  
System PhIS  
Ambulatory Care

Height: 166 cm   Weight: 66 kg   BSA: 1.74 m<sup>2</sup>   BMI: 24 kg/m<sup>2</sup>   Bed No:

Allergy <sup>1</sup>   ADR   Diagnosis <sup>1</sup>

Encounter No: 0007   Admission Date: 10/06/2019   Room No/Bed No: N/A

☐ Breast Feeding   ☐ Pregnant   ☐ Discharge   ☐ G6PD   Update Status

DRAFT MEDICATIONS

Drug Details	Order Type/Status	
W10000824380 <b>Prednisolone 5 mg Tablet</b> 5 mg, OD (once daily), 7 D, 04/10/2019 14:28:00 to 11/10/2019 14:28:00	Normal/ DRAFT	Taper    Add To Favourite    Delete    Edit    Drug Info

ACTIVE CURRENT VISIT MEDICATIONS

Drug Details	Order Type/Status	
W10000824286   System PhIS   Ambulatory Care <b>Acyclovir 200 mg Tablet</b> 200 mg, BD (twice daily), 7 D, 02/10/2019 12:41:00 to 09/10/2019 12:41:00	Normal/ ORDERED	Taper    Re-Order    Change    Stop

WAD 1

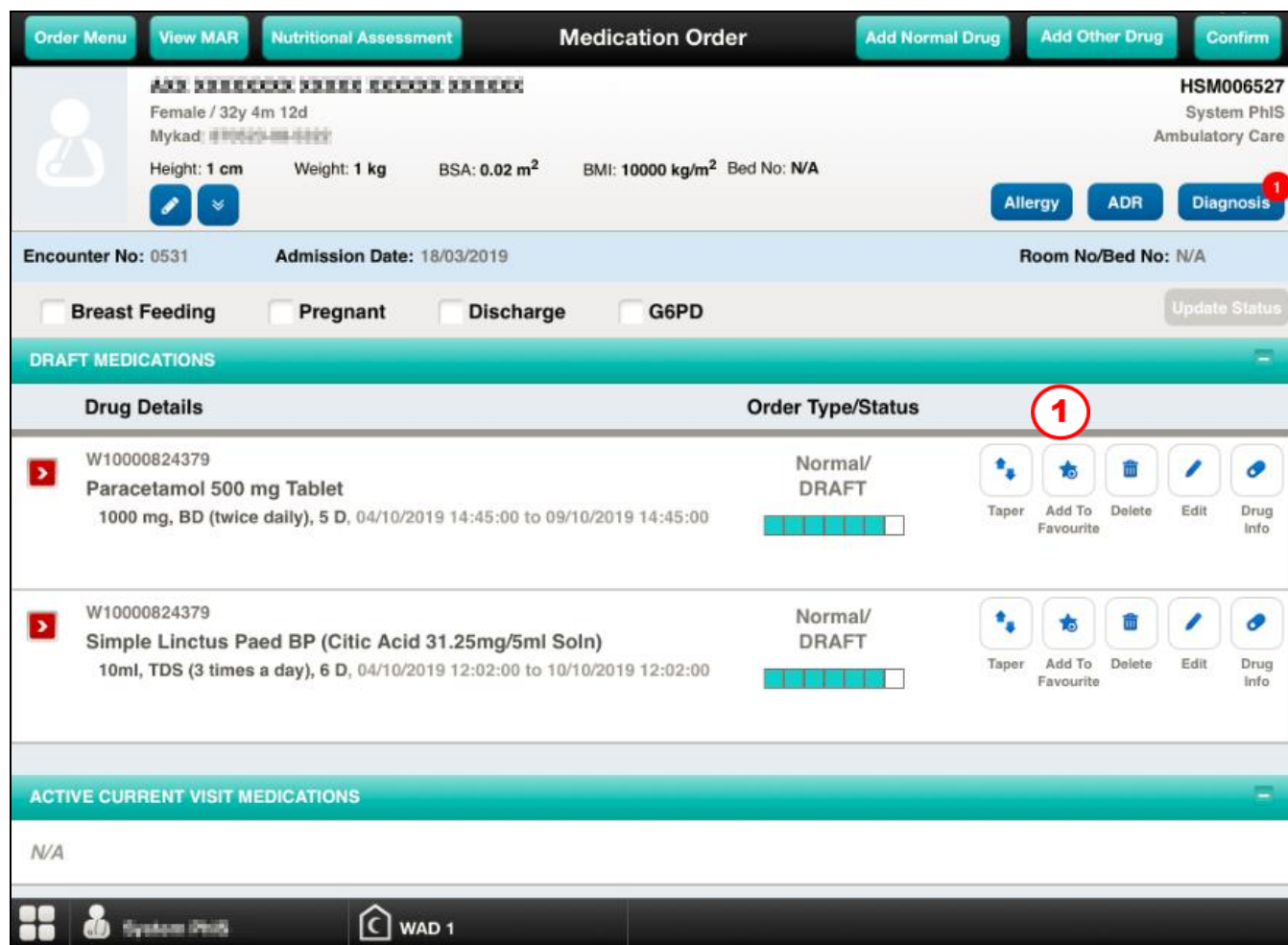
Figure 3.1.3-10 Normal Order Detail Screen

**Note**

Order Status = 'ORDERED' , confirmed prescription as per Figure 3.1.3-10

### 3.1.4 Add to Favorite

Prescriber able to create their own favourite medication list for regular used. This is the quicker way to search the drug by favourite list rather than whole drug master.




The screenshot shows the 'Medication Order' screen. At the top, there are tabs for 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Medication Order', 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. Below these, patient information is displayed: 'Female / 32y 4m 12d', 'Mykad: [redacted]', 'Height: 1 cm', 'Weight: 1 kg', 'BSA: 0.02 m<sup>2</sup>', 'BMI: 10000 kg/m<sup>2</sup>', and 'Bed No: N/A'. There are buttons for 'Allergy', 'ADR', and 'Diagnosis'. Below this, encounter and admission details are shown: 'Encounter No: 0531', 'Admission Date: 18/03/2019', and 'Room No/Bed No: N/A'. There are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', along with an 'Update Status' button. The 'DRAFT MEDICATIONS' section contains two entries: 'Paracetamol 500 mg Tablet' and 'Simple Linctus Paed BP (Citric Acid 31.25mg/5ml Soln)'. Each entry has a 'Normal/DRAFT' status indicator and a row of icons: 'Taper', 'Add To Favourite' (circled in red with a '1'), 'Delete', 'Edit', and 'Drug Info'. The 'ACTIVE CURRENT VISIT MEDICATIONS' section is currently empty, showing 'N/A'.

Figure 3.1.4-1 Add to Favorites Option Screen

#### **Note**

Repeat normal order, follow **Step 1** to **7**.

#### **STEP 1**

Tap on the  button from the selected drug

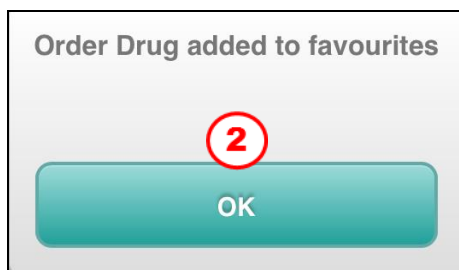

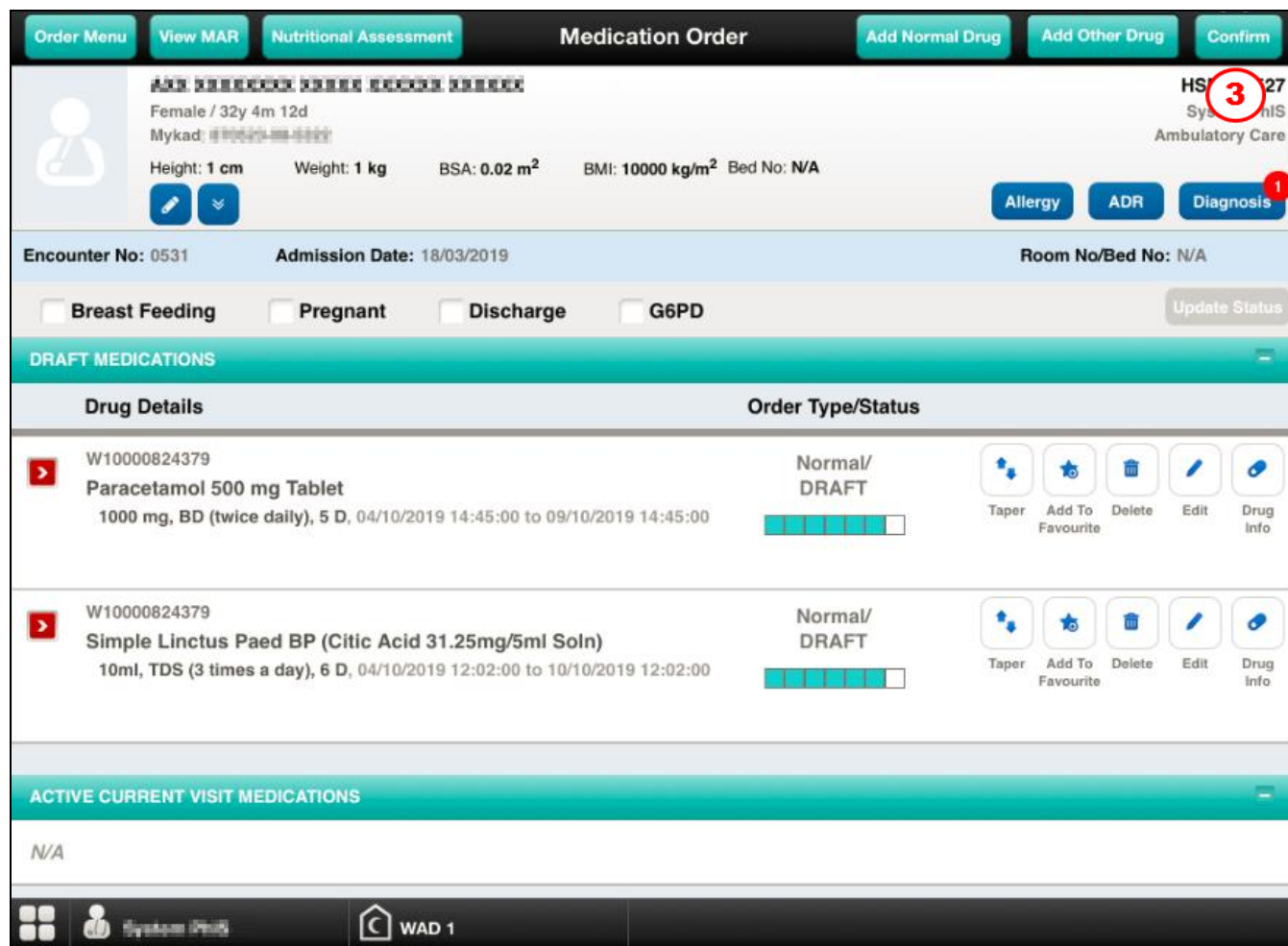


Figure 3.1.4-2 Add to Favorites Option Screen

## STEP 2


Tap on the  button from displayed alert message



The screenshot displays the 'Medication Order' screen. At the top, there are navigation buttons: 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Medication Order' (active), 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. Below these, patient information is shown: 'Female / 32y 4m 12d', 'Mykad: [redacted]', 'Height: 1 cm', 'Weight: 1 kg', 'BSA: 0.02 m<sup>2</sup>', 'BMI: 10000 kg/m<sup>2</sup>', and 'Bed No: N/A'. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis'. Encounter details include 'Encounter No: 0531', 'Admission Date: 18/03/2019', and 'Room No/Bed No: N/A'. Below this, there are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', along with an 'Update Status' button. The 'DRAFT MEDICATIONS' section lists two items: 'Paracetamol 500 mg Tablet' and 'Simple Linctus Paed BP (Citric Acid 31.25mg/5ml Soln)'. Each item has a 'Normal/DRAFT' status indicator and a set of icons for 'Taper', 'Add To Favourite', 'Delete', 'Edit', and 'Drug Info'. The 'ACTIVE CURRENT VISIT MEDICATIONS' section shows 'N/A'. At the bottom, there is a navigation bar with icons for 'System Profile', 'WAD 1', and other functions.

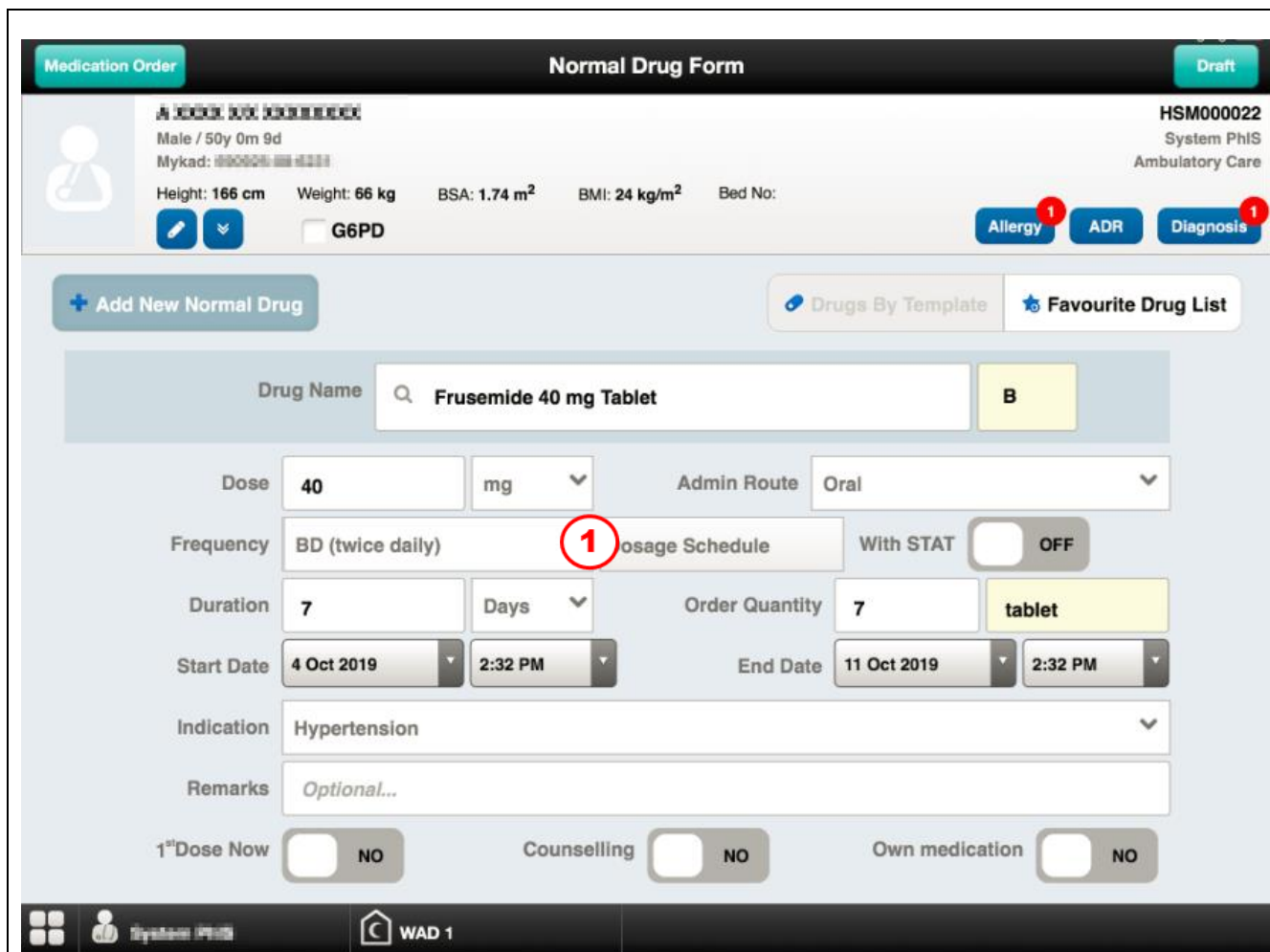
Figure 3.1.4-3 Add to Favorites Option Screen

## STEP 3

Tap on the  button to confirm order and prescription will sent to pharmacy for dispensing

### 3.1.5 Split Dose

This function is used to create multi dosing in a way to administer in a different time with different dosage.



**Medication Order** **Normal Drug Form** **Draft**

**Patient Information:**  
 Male / 50y 0m 9d  
 Mykad: [REDACTED]  
 Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
☐ G6PD

**Buttons:** Allergy <sup>1</sup> ADR Diagnosis <sup>1</sup>

**Actions:** + Add New Normal Drug Drugs By Template Favourite Drug List

**Drug Name:** Frusemide 40 mg Tablet **B**

**Dose:** 40 mg **Admin Route:** Oral

**Frequency:** BD (twice daily) **Dosage Schedule** <sup>1</sup> **With STAT:** OFF

**Duration:** 7 Days **Order Quantity:** 7 tablet

**Start Date:** 4 Oct 2019 2:32 PM **End Date:** 11 Oct 2019 2:32 PM

**Indication:** Hypertension

**Remarks:** Optional...

**1<sup>st</sup> Dose Now:** NO **Counselling:** NO **Own medication:** NO

**Footer:** System PhIS WAD 1

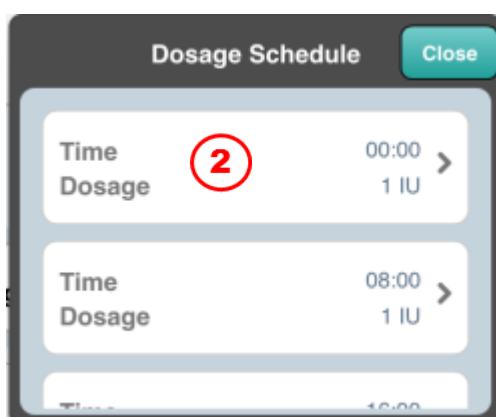
Figure 3.1.5-1 Normal Order Screen

#### Note

To prescribe split dose, repeat as normal order from **Step 1** to **7**.

#### STEP 1

Click on the **Dosage Schedule** button and schedule box will displayed as per Figure 3.1.5-2



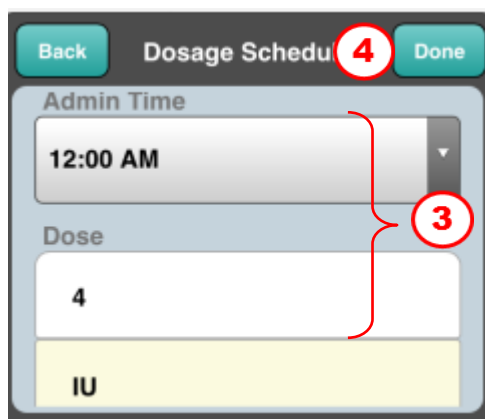
**Dosage Schedule** **Close**

Time	00:00	>
Dosage	1 IU	
Time	08:00	>
Dosage	1 IU	
Time	16:00	>

Figure 3.1.5-2 Dosage Schedule Screen

## STEP 2

Tap on the dose for each **Time / Dosage** schedule



The screenshot shows the 'Dosage Schedule' screen. At the top, there are 'Back' and 'Done' buttons. The 'Admin Time' is set to '12:00 AM'. Below it, the 'Dose' is '4' and the 'IU' is 'IU'. A red bracket labeled '3' groups the 'Dose' and 'IU' fields. A red circle labeled '4' is around the 'Done' button.

Figure 3.1.5-3 Split Dose Schedule Screen

## STEP 3

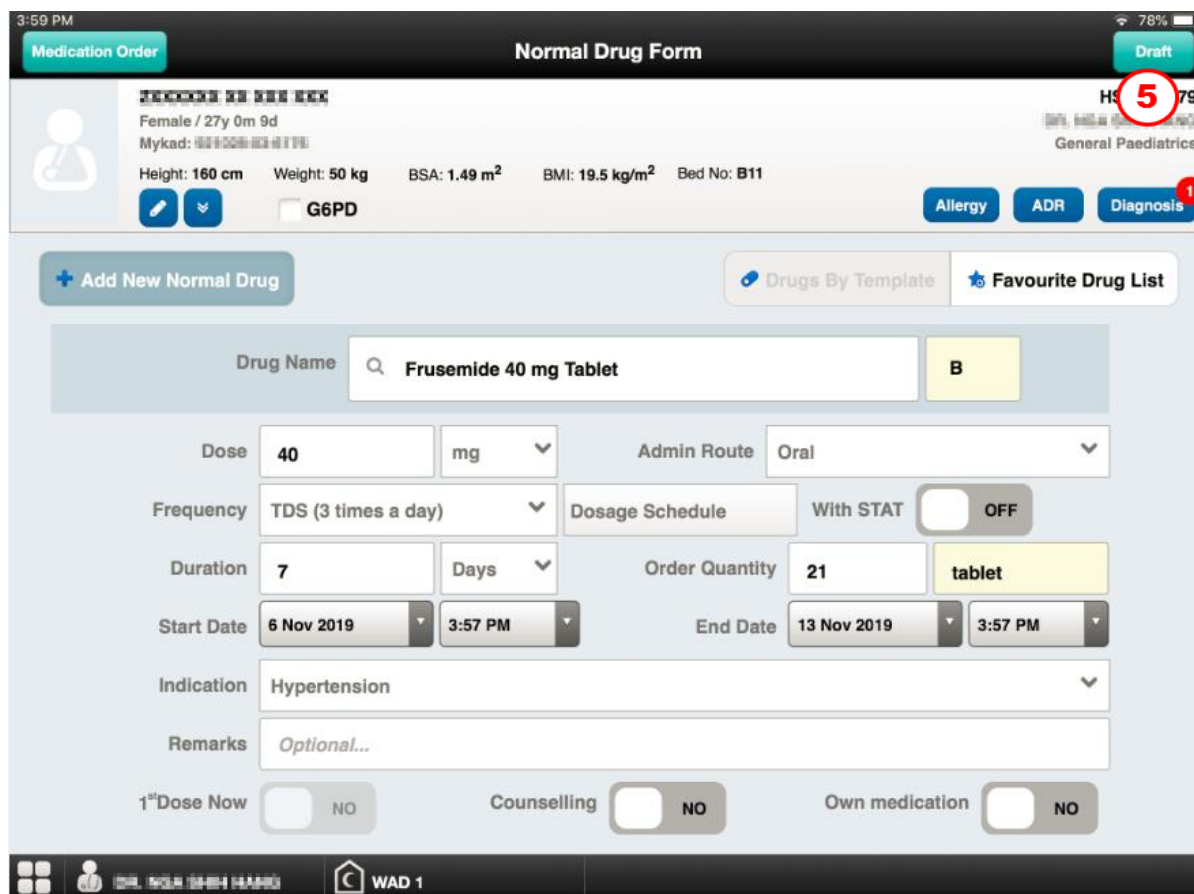
Enter **Admin Time** and **Dose** for each administration

## STEP 4

Tap on the **Done** button to save record

### Note

Prescriber is allowed to change the admin time if necessary .Number of column displayed based on frequency selected.



The screenshot shows the 'Normal Drug Form' screen. At the top, there are 'Medication Order' and 'Draft' buttons. The patient information includes 'Female / 27y 0m 9d', 'Mykad: 0000000000000000', 'Height: 160 cm', 'Weight: 50 kg', 'BSA: 1.49 m²', 'BMI: 19.5 kg/m²', and 'Bed No: B11'. The 'G6PD' status is 'G6PD'. The 'Allergy', 'ADR', and 'Diagnosis' buttons are visible. The 'Drug Name' is 'Frusemide 40 mg Tablet'. The 'Dose' is '40 mg', 'Admin Route' is 'Oral', 'Frequency' is 'TDS (3 times a day)', 'Duration' is '7 Days', 'Order Quantity' is '21 tablet', 'Start Date' is '6 Nov 2019 3:57 PM', 'End Date' is '13 Nov 2019 3:57 PM', 'Indication' is 'Hypertension', and 'Remarks' is 'Optional...'. The '1st Dose Now' button is 'NO', 'Counselling' is 'NO', and 'Own medication' is 'NO'. A red circle labeled '5' is around the 'Draft' button.

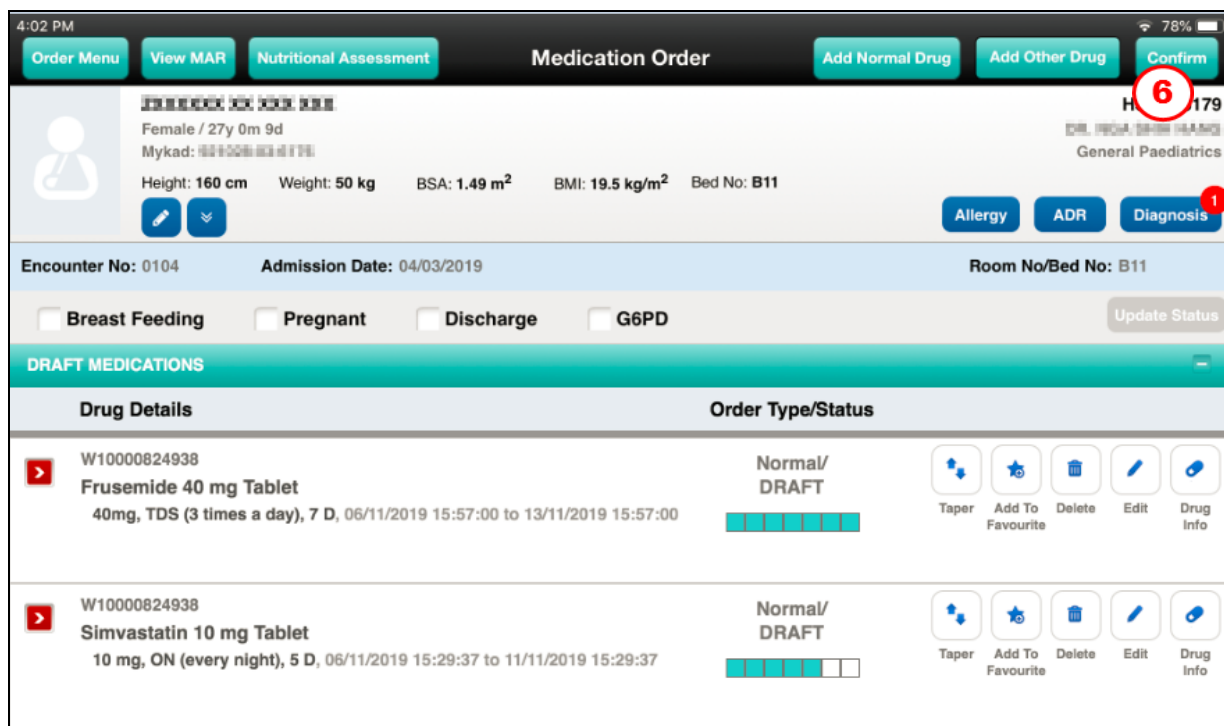
Figure 3.1.5-4 Order Screen

## STEP 5

Click on the **Draft** button to add drug in prescription list

### Note

*Split dose is only applicable for selected drug as defined in the Drug Master setup*



The screenshot displays the 'Medication Order' screen. At the top, there are navigation buttons: 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Medication Order', 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. The 'Confirm' button is circled in red with the number 6. Below the navigation bar, patient information is shown: 'Female / 27y 0m 9d', 'Mykad: [barcode]', 'Height: 160 cm', 'Weight: 50 kg', 'BSA: 1.49 m<sup>2</sup>', 'BMI: 19.5 kg/m<sup>2</sup>', and 'Bed No: B11'. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis' (the latter is circled in red with the number 1). Below this, encounter details are shown: 'Encounter No: 0104', 'Admission Date: 04/03/2019', and 'Room No/Bed No: B11'. There are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', along with an 'Update Status' button. The main section is titled 'DRAFT MEDICATIONS' and contains a table with two rows of medication orders.

Drug Details	Order Type/Status	Actions
<p>W10000824938</p> <p><b>Furosemide 40 mg Tablet</b></p> <p>40mg, TDS (3 times a day), 7 D, 06/11/2019 15:57:00 to 13/11/2019 15:57:00</p>	Normal/ DRAFT	<p>Taper Add To Favourite Delete Edit Drug Info</p>
<p>W10000824938</p> <p><b>Simvastatin 10 mg Tablet</b></p> <p>10 mg, ON (every night), 5 D, 06/11/2019 15:29:37 to 11/11/2019 15:29:37</p>	Normal/ DRAFT	<p>Taper Add To Favourite Delete Edit Drug Info</p>

Figure 3.1.5-5 Order Screen

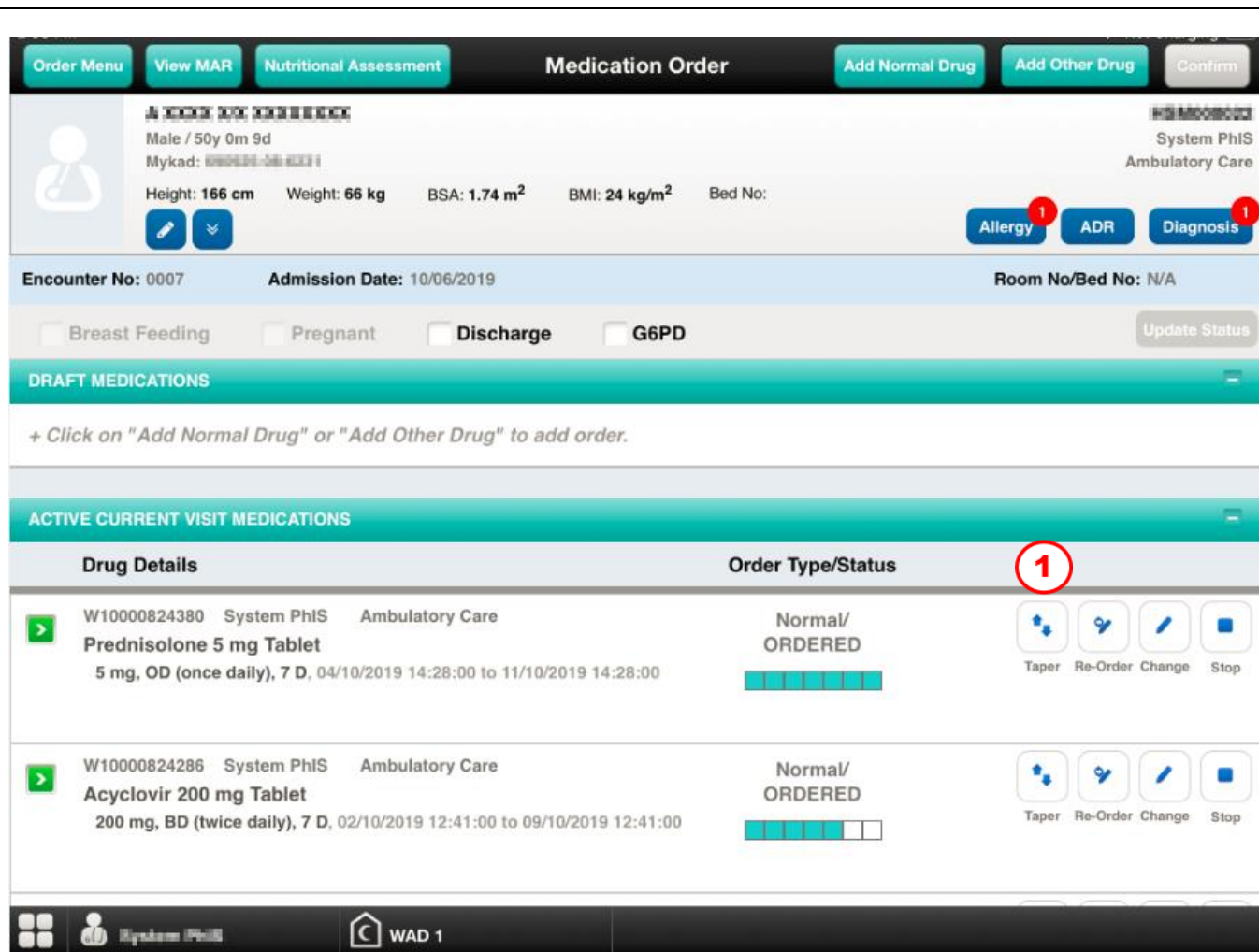
## STEP 6

Tap on the **Confirm** button to confirm and send order to the pharmacy



### 3.1.6 Tapering

Tapering is a function to prescribe same drug with gradually decreasing or increasing the drug dosage by specific duration and time. Tapering drug functions divided into two (2) categories which are taper up / increase dosage or taper down /decrease dosage. Only selected drug which has been defined in drug master set up are allowed to do tapering.



**Order Menu** **View MAR** **Nutritional Assessment** **Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**

Male / 50y 0m 9d  
Mykad:   
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:   
Allergy <sup>1</sup> ADR <sup>1</sup> Diagnosis <sup>1</sup>

Encounter No: 0007 Admission Date: 10/06/2019 Room No/Bed No: N/A  
☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD **Update Status**

**DRAFT MEDICATIONS**

+ Click on "Add Normal Drug" or "Add Other Drug" to add order.

**ACTIVE CURRENT VISIT MEDICATIONS**

Drug Details	Order Type/Status	
<p>W10000824380 System PhIS Ambulatory Care</p> <p><b>Prednisolone 5 mg Tablet</b></p> <p>5 mg, OD (once daily), 7 D, 04/10/2019 14:28:00 to 11/10/2019 14:28:00</p>	Normal/ ORDERED	<div> <div>1</div> <div>Taper</div> <div>Re-Order</div> <div>Change</div> <div>Stop</div> </div>
<p>W10000824286 System PhIS Ambulatory Care</p> <p><b>Acyclovir 200 mg Tablet</b></p> <p>200 mg, BD (twice daily), 7 D, 02/10/2019 12:41:00 to 09/10/2019 12:41:00</p>	Normal/ ORDERED	<div> <div></div> <div>Taper</div> <div>Re-Order</div> <div>Change</div> <div>Stop</div> </div>

System PhIS WAD 1

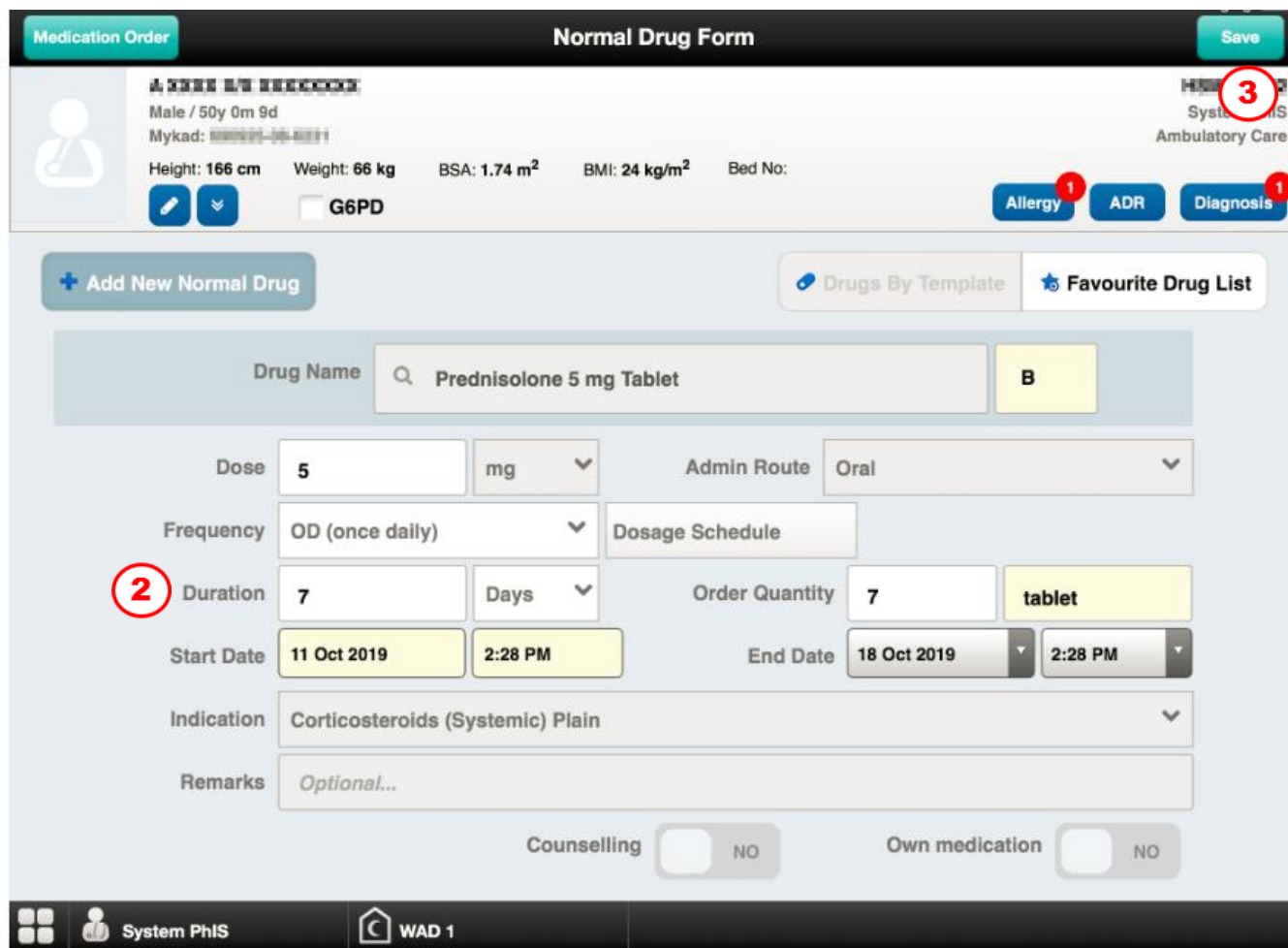
Figure 3.1.6-1 Order Screen

#### Note

To taper prescribed drug, order the first dose as normal order from **Step 1** to **7**.

#### STEP 1

Tap on the  button from the selected drug



**Medication Order** **Normal Drug Form** **Save**

Male / 50y 0m 9d  
Mykad: [REDACTED]  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No: [REDACTED]  
G6PD [REDACTED]

Allergy <sup>1</sup> ADR <sup>1</sup> Diagnosis <sup>1</sup>

+ Add New Normal Drug Drugs By Template Favourite Drug List

Drug Name

Dose  mg Admin Route

Frequency  Dosage Schedule

<sup>2</sup> Duration  Days Order Quantity

Start Date   End Date

Indication

Remarks

Counselling  Own medication

System PhIS WAD 1

Figure 3.1.6-2 Normal Order Screen

## STEP 2


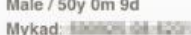
Change the **Dosage**, **Frequency** and **Duration of drugs** as required

## STEP 3

Tap on the **Save** button to save record



Order Menu
View MAR
Nutritional Assessment
Medication Order
Add Normal Drug
Add Other Drug
Confirm


Male / 50y 0m 9d  
Mykad:   
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:

4
Sys PhIS  
Ambulatory Care

Allergy 1 ADR Diagnosis 1











Encounter No: 0007 Admission Date: 10/06/2019 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD Update Status

DRAFT MEDICATIONS

+ Click on "Add Normal Drug" or "Add Other Drug" to add order.

ACTIVE CURRENT VISIT MEDICATIONS

Drug Details	Order Type/Status	
 W10000824380 System PhIS Ambulatory Care <b>Prednisolone 5 mg Tablet</b> 5 mg, OD (once daily), 7 D, 04/10/2019 14:28:00 to 11/10/2019 14:28:00	Normal/ ORDERED <div>  </div>	    Taper Re-Order Change Stop
[Taper] Prednisolone 5 mg Tablet 5 mg, OD on Mon, Wed, Fri, 7 D, 11/10/2019 14:28:00 to 18/10/2019 14:28:00	Normal/ ORDERED <div>  </div>	   Delete Edit Drug Info



 System PhIS
  WAD 1

Figure 3.1.6-3 Normal Order Screen After Tapering

#### Note

- Repeat **step 1 to 3** if another level of taper is required.
- To modify prescription, delete the latest tapering from the list.

#### STEP 4

Tap on the  button to confirm and send order to the pharmacy

### 3.1.7 Discharge Medication

This function is only for inpatient for order discharge medication. The discharge medication can be Prescribed before the patient being discharge.

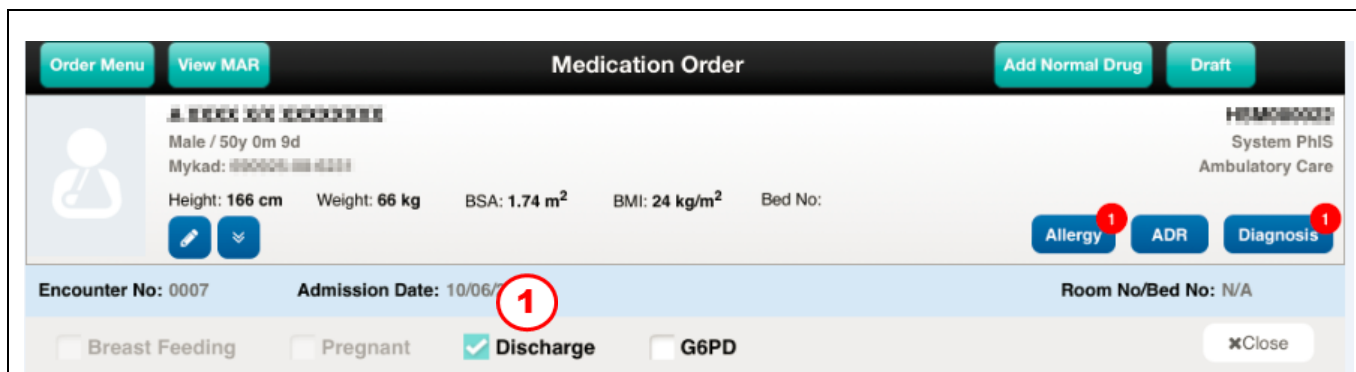


Figure 3.1.7-1 Normal Order Screen After Tapering

#### Note

Repeat **step 1** until **step 3** as section 3.1.3 Normal Order section

#### STEP 1

Tap on the Discharge ☒ checkbox

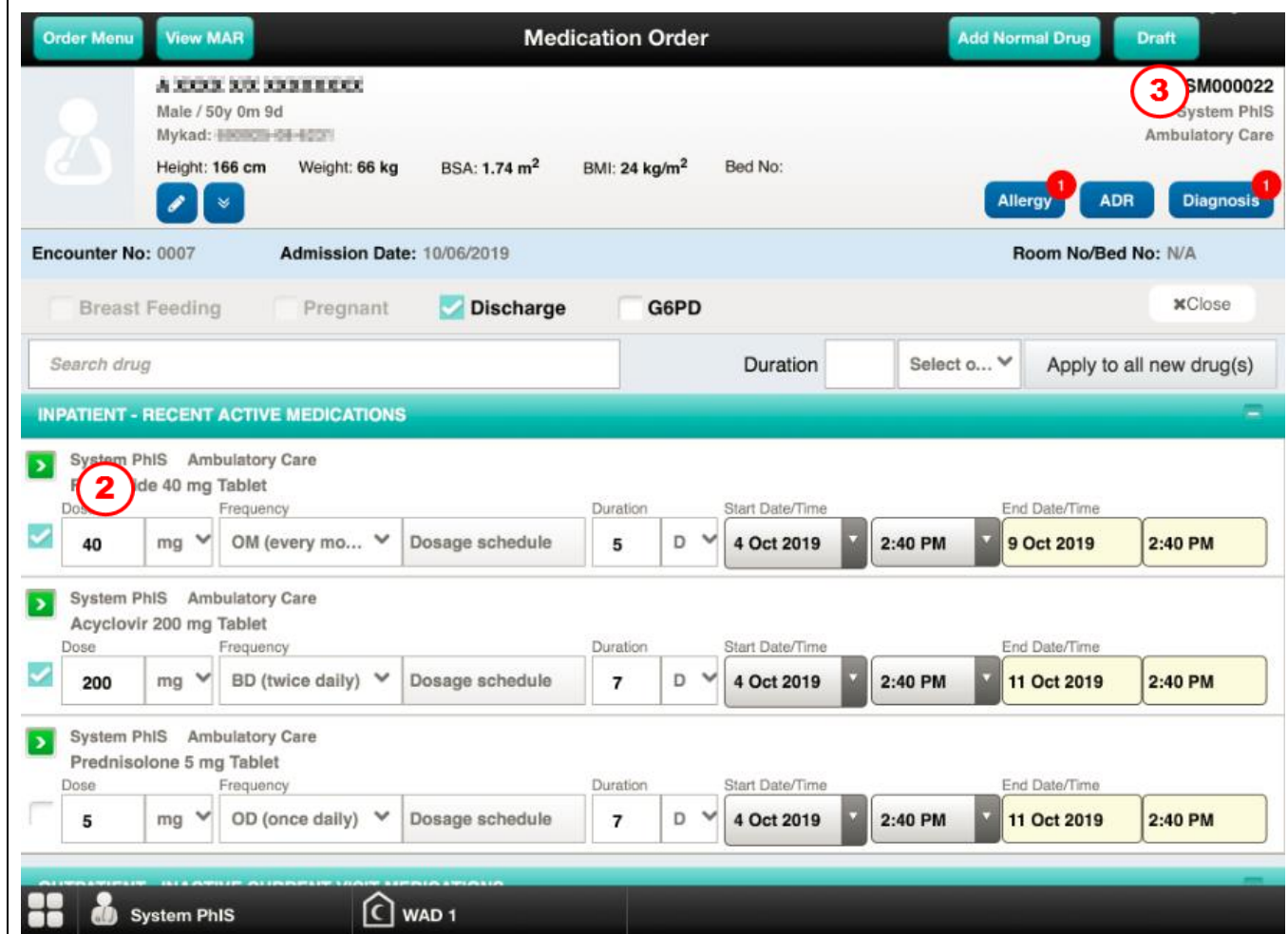


Figure 3.1.7-2 Normal Discharge Medication Screen

**STEP 2**

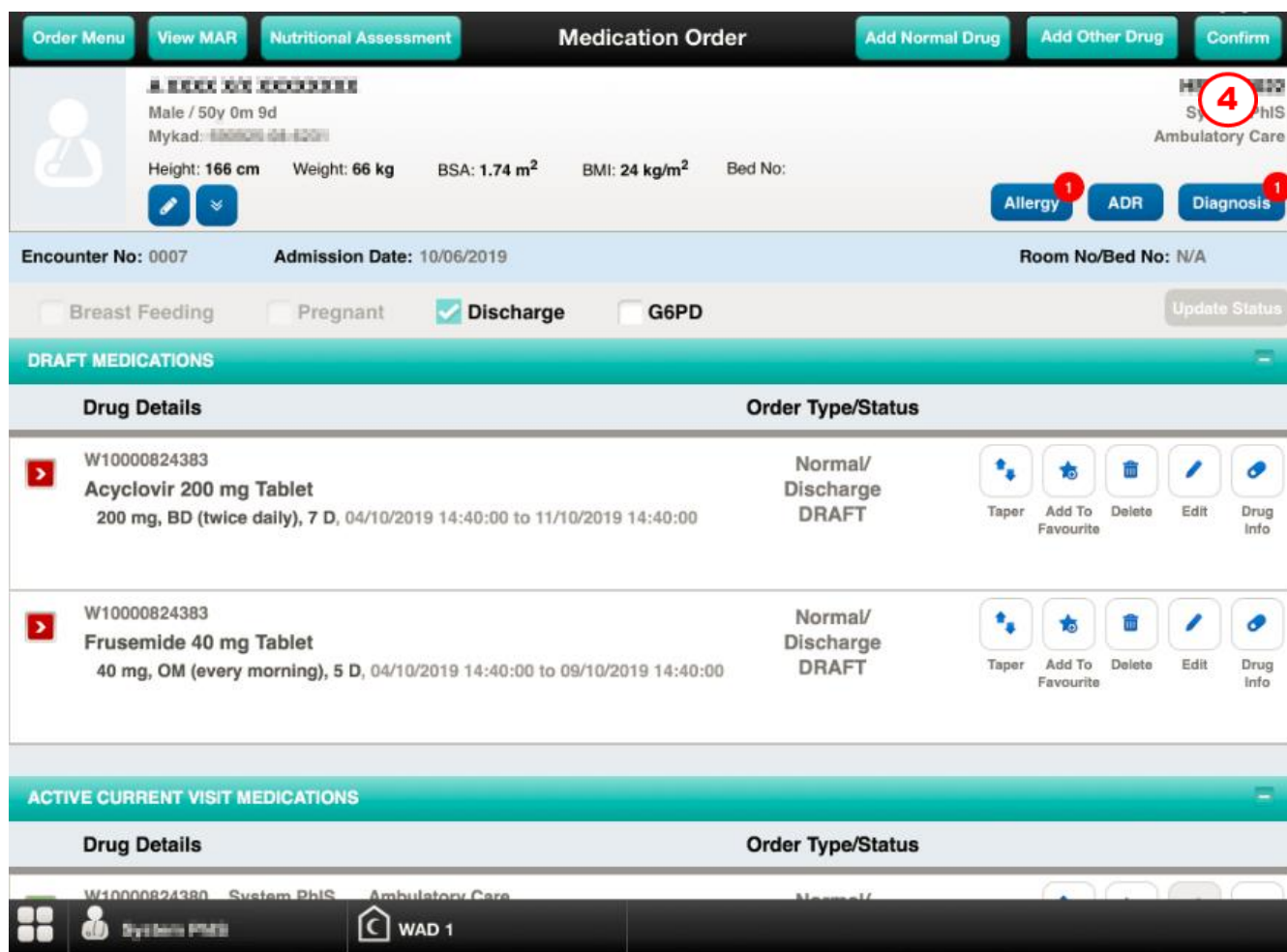
Tap on the ☐ checkbox to select drugs that want to continue after discharge

**Note**

User also should be able to change the duration, dose and frequency when create for discharge order.

**STEP 3**

Tap on the **Draft** button



The screenshot displays the 'Medication Order' screen for a patient. At the top, there are navigation buttons: 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Medication Order' (active), 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. Below this, patient information is shown: 'Male / 50y 0m 9d', 'Mykad: 880808-88-8808', 'Height: 166 cm', 'Weight: 66 kg', 'BSA: 1.74 m<sup>2</sup>', 'BMI: 24 kg/m<sup>2</sup>', and 'Bed No:'. A red circle with the number 4 highlights the 'Draft' button in the top right corner. Below the patient information, there are buttons for 'Allergy', 'ADR', and 'Diagnosis'. The 'Encounter No: 0007' and 'Admission Date: 10/06/2019' are displayed. The 'Room No/Bed No: N/A' is also shown. The 'Discharge' checkbox is checked. Below this, there is a section for 'DRAFT MEDICATIONS' with two entries: 'Acyclovir 200 mg Tablet' and 'Frusemide 40 mg Tablet'. Each entry shows the dosage, frequency, and duration. The 'Order Type/Status' for both is 'Normal/Discharge DRAFT'. At the bottom, there is a section for 'ACTIVE CURRENT VISIT MEDICATIONS'.

Figure 3.1.7-3 Normal Discharge Medication Screen

**STEP 4**

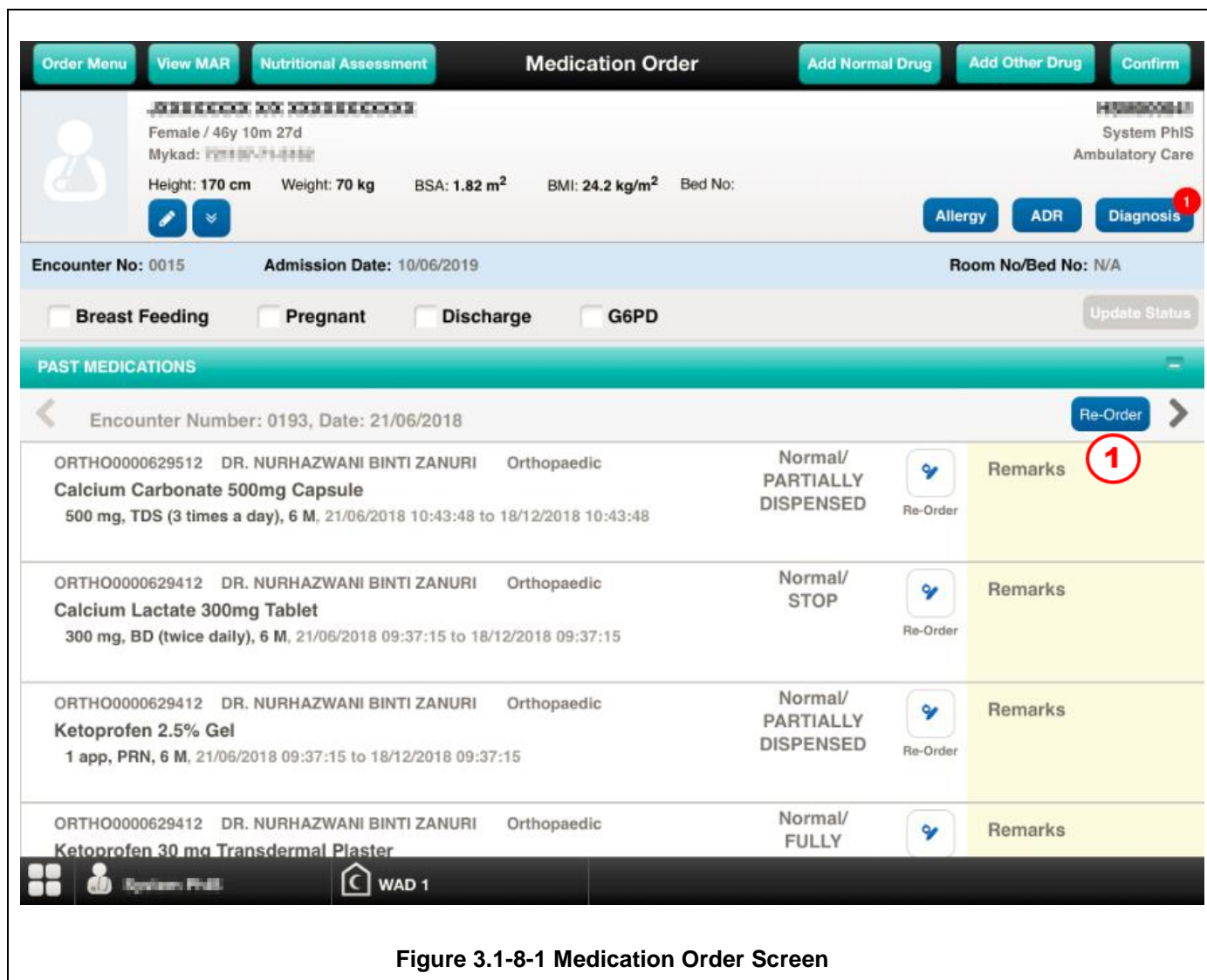
Tap on the **Confirm** button

**Note**

Order after tapering order type/status will change the order as Discharged Order

### 3.1.8 Renew Rx

This function is use by prescriber to renew the drugs from patient's profile.



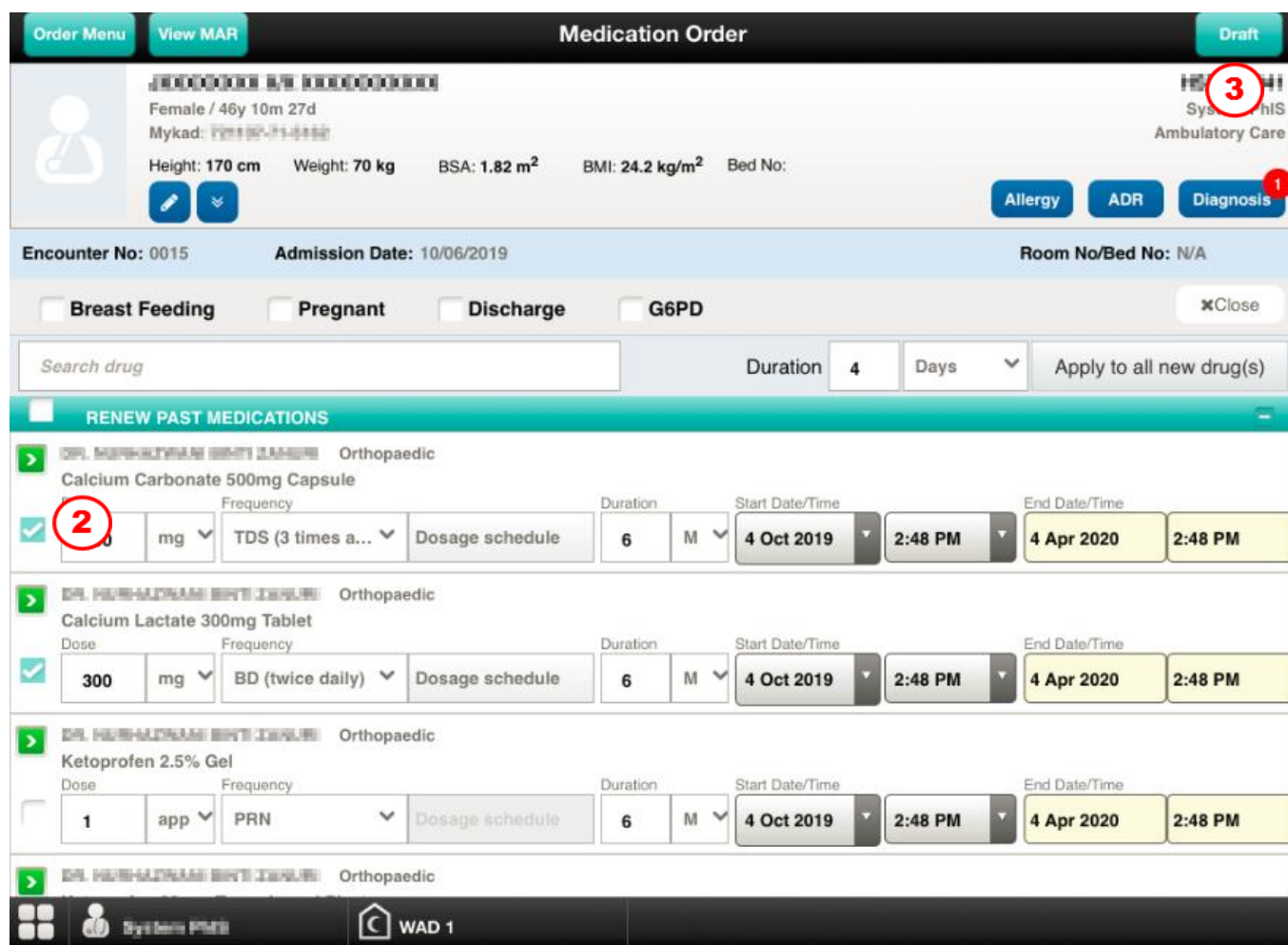
The screenshot displays the 'Medication Order' screen. At the top, there are navigation buttons: 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Medication Order' (active), 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. Below this, a patient profile section shows 'Female / 46y 10m 27d', 'Mykad: [redacted]', 'Height: 170 cm', 'Weight: 70 kg', 'BSA: 1.82 m<sup>2</sup>', 'BMI: 24.2 kg/m<sup>2</sup>', and 'Bed No:'. To the right, it says 'System PhIS Ambulatory Care' and has buttons for 'Allergy', 'ADR', and 'Diagnosis' (with a red '1' badge). Below the profile, 'Encounter No: 0015', 'Admission Date: 10/06/2019', and 'Room No/Bed No: N/A' are shown. There are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', along with an 'Update Status' button. A section titled 'PAST MEDICATIONS' contains a table of previous prescriptions. The first row is highlighted in yellow and has a red '1' badge on the 'Remarks' column. The table columns are: Encounter Number, Date, Drug Name, Dosage/Frequency, Status, and Remarks. The bottom of the screen shows a navigation bar with icons for a grid, a person, 'System PhIS', and 'WAD 1'.

Encounter Number	Date	Drug Name	Dosage/Frequency	Status	Remarks
ORTHO0000629512	21/06/2018	DR. NURHAZWANI BINTI ZANURI	Orthopaedic	Normal/ PARTIALLY DISPENSED	Remarks <b>1</b>
ORTHO0000629412	21/06/2018	DR. NURHAZWANI BINTI ZANURI	Orthopaedic	Normal/ STOP	Remarks
ORTHO0000629412	21/06/2018	DR. NURHAZWANI BINTI ZANURI	Orthopaedic	Normal/ PARTIALLY DISPENSED	Remarks
ORTHO0000629412	21/06/2018	DR. NURHAZWANI BINTI ZANURI	Orthopaedic	Normal/ FULLY	Remarks

Figure 3.1-8-1 Medication Order Screen

## STEP 1


Click on the  button



The screenshot shows the 'Medication Order' screen in the PhIS mobile application. At the top, there are buttons for 'Order Menu', 'View MAR', and 'Draft'. Below this is a patient information section with a profile icon, gender/age (Female / 46y 10m 27d), Mykad, and physical attributes (Height: 170 cm, Weight: 70 kg, BSA: 1.82 m<sup>2</sup>, BMI: 24.2 kg/m<sup>2</sup>, Bed No:). There are also buttons for 'Allergy', 'ADR', and 'Diagnosis'. The encounter details include 'Encounter No: 0015', 'Admission Date: 10/06/2019', and 'Room No/Bed No: N/A'. Below this are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', along with a 'Close' button. A search bar for drugs is present, followed by a 'Duration' dropdown set to '4' days and an 'Apply to all new drug(s)' button. The main section is titled 'RENEW PAST MEDICATIONS' and lists three medications: 'Calcium Carbonate 500mg Capsule', 'Calcium Lactate 300mg Tablet', and 'Ketoprofen 2.5% Gel'. Each medication entry has a green checkmark in a box (labeled with a red circle '2'), a dose dropdown, a frequency dropdown, a dosage schedule dropdown, a duration dropdown, and start/end date and time fields. The bottom navigation bar includes icons for 'System Profile', 'WAD 1', and other functions.

Figure 3.1-8-2 Medication Profile Screen

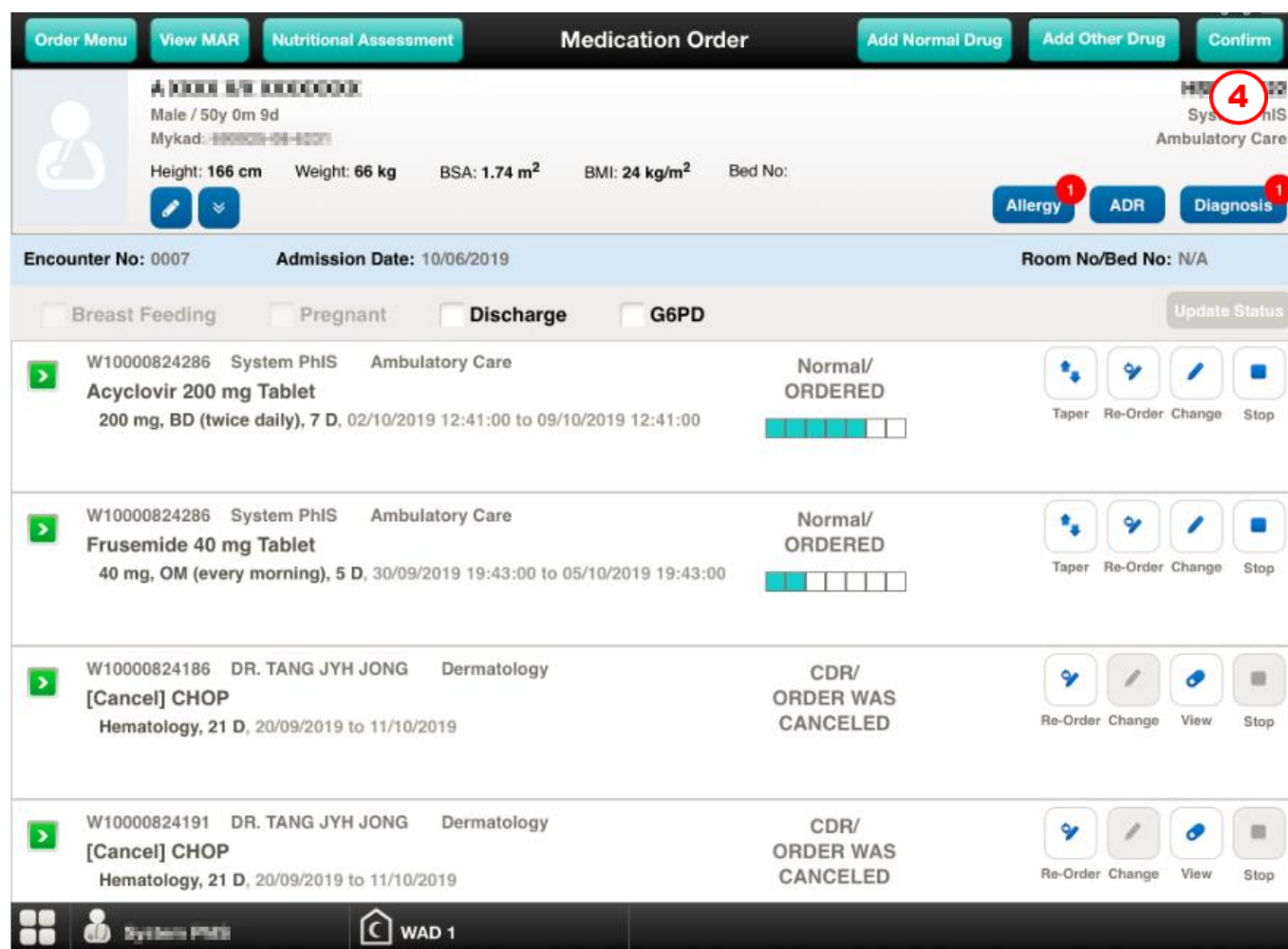
## STEP 2

Tap on the  checkbox to select drugs that want to renew



### STEP 3

Tap on the **Draft** button to renew selected drugs



**Order Menu** **View MAR** **Nutritional Assessment** **Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**

Male / 50y 0m 9d  
Mykad: 880808-08-8808  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:

System PhIS Ambulatory Care

Encounter No: 0007 Admission Date: 10/06/2019 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD **Update Status**

Icon	Order ID	System	Care Type	Drug Name	Dose/Freq	Start/End Date	Status	Actions
	W10000824286	System PhIS	Ambulatory Care	Acyclovir 200 mg Tablet	200 mg, BD (twice daily), 7 D	02/10/2019 12:41:00 to 09/10/2019 12:41:00	Normal/ORDERED	Taper Re-Order Change Stop
	W10000824286	System PhIS	Ambulatory Care	Furosemide 40 mg Tablet	40 mg, OM (every morning), 5 D	30/09/2019 19:43:00 to 05/10/2019 19:43:00	Normal/ORDERED	Taper Re-Order Change Stop
	W10000824186	DR. TANG JYH JONG	Dermatology	[Cancel] CHOP	Hematology, 21 D	20/09/2019 to 11/10/2019	CDR/ORDER WAS CANCELED	Re-Order Change View Stop
	W10000824191	DR. TANG JYH JONG	Dermatology	[Cancel] CHOP	Hematology, 21 D	20/09/2019 to 11/10/2019	CDR/ORDER WAS CANCELED	Re-Order Change View Stop

**WAD 1**

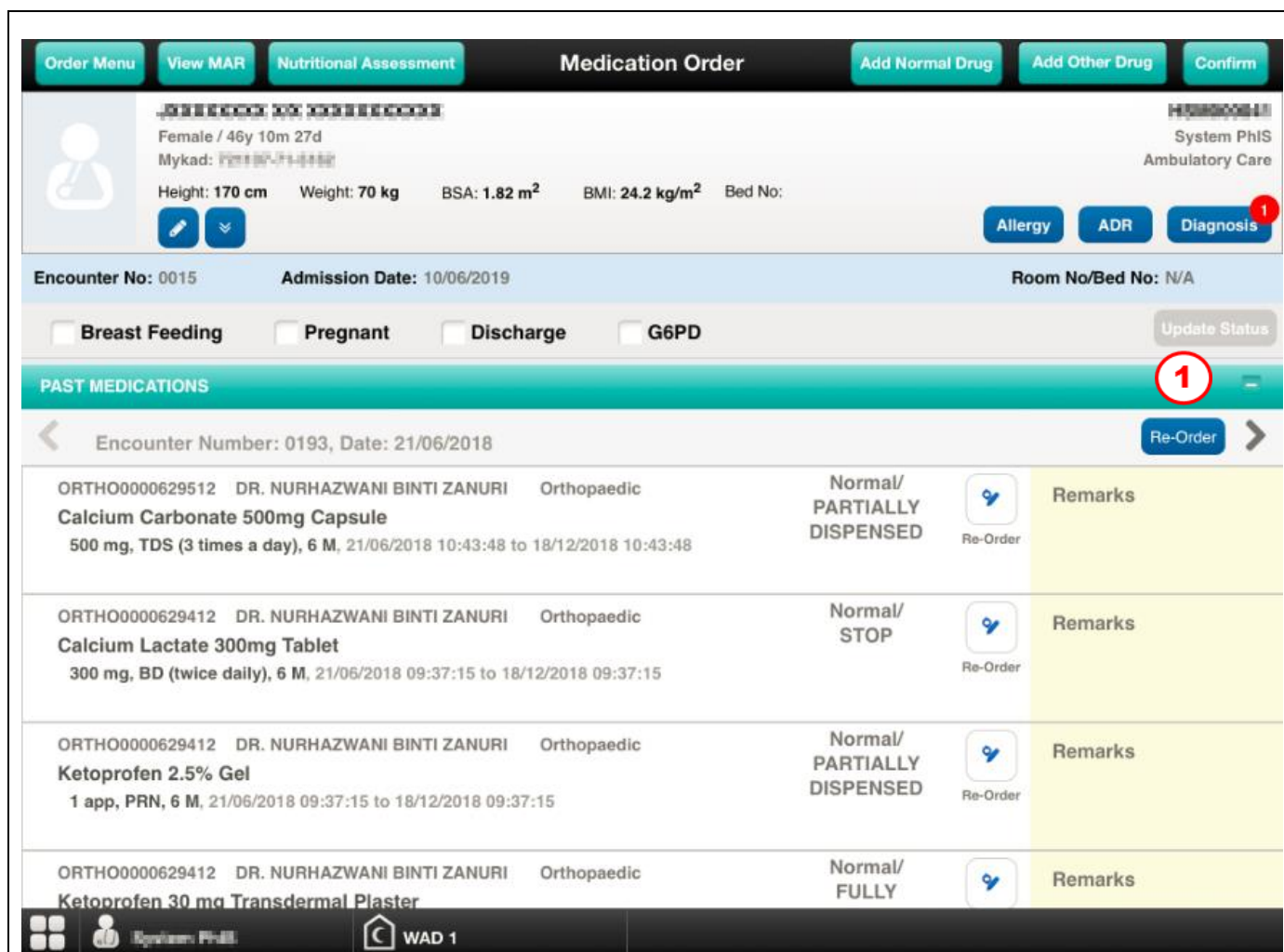
Figure 3.1-8-3 Normal Order Screen

### STEP 4




Tap on the **Confirm** button to confirm and send order to the pharmacy

### 3.1.9 Renew RX With Different Duration

This function is use by prescriber to renew the drugs from patient's profile with new duration.



**Order Menu** **View MAR** **Nutritional Assessment** **Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**

Female / 46y 10m 27d  
Mykad:   
Height: 170 cm Weight: 70 kg BSA: 1.82 m<sup>2</sup> BMI: 24.2 kg/m<sup>2</sup> Bed No:  
 

System PhIS  
Ambulatory Care





**Allergy** **ADR** **Diagnosis** <sup>1</sup>

Encounter No: 0015 Admission Date: 10/06/2019 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD **Update Status**

**PAST MEDICATIONS** <sup>1</sup>

Encounter Number: 0193, Date: 21/06/2018 **Re-Order**

ORTHO0000629512 DR. NURHAZWANI BINTI ZANURI Orthopaedic <b>Calcium Carbonate 500mg Capsule</b> 500 mg, TDS (3 times a day), 6 M, 21/06/2018 10:43:48 to 18/12/2018 10:43:48	Normal/ PARTIALLY DISPENSED	 Re-Order	Remarks
ORTHO0000629412 DR. NURHAZWANI BINTI ZANURI Orthopaedic <b>Calcium Lactate 300mg Tablet</b> 300 mg, BD (twice daily), 6 M, 21/06/2018 09:37:15 to 18/12/2018 09:37:15	Normal/ STOP	 Re-Order	Remarks
ORTHO0000629412 DR. NURHAZWANI BINTI ZANURI Orthopaedic <b>Ketoprofen 2.5% Gel</b> 1 app, PRN, 6 M, 21/06/2018 09:37:15 to 18/12/2018 09:37:15	Normal/ PARTIALLY DISPENSED	 Re-Order	Remarks
ORTHO0000629412 DR. NURHAZWANI BINTI ZANURI Orthopaedic <b>Ketoprofen 30 mg Transdermal Plaster</b>	Normal/ FULLY	 Re-Order	Remarks




  System PhIS  WAD 1

Figure 3.1-9-1 Medication Order Screen

STEP 1

Click on the **Re-Order** button

Order Menu
View MAR
Medication Order
Draft

Female / 46y 10m 27d  
Mykad:

Height: 170 cm Weight: 70 kg BSA: 1.82 m<sup>2</sup> BMI: 24.2 kg/m<sup>2</sup> Bed No:

Encounter No: 0015 Admission Date: 10/06/2019 Room No/Bed No: N/A

☐ Breast Feeding
☐ Pregnant
☐ Discharge
☐ G6PD

Duration **4** Days

**RENEW PAST MEDICATIONS**

Orthopaedic

500mg Carbonate 500mg Capsule

☒ 500 mg TDS (3 times a...) Dosage schedule

Duration 6 M Start Date/Time 4 Oct 2019 2:48 PM End Date/Time 4 Apr 2020 2:48 PM

Orthopaedic

Calcium Lactate 300mg Tablet

☒ 300 mg BD (twice daily) Dosage schedule

Duration 6 M Start Date/Time 4 Oct 2019 2:48 PM End Date/Time 4 Apr 2020 2:48 PM

Orthopaedic

Ketoprofen 2.5% Gel

☐ 1 app PRN Dosage schedule

Duration 6 M Start Date/Time 4 Oct 2019 2:48 PM End Date/Time 4 Apr 2020 2:48 PM

Orthopaedic

Figure 3.1-9-2 Medication Profile Screen

## STEP 2


Enter the new **Duration**



### Note

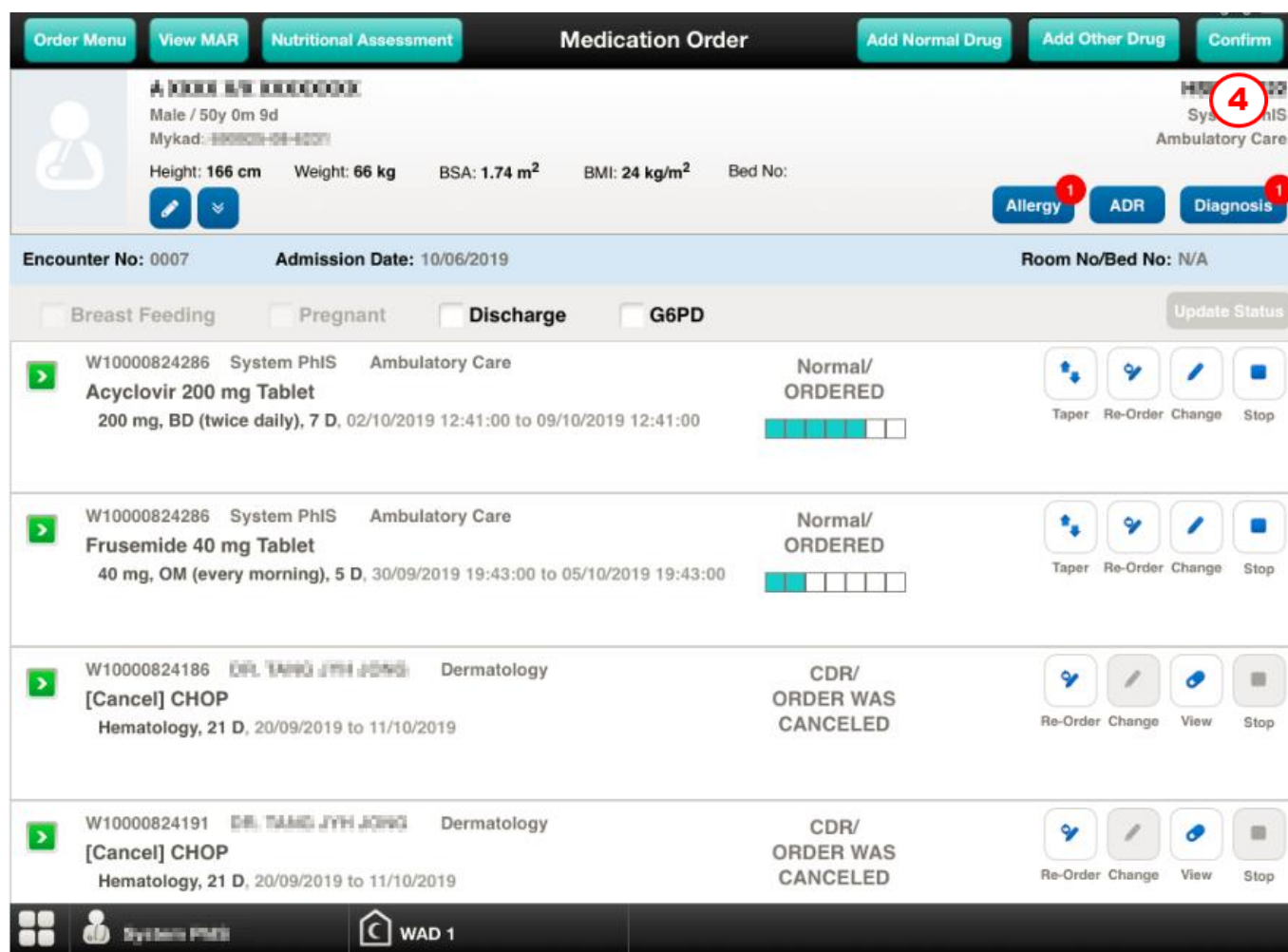
- After entering the duration, user have to click on Apply to all new drugs(s) to insert the new duration. If not, duration remain as previous.
- Besides duration, user may change dosage and frequency.
- User may tap on the **Apply to all new drug(s)** button if entered duration want to apply for all selected drugs

### STEP 3

Tap on the  checkbox to select drugs that want to renew

### STEP 4

Tap on the  button to renew selected drugs



**Medication Order Screen**

**Top Bar:** Order Menu, View MAR, Nutritional Assessment, Medication Order, Add Normal Drug, Add Other Drug, Confirm

**Patient Information:** Male / 50y 0m 9d, Mykad: [redacted], Height: 166 cm, Weight: 66 kg, BSA: 1.74 m<sup>2</sup>, BMI: 24 kg/m<sup>2</sup>, Bed No: [redacted]

**Encounter Details:** Encounter No: 0007, Admission Date: 10/06/2019, Room No/Bed No: N/A

**Medication Orders:**

Order ID	System	Care Type	Medication	Dosage/Freq	Duration	Status	Actions
W10000824286	System PhIS	Ambulatory Care	Acyclovir 200 mg Tablet	200 mg, BD (twice daily), 7 D	02/10/2019 12:41:00 to 09/10/2019 12:41:00	Normal/ ORDERED	Taper, Re-Order, Change, Stop
W10000824286	System PhIS	Ambulatory Care	Furosemide 40 mg Tablet	40 mg, OM (every morning), 5 D	30/09/2019 19:43:00 to 05/10/2019 19:43:00	Normal/ ORDERED	Taper, Re-Order, Change, Stop
W10000824186	DR. TANG JTH JONG	Dermatology	[Cancel] CHOP	Hematology, 21 D	20/09/2019 to 11/10/2019	CDR/ ORDER WAS CANCELED	Re-Order, Change, View, Stop
W10000824191	DR. TANG JTH JONG	Dermatology	[Cancel] CHOP	Hematology, 21 D	20/09/2019 to 11/10/2019	CDR/ ORDER WAS CANCELED	Re-Order, Change, View, Stop

**Bottom Bar:** System PhIS, WAD 1

Figure 3.1-9-3 Normal Order Screen

### STEP 4

Tap on the  button to confirm and send order to the pharmacy

### 3.1.10 Change

Prescriber is allowed to modify Dosage, Frequency and Duration.

Order Menu
View MAR
Nutritional Assessment
Medication Order
Add Normal Drug
Add Other Drug
Confirm

Male / 50y 0m 9d  
Mykad:

Height: 166 cm   Weight: 66 kg   BSA: 1.74 m<sup>2</sup>   BMI: 24 kg/m<sup>2</sup>   Bed No:

Allergy <sup>1</sup>   ADR   Diagnosis <sup>1</sup>

Encounter No: 0007   Admission Date: 10/06/2019   Room No/Bed No: N/A


☐ Breast Feeding   ☐ Pregnant   ☐ Discharge   ☐ G6PD   1 Status

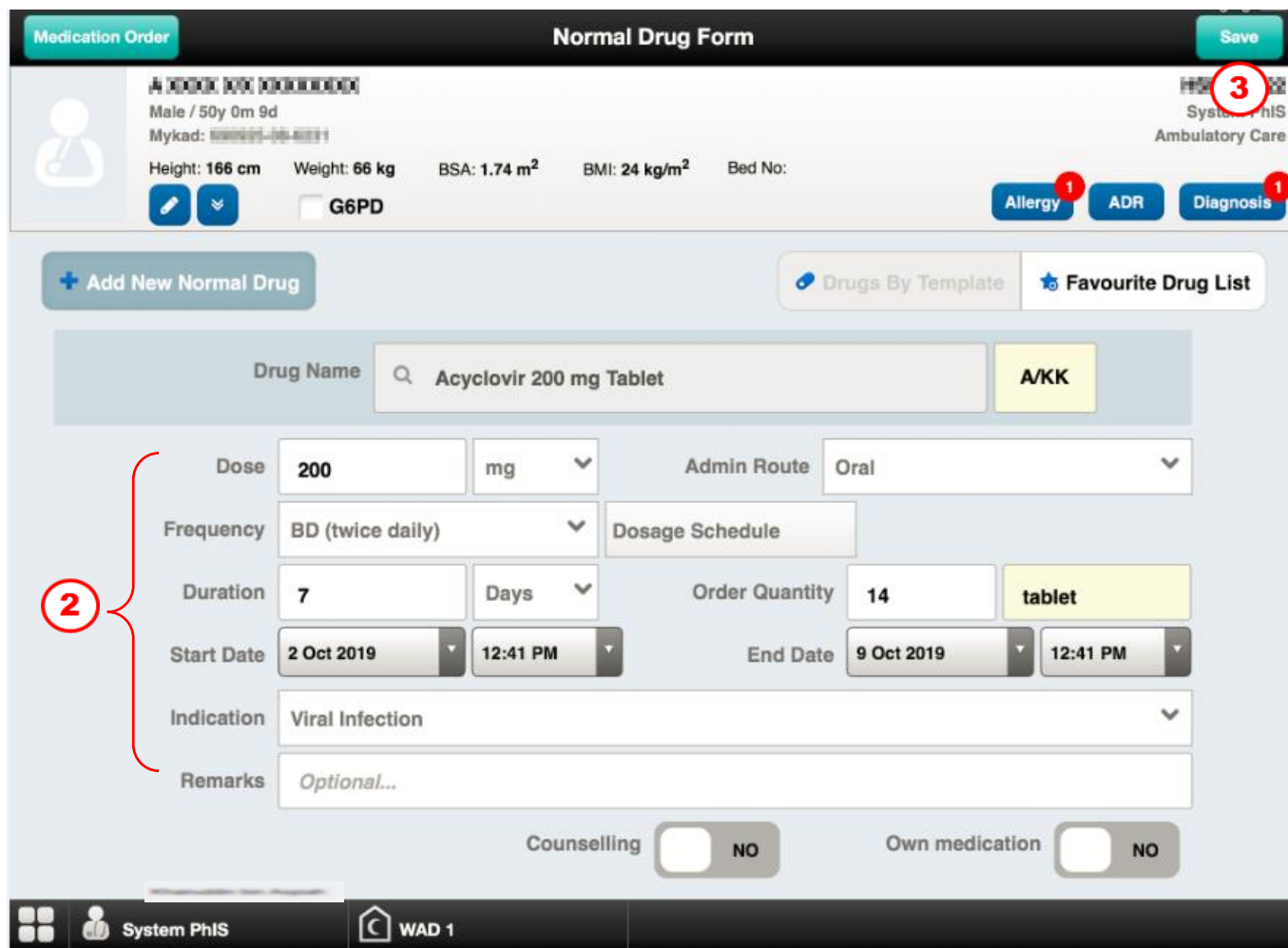
W10000824286   System PhIS   Ambulatory Care <b>Acyclovir 200 mg Tablet</b> 200 mg, BD (twice daily), 7 D, 02/10/2019 12:41:00 to 09/10/2019 12:41:00	Normal/ ORDERED 	 Taper   Re-Order   Change   Stop
W10000824286   System PhIS   Ambulatory Care <b>Frusemide 40 mg Tablet</b> 40 mg, OM (every morning), 5 D, 30/09/2019 19:43:00 to 05/10/2019 19:43:00	Normal/ ORDERED 	 Taper   Re-Order   Change   Stop
W10000824186   DR. TANG JYH JONG   Dermatology <b>[Cancel] CHOP</b> Hematology, 21 D, 20/09/2019 to 11/10/2019	CDR/ ORDER WAS CANCELED	 Re-Order   Change   View   Stop
W10000824191   DR. TANG JYH JONG   Dermatology <b>[Cancel] CHOP</b> Hematology, 21 D, 20/09/2019 to 11/10/2019	CDR/ ORDER WAS CANCELED	 Re-Order   Change   View   Stop

System PhIS   WAD 1

Figure 3.1-10-1 Medication Order Screen

**STEP 1**

Tap on the  button to modify the drug details



**Medication Order** **Normal Drug Form** **Save**

Male / 50y 0m 9d  
Mykad:   
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:   
G6PD   
Allergy **1** ADR **1** Diagnosis **1**

**+ Add New Normal Drug** **Drugs By Template** **Favourite Drug List**

Drug Name **Acyclovir 200 mg Tablet** **A/KK**

**2** { Dose **200** **mg** Admin Route **Oral**  
Frequency **BD (twice daily)** Dosage Schedule  
Duration **7** **Days** Order Quantity **14** **tablet**  
Start Date **2 Oct 2019** **12:41 PM** End Date **9 Oct 2019** **12:41 PM**  
Indication **Viral Infection**  
Remarks **Optional...**

Counselling **NO** Own medication **NO**

**System PhIS** **WAD 1**

Figure 3.1-10-2 Medication Profile Screen

**STEP 2**

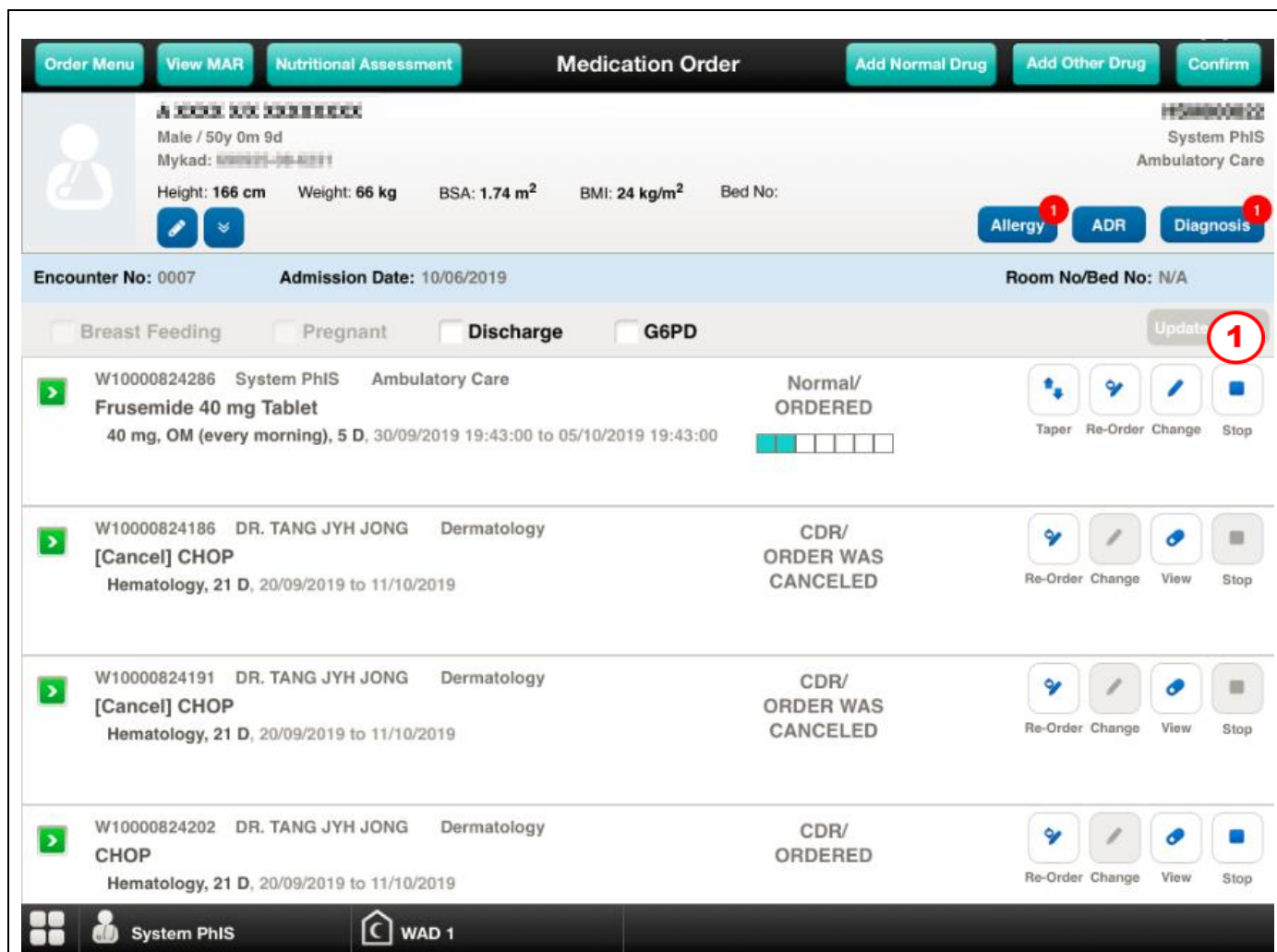
Change **Dose**, **Frequency**, and **Duration**

### STEP 3

Tap on the  button to save the changes

### 3.1.11 Stop

Prescriber is allowed to stop current medication.



The screenshot displays the Medication Order screen in the PhIS mobile application. At the top, there is a navigation bar with buttons: Order Menu, View MAR, Nutritional Assessment, Medication Order (active), Add Normal Drug, Add Other Drug, and Confirm. Below the navigation bar, patient information is shown: Male / 50y 0m 9d, Mykad: [redacted], Height: 166 cm, Weight: 66 kg, BSA: 1.74 m<sup>2</sup>, BMI: 24 kg/m<sup>2</sup>, and Bed No: [redacted]. There are also buttons for Allergy, ADR, and Diagnosis, each with a red '1' indicating a notification. The main section shows a list of medication orders. The first order is for Frusemide 40 mg Tablet, 40 mg, OM (every morning), 5 D, 30/09/2019 19:43:00 to 05/10/2019 19:43:00, with a status of Normal/ORDERED. The second and third orders are for [Cancel] CHOP, Hematology, 21 D, 20/09/2019 to 11/10/2019, with a status of CDR/ORDER WAS CANCELED. The fourth order is for CHOP, Hematology, 21 D, 20/09/2019 to 11/10/2019, with a status of CDR/ORDERED. Each order has a set of action buttons: Taper, Re-Order, Change, and Stop. A red circle with the number '1' is placed over the Stop button of the first order. At the bottom, there is a footer bar with System PhIS and WAD 1.

Figure 3.1-11-1 Medication Order Screen

### STEP 1

Click on the  button to stop the drug

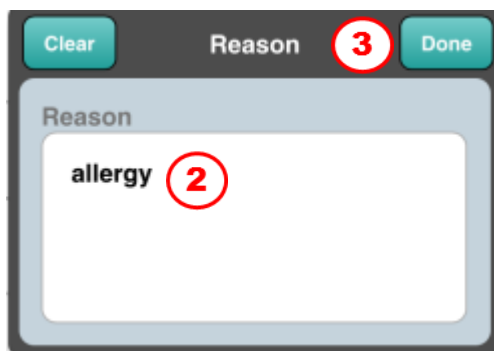


Figure 3.1-11-2 Stop Reason screen


### STEP 2

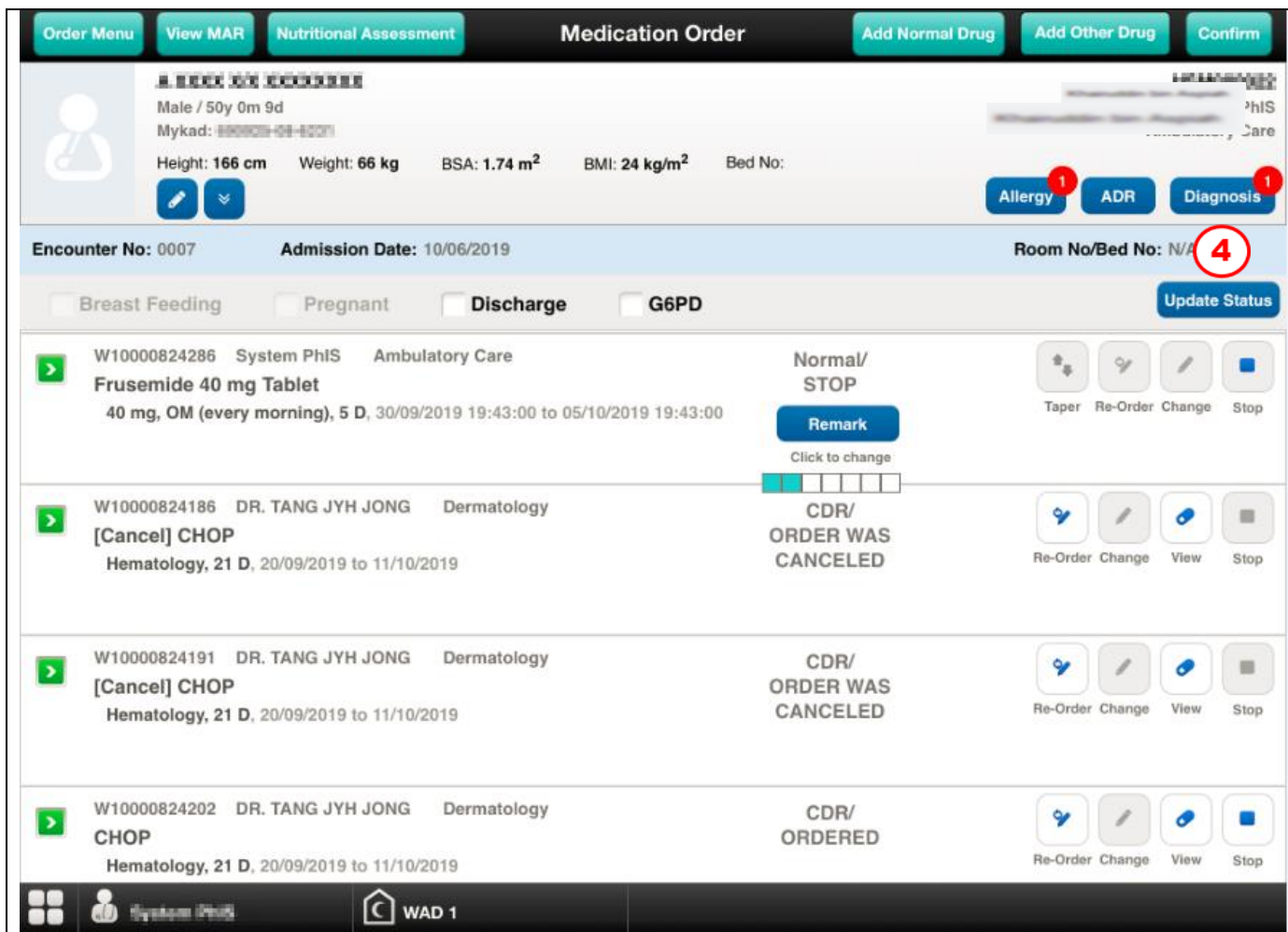
Enter reason in the displayed window as per Figure 3.1-11-2

#### **Note**

*Stop Remarks is not mandatory*

### STEP 3

Tap on  to update stop remarks.



**Order Menu** **View MAR** **Nutritional Assessment** **Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**

Male / 50y 0m 9d  
Mykad: 880001-04-1001  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:

Encounter No: 0007 Admission Date: 10/06/2019 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD **Update Status**

Drug ID	System	Care Type	Drug Name	Dose	Frequency	Start Date	End Date	Status	Actions
W10000824286	System PhIS	Ambulatory Care	Frusumide 40 mg Tablet	40 mg, OM	(every morning), 5 D	30/09/2019 19:43:00	05/10/2019 19:43:00	Normal/ STOP	Remark, Taper, Re-Order, Change, Stop
W10000824186	DR. TANG JYH JONG	Dermatology	[Cancel] CHOP					CDR/ ORDER WAS CANCELED	Re-Order, Change, View, Stop
W10000824191	DR. TANG JYH JONG	Dermatology	[Cancel] CHOP					CDR/ ORDER WAS CANCELED	Re-Order, Change, View, Stop
W10000824202	DR. TANG JYH JONG	Dermatology	CHOP					CDR/ ORDERED	Re-Order, Change, View, Stop

System PhIS WAD 1

Figure 3.1-11-2 Medication Profile creen

#### STEP 4

Tap on the **Update Status** to stop the drug.

#### Note

- Once stop, record will appear In Past Medication list
- Order status will be changed to Stop once tap on the update status

### 3.2 Order Endorsement

Order endorsement is to notify prescriber on prescription changes made by pharmacist upon confirmation by the prescriber.



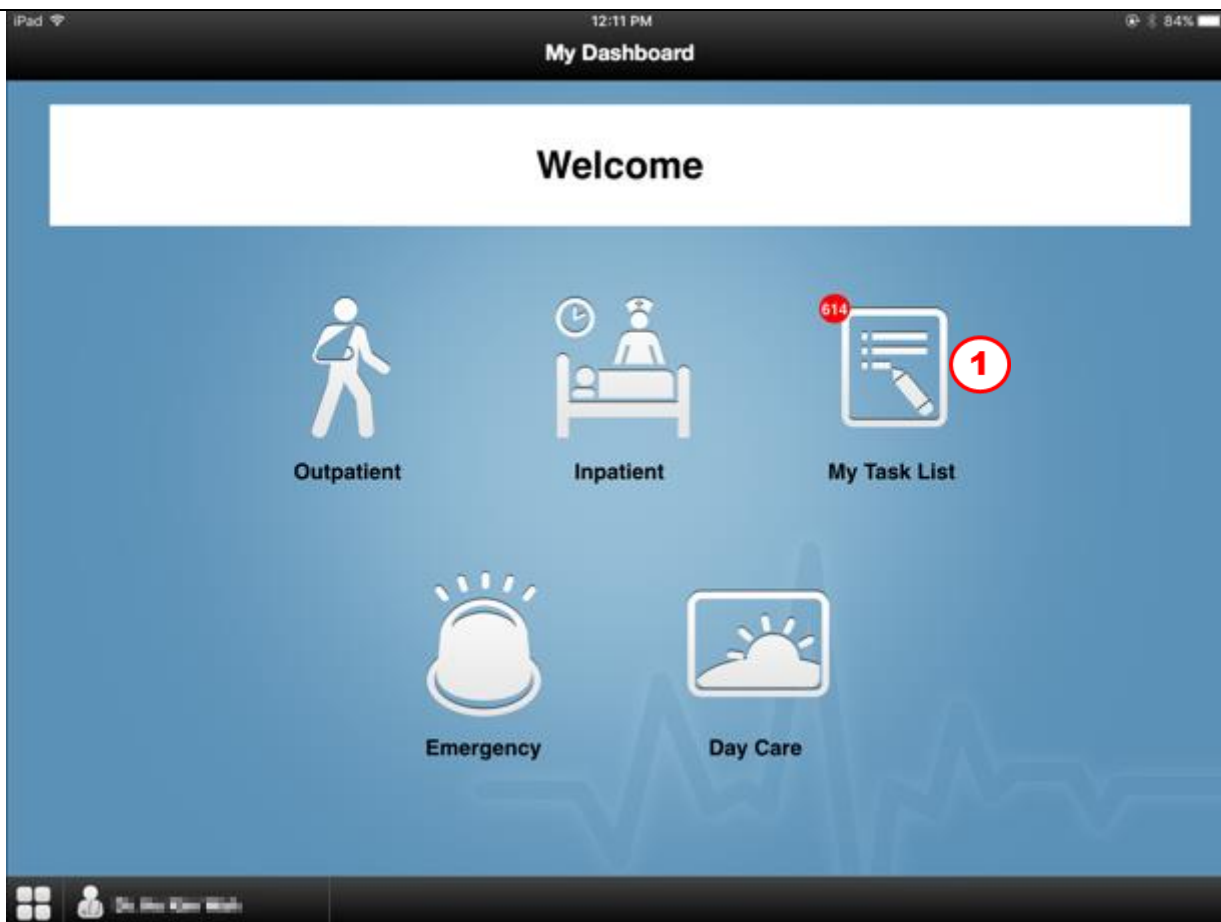


Figure 3.2-1 Home Page Listing Screen

#### STEP 1

Tap on **My Task List** menu

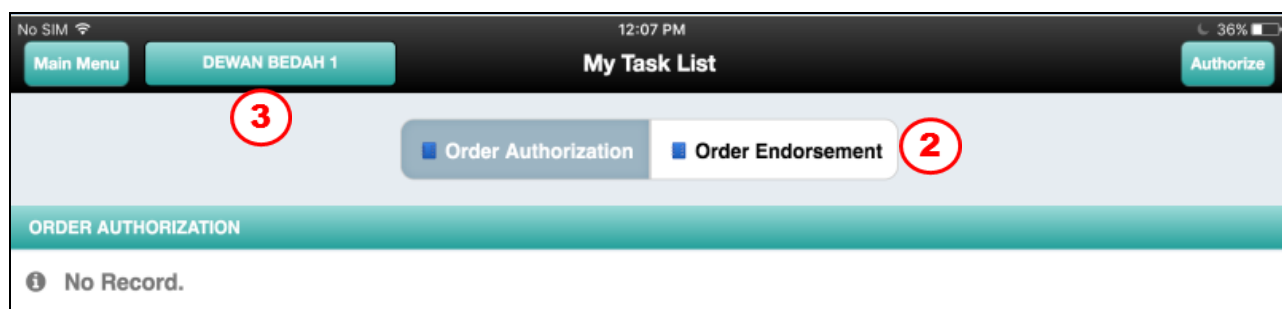


Figure 3.2-2 Endorsement Listing Screen

#### STEP 2

Tap on **Order Endorsement** tab to search endorsement listing

#### STEP 3

Tap on the location button e.g **DEWAN BEDAH 1** to search patient

Main Menu

My Task List

Endorse

Order Authorization

Order Endorsement

5

ORDER ENDORSEMENT

MRN/Patient Name	Drug Name and Dosage Details	Order By	
<input type="checkbox"/> HSM000001 ZXXXXXX BIN XXXXX M / 59 yr	Methadone 5mg/ml Syrup 5 mg, OD (once daily), Oral	System PhIS	<input type="button" value="View"/>
<input type="checkbox"/> HSM174291 AXXXXX XXXXX XXXXXVVVVV F / 34 yr	Capecitabine 500mg Tablet 1500mg, 1025mg, BD (twice daily), Oral	DR. DING MIN TAT	<input type="button" value="View"/>
<div>4</div> <input type="checkbox"/> HSM016135 MXXXXXXXX XXXXX X XXXXX XXX... M / 23 yr	Vincristine Sulphate 1mg Injection 55.68 mg, Once every 2 weeks, Intravenous Bolus	System PhIS	<input type="button" value="View"/>
<input type="checkbox"/> HSM025375 NXXXX XXXXX XXXXX XXXX XXX... F / 33 yr	Sodium Pertechnetate (Tc-99m) 15 Mbq	System PhIS	<input type="button" value="View"/>





System PhIS

Figure 3.2-3 Endorsement Screen

**Note**

- Search result of patient record list will be displayed:
  - MRN / Patient Name
  - Drug Name / Dosage Details
  - Order By

**STEP 4**

Tap on the ☒ checkbox on selected patient

**STEP 5**

Tap on the **Endorse** button to proceed endorsement

**Note**

User may click on the  button to see original value and intervened prescription as per Figure 3.2.-4



### 3.3 Order Authorisation

This function is used by specialist or authorised person to approve list A/ A\*/ A/KK drug that requires authorisation.

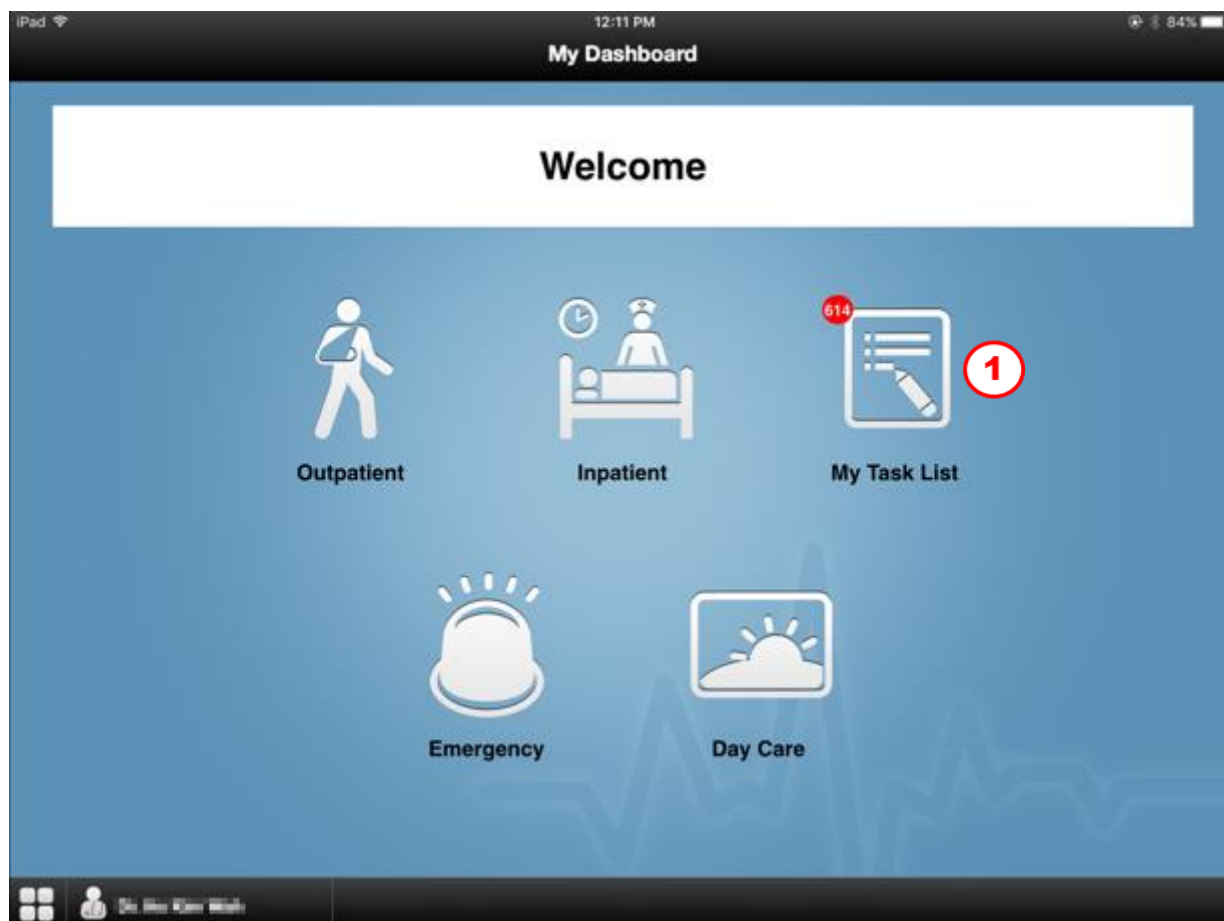


Figure 3.3-1 Listing Screen

#### STEP 1

Tap on the **My Task List** menu

Main Menu
KLINIK PAKAR PERUBATAN

My Task List

Reject
Authorize

Order Authorization
Order Endorsement

ORDER AUTHORIZATION





MRN/Patient Name	Drug Name and Dosage Details	Order Type	
<input type="checkbox"/> HPSF00054178 Male / 63 yr	Hydroxyurea 500 mg Capsule 500 mg, OD (once daily), Oral	Normal	 View
<input type="checkbox"/> HPSF00054178 Male / 63 yr	Alprazolam 0.5 mg Tablet 0.5 mg, ON (every night), Oral	Normal	 View
<input type="checkbox"/> HPSF00054178 Male / 63 yr	Hydroxyurea 500 mg Capsule 500mg, OD (once daily), Oral	Normal	 View
<input checked="" type="checkbox"/> HPSF00054178 Male / 63 yr	Alfacalcidol 0.25mcg Capsule 0.75 mcg, TDS (3 times a day), Oral	Normal	 View

Figure 3.3-1 Order Authorisation Screen

**Note**

- Search result of patient record list will be displayed:
  - MRN / Patient Name
  - Drug Name / Dosage Details
  - Order By

**STEP 2**

Tap on the ☒ checkbox on selected patient

**STEP 3**

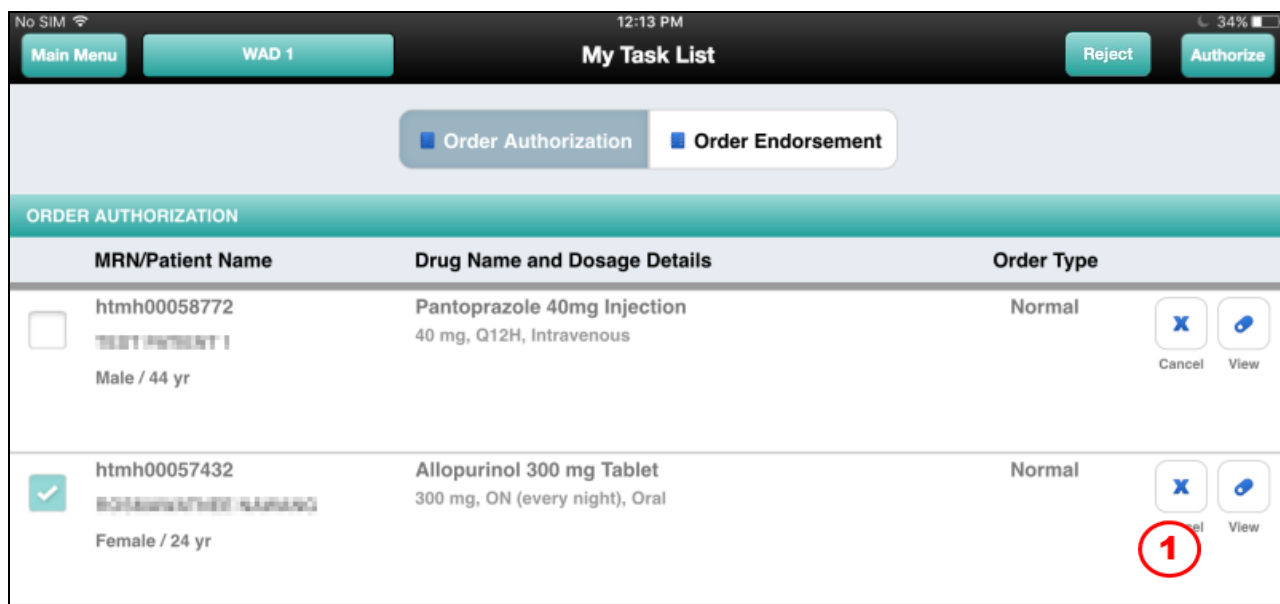
Tap on the **Authorize** button

**Note**

User able to reject the transaction by using click on the **Reject** button

### 3.3.1 Cancel Order Authorisation

This function is used by specialist or authorised person to cancel list A/ A\*/ A/KK drug that requires authorisation.







MRN/Patient Name	Drug Name and Dosage Details	Order Type	Cancel	View
htmh00058772 Male / 44 yr	Pantoprazole 40mg Injection 40 mg, Q12H, Intravenous	Normal		
htmh00057432 Female / 24 yr	Allopurinol 300 mg Tablet 300 mg, ON (every night), Oral	Normal		

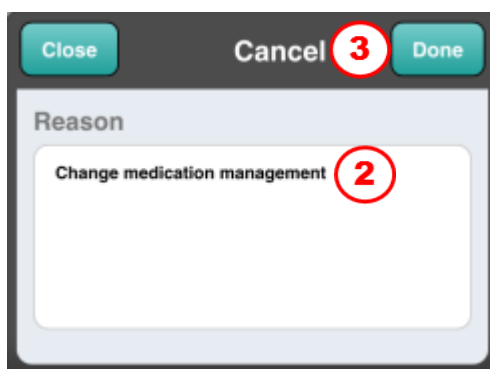
Figure 3.3-1 Order Authorisation Screen

#### Note

Repeat **step 1** till **step 2** as per section 3.4 authorisation

#### STEP 1

Tap on the  button to cancel the drugs




3.4-1 Order Authorisation Screen


#### STEP 2

Enter cancellation remark

#### STEP 3

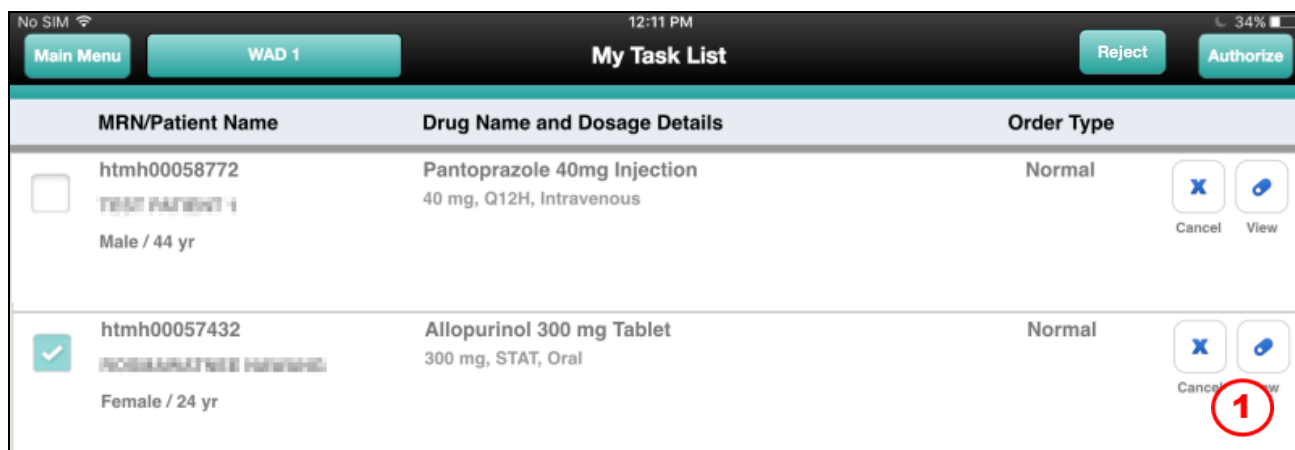
Tap on the  button to confirm the cancellation

#### Note

User able to reject the transaction by using click on the  button

### 3.3.2 Modify and Authorise

This function is used by specialist or authorised person to modify and authorise list A/ A\*/ A/KK drug that requires authorisation.



MRN/Patient Name	Drug Name and Dosage Details	Order Type	Actions
htmh00058772 Male / 44 yr	Pantoprazole 40mg Injection 40 mg, Q12H, Intravenous	Normal	Cancel View
htmh00057432 Female / 24 yr	Allopurinol 300 mg Tablet 300 mg, STAT, Oral	Normal	Cancel View <b>1</b>

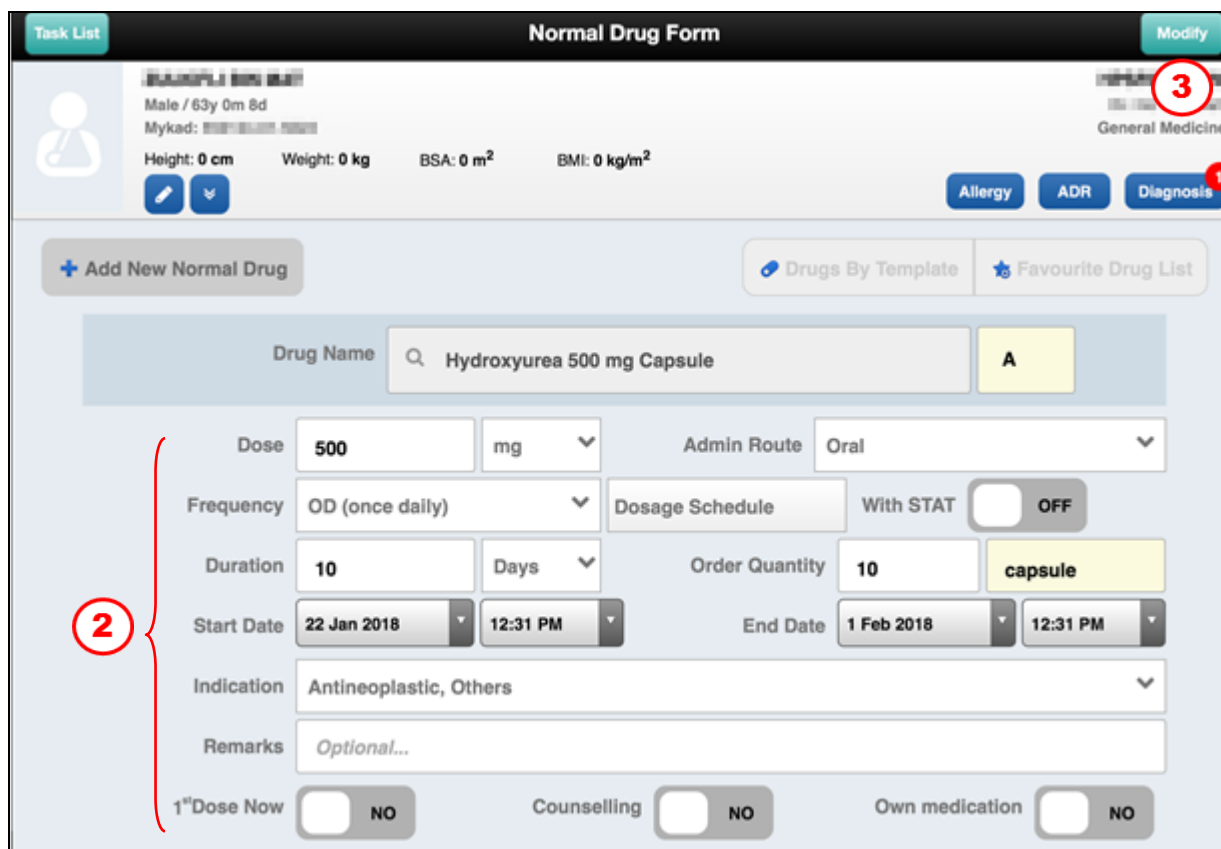
#### 3.3.2-1 Order Authorisation Screen

##### Note

Repeat **step 1** till **step 2** as per section 3.4 authorisation

##### STEP 1

Tap on the  button to view the drug



**Task List** **Normal Drug Form** **Modify**

Male / 63y 0m 8d  
Mykad:   
Height: 0 cm Weight: 0 kg BSA: 0 m<sup>2</sup> BMI: 0 kg/m<sup>2</sup>

General Medicine

Allergy ADR Diagnosis **1**

+ Add New Normal Drug Drugs By Template Favourite Drug List

Drug Name  **A**

Dose  mg Admin Route

Frequency  Dosage Schedule With STAT ☐ OFF

Duration  Days Order Quantity  capsule

Start Date   End Date

Indication

Remarks

1<sup>st</sup> Dose Now ☐ NO Counselling ☐ NO Own medication ☐ NO

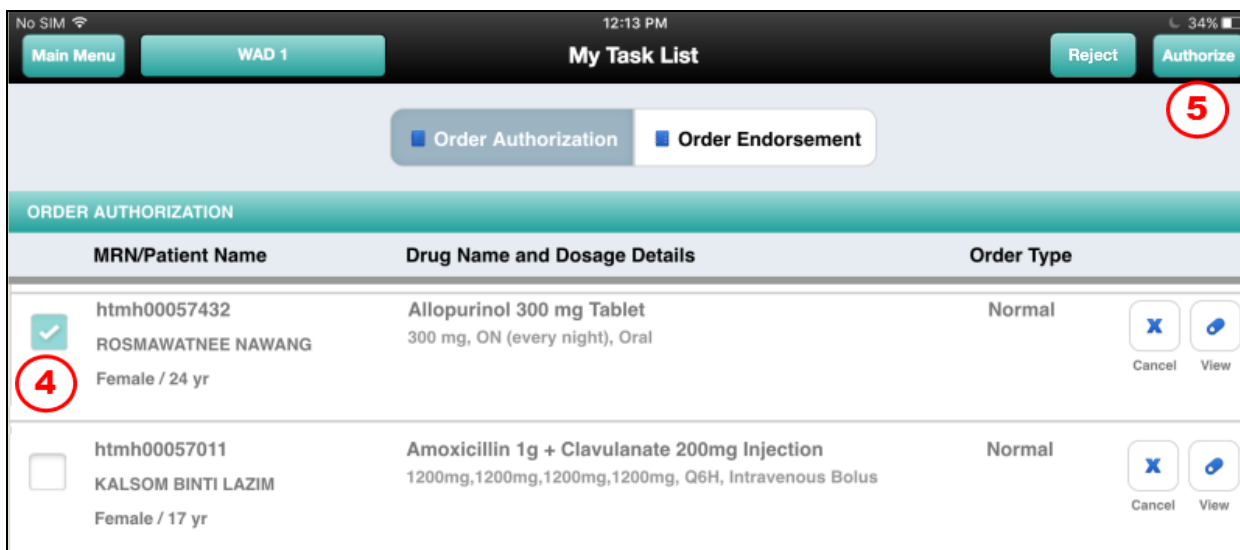
#### 3.3.2-2 Order Authorisation Screen

## STEP 2

Change details as required

## STEP 3

Tap on the **Modify** button



MRN/Patient Name	Drug Name and Dosage Details	Order Type
<input checked="" type="checkbox"/> htmh00057432 ROSMAWATNEE NAWANG Female / 24 yr	Allopurinol 300 mg Tablet 300 mg, ON (every night), Oral	Normal Cancel View
<input type="checkbox"/> htmh00057011 KALSOM BINTI LAZIM Female / 17 yr	Amoxicillin 1g + Clavulanate 200mg Injection 1200mg, 1200mg, 1200mg, 1200mg, Q6H, Intravenous Bolus	Normal Cancel View

### 3.3.2-3 Order Authorisation Screen

## STEP 4

Tap on the ☒ checkbox on selected patient

## STEP 5

Tap on the **Authorize** button

### Note

User able to reject the transaction by using click on the **Reject** button

### 3.4 HOD Authorisation

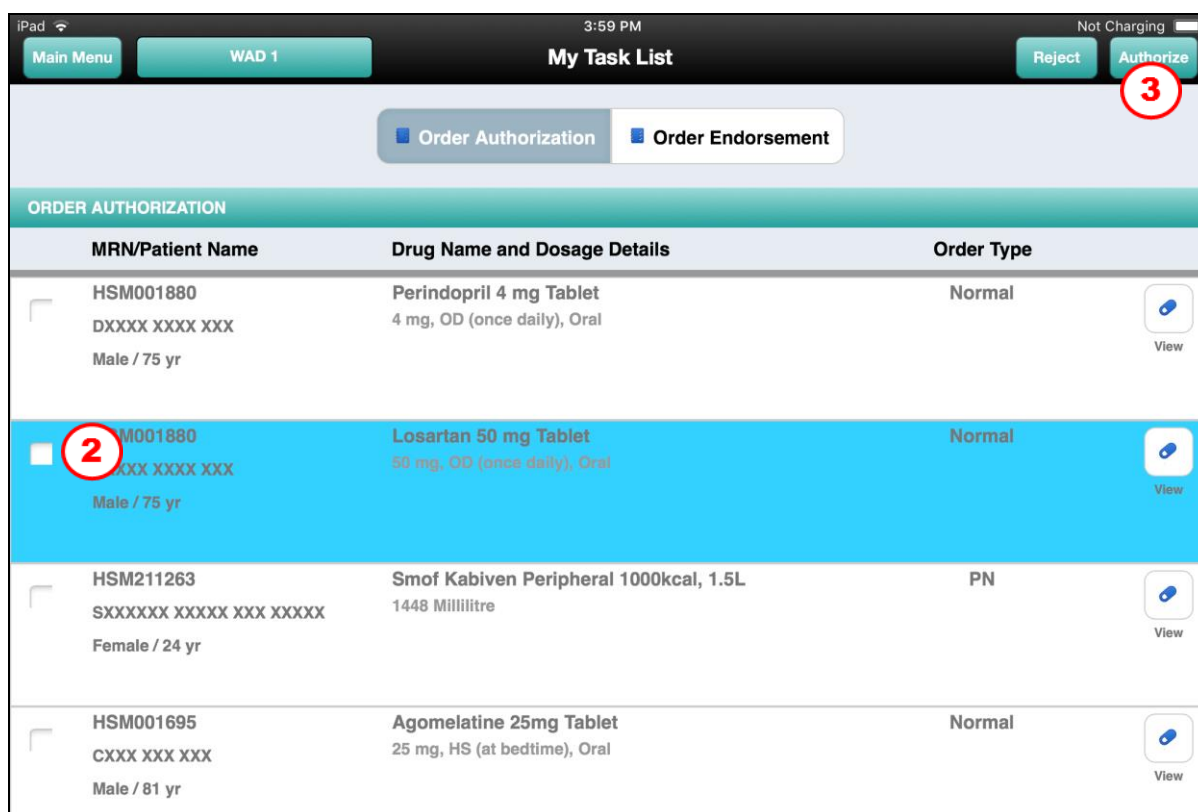
This function is used by HOD to approve list A/ A\*/ A/KK drug that requires authorisation.







Figure 3.4-1 Listing Screen

#### STEP 1

Tap on the **My Task List** menu



MRN/Patient Name	Drug Name and Dosage Details	Order Type	
<input type="checkbox"/> HSM001880 DXXXX XXXX XXX Male / 75 yr	Perindopril 4 mg Tablet 4 mg, OD (once daily), Oral	Normal	 View
<input checked="" type="checkbox"/> HSM001880 DXXXX XXXX XXX Male / 75 yr	Losartan 50 mg Tablet 50 mg, OD (once daily), Oral	Normal	 View
<input type="checkbox"/> HSM211263 SXXXXXX XXXXX XXX XXXXX Female / 24 yr	Smof Kabiven Peripheral 1000kcal, 1.5L 1448 Millilitre	PN	 View
<input type="checkbox"/> HSM001695 CXXX XXX XXX Male / 81 yr	Agomelatine 25mg Tablet 25 mg, HS (at bedtime), Oral	Normal	 View

**Figure 3.4-2 Order Authorisation Screen**

**Note**

- Search result of patient record list will be displayed:
  - MRN / Patient Name
  - Drug Name / Dosage Details
  - Order By
- Drug that require HOD Authorisation that highlight in blue color display on the list.
- If user with normal roles authorisation login, they able to see all drugs in the list but not able to authorise the HOD Drug. The Authorise checkbox for drug highlighted in blue will be disable.
- If user with HOD roles authorisation login, Authorise checkbox will be enable and they can authorised all drugs on the same time.


**STEP 2**

Tap on the  checkbox on selected patient

**STEP 3**

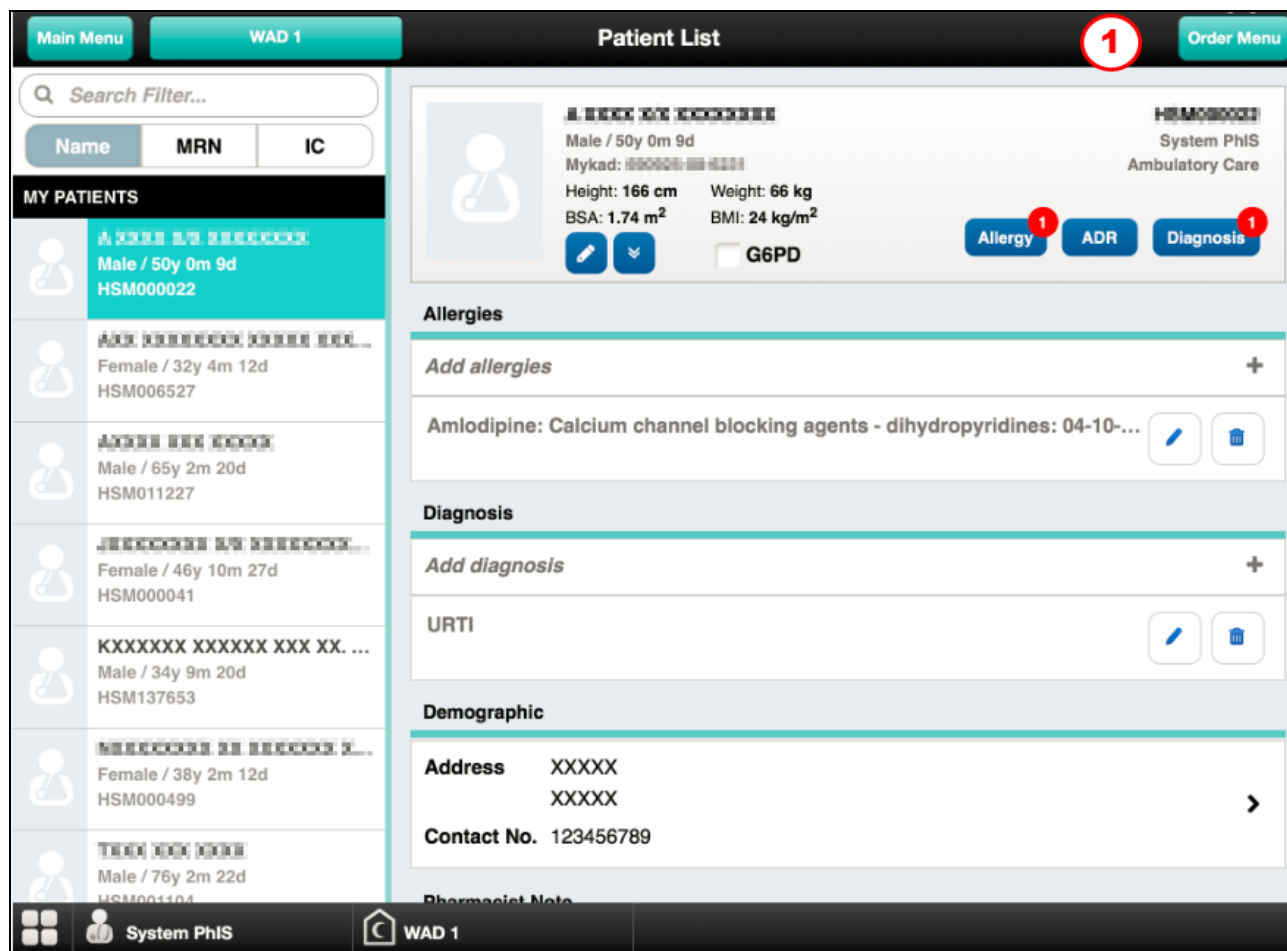
Tap on the  button

**Note**

User able to reject the transaction by using click on the  button.

## 4.0 Therapeutic Drug Monitoring

TDM Order screen allows Prescriber to place TDM Services order. The order will be sent to Pharmacist for verification and reporting.



**Main Menu** **WAD 1** **Patient List** **1** **Order Menu**

Search Filter...

Name MRN IC

**MY PATIENTS**

- Male / 50y 0m 9d  
HSM000022
- Female / 32y 4m 12d  
HSM006527
- Male / 65y 2m 20d  
HSM011227
- Female / 46y 10m 27d  
HSM000041
- Male / 34y 9m 20d  
HSM137653
- Female / 38y 2m 12d  
HSM000499
- Male / 76y 2m 22d  
HSM001104

**Male / 50y 0m 9d**  
Mykad:   
Height: 166 cm Weight: 66 kg  
BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup>  
G6PD

**Allergies**

Add allergies

Amlodipine: Calcium channel blocking agents - dihydropyridines: 04-10-...

**Diagnosis**

Add diagnosis

URTI

**Demographic**

Address XXXXX  
XXXXX

Contact No. 123456789

Pharmacist Note

**System PhIS** **WAD 1**

4.0-1 Patient Listing Screen

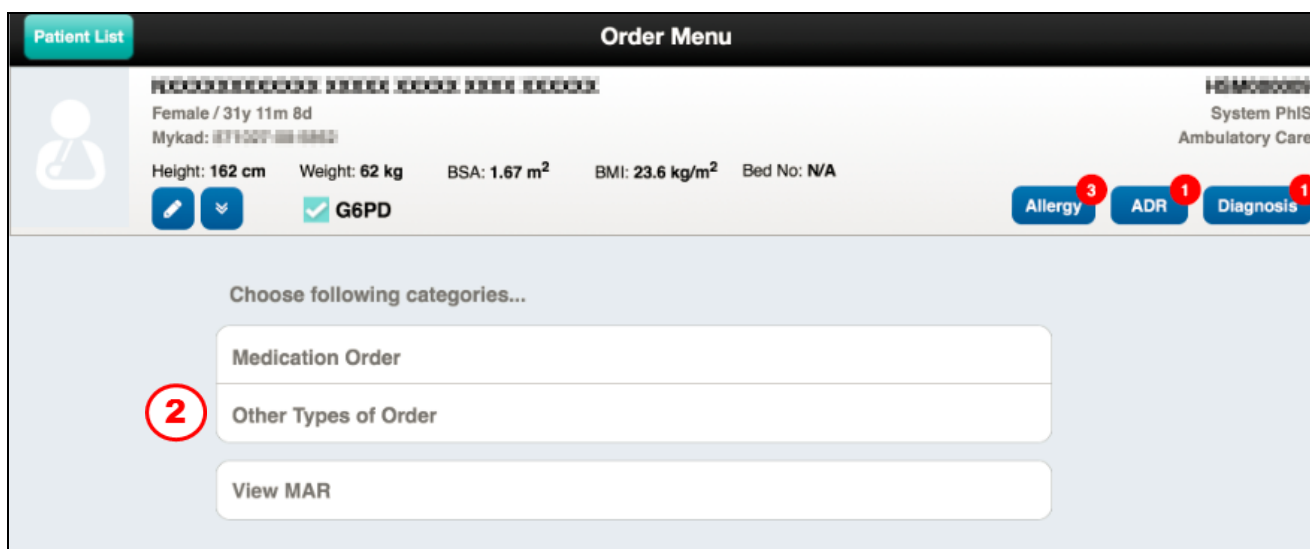
### Note

Repeat **step 1** until **step 3** as 3.1.1 record allergy section

### STEP 1

Tap on the **Order Menu**



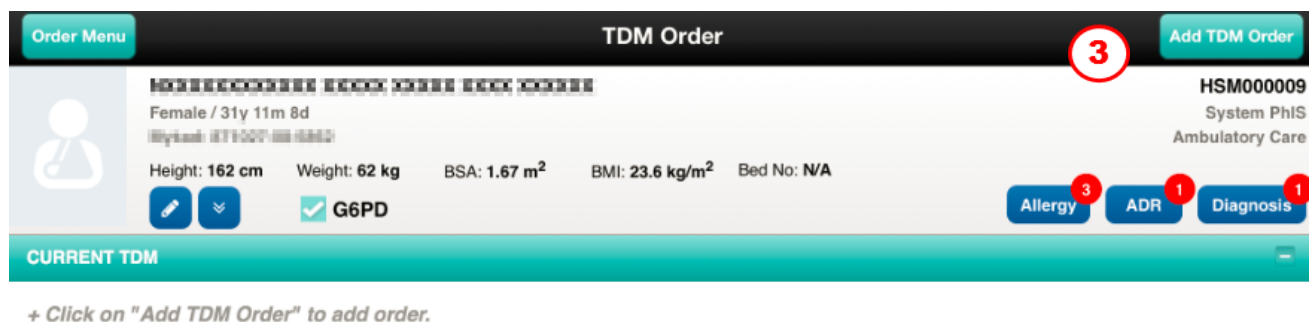


The screenshot shows the 'Order Menu' screen. At the top, there's a 'Patient List' button on the left and 'Order Menu' in the center. Below this, a patient profile is displayed: 'Female / 31y 11m 8d', 'Mykad: 871507-88-8888', 'Height: 162 cm', 'Weight: 62 kg', 'BSA: 1.67 m<sup>2</sup>', 'BMI: 23.6 kg/m<sup>2</sup>', and 'Bed No: N/A'. There are edit and dropdown icons for the patient info, and a 'G6PD' status indicator. On the right, there are buttons for 'Allergy' (with a red circle 3), 'ADR' (with a red circle 1), and 'Diagnosis' (with a red circle 1). Below the patient info, a section titled 'Choose following categories...' contains three buttons: 'Medication Order' (with a red circle 2), 'Other Types of Order', and 'View MAR'.

#### 4.0-2 Medication Order Screen

##### STEP 2

Tap on the **Other Types of Oder**



The screenshot shows the 'TDM Order' screen. At the top, there's an 'Order Menu' button on the left, 'TDM Order' in the center, and an 'Add TDM Order' button on the right (with a red circle 3). Below this, the same patient profile is displayed. At the bottom, there's a teal bar labeled 'CURRENT TDM' and a note: '+ Click on "Add TDM Order" to add order.'

#### 4.0-3 TDM Order Screen


##### STEP 3

Tap on the **Add TDM Order** button

TDM Order




TDM Order

Confirm Order



XXXXXXXXXX XXXX XXXX XXXX XXXX  
Female (18y Female)  
Mykad: 870001-08-0000

Height: 162 cm Weight: 62 kg BSA: 1.67 m<sup>2</sup> BMI: 23.6 kg/m<sup>2</sup> Bed No: N/A

   G6PD

HSM000009  
System PhIS  
Ambulatory Care

Allergy <sup>3</sup> ADR <sup>1</sup> Diagnosis <sup>1</sup>

4

Non Compliance

Poor Response

Suspected Toxicity

Therapeutic Monitoring

Search Option

All Drugs

TDM Drug

TDM Guidelines

Order Remarks

Insert Order Remarks

Drug details

Specify current dosage & frequency


Patient Condition


☐ Oedema
 ☐ Burn

☐ Smoker
 ☐ Liver Disease

☐ Dialysis
 ☐ Dehydration

☐ Other

 System PhIS

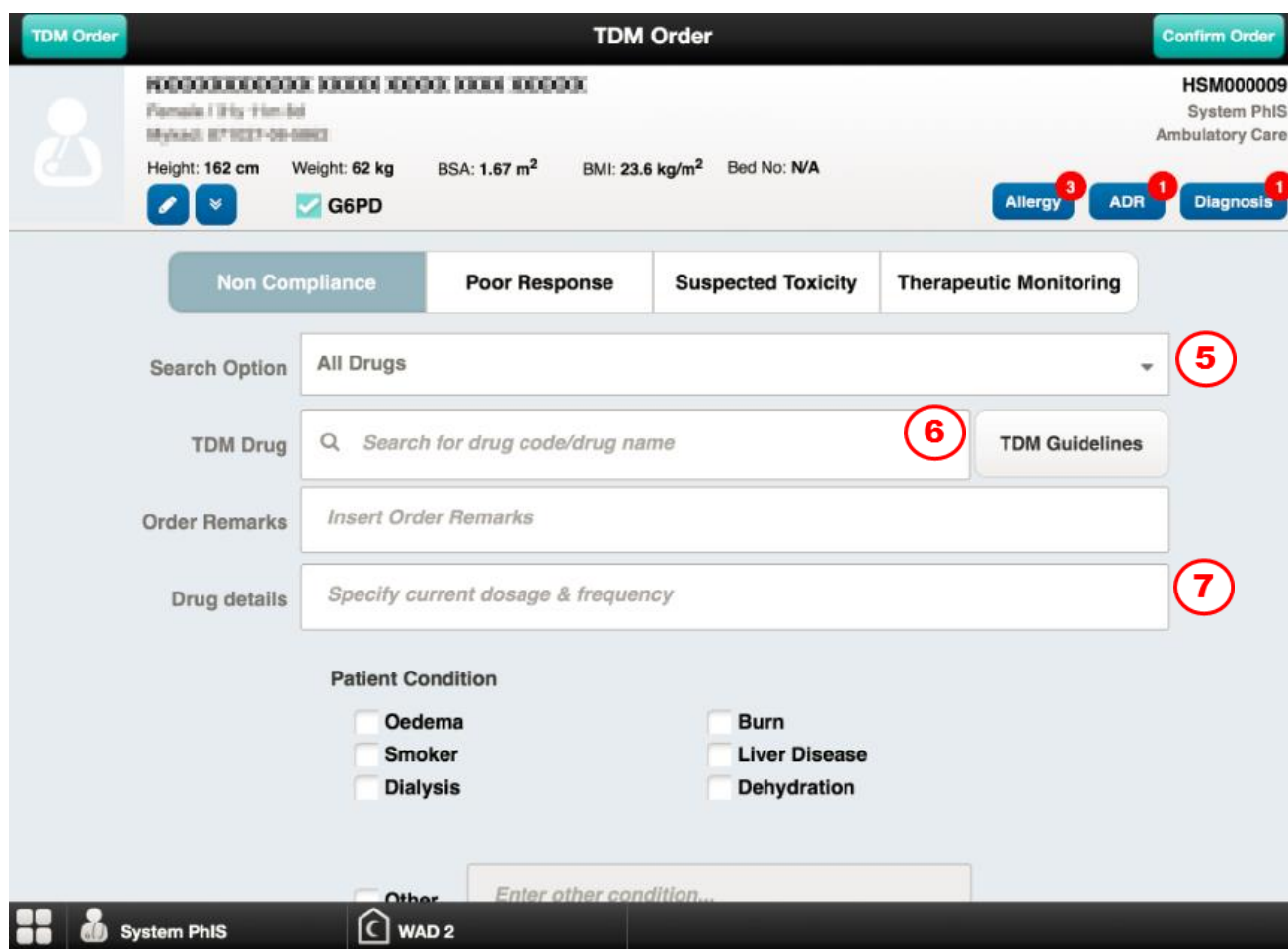
 WAD 2

4.0-4 TDM Order Screen

#### STEP 4

Select indication for request from the **TDM Order** screen

- Non Compliance
- Poor Response
- Suspected Toxicity
- Therapeutic Monitoring



The screenshot shows the 'TDM Order' screen. At the top, there's a header with 'TDM Order' and a 'Confirm Order' button. Below the header, patient information is displayed: 'Female (18y 11m 1d)', 'MyKad: 870001-08-0000', 'Height: 162 cm', 'Weight: 62 kg', 'BSA: 1.67 m<sup>2</sup>', 'BMI: 23.6 kg/m<sup>2</sup>', and 'Bed No: N/A'. There are also buttons for 'Allergy' (3), 'ADR' (1), and 'Diagnosis' (1). A 'G6PD' status is shown as 'G6PD'. Below this, there are four tabs: 'Non Compliance', 'Poor Response', 'Suspected Toxicity', and 'Therapeutic Monitoring'. The 'Search Option' dropdown is set to 'All Drugs' (5). The 'TDM Drug' search field contains the placeholder 'Search for drug code/drug name' (6). The 'Order Remarks' field contains 'Insert Order Remarks'. The 'Drug details' field contains 'Specify current dosage & frequency' (7). Below these fields, there are checkboxes for 'Patient Condition': 'Oedema', 'Smoker', 'Dialysis', 'Burn', 'Liver Disease', and 'Dehydration'. At the bottom, there's an 'Other' field with the placeholder 'Enter other condition...'. The bottom navigation bar shows 'System PhIS' and 'WAD 2'.

4.0-5 TDM Order Screen

#### STEP 5

Select drug category based on **Search Option** from drop down menu :

- Current Medication
- Previous Medication
- All Drugs

#### STEP 6

Select drug from **TDM Drug** search field

#### STEP 7

Enter **Drug details**

#### Note

- If the selected TDM Drug is the Current Medication or Previous Medication, system will automatically display the Drug Details from medication profile.
- Click on the **TDM Guidelines** button to view TDM Guideline details on the selected TDM Drug as per Figure 4.0-6.
- TDM Guideline master setup is controlled by HQ.
- If the selected Indication for Request is 'Suspected Toxicity', TDM Drug search will default to 'All drugs' which comes from drugs that have been set in TDM Guideline master.
- The Drug Details field will be a free text field for user to enter the current dosage and frequency

TDM Guideline Close


TDM Drug	carBAMAZepine 200mg Tablet
Total Cost of Analysis(RM)	0.00
Time to Reach Steady State	2 – 3 weeks (Induction phase)4-7 days (MD)
Remarks	N/A

TDM Guideline Details

Sampling Type	After / Before	Default Time	Lab Order	Therapeutic Range	Uom	Update On
Random	AFTER	30 MINUTES	Carbamazepine random	TROUGH : 4 – 12 mcg / ml	mcg/ml	24/11/2015
Pre	BEFORE	30 MINUTES	Carbamazepine PRE	TROUGH : 4 – 12 mcg / ml	mcg/ml	03/11/2013

#### 4.0-6 TDM Guideline

TDM Order Confirm Order



**XXXXXXXXXX XXXX XXX XXX XXXXX**

Female / 31y / 158cm / 62kg / 162cm / 62kg

Height: 162 cm Weight: 62 kg BSA: 1.67 m<sup>2</sup> BMI: 23.6 kg/m<sup>2</sup> Bed No: N/A

G6PD

HSM000009

System PhIS

Ambulatory Care

Allergy
ADR
Diagnosis

Latest Lab Result

Blood Urea	<input type="text" value="0"/>	mmol/L	Sodium	<input type="text" value="0"/>	mmol/L	Potassium	<input type="text" value="0"/>	mmol/L
Serum Creatinine	<input type="text" value="0"/>	μmol/L	Creatinine Clearance	<input type="text" value="0"/>	ml/min	Albumin	<input type="text" value="0"/>	g/L

Sampling Details



Sampling Type Select one...

- no remarks -

Drug Admin Date/Time 4 Oct 2019 2:55 PM

Sampling Time 4 None

Add Order

 System PhIS
 WAD 2

#### 4.0-7 TDM Guideline

### STEP 8

Enter **Latest Lab Result** which consists of:

- a) Blood Urea
- b) Sodium
- c) Potassium
- d) Serum Creatinine
- e) Creatinine Clearance
- f) Albumin

### STEP 9


Select **Sampling Type** from dropdown box:

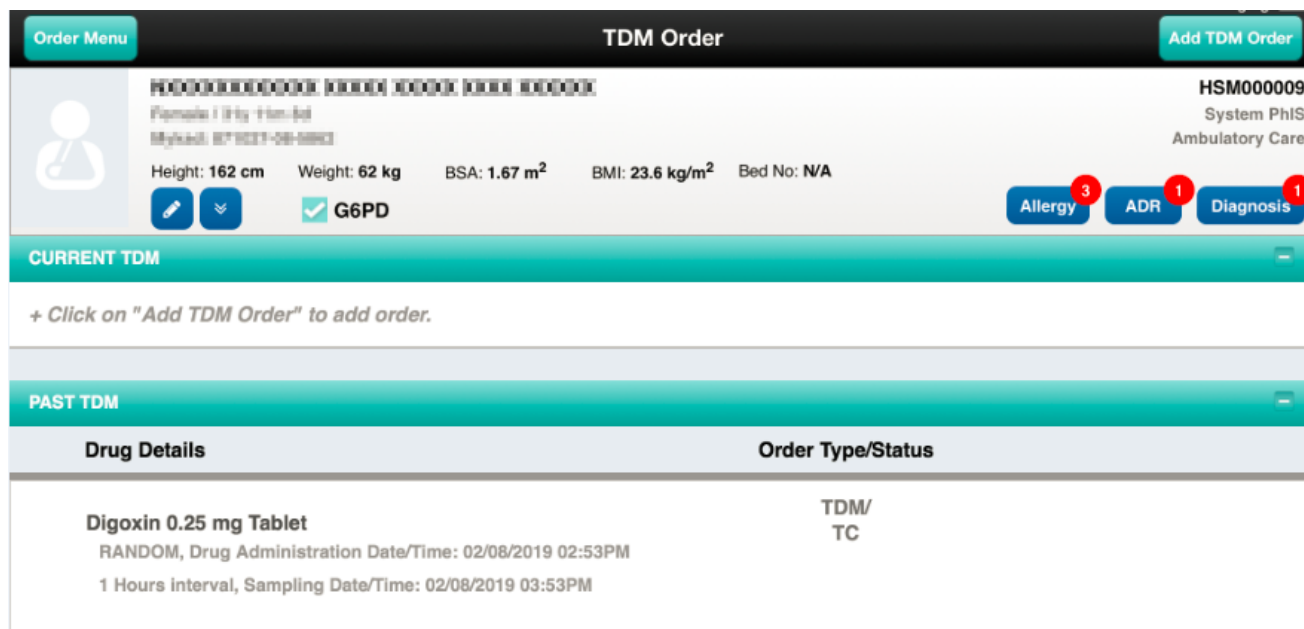
- Pre
- Post
- Random

### STEP 10

Tap on the  button

### STEP 11




Tap on the  to send the order to pharmacy



**Order Menu** **TDM Order** **Add TDM Order**

**Female** (11y 11m 10d)  
Mykad: 871021-08-0000

Height: 162 cm Weight: 62 kg BSA: 1.67 m<sup>2</sup> BMI: 23.6 kg/m<sup>2</sup> Bed No: N/A

   **G6PD**

**Allergy** **ADR** **Diagnosis**

**CURRENT TDM**

+ Click on "Add TDM Order" to add order.

**PAST TDM**

Drug Details	Order Type/Status
<b>Digoxin 0.25 mg Tablet</b> RANDOM, Drug Administration Date/Time: 02/08/2019 02:53PM 1 Hours interval, Sampling Date/Time: 02/08/2019 03:53PM	TDM/ TC

### 4.0-8 TDM Guideline

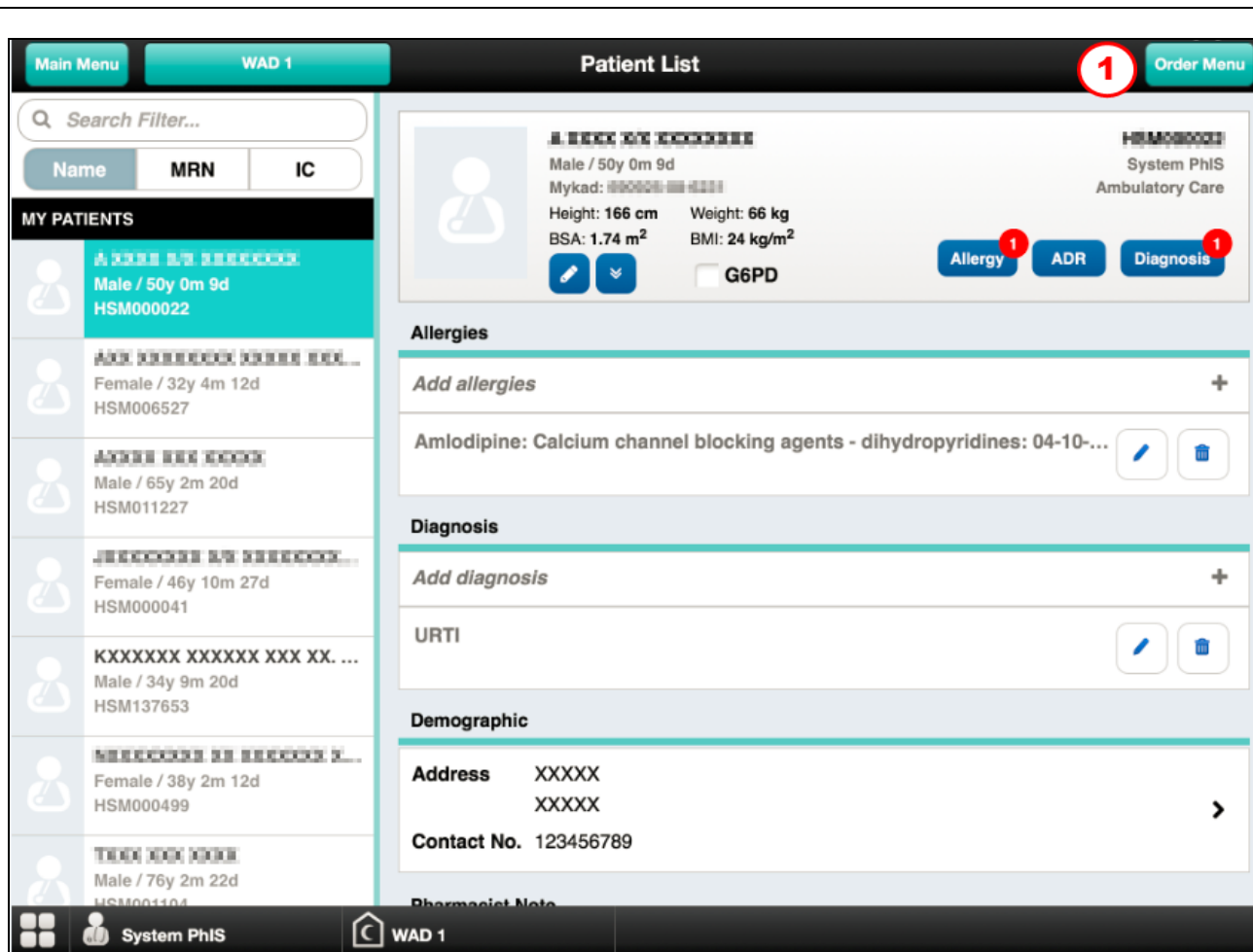
#### Note

Confirmed TDM Order as shown in Figure 4.0-8

## 5.0 Infusion

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

### 5.1 IV Admixture



The screenshot displays the 'Patient List' screen in the PhIS mobile application. The top navigation bar includes 'Main Menu', 'WAD 1', 'Patient List', and 'Order Menu' (highlighted with a red circle and the number 1). A search filter is available at the top left. The main area is divided into two sections: 'MY PATIENTS' on the left and a detailed patient profile on the right. The 'MY PATIENTS' list shows several patients with their names, MRN, and IC. The detailed patient profile for 'Male / 50y 0m 9d' (HSM000022) includes personal information, physical attributes (Height: 166 cm, Weight: 66 kg, BSA: 1.74 m<sup>2</sup>, BMI: 24 kg/m<sup>2</sup>), and a 'G6PD' status. Below this, there are sections for 'Allergies', 'Diagnosis', and 'Demographic'. The 'Allergies' section shows 'Amlodipine: Calcium channel blocking agents - dihydropyridines: 04-10-...' with a red circle and the number 1. The 'Diagnosis' section shows 'URTI'. The 'Demographic' section shows 'Address' and 'Contact No. 123456789'. At the bottom, there is a 'Pharmacist Note' section. The bottom navigation bar includes 'System PhIS', 'WAD 1', and 'Order Menu'.

5.0-1 Order Screen

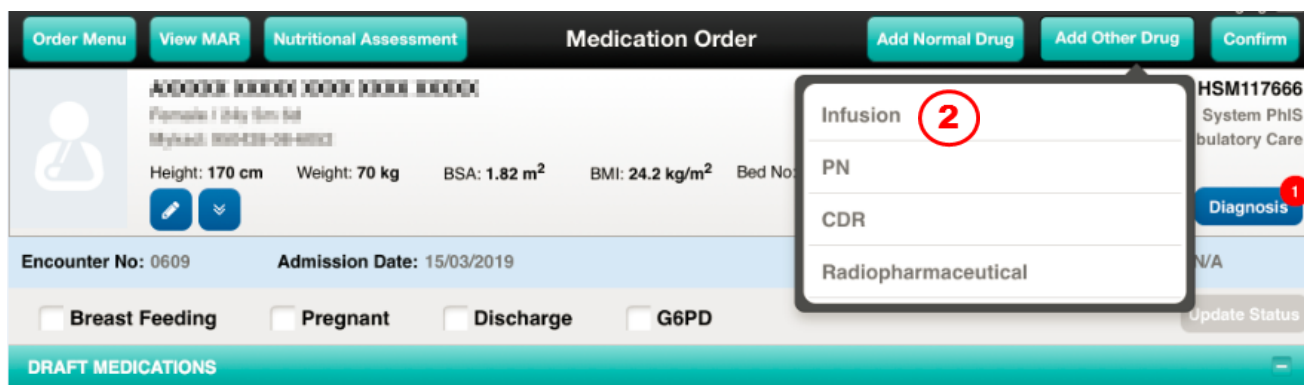
#### Note

Repeat **step 1** until **step 3** as 3.1.1 record allergy section

#### STEP 1

Tap on the

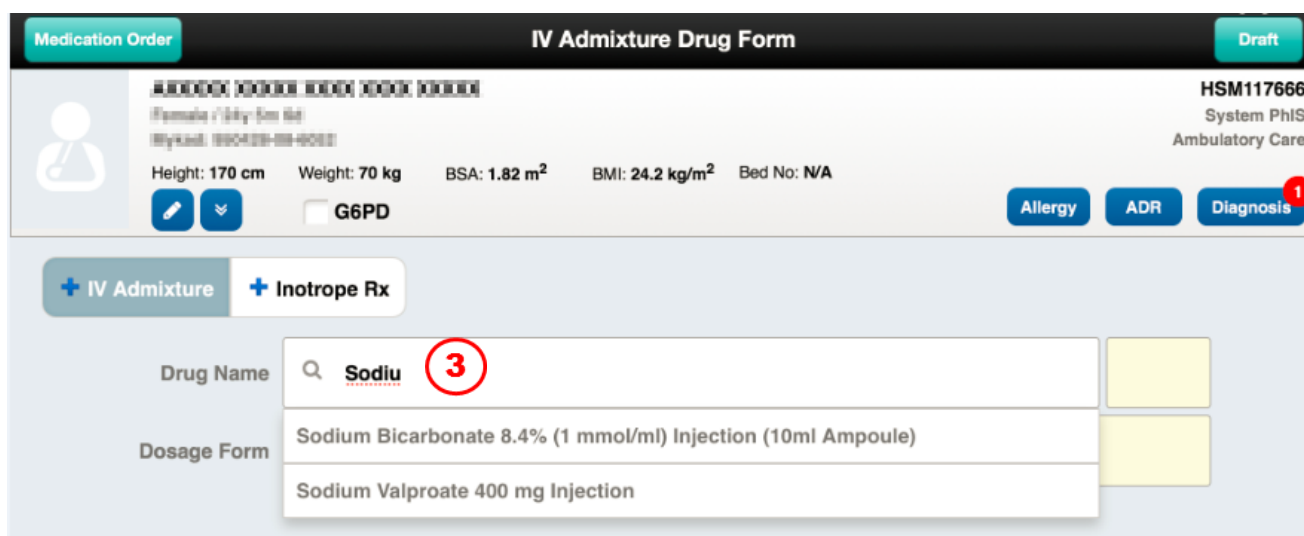




### 5.0-2 Order Screen

#### STEP 2

Tap on the **Infusion** menu



### 5.0-3 IV Admixture Order Screen

#### Note

User will have option to prescribe **IV Admixture** or **Inotrope Rx** but by default system will displayed **IVAdmixture screen**


#### STEP 3

Enter the keyword of **Drug Name** and tap on the selected drug

Medication Order

IV Admixture Drug Form

Draft



XXXXXXXXXX XXXX XXXX

Female / (kg) (cm) (ml)

Mykel: XXX-XXX-XX-XXXX

Height: 170 cm

Weight: 70 kg

BSA: 1.82 m<sup>2</sup>

BMI: 24.2 kg/m<sup>2</sup>

Bed No: N/A

G6PD

Allergy

ADR

Diagnosis

HS 06

System IS

Ambulatory Care

+ IV Admixture

+ Inotrope Rx

Drug Name

Sodium Valproate 400 mg Injection

B

Dosage Form

Parenteral Solution

Admin Route

Intravenous

Dosage

400

mg

Diluent

Sodium Chloride 0.45% with Dextrose 5% 500mL IV soln

Fluid Volume

500

ml

Ordered Concentration

0.8

mg/ml

Infuse (Over hours)

0

(Over minutes)

0

Frequency

OD (once daily)

Start Date

4 Oct 2019

Duration

Insert duration...

Days

End Date

4 Oct 2019

Indication

Status epilepticus

Dispense Location

Pharmacy Oncology Service

Remarks

Optional...

System PhIS

WAD 2

5.0-4 IV Admixture Order Screen

**Note**

- **End Date/Time** is defaulted by the system according to duration.
- Information on **IV Admixture** screen will be automatically calculated based on the master setup.
- $\text{Infusion Rate} = \text{Fluid Volume} / \text{Infuse Over}$ .
- $\text{Ordered Concentration} = \text{Dosage} / \text{Fluid Volume}$ .

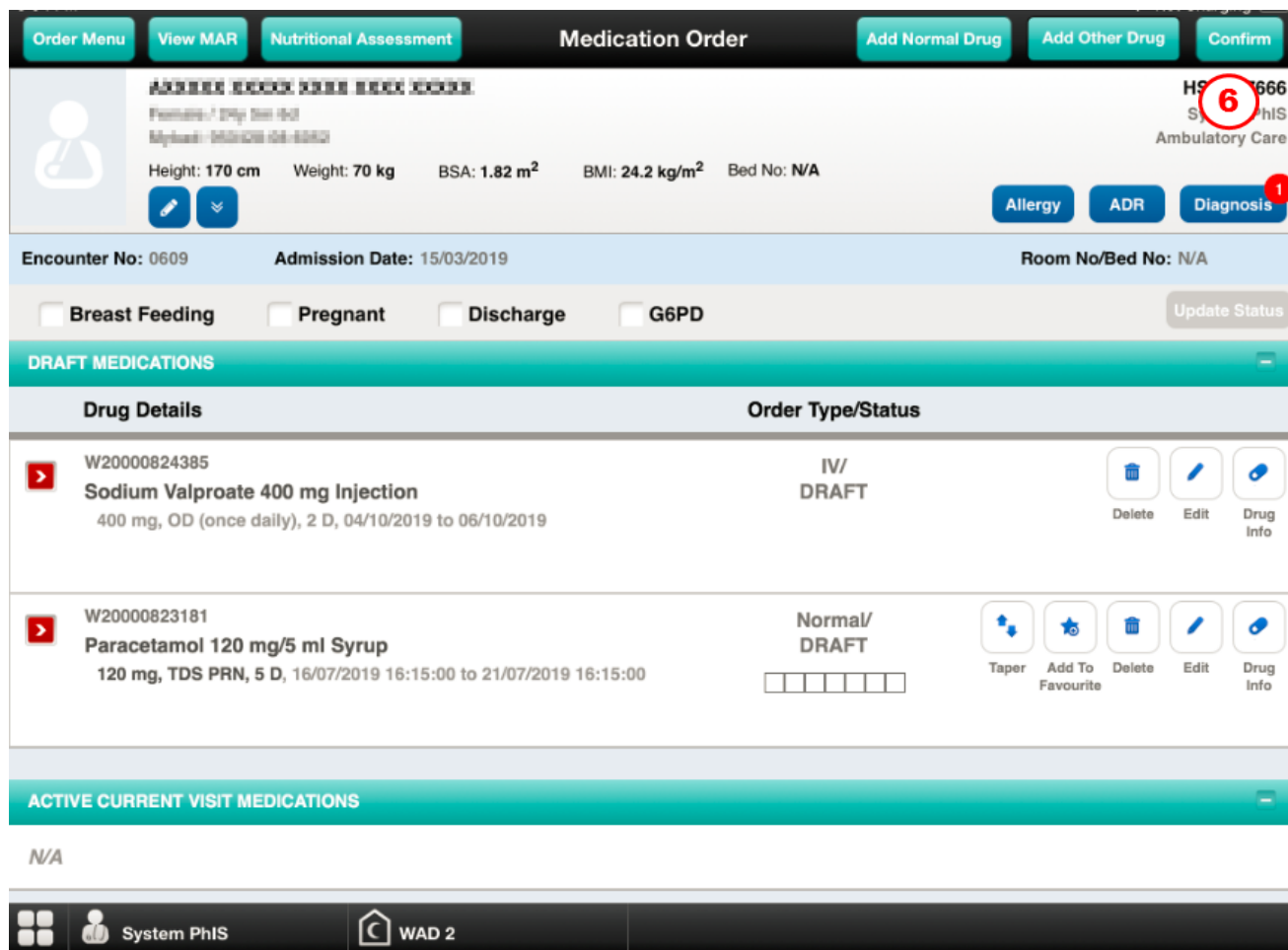


#### STEP 4

Enter all the necessary information

#### STEP 5

Tap on the **Draft** button to save the prescription

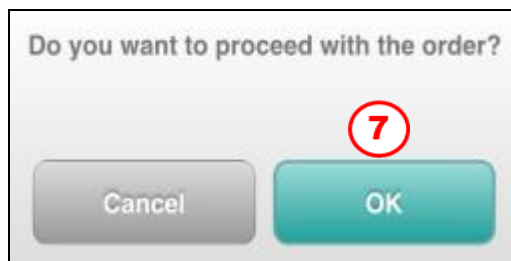


The screenshot displays the 'Medication Order' screen. At the top, there are buttons for 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. Below these, patient information is shown: 'Female', 'Dyq Bui Hoi', 'Mykad: M4028 04-10-1989', 'Height: 170 cm', 'Weight: 70 kg', 'BSA: 1.82 m²', 'BMI: 24.2 kg/m²', and 'Bed No: N/A'. A red circle with the number '6' highlights the 'Confirm' button. Below the patient info, there are buttons for 'Allergy', 'ADR', and 'Diagnosis'. The 'Encounter No: 0609', 'Admission Date: 15/03/2019', and 'Room No/Bed No: N/A' are displayed. There are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', along with an 'Update Status' button. The 'DRAFT MEDICATIONS' section lists two items: 'Sodium Valproate 400 mg Injection' (IV/ DRAFT) and 'Paracetamol 120 mg/5 ml Syrup' (Normal/ DRAFT). Each item has icons for 'Delete', 'Edit', and 'Drug Info'. The 'ACTIVE CURRENT VISIT MEDICATIONS' section shows 'N/A'. At the bottom, there are icons for 'System PhIS' and 'WAD 2'.

#### 5.0-5 IV Admixture Order Screen

#### STEP 6

Tap on the **Confirm** button to add the prescription



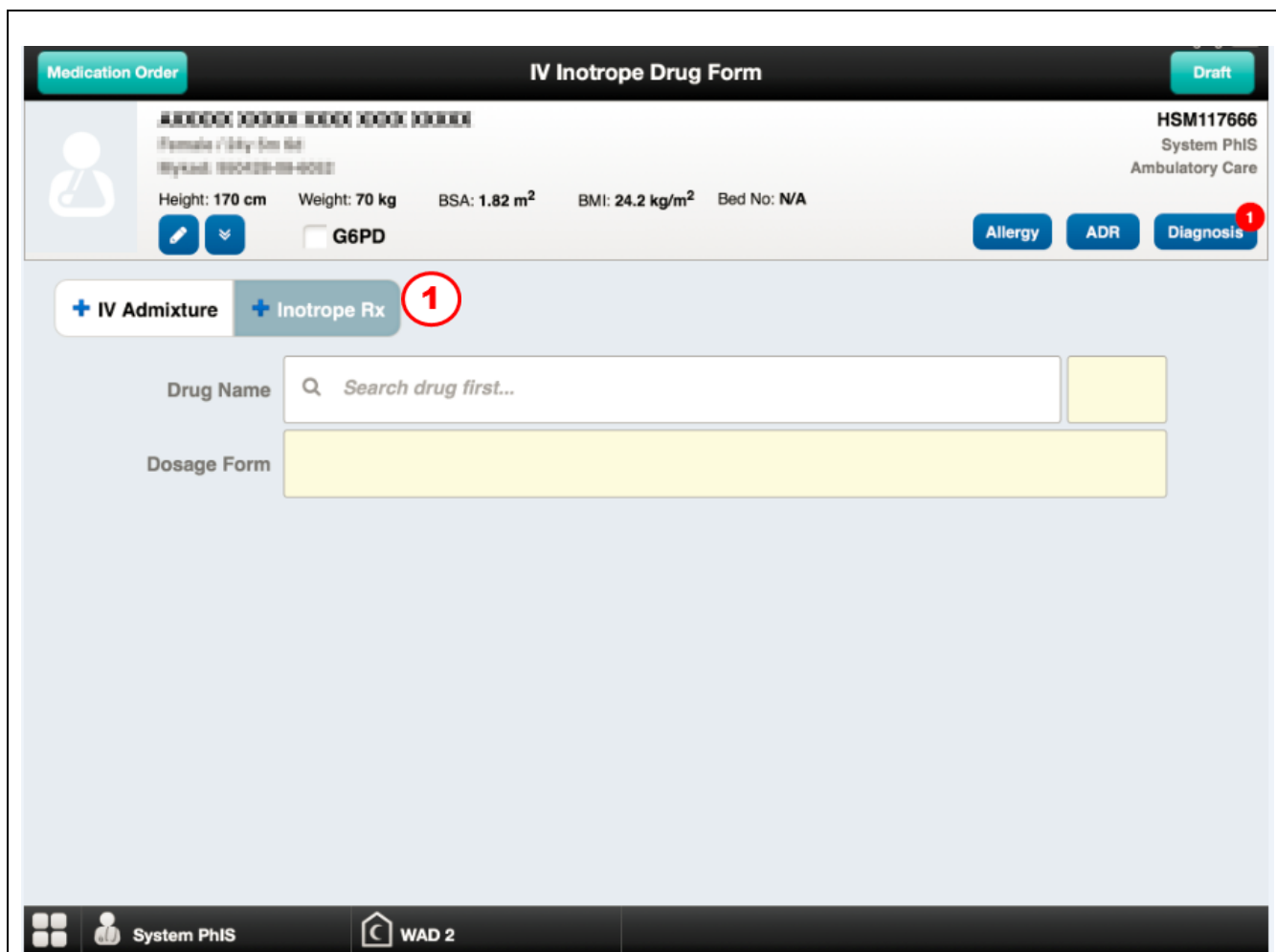
The screenshot shows a confirmation dialog box with the text 'Do you want to proceed with the order?'. There are two buttons: 'Cancel' and 'OK'. A red circle with the number '7' highlights the 'OK' button.

#### 5.0-6 IV Admixture Order Screen

#### STEP 7

Tap on the **OK** button to proceed with the order

## 5.2 Inotrope



**Medication Order** **IV Inotrope Drug Form** **Draft**

**XXXXXX XXXXX XXXXX XXXXX XXXXX**  
 (Female / 181kg / 1m 66)  
 Mycard: 1804020-00-0000

Height: 170 cm Weight: 70 kg BSA: 1.82 m<sup>2</sup> BMI: 24.2 kg/m<sup>2</sup> Bed No: N/A

☐ G6PD

**Allergy** **ADR** **Diagnosis** <sup>1</sup>

**+ IV Admixture** **+ Inotrope Rx** <sup>1</sup>

Drug Name

Dosage Form

**System PhIS** **WAD 2**

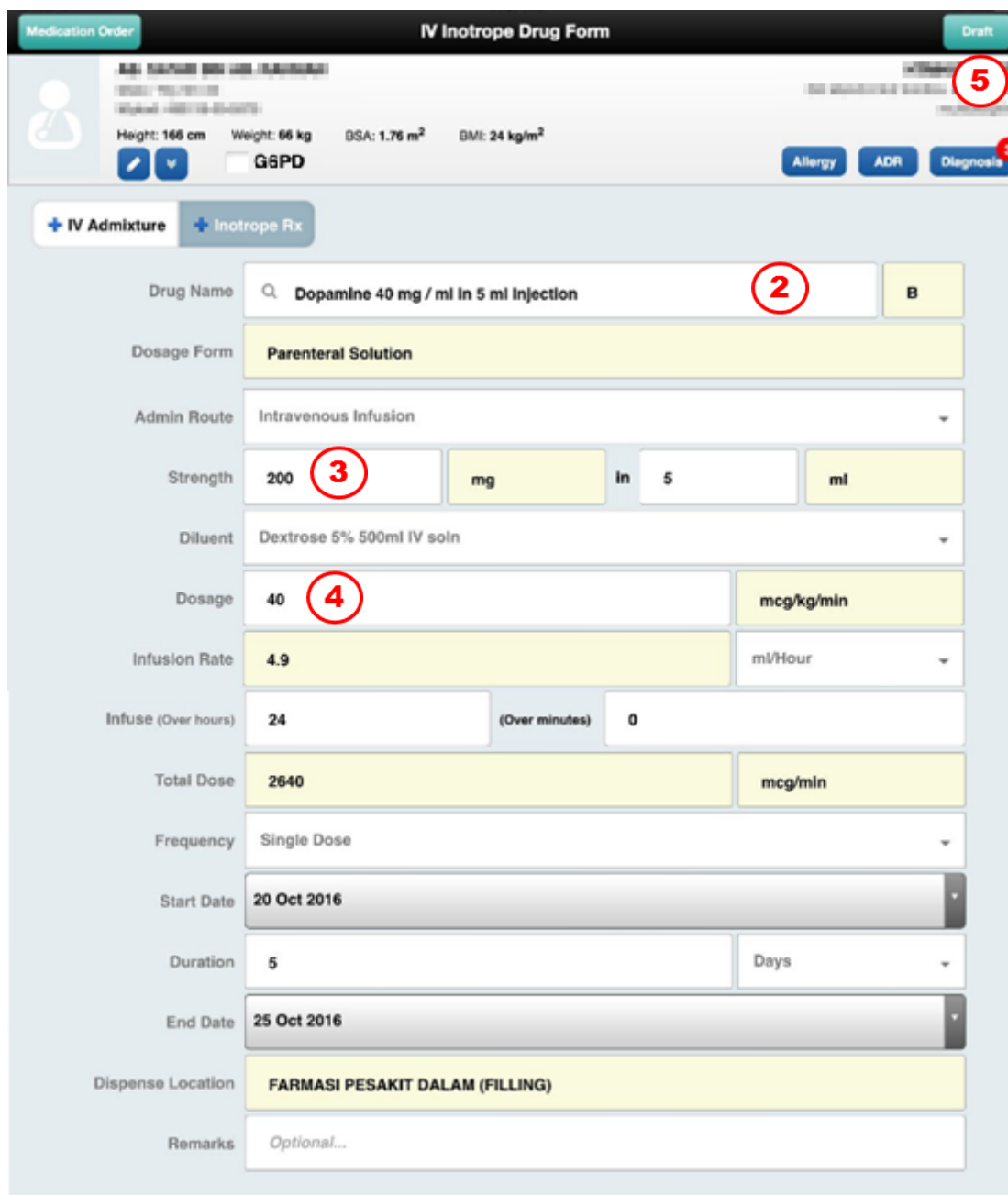
### 5.2-1 IV Admixture Order Screen

#### Note

- Repeat **Step 1** until **Step 3** as 3.1.1 record allergy section.
- Repeat **Step 1** until **Step 2** as section 5.1 Iv Admixture.

#### STEP 1

Tap on the **+ Inotrope Rx** tab



The screenshot shows the 'IV Inotrope Drug Form' interface. At the top, there is a 'Medication Order' header and a 'Draft' button (callout 5). Below the header, patient information is displayed: Height: 166 cm, Weight: 66 kg, BSA: 1.76 m<sup>2</sup>, BMI: 24 kg/m<sup>2</sup>, and a 'G6PD' status. There are buttons for 'Allergy', 'ADR', and 'Diagnosis' (callout 3). The main form area has two tabs: '+ IV Admixture' and '+ Inotrope Rx'. The 'IV Admixture' tab is active. The form fields are as follows:

- Drug Name:** A search bar containing 'Dopamine 40 mg / ml in 5 ml Injection' (callout 2) and a dropdown menu showing 'B'.
- Dosage Form:** A dropdown menu showing 'Parenteral Solution'.
- Admin Route:** A dropdown menu showing 'Intravenous Infusion'.
- Strength:** A field with '200' (callout 3), a unit dropdown showing 'mg', and a volume field with '5' and a unit dropdown showing 'ml'.
- Diluent:** A dropdown menu showing 'Dextrose 5% 500ml IV soln'.
- Dosage:** A field with '40' (callout 4) and a unit dropdown showing 'mcg/kg/min'.
- Infusion Rate:** A field with '4.9' and a unit dropdown showing 'ml/Hour'.
- Infuse (Over hours):** A field with '24' and a unit dropdown showing '(Over minutes)'.
- Total Dose:** A field with '2640' and a unit dropdown showing 'mcg/min'.
- Frequency:** A dropdown menu showing 'Single Dose'.
- Start Date:** A date picker showing '20 Oct 2016'.
- Duration:** A field with '5' and a unit dropdown showing 'Days'.
- End Date:** A date picker showing '25 Oct 2016'.
- Dispense Location:** A dropdown menu showing 'FARMASI PESAKIT DALAM (FILLING)'.
- Remarks:** A text field with the placeholder 'Optional...'.

### 5.2-2 IV Admixture Order Screen

#### STEP 2

Enter the keyword of **Drug Name** and tap on the selected drug

#### STEP 3

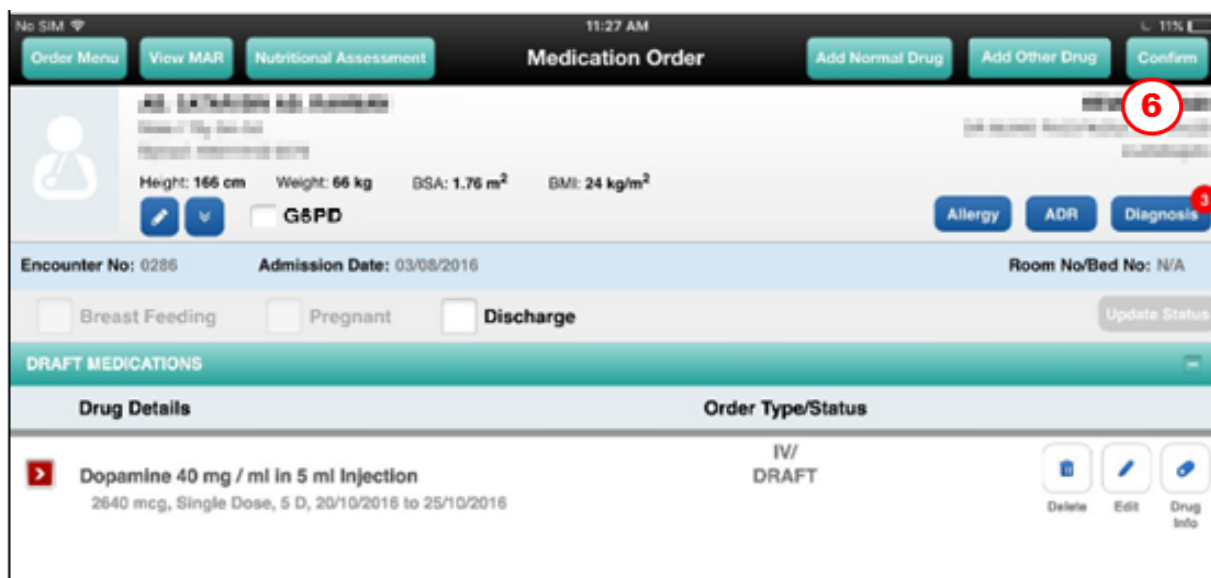
Decide the strength of preparation e.g. 200mg in 50ml

#### STEP 4

Decide the dose required e.g. mcg/kg/min

#### STEP 5

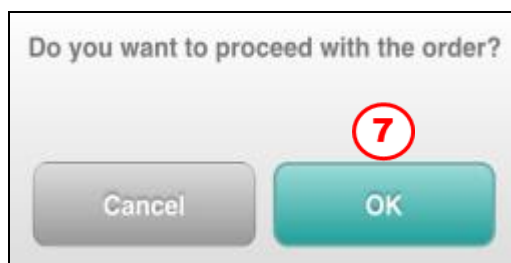
Tap on the  button to save the prescription



### 5.2-3 IV Admixture Order Screen

#### STEP 6

Tap on the  button to add the prescription



### 5.2-4 IV Admixture Order Screen

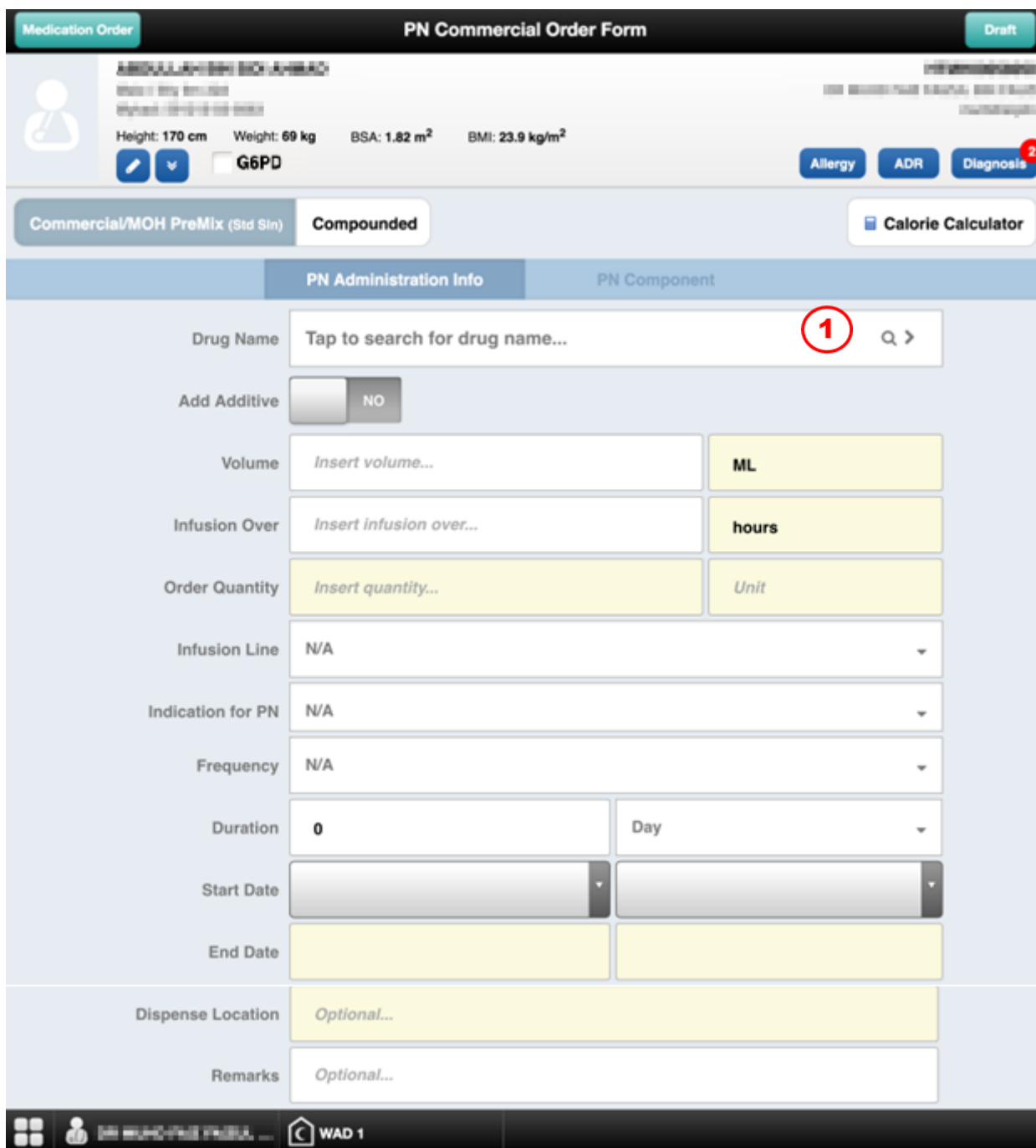
#### STEP 7

Tap on the  button to proceed with the order

## 6.0 Parenteral Nutrition (PN)

### 6.1 Commercial / MOH PreMix

Commercial / MOH Pre Mix (Std. Soln) allow user to order ready made product from manufacturer or facility.



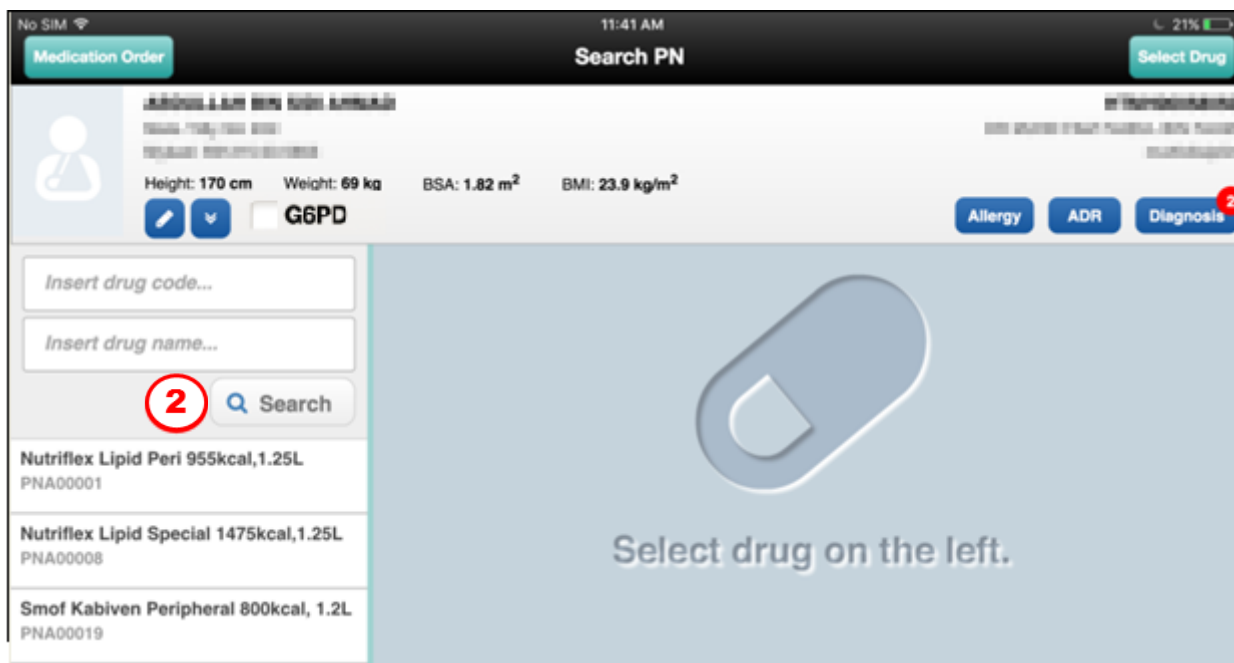
6.1-1 PN Order Screen

**Note**

Repeat **step 1** until **step 3** as 3.1.1 record allergy section

## STEP 1

Tap on the **Drug Name** search field



6.1-2 PN Order Screen

## STEP 2

Tap on the  button to select drug

### Note


- To search for existing product record(s), you may search by criteria as follow:
  - Drug Code
  - Drug Name
- User may tap on the listed commercial drugs to view the component of the PN bag as per Figure 6.1-3

Medication Order

Search PN

3

Select Drug



Female / 20y / 160 cm / 50 kg  
Height: 170 cm Weight: 70 kg BSA: 1.82 m<sup>2</sup> BMI: 24.2 kg/m<sup>2</sup> Bed No: N/A

☐ G6PD

HEALTHTEAM

System Full  
Ambulatory Care

Nutriflex Lipid Peri 955kcal,1.25L  
PNA00001

Drug Name

Nutriflex Lipid Peri 955kcal,1.25L

Volume

1250

ml

Total Energy

955

kCal

Ingredient	Value
Macronutrient	
Amino Acid	40 g
Glucose	80 g
Lipids	50 g



System PhIS



WAD 2

6.1-3 PN Component Screen

### STEP 3


Tap on the **Select Drug** button



Medication Order

PN Commercial Order Form

Draft



Female / 20y 0m 0d

MyMed: 000000-00-0000

Height: 170 cm Weight: 70 kg BSA: 1.82 m<sup>2</sup> BMI: 24.2 kg/m<sup>2</sup> Bed No: N/A

☐ G6PD

Allergy

ADR

Diagnosis <sup>1</sup>

Commercial/MOH PreMix (Std Sin)

Compounded

Calorie Calculator

PN Administration Info		PN Component	
Frequency	OD (once daily) ▾	Duration	1 Days ▾
Infusion Over	24 hours	Infusion Line	Central <sup>4</sup>
Start Date	4 Oct 2019 5:00 PM	End Date	5 Oct 2019 5:00 PM
Indication for PN	Select one... <sup>5</sup>		
Dispense Location	Satellite Pharmacy		
Remarks	Optional...		

System PhIS

WAD 2

6.1-4 PN Order Screen

#### Note

- All information will automatically display and base on the information from PN Source Content and PN Constituents Reference Range.
- This field still can be change by the user if applicable.
- Start Date/Time and will be automatically default to current date but still can be change by the user if applicable.
- End Date/Time will be displayed according to duration product given.
- Order Quantity will be automatically displayed and base on the information from PN Source Content and PN Constituents Reference Range.

#### STEP 4

Select **Infusion Line** from drop down menu

- Central
- Peripheral
- Plan for central

#### STEP 5

Select **Indication for PN** from the dropdown menu

Medication Order

PN Commercial Order Form

Draft

\*\*\*\*\*

Female: 10/10/1980

Height: 170 cm Weight: 70 kg BSA: 1.82 m<sup>2</sup> BMI: 24.2 kg/m<sup>2</sup> Bed No: N/A

☐ G6PD

Allergy

ADR

Diagnosis

Commercial/MOH PreMix (Std Sin)

Compounded

Calorie Calculator


PN Administration Info		PN Component	
Frequency	OD (once daily)	Duration	1 Days
Infusion Over	24 hours	Infusion Line	Central
Start Date	4 Oct 2019 5:00 PM	End Date	5 Oct 2019 5:00 PM
Indication for PN	Select one...		
Dispense Location	Satellite Pharmacy		
Remarks	Optional...		

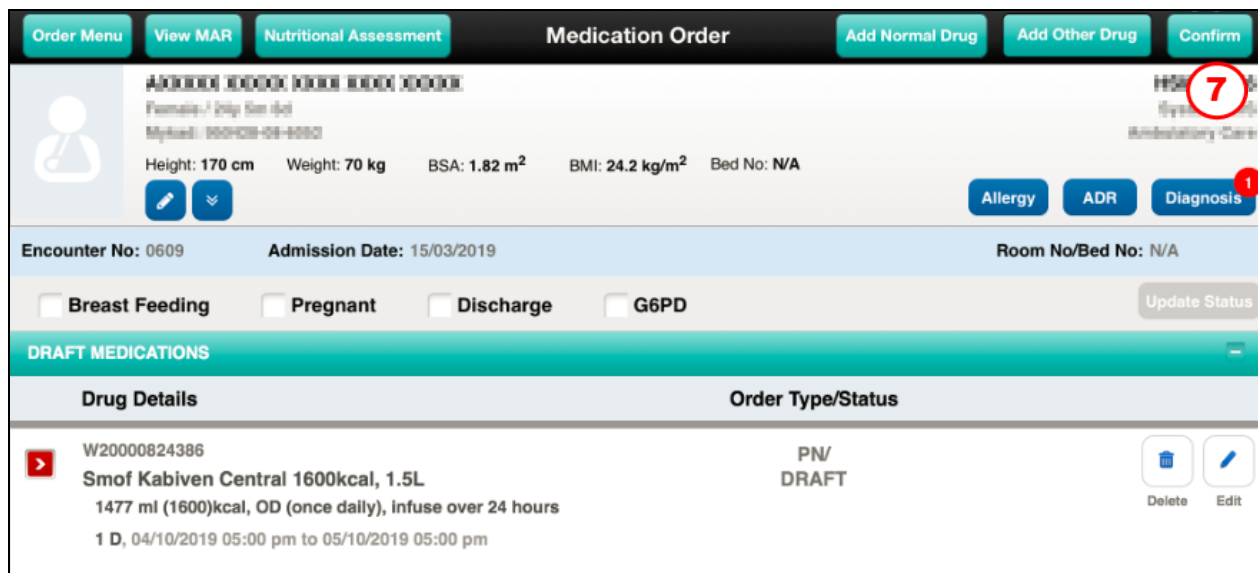
System PhIS

WAD 2

### 6.1-5 PN Order Screen

## STEP 6

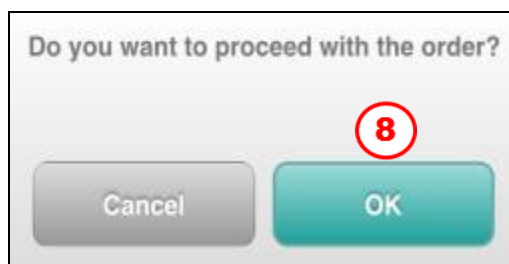
Tap on the  button to save the prescription



6.1-6 PN Order Screen

#### STEP 7

Tap on the  button to add the prescription



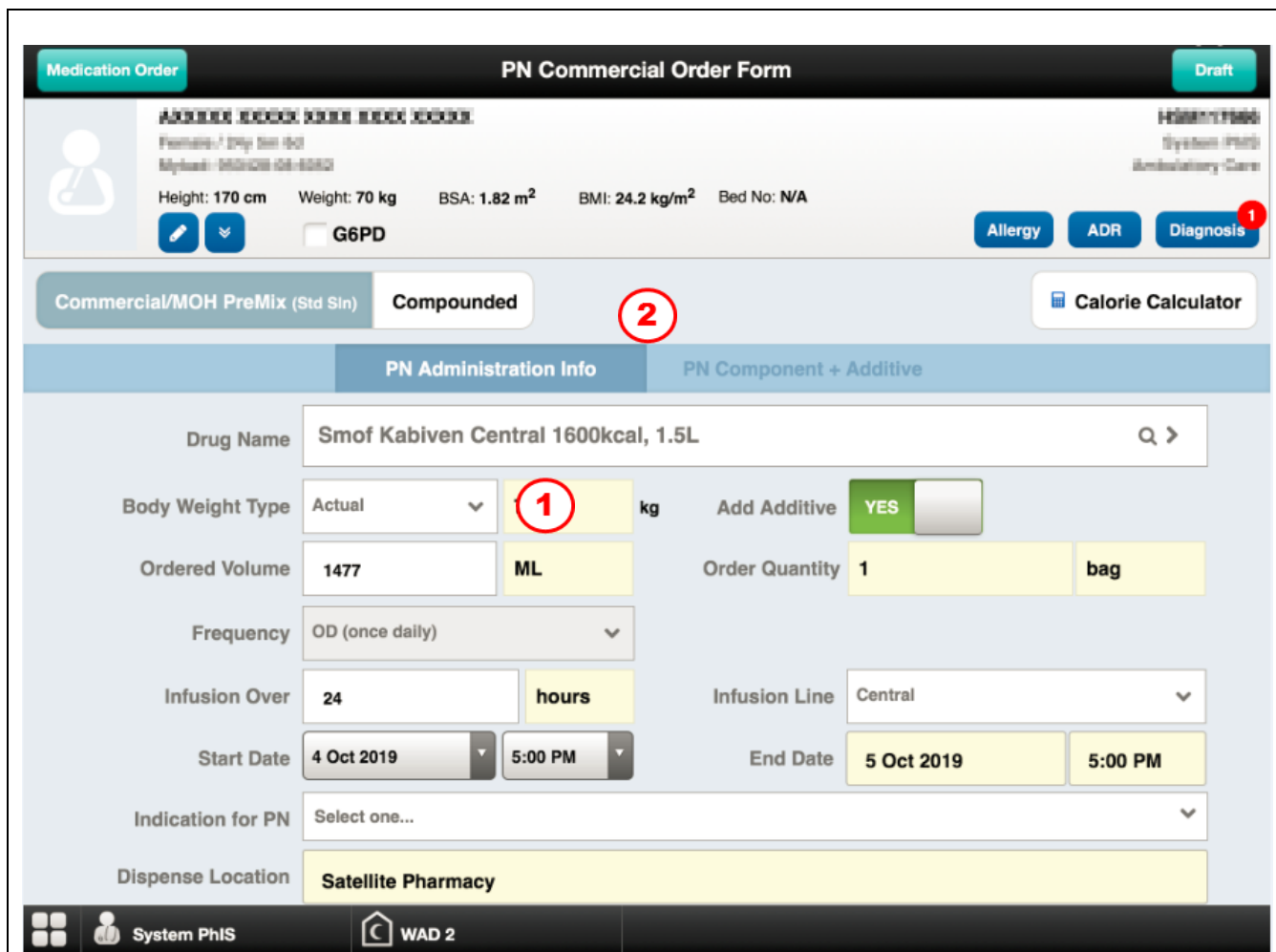
6.1-7 PN Alert Order Screen

#### STEP 8

Tap on the  button to proceed with the order

## 6.2 Commercial Add Additive

Commercial / MOH Pre Mix (Std. Soln) allow user to order readymade product with additional PN component.



6.2-1 PN Order Screen

### Note

- Repeat **step 1** until **step 3** as 3.1.1 record allergy section
- Repeat **step 1** until **step 3** as 6.3 Commercial / MOH PreMix

### STEP 1

Tap on the  box


### STEP 2

Tap on the **PN component + Add Addictive** tab

Medication Order

PN Commercial Order Form

Draft



Height: 170 cm

Weight: 69 kg

BSA: 1.82 m<sup>2</sup>

BMI: 23.9 kg/m<sup>2</sup>

3

2

Allergy

ADR

Diagnosis

Commercial/MOH PreMix (Std Sin)

Compounded

Calorie Calculator

PN Administration Info		PN Component + Additive	
Electrolytes	Requirement Per Day	Per Bag(Per Ordering)	
Sodium(Natrium), Na <sup>+</sup>	40 mmol	30(30)	mmol
Potassium(Kalium), K <sup>+</sup>	mmol	23(23)	mmol
Calcium, Ca <sup>2+</sup>	30 mmol	1.9(1.90)	mmol
Magnesium, Mg <sup>+</sup>	mmol	3.8(3.80)	mmol
Phosphate, (PO <sub>4</sub> ) <sup>2-</sup>	mmol	9.9(9.90)	mmol
Acetate, CH <sub>3</sub> COO	90 mmol	79(79)	mmol
Trace Elements	ml	0(0)	ml
L-Glutamin	ml	0	ml

Single Vitamin

Multi Vitamin

Vitamin	Initial Content	Additional Requirement	Total per Day
Water Soluble	0 ml	ml	0 ml
Fat Soluble	0 ml	ml	0 ml

WAD 1

6.2-2 PN Order Screen

**Note**

- User need to enter total electrolytes required for patient per day.
- All value must be more than per bag ordering.
- All value in all **Per Bag (Per Ordering)** field will automatically default by system.
- Select 

Single Vitamin

 radio button. **Water soluble** and **Fat soluble** field will automatically display as per Figure 6.2-3.

- Select **Multi Vitamin** radio button. **Vitamin(Water and Fat soluble)** field will automatically display as per Figure 3.2-4.
- All value in all **Per Bag (Per Ordering)** field will automatically default by system.

<div>Single Vitamin</div> <div>Multi Vitamin</div>			
Vitamin	Initial Content	Additional Requirement	Total per Day
Water Soluble	0 ml		0 ml
Fat Soluble	0 ml		0 ml

6.2-3 Single Vitamin Screen

<div>Single Vitamin</div> <div>Multi Vitamin</div>			
Vitamin	Initial Content	Additional Requirement	Total per Day
Vitamin (Water & Fat Soluble)	0 ml		0 ml

6.2-4 Multi Vitamin Screen

### STEP 3

Tap on the **Draft** button to save the prescription

3:17 PM

Order Menu

View MAR

Nutritional Assessment

Medication Order

Add Normal Drug

Add Other Drug

Confirm

Female / 24y 5m 6d

Mykad:

Height: 170 cm

Weight: 70 kg

BSA: 1.82 m<sup>2</sup>

BMI: 24.2 kg/m<sup>2</sup>

Bed No: N/A

117666

Ambulatory Care

Allergy

ADR

Diagnosis

Encounter No: 0609

Admission Date: 15/03/2019

Room No/Bed No: N/A

Breast Feeding

Pregnant

Discharge

G6PD

Update Status

DRAFT MEDICATIONS

Drug Details	Order Type/Status	
<div>W20000824386</div> <div>Smof Kabiven Central 1600kcal, 1.5L</div> <div>1477 ml (1600)kcal, OD (once daily), Infuse over 24 hours</div> <div>1 D, 04/10/2019 05:00 pm to 05/10/2019 05:00 pm</div>	PN/ DRAFT	<div>Delete</div> <div>Edit</div>

#### 6.2-6 Order Screen

##### STEP 4

Tap on the  button to add the prescription

Do you want to proceed with the order?

Cancel

OK

#### 6.2-7 PN Alert Order Screen

##### STEP 5

Tap on the  button to proceed with the order



### 6.3 PN Compounded

PN Compounded allow user to order PN readymade product with customized patient requirement.

11:13 AM

Medication Order

PN Compounded Order Form

Not Charging

Draft

A XXXX X/X XXXXXXXX

Male / 50y 1m 6d

Mykad: 690925-08-6231

Height: 166 cm

Weight: 66 kg

BSA: 1.74 m<sup>2</sup>

BMI: 24 kg/m<sup>2</sup>

Bed No:

G6PD

Allergy

ADR

Diagnosis

HSM000022

System PhIS

Ambulatory Care

Commercial/MOH PreMix (Std Sin)

Compound

Calorie Calculator

PN Component

PN Administration Info

Age Group

Adult

Body Weight Type

Actual

66

kg

Use Fluid Calculator

YES

By Weight

Per Day

Total Volume required

42.73

ml/kg

2820

ml

Total oral feeding

0

ml/kg

ml

TPN Volume

42.73

ml/kg

2820

ml

Energy required

kcal/kg

0

kcal

Macronutrient

By Weight

Recommended Range

Per Day

Energy(per day)

Carbohydrate

g/kg

3-5

g/kg

0

g

0

kcal

Lipid

g/kg

0.5-2

g/kg

0

g

0

kcal

Protein

g/kg

0.5-2

g/kg

0

g

0

kcal

L-Glutamin

0

ml/kg

1.5-2.5

ml/kg

ml

0

kcal

Carbohydrate:Lipid (kcal)

0

0

g

0

0

Electrolytes

By Weight

Recommended Range

Per Day

Sodium(Natrium), Na<sup>+</sup>

mmol/kg

1-2

mmol/kg

0

mmol

Potassium(Kalium), K<sup>+</sup>

mmol/kg

0.7-1.5

mmol/kg

0

mmol

Calcium, Ca<sup>2+</sup>

mmol/kg

0.1-0.15

mmol/kg

0

mmol

Magnesium, Mg<sup>+</sup>

mmol/kg

0.05-0.15

mmol/kg

0

mmol

Phosphate, (PO<sub>4</sub>)<sup>2-</sup>

mmol/kg

0.7-1.5

mmol/kg

0

mmol

Chloride, Cl<sup>-</sup>

mmol/kg

1.3-2

mmol/kg

0

mmol

Acetate, (CH<sub>3</sub>COO)

mmol/kg

0-0

mmol/kg

0

mmol

Trace Elements

0

mmol/kg

0-10

ml

ml

Single Vitamin

Multi Vitamin

Vitamin

By Weight

Recommended Range

Per Day

Water Soluble

0

ml/kg

0-10

ml

ml

Fat Soluble

0

ml/kg

0-10

ml

ml

System PhIS

WAD 1

6.3-1 PN Order Screen

Note

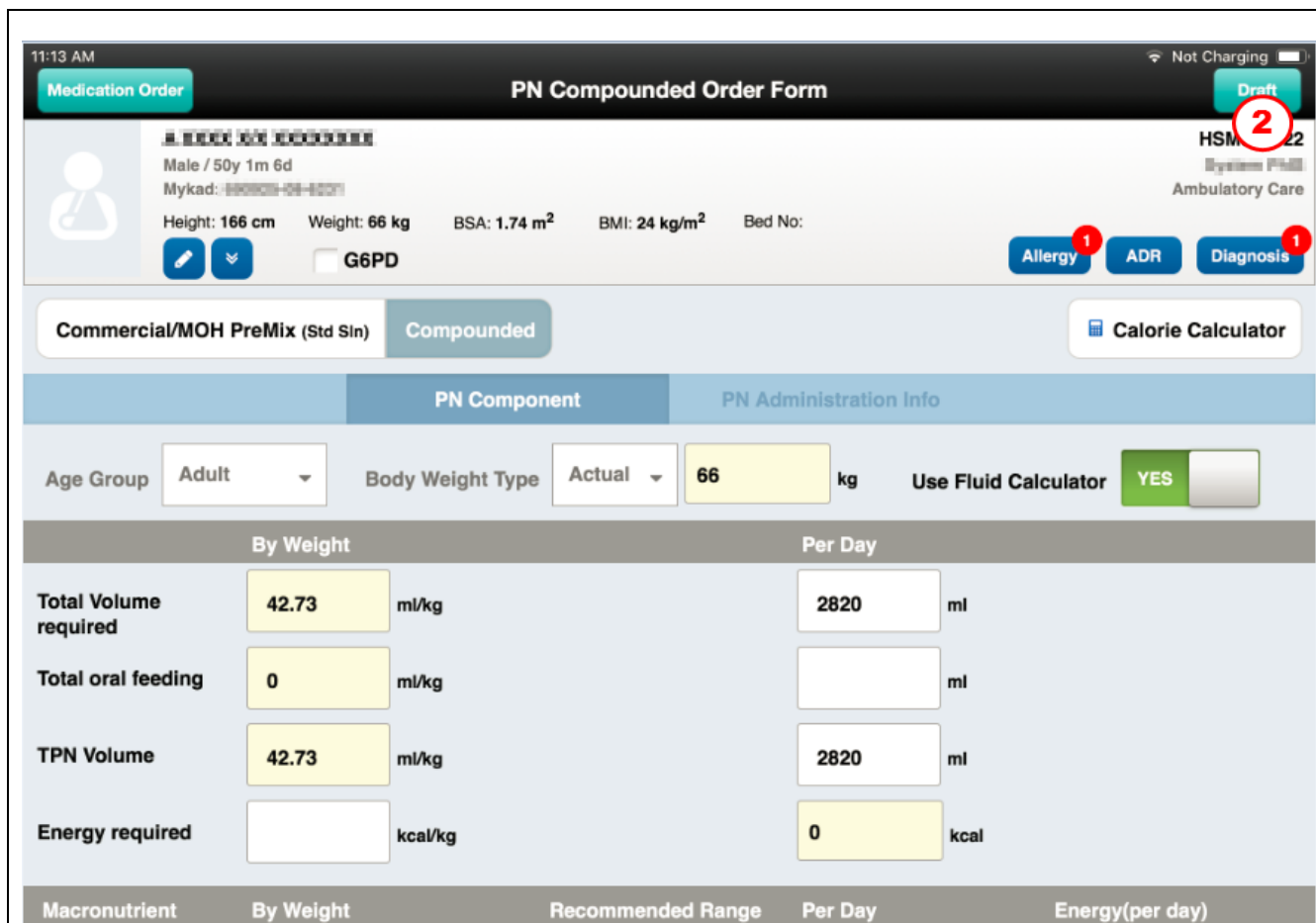
- Repeat **step 1** until **step 3** as 3.1.1 record allergy section
- Repeat **step 1** until **step 3** as 6.3 Commercial / MOH PreMix

**STEP 1**

Tap on the  button

Note

- All entered value must between the **Recommended Range (per kg)**.
- All value **Per day** and **Energy(per day)** will automatically calculate and display.
- L-Gutamin is an optional function. Value of **By weight** and **Energy(per day)** will automatically display.
- Value of **Carbohydrate:Lipid(kcal) Content, Nitrogen and NPC:Ratio** will automatically calculate and display. Value **By Weight** will automatically calculate and display after enter the **Trace elements Per day** value
- All entered value must between the **Recommended Range (per kg)**.
- **Chloride ,Cl<sup>+</sup>** and **Acetate (CH<sub>3</sub>COO)** is optional function.
- All value **Per day** will automatically calculate and display.
- Enter value of the **Trace elements Per day**. Value **By Weight** will be automatically calculated and displayed after enter the **Trace elements Per day** value.



**PN Compounded Order Form**

11:13 AM Not Charging

**Medication Order** **Draft** (2)

Male / 50y 1m 6d  
Mykad: 880808-08-1001  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
☐ G6PD

Allergy (1) ADR Diagnosis (1)

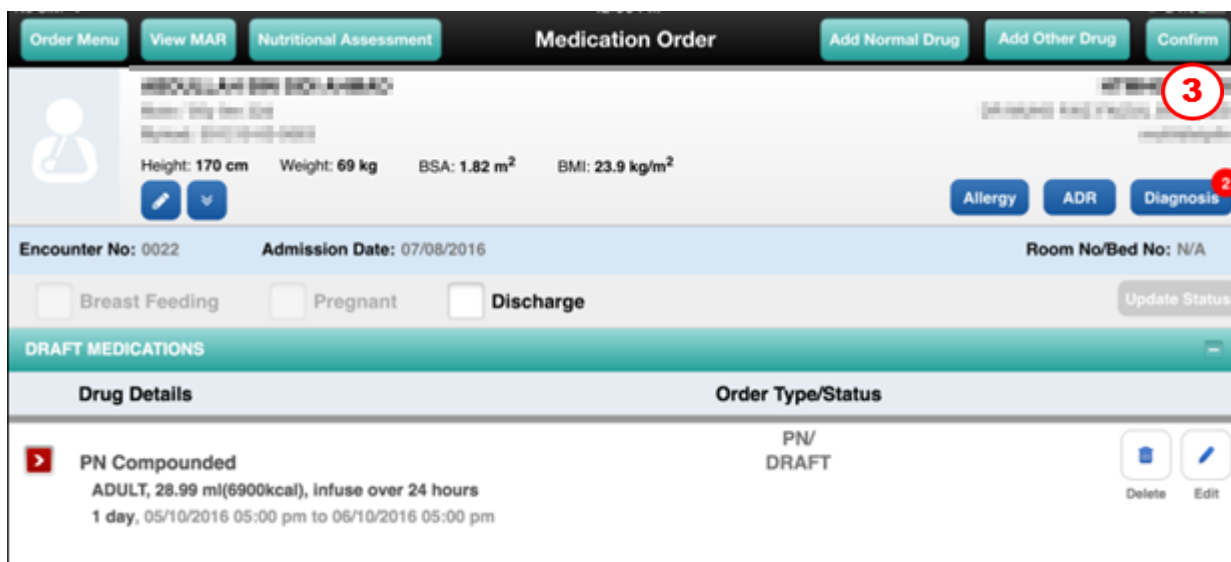
Commercial/MOH PreMix (Std Sin) **Compounded** **Calorie Calculator**

PN Component		PN Administration Info	
Age Group	Adult	Body Weight Type	Actual
		66	kg
		Use Fluid Calculator	YES
By Weight		Per Day	
Total Volume required	42.73 ml/kg	2820	ml
Total oral feeding	0 ml/kg		ml
TPN Volume	42.73 ml/kg	2820	ml
Energy required		0	kcal
Macronutrient	By Weight	Recommended Range	Per Day
			Energy(per day)

6.3-3 PN Order Screen

## STEP 2

Tap on the **Draft** button to save the prescription



**Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**

Height: 170 cm Weight: 69 kg BSA: 1.82 m<sup>2</sup> BMI: 23.9 kg/m<sup>2</sup>

Allergy ADR Diagnosis (2)

Encounter No: 0022 Admission Date: 07/08/2016 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge **Update Status**

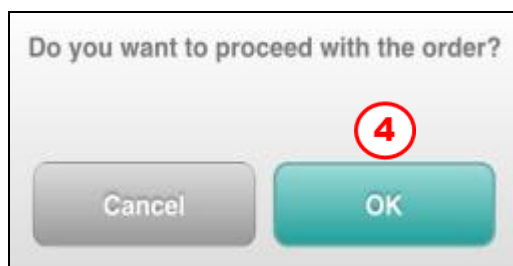
**DRAFT MEDICATIONS**

Drug Details	Order Type/Status
<b>PN Compounded</b> ADULT, 28.99 ml(6900kcal), infuse over 24 hours 1 day, 05/10/2016 05:00 pm to 06/10/2016 05:00 pm	PN/ DRAFT Delete Edit

6.3-4 PN Order Screen

## STEP 3

Tap on the **Confirm** button to add the prescription



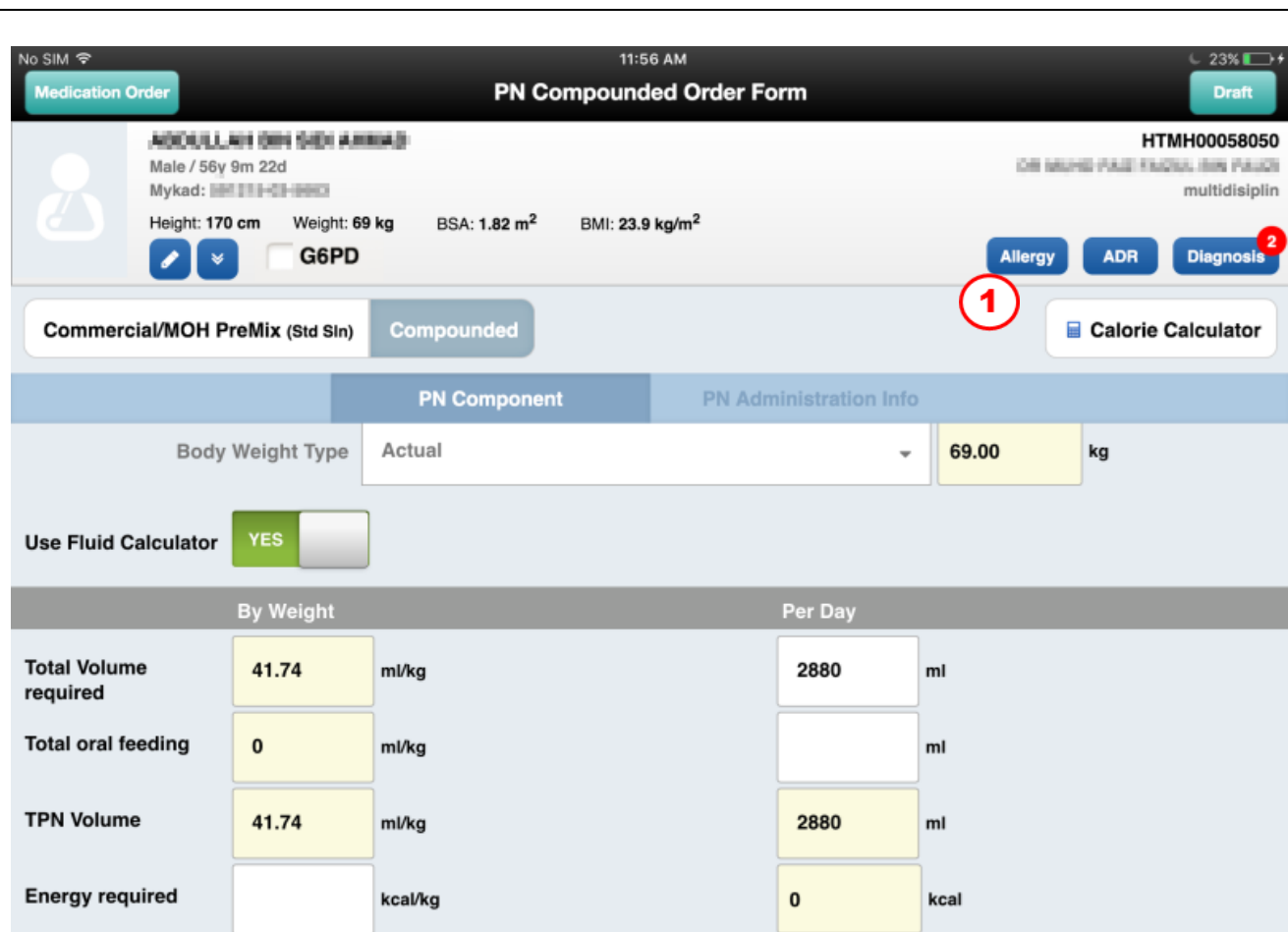
**6.3-5 PN Alert Order Screen**

**STEP 4**

Tap on the  button to proceed with the order

## 6.4 Calorie calculator

Calorie calculator allow user to calculate patient's calorie requirement. This value will out as a guideline for user to order the required TPN order for patient.

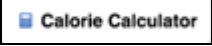


PN Component		PN Administration Info	
Body Weight Type	Actual	69.00	kg
Use Fluid Calculator	YES		

By Weight		Per Day	
Total Volume required	41.74 ml/kg	2880	ml
Total oral feeding	0 ml/kg		ml
TPN Volume	41.74 ml/kg	2880	ml
Energy required	0 kcal/kg	0	kcal

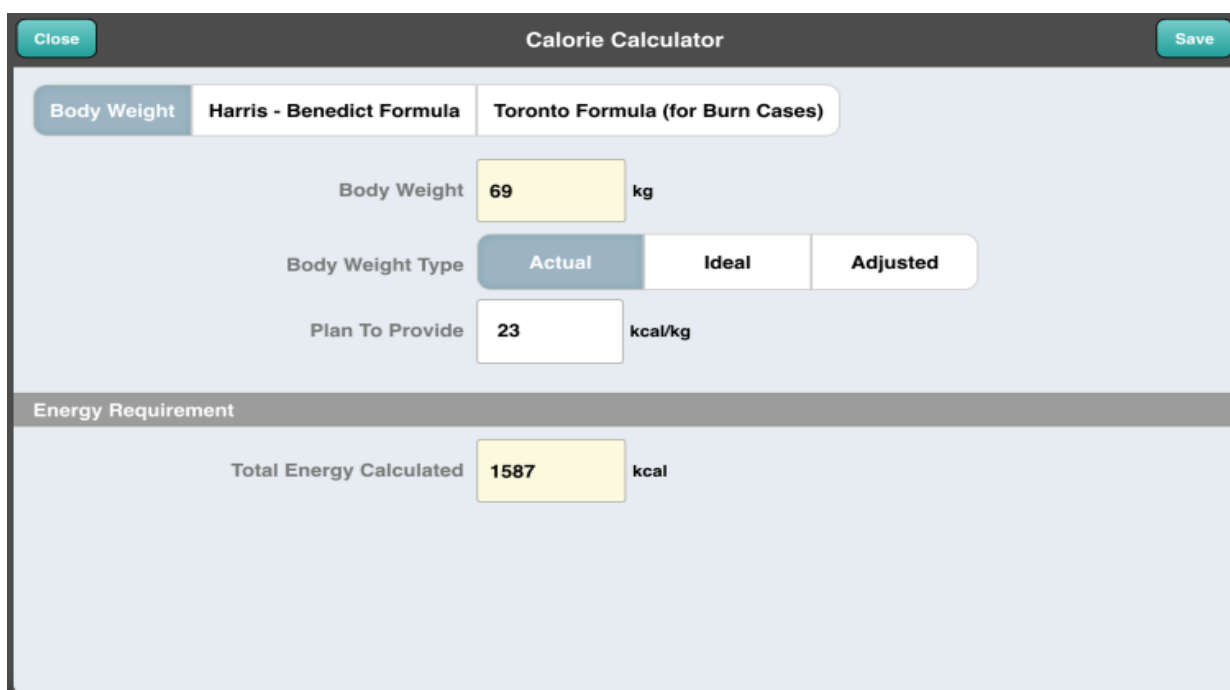
6.4-1 PN Order Screen

### STEP 1

Tap on the  button



### Note

Calorie Calculator screen will be displayed as per Figure 6.4-2



6.4-2 PN calculator Screen

**Note**

- There are 3 calculator in the system :
  - Body weight
  - Harris-Benedict Formula
  - Toronto Formula(for burn cases)
- User have to select either one of the following **Body Weight** radio button:
  - Actual Body Weight
  - Ideal
  - Adjusted
- **Body Weight** value will automatically displayed base on the information from patient profile
- Enter the amount in **Plan To Provide** (kCal/kg).
- **Total Energy Calculated** will automatically calculate and display as per Figure 6.4-2.
- Tap on the  button to save record.
- Tap on the  button to close the screen.

Close

Calorie Calculator

Save

Body Weight

Harris - Benedict Formula

Toronto Formula (for Burn Cases)

Body Weight

69

kg

Body Weight Type

Actual

Ideal

Adjusted

Include Stress/Activity Factor

YES

Stress Factor

Major surgery, major sepsis, mul...

1.2

Activity Factor

Bed

1.2

Energy Requirement

Total Energy Calculated

1587

kcal

To Provide

30.91

kcal/kg

6.4-3 PN calculator Screen



**Note**

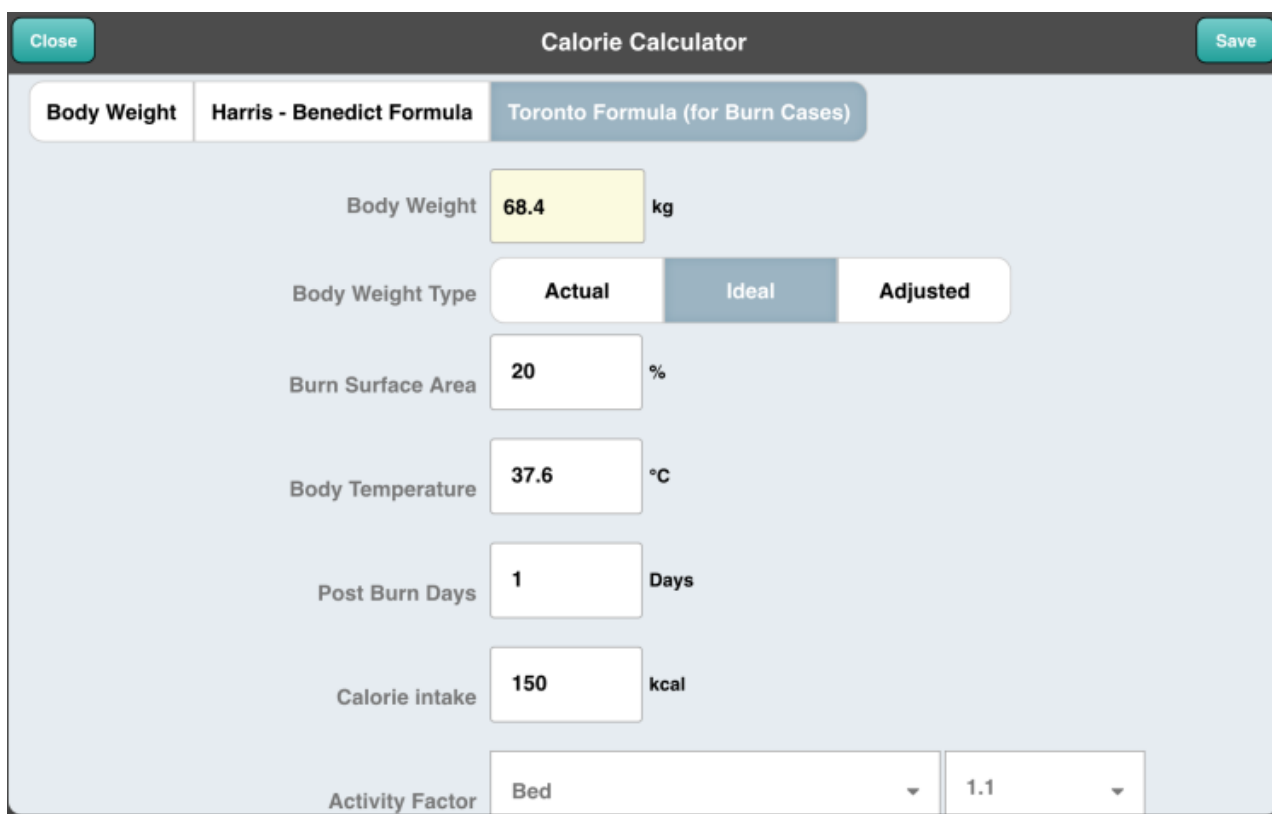
**PN Calculator : Harris-Benedict Formula**

- Select **Harris – Benedict Formula** from **PN Calculator** dropdown box.
- Select the **YES** **Include Stress/Activity Factor** checkbox.
- **Stress Factor, Activity Factor and To Provide** will display after selected the **Include Stress/ Activity Factor** checkbox.
- User have to select the type of **Stress Factor** from the dropdown box:
  - Long Bone Fracture.
  - Maintenance.
  - Major surgery, major sepsis, multipletrauma, tumour with treatment (surgery, chemotherapy or radiotherapy)(anabolic state).
  - Routine sugery, minor infection.
  - Tumour without treatment
- Value of the **Stress Factor** will automatically calculate by system.
- From the dropdown box user have to select type of **Activity Factor** list which are:
  - Bed
  - In Bed but mobile
  - Mobile



### Note

- Value of the **Activity Factor** will automatically calculate by system.
- Amount of **Total Energy Calculated** and **To Provide** will automatically calculate after selected the **Activity Factor** as per Figure 6.4-3.
- Tap on the  button to save record.
- Tap on the  button to close the screen.



The screenshot shows the 'Calorie Calculator' interface with the 'Toronto Formula (for Burn Cases)' selected. The input fields are as follows:



Field	Value	Unit
Body Weight	68.4	kg
Body Weight Type	Actual	
Burn Surface Area	20	%
Body Temperature	37.6	°C
Post Burn Days	1	Days
Calorie intake	150	kcal
Activity Factor	Bed	
Calculated Activity Factor	1.1	

6.4-4 PN calculator Screen

### Note

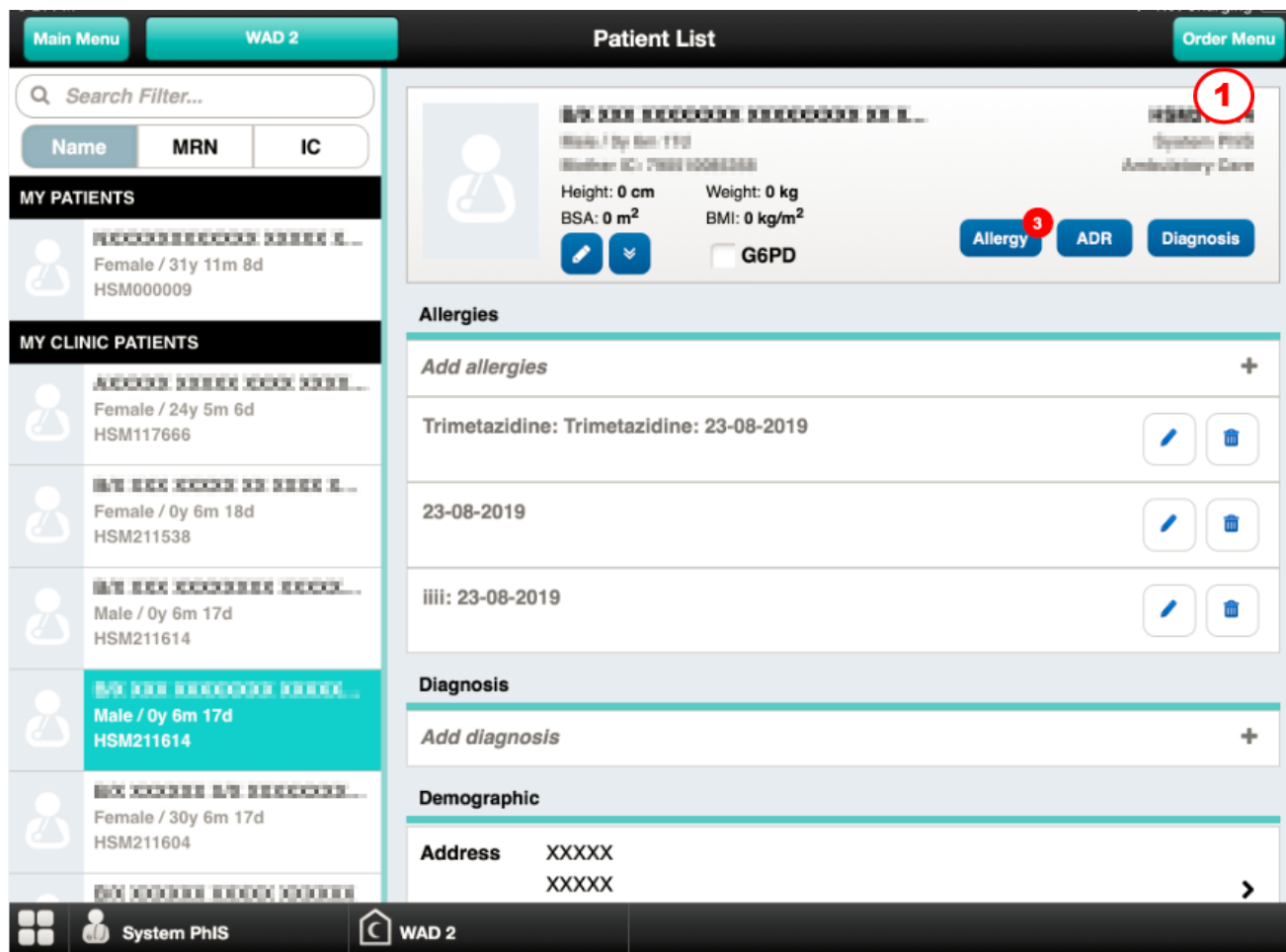
#### PN Calculator : Toronto Formula

- Select **Toronto Formula (for Burn Cases)** from **PN Calculator** dropdown box.
- Enter all field below:
  - Burn Surface Area
  - Body Temperature
  - Post Burn Days
  - Calorie Intake
- User have to select type of **Activity Factor** from the dropdown box:
  - Bed
  - In Bed but mobile
  - Mobile

- Value of the **Activity Factor** will automatically calculate by system.
- Total Energy Calculated and To Provide will automatically calculate after selected the Activity Factoras per Figure 6.4-4
- Tap on the  button to save record.
- Tap on the  button to close the screen.

## 7.0 Cytotoxic Drug Reconstitution

Cytotoxic Drug is any drug that has toxic on cells; commonly used in chemotherapy to inhibit the proliferation of cancerous cells. CDR Drug ordered as regimen through CDR Order module by prescriber. Regimen is a group of CDR drugs. Each drug within a regimen is indicated to be taken on which day/time within the cycle duration. CDR regimen will be set by HQ in Regimen Master Setup. CDR Regimen Category master setup also will be done by HQ



**Main Menu** **WAD 2** **Patient List** **Order Menu**

**Search Filter...**

**Name** **MRN** **IC**

**MY PATIENTS**

- Female / 31y 11m 8d  
HSM000009

**MY CLINIC PATIENTS**

- Female / 24y 5m 6d  
HSM117666
- Female / 0y 6m 18d  
HSM211538
- Male / 0y 6m 17d  
HSM211614
- Male / 0y 6m 17d  
HSM211614
- Female / 30y 6m 17d  
HSM211604

**1**

**2**

**3**

**Allergies**

**Add allergies** +

Trimetazidine: Trimetazidine: 23-08-2019

23-08-2019

iiii: 23-08-2019

**Diagnosis**

**Add diagnosis** +

**Demographic**

**Address** XXXXX  
XXXXX

**System PhIS** **WAD 2**

7.0-1 Order Screen

### Note

Repeat **step 1** until **step 3** as 3.1.1 record allergy section

### STEP 1

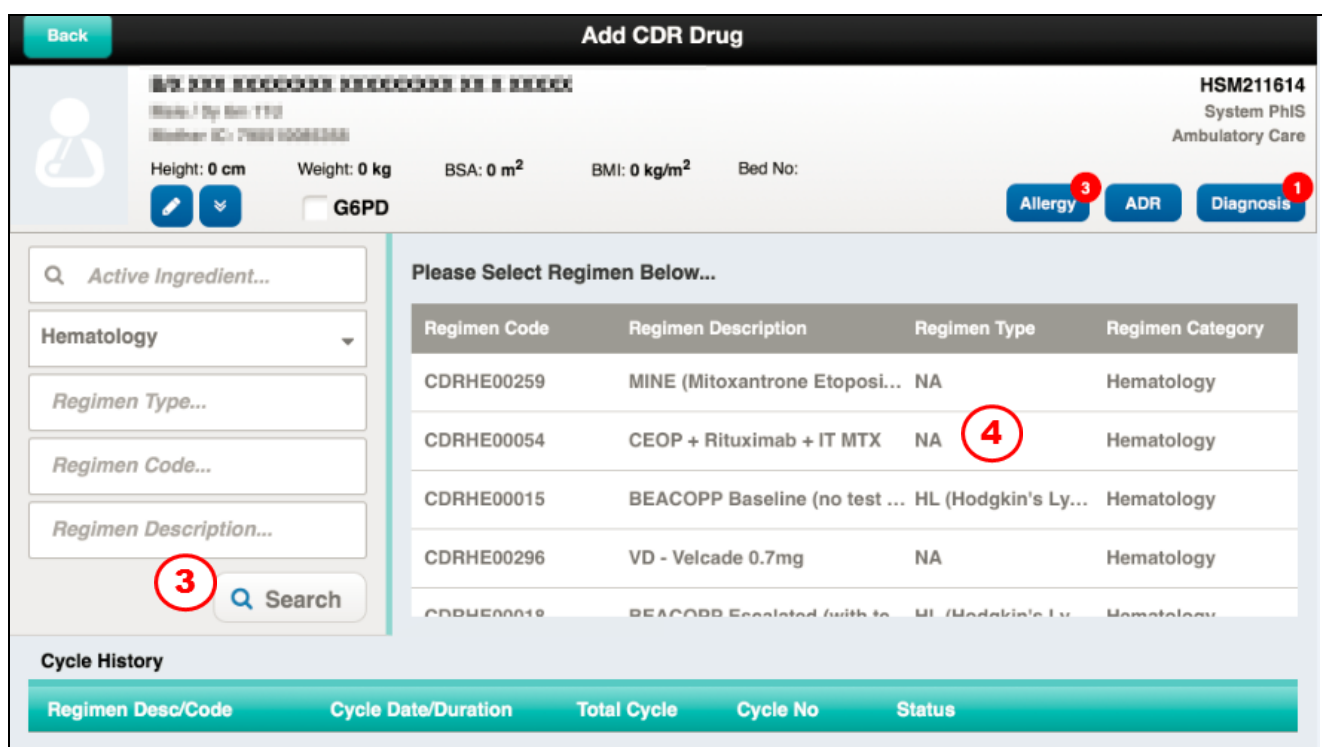
Tap on the **Order Menu**



7.0-2 Order Screen

## STEP 2

Tap on the **CDR** menu



Regimen Code	Regimen Description	Regimen Type	Regimen Category
CDRHE00259	MINE (Mitoxantrone Etoposi...	NA	Hematology
CDRHE00054	CEOP + Rituximab + IT MTX	NA	Hematology
CDRHE00015	BEACOPP Baseline (no test ...	HL (Hodgkin's Ly...	Hematology
CDRHE00296	VD - Velcade 0.7mg	NA	Hematology
CDRHE00018	BEACOPP Escalated (with to ...	HL (Hodgkin's Ly...	Hematology

7.0-3 CDR Order Screen

## STEP 2

Tap on the **CDR** menu

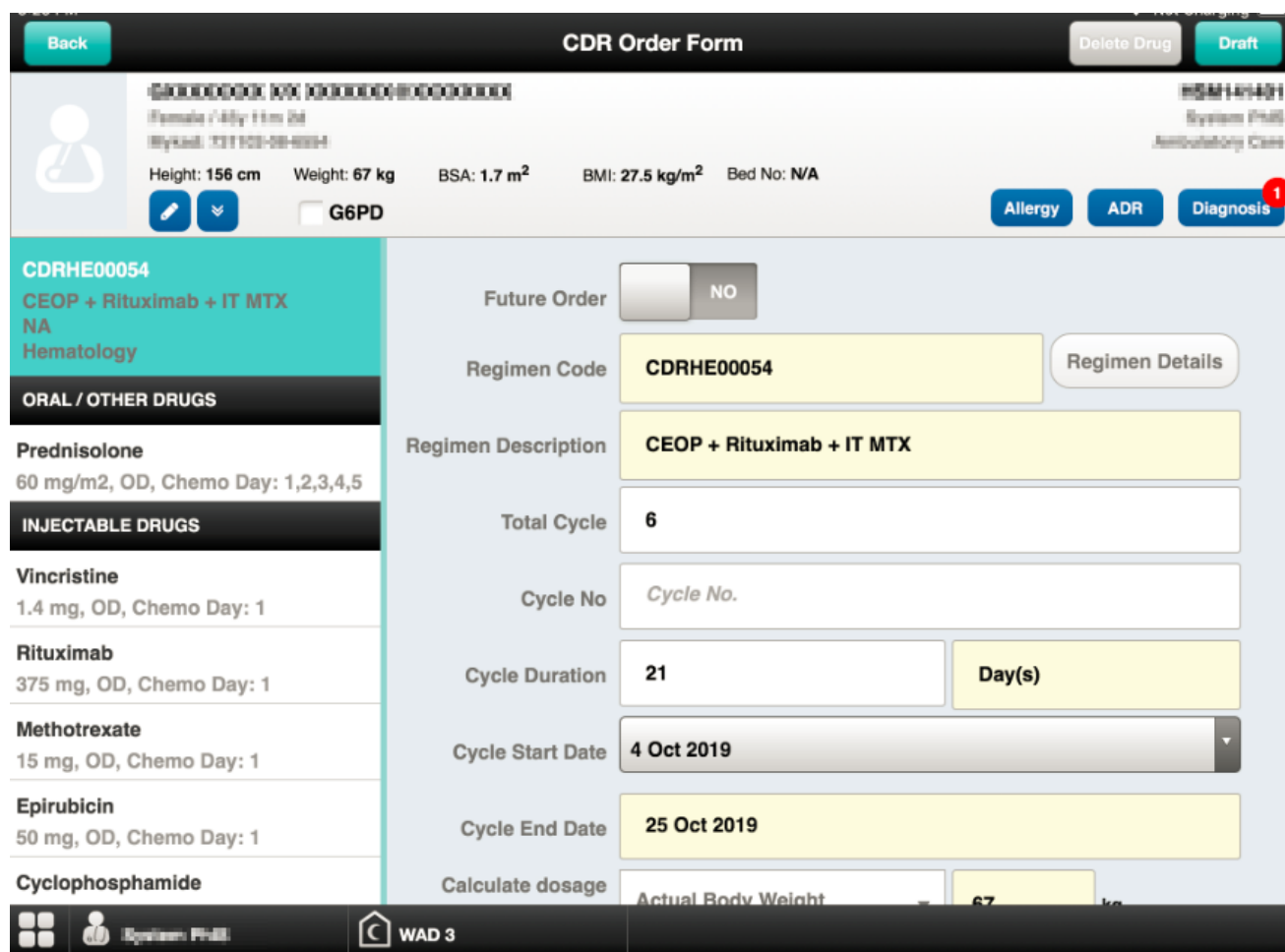
## STEP 3

Tap on the **Search** button to search regimen based on :

- Regimen Category
  - a) Hematology
  - b) Oncology
  - c) Paediatric
  - d) others
- Regimen Type
- Regimen Code
- Regimen Description

## STEP 4

Tap on the selected regimen



#### 7.0-4 CDR Order Screen

##### Note

- CDR prescription consist of **Oral/Other Drugs** and **Injectable Drugs**
- Future Order for those regimen that doctor have been confirmed for patient on upcoming visits
- Regimen Code need to be setup first in Regimen Master by HQ:
  - a) CDR Regimen Category
  - b) Regimen Master
- No. Of Cycle is number of times the regimen suggested to be taken.
- Cycle Duration is a time indication of a regimen. Within cycle duration of a regimen, no other regimen should be started.
- System will be automatically calculated cycle end date based on cycle start date and cycle duration
- Select Calculate Dose Using from dropdown box:
  - Actual Body Weight
  - Adjusted Body Weight
  - Ideal Body Weight
- System will be automatically calculated the weight (kg) according to Calculate Dosage Using selected. It will give effect on Total Dose if user selects Dosage by per kg.

- Click on the **Regimen Details** button to display regimen details as per Figure 7.0-5.

Close

Regimen Code: CDRPH00082

Category: undefined

Cycle Duration: 21

Regimen Description: B-Cell NHL Prot 902 COP


Remarks:

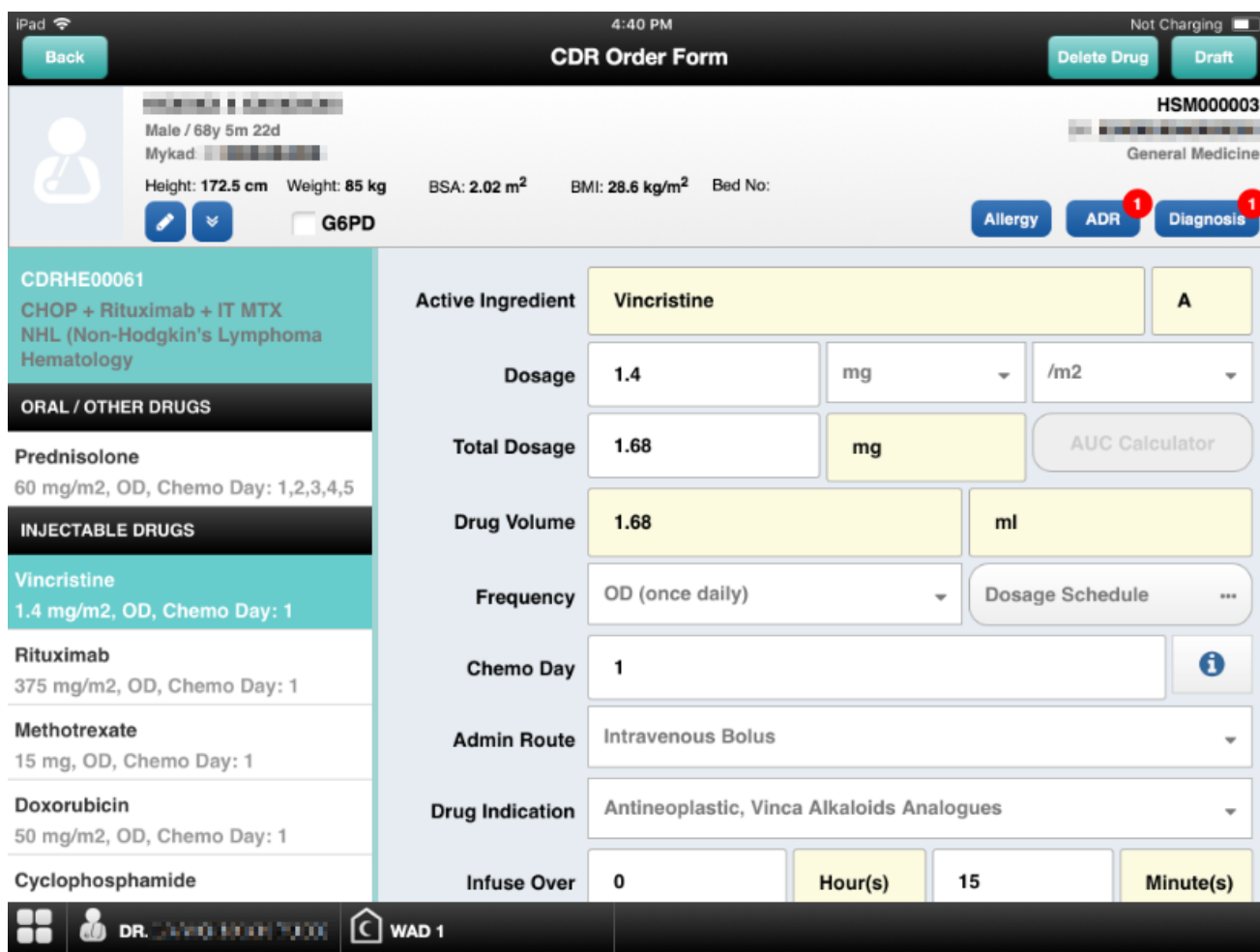
Active Ingredient	Dosage	Admin Route	Frequency	Chemo Days	Status
Prednisolone	30 mg	Oral	BD (twice daily)	1-7	Active
Cyclophosphamide	300 mg	Intravenous Slow Bolus	OD (once daily)	1	Active
Vincristine	1 mg	Intravenous Slow Bolus	OD (once daily)	1	Active

**7.0-5 CDR Regimen Order Screen**

Note

- System will be displayed prescriptions based on regimen code selected in CDR Regimen Details.
- System will be displayed Regimen Drug Details based on Regimen Code selected.
- User able to edit or update Regimen Drug Details:
  - Dosage
  - Total Dose
  - Frequency
  - Chemo Day
  - Admin Route
  - Drug Indication
  - Infuse Over
  - Diluent
  - Diluent Volume
  - Infusion Rate
- If select Dosage milligram or milliliter and 'kg' or '/m2' from dropdown menu, Total Dose will be displayed based on Calculate Dose Using selected previously in CDR Regimen Details.
- For Dose Schedule, user able to edit Date and Time dose to be taken.
- User able to edit BSA value as per figure 7.0-6. Default value BSA in CDR Order level still same as BSA from patient banner, however user can edit it in CDR order level (max up to 2 decimal) and will impact to the current CDR order only. Total dose of drugs which have dose UOM is /m2 will auto re-calculate based on the edited BSA value. Also, Diluent Volume, Total Volume, Infusion Rate, Dose Qty and Order Qty will update with latest value when changing BSA value either by edit BSA value or re-select 'Calculated Dose Using'. This not applicable on Drug with split dose.

- To delete not related drugs for that prescription, click on **Delete Drug** button as per Figure 7.0-6. System will be deleted selected drug and that drug will not be flow for dispensing. Otherwise all drugs will flow to dispensing.
- User may tap on the  to view chemo starting day e.g. chemo day one 8 until 12



**CDR Order Form**

Back | Delete Drug | Draft

Male / 68y 5m 22d  
Mykad: [Barcode]  
Height: 172.5 cm Weight: 85 kg BSA: 2.02 m<sup>2</sup> BMI: 28.6 kg/m<sup>2</sup> Bed No:  
G6PD

HSM000003  
General Medicine

Allergy ADR Diagnosis

**CDRHE00061**  
CHOP + Rituximab + IT MTX  
NHL (Non-Hodgkin's Lymphoma Hematology)

**ORAL / OTHER DRUGS**

**Prednisolone**  
60 mg/m<sup>2</sup>, OD, Chemo Day: 1,2,3,4,5

**INJECTABLE DRUGS**

**Vincristine**  
1.4 mg/m<sup>2</sup>, OD, Chemo Day: 1

**Rituximab**  
375 mg/m<sup>2</sup>, OD, Chemo Day: 1

**Methotrexate**  
15 mg, OD, Chemo Day: 1

**Doxorubicin**  
50 mg/m<sup>2</sup>, OD, Chemo Day: 1

**Cyclophosphamide**

**Active Ingredient** Vincristine **A**

**Dosage** 1.4 mg /m<sup>2</sup>

**Total Dosage** 1.68 mg **AUC Calculator**

**Drug Volume** 1.68 ml

**Frequency** OD (once daily) **Dosage Schedule** ...

**Chemo Day** 1 **i**

**Admin Route** Intravenous Bolus

**Drug Indication** Antineoplastic, Vinca Alkaloids Analogues

**Infuse Over** 0 Hour(s) 15 Minute(s)

DR. [Name] WAD 1

7.0-6 CDR Regimen Order Screen

- User may update all the Injectable drug details with white column to edit or update as per Figure 7.0-6



iPad 10:43 AM Not Charging

**CDR Order Form**

Back Delete Drug Draft

XXXX XXX XXXXX HS 0018  
Male / 64y 9m 9d DR. XXXXXXXXXXXX  
Mykad: 54 XXXXXXXX General Medicine

Height: 172 cm Weight: 66 kg BSA: 1.78 m<sup>2</sup> BMI: 22.3 kg/m<sup>2</sup> Bed No: ☐ G6PD Allergy ADR Diagnosis

**CDRHE00061**  
CHOP + Rituximab + IT MTX  
NHL (Non-Hodgkin's Lymphoma Hematology)

**ORAL / OTHER DRUGS**  
Prednisolone  
60 mg/m<sup>2</sup>, OD, Chemo Day: 1,2,3,4,5

**INJECTABLE DRUGS**  
Vincristine  
1.4 mg/m<sup>2</sup>, OD, Chemo Day: 1  
Rituximab  
375 mg/m<sup>2</sup>, OD, Chemo Day: 1  
Methotrexate  
15 mg, OD, Chemo Day: 1  
Doxorubicin  
50 mg/m<sup>2</sup>, OD, Chemo Day: 1  
Cyclophosphamide

Regimen Code: CDRHE00061 Regimen Details

Regimen Description: CHOP + Rituximab + IT MTX

Total Cycle: 6

Cycle No: 1

Cycle Duration: 21 Day(s)

Cycle Start Date: 29 Jul 2019

Cycle End Date: 19 Aug 2019

Calculate dosage using: Actual Body Weight 66 kg

BSA: 1.78 m<sup>2</sup>

DR. XXXXXXXXXXXX WAD 1

7.0-6 CDR Order Screen

## STEP 5

Tap on the **Draft** button to save the regimen

Order Menu View MAR Nutritional Assessment Medication Order Add Normal Drug Add Other Drug Confirm

XXXXXXXXXX 41401  
Female / 64y 11m 2d PhIS  
Mykad: 111 1111-11111111 Ambulatory Care

Height: 156 cm Weight: 67 kg BSA: 1.7 m<sup>2</sup> BMI: 27.5 kg/m<sup>2</sup> Bed No: N/A Allergy ADR Diagnosis

Encounter No: 0672 Admission Date: 07/03/2019 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD Update Status

**DRAFT MEDICATIONS**

Drug Details	Order Type/Status	
W30000824390 CEOP + Rituximab + IT MTX Hematology, 21 D, 04/10/2019 to 25/10/2019	CDR/ DRAFT	Delete Edit

7.0-7 CDR Order Screen


## STEP 6

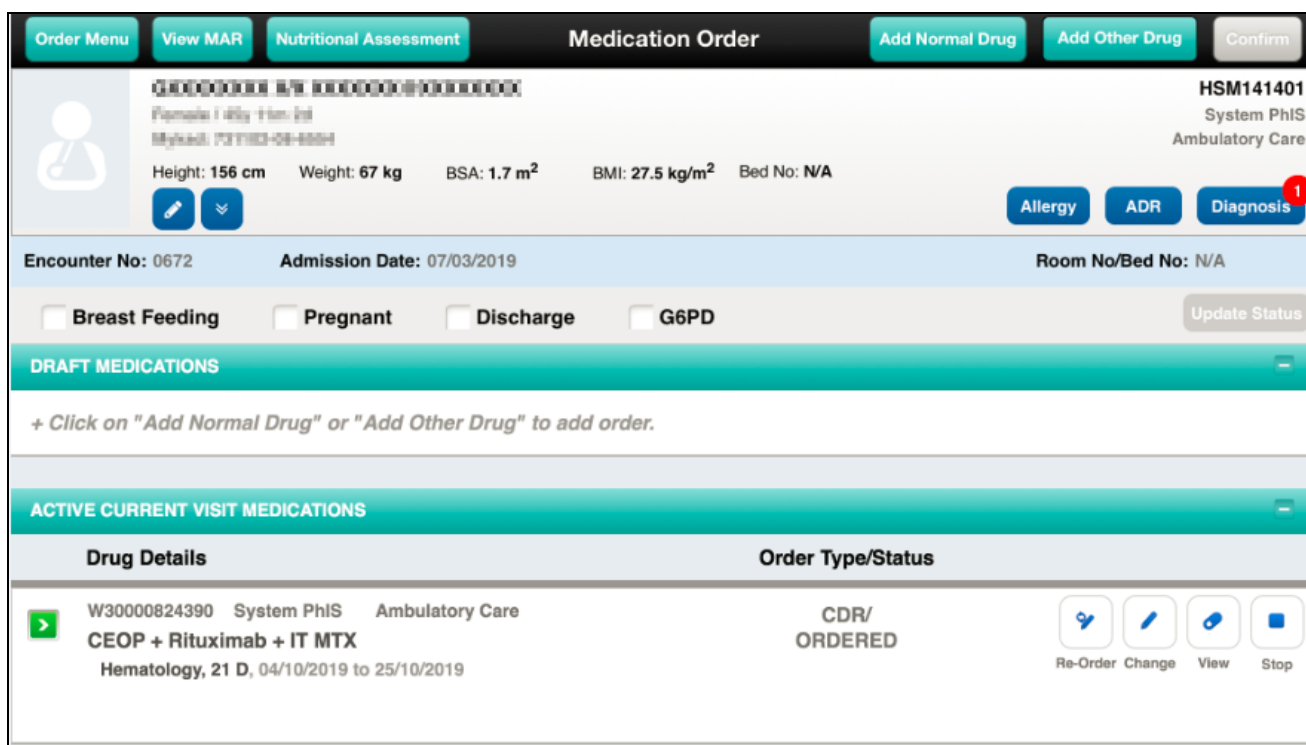
Tap on the  button to add the regimen in the prescription



7.0-7 CDR Alert Message

## STEP 7

Tap on the  button to send the prescription to pharmacy



**Order Menu** **View MAR** **Nutritional Assessment** **Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**

**Patient Information:**  
 Female / 45y / 156cm / 67kg  
 Height: 156 cm Weight: 67 kg BSA: 1.7 m<sup>2</sup> BMI: 27.5 kg/m<sup>2</sup> Bed No: N/A





**Encounter No:** 0672 **Admission Date:** 07/03/2019 **Room No/Bed No:** N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD **Update Status**

**DRAFT MEDICATIONS**

+ Click on "Add Normal Drug" or "Add Other Drug" to add order.

**ACTIVE CURRENT VISIT MEDICATIONS**

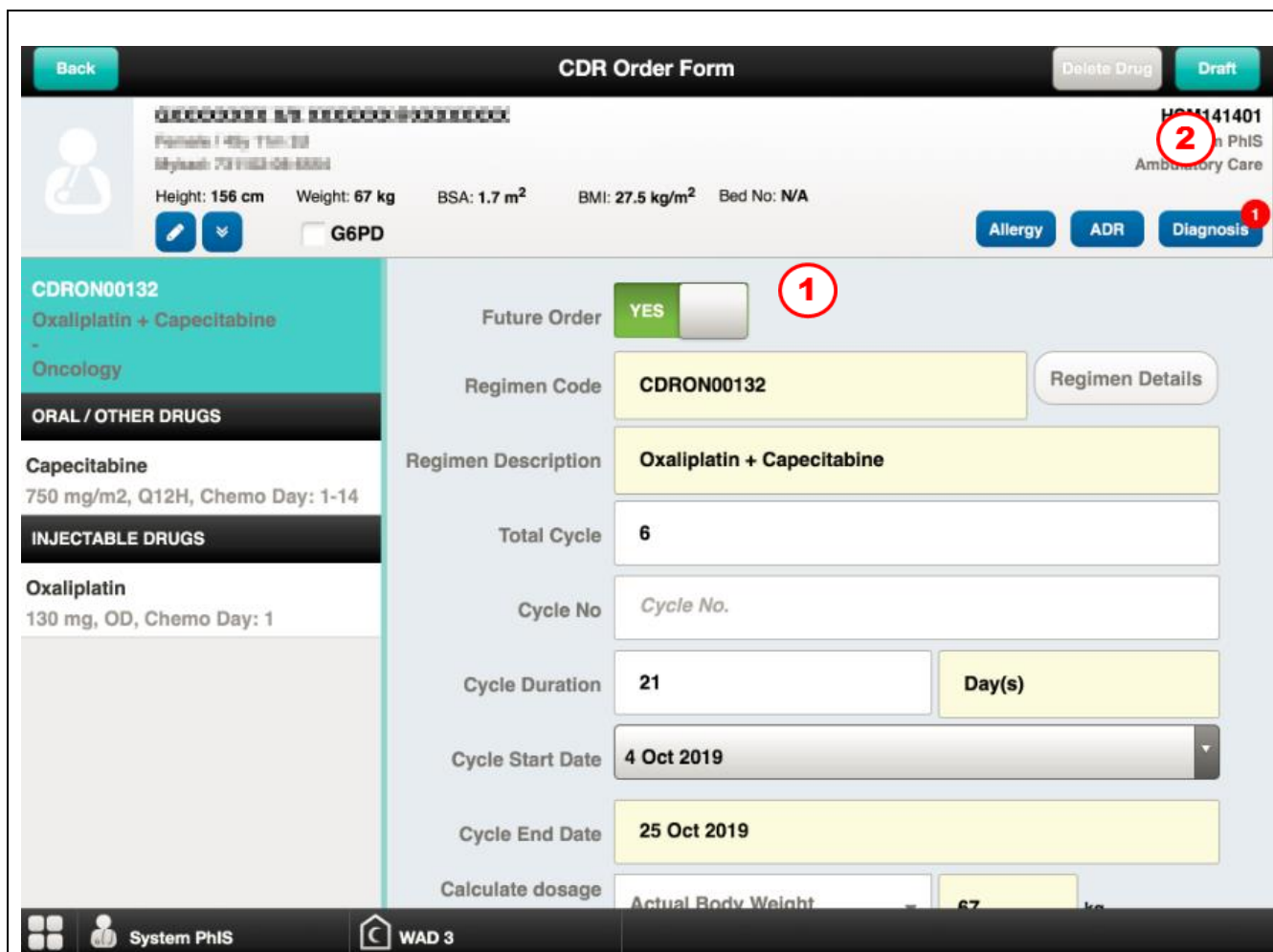
Drug Details	Order Type/Status	Actions
<b>W30000824390</b> System PhIS Ambulatory Care <b>CEOP + Rituximab + IT MTX</b> Hematology, 21 D, 04/10/2019 to 25/10/2019	CDR/ ORDERED	    Re-Order Change View Stop

7.0-8 CDR Order Screen

### Note

Confirmed prescription will be displayed as per Figure 7.0-8

## 7.1 CDR Future Order



7.1-1 CDR Order Screen

### Note

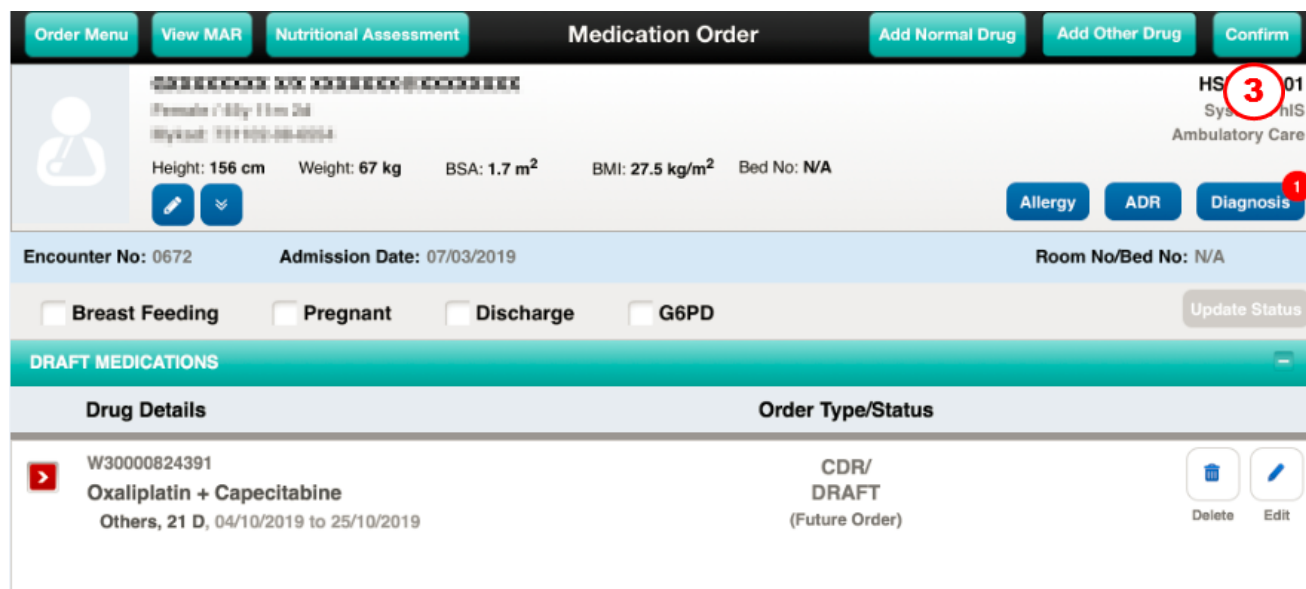
Repeat **step 1** until **step 4** as section 7.0 Cytotoxic Drug Reconstitution

### STEP 1

Tap on the **Future Order**  button

### STEP 2

Tap on the  button to save the regimen



**Order Menu** **View MAR** **Nutritional Assessment** **Medication Order** **Add Normal Drug** **Add Other Drug** **Confirm**



HS 01  
Sys PhIS  
Ambulatory Care

Height: 156 cm Weight: 67 kg BSA: 1.7 m<sup>2</sup> BMI: 27.5 kg/m<sup>2</sup> Bed No: N/A

Encounter No: 0672 Admission Date: 07/03/2019 Room No/Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD **Update Status**

**DRAFT MEDICATIONS**

Drug Details	Order Type/Status	
W30000824391 Oxaliplatin + Capecitabine Others, 21 D, 04/10/2019 to 25/10/2019	CDR/ DRAFT (Future Order)	  Delete Edit

### 7.1-2 CDR Order Screen

#### STEP 3

Tap on the  button to add the regimen in the prescription



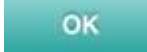
Do you want to proceed with the order?

**4**

Cancel OK

### 7.1-3 CDR Alert Message

#### STEP 4

Tap on the  button to send the prescription to pharmacy

Back

Add CDR Drug

HTMH00058050

DR MUHD FAIZ FAIZUL BIN FAUZI

multidisiplin

Height: 170 cm

Weight: 69 kg

BSA: 1.82 m<sup>2</sup>

BMI: 23.9 kg/m<sup>2</sup>

G6PD

Allergy

ADR

Diagnosis <sup>2</sup>

- All Regimen Category -

Regimen Type...

Regimen Code...

Regimen Description...

Search

Please Select Regimen Below...

Regimen Code	Regimen Description	Regimen Type	Regimen Category
Search and select a CDR here to proceed.			


Cycle History

Regimen Desc/Code	Cycle Date/Duration	Total Cycle	Cycle No	Status		
B-Cell NHL Prot 902 COP CDRPH00082	05/10/2016 to 26/10/2016 (21 days)	1	1	ORDER WAS CANCELED		
B-Cell NHL Prot 902 COP CDRPH00082	05/10/2016 to 26/10/2016 (21 days)	1	6	ORDERED (Future Order)		

WAD 1

7.1-4 CDR Order Screen

## STEP 5

Tap on the  button to approve future order

## 7.2 View MAR

View MAR is used to view the medication chart in the system

### 7.2.1 View MAR – Graph View

View MAR Graph View is used to view the medication chart in Graph format

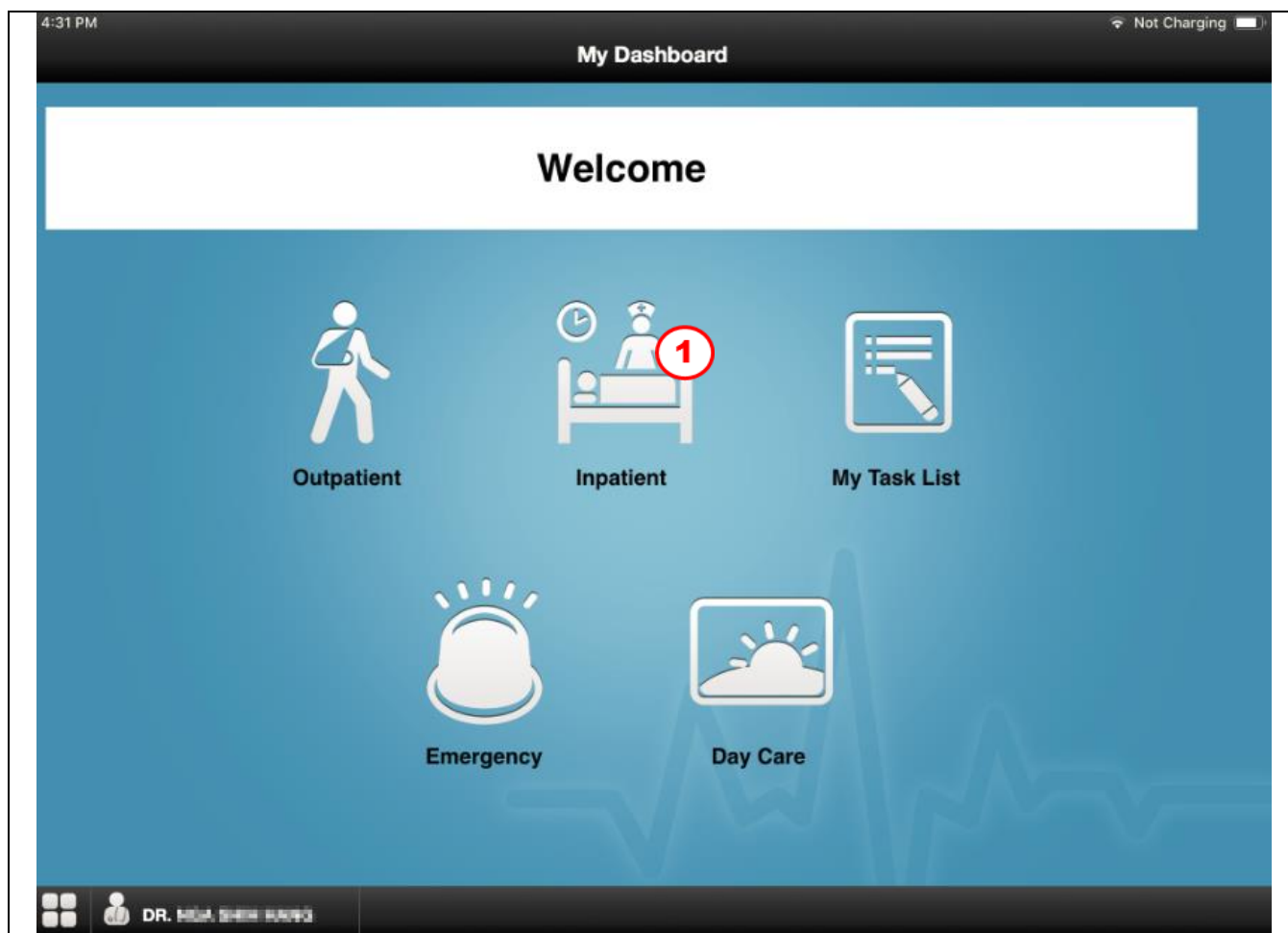


Figure 7.2.1-1 Main Page

#### STEP 1

Tap on Inpatient Icon

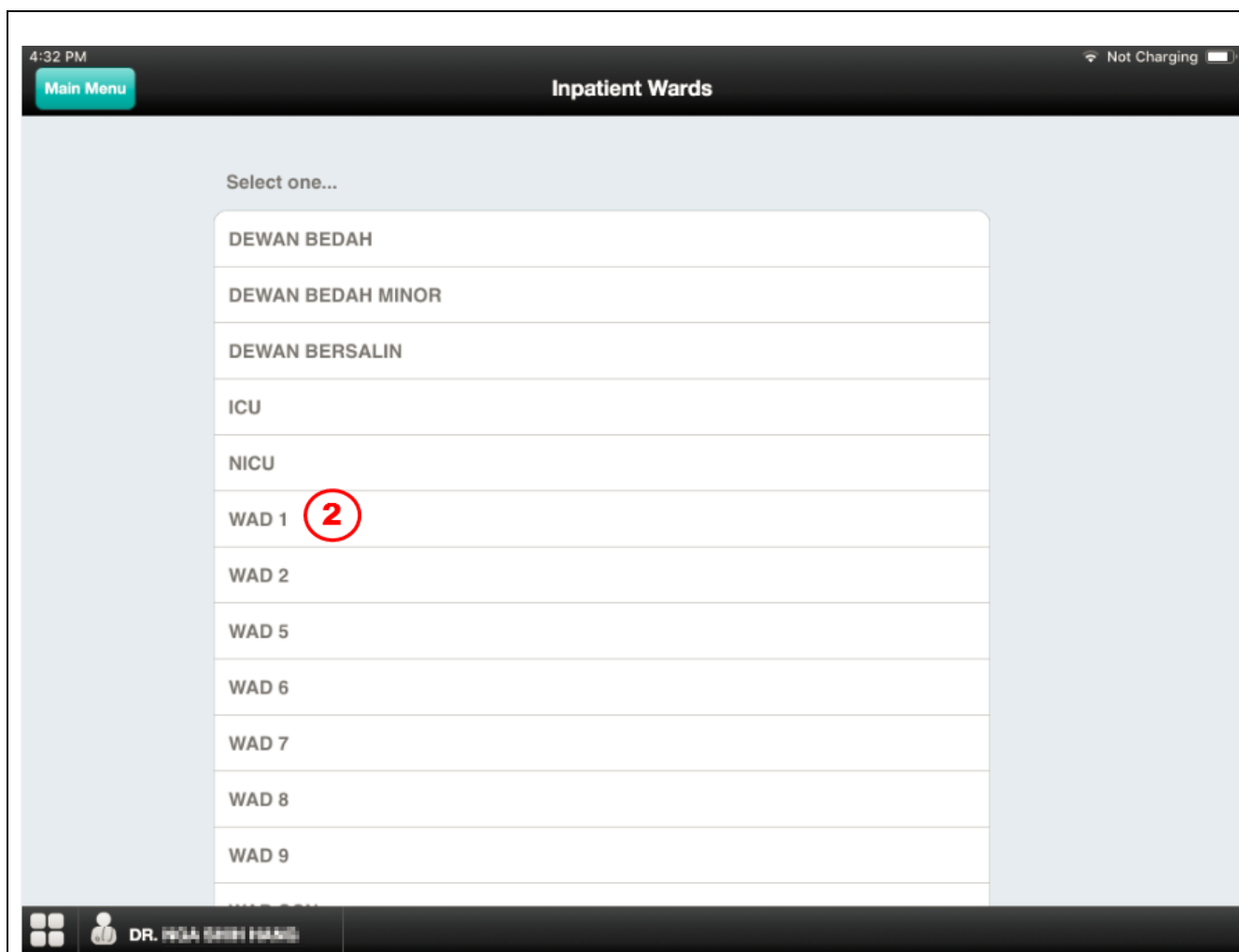


Figure 7.2.1-2 Location Screen Listing Page

**STEP 2**

Tap on the selected location e.g Dewan Bedah 1, WAD 1 to select patient

4:03 PM

Main Menu

WAD 1

Patient List

Order Menu

Search Filter...

Name

MRN

IC

MY PATIENTS

Female / 3y 4m

HSM00211628

3

Female / 27y 0m 9d

HSM093179

MY CLINIC PATIENTS

Male / 50y 1m 11d

HSM000022

Male / 76y 5m 22d

HSM001850

Male / 77y 4m 29d

HSM001795

Male / 73y 9m 9d

HSM018428

Female / 3y 4m 11d

Mykad: HSM00211628

Height: 75 cm

Weight: 14 kg

BSA: 0.54 m<sup>2</sup>

BMI: 24.9 kg/m<sup>2</sup>

G6PD

HSM00211628

DR. NGIA SHIH HANG

General Paediatrics

Allergy

ADR

Diagnosis

Allergies

Add allergies

Diagnosis

Add diagnosis

test

Demographic

Address

Contact No.

Pharmacist Note

Date/Time


Visit Location

Type of Service

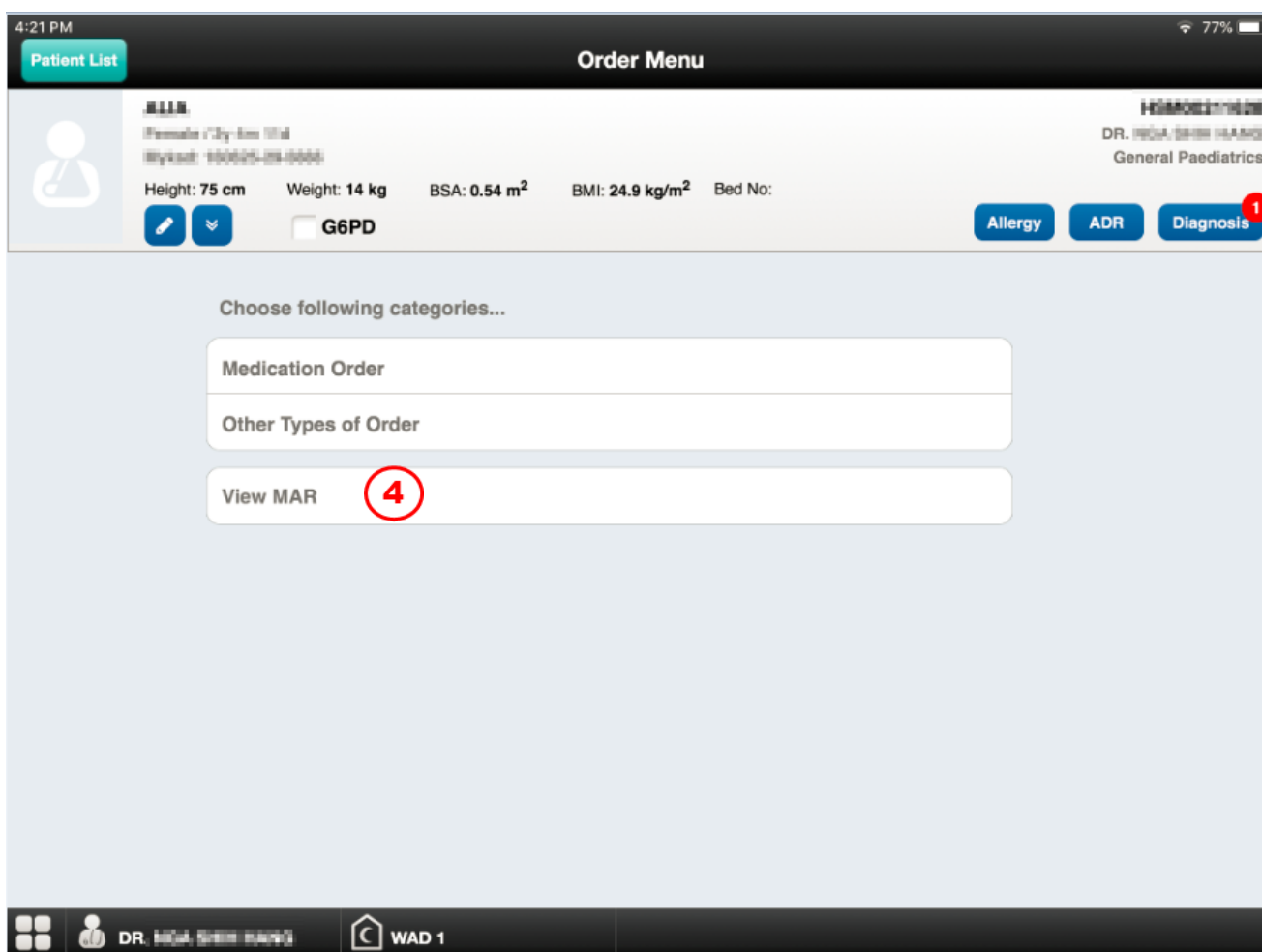
Pharmacist Notes

**Figure 7.2.1-3 Patient Listing Page**

### STEP 3

Tap on selected patient name or search the patient by using  field. System will display as Figure 7.2.1-3





4:21 PM 77%

Patient List Order Menu

DR. [Name] General Paediatrics

Height: 75 cm Weight: 14 kg BSA: 0.54 m<sup>2</sup> BMI: 24.9 kg/m<sup>2</sup> Bed No:

☐ G6PD

Allergy ADR Diagnosis

Choose following categories...

Medication Order

Other Types of Order

View MAR 4

DR. [Name] WAD 1

Figure 7.2.1-4 Medication Order Page

**STEP 4**

Tap on the **View MAR**

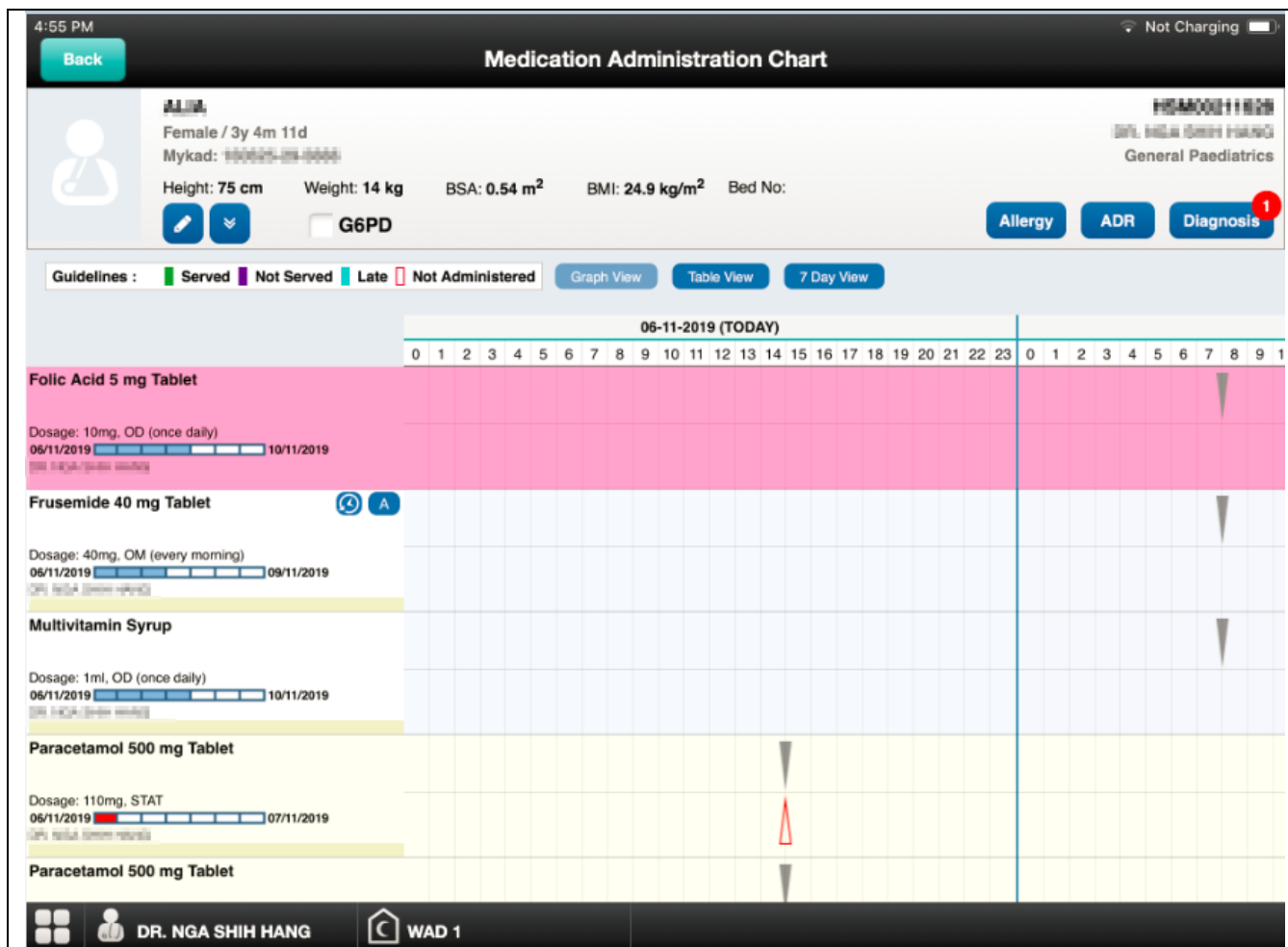




Figure 7.2.1-5 View MAR Graph View

**Note**

The  icon indicates the drug has an alternate record. Tapping the  icon will display the Alternate Drug List

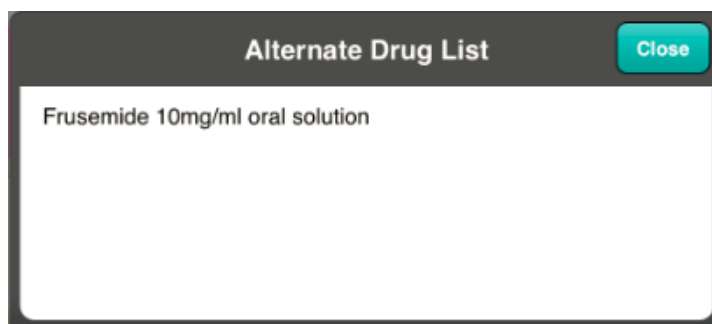




Figure 7.2.1-6 Alternate Drug List

The  icon indicates that the drug has a history record. Tapping the  icon will display the History Records

History Records			Close
Frusemide 40 mg Tablet			
System Pres	Ambulatory Care		
Frusemide 40 mg Tablet			
40 mg, OM (every morning), 5 D, 30/09/2019 19:43:00 to 05/10/2019 19:43:00			
Frusemide 40 mg Tablet			
40 mg, OM (every morning), 5 D, 30/09/2019 19:24:00 to 05/10/2019 19:24:00			
Frusemide 40 mg Tablet			
40 mg, OM (every morning), 4 D, 31/07/2019 11:49:00 to 04/08/2019 11:49:00			

Figure 7.2.1-7 History Records

### Discontinued Drug in View MAR

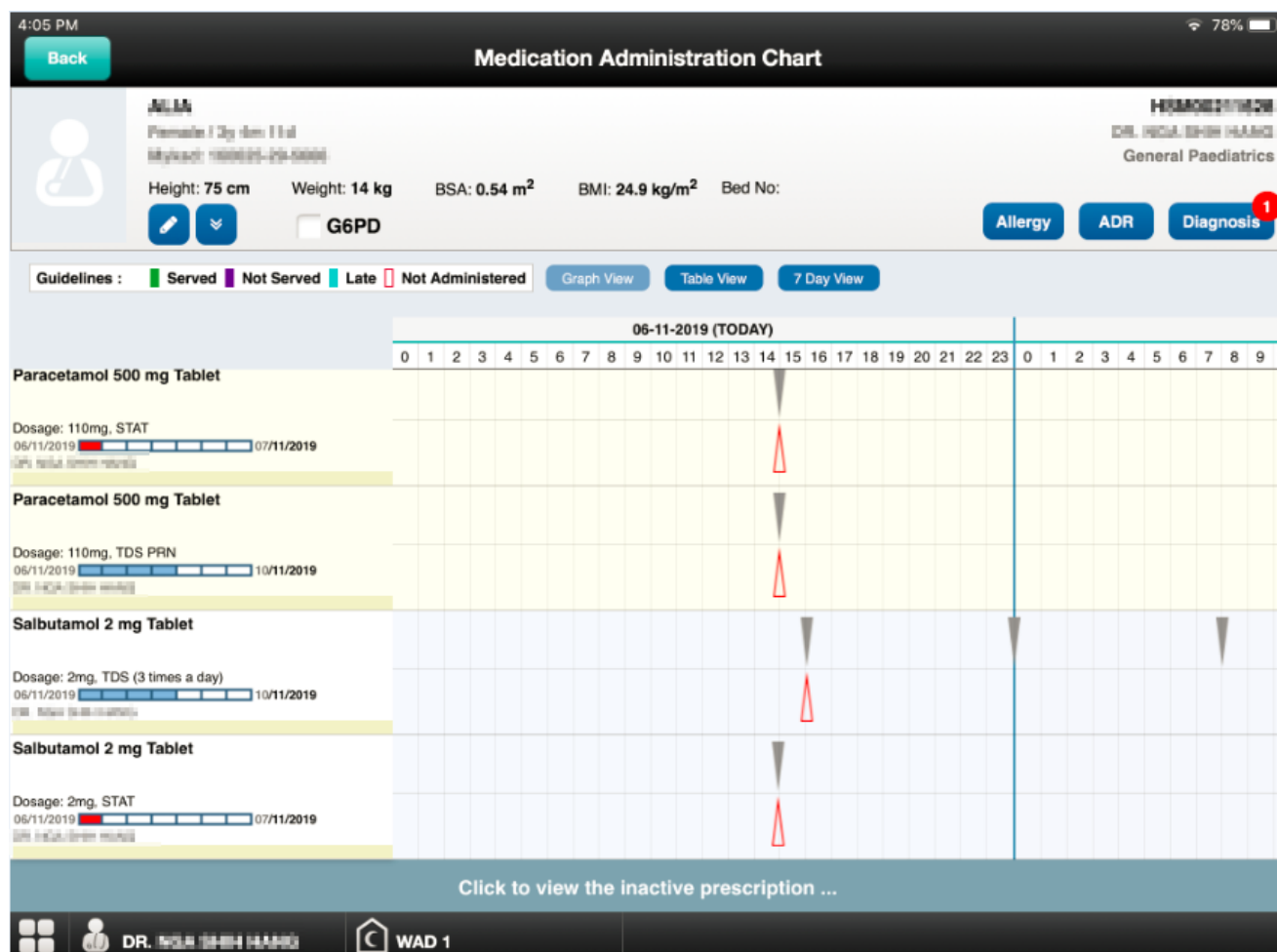


Figure 7.2.1-8 View MAR

- User need to tap [Click to view the inactive prescription ...](#) to view inactive prescription as per Figure 7.2.1-8

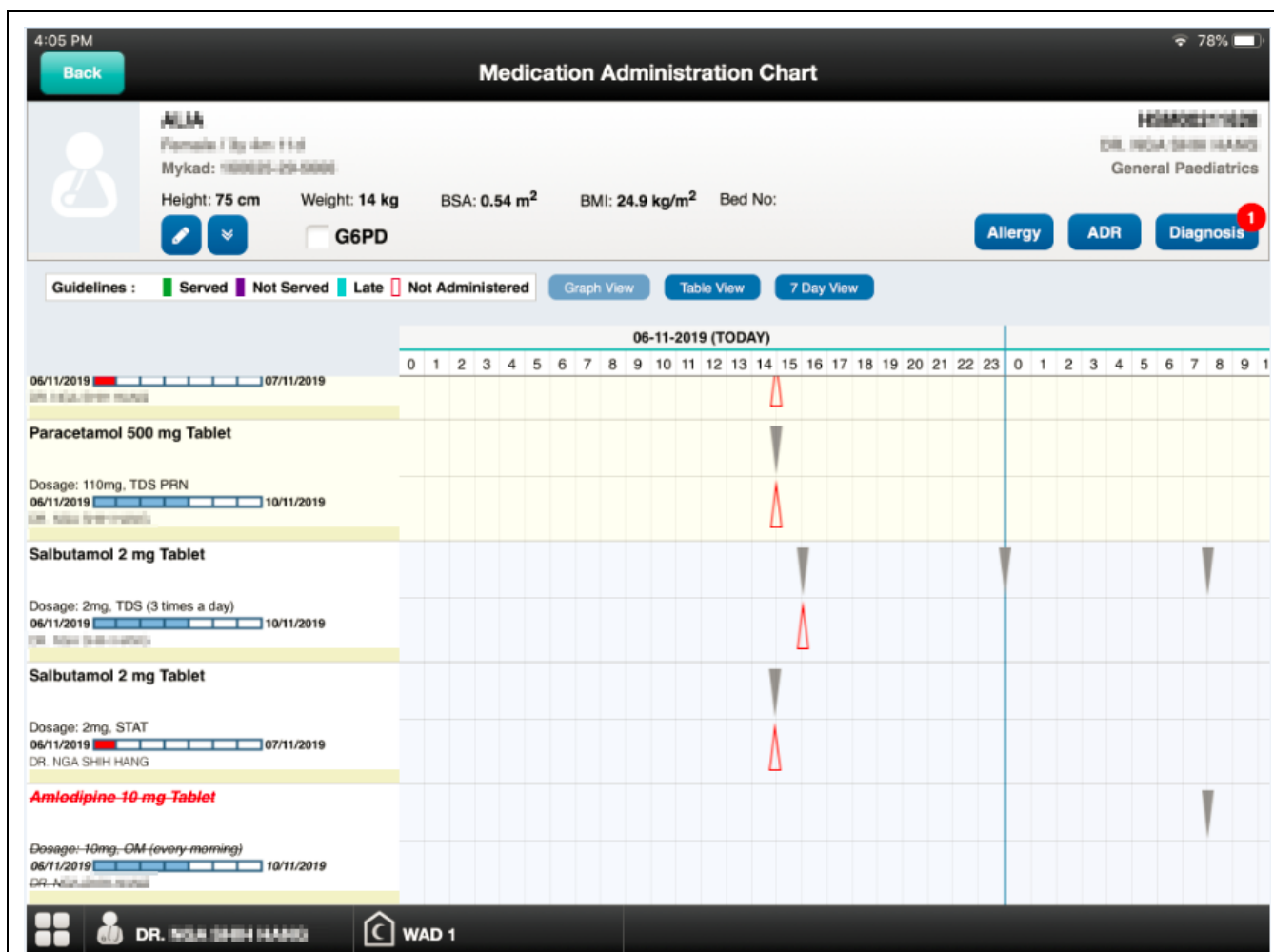


Figure 7.2.1-9 View MAR

- MAR Dialog status updated to Discontinue and strike through in red colour as per Figure 7.2.1-9

### 7.2.2 View MAR – Table View

View MAR Table View is used to view the medication chart in Table format

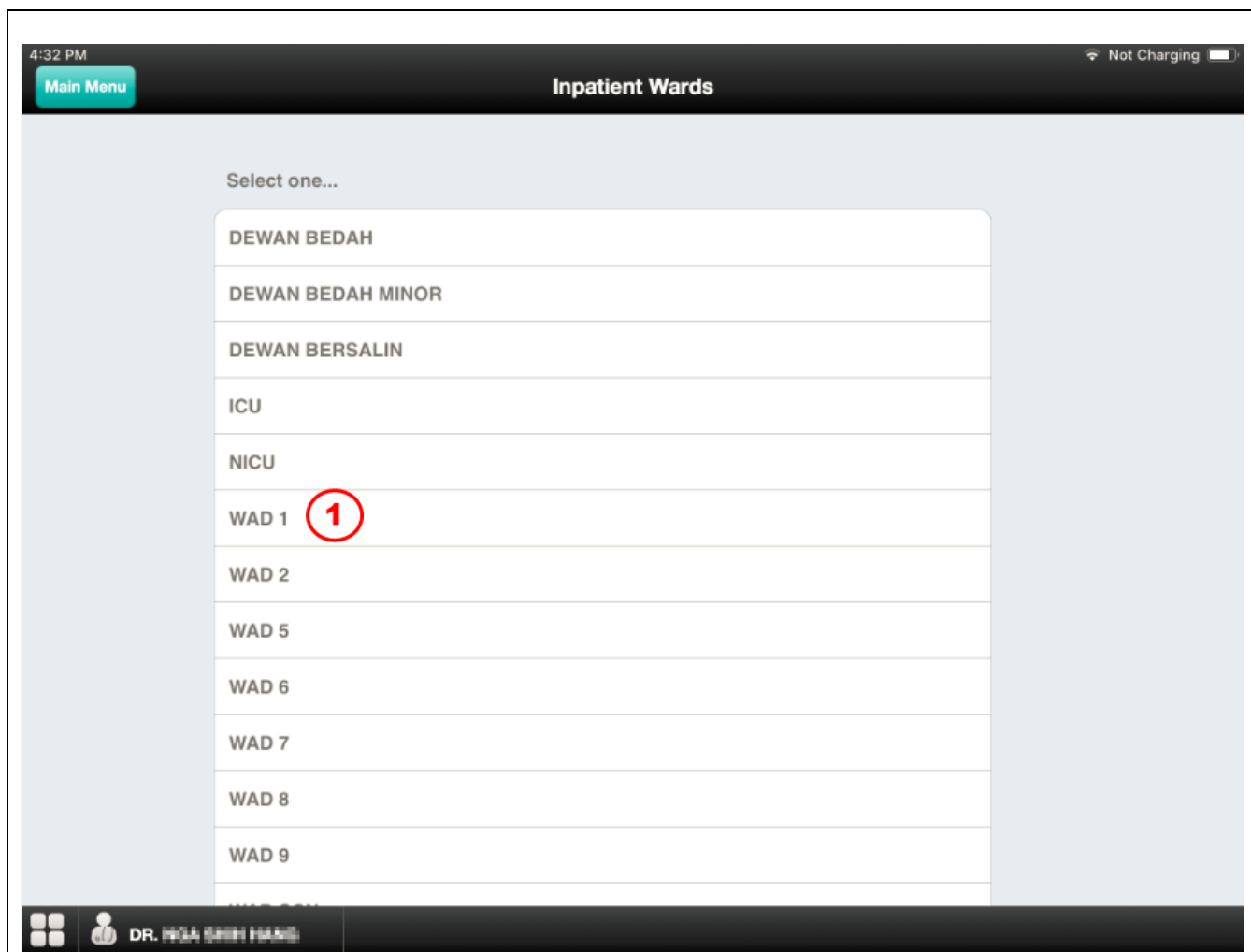
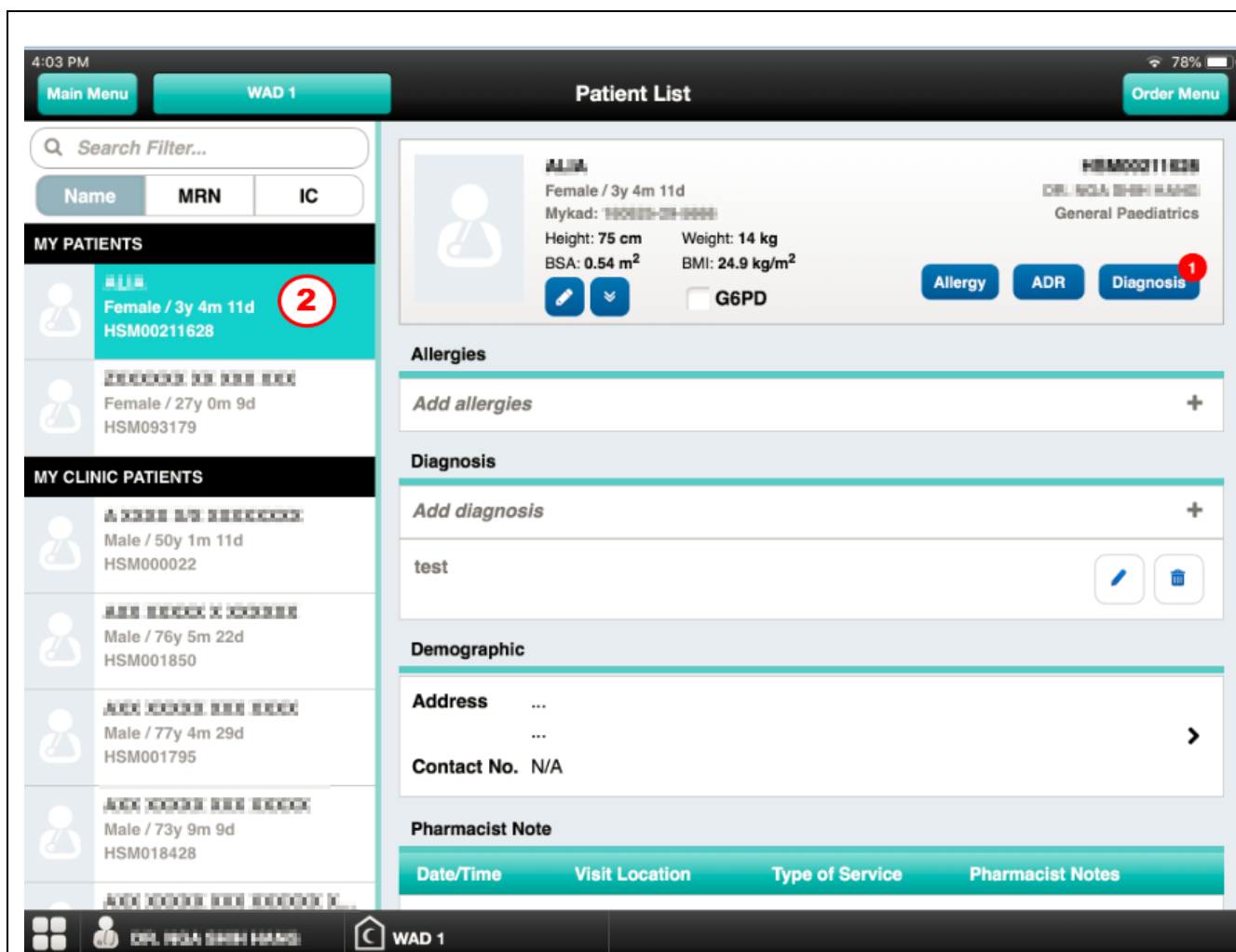


Figure 7.2.2-1 Location Screen Listing Page

#### STEP 1

Tap on the selected location e.g Dewan Bedah 1, WAD 1 to select patient



4:03 PM 78%

Main Menu WAD 1 Patient List Order Menu

Search Filter...

Name MRN IC

MY PATIENTS

Female / 3y 4m 11d HSM00211628 **2**

Female / 27y 0m 9d HSM093179

MY CLINIC PATIENTS

Male / 50y 1m 11d HSM000022

Male / 76y 5m 22d HSM001850

Male / 77y 4m 29d HSM001795

Male / 73y 9m 9d HSM018428

Female / 3y 4m 11d  
Mykad: 110000-20-110000  
Height: 75 cm Weight: 14 kg  
BSA: 0.54 m<sup>2</sup> BMI: 24.9 kg/m<sup>2</sup>  
G6PD

General Paediatrics

Allergy ADR Diagnosis **1**

Allergies

Add allergies +

Diagnosis

Add diagnosis +

test

Demographic

Address ...

Contact No. N/A

Pharmacist Note

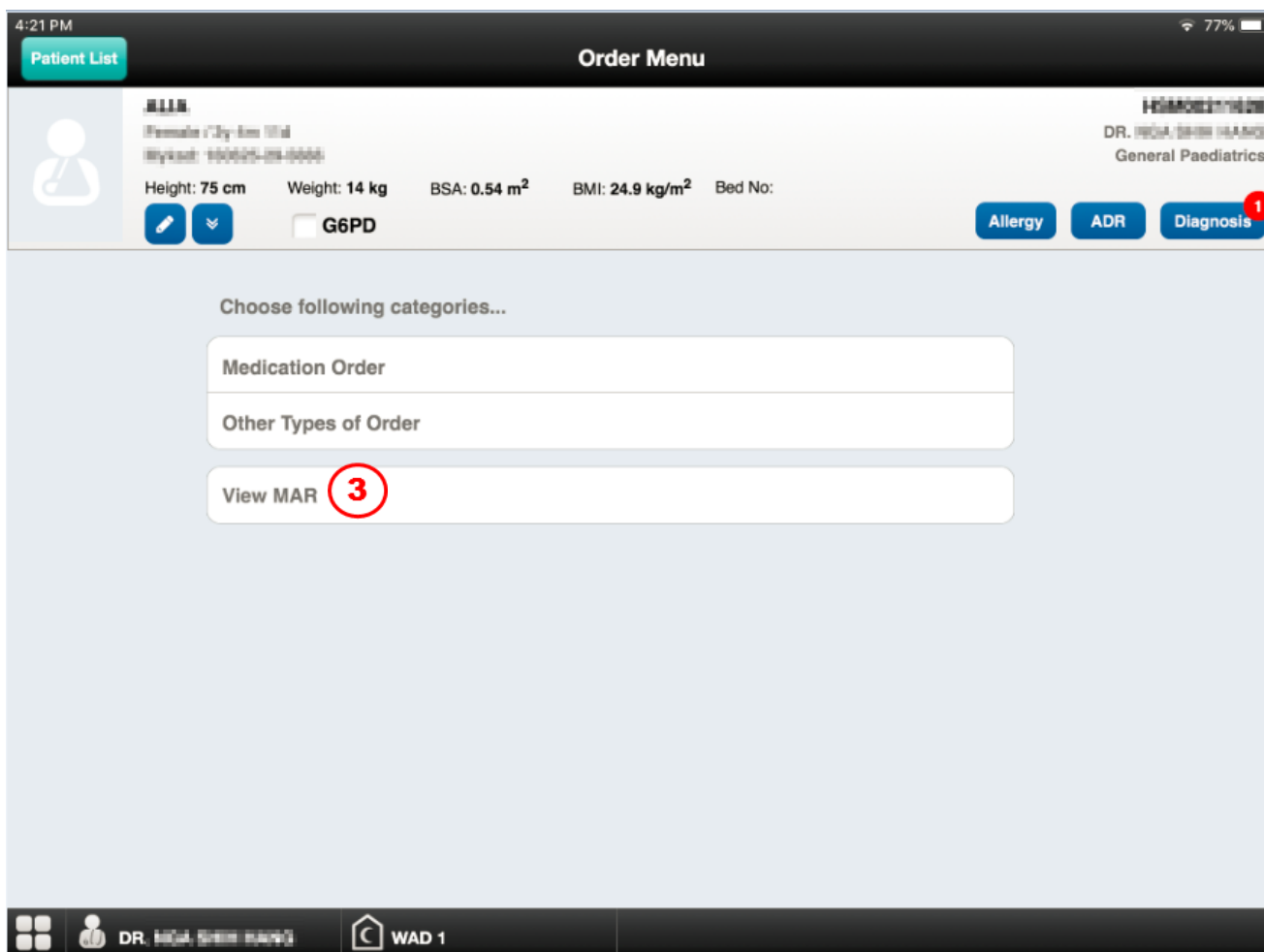
Date/Time	Visit Location	Type of Service	Pharmacist Notes
-----------	----------------	-----------------	------------------

WAD 1

Figure 7.2.2-2 Patient Listing Page

## STEP 2

Tap on selected patient name or search the patient by using  field. System will display as Figure 7.2.2-2



The screenshot displays the 'Order Menu' screen in the PhIS mobile application. At the top, the status bar shows the time as 4:21 PM and battery level at 77%. The header includes a 'Patient List' button and the title 'Order Menu'. Below the header, a patient profile section shows a doctor's name 'DR. [Name]', 'General Paediatrics', and patient details: Height: 75 cm, Weight: 14 kg, BSA: 0.54 m<sup>2</sup>, BMI: 24.9 kg/m<sup>2</sup>, and Bed No: [Blank]. There are buttons for 'Allergy', 'ADR', and 'Diagnosis' (with a red notification badge '1'). A 'G6PD' checkbox is also present. The main area is titled 'Choose following categories...' and contains three buttons: 'Medication Order', 'Other Types of Order', and 'View MAR'. The 'View MAR' button is circled in red with a red '3' next to it, indicating it is the next step. The bottom navigation bar shows a home icon, a doctor's name, and 'WAD 1'.

Figure 7.2.2-3 Medication Order Page

### STEP 3

Tap on the **View MAR**



## Page 111



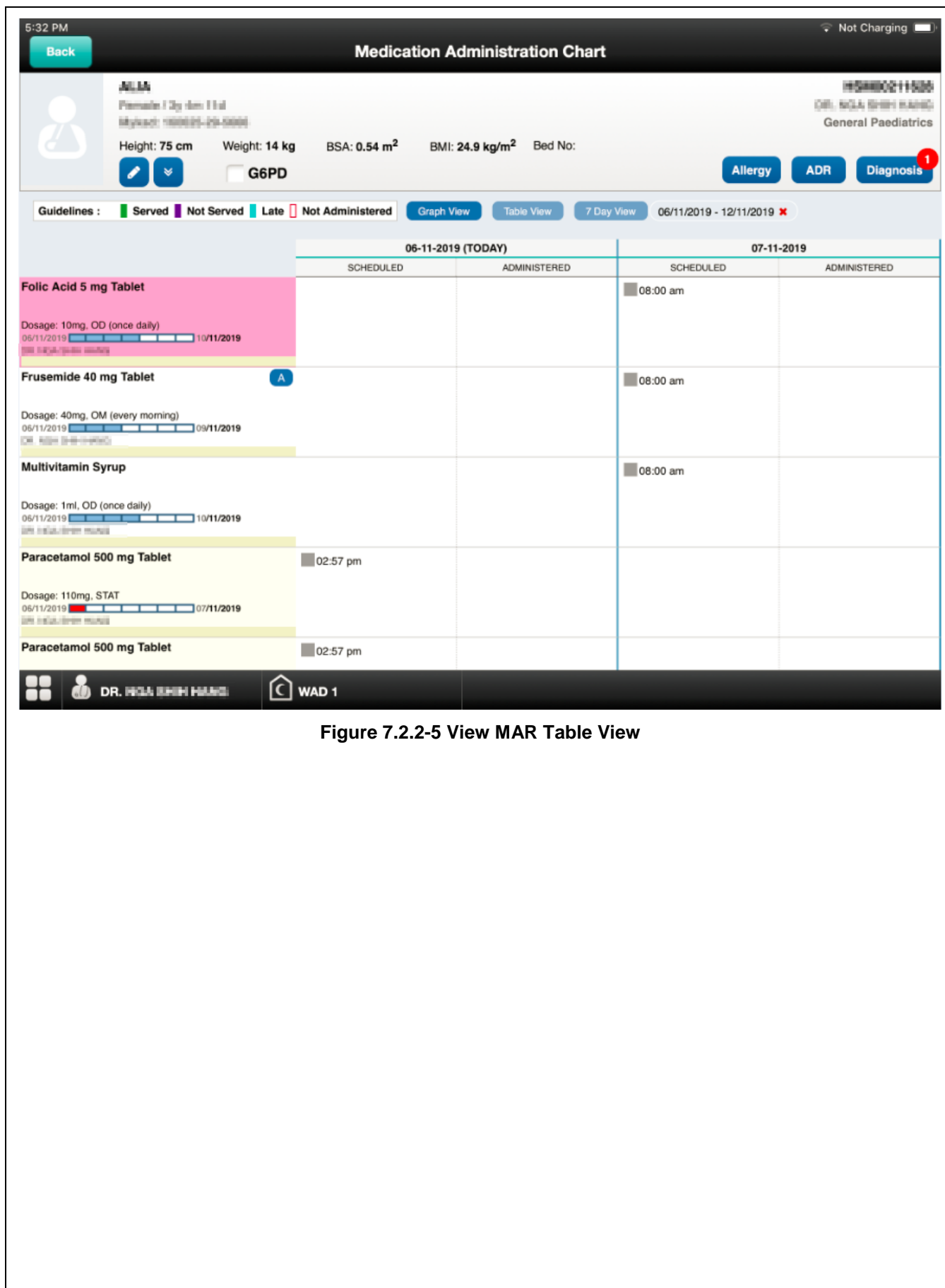


Figure 7.2.2-5 View MAR Table View

### 7.2.3 View MAR – 7 Days View.

View MAR Graph View is used to view the medication chart for duration of 7 days

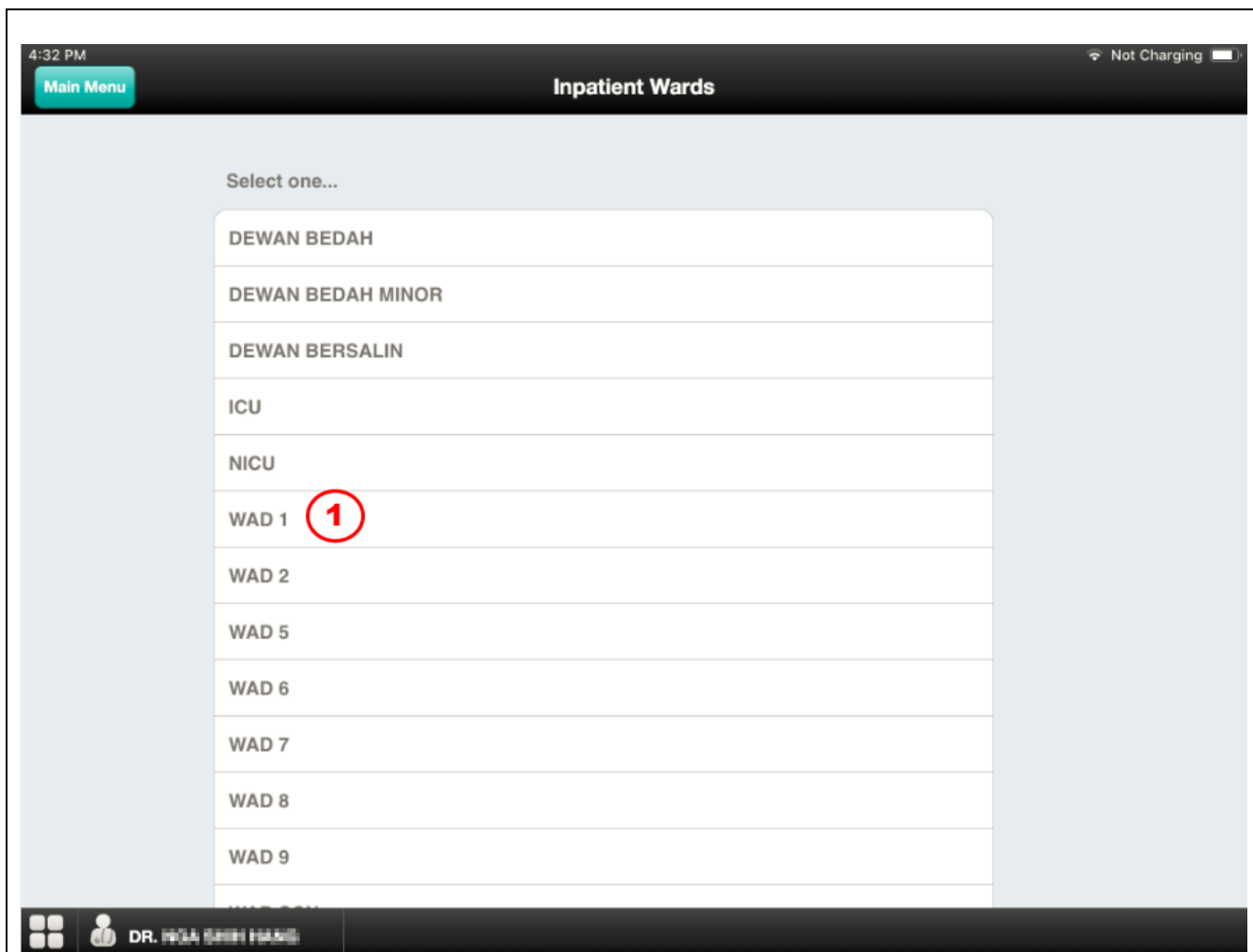
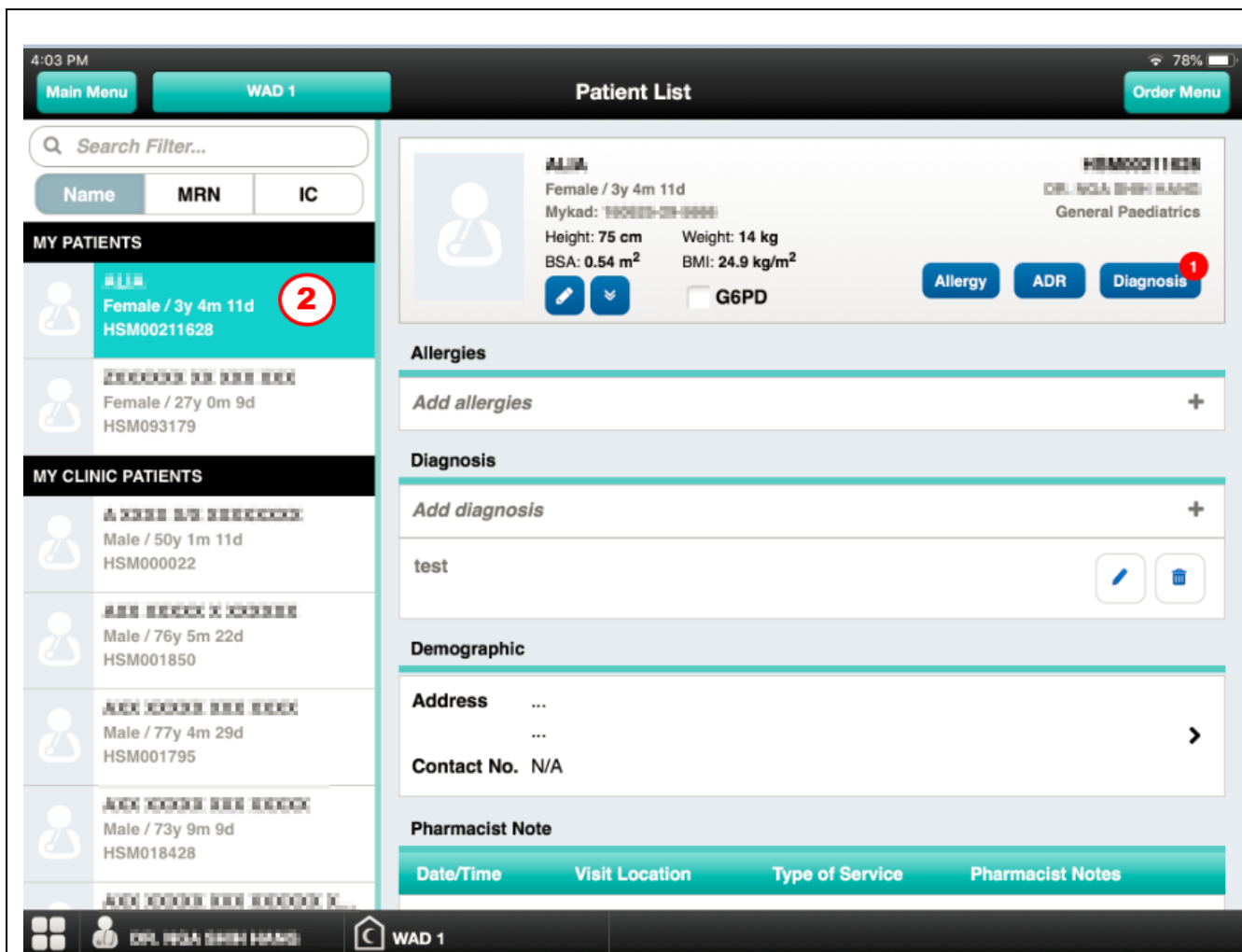


Figure 7.2.3-1 Location Screen Listing Page

#### STEP 1

Tap on the selected location e.g Dewan Bedah 1, WAD 1 to select patient



**4:03 PM** **WAD 1** **Patient List** **Order Menu**

**Search Filter...**

**MY PATIENTS**

- Female / 3y 4m 11d** **HSM00211628** **2**
- Female / 27y 0m 9d** **HSM093179**

**MY CLINIC PATIENTS**

- Male / 50y 1m 11d** **HSM000022**
- Male / 76y 5m 22d** **HSM001850**
- Male / 77y 4m 29d** **HSM001795**
- Male / 73y 9m 9d** **HSM018428**

**Female / 3y 4m 11d**  
Mykad: 190000-00-0000  
Height: 75 cm Weight: 14 kg  
BSA: 0.54 m<sup>2</sup> BMI: 24.9 kg/m<sup>2</sup>  
G6PD

**Allergies**  
Add allergies +

**Diagnosis**  
Add diagnosis +  
test [Edit] [Delete]

**Demographic**  
Address ...  
Contact No. N/A

**Pharmacist Note**

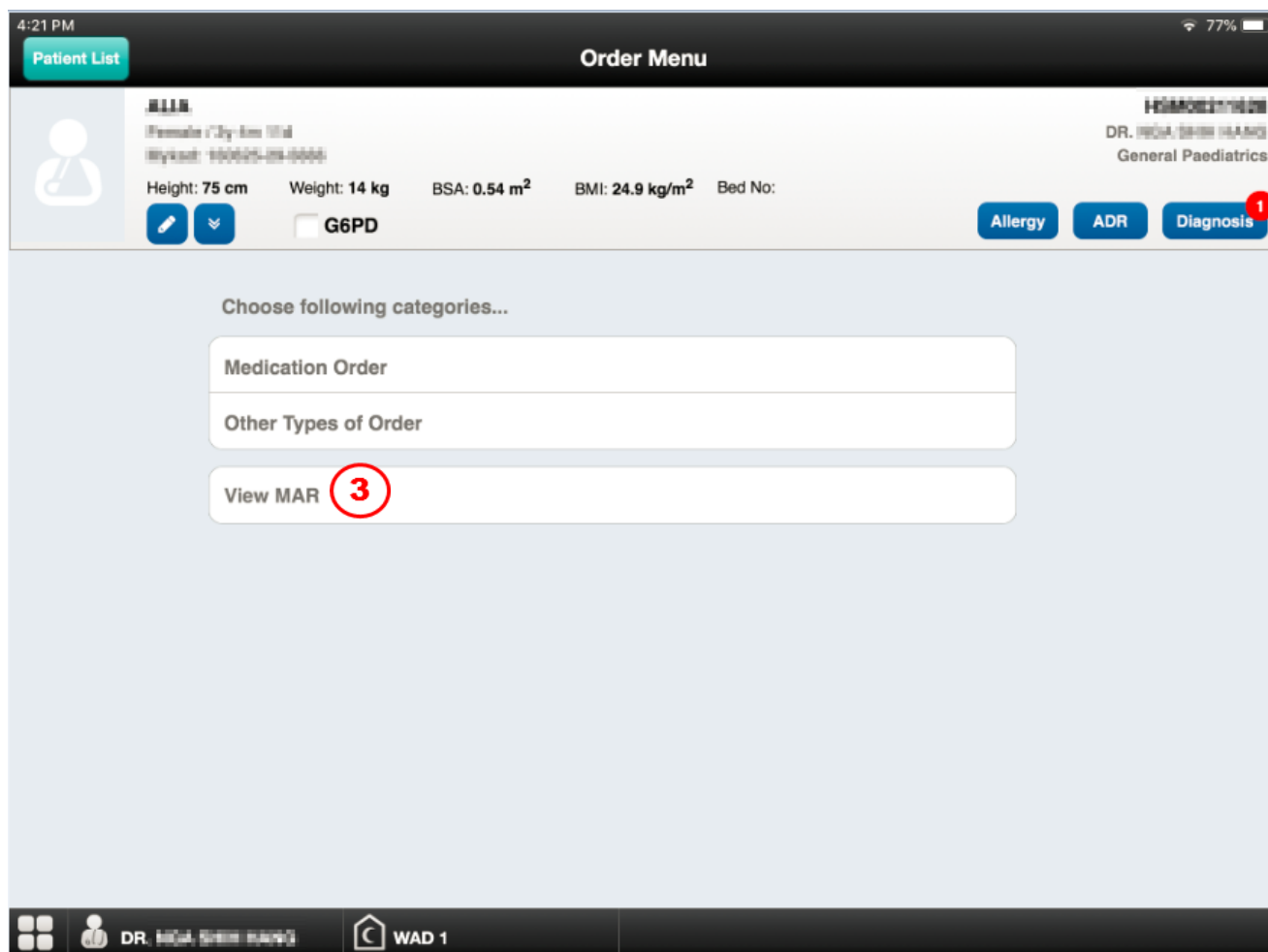
Date/Time	Visit Location	Type of Service	Pharmacist Notes
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**DR. NGA SHIH HANG** **WAD 1**

Figure 7.2.3-2 Patient Listing Page

## STEP 2

Tap on selected patient name or search the patient by using  field. System will display as Figure 7.2.3-2



The screenshot displays the 'Order Menu' screen in the PhIS mobile application. At the top, the status bar shows the time as 4:21 PM and battery level at 77%. The header includes a 'Patient List' button and the title 'Order Menu'. Below the header, a patient profile is shown with a doctor's icon, name 'DR. HOA SHEN HANG', and specialty 'General Paediatrics'. Patient details include 'Female (Jy-ken 101)', 'Myasut: 100000-00-0000', 'Height: 75 cm', 'Weight: 14 kg', 'BSA: 0.54 m<sup>2</sup>', 'BMI: 24.9 kg/m<sup>2</sup>', and 'Bed No:'. There are buttons for 'Allergy', 'ADR', and 'Diagnosis' (with a red notification badge '1'). A 'G6PD' checkbox is also present. The main section is titled 'Choose following categories...' and contains three buttons: 'Medication Order', 'Other Types of Order', and 'View MAR' (highlighted with a red circle and the number '3'). The bottom navigation bar shows a grid icon, a doctor's icon and name 'DR. HOA SHEN HANG', and a house icon labeled 'WAD 1'.

Figure 7.2.3-3 Medication Order Page

### STEP 3

Tap on the **View MAR**

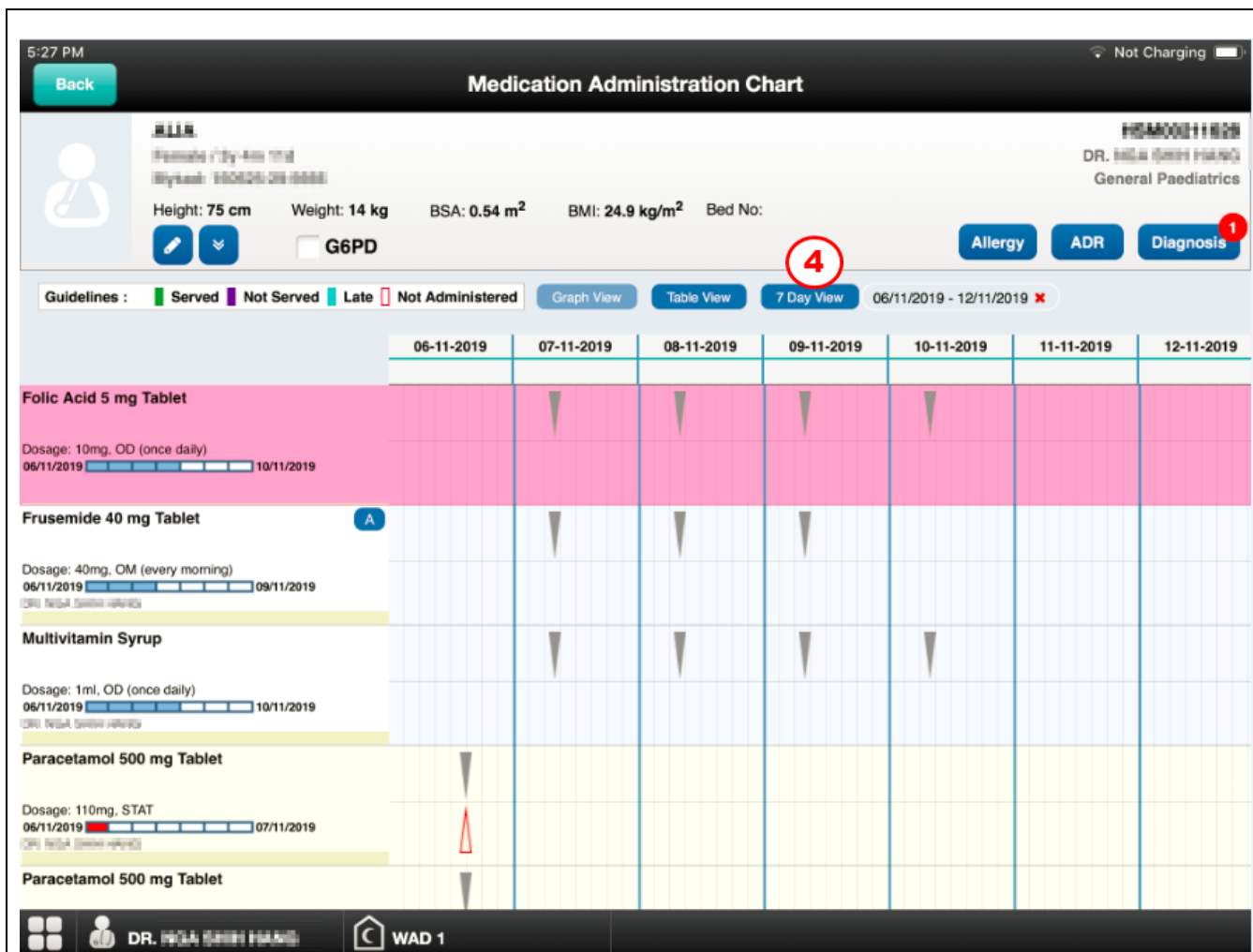


Figure 7.2.3-4 View MAR Graph View

#### STEP 4

Tap on the **7 Day View** button

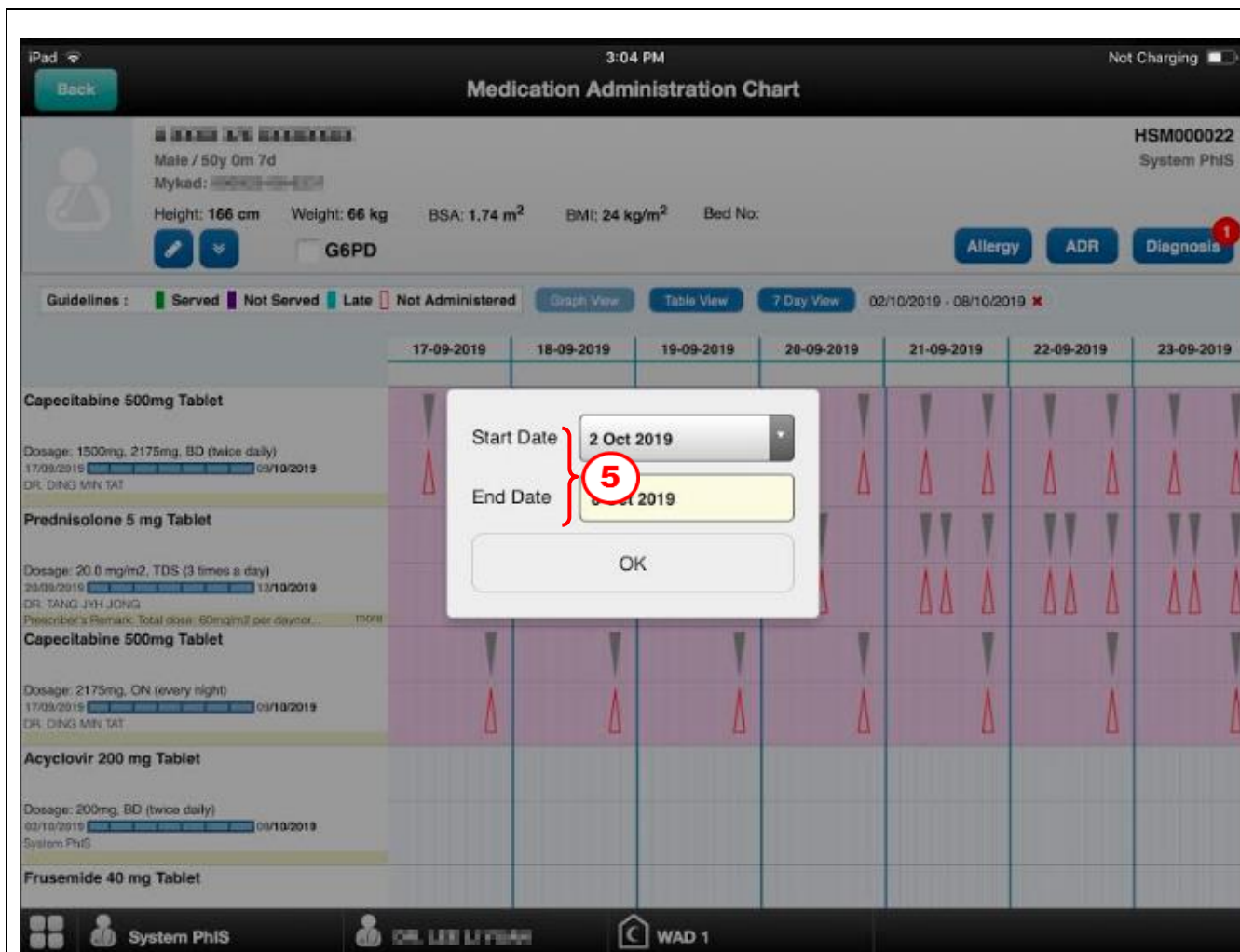


Figure 7.2.3-5 View MAR Graph View

## STEP 5

Enter the **Start Date** and **End Date** then tap on the **OK** button and system will display as Figure 7.2.3-6

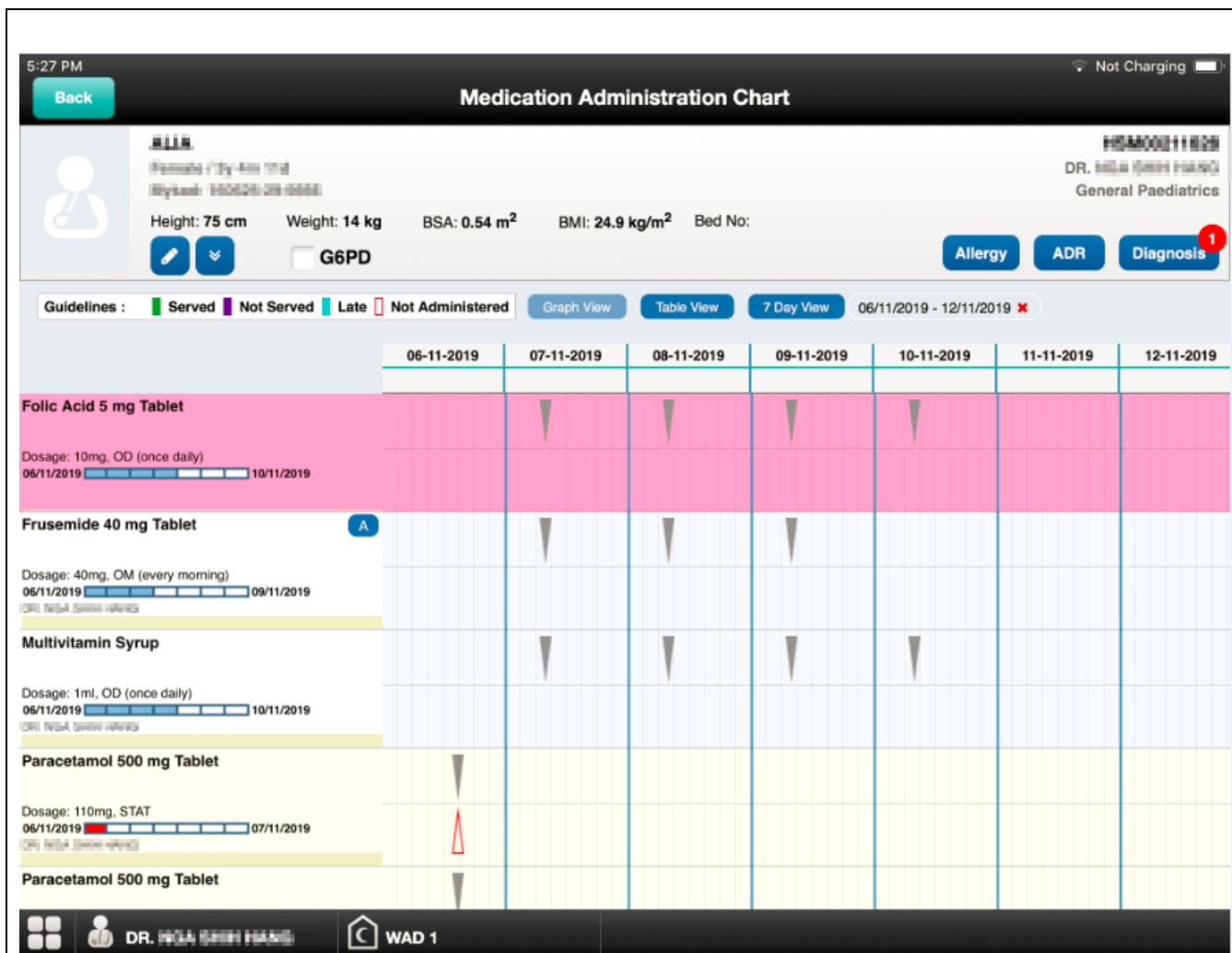



Figure 7.2.3-6 View MAR 7 Days View

### View MAR Legend

ICON / SCREENSHOT	DESCRIPTION
	Drug Not Serve
<b>Prednisolone 5 mg Tablet</b>  Dosage: 5mg, OD (once daily) <span style="border: 1px solid red; padding: 2px;">18/10/2016 <span style="color: blue;">■</span> <span style="color: blue;">■</span> <span style="color: blue;">■</span> <span style="color: blue;">■</span> <span style="color: blue;">■</span> <span style="color: blue;">■</span> <span style="color: blue;">■</span> 25/10/2016</span> DR FARIDAH BTE SULONG @ AB. HADI	Drug prescribe for 7 days


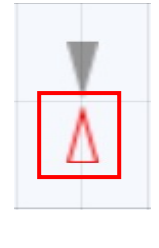
<p><b>Prednisolone 5 mg Tablet</b></p> <p>Dosage: 10mg, OD (once daily)</p> <p>16/10/2016 21/10/2016</p> <p>DR MUHD FAIZ FAIZUL BIN FAUZI</p> <p>Stock:</p>	<p>Drug to be served remain 3 days</p>
	<p>Drug served</p>
	<p>Drug is not administered</p>
<p><b>Amlodipine 10 mg Tablet</b></p> <p>Dosage: 10mg, QM (every morning)</p> <p>06/11/2019 10/11/2019</p> <p>DR. NGA SHIH HANG</p>	<p>Dispense medication discontinued/stop by prescriber / doctor</p>

Table 7.2-1 View MAR Legend



## 8.0 Acronyms

Abbreviation	Definition
PhIS	Pharmacy Information System
CPS	Clinical Pharmacy System
OM	Order Management
MRN	Medical Record Number
TDM	Clinical Pharmacokinetics Services
ADR & DAC	Adverse Drug Reaction and Drug Allergic Card
MTAC	Medication Therapy Adherence Clinic
MOH	Ministry Of Health
CDR	Cytotoxic Drug Reconstitution
TDM	Therapeutic Drug Monitoring
PN	Parenteral Nutrition

## 9.0 Links to Clinical Modules

No	Module	PDF Links	No	Module	PDF Links
1	Inpatient	<a href="#">Click Here</a>	12	CDR Dispensing	<a href="#">Click Here</a>
2	CDR Order	<a href="#">Click Here</a>	13	Methadone Dispensing	<a href="#">Click Here</a>
3	TDM Order	<a href="#">Click Here</a>	14	PN Dispensing	<a href="#">Click Here</a>
4	PN Order	<a href="#">Click Here</a>	15	Order Management	<a href="#">Click Here</a>
5	IV Order	<a href="#">Click Here</a>	16	Patient Management	<a href="#">Click Here</a>
6	Prepacking	<a href="#">Click Here</a>	17	Radiopharmaceuticals	<a href="#">Click Here</a>
7	Galenical	<a href="#">Click Here</a>	18	Outpatient	<a href="#">Click Here</a>
8	MTAC	<a href="#">Click Here</a>	19	Special Drug Request	<a href="#">Click Here</a>
9	ADR & DAC	<a href="#">Click Here</a>	20	MAR	<a href="#">Click Here</a>
10	Medication Counselling	<a href="#">Click Here</a>	21	DICE	<a href="#">Click Here</a>
11	Ward Pharmacy	<a href="#">Click Here</a>	22		