



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

Full Based User Manual Order Management - Medication Order

Version	: 13th Edition
Document ID	: U. MANUAL_MEDICATION ORDER_MOBILE



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Reference ID : U. MANUAL_MEDICATION ORDER_MOBILE-13th E

Application reference: PhIS & CPS v2.6.1



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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

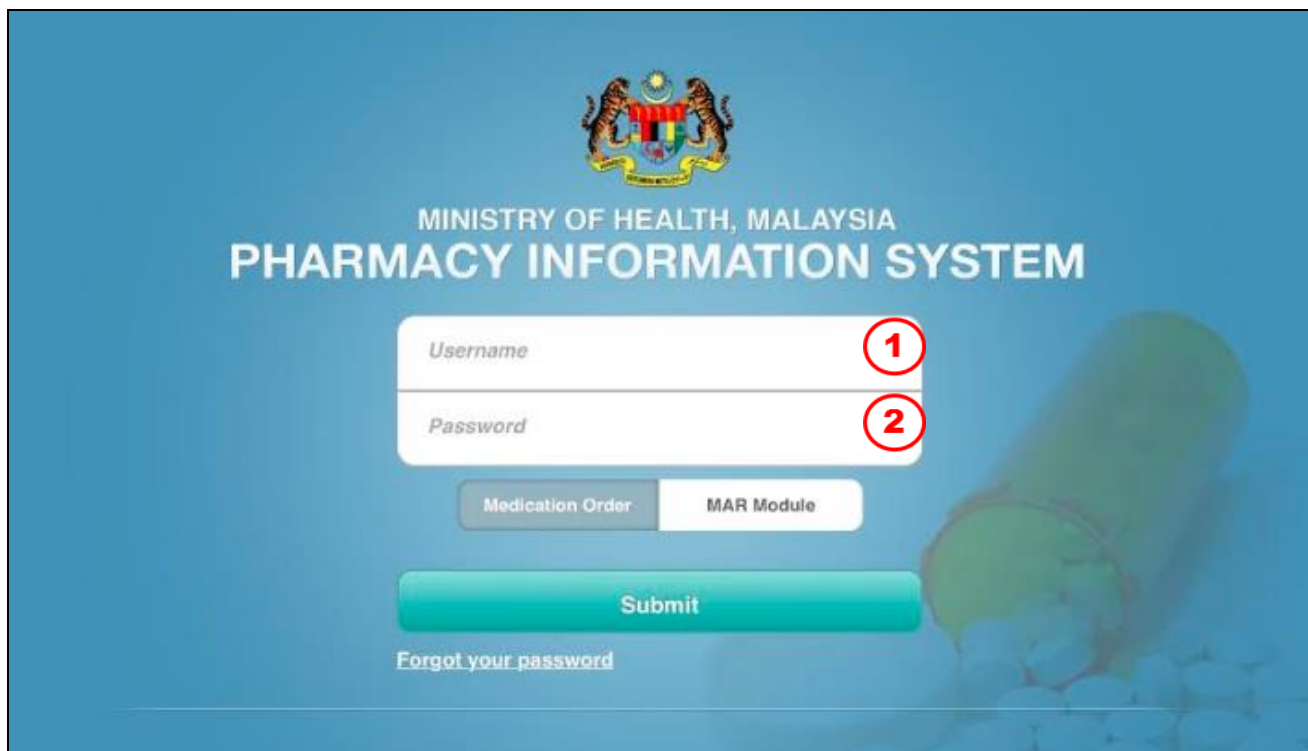
2. Application Standard Features

2.1 PhIS Legend

Module Legend					
Update Status	Update Records		Stop Drug	Close	close record
Draft	Draft Records		Add to favorite		Edit records
Renew	Renew order	Confirm	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 and a large green pill graphic on the right. 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" and "Password". The "Username" field is marked with a red circle containing the number "1", and the "Password" field is marked with a red circle containing the number "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".

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.

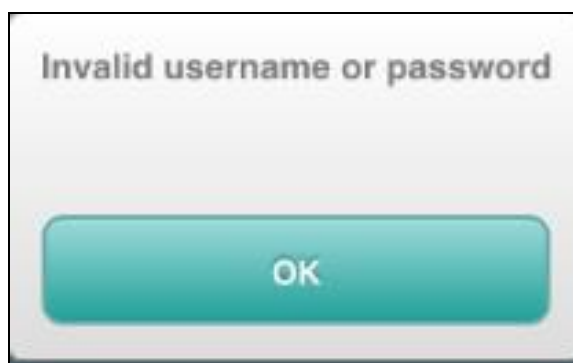


Figure 2.2-2 User does not exist.

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

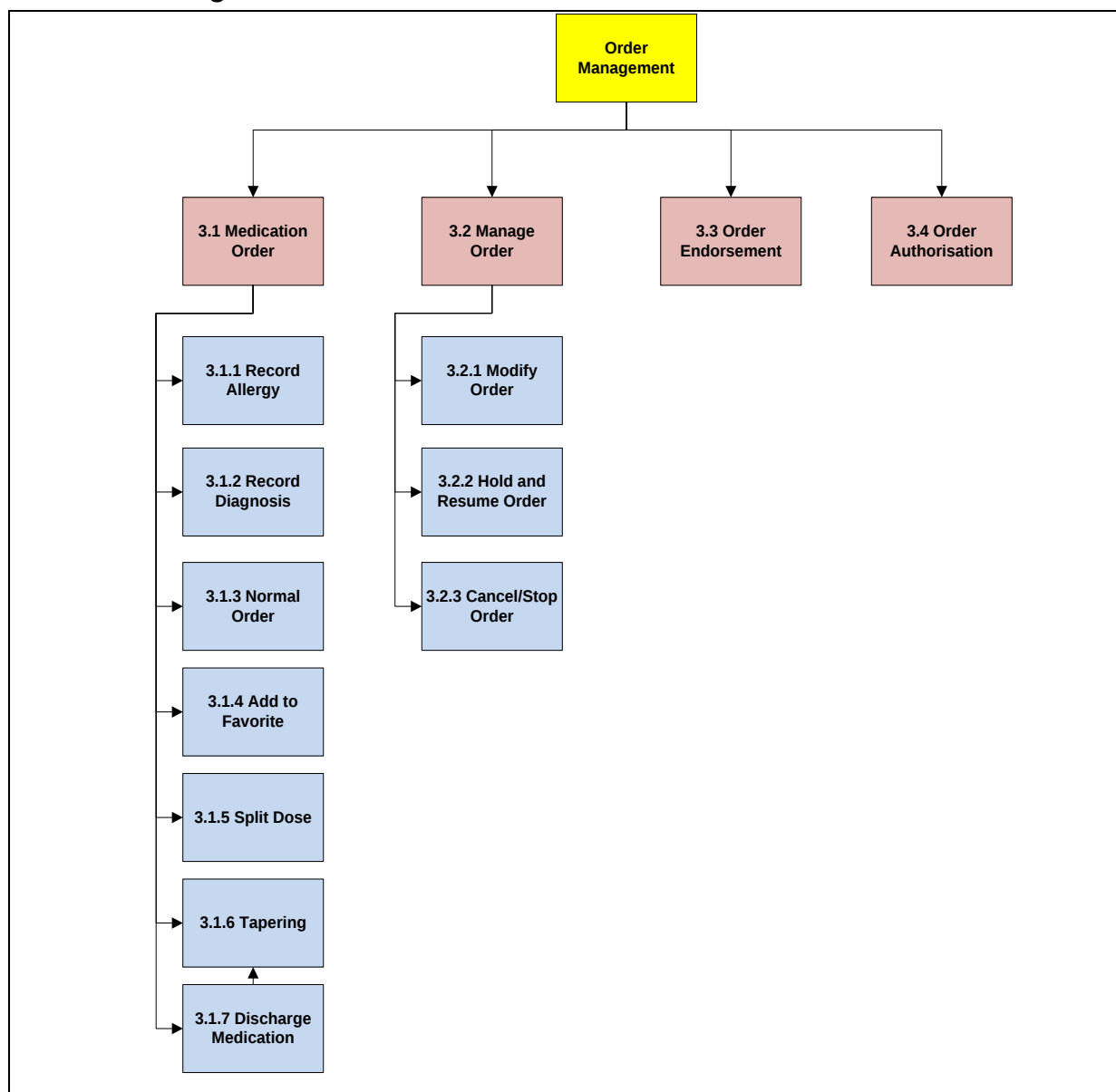


Figure 3.0-1

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

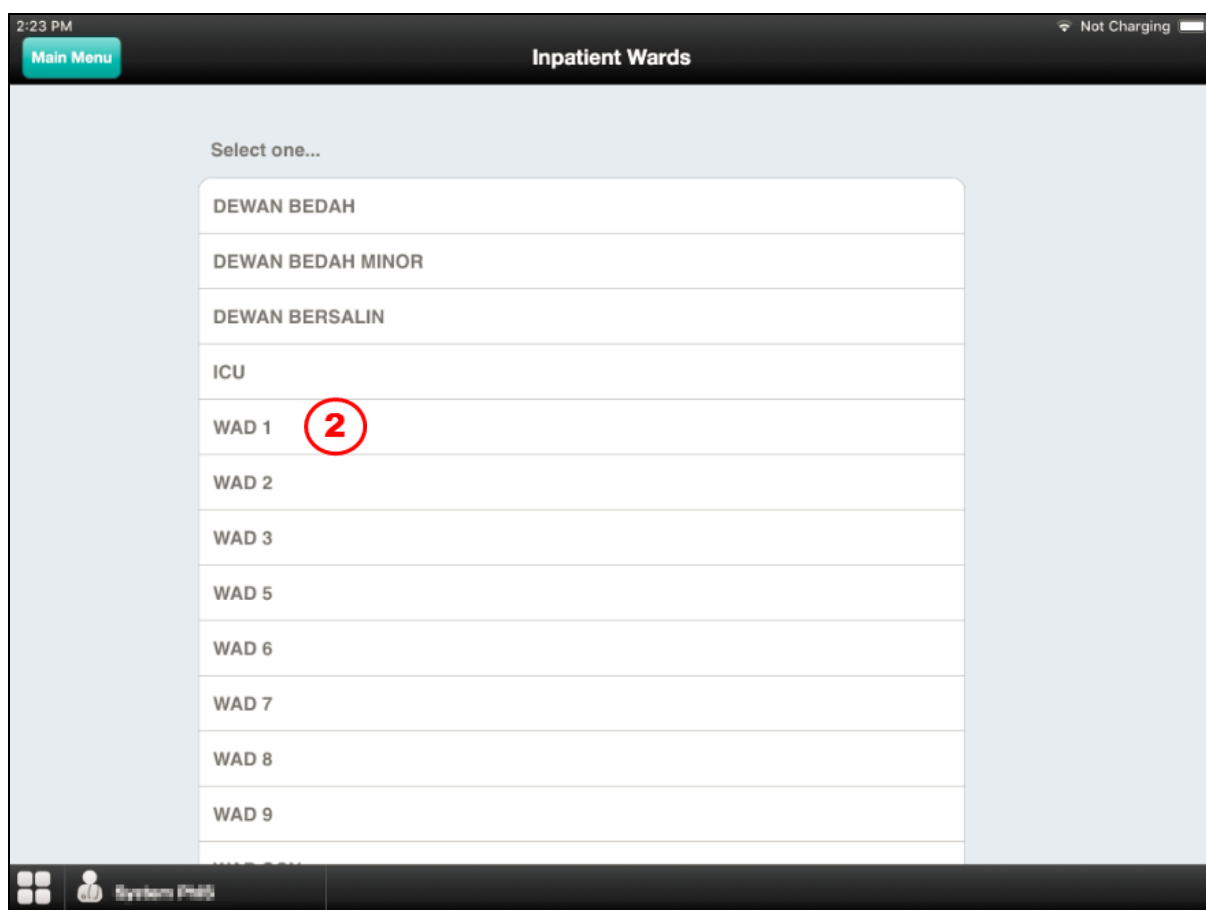


Figure 3.1.1-2 Location Screen Listing Page

STEP 2

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

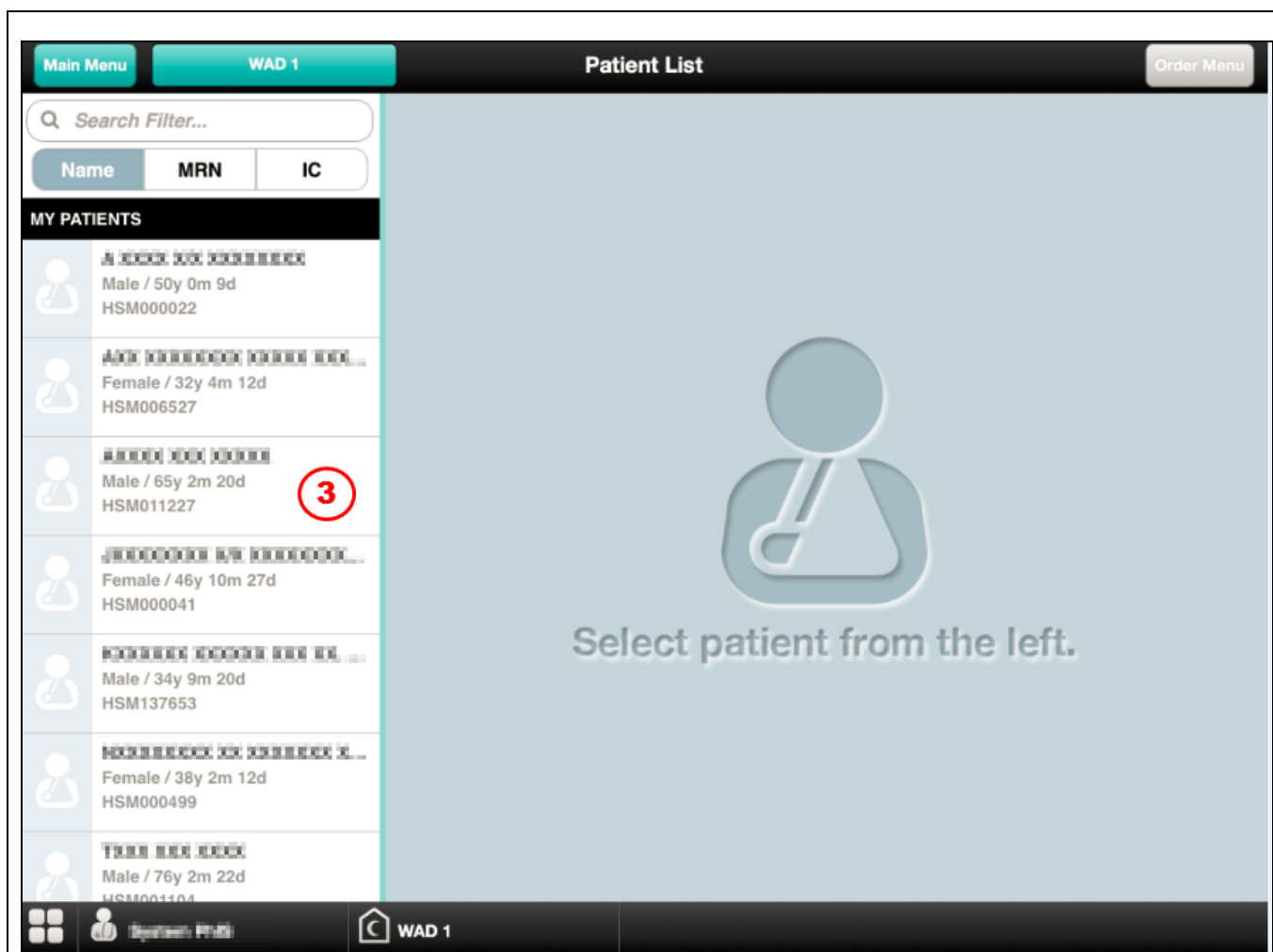


Figure 3.1.1-3 Patient Listing Page

- 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: Type the MRN either full or partial: Example: HPSF00001234 or "1234"
C	IC	Patients identification number	Able to filter and search patient by identification number

Table 3.1.1-3

STEP 3

Tap on selected patient name

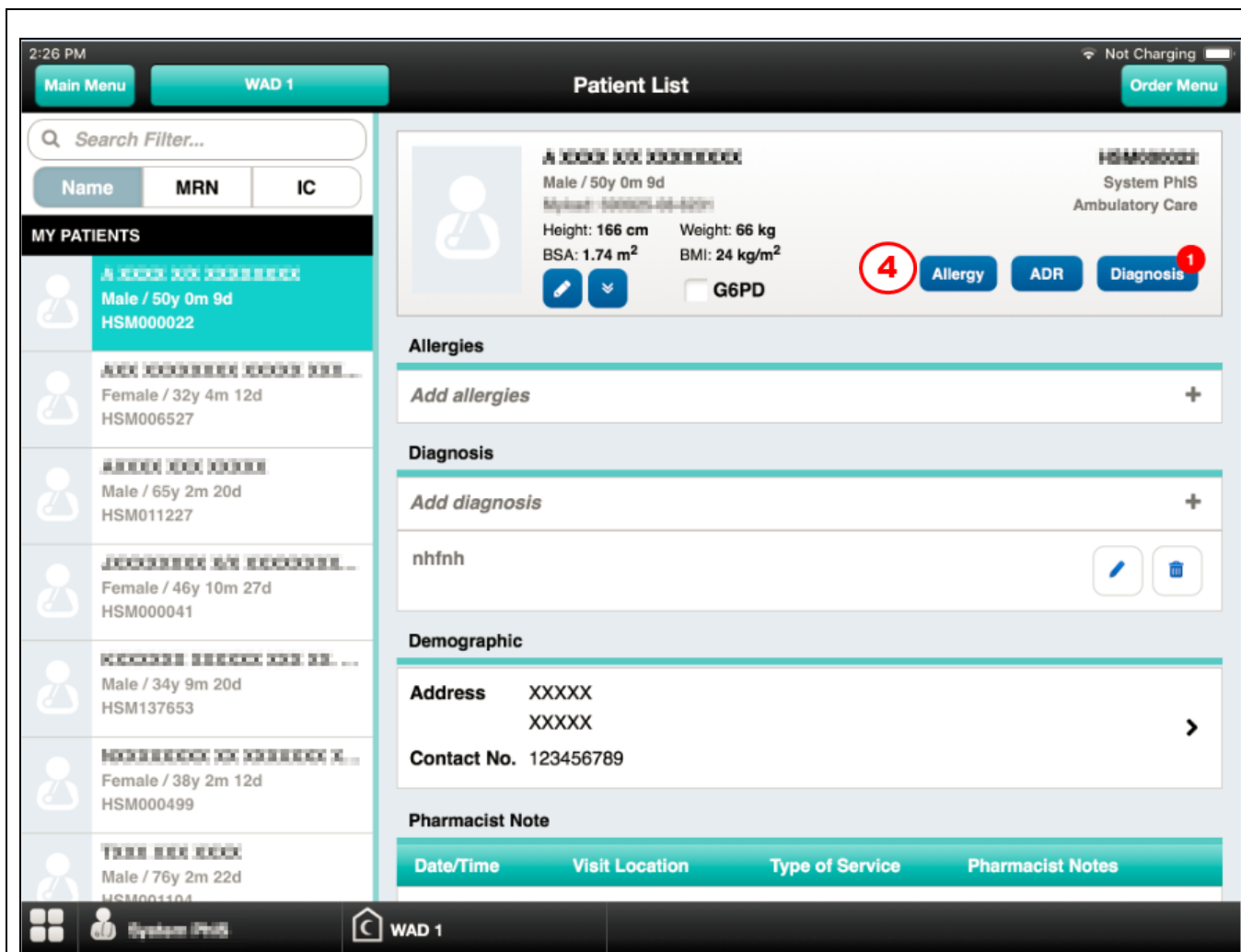


Figure 3.1.1-4 Patient Listing Page

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

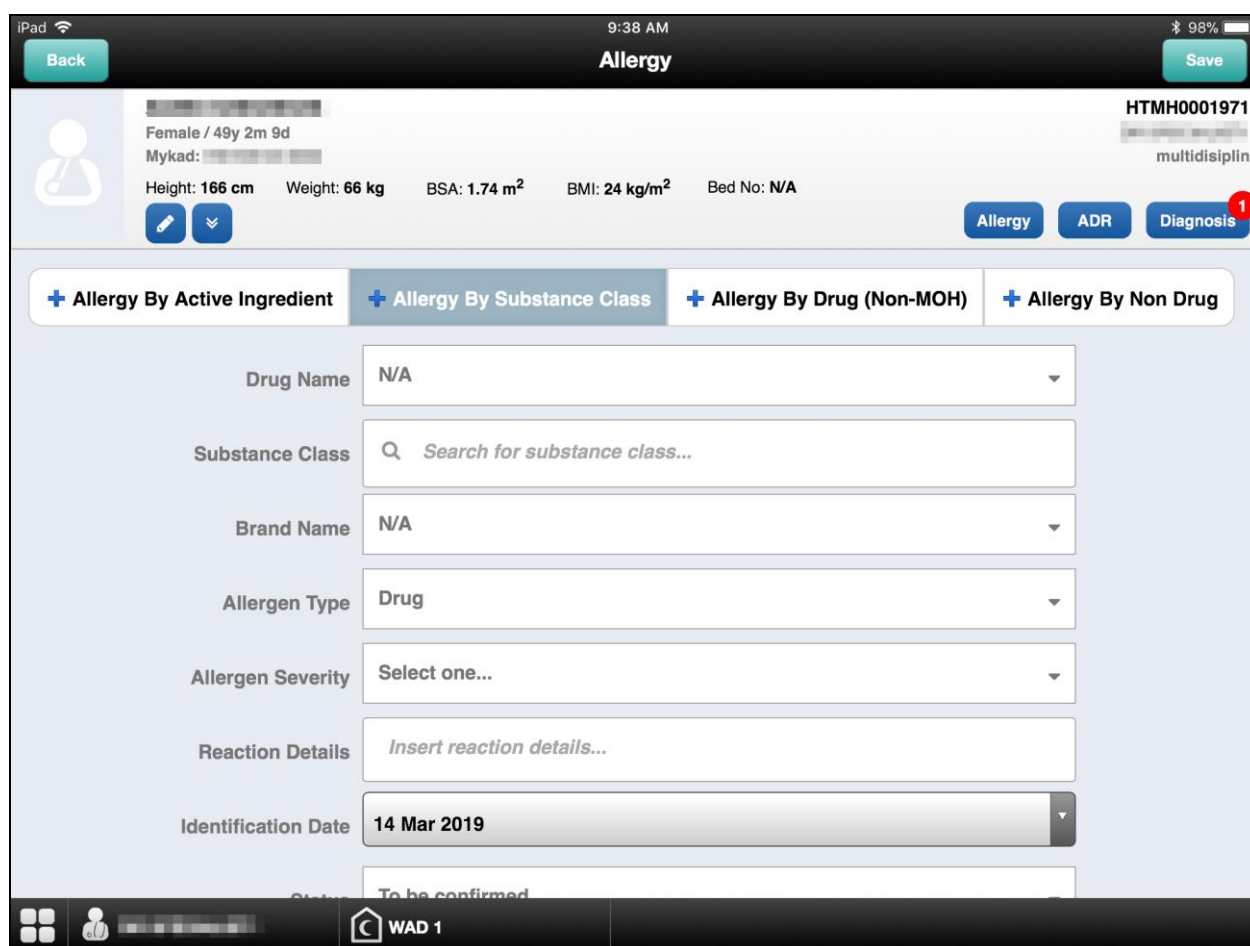


Figure 3.1.1-6 Allergy Screen

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.

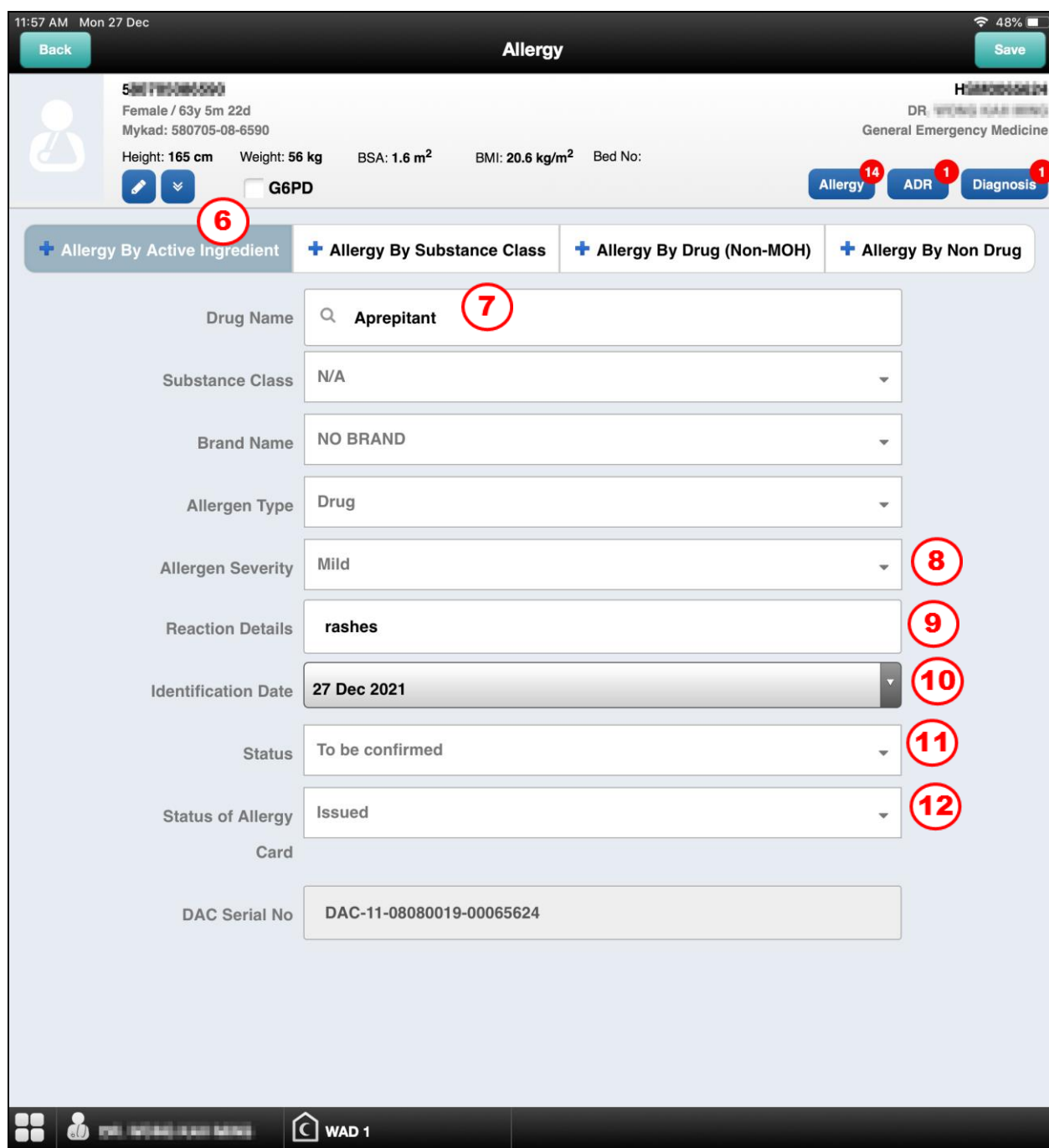


Figure 3.1.1-7 Allergy Detail Screen

STEP 6

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

STEP 7

Tap on the selected active ingredient

STEP 8

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

- Mild
- Moderate
- Severe
- Unknown

STEP 9

Enter **Reaction Details**

STEP 10

Select **Identification Date** of allergy

STEP 11

Select **Status** from drop down box:

- Confirmed
- Resolved
- Suspected
- To be confirmed

STEP 12

Select **Status of Allergy Card** from dropdown

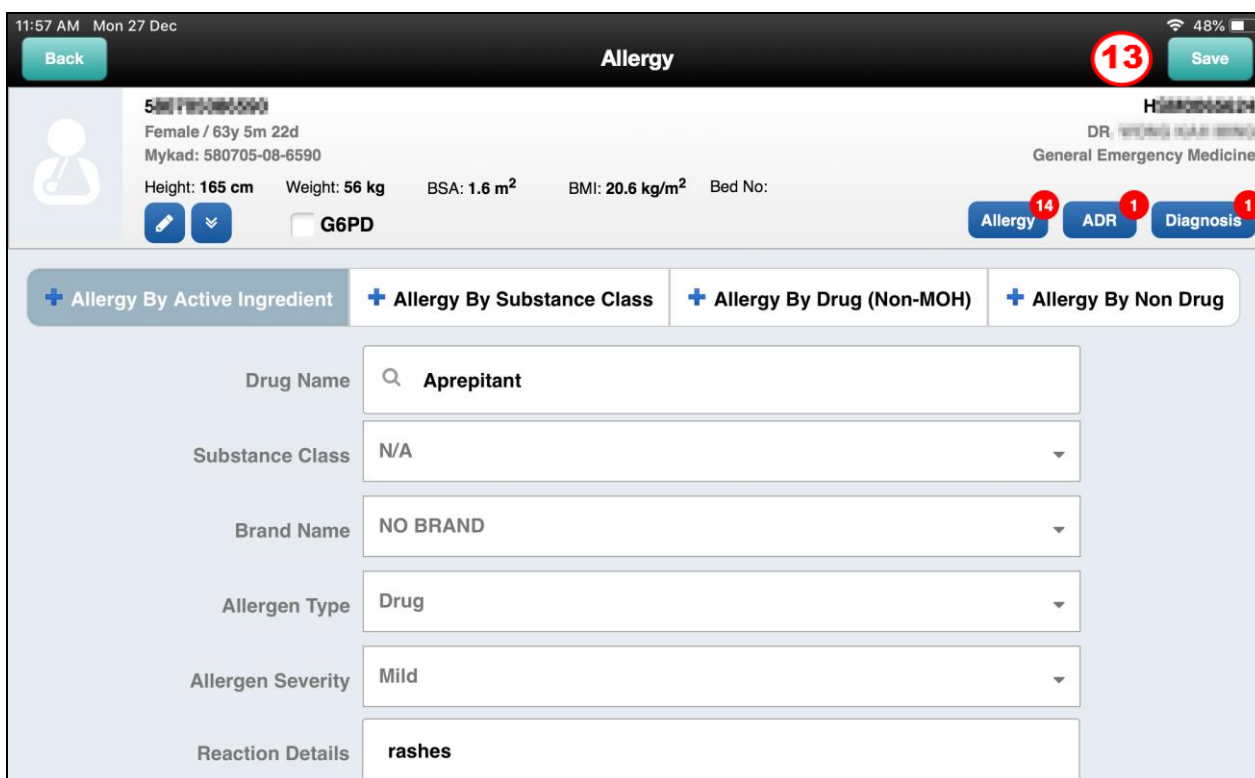
- Issued
- Not Issued

Note

- **Status of Allergy Card** and **DAC Serial No** field will be enabled if user select **Allergen Type** as “Drug”
- If user select **Status of Allergy Card** as **Not Issued**, **Remark** fill will enable for user to enter as shown in figure 3.1.1-8



Figure 3.1.1-8 Allergy Detail Screen



11:57 AM Mon 27 Dec 48%

Allergy 13 Save

Female / 63y 5m 22d
Mykad: 580705-08-6590

Height: 165 cm Weight: 56 kg BSA: 1.6 m² BMI: 20.6 kg/m² Bed No:

☐ G6PD

DR. General Emergency Medicine

Allergy 14 ADR 1 Diagnosis 1

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

Drug Name

Substance Class

Brand Name

Allergen Type

Allergen Severity

Reaction Details

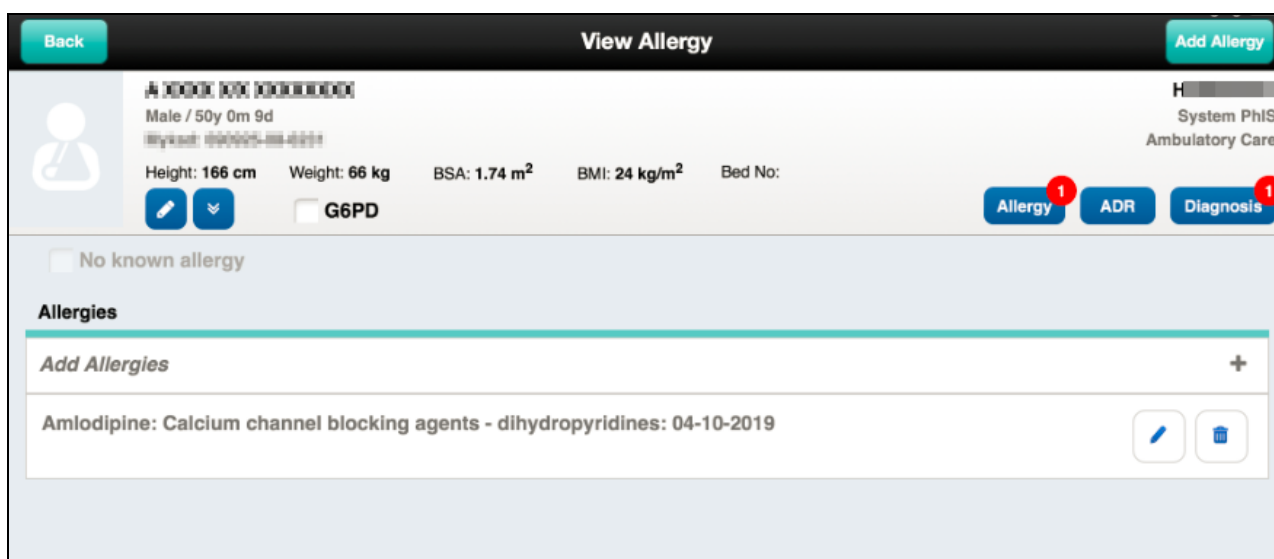
Figure 3.1.1-9 Allergy Detail Screen

STEP 13

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

Note

Allergy record will be added in the list as shown in figure 3.1.1-10



View Allergy Add Allergy

Male / 50y 0m 9d
Mykad: 000000-00-0000

Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² Bed No:

☐ G6PD

System PhIS Ambulatory Care

Allergy 1 ADR 1 Diagnosis 1

☐ No known allergy

Allergies

Add Allergies +

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

Figure 3.1.1-10 Allergy Detail Screen

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.

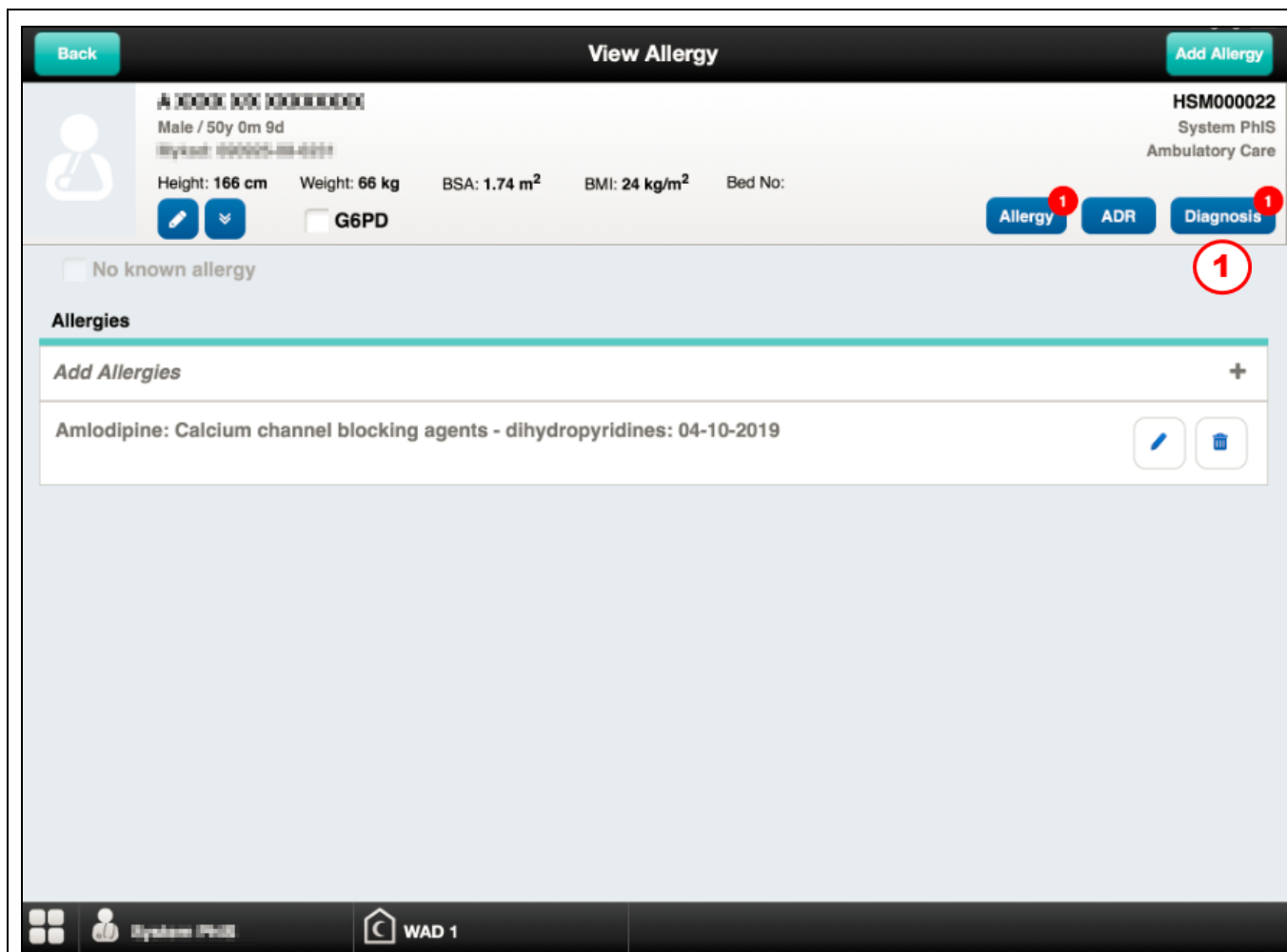


Figure 3.1.2-1 Diagnosis Landing Screen

STEP 1

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

Figure 3.1.2-2 Diagnosis Landing Screen

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

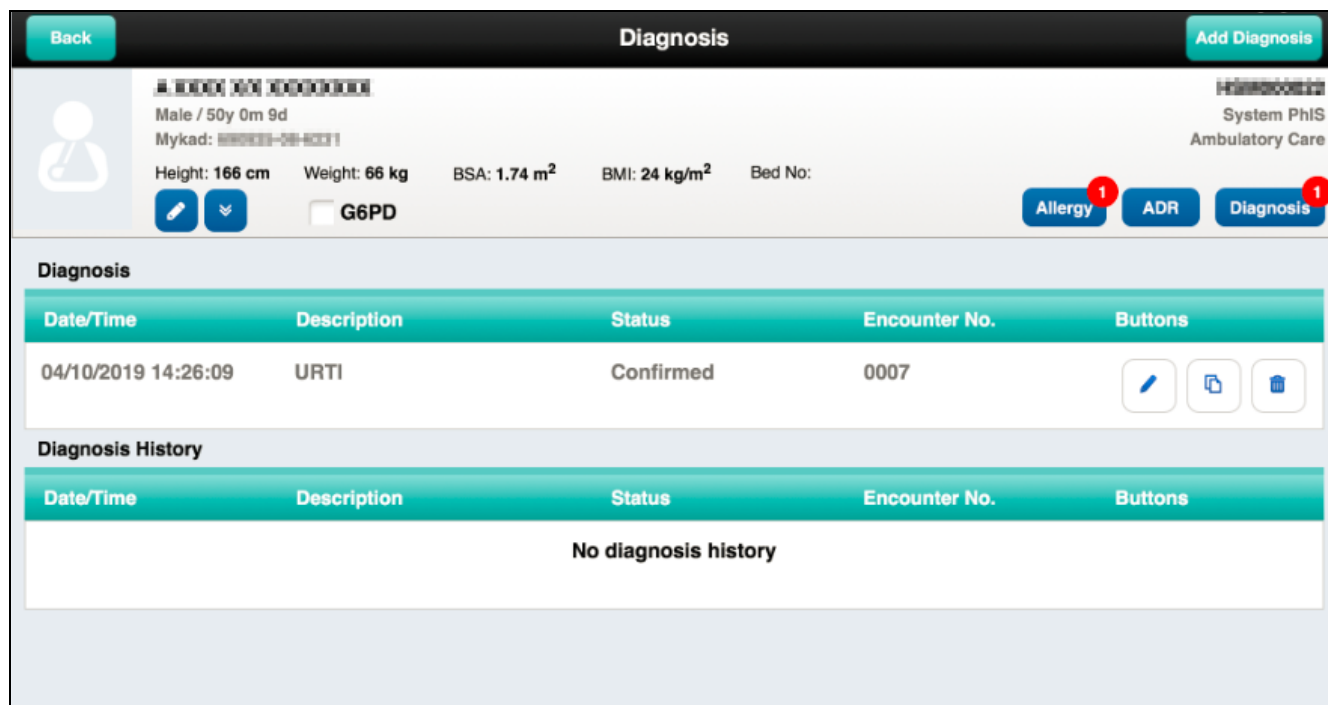
Figure 3.1.2-3 Diagnosis Detail Screen

Enter diagnosis **Description**

Tap on the button to confirm the record

- **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 m² BMI: 24 kg/m² Bed No:
G6PD

System PhIS Ambulatory Care

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				

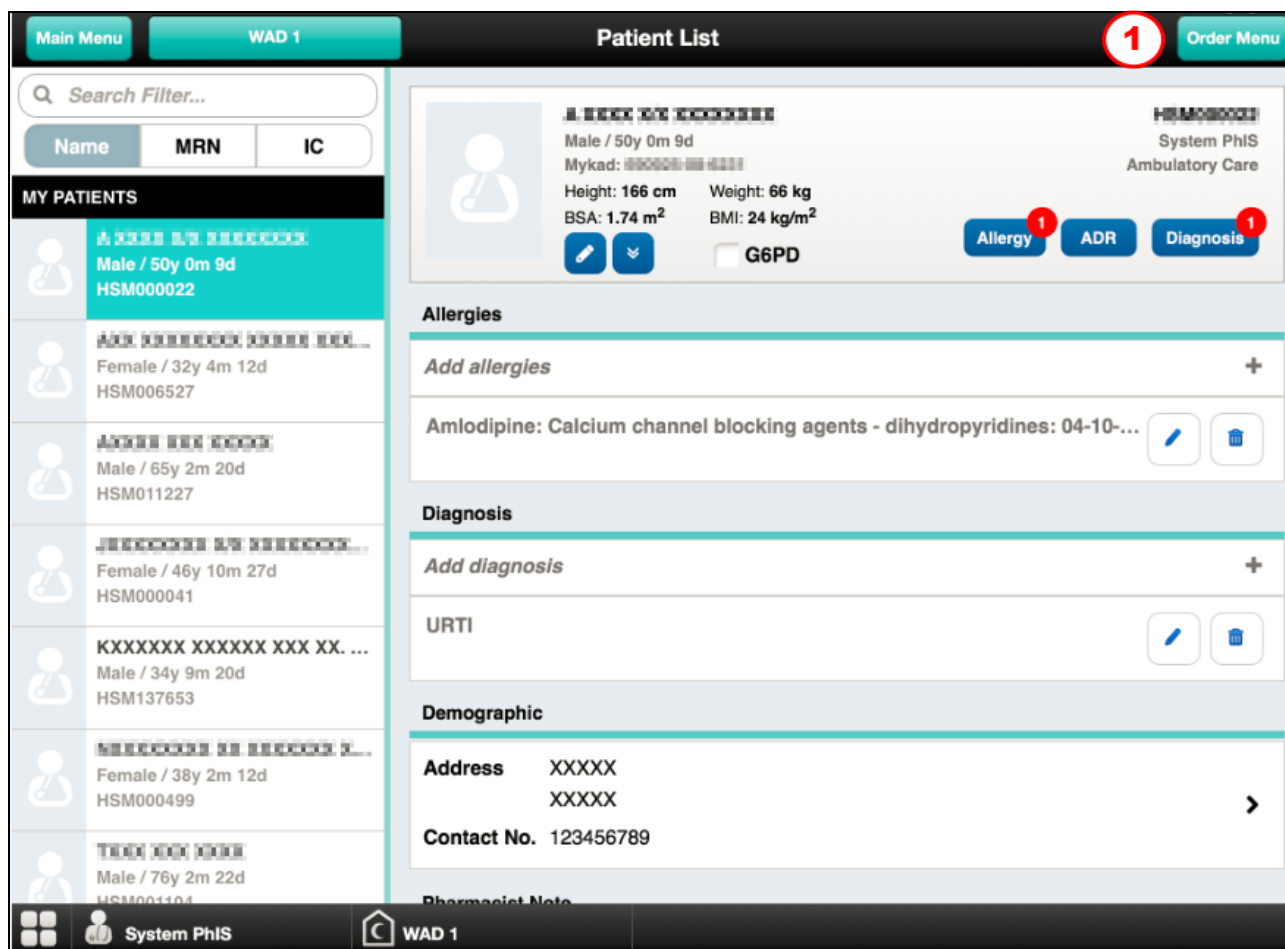
Figure 3.1.2-4 Diagnosis Detail Screen

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 m²** **BMI: 24 kg/m²**
G6PD

Allergies

Add allergies +

Amlodipine: Calcium channel blocking agents - dihydropyridines: 04-10-... [Edit] [Delete]

Diagnosis

Add diagnosis +

URTI [Edit] [Delete]

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

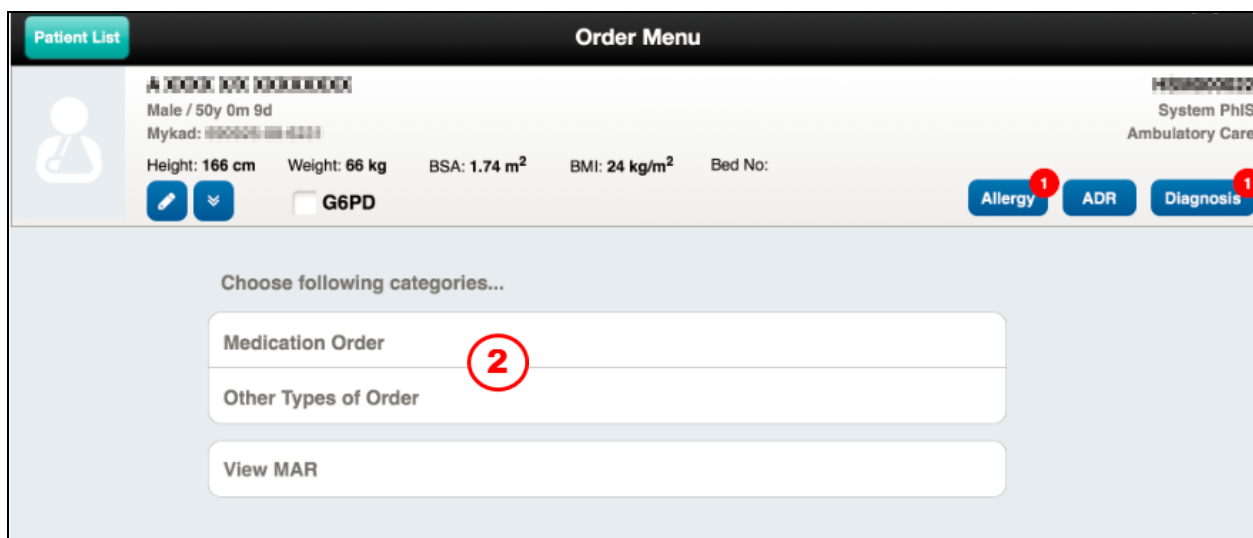


Figure 3.1.3-2 Order Screen Listing Page

STEP 2

Tap on the **Medication Order** field

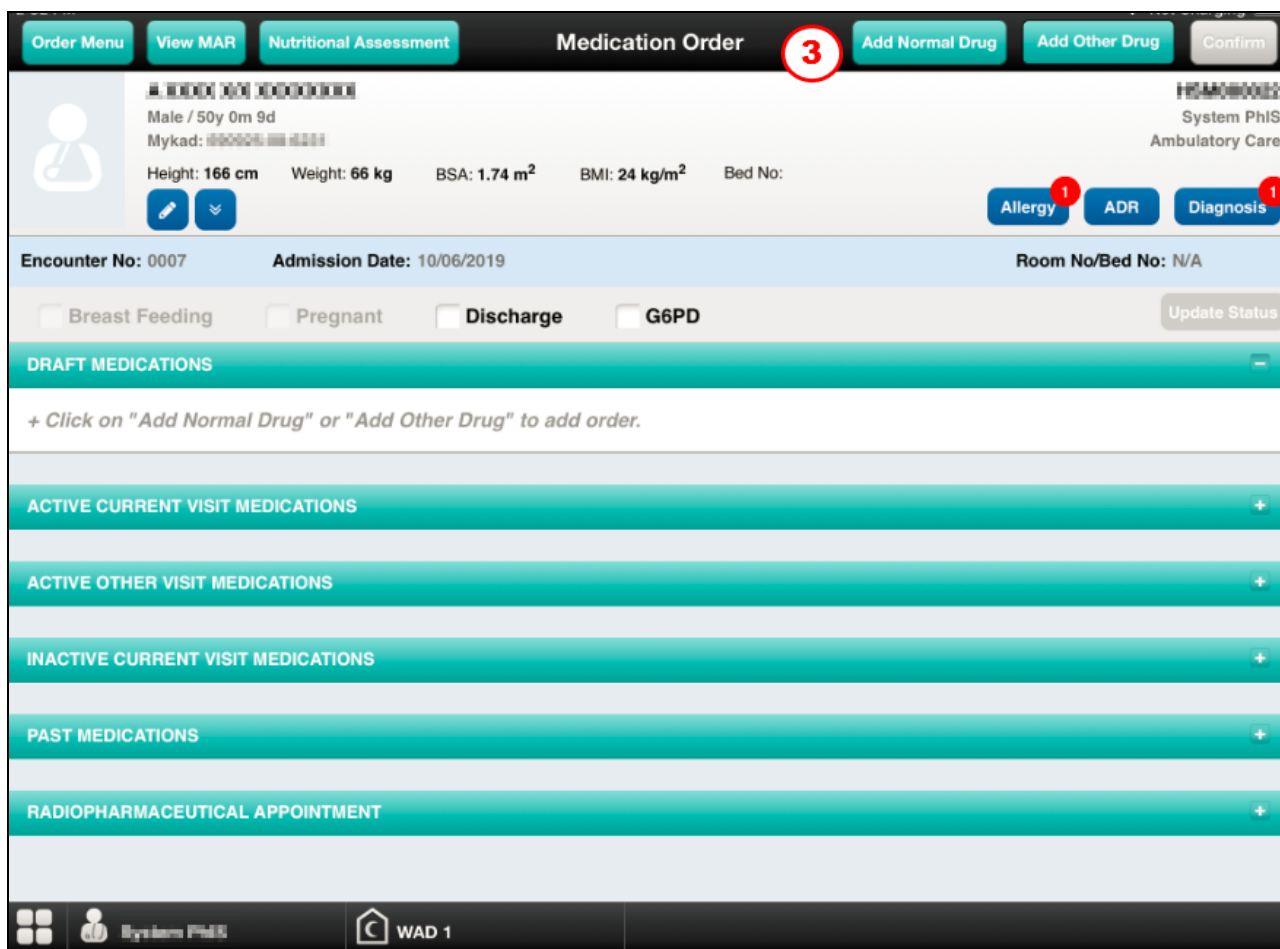


Figure 3.1.3-3 Order Screen Listing Page

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

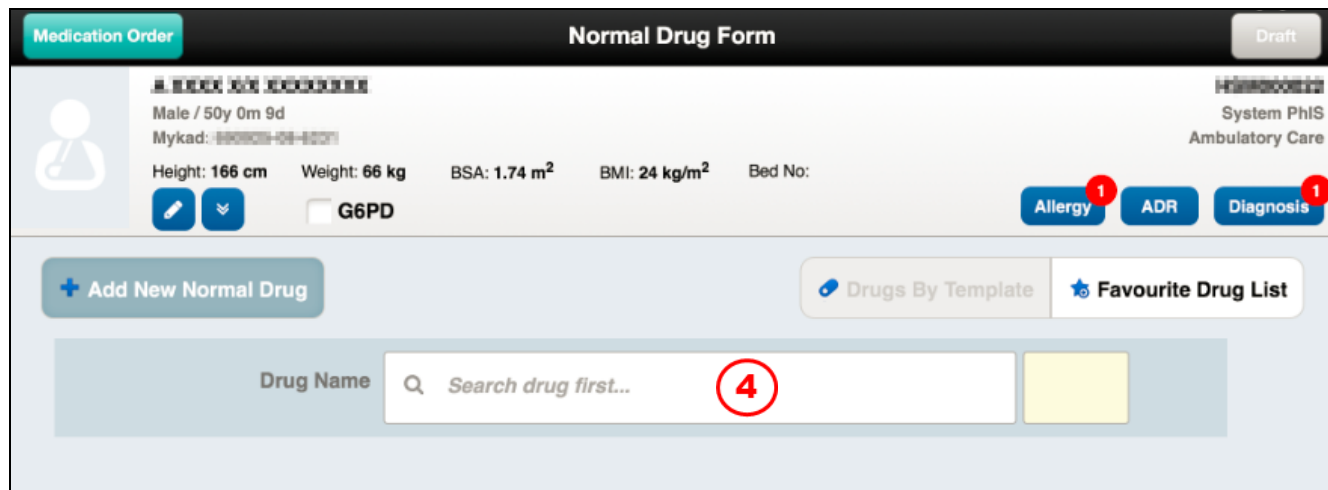


Figure 3.1.3-4 Order Screen Listing Page

STEP 4

Search drug by enter keyword of the drug name

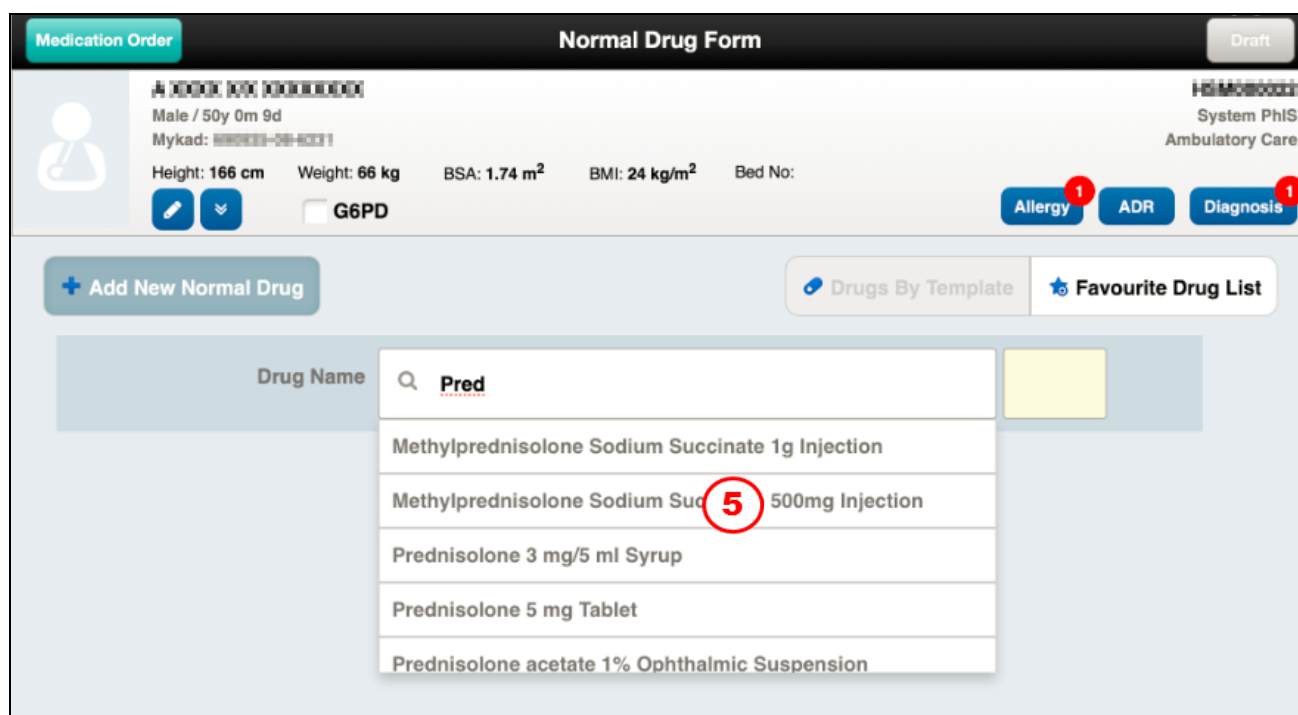


Figure 3.1.3-5 Order Screen Listing Page

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.

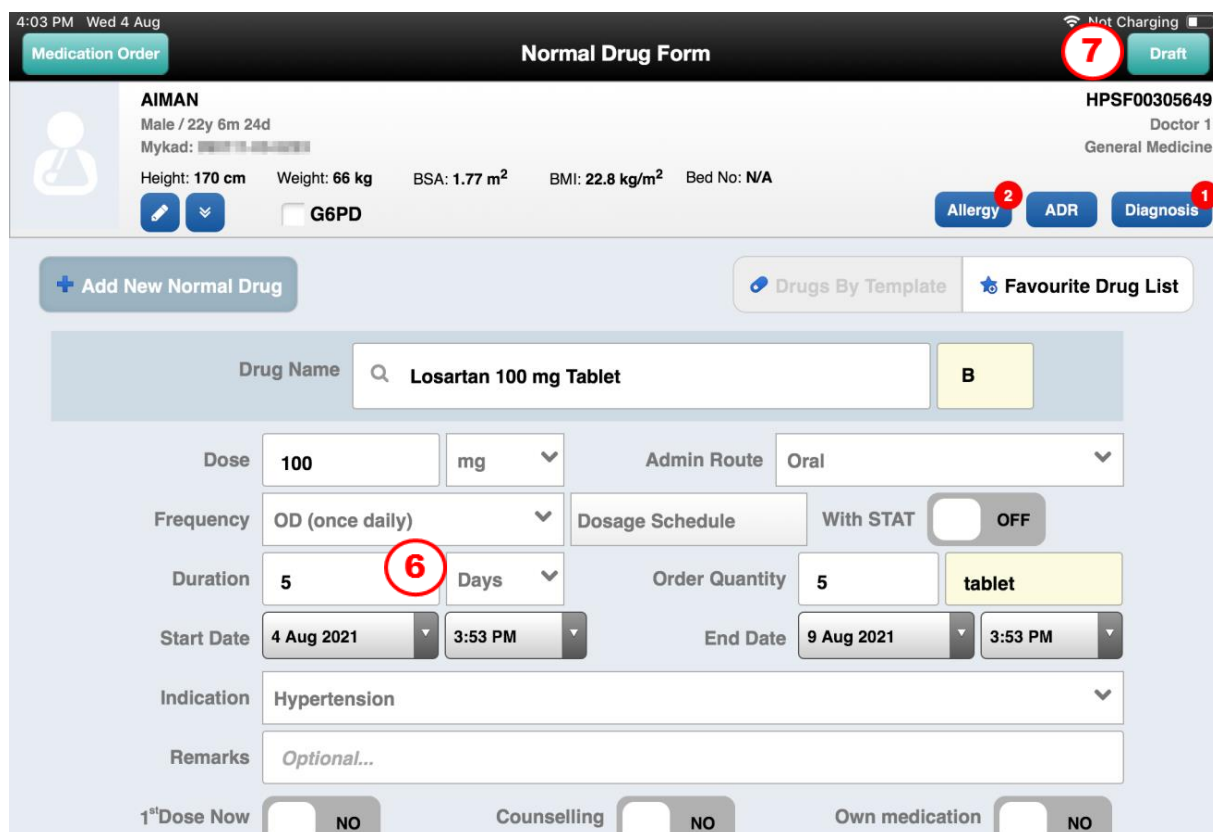


Figure 3.1.3-6 Normal Order Detail Screen

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
- Prescriber is allowed to check on **With STAT** button to add STAT frequency on the medicine prescribes. Once user check **With STAT** button, **1st Dose Now** button will be disabled for user to tap
- **Prescriber** is allowed to tap on **1st Dose Now** button. Once User check on **1st**

Dose To Serve, With STAT button will be disable for user to tap

- **Counselling Indication**  button can be selected if prescriber want pharmacist to counsel the patient on the medicines.
- Check the **Own Medication**  button if patient brought and used their own medication. Only applicable for inpatient and where pharmacist do not supply medication to the wards.
- Enter **Remark** if applicable.
- For same patient that have an active medication, alert message will be display upon tap on the  if there are duplicate drug prescribe as shown in figure 3.1.3-7

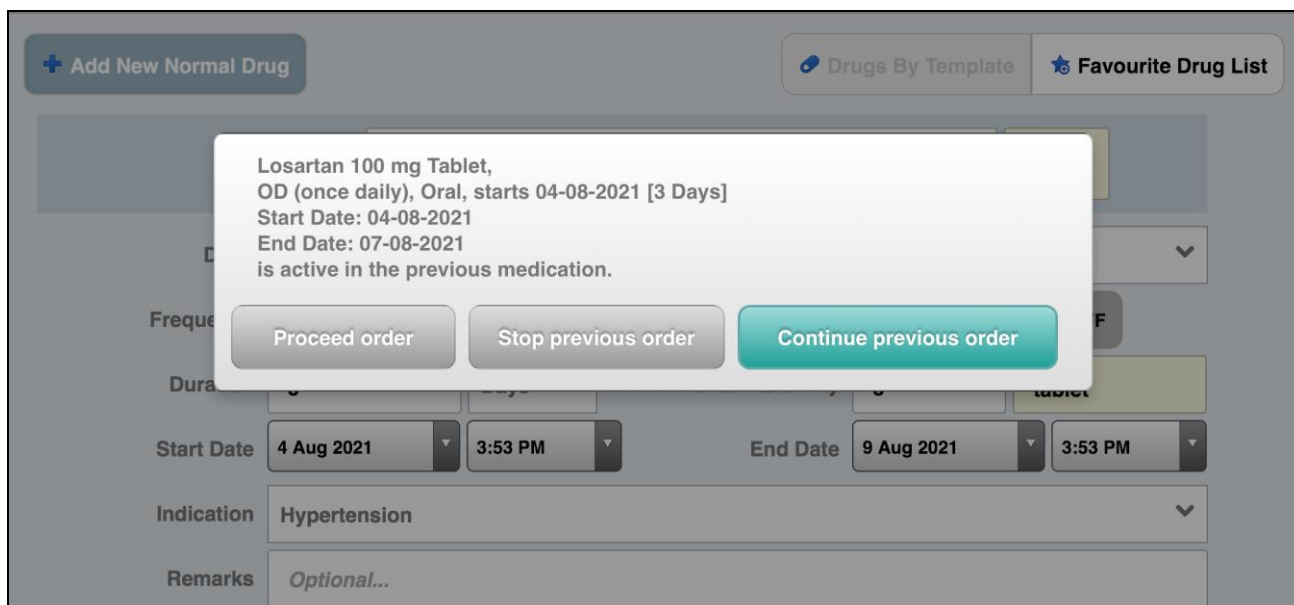
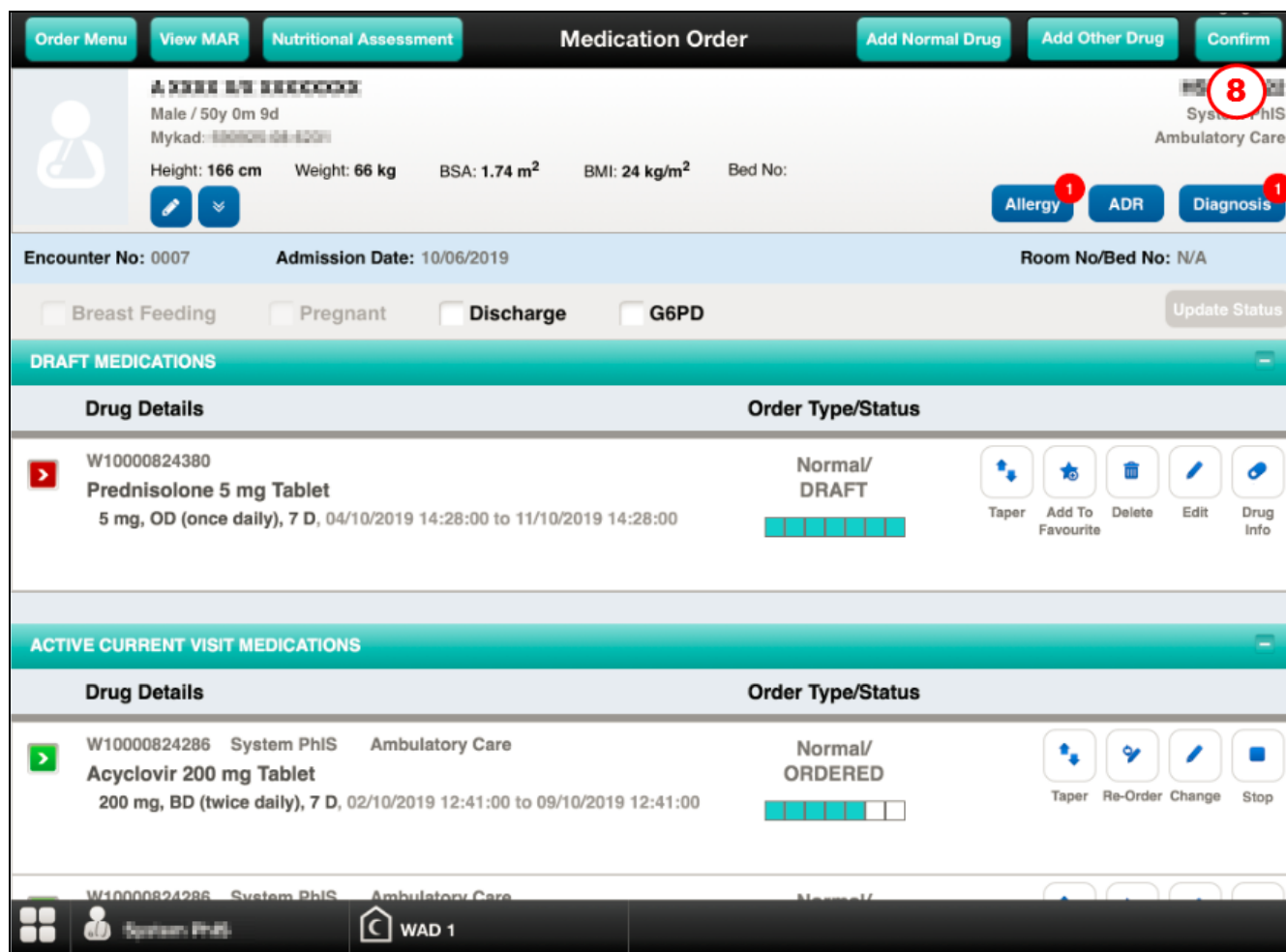


Figure 3.1.3-7 Duplicate Alert Message

- User can tap on :
- **Proceed Order** button – Allow to add duplicate drug.
- **Stop Previous Order** button – Previous order will be stop and new order will be continue
- **Continue Previous Order** button – Previous order will be continue and new order will not be included
- This alert message will display for the drug that has no setting for '**Allow Duplicate**' in **Drug Master**



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

Male / 50y 0m 9d
Mykad: [REDACTED]
Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² Bed No:

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 Prednisolone 5 mg Tablet 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 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

WAD 1

Figure 3.1.3-8 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 process

Note

- For paediatric patient, there will be a dose calculator for children dose calculation (dose/kg weight)

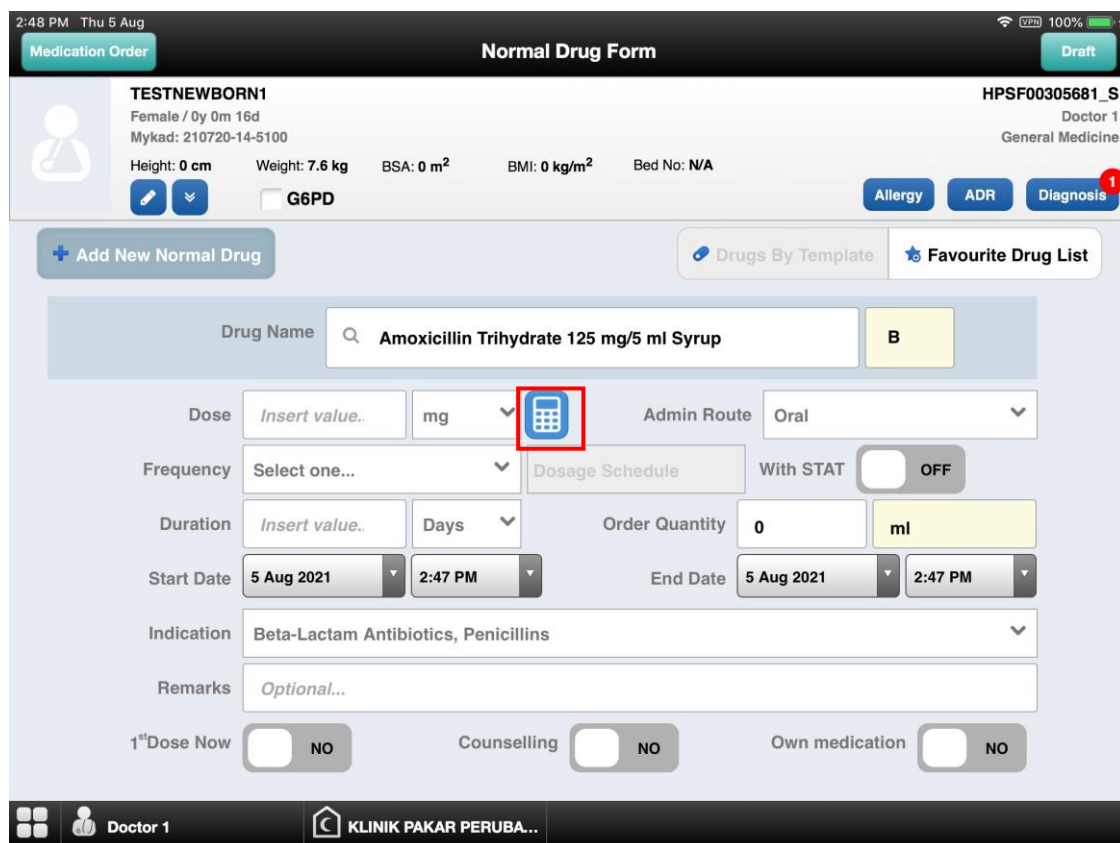


Figure 3.1.3-9 Normal Order Detail Screen

- If user used unit mg/kg, calculated dose as below, **height is not mandatory**
 - If select dose UOM as “mg/kg” or any unit dose in “xx/kg”, ignore Height field
 - Calculated Dose = “dose” x “weight”
- If user used unit of mg/m², calculated dose as below, **height will be mandatory**
 - If select dose unit e.g. “mg/BSA” @ “mg/m²” or any unit dose in “xx/BSA” @ “xx/m²”
 - Calculated dose formula = “dose” x “BSA”

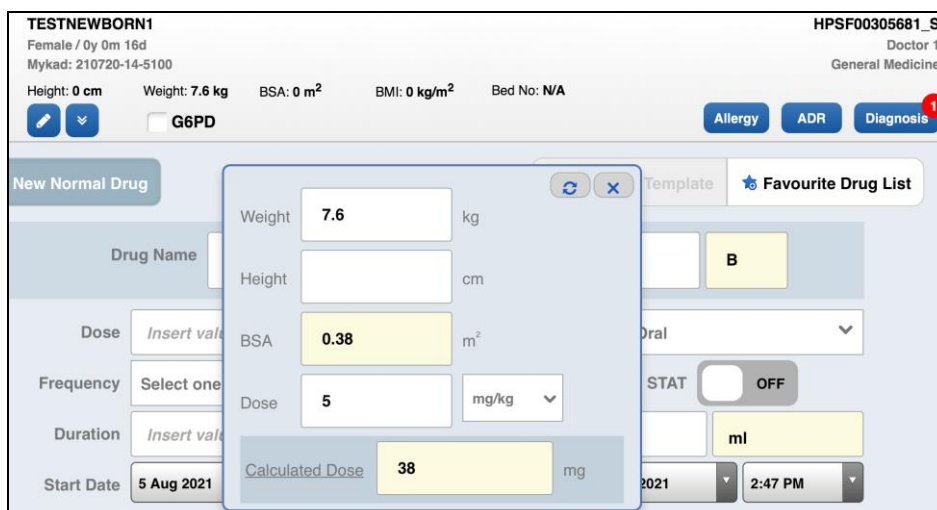


Figure 3.1.3-10 Normal Order Detail Screen

- Tap on **Calculate Dose link** and system will calculate dose for the patient
- Once dose has been calculated, tap on Close  button. Dose value will be copied automatically to Dose column.

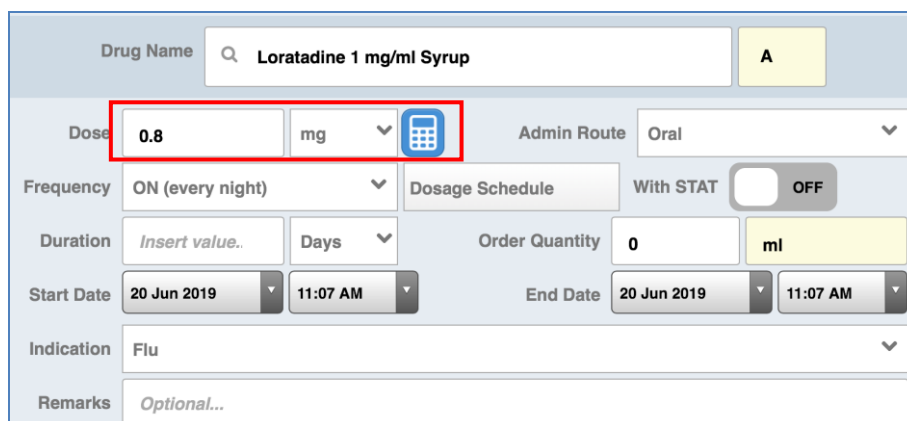
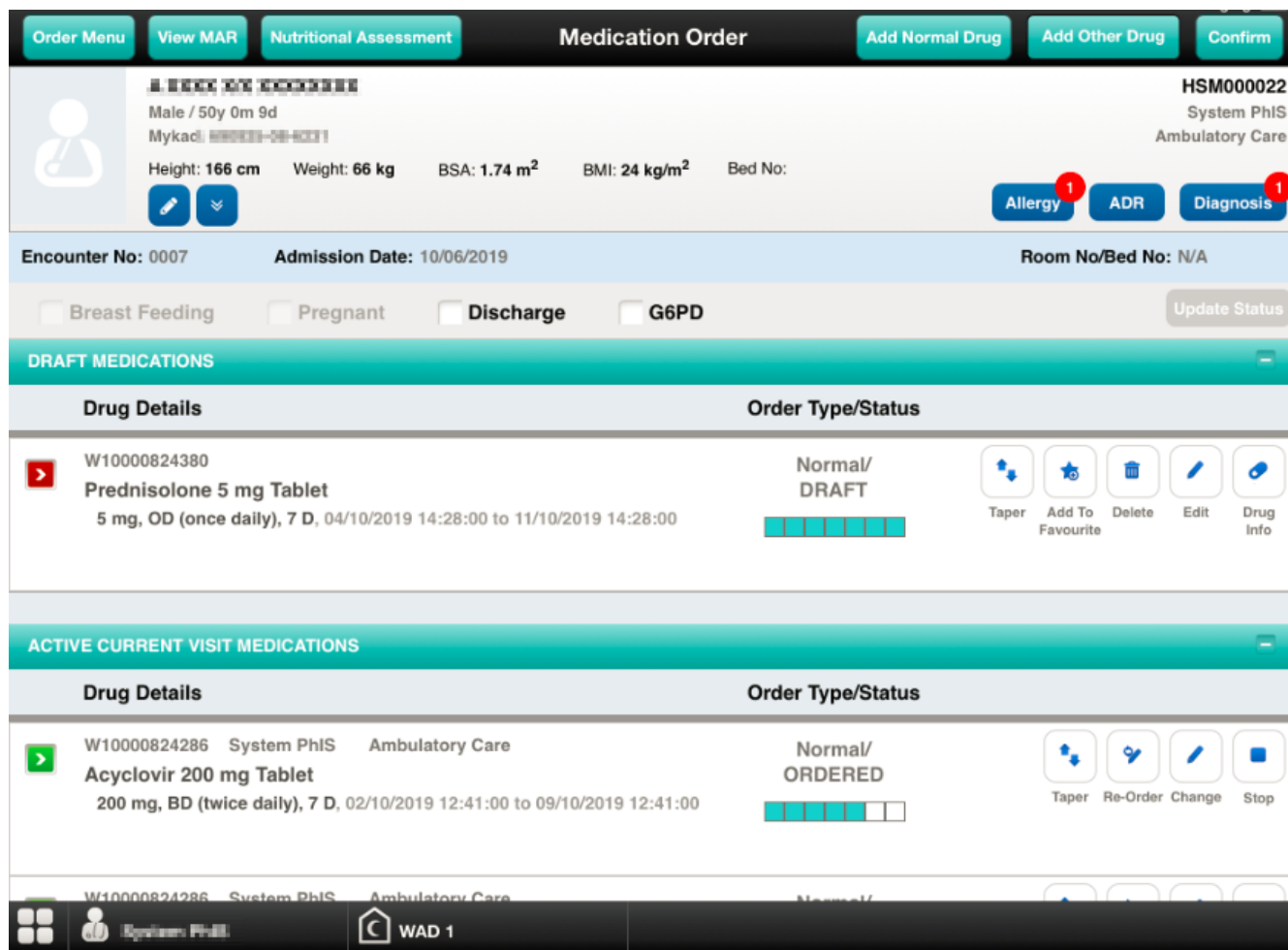


Figure 3.1.3-11 Normal Order Detail Screen

- 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.



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

Male / 50y 0m 9d
Mykad: [REDACTED]
Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² Bed No:

HSM000022
System PhIS
Ambulatory Care

Allergy **ADR** **Diagnosis**

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	Actions
W10000824380 Prednisolone 5 mg Tablet 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	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

WAD 1

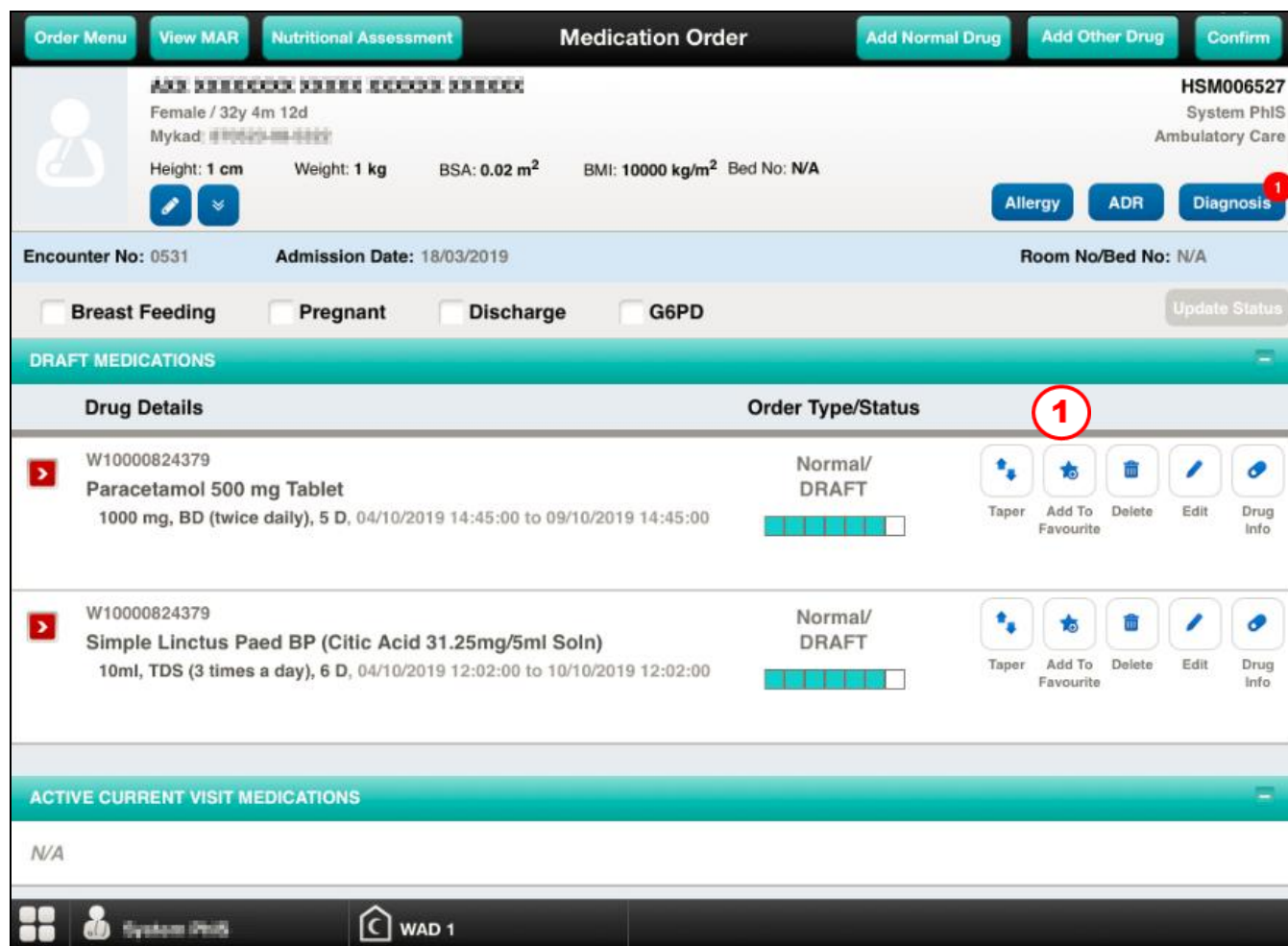
Figure 3.1.3-12 Normal Order Detail Screen

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 [REDACTED] will indicate the number of days order is being created. If all bar coloured (green), it means order duration is for 7 days.

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 m²', 'BMI: 10000 kg/m²', 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'. At the bottom, there are icons for a grid, a person, 'System PhIS', and 'WAD 1'.

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

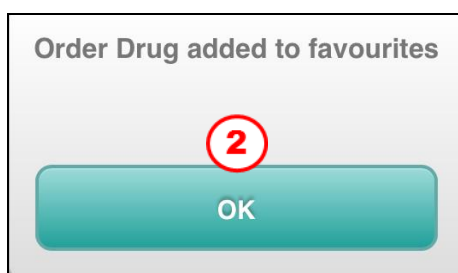
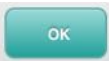
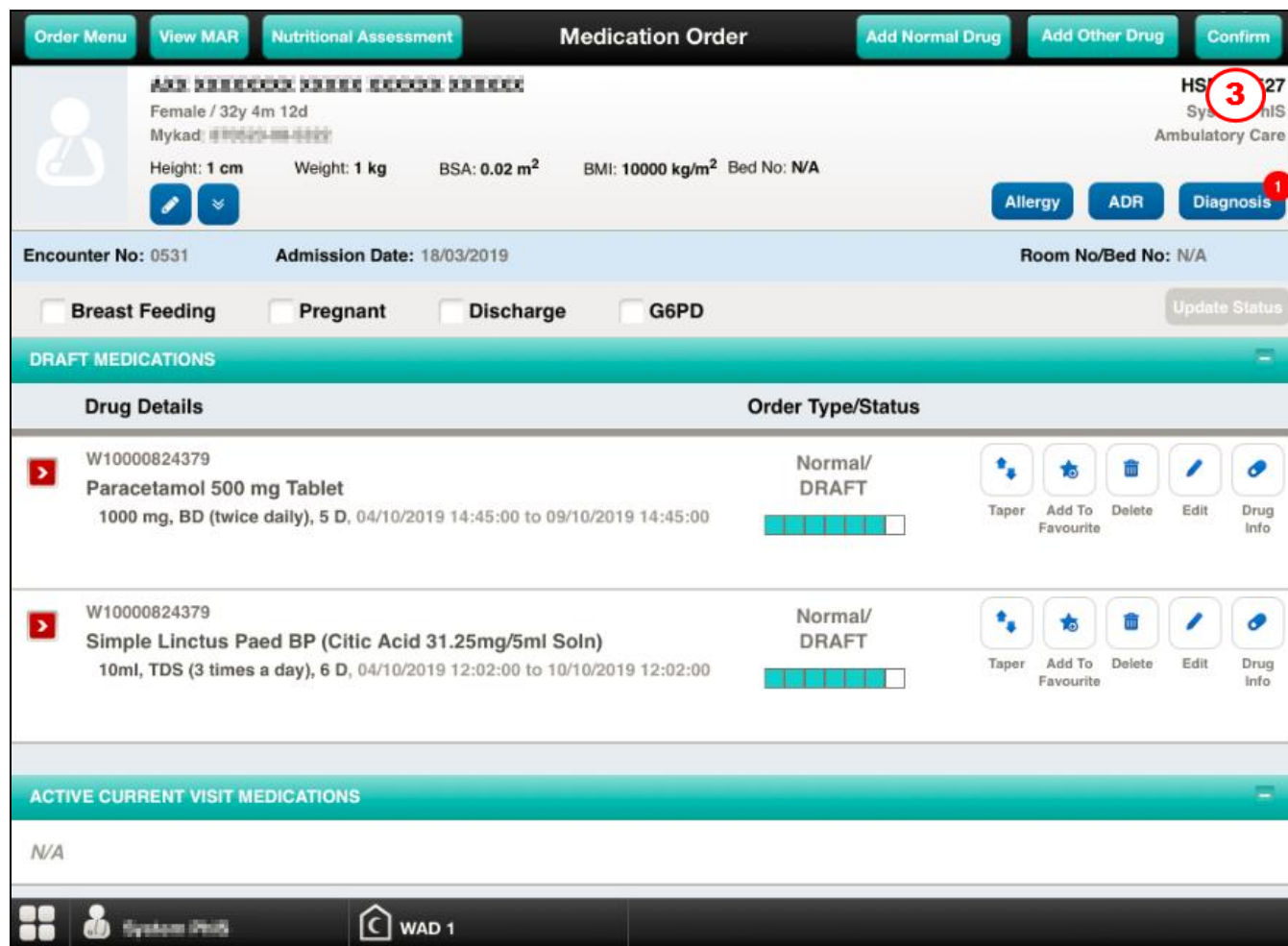


Figure 3.1.4-2 Add to Favorites Option Screen

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 m²', 'BMI: 10000 kg/m²', 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 main section is titled 'DRAFT MEDICATIONS' and contains a table with two entries:

Drug Details	Order Type/Status	Actions
W10000824379 Paracetamol 500 mg Tablet 1000 mg, BD (twice daily), 5 D, 04/10/2019 14:45:00 to 09/10/2019 14:45:00	Normal/ DRAFT	Taper Add To Favourite Delete Edit Drug Info
W10000824379 Simple Linctus Paed BP (Citric Acid 31.25mg/5ml Soln) 10ml, TDS (3 times a day), 6 D, 04/10/2019 12:02:00 to 10/10/2019 12:02:00	Normal/ DRAFT	Taper Add To Favourite Delete Edit Drug Info

Below the draft medications, there is a section for 'ACTIVE CURRENT VISIT MEDICATIONS' which currently shows 'N/A'. At the bottom, there is a navigation bar with icons for a grid, a person, 'System Profile', a house icon, and 'WAD 1'.

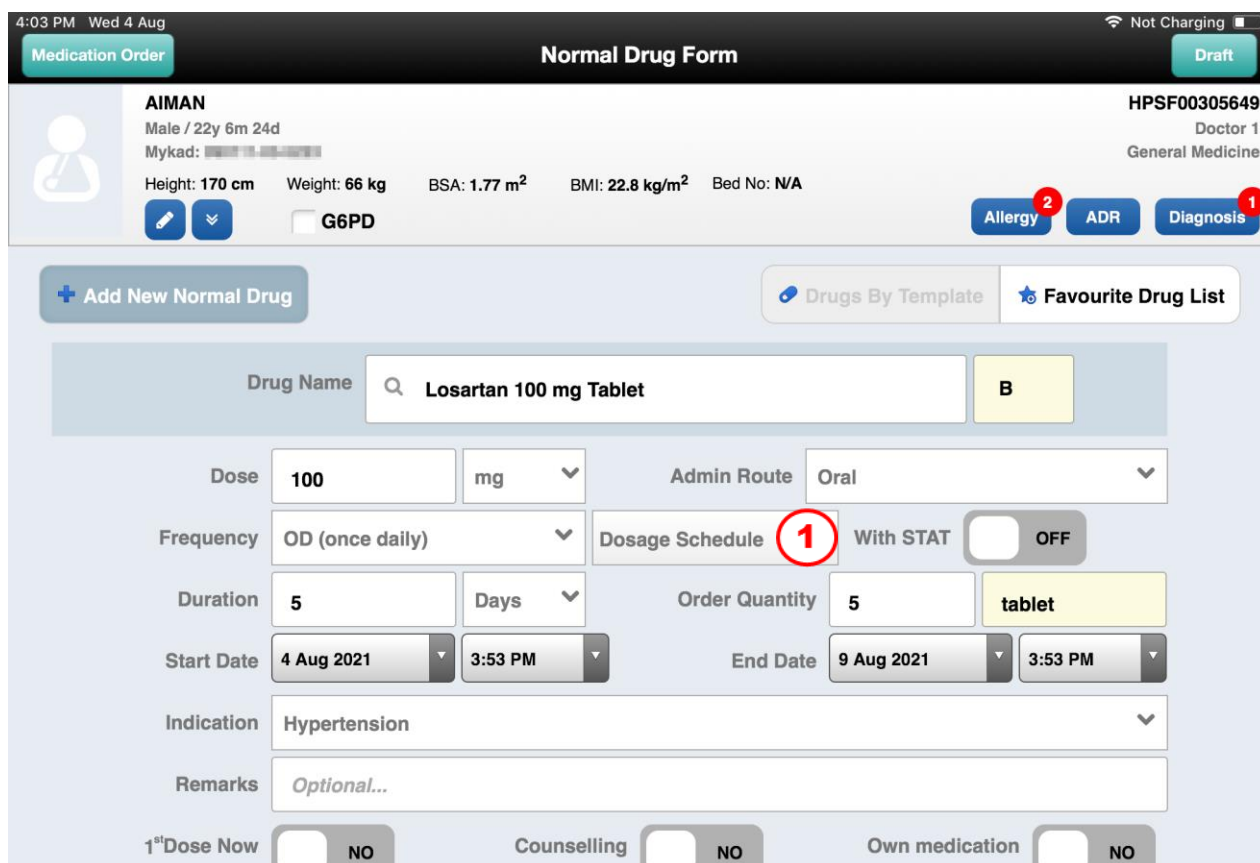
Figure 3.1.4-3 Add to Favorites Option Screen

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.



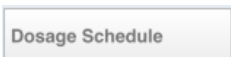
The screenshot shows the 'Normal Drug Form' interface. At the top, it displays the time '4:03 PM Wed 4 Aug' and a 'Draft' button. The patient information section includes a profile icon, name 'AIMAN', age 'Male / 22y 6m 24d', Mykad, and physical attributes: Height: 170 cm, Weight: 66 kg, BSA: 1.77 m², BMI: 22.8 kg/m², Bed No: N/A. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis'. The main form area has a 'Drug Name' field with 'Losartan 100 mg Tablet' and a 'B' button. Below this, there are fields for 'Dose' (100 mg), 'Admin Route' (Oral), 'Frequency' (OD (once daily)), 'Dosage Schedule' (circled with a red '1'), 'With STAT' (OFF), 'Duration' (5 Days), 'Order Quantity' (5 tablet), 'Start Date' (4 Aug 2021, 3:53 PM), 'End Date' (9 Aug 2021, 3:53 PM), 'Indication' (Hypertension), and 'Remarks' (Optional...). At the bottom, there are checkboxes for '1st Dose Now' (NO), 'Counselling' (NO), and 'Own medication' (NO).

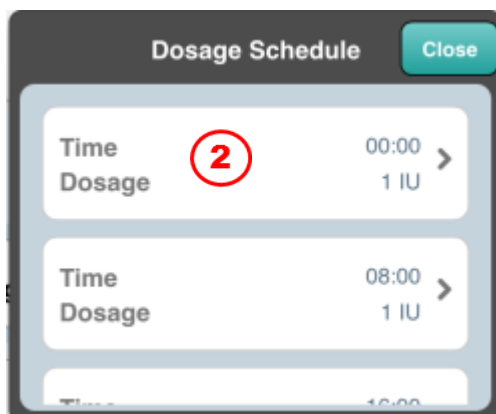
Figure 3.1.5-1 Normal Order Screen

Note

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

STEP 1

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

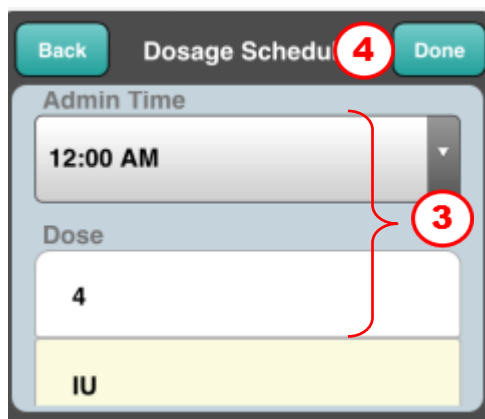


The screenshot shows the 'Dosage Schedule' modal. It has a 'Close' button at the top right. The modal contains a list of dosages. The first entry is 'Time 00:00' and 'Dosage 1 IU', with the 'Time' field circled by a red '2'. The second entry is 'Time 08:00' and 'Dosage 1 IU'. There is a third entry partially visible at the bottom with '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 title is 'Dosage Schedule' with a red circle '4' next to it. Below the title, there is a section for 'Admin Time' with a dropdown menu showing '12:00 AM'. Below that is a section for 'Dose' with a text input field containing '4' and a red circle '3' next to it. At the bottom, there is a yellow bar with the text 'IU'.

Figure 3.1.5-3 Split Dose Schedule Screen

STEP 3

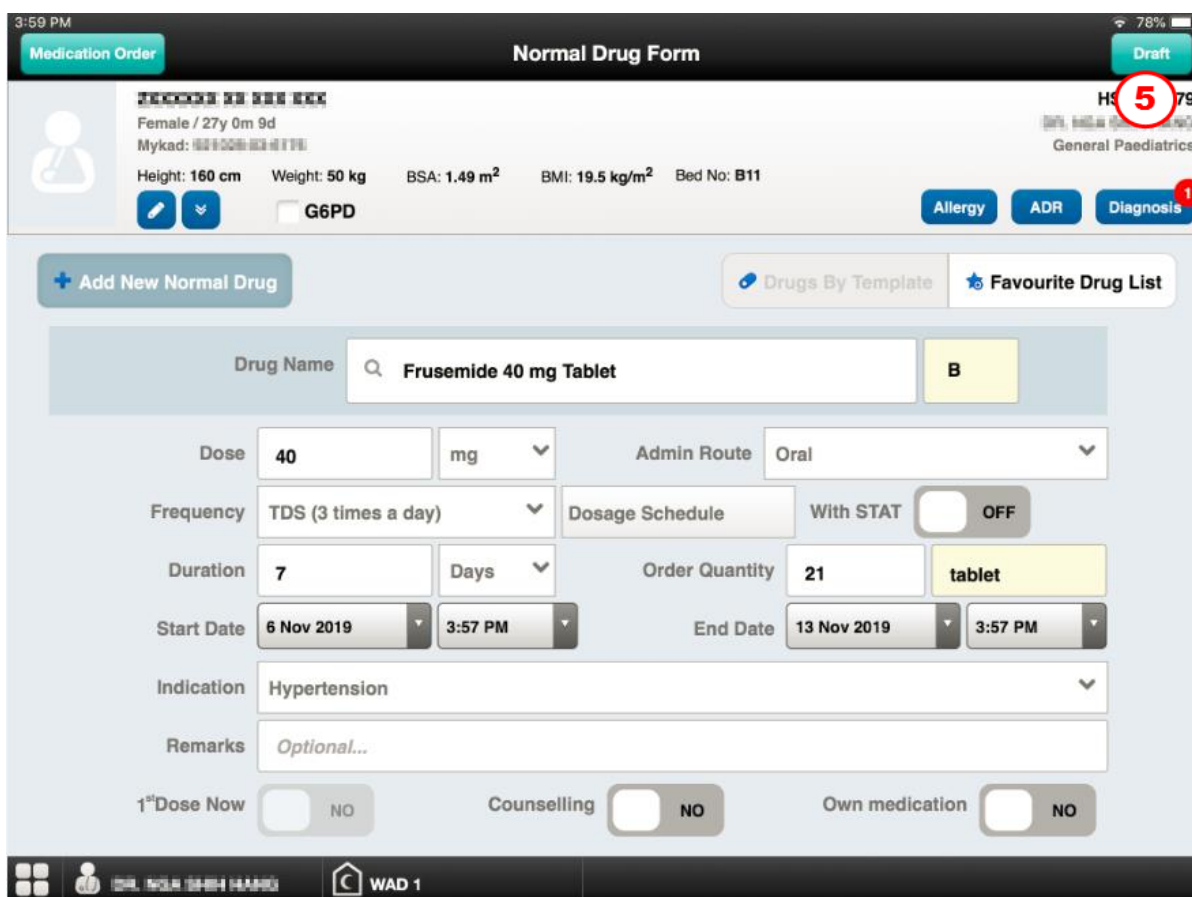
Enter **Admin Time** and **Dose** for each administration

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 maximum up to 8 times dose/time for frequency, example 6x/7x/8x Daily



The screenshot shows the 'Normal Drug Form' screen. At the top, there is a 'Medication Order' button and a 'Draft' button. Below the title, there is a patient information section with fields for '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'. There is also a 'G6PD' checkbox. To the right, there is a 'Diagnosis' button with a red circle '5' next to it. Below the patient information, there is a section for 'Add New Normal Drug' with a search bar containing 'Frusemide 40 mg Tablet' and a 'B' button. Below the search bar, there are fields for 'Dose' (40 mg), 'Admin Route' (Oral), 'Frequency' (TDS (3 times a day)), 'Duration' (7 Days), 'Order Quantity' (21 tablet), 'Start Date' (6 Nov 2019 3:57 PM), 'End Date' (13 Nov 2019 3:57 PM), 'Indication' (Hypertension), and 'Remarks' (Optional...). At the bottom, there are three checkboxes: '1st Dose Now' (NO), 'Counselling' (NO), and 'Own medication' (NO).

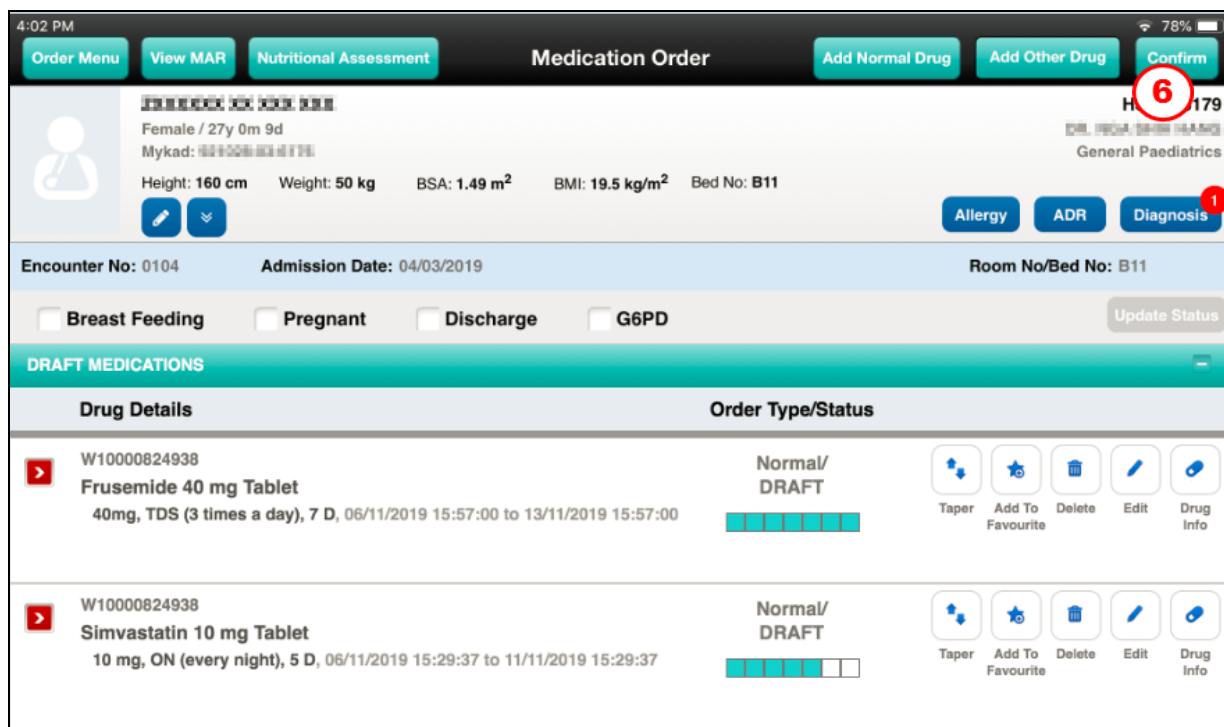
Figure 3.1.5-4 Order Screen

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



4:02 PM

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

Female / 27y 0m 9d
Mykad: 990000000000000000
Height: 160 cm Weight: 50 kg BSA: 1.49 m² BMI: 19.5 kg/m² Bed No: B11

Encounter No: 0104 Admission Date: 04/03/2019 Room No/Bed No: B11

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD Update Status

DRAFT MEDICATIONS

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

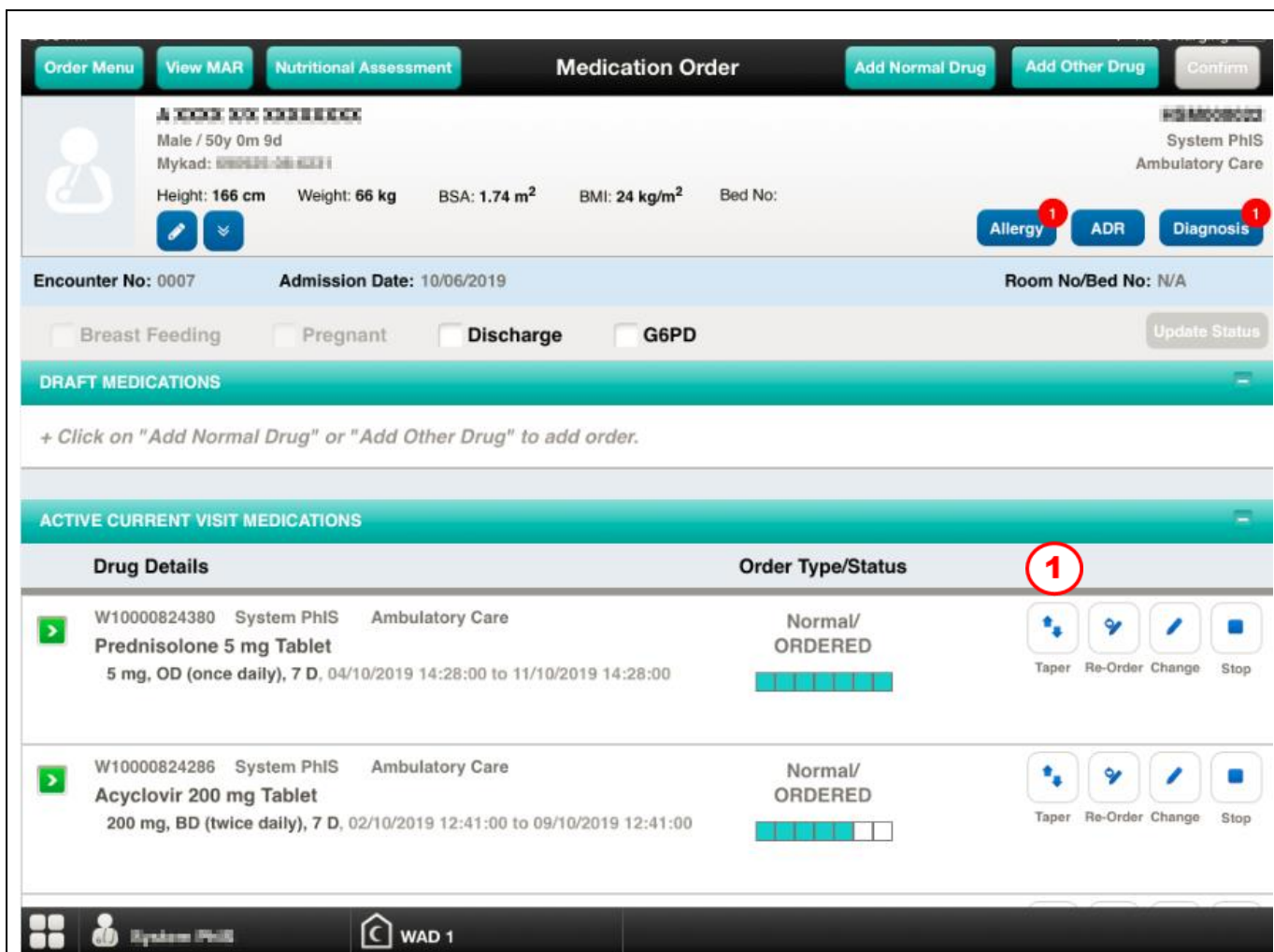
Figure 3.1.5-5 Order Screen

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 m² BMI: 24 kg/m² Bed No:
Allergy ADR Diagnosis

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 Prednisolone 5 mg Tablet 5 mg, OD (once daily), 7 D, 04/10/2019 14:28:00 to 11/10/2019 14:28:00	Normal/ ORDERED ■■■■■■■■■■	1 Taper Re-Order Change Stop
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

System PhIS WAD 1

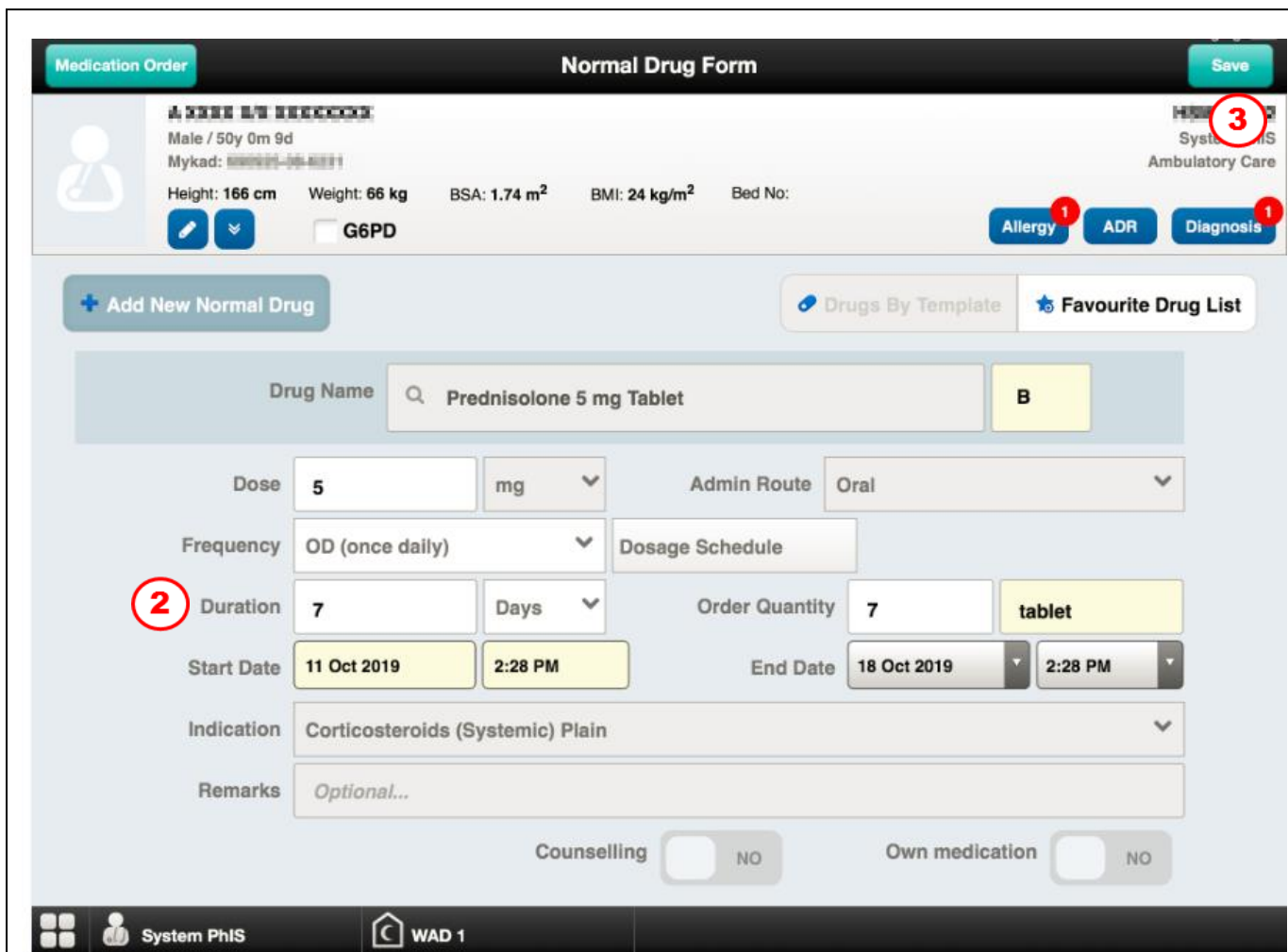
Figure 3.1.6-1 Order Screen

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 m² BMI: 24 kg/m² Bed No: [REDACTED]
G6PD [REDACTED]

Allergy ¹ ADR ¹ Diagnosis ¹

+ Add New Normal Drug Drugs By Template Favourite Drug List

Drug Name

Dose mg Admin Route

Frequency Dosage Schedule

² Duration Days Order Quantity

Start Date End Date

Indication

Remarks

Counselling Own medication

System PhIS WAD 1

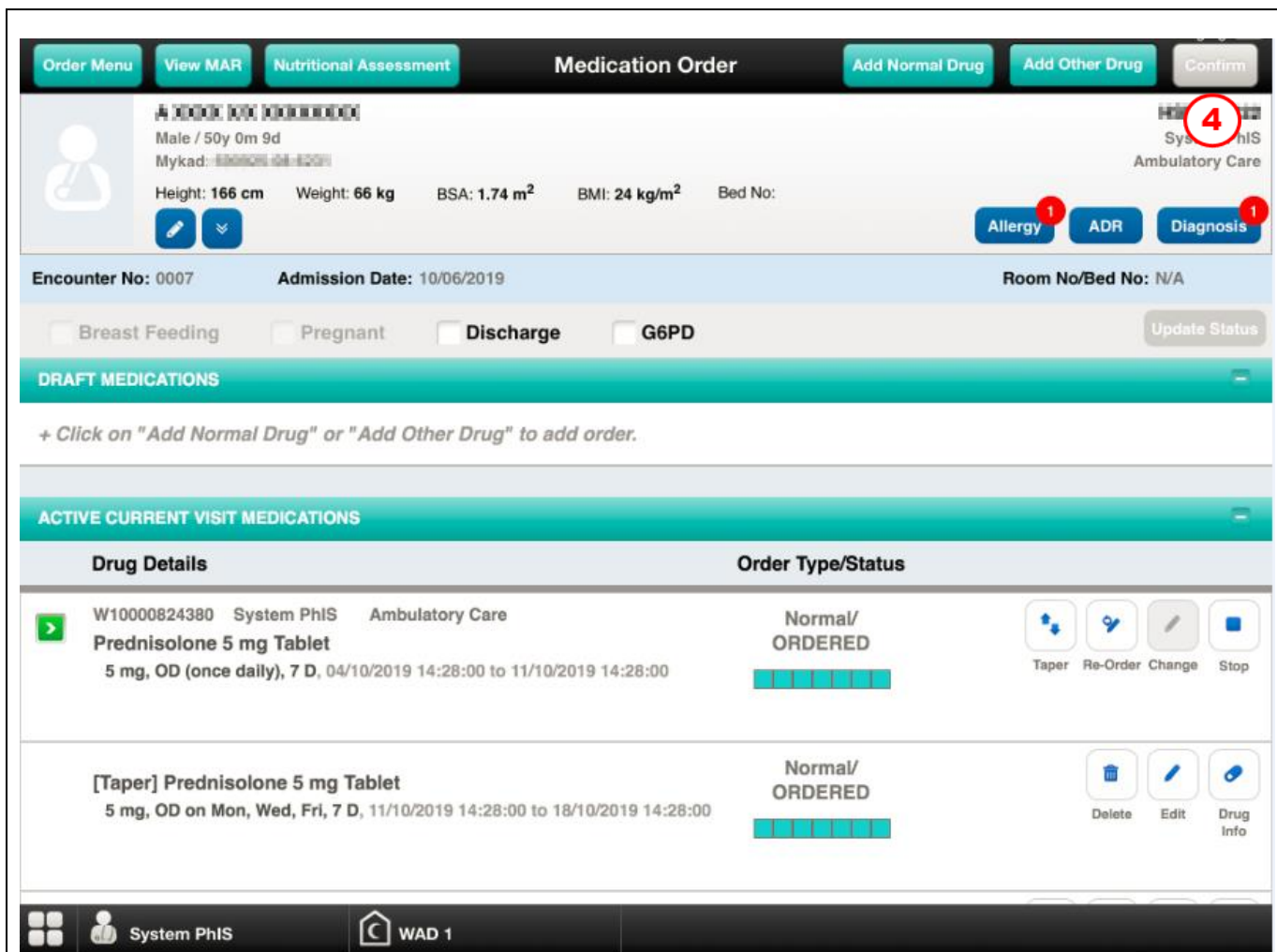
Figure 3.1.6-2 Normal Order Screen

STEP 2

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

STEP 3

Tap on the  button to save record



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

4

Male / 50y 0m 9d
Mykad: **XXXXXXXXXX**
Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² Bed No:

1 **1** **1**

Allergy **ADR** **Diagnosis**

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 Prednisolone 5 mg Tablet 5 mg, OD (once daily), 7 D, 04/10/2019 14:28:00 to 11/10/2019 14:28:00	Normal/ ORDERED	    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	   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 **Confirm** 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.

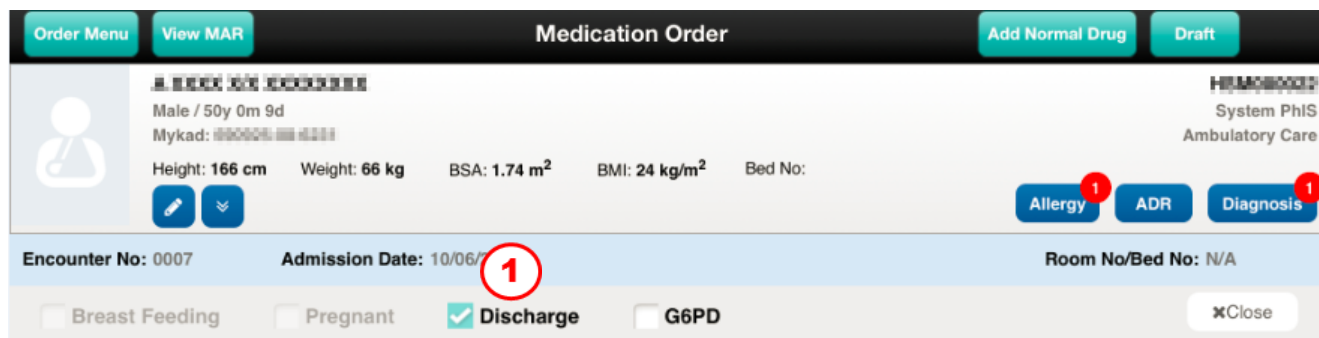


Figure 3.1.7-1 Normal Order Screen After Tapering

Note

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

STEP 1

Tap on the Discharge ☒ checkbox

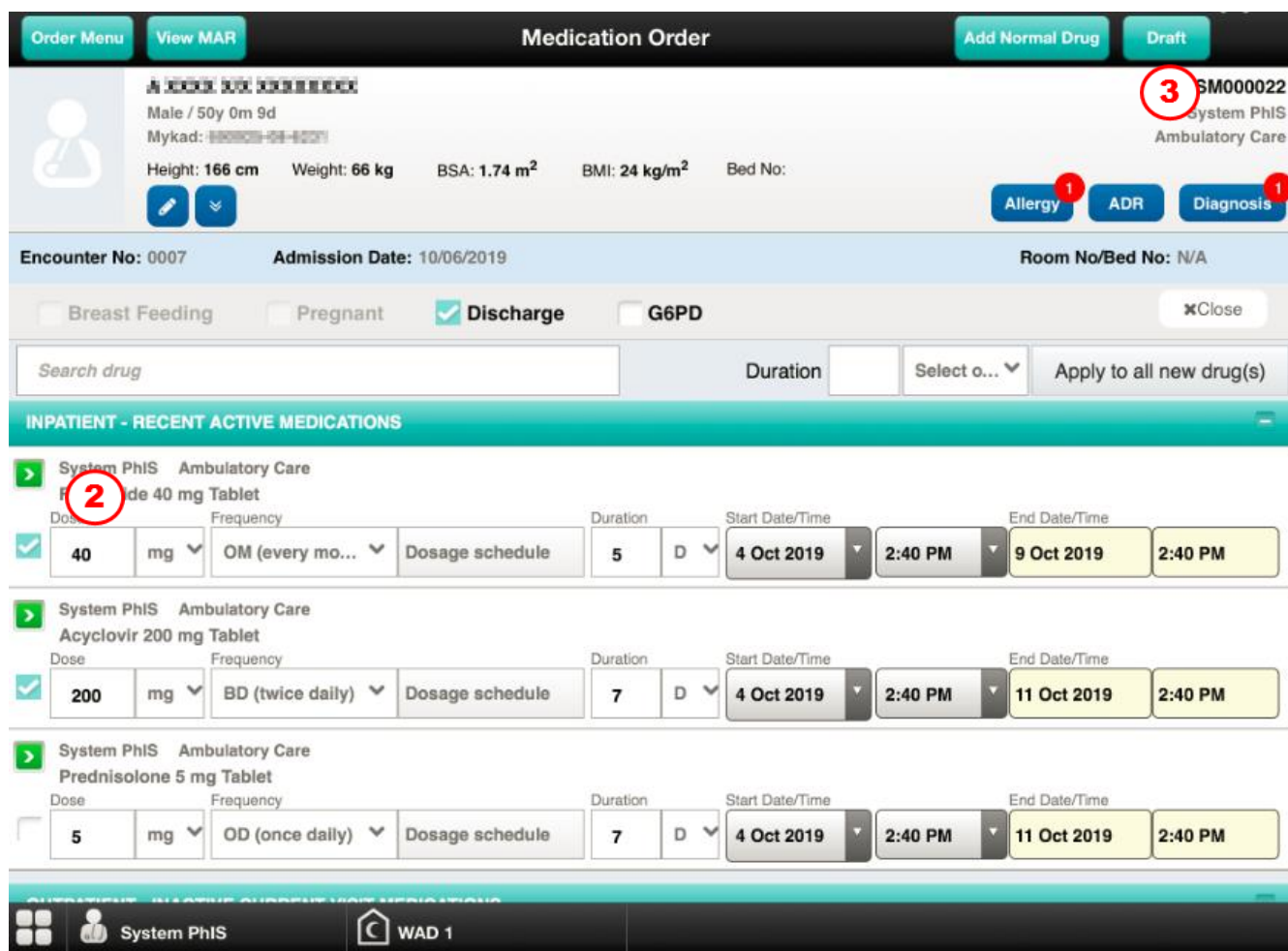


Figure 3.1.7-2 Normal Discharge Medication Screen

STEP 2

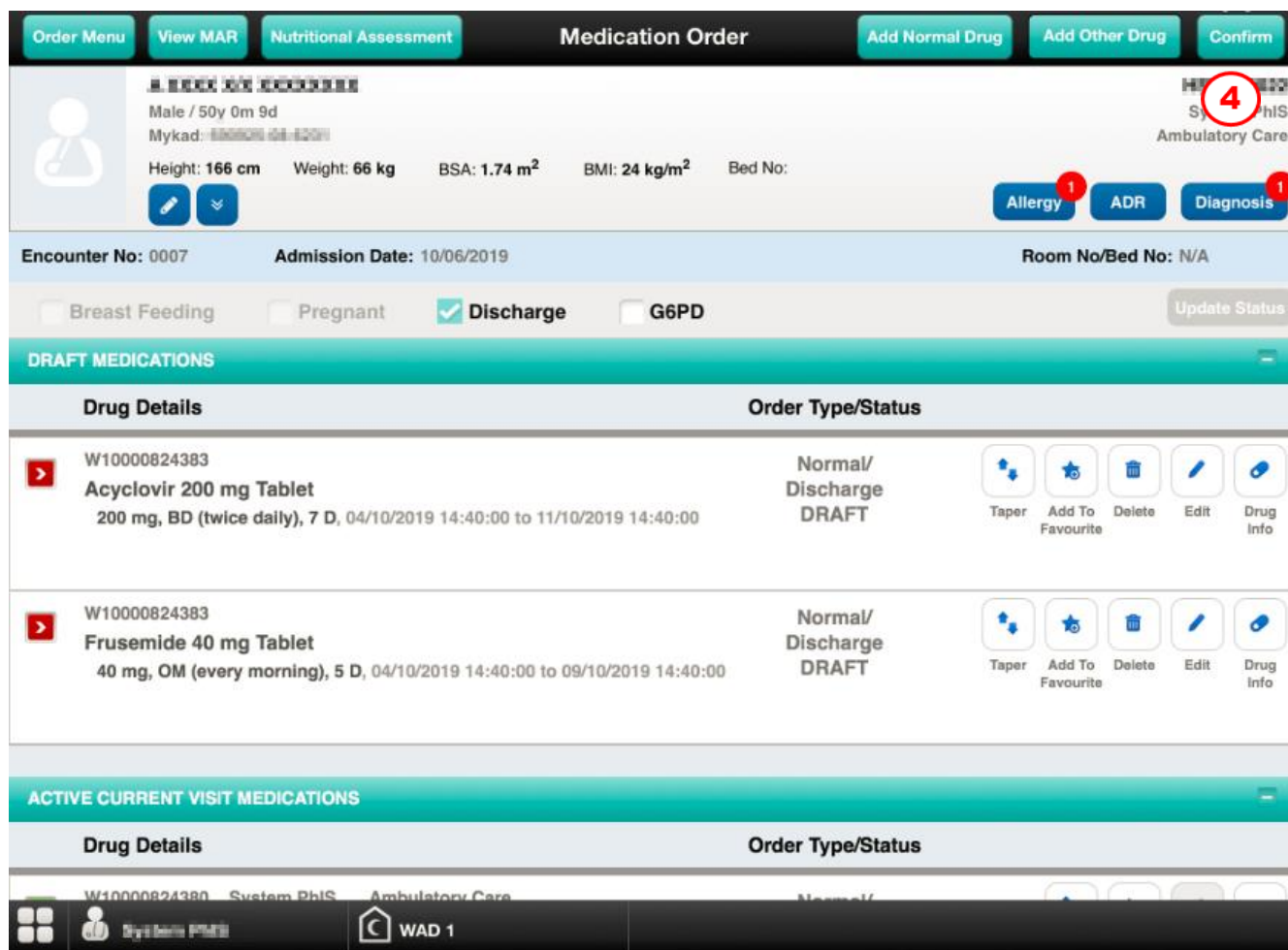
Tap on the ☐ checkbox to select drugs that want to continue after discharge

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: 880802-08-8201', 'Height: 166 cm', 'Weight: 66 kg', 'BSA: 1.74 m²', 'BMI: 24 kg/m²', and 'Bed No:'. There are also 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. Below this, there are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge' (checked), and 'G6PD'. An 'Update Status' button is present. The main section is titled 'DRAFT MEDICATIONS' and contains a table with two rows of medication details.

Drug Details	Order Type/Status	Actions
W10000824383 Acyclovir 200 mg Tablet 200 mg, BD (twice daily), 7 D, 04/10/2019 14:40:00 to 11/10/2019 14:40:00	Normal/Discharge DRAFT	Taper Add To Favourite Delete Edit Drug Info
W10000824383 Furosemide 40 mg Tablet 40 mg, OM (every morning), 5 D, 04/10/2019 14:40:00 to 09/10/2019 14:40:00	Normal/Discharge DRAFT	Taper Add To Favourite Delete Edit Drug Info

Below the draft medications, there is a section for 'ACTIVE CURRENT VISIT MEDICATIONS' which is currently empty. At the bottom, there is a navigation bar with icons for 'System PhIS', 'WAD 1', and 'Normal/Discharge'.

Figure 3.1.7-3 Normal Discharge Medication Screen

STEP 4

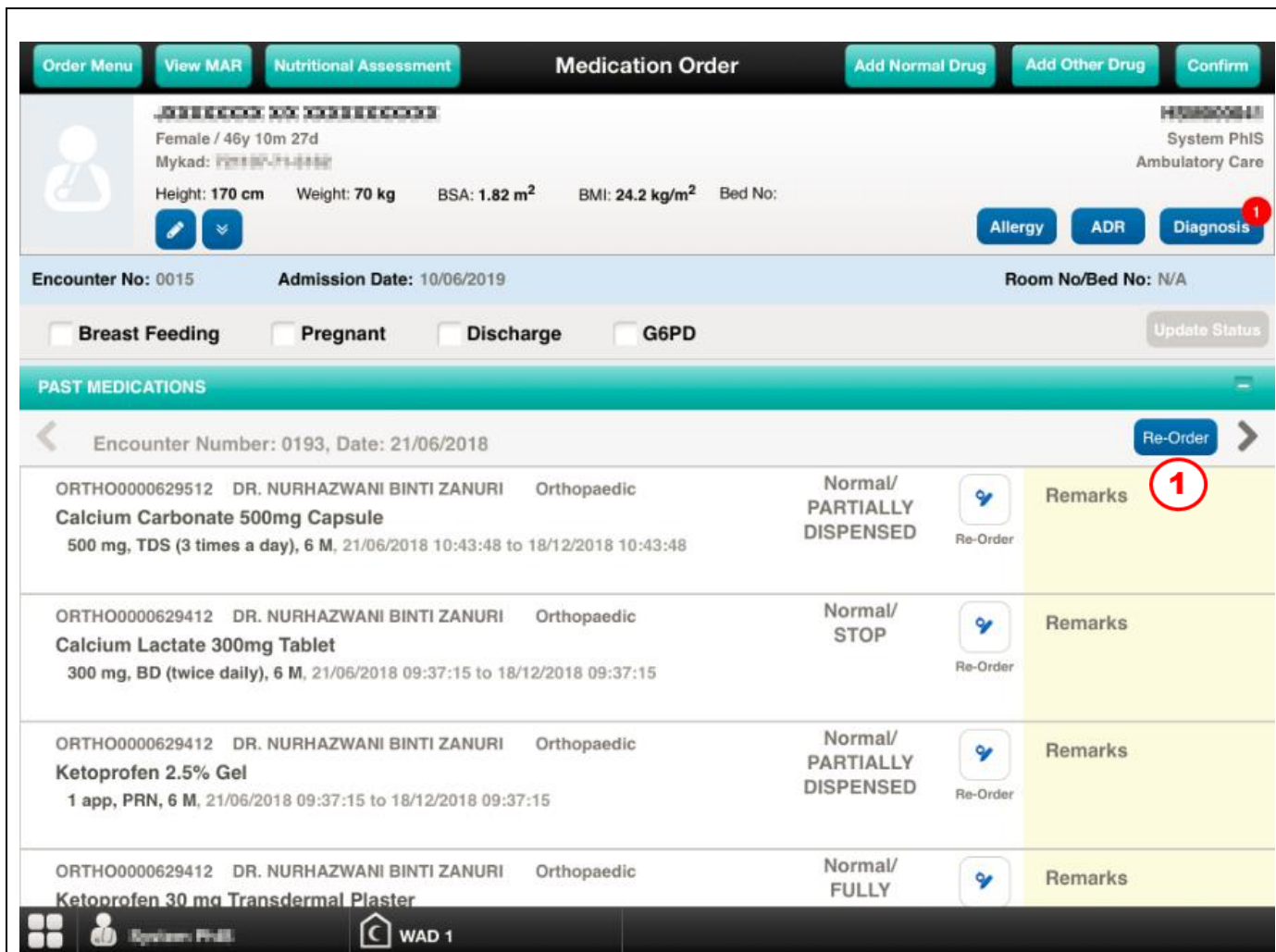
Tap on the **Confirm** button

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.



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

Patient Information:
 Female / 46y 10m 27d
 Mykad:
 Height: 170 cm Weight: 70 kg BSA: 1.82 m² BMI: 24.2 kg/m² Bed No:
 Allergy ADR Diagnosis ¹

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

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

PAST MEDICATIONS

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

ORTHO0000629512 DR. NURHAZWANI BINTI ZANURI Orthopaedic Calcium Carbonate 500mg Capsule 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 ¹
ORTHO0000629412 DR. NURHAZWANI BINTI ZANURI Orthopaedic Calcium Lactate 300mg Tablet 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 Ketoprofen 2.5% Gel 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 Ketoprofen 30 mg Transdermal Plaster	Normal/ FULLY	 Re-Order	Remarks

WAD 1

Figure 3.1-8-1 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 m² BMI: 24.2 kg/m² Bed No:

Allergy ADR Diagnosis

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

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD ✕Close

Duration: 4 Days Apply to all new drug(s)

RENEW PAST MEDICATIONS

DR. MUHAMMAD BINTI ISMAIL Orthopaedic

Calcium Carbonate 500mg Capsule

☒

mg

TDS (3 times a...)

Dosage schedule

6

M

4 Oct 2019

2:48 PM

4 Apr 2020

2:48 PM

DR. MUHAMMAD BINTI ISMAIL Orthopaedic

Calcium Lactate 300mg Tablet

☒

300

mg

BD (twice daily)

Dosage schedule

6

M

4 Oct 2019

2:48 PM

4 Apr 2020

2:48 PM

DR. MUHAMMAD BINTI ISMAIL Orthopaedic

Ketoprofen 2.5% Gel

☐

1

app

PRN

Dosage schedule

6

M

4 Oct 2019

2:48 PM

4 Apr 2020

2:48 PM

DR. MUHAMMAD BINTI ISMAIL Orthopaedic

System Profile

WAD 1

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 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: 
Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² 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

 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     
 W10000824286 System PhIS 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 Normal/ ORDERED     
 W10000824186 DR. TANG JYH JONG Dermatology [Cancel] CHOP Hematology, 21 D, 20/09/2019 to 11/10/2019 CDR/ ORDER WAS CANCELED     
 W10000824191 DR. TANG JYH JONG Dermatology [Cancel] CHOP Hematology, 21 D, 20/09/2019 to 11/10/2019 CDR/ ORDER WAS CANCELED     

  System PhIS  WAD 1

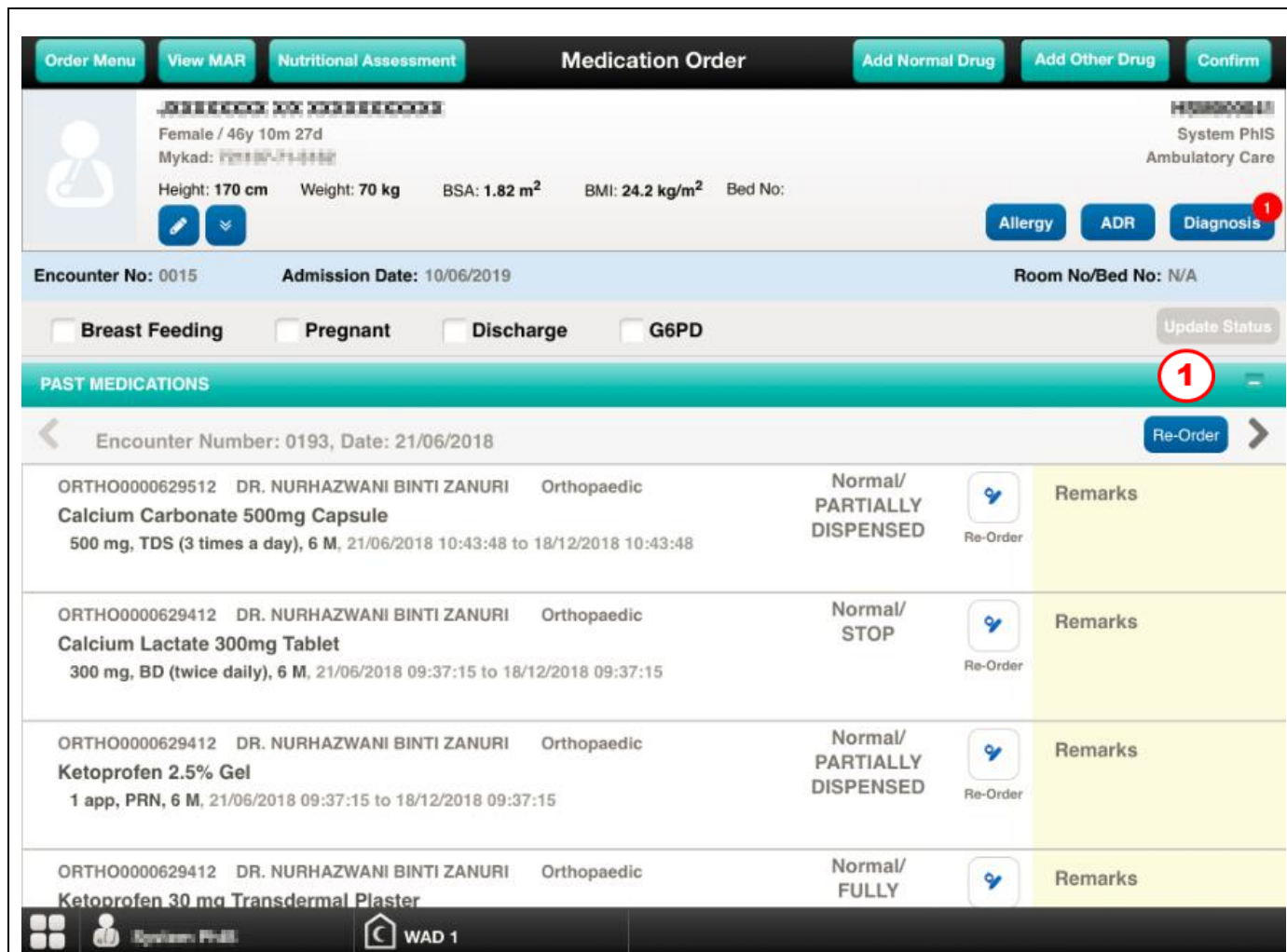
Figure 3.1-8-3 Normal Order Screen

STEP 4

Tap on the  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 m² BMI: 24.2 kg/m² Bed No:
 

System PhIS Ambulatory Care

Allergy **ADR** **Diagnosis** ¹

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

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

PAST MEDICATIONS ¹

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

ORTHO0000629512 DR. NURHAZWANI BINTI ZANURI Orthopaedic Calcium Carbonate 500mg Capsule 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 Calcium Lactate 300mg Tablet 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 Ketoprofen 2.5% Gel 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 Ketoprofen 30 mg Transdermal Plaster	Normal/ FULLY	 Re-Order	Remarks

  System PhIS  WAD 1

Figure 3.1-9-1 Medication Order Screen

STEP 1

Click on the  button

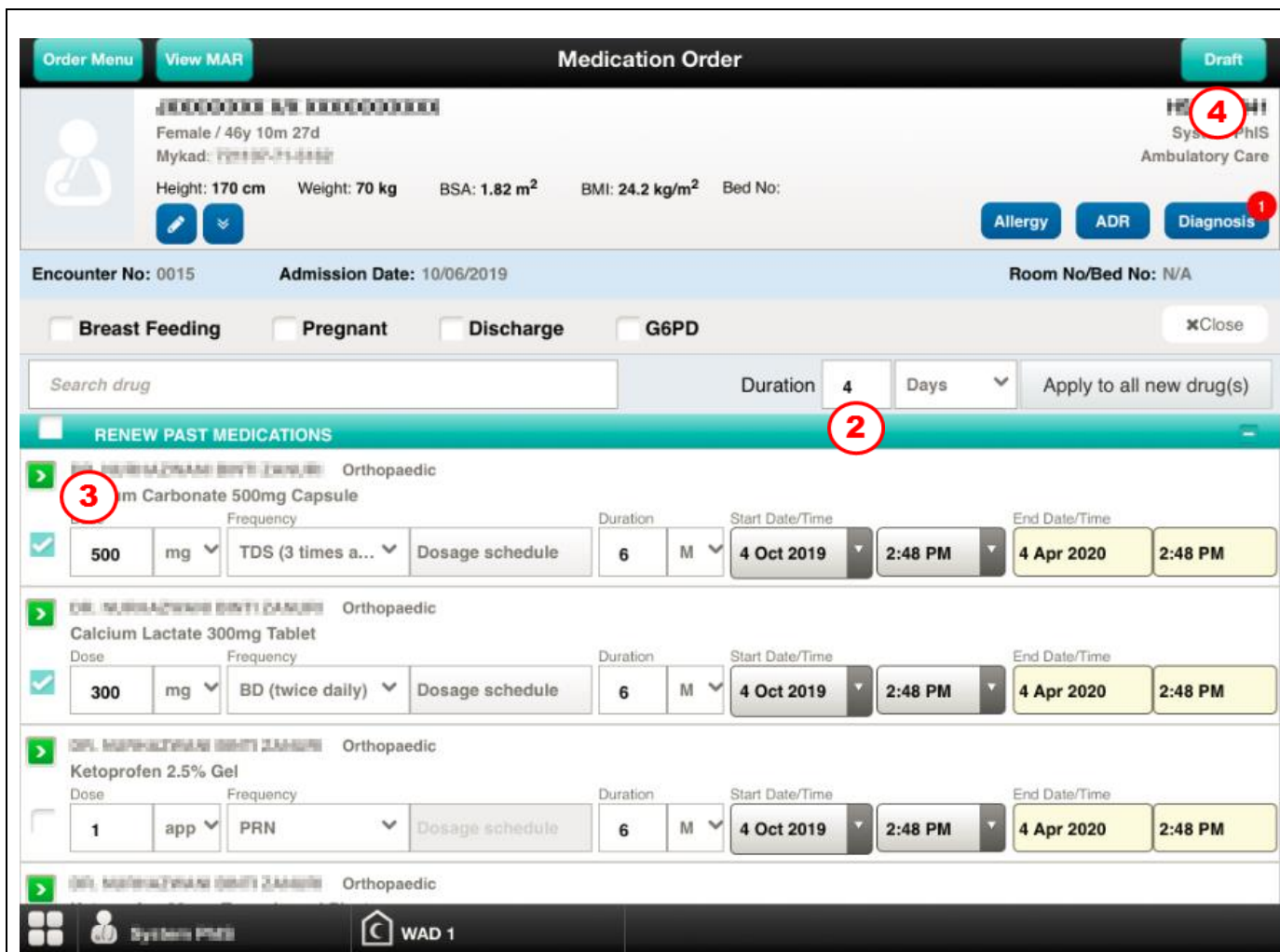


Figure 3.1-9-2 Medication Profile Screen

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 **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: 
Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² Bed No:




Allergy
ADR
Diagnosis

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

☐ Breast Feeding
☐ Pregnant
☐ Discharge
☐ G6PD
Update Status

 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	   
 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	   
 W10000824186 DR. TAMU JYH JONG Dermatology [Cancel] CHOP Hematology, 21 D, 20/09/2019 to 11/10/2019	CDR/ ORDER WAS CANCELED	   
 W10000824191 DR. TAMU JYH JONG Dermatology [Cancel] CHOP Hematology, 21 D, 20/09/2019 to 11/10/2019	CDR/ ORDER WAS CANCELED	   


 System PhIS

 WAD 1

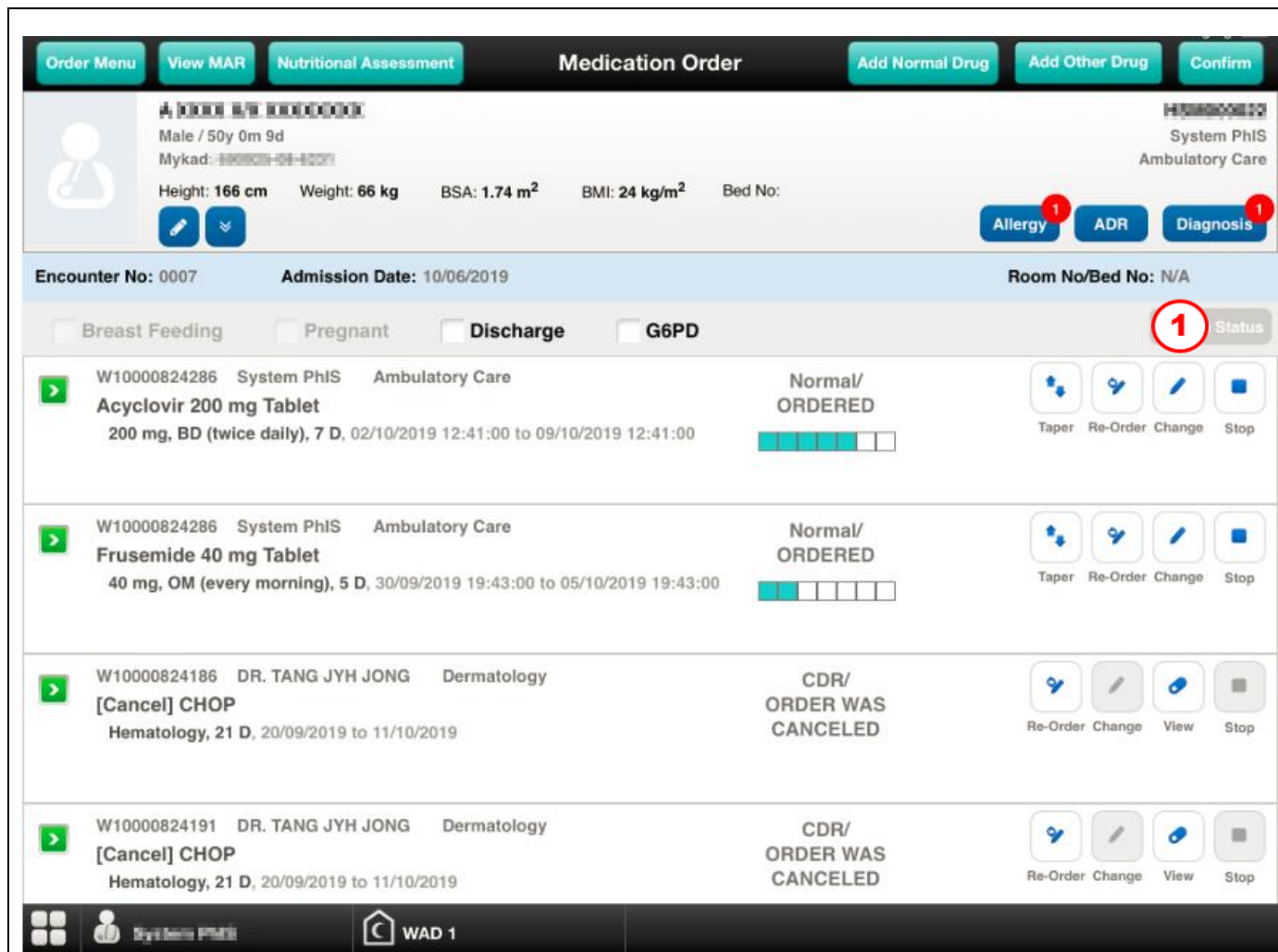
Figure 3.1-9-3 Normal Order Screen

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: [REDACTED]
Height: 166 cm Weight: 66 kg BSA: 1.74 m² BMI: 24 kg/m² Bed No: [REDACTED]

System PhIS Ambulatory Care

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

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: 12345678901234567890

Height: 166 cm

Weight: 66 kg

BSA: 1.74 m²

BMI: 24 kg/m²

Bed No:

☐ G6PD

Allergy

ADR

Diagnosis

System PhIS

Ambulatory Care

+ Add New Normal Drug

Drugs By Template

Favourite Drug List

Drug Name

Acyclovir 200 mg Tablet

A/KK

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

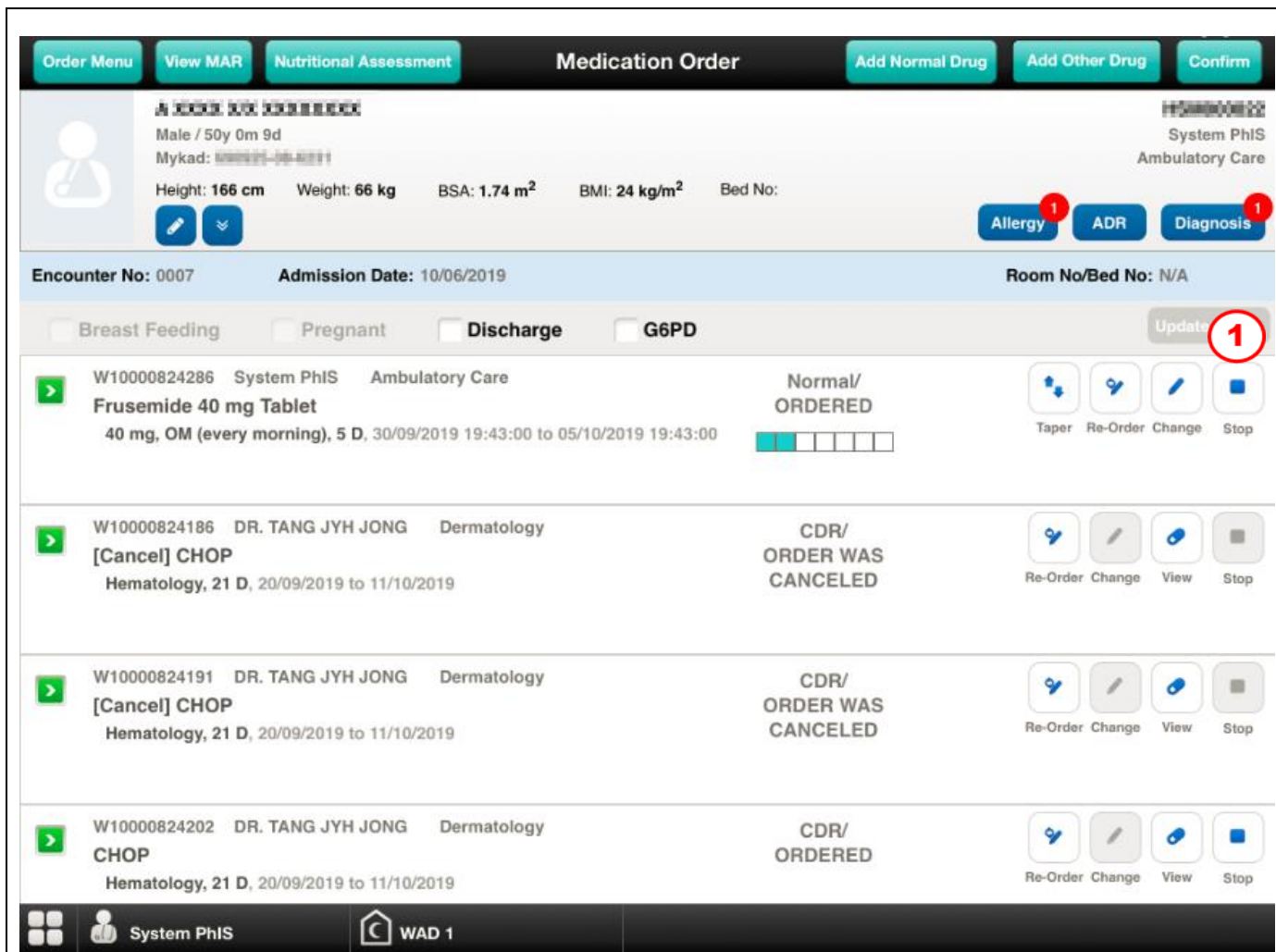
Change **Dose**, **Frequency**, and **Duration**

STEP 3

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

3.1.11 Stop

Prescriber is allowed to stop current medication.



The screenshot shows the Medication Order screen in the PhIS mobile application. At the top, there are tabs for 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Medication Order' (selected), 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. Below the tabs, patient information is displayed: 'Male / 50y 0m 9d', 'Mykad: [redacted]', 'Height: 166 cm', 'Weight: 66 kg', 'BSA: 1.74 m²', 'BMI: 24 kg/m²', and 'Bed No:'. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis', each with a red '1' indicating a notification. The 'Encounter No: 0007' and 'Admission Date: 10/06/2019' are shown. Below this, there are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD', and an 'Update' button with a red '1'. The main list shows four medication orders:

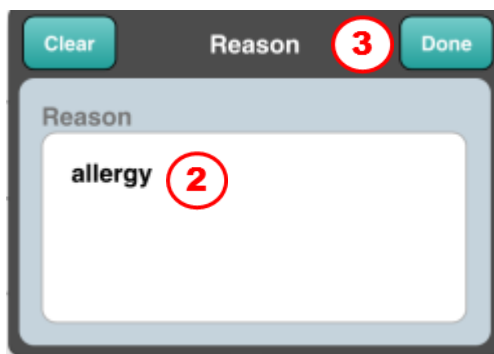
- W10000824286 System PhIS Ambulatory Care: Frusemide 40 mg Tablet, 40 mg, OM (every morning), 5 D, 30/09/2019 19:43:00 to 05/10/2019 19:43:00. Status: Normal/ORDERED. Buttons: Taper, Re-Order, Change, Stop.
- W10000824186 DR. TANG JYH JONG Dermatology: [Cancel] CHOP, Hematology, 21 D, 20/09/2019 to 11/10/2019. Status: CDR/ORDER WAS CANCELED. Buttons: Re-Order, Change, View, Stop.
- W10000824191 DR. TANG JYH JONG Dermatology: [Cancel] CHOP, Hematology, 21 D, 20/09/2019 to 11/10/2019. Status: CDR/ORDER WAS CANCELED. Buttons: Re-Order, Change, View, Stop.
- W10000824202 DR. TANG JYH JONG Dermatology: CHOP, Hematology, 21 D, 20/09/2019 to 11/10/2019. Status: CDR/ORDERED. Buttons: Re-Order, Change, View, Stop.

At the bottom, there are icons for 'System PhIS' and 'WAD 1'.

Figure 3.1-11-1 Medication Order Screen

STEP 1

Click on the  button to stop the drug



The screenshot shows the 'Reason' screen for stopping a medication. It has a title bar with 'Clear', 'Reason', and 'Done' buttons. The 'Reason' field contains the text 'allergy'. There are red circles with numbers '2' and '3' indicating the 'allergy' text and the 'Done' button respectively.

Figure 3.1-11-2 Stop Reason screen

STEP 2

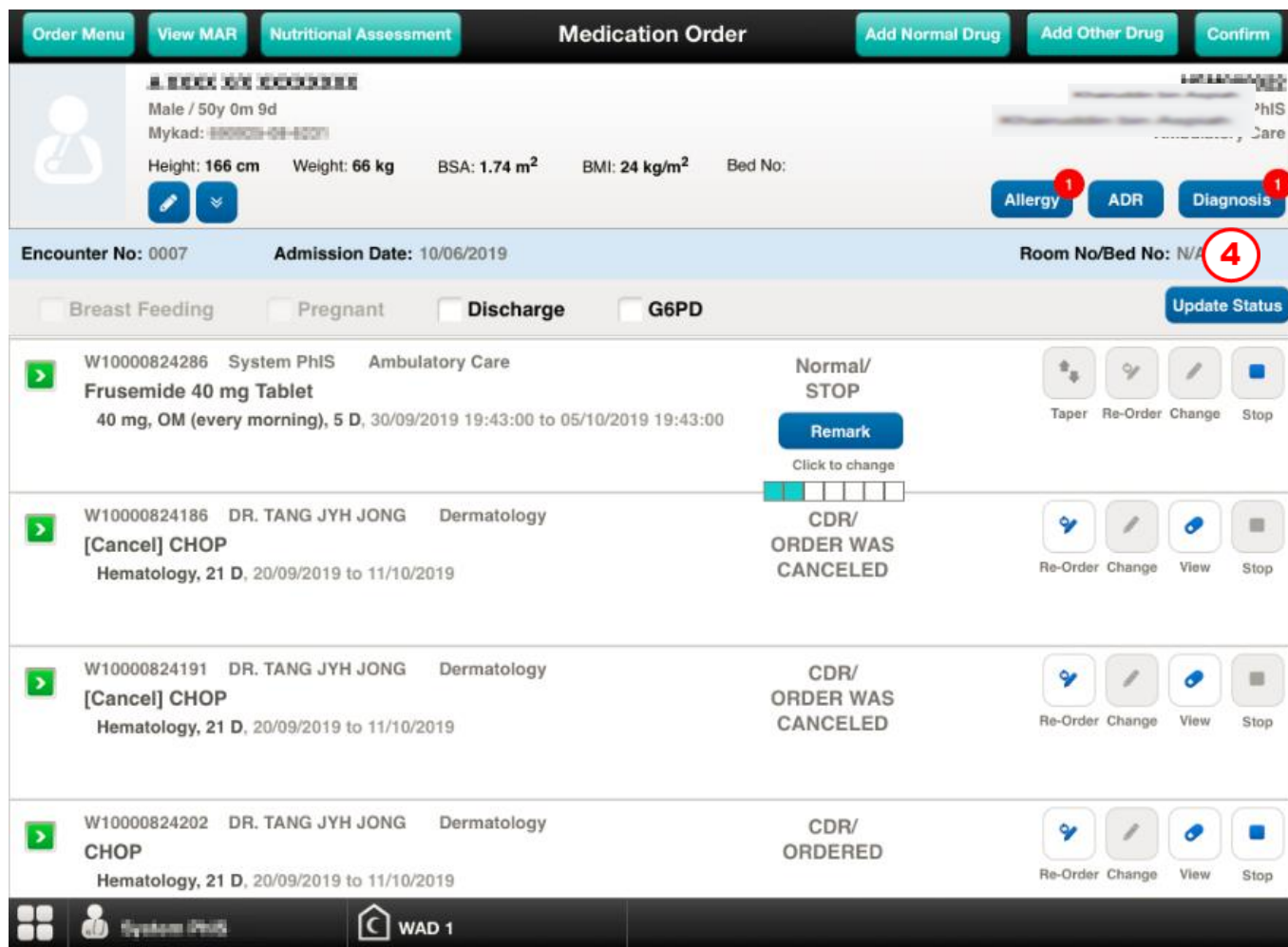
Enter reason in the displayed window as per Figure 3.1-11-2

Note

Stop Remarks is not mandatory

STEP 3

Tap on **Done** to update stop remarks.



The screenshot displays the 'Medication Order' screen. At the top, there are tabs for 'Order Menu', 'View MAR', 'Nutritional Assessment', and 'Medication Order'. Below these are buttons for 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. The patient information section shows a male patient, 50 years old, with height 166 cm, weight 66 kg, BSA 1.74 m², and BMI 24 kg/m². The encounter number is 0007, and the admission date is 10/06/2019. The room number/bed number is N/A. The 'Update Status' button is highlighted with a red circle and the number 4. Below this, there are checkboxes for 'Breast Feeding', 'Pregnant', 'Discharge', and 'G6PD'. The medication list shows four orders: 1) Frusemide 40 mg Tablet (Normal/STOP), 2) [Cancel] CHOP (CDR/ORDER WAS CANCELED), 3) [Cancel] CHOP (CDR/ORDER WAS CANCELED), and 4) CHOP (CDR/ORDERED). Each order has a 'Remark' button and a 'Click to change' link. The bottom bar shows the user's name 'System PhIS' and the ward '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.

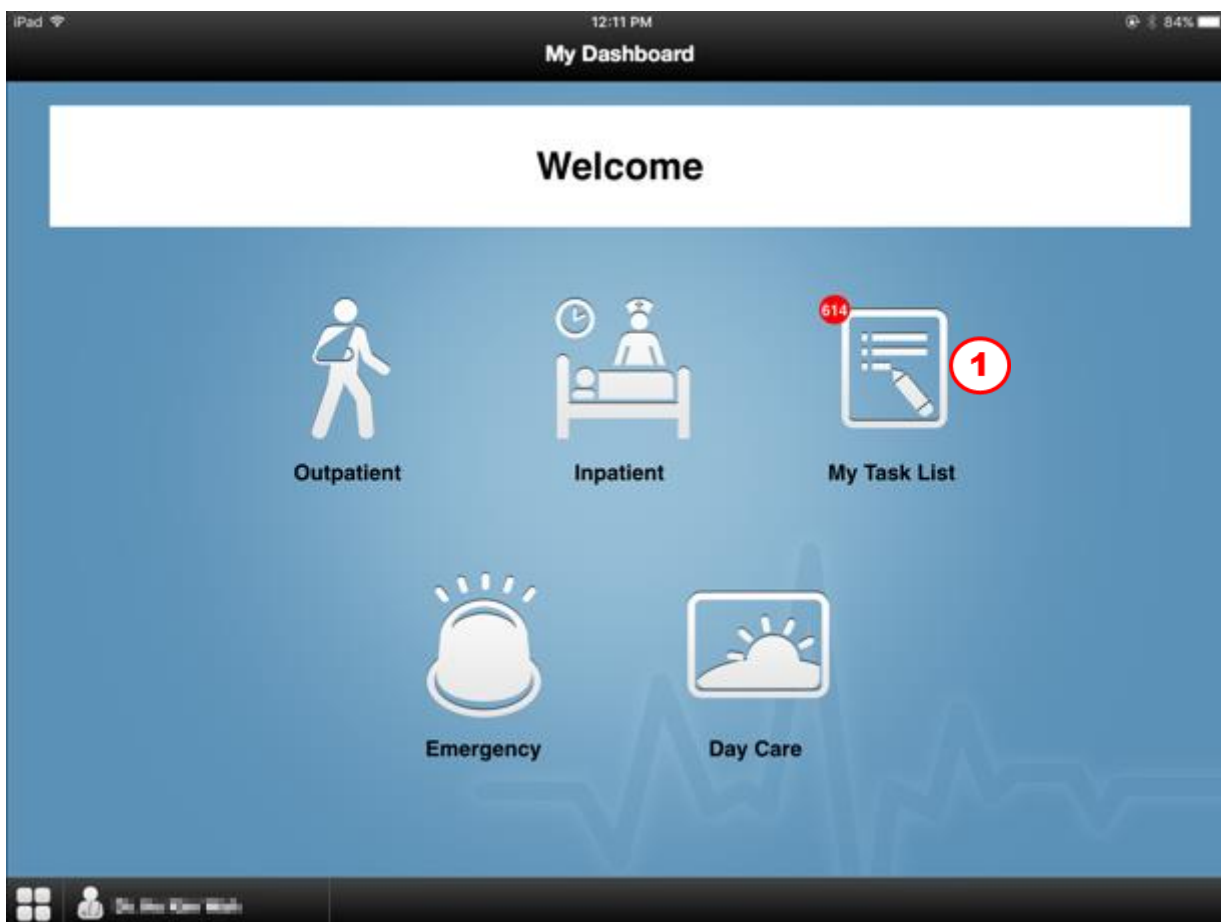


Figure 3.2-1 Home Page Listing Screen

STEP 1

Tap on **My Task List** menu

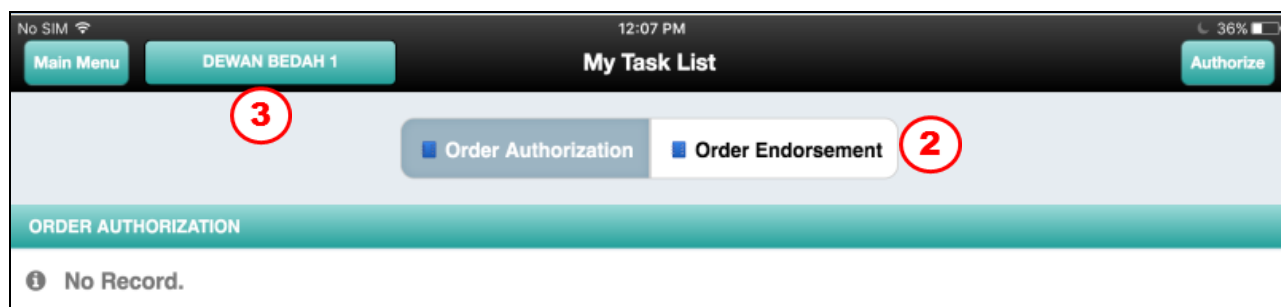


Figure 3.2-2 Endorsement Listing Screen

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	
☐ HSM000001 ZXXXXXX BIN XXXXX M / 59 yr	Methadone 5mg/ml Syrup 5 mg, OD (once daily), Oral	System PhIS	 View
☐ HSM174291 AXXXXX XXXXX XXXXXVVVVV F / 34 yr	Capecitabine 500mg Tablet 1500mg, 1025mg, BD (twice daily), Oral	DR. DING MIN TAT	 View
☒ HSM016135 XXXXXXXXX XXXXX X XXXXX XXX... M / 23 yr	Vincristine Sulphate 1mg Injection 55.68 mg, Once every 2 weeks, Intravenous Bolus	System PhIS	 View
☐ HSM025375 NXXXX XXXXX XXXXX XXXX XXX... F / 33 yr	Sodium Pertechnetate (Tc-99m) 15 Mbq	System PhIS	 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  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.

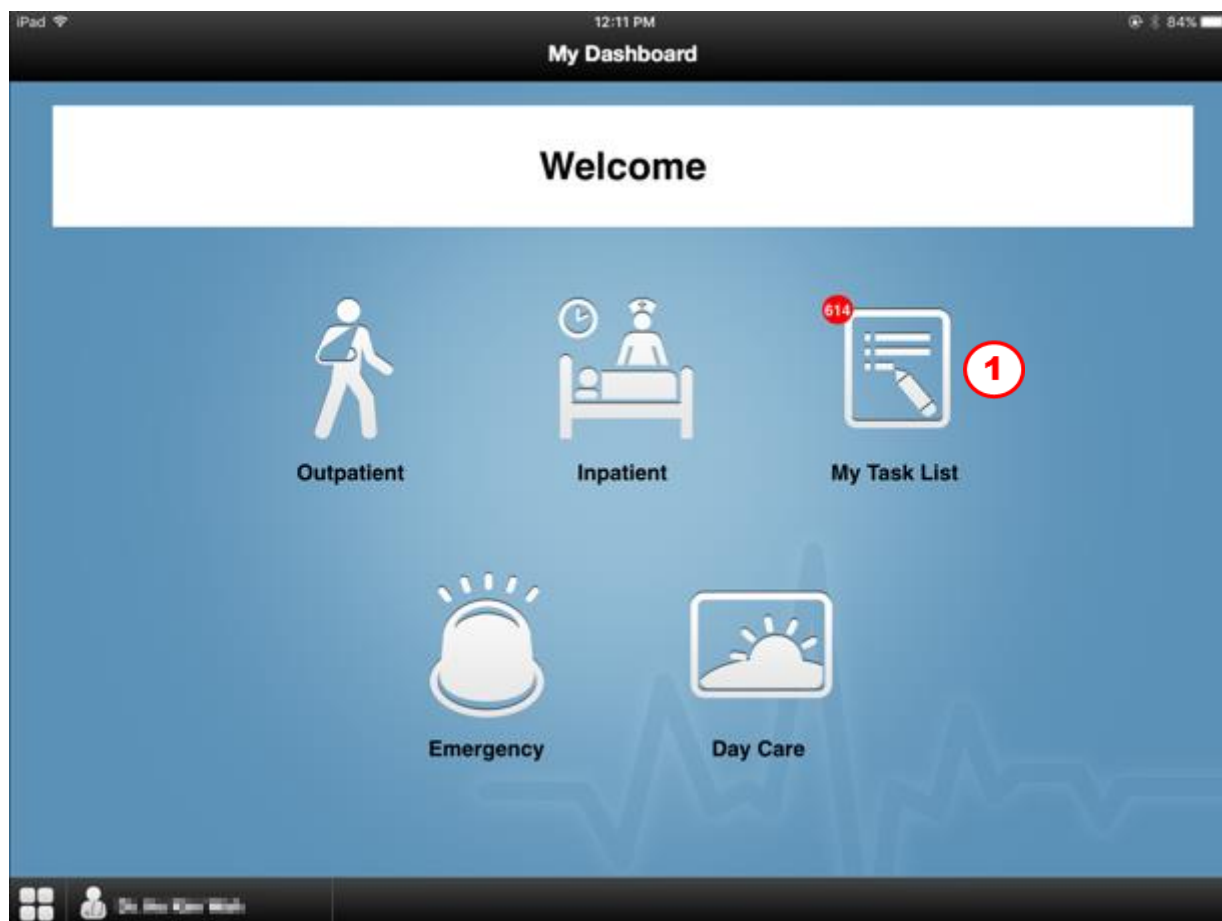


Figure 3.3-1 Listing Screen

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	
☐ HPSF00054178 Male / 63 yr	Hydroxyurea 500 mg Capsule 500 mg, OD (once daily), Oral	Normal	 View
☐ HPSF00054178 Male / 63 yr	Alprazolam 0.5 mg Tablet 0.5 mg, ON (every night), Oral	Normal	 View
☐ HPSF00054178 Male / 63 yr	Hydroxyurea 500 mg Capsule 500mg, OD (once daily), Oral	Normal	 View
☒ 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

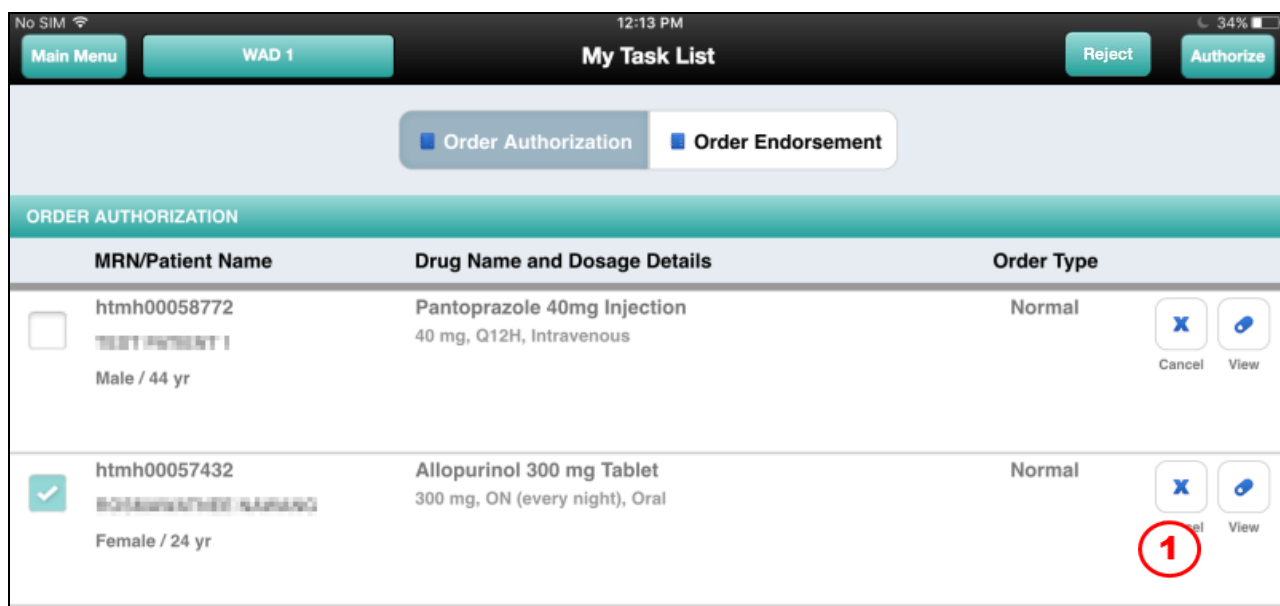
Tap on the **Authorize** button

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		

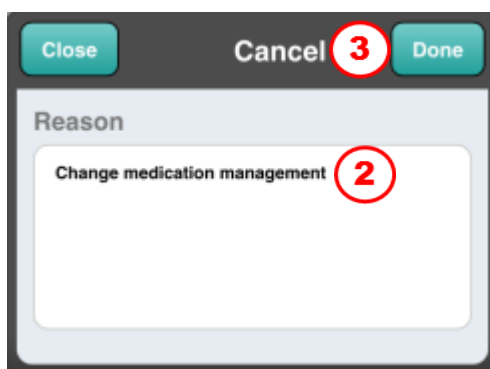
Figure 3.3-1 Order Authorisation Screen

Note

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

STEP 1

Tap on the  button to cancel the drugs



Close Cancel **3** Done

Reason

Change medication management **2**

3.4-1 Order Authorisation Screen

STEP 2

Enter cancellation remark

STEP 3

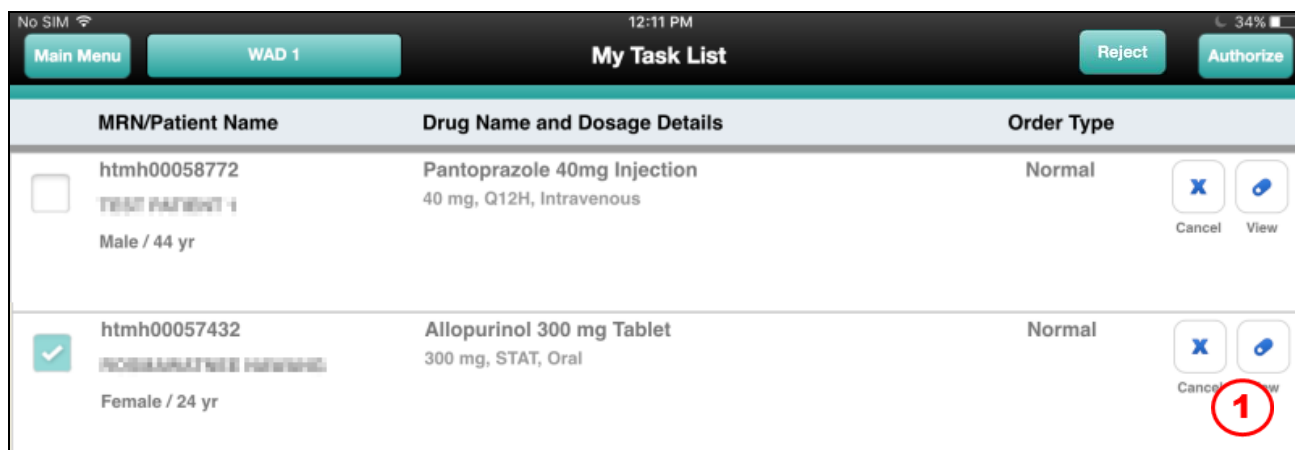
Tap on the  button to confirm the cancellation

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 1

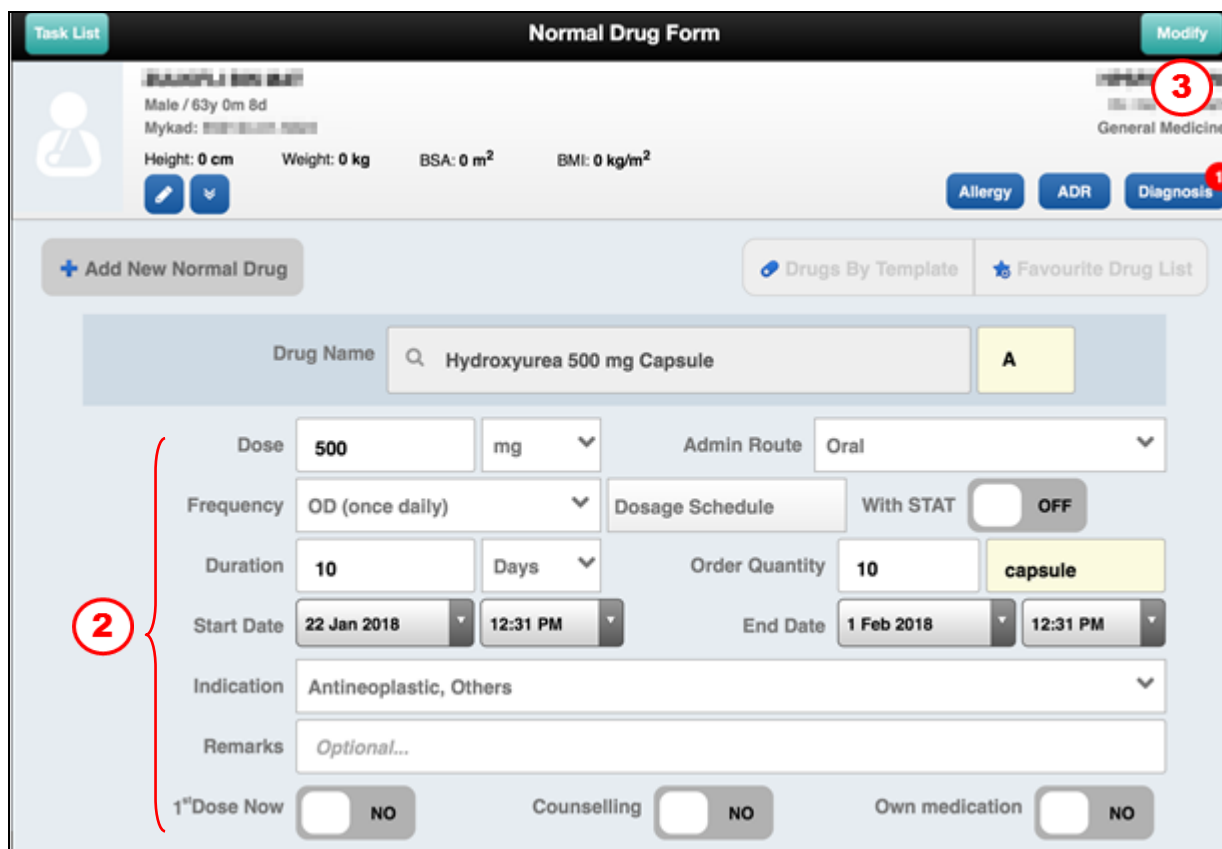
3.3.2-1 Order Authorisation Screen

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 m² BMI: 0 kg/m²

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

1st Dose Now ☐ NO Counselling ☐ NO Own medication ☐ NO

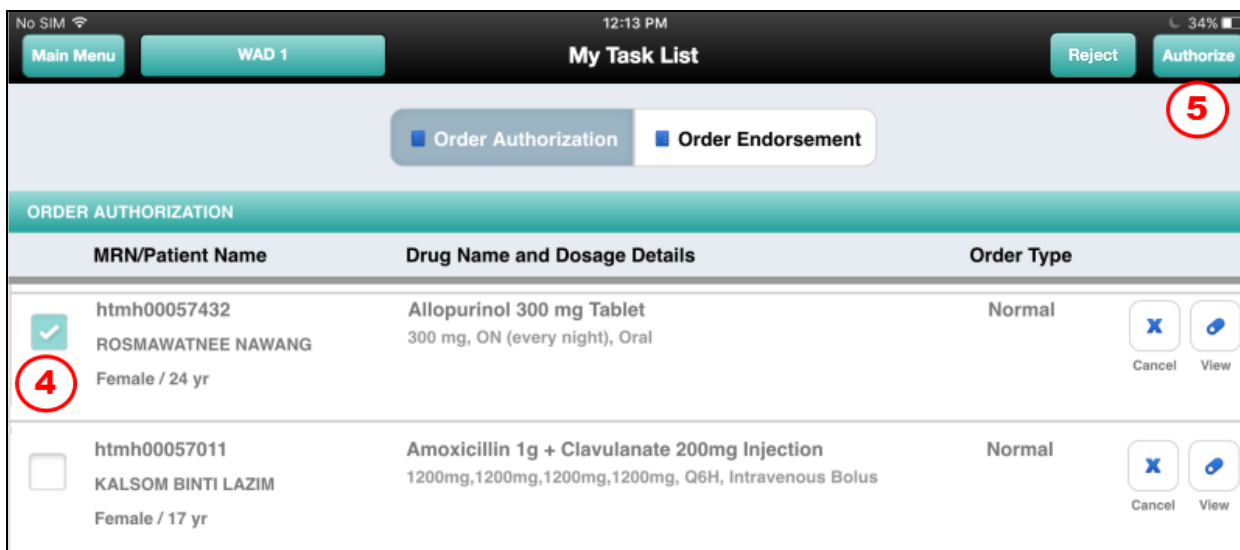
3.3.2-2 Order Authorisation Screen

STEP 2

Change details as required

STEP 3

Tap on the **Modify** button



MRN/Patient Name	Drug Name and Dosage Details	Order Type	
☒ htmh00057432 ROSMAWATNEE NAWANG Female / 24 yr	Allopurinol 300 mg Tablet 300 mg, ON (every night), Oral	Normal	X View
☐ htmh00057011 KALSOM BINTI LAZIM Female / 17 yr	Amoxicillin 1g + Clavulanate 200mg Injection 1200mg,1200mg,1200mg,1200mg, Q6H, Intravenous Bolus	Normal	X 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.

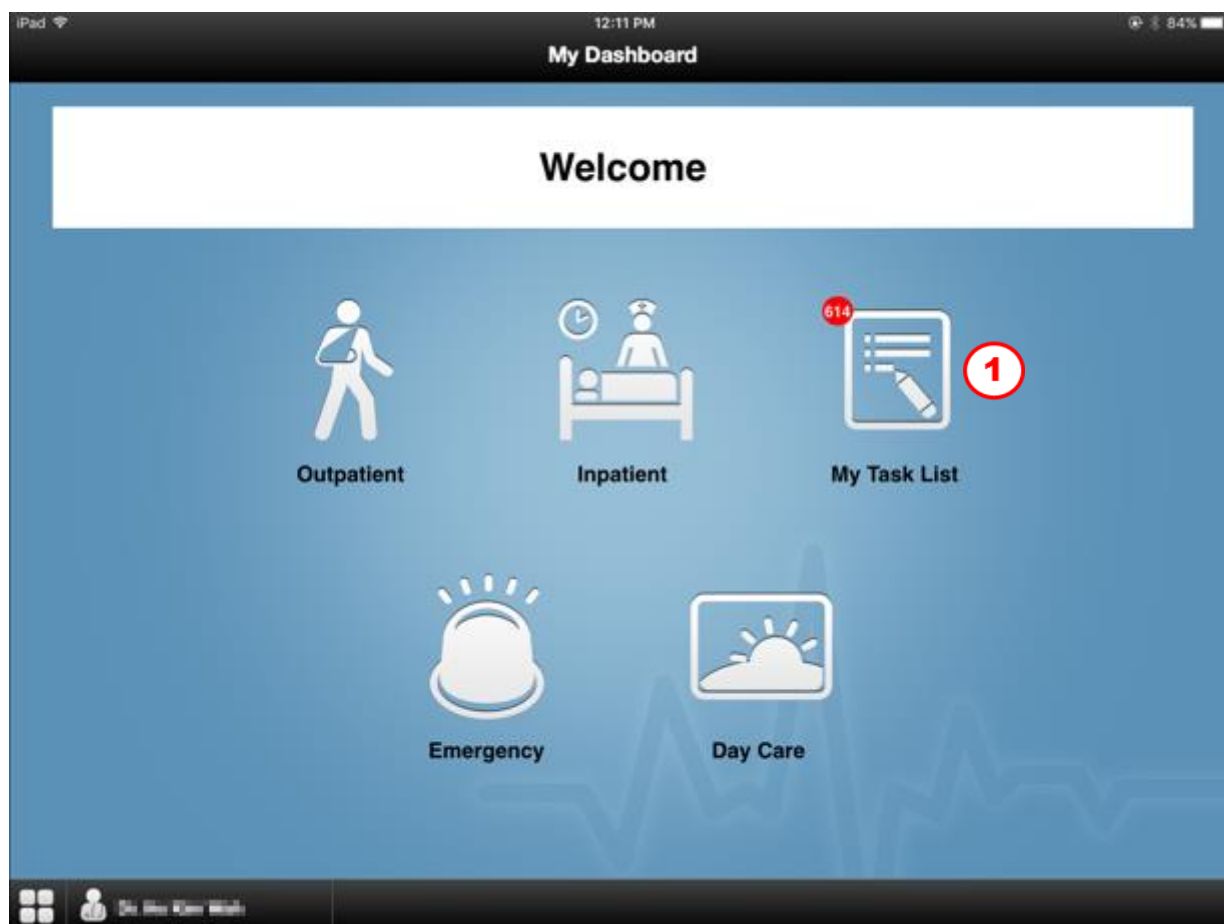
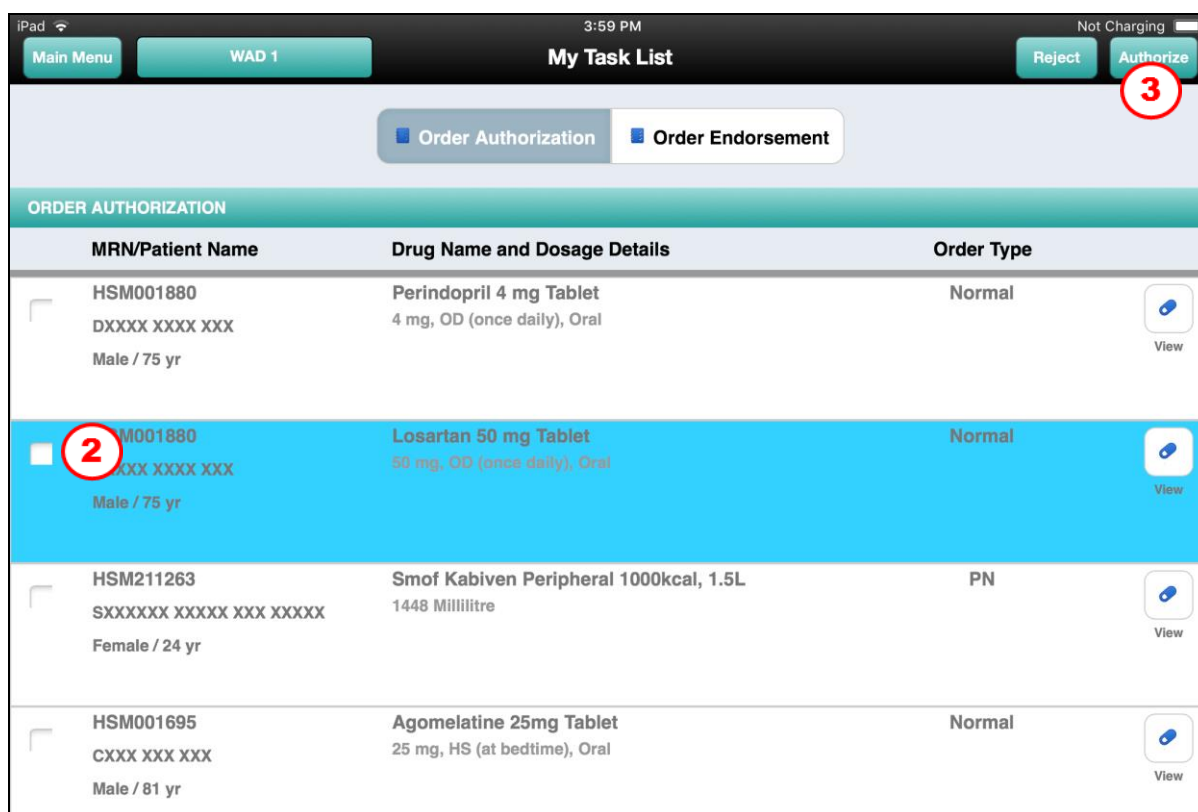


Figure 3.4-1 Listing Screen

STEP 1

Tap on the **My Task List** menu



MRN/Patient Name	Drug Name and Dosage Details	Order Type	
☐ HSM001880 DXXX XXXX XXX Male / 75 yr	Perindopril 4 mg Tablet 4 mg, OD (once daily), Oral	Normal	 View
☒ HSM001880 DXXX XXXX XXX Male / 75 yr	Losartan 50 mg Tablet 50 mg, OD (once daily), Oral	Normal	 View
☐ HSM211263 SXXXXXX XXXXX XXX XXXXX Female / 24 yr	Smof Kabiven Peripheral 1000kcal, 1.5L 1448 Millilitre	PN	 View
☐ 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

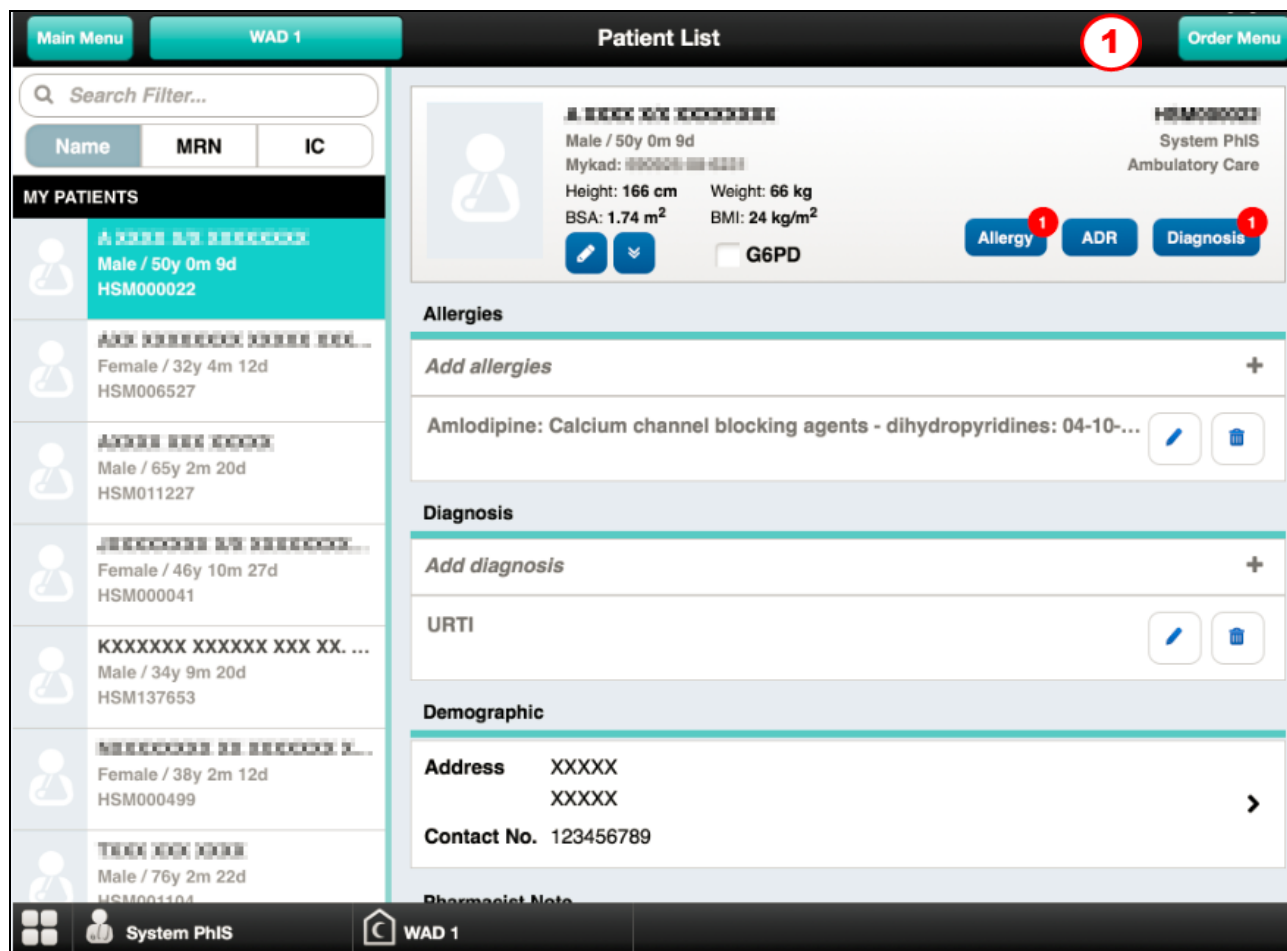
Tap on the  button

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 m² BMI: 24 kg/m²
G6PD

Allergy **ADR** **Diagnosis**

Allergies

Add allergies

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

Diagnosis

Add diagnosis

URTI

Demographic

Address XXXXX
XXXXX

Contact No. 123456789

System PhIS **WAD 1**

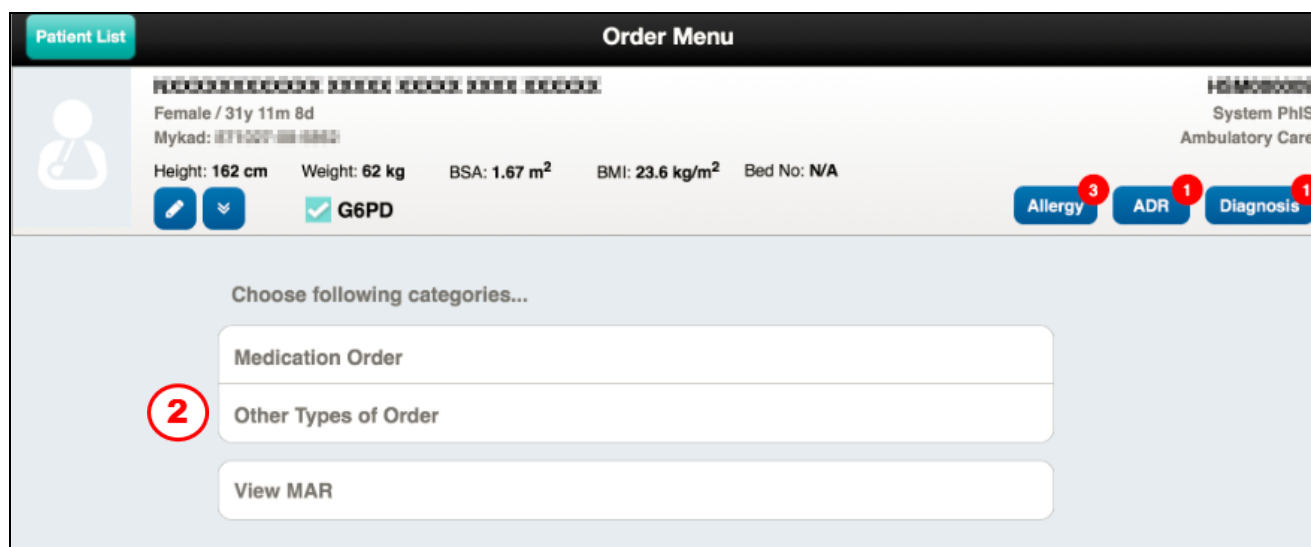
4.0-1 Patient Listing Screen

Note

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

STEP 1

Tap on the **Order Menu**

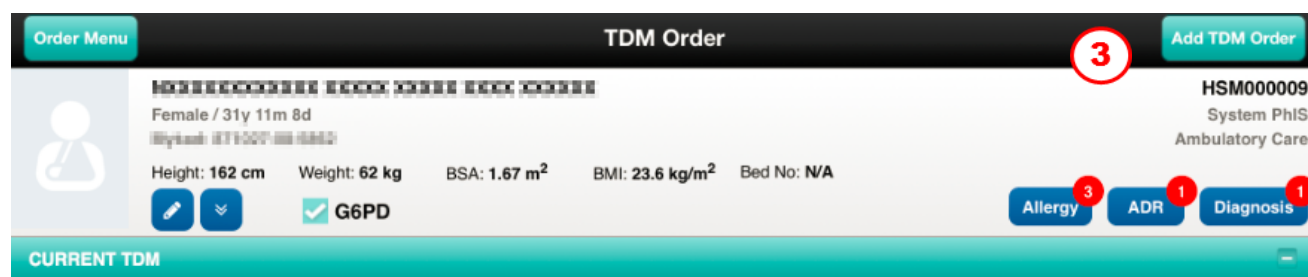


The screenshot shows the 'Order Menu' screen. At the top, there's a 'Patient List' button on the left and 'Order Menu' in the center. Below this, a patient profile is displayed: 'Female / 31y 11m 8d', 'Mykad: 871507-88-8888', 'Height: 162 cm', 'Weight: 62 kg', 'BSA: 1.67 m²', 'BMI: 23.6 kg/m²', and 'Bed 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'.

+ 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 11mo 1d)

Mykad: 871001-08-0000

Height: 162 cm

Weight: 62 kg

BSA: 1.67 m²

BMI: 23.6 kg/m²

Bed No: N/A





 G6PD

HSM000009

System PhIS

Ambulatory Care

Allergy ³

ADR ¹

Diagnosis ¹

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

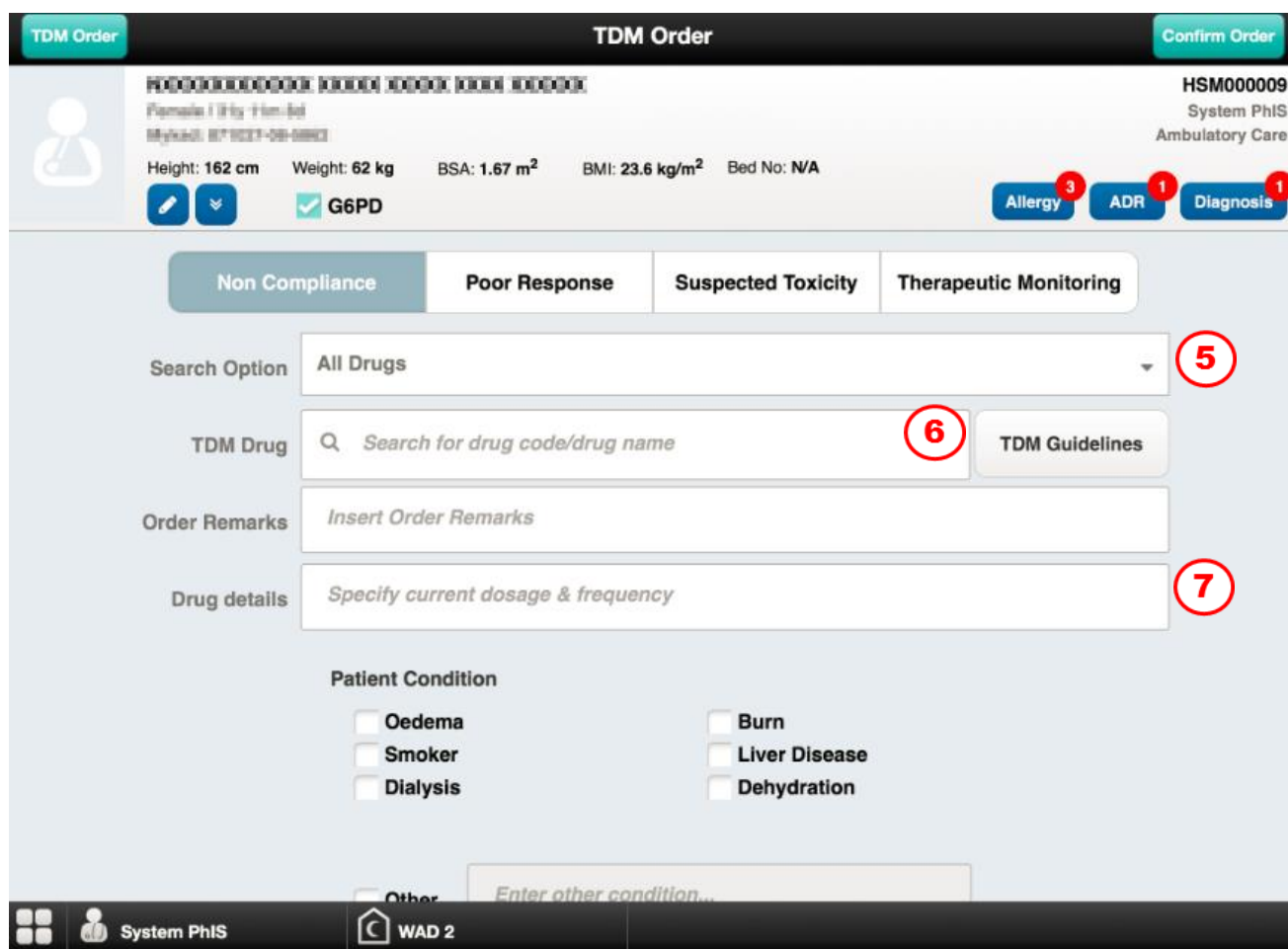
WAD 2

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 11mo)', 'MyKad: 871001-08-0000', 'Height: 162 cm', 'Weight: 62 kg', 'BSA: 1.67 m²', 'BMI: 23.6 kg/m²', 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' checkbox and a text field '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
TDM Order
Confirm Order



XXXXXXXXXX XXXX XXX XXXX
Female / 31y / 158cm
Mykad: 627627-58-8883

Height: 162 cm Weight: 62 kg BSA: 1.67 m² BMI: 23.6 kg/m² Bed No: N/A

G6PD

HSM000009
System PhIS
Ambulatory Care

Allergy
ADR
Diagnosis

Latest Lab Result

Blood Urea mmol/L

Sodium mmol/L

Potassium mmol/L

Serum Creatinine µmol/L

Creatinine Clearance ml/min

Albumin 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

4.0-7 TDM Guideline

STEP 8

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

- Blood Urea
- Sodium
- Potassium
- Serum Creatinine
- Creatinine Clearance
- Albumin

STEP 9

Select **Sampling Type** from dropdown box:

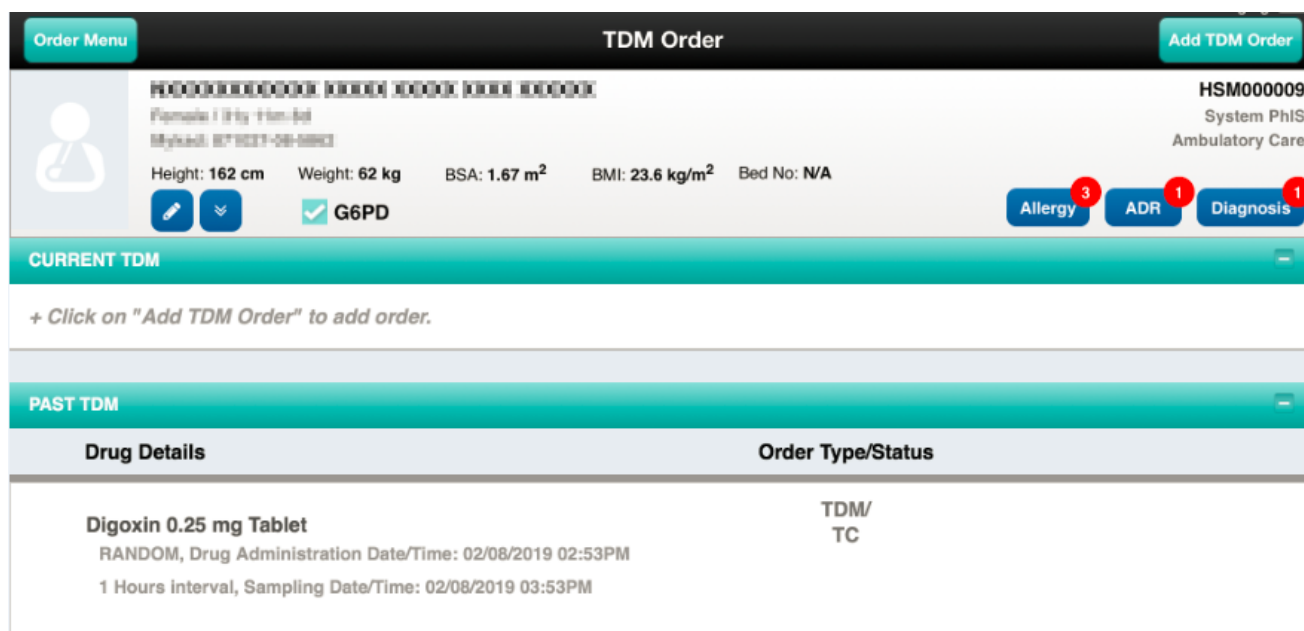
- Pre
- Post
- Random

STEP 10

Tap on the  button

STEP 11

Tap on the  to send the order to pharmacy



Drug Details	Order Type/Status
Digoxin 0.25 mg Tablet 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

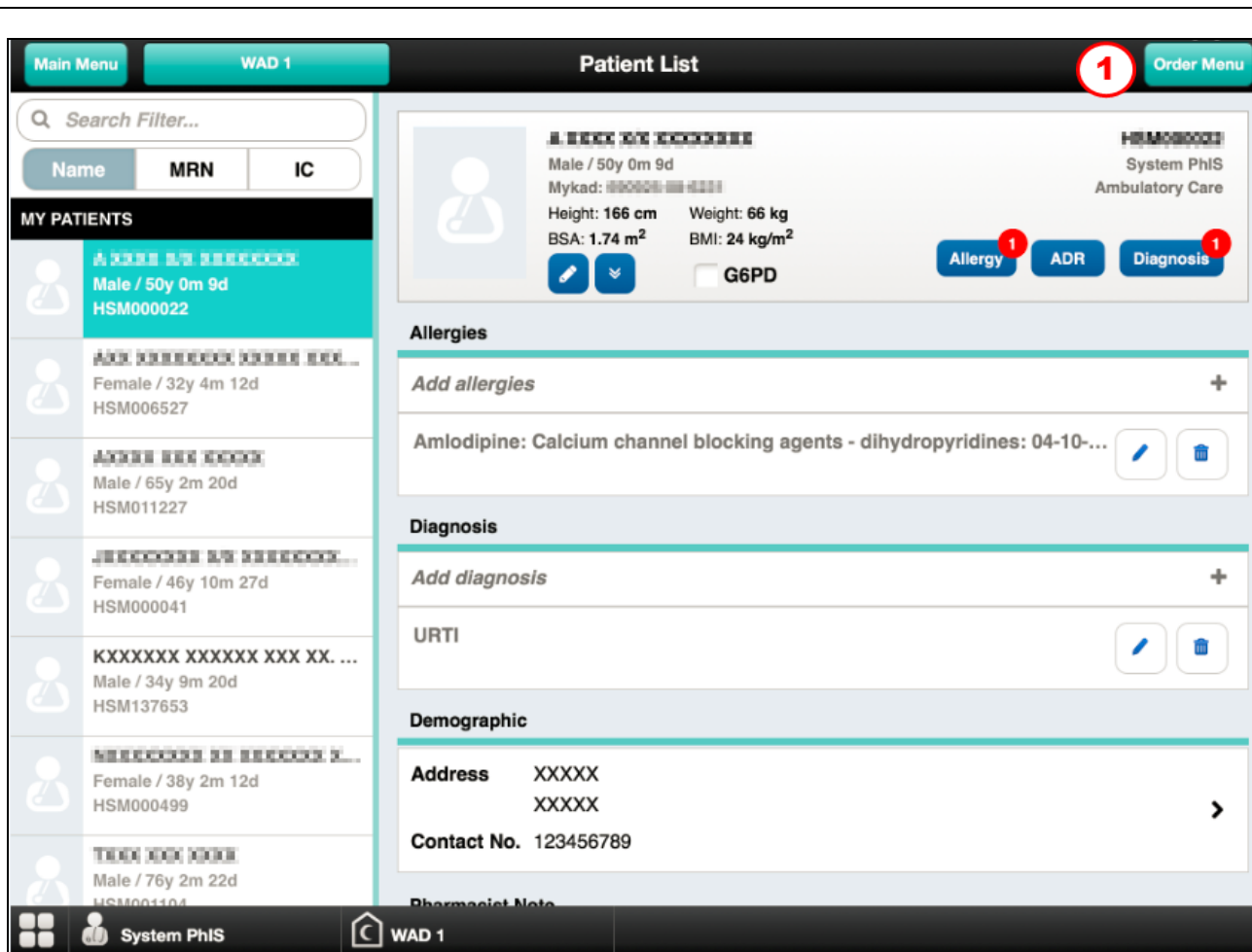
Note

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 on the left. The main area shows a list of patients on the left and detailed information for the selected patient on the right. The patient details include demographic information, allergies, diagnosis, and demographic data. The 'Allergy' section is highlighted with a red circle and the number 1. The 'Diagnosis' section is also highlighted with a red circle and the number 1. The 'Demographic' section shows the patient's address and contact number. The bottom navigation bar includes 'System PhIS', 'WAD 1', and 'Order Menu'.

Name	MRN	IC
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	

Patient Details:

- Male / 50y 0m 9d
- Mykad: [REDACTED]
- Height: 166 cm
- Weight: 66 kg
- BSA: 1.74 m²
- BMI: 24 kg/m²
- G6PD

Allergies:

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

Diagnosis:

- URTI

Demographic:

- Address: XXXXX
- Contact No. 123456789

5.0-1 Order Screen

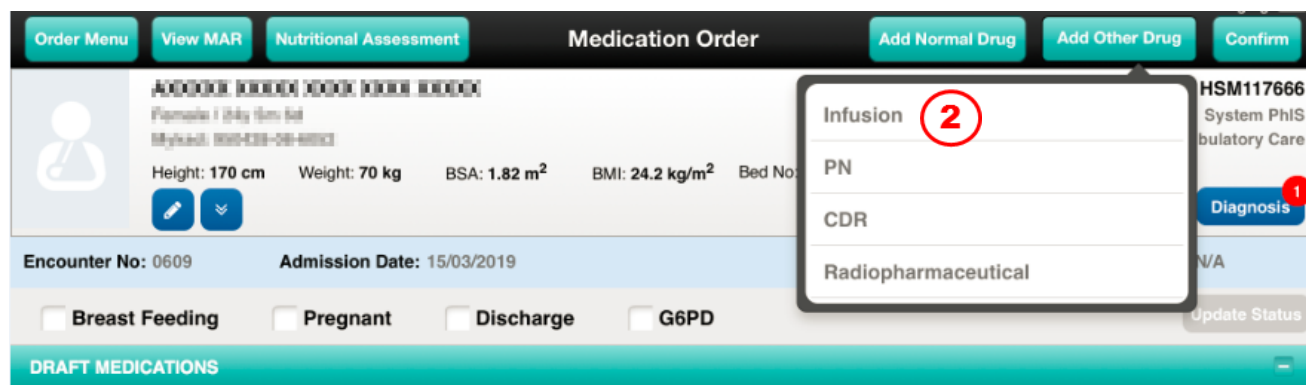
Note

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

STEP 1

Tap on the

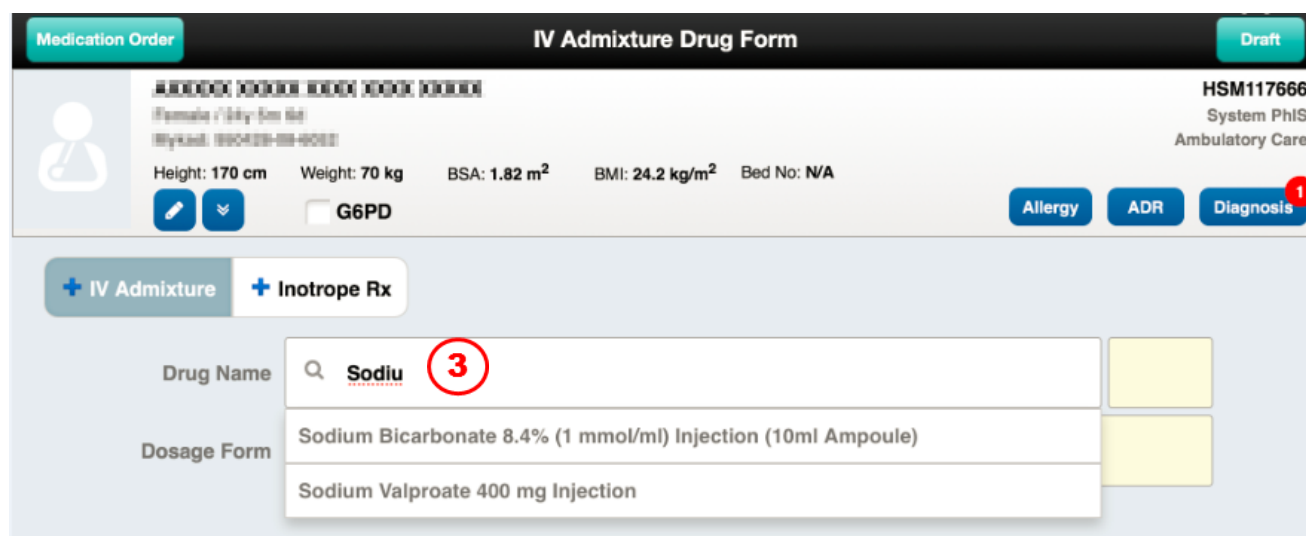




5.0-2 Order Screen

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)

Mykad: XXX-XX-XX-XXXX

Height: 170 cm

Weight: 70 kg

BSA: 1.82 m²

BMI: 24.2 kg/m²

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

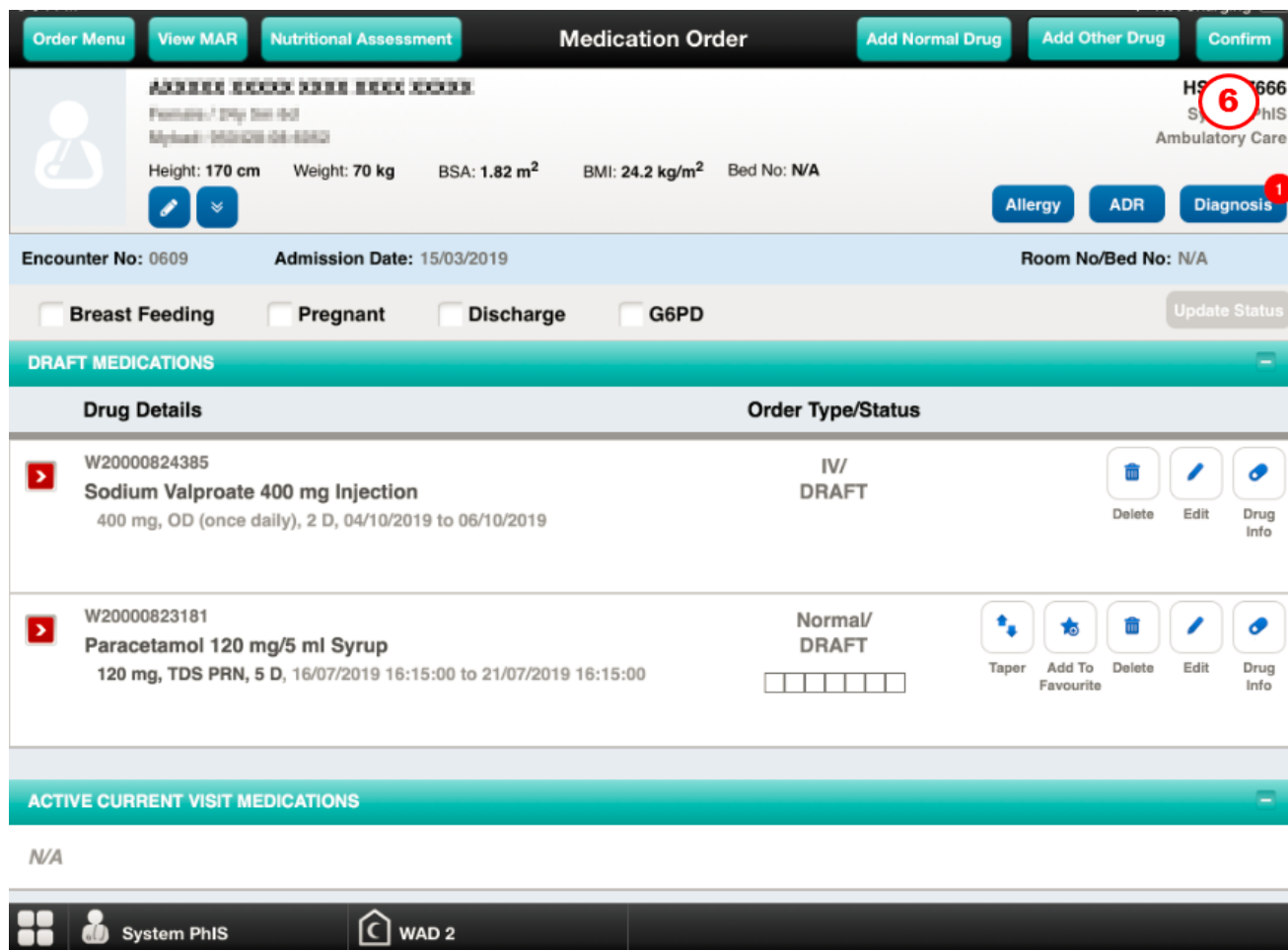
- **End Date/Time** is defaulted by the system according to duration.
- Information on **IV Admixture** screen will be automatically calculated based on the master setup.
- $\text{Infusion Rate} = \text{Fluid Volume} / \text{Infuse Over}$.
- $\text{Ordered Concentration} = \text{Dosage} / \text{Fluid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

STEP 4

Enter all the necessary information

STEP 5

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



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

Patient Information: Height: 170 cm, Weight: 70 kg, BSA: 1.82 m², BMI: 24.2 kg/m², Bed No: N/A

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	Actions
W20000824385 Sodium Valproate 400 mg Injection 400 mg, OD (once daily), 2 D, 04/10/2019 to 06/10/2019	IV/ DRAFT	Delete Edit Drug Info
W20000823181 Paracetamol 120 mg/5 ml Syrup 120 mg, TDS PRN, 5 D, 16/07/2019 16:15:00 to 21/07/2019 16:15:00	Normal/ DRAFT	Taper Add To Favourite Delete Edit Drug Info

ACTIVE CURRENT VISIT MEDICATIONS

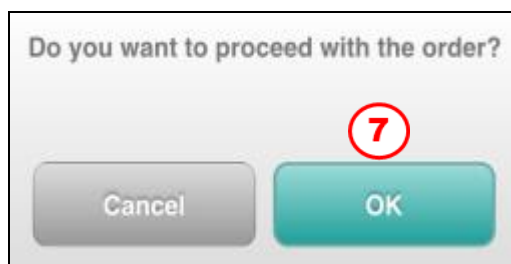
N/A

System PhIS **WAD 2**

5.0-5 IV Admixture Order Screen

STEP 6

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



Do you want to proceed with the order?

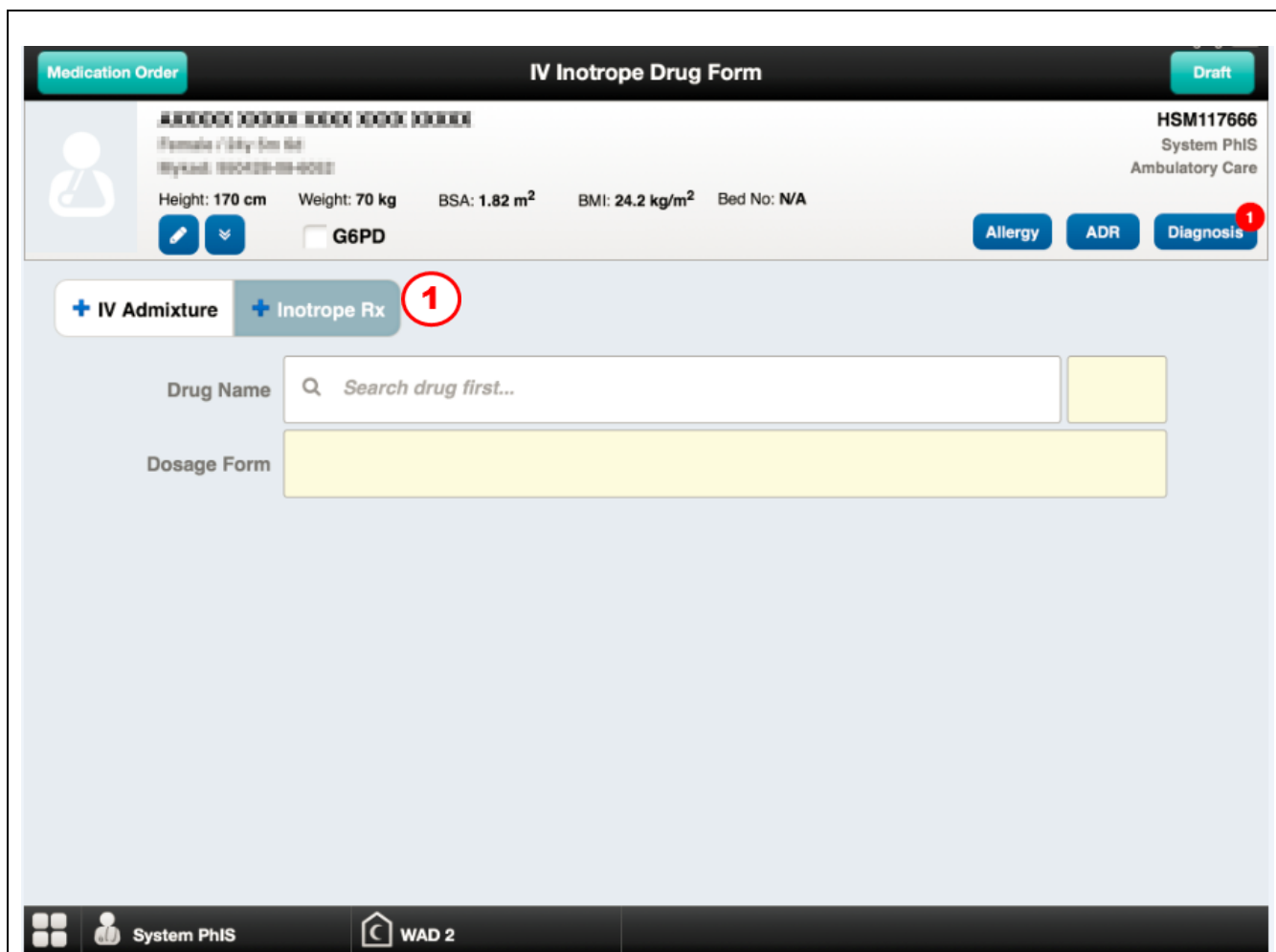
Cancel **OK**

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**

Patient Information:
 [Icon] [Barcode] [Barcode]
 (Female) / 181cm / 68kg
 MyKad: 8804020-88-88000

Vital Signs:
 Height: 170 cm Weight: 70 kg BSA: 1.82 m² BMI: 24.2 kg/m² Bed No: N/A

Buttons: [Edit] [Dropdown] [G6PD] [Allergy] [ADR] [Diagnosis] ¹

Tabs: + IV Admixture + Inotrope Rx ¹

Drug Name: [Search drug first...]

Dosage Form: []

Footer: System PhIS WAD 2

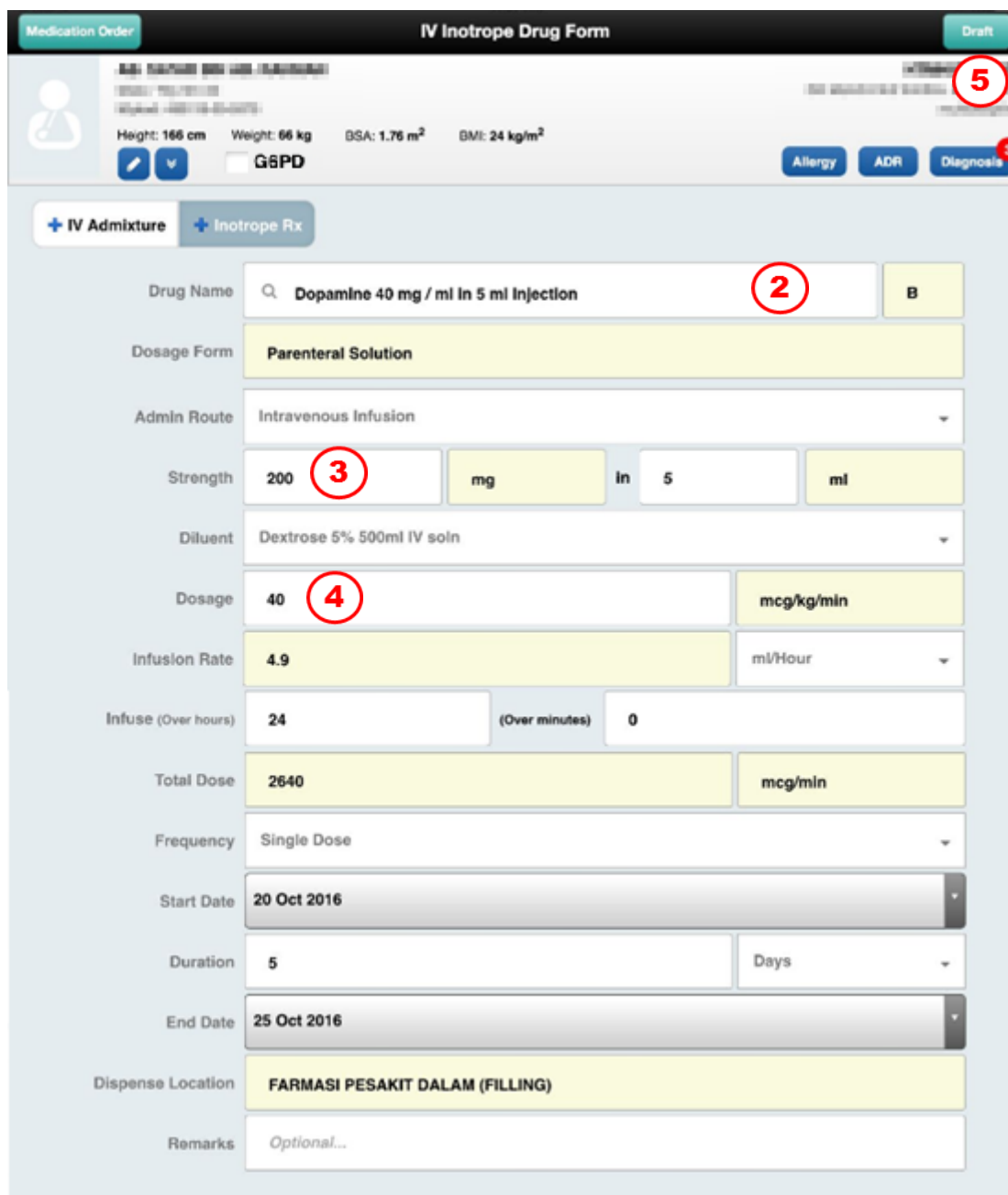
5.2-1 IV Admixture Order Screen

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's a 'Medication Order' header and a 'Draft' button. Below this, patient information is displayed: Height: 166 cm, Weight: 66 kg, BSA: 1.76 m², BMI: 24 kg/m², and a 'G6PD' status. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis'. 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).
- Dosage Form:** 'Parenteral Solution'.
- Admin Route:** 'Intravenous Infusion'.
- Strength:** '200' (Callout 3), 'mg', 'in', '5', 'ml'.
- Diluent:** 'Dextrose 5% 500ml IV soln'.
- Dosage:** '40' (Callout 4), 'mcg/kg/min'.
- Infusion Rate:** '4.9', 'ml/Hour'.
- Infuse (Over hours):** '24', '(Over minutes):' '0'.
- Total Dose:** '2640', 'mcg/min'.
- Frequency:** 'Single Dose'.
- Start Date:** '20 Oct 2016'.
- Duration:** '5', 'Days'.
- End Date:** '25 Oct 2016'.
- Dispense Location:** 'FARMASI PESAKIT DALAM (FILLING)'.
- Remarks:** 'Optional...'.

Callout 5 points to the 'Draft' button at the top right.

5.2-2 IV Admixture Order Screen

STEP 2

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

STEP 3

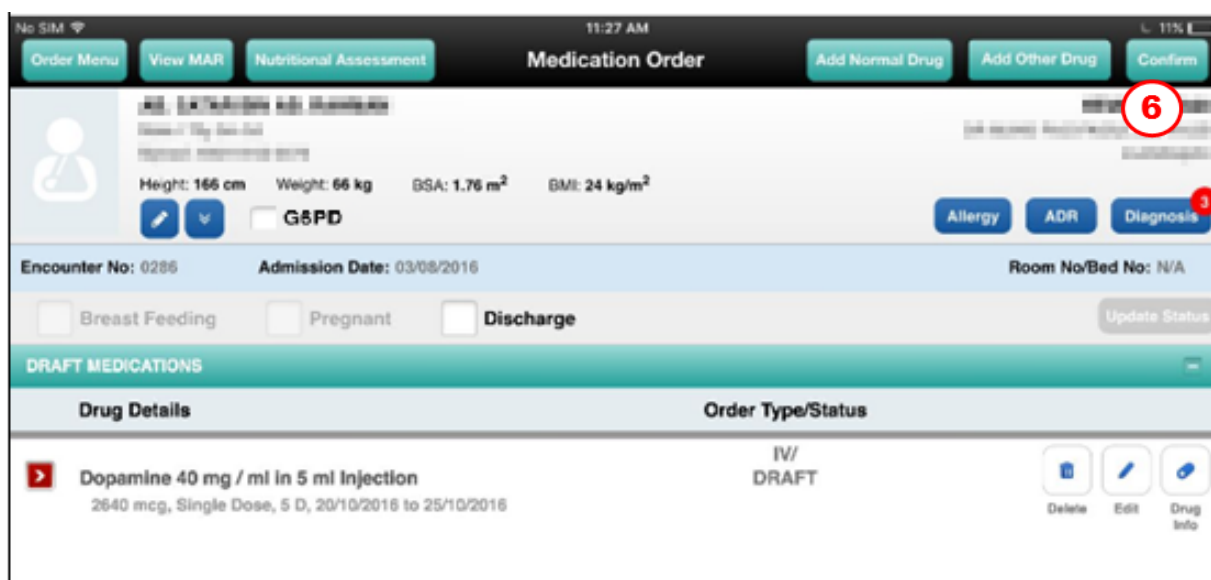
Decide the strength of preparation e.g. 200mg in 50ml

STEP 4

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

STEP 5

Tap on the  button to save the prescription

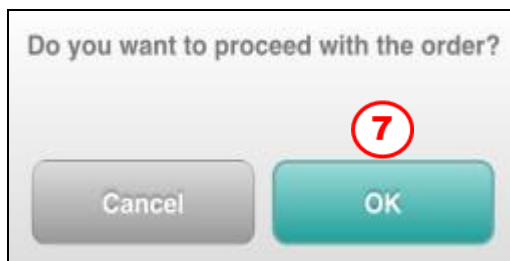


The screenshot shows the 'Medication Order' screen. At the top, there are buttons for 'Order Menu', 'View MAR', 'Nutritional Assessment', 'Add Normal Drug', 'Add Other Drug', and 'Confirm'. The 'Confirm' button is circled in red with the number 6. Below these are patient details: 'Height: 165 cm', 'Weight: 66 kg', 'BSA: 1.76 m²', and 'BMI: 24 kg/m²'. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis' (the last one is circled in red with the number 3). Below the patient details are fields for 'Encounter No: 0286', 'Admission Date: 03/08/2016', and 'Room No/Bed No: N/A'. There are checkboxes for 'Breast Feeding', 'Pregnant', and 'Discharge', and an 'Update Status' button. The main section is titled 'DRAFT MEDICATIONS' and contains a table with two columns: 'Drug Details' and 'Order Type/Status'. The table has one row for 'Dopamine 40 mg / ml in 5 ml Injection' with a status of 'IV/ DRAFT'. To the right of the table are buttons for 'Delete', 'Edit', and 'Drug Info'. The 'Edit' button is circled in red with the number 7.

5.2-3 IV Admixture Order Screen

STEP 6

Tap on the  button to add the prescription



The screenshot shows a confirmation dialog box with the text 'Do you want to proceed with the order?'. At the bottom, there are two buttons: 'Cancel' and 'OK'. The 'OK' button is circled in red with the number 7.

5.2-4 IV Admixture Order Screen

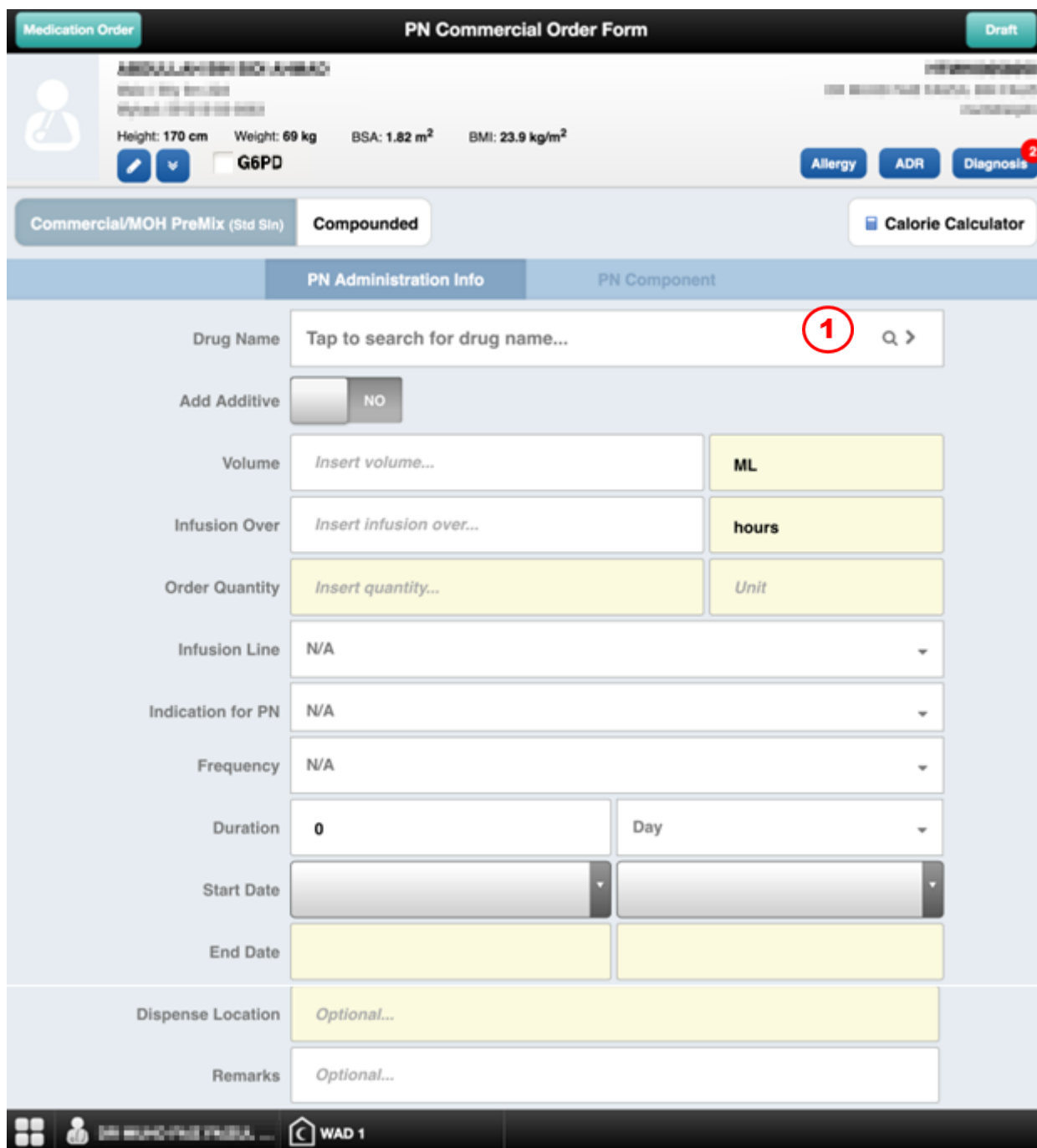
STEP 7

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.



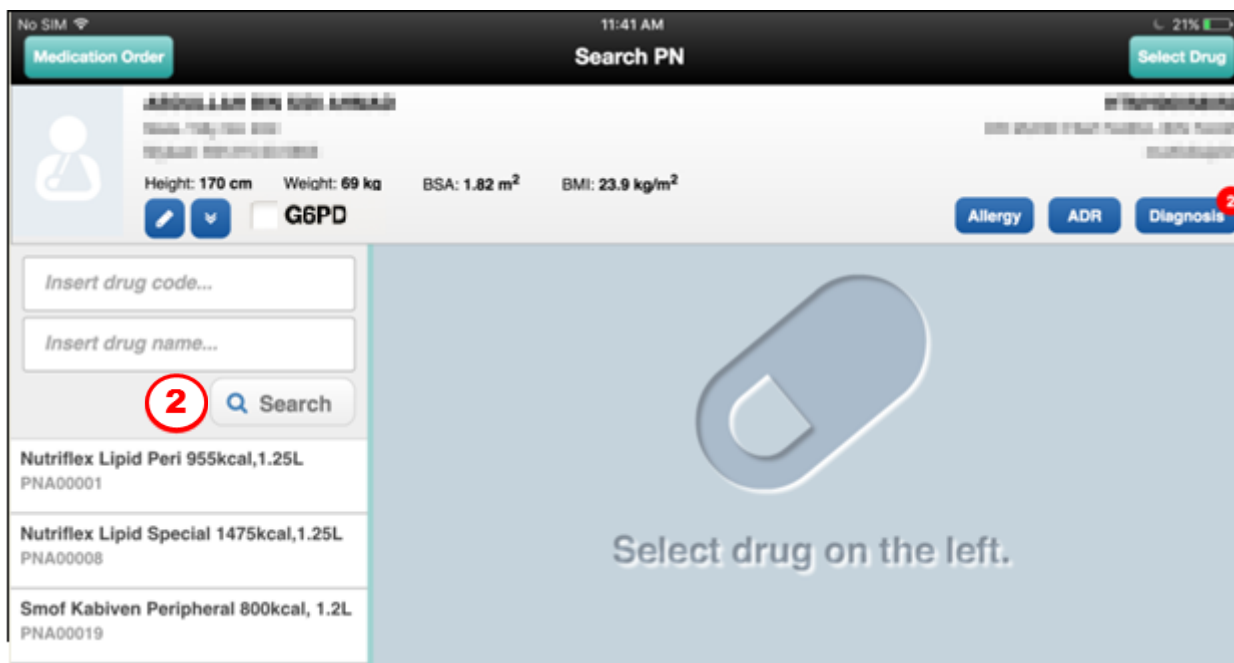
6.1-1 PN Order Screen

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 / 24y 0m 0d
MyKad: 990404-04-0000

Height: 170 cm Weight: 70 kg BSA: 1.82 m² BMI: 24.2 kg/m² Bed No: N/A

☐ G6PD

HEALTHTEAM

System Full
Ambulatory Care

Allergy ADR **Diagnosis** 1

nutri

Search

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 m² BMI: 24.2 kg/m² Bed No: N/A

☐ G6PD

Allergy

ADR

Diagnosis ¹

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...

4

5

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.

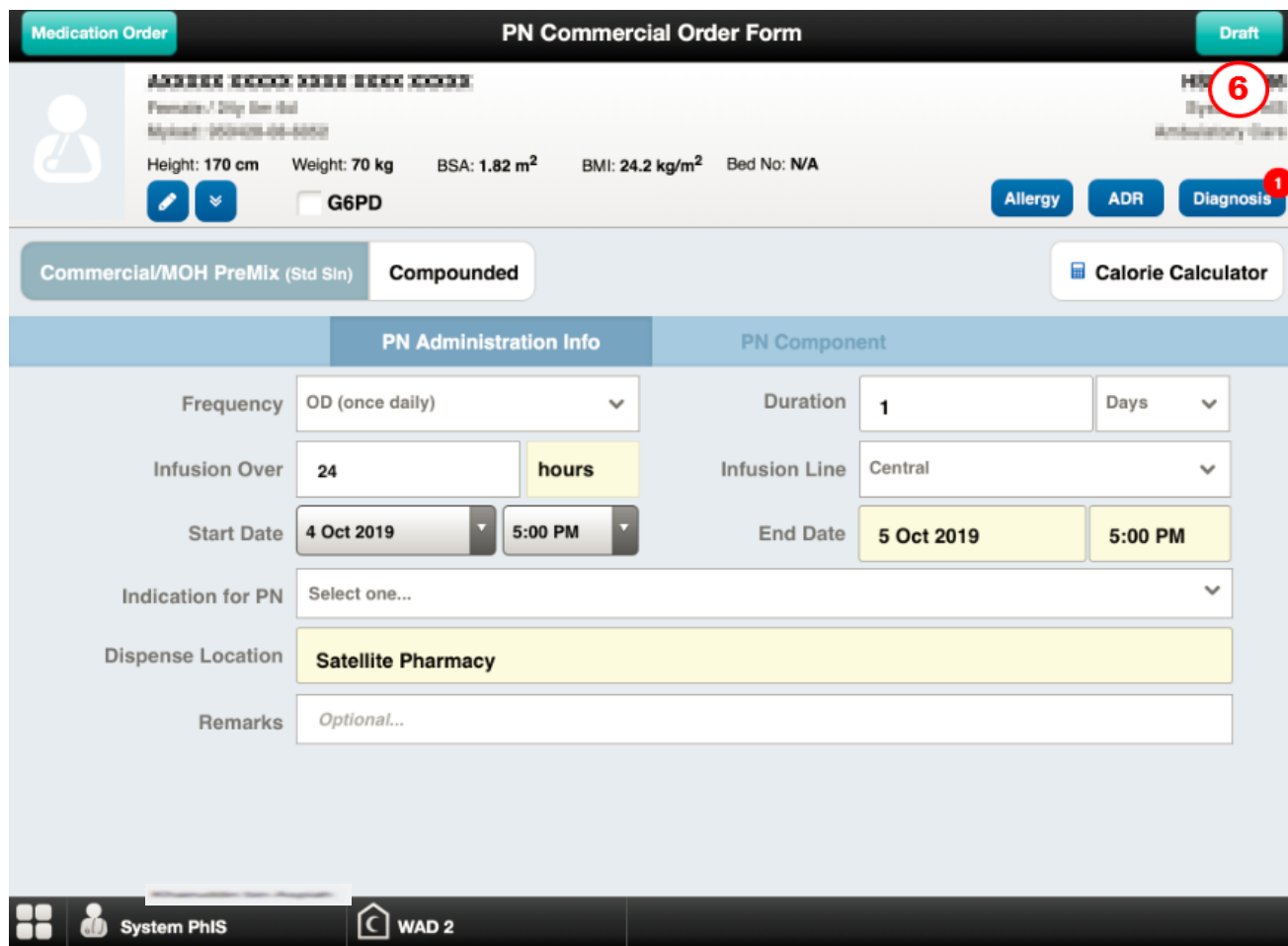
STEP 4

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**

Patient Information:
 Name: [Redacted] **6**
 Height: 170 cm Weight: 70 kg BSA: 1.82 m² BMI: 24.2 kg/m² Bed No: N/A
 G6PD **1** Allergy ADR Diagnosis

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

PN Administration Info **PN Component**

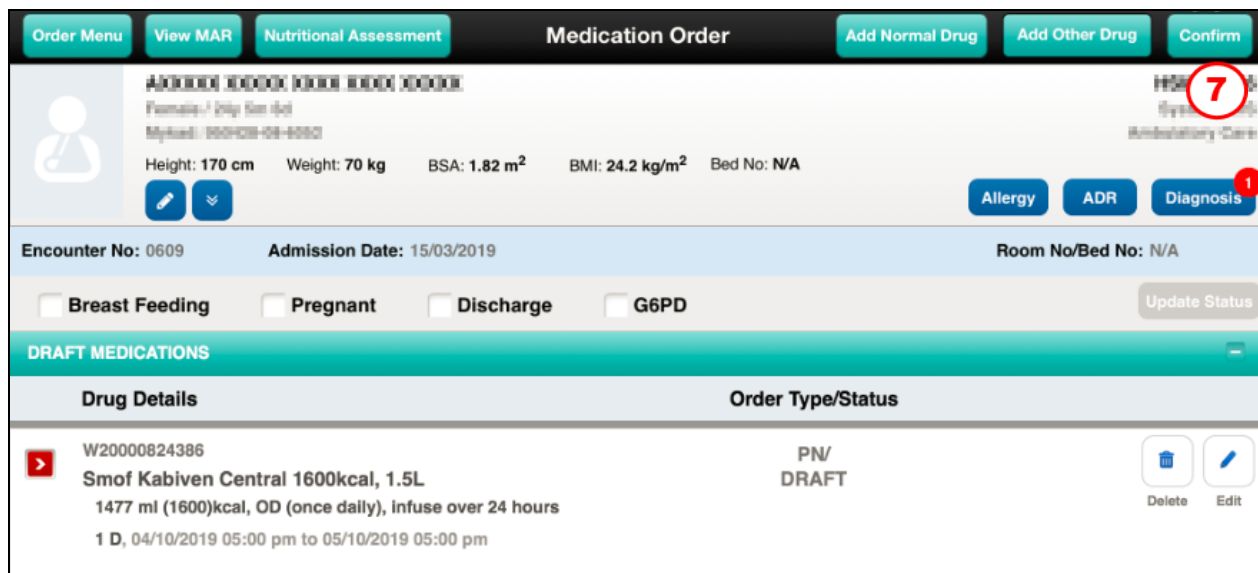
Frequency: OD (once daily) Duration: 1 Days
 Infusion Over: 24 hours Infusion Line: Central
 Start Date: 4 Oct 2019 5:00 PM End Date: 5 Oct 2019 5:00 PM
 Indication for PN: Select one...
 Dispense Location: Satellite Pharmacy
 Remarks: Optional...

System PhIS **WAD 2**

6.1-5 PN Order Screen

STEP 6

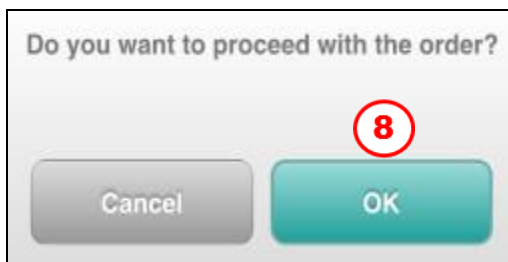
Tap on the **Draft** button to save the prescription



6.1-6 PN Order Screen

STEP 7

Tap on the  button to add the prescription



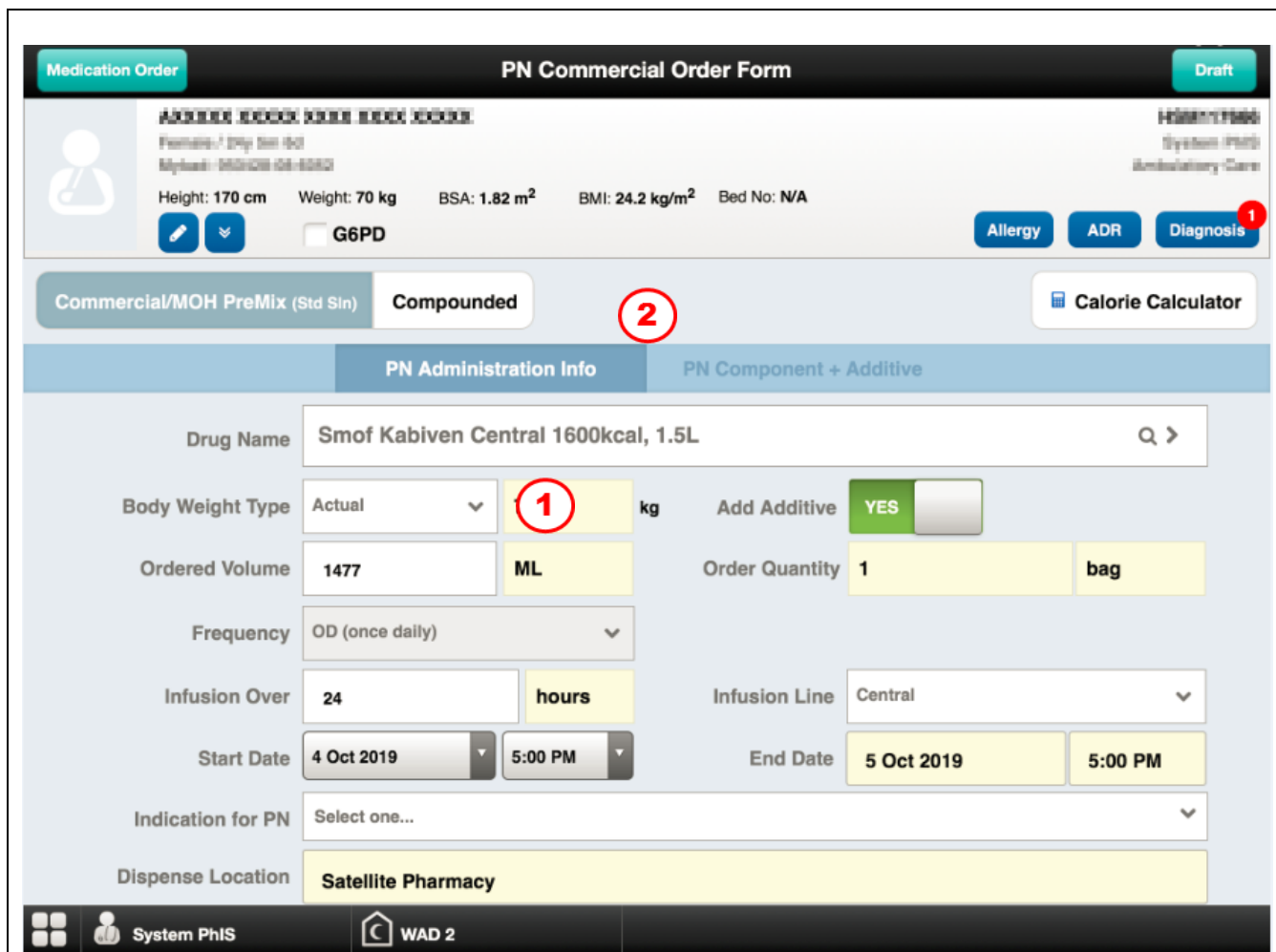
6.1-7 PN Alert Order Screen

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 Additive** tab

Medication Order

PN Commercial Order Form

Draft



Height: 170 cm

Weight: 69 kg

BSA: 1.82 m²

BMI: 23.9 kg/m²

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 ⁺	40 mmol	30(30)	mmol
Potassium(Kalium), K ⁺		23(23)	mmol
Calcium, Ca ²⁺	30 mmol	1.9(1.90)	mmol
Magnesium, Mg ⁺		3.8(3.80)	mmol
Phosphate, (PO ₄) ²⁻		9.9(9.90)	mmol
Acetate, CH ₃ 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		0 ml
Fat Soluble	0 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.

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

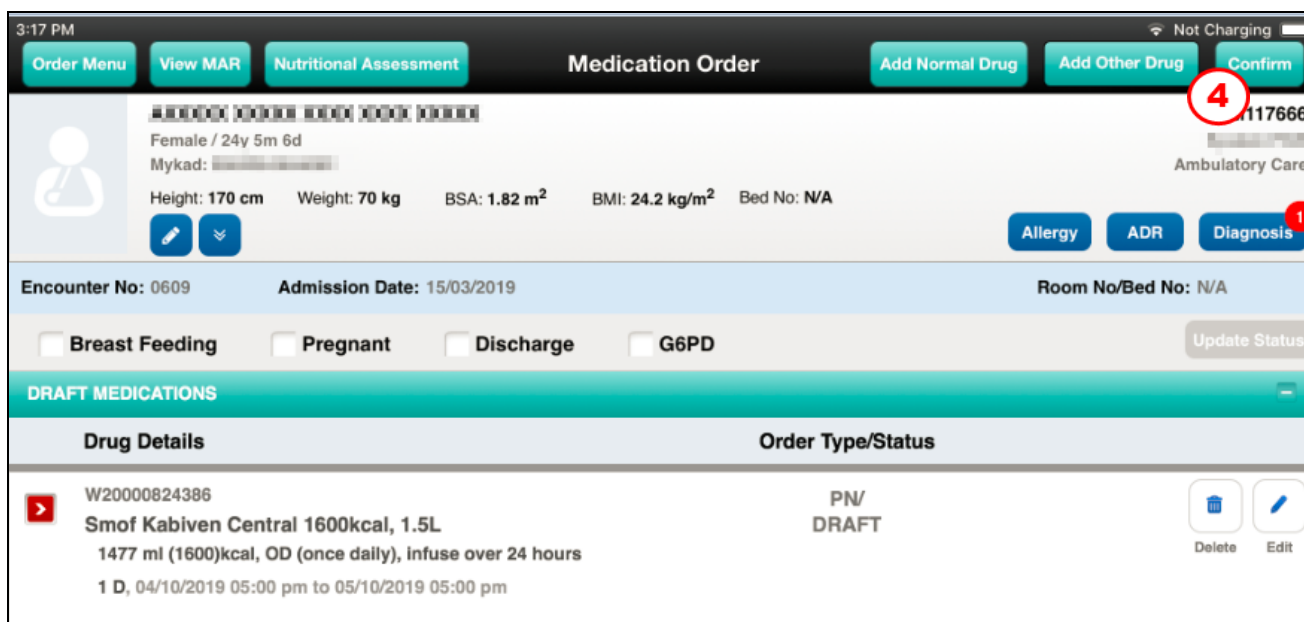
6.2-3 Single Vitamin Screen

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

6.2-4 Multi Vitamin Screen

STEP 3

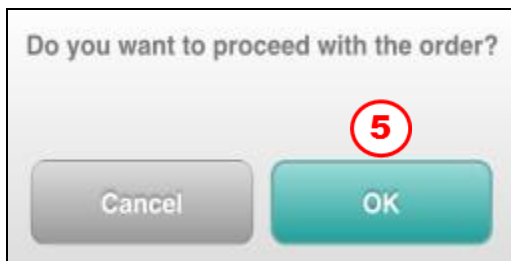
Tap on the **Draft** button to save the prescription



6.2-6 Order Screen

STEP 4

Tap on the  button to add the prescription



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 m²

BMI: 24 kg/m²

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⁺

mmol/kg

1-2

mmol/kg

0

mmol

Potassium(Kalium), K⁺

mmol/kg

0.7-1.5

mmol/kg

0

mmol

Calcium, Ca²⁺

mmol/kg

0.1-0.15

mmol/kg

0

mmol

Magnesium, Mg⁺

mmol/kg

0.05-0.15

mmol/kg

0

mmol

Phosphate, (PO₄)²⁻

mmol/kg

0.7-1.5

mmol/kg

0

mmol

Chloride, Cl⁻

mmol/kg

1.3-2

mmol/kg

0

mmol

Acetate, (CH₃COO)

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

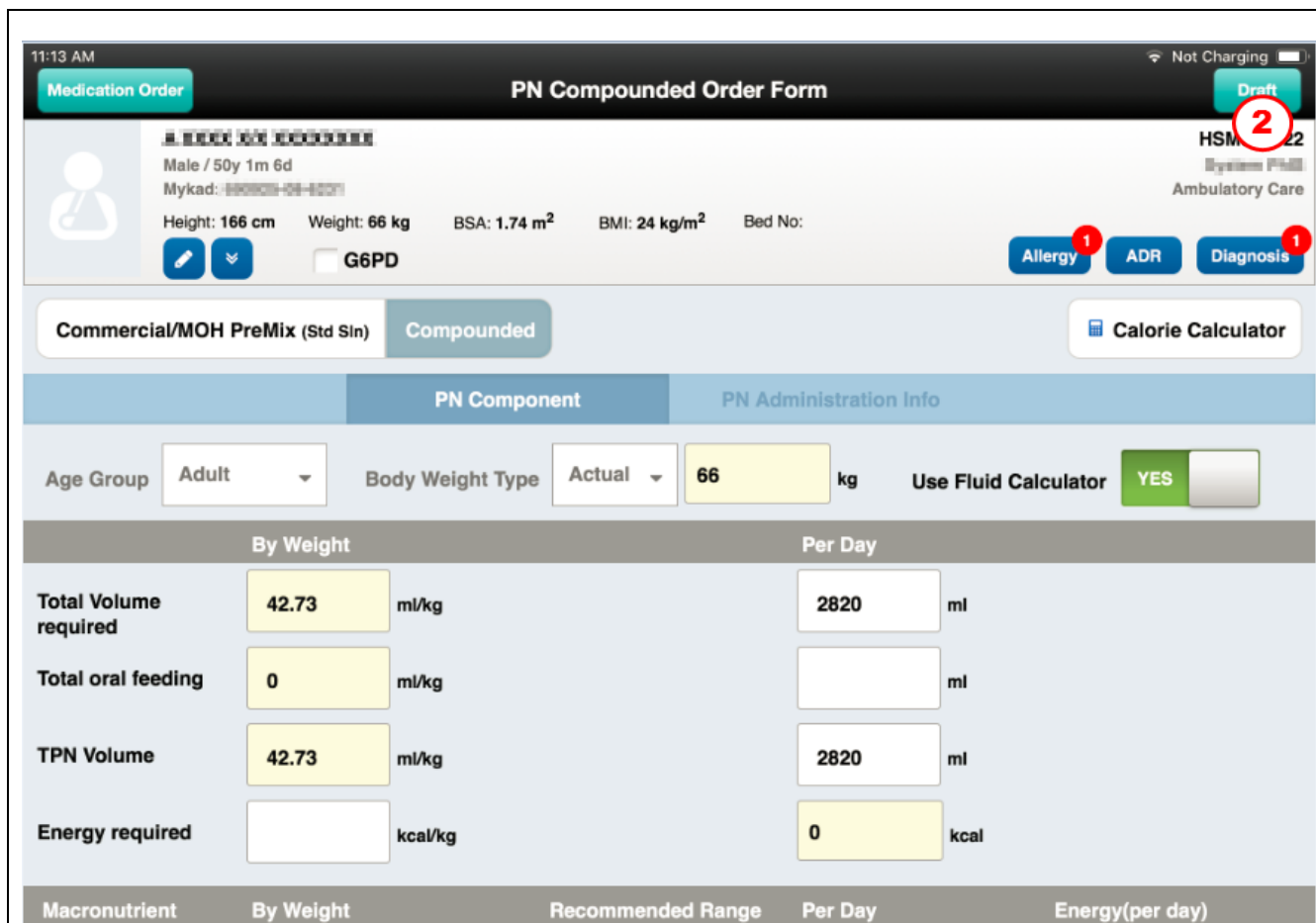
- Repeat **step 1** until **step 3** as 3.1.1 record allergy section
- Repeat **step 1** until **step 3** as 6.3 Commercial / MOH PreMix

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⁺** and **Acetate (CH₃COO)** 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 m² BMI: 24 kg/m² Bed No:
☐ G6PD

Allergy (1) ADR Diagnosis (1)

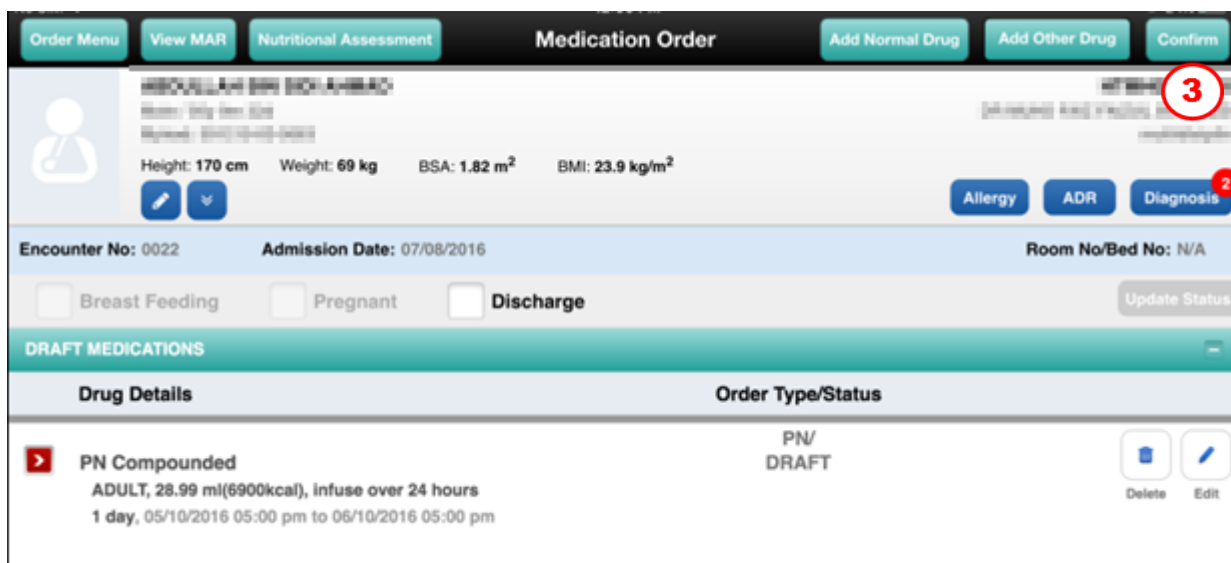
Commercial/MOH PreMix (Std Sin) **Compounded** **Calorie Calculator**

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**

Male / 50y 1m 6d
Mykad: 880808-08-1001
Height: 170 cm Weight: 69 kg BSA: 1.82 m² BMI: 23.9 kg/m²
☐ G6PD

Allergy ADR Diagnosis (2)

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

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

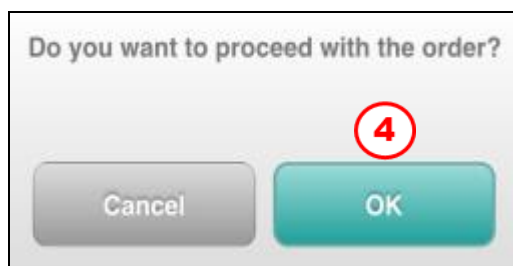
DRAFT MEDICATIONS

Drug Details	Order Type/Status
PN Compounded 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



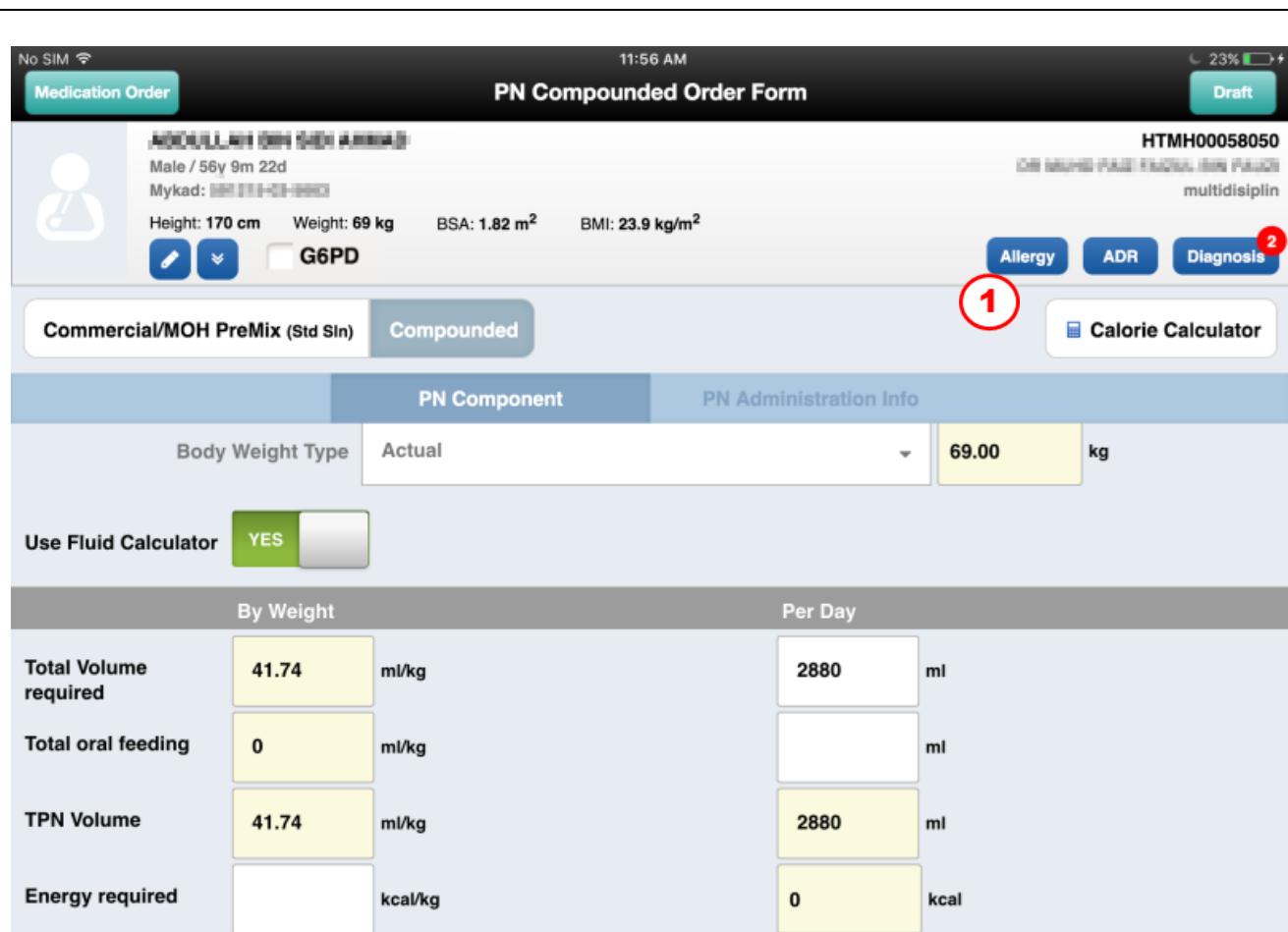
6.3-5 PN Alert Order Screen

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.



Medication Order

PN Compounded Order Form

Draft

HTMH00058050

Male / 56y 9m 22d

Mykad: 880111-8-8888

Height: 170 cm Weight: 69 kg BSA: 1.82 m² BMI: 23.9 kg/m²

G6PD

Allergy ADR Diagnosis

Commercial/MOH PreMix (Std Sln) Compounded

Calorie Calculator

PN Component

PN Administration Info

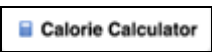
Body Weight Type Actual 69.00 kg

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	kcal/kg	0 kcal

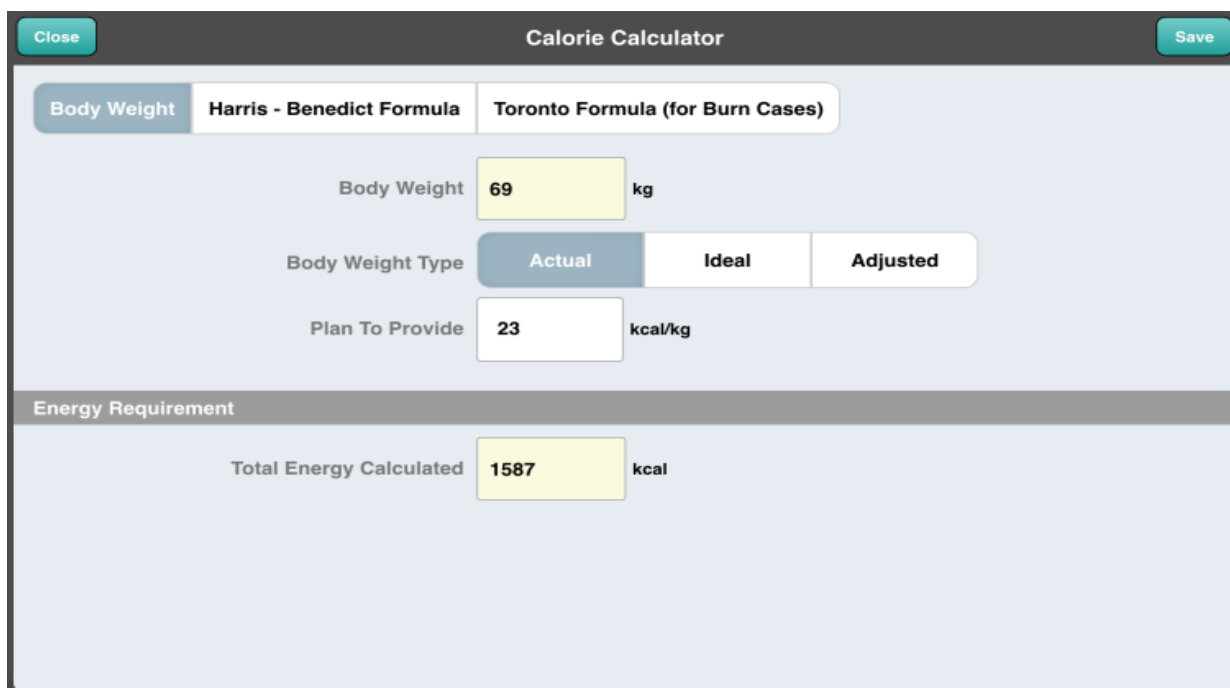
6.4-1 PN Order Screen

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

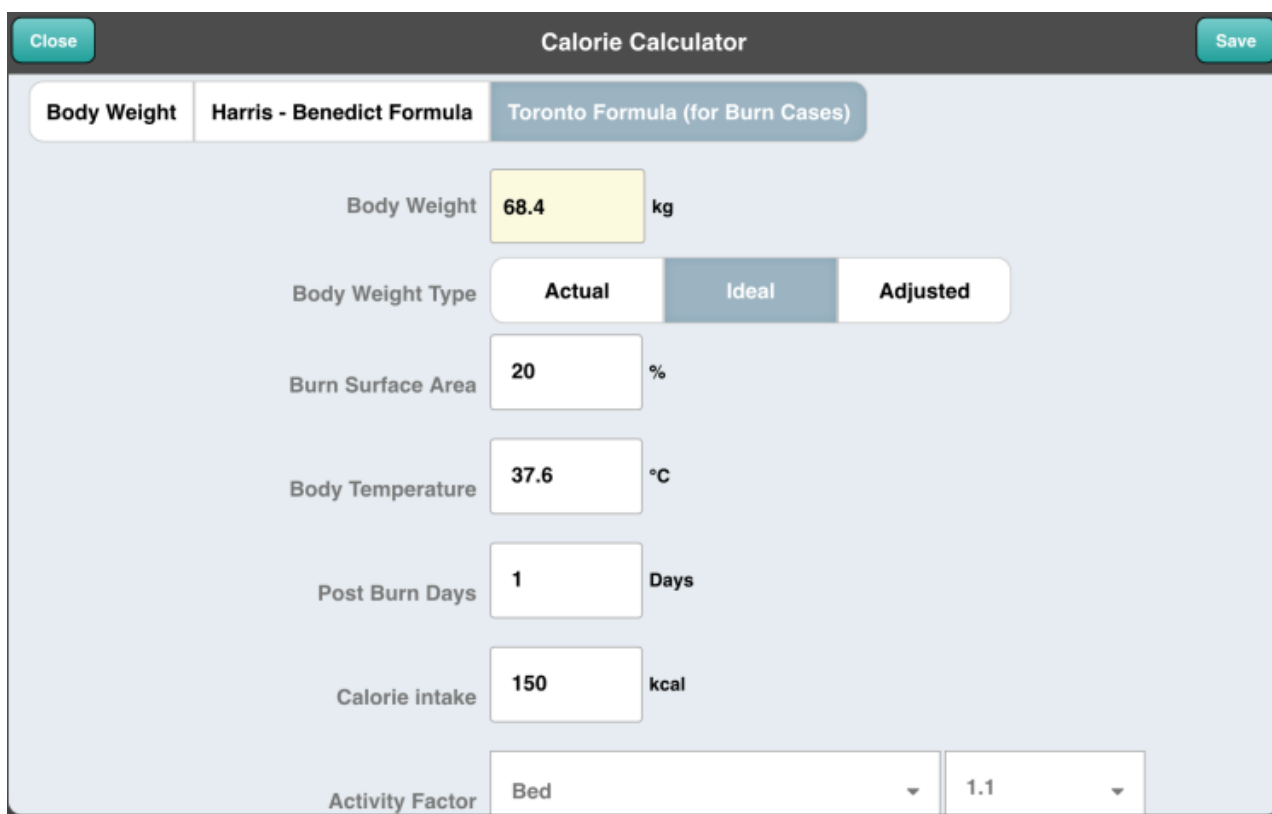
Note

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, multiple trauma, tumour with treatment (surgery, chemotherapy or radiotherapy)(anabolic state).
 - Routine surgery, 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 **Save** button to save record.
- Tap on the **Close** button to close the screen.



The screenshot shows the 'Calorie Calculator' interface with the 'Toronto Formula (for Burn Cases)' selected. The inputs 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

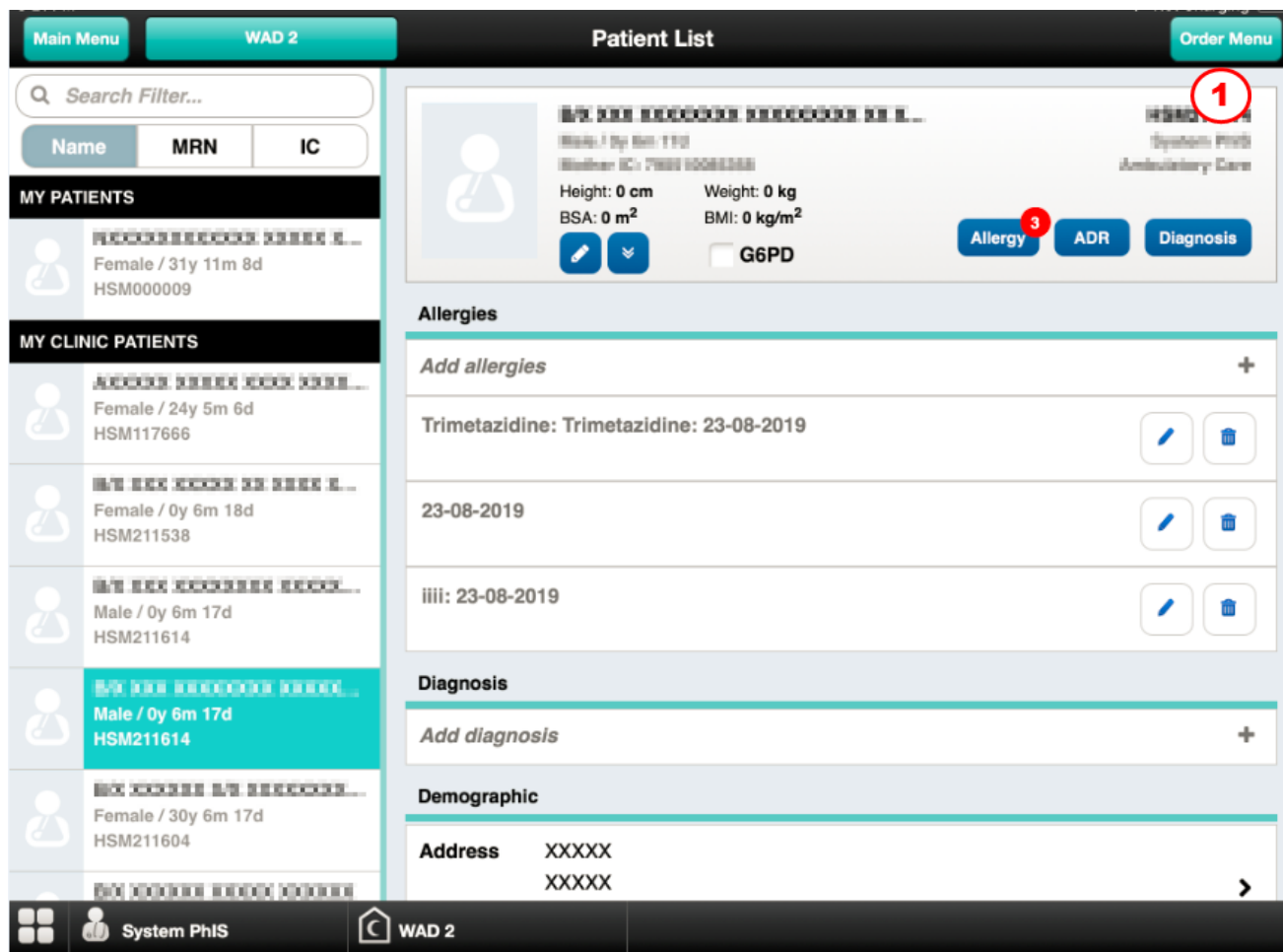
PN Calculator : Toronto Formula

- 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

Height: 0 cm Weight: 0 kg
BSA: 0 m² BMI: 0 kg/m²

3

G6PD

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

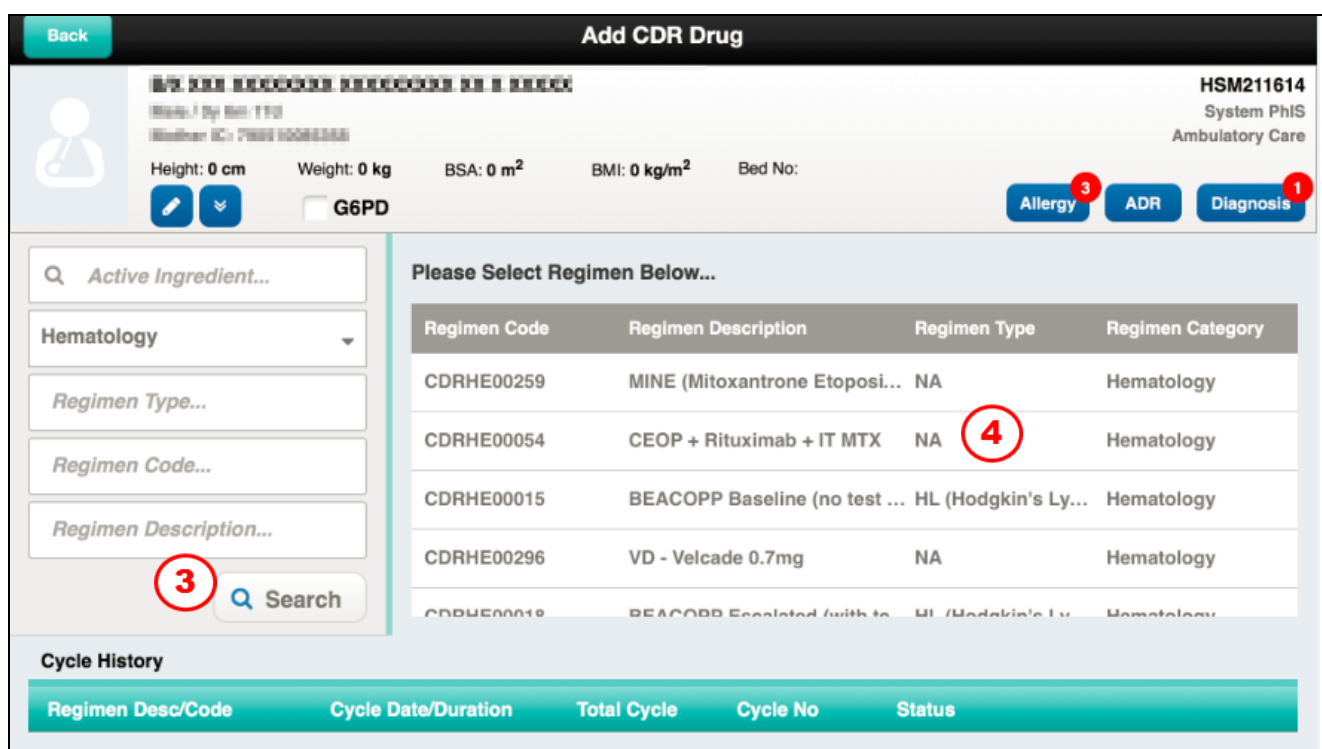
Tap on the **Order Menu**



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

Regimen Desc/Code	Cycle Date/Duration	Total Cycle	Cycle No	Status
-------------------	---------------------	-------------	----------	--------

7.0-3 CDR Order Screen

STEP 2

Tap on the **CDR** menu

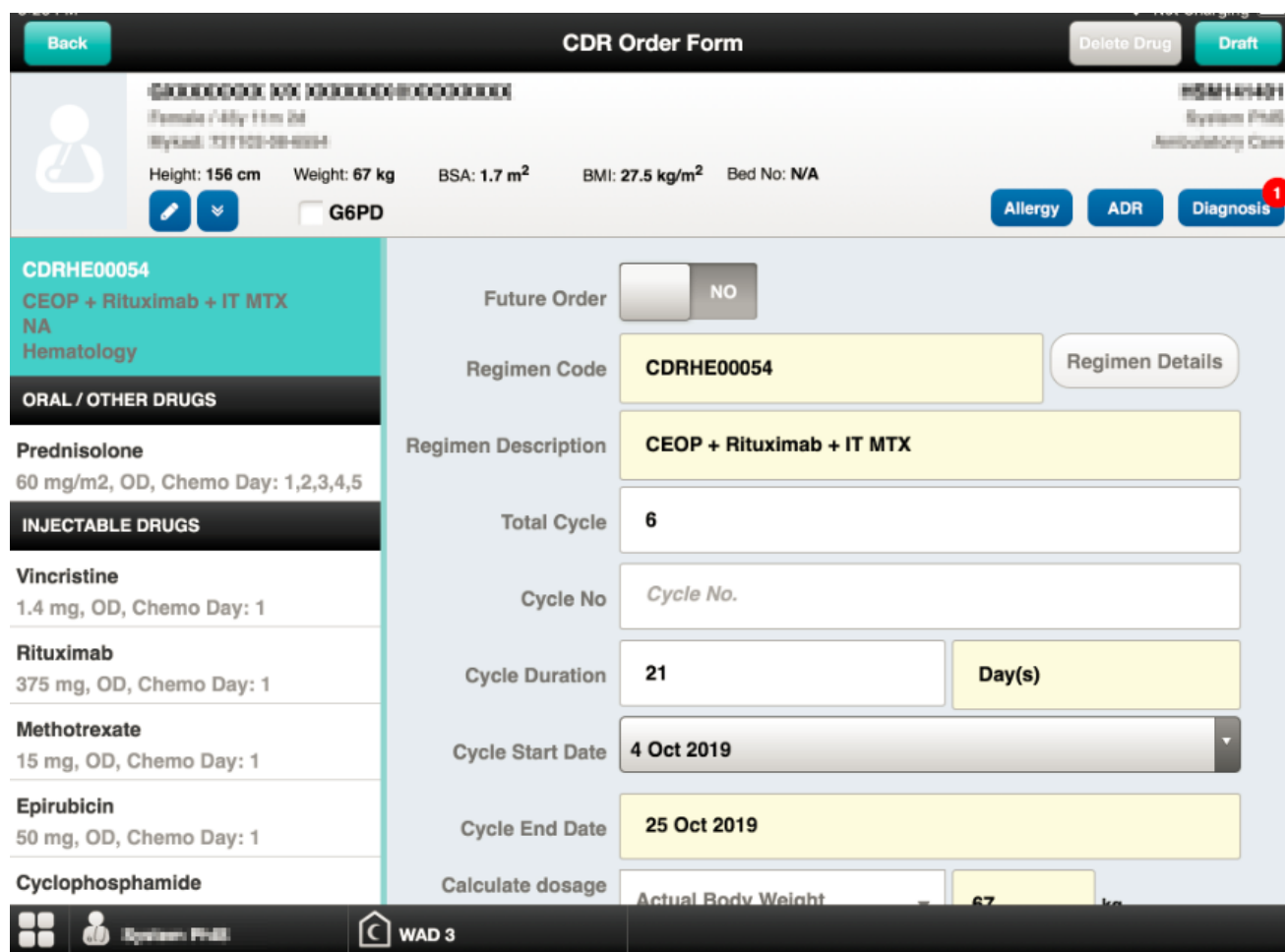
STEP 3

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:

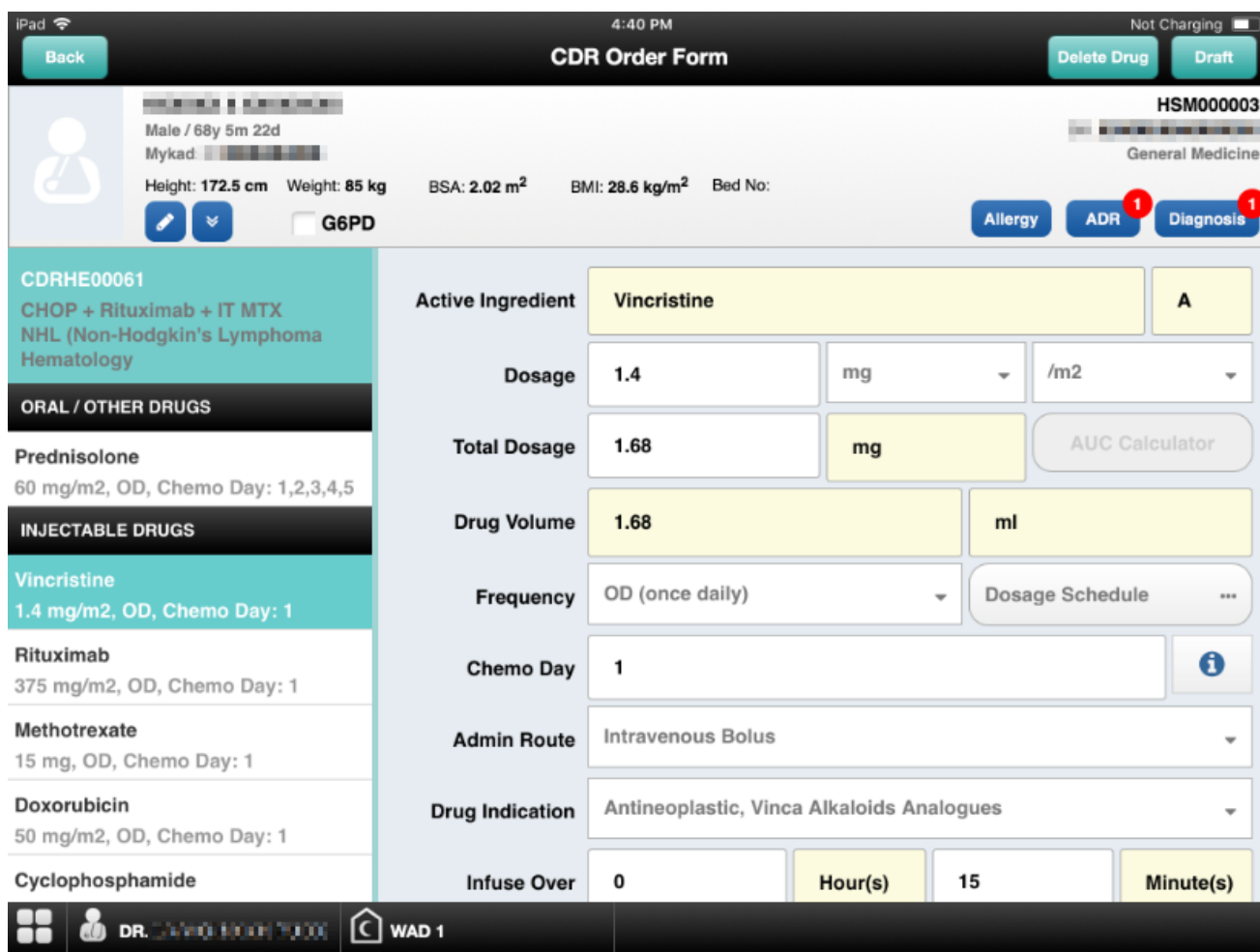
Active Ingredient	Dosage	Admin Route	Frequency	Chemo Days	Status
Prednisolone	30 mg	Oral	BD (twice daily)	1-7	Active
Cyclophosphamide	300 mg	Intravenous Slow Bolus	OD (once daily)	1	Active
Vincristine	1 mg	Intravenous Slow Bolus	OD (once daily)	1	Active

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



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 m² BMI: 22.3 kg/m² Bed No:

☐ G6PD Allergy ADR Diagnosis

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

ORAL / OTHER DRUGS
Prednisolone
60 mg/m², OD, Chemo Day: 1,2,3,4,5

INJECTABLE DRUGS
Vincristine
1.4 mg/m², OD, Chemo Day: 1
Rituximab
375 mg/m², OD, Chemo Day: 1
Methotrexate
15 mg, OD, Chemo Day: 1
Doxorubicin
50 mg/m², 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 m²

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
XXXXXXXXXX HS
Mykad: XXXXXXXX Ambulatory Care

Height: 156 cm Weight: 67 kg BSA: 1.7 m² BMI: 27.5 kg/m² Bed No: N/A

☐ Breast Feeding ☐ Pregnant ☐ Discharge ☐ G6PD Update Status

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

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

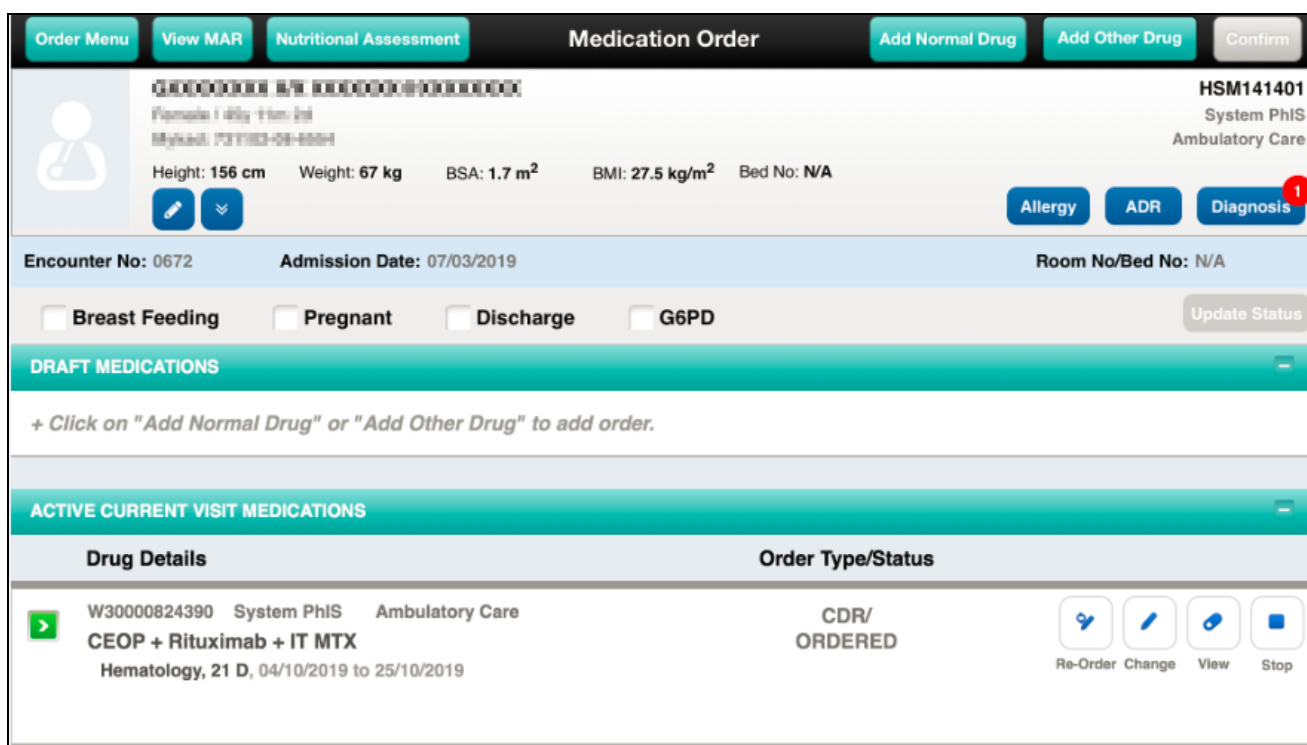
Tap on the  button to add the regimen in the prescription



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 m² BMI: 27.5 kg/m² 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

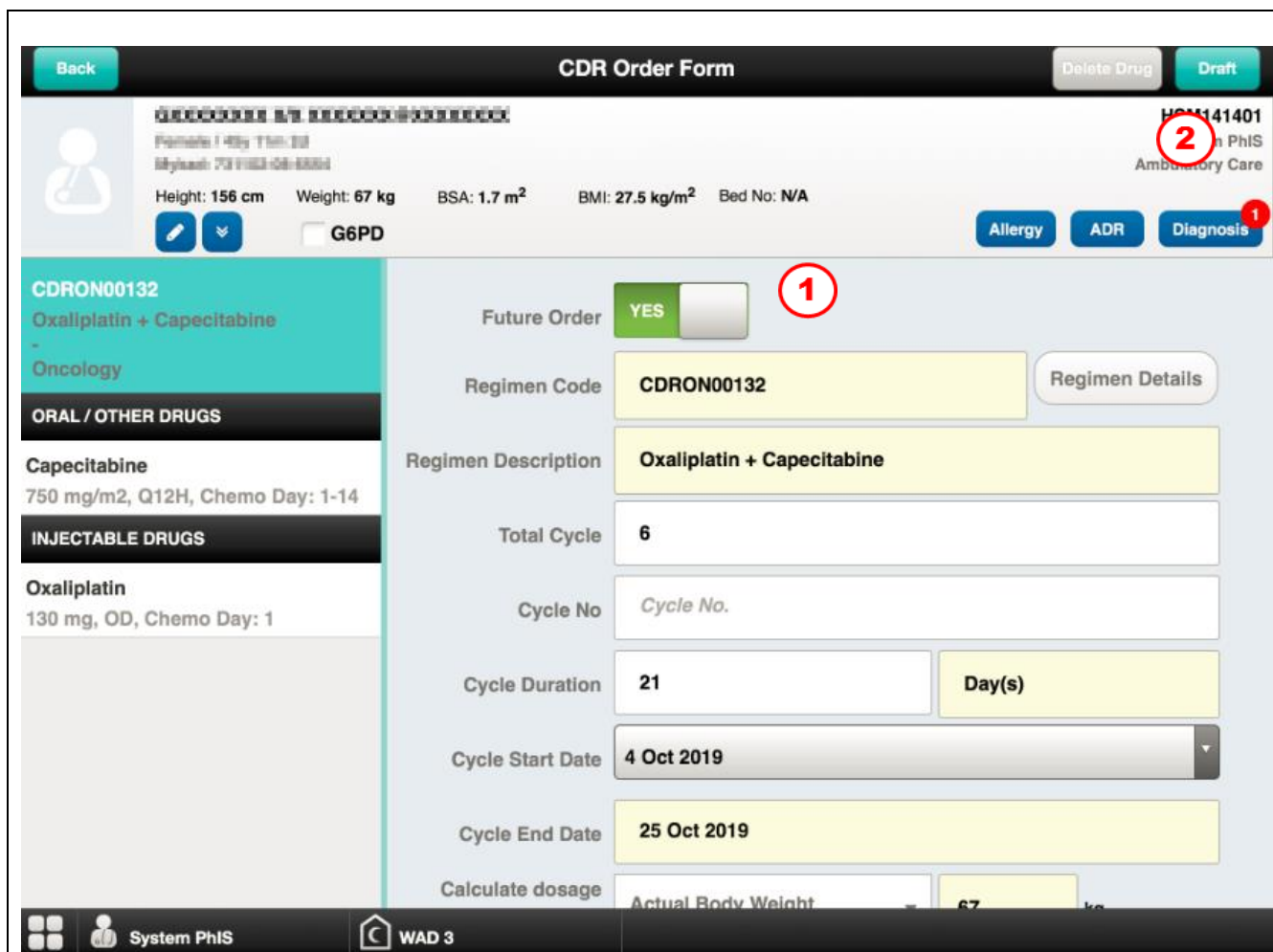
Drug Details	Order Type/Status	Actions
W30000824390 System PhIS Ambulatory Care CEOP + Rituximab + IT MTX Hematology, 21 D, 04/10/2019 to 25/10/2019	CDR/ ORDERED	    Re-Order Change View Stop

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

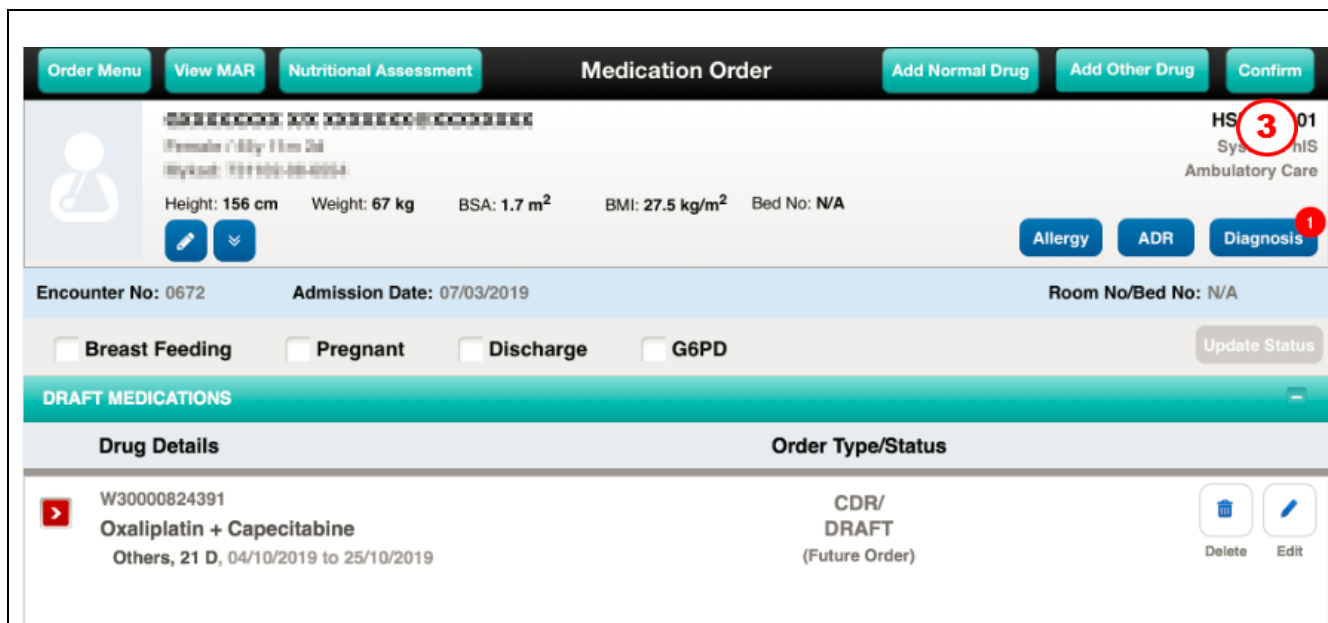
Repeat **step 1** until **step 4** as section 7.0 Cytotoxic Drug Reconstitution

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 m² BMI: 27.5 kg/m² 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**

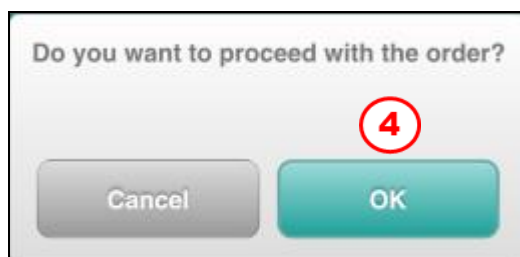
DRAFT MEDICATIONS

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 **Confirm** button to add the regimen in the prescription



Do you want to proceed with the order?

Cancel **OK**

7.1-3 CDR Alert Message

STEP 4

Tap on the **OK** 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 m²

BMI: 23.9 kg/m²

G6PD

Allergy

ADR

Diagnosis ²

- 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

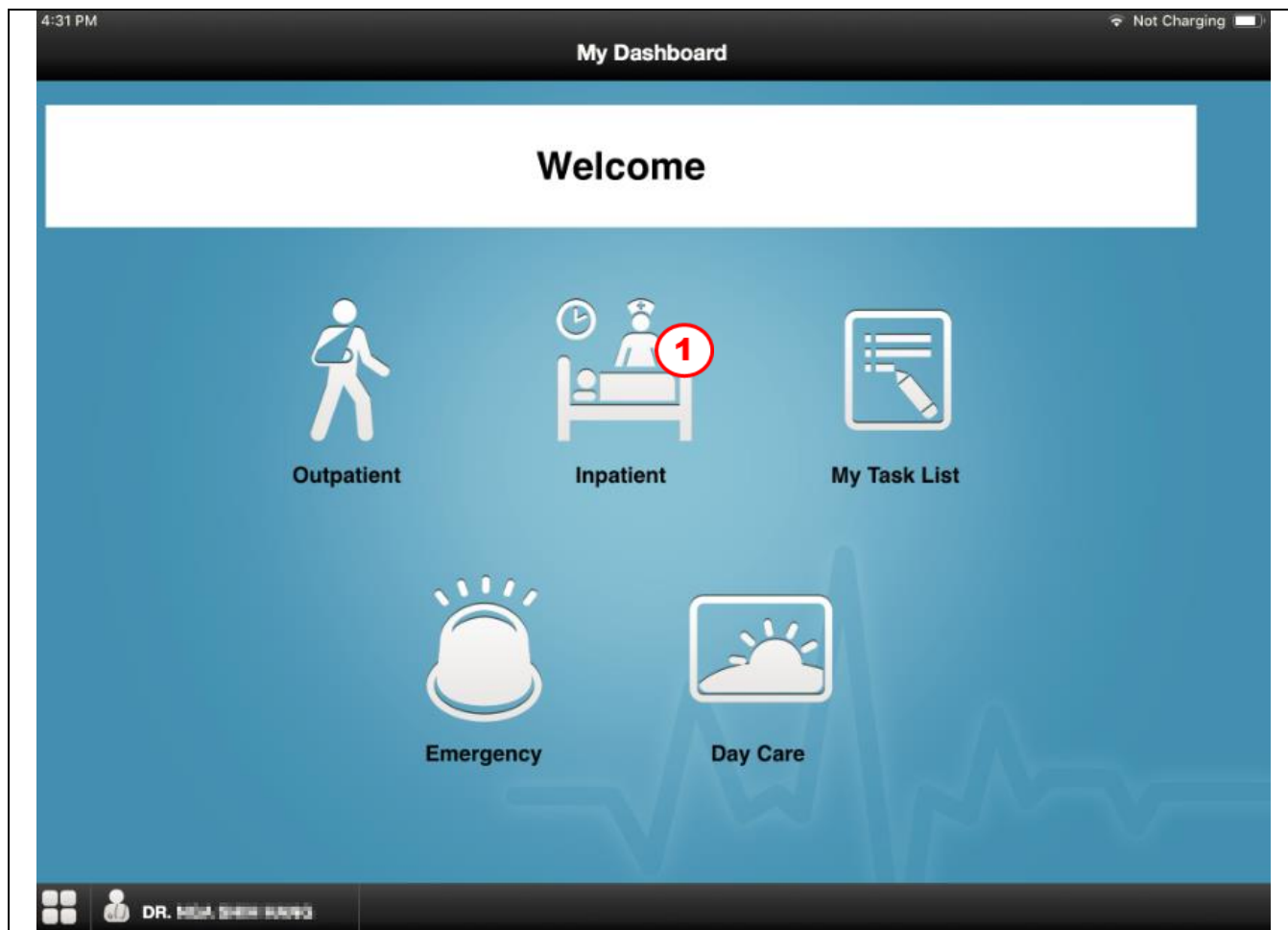


Figure 7.2.1-1 Main Page

STEP 1

Tap on Inpatient Icon

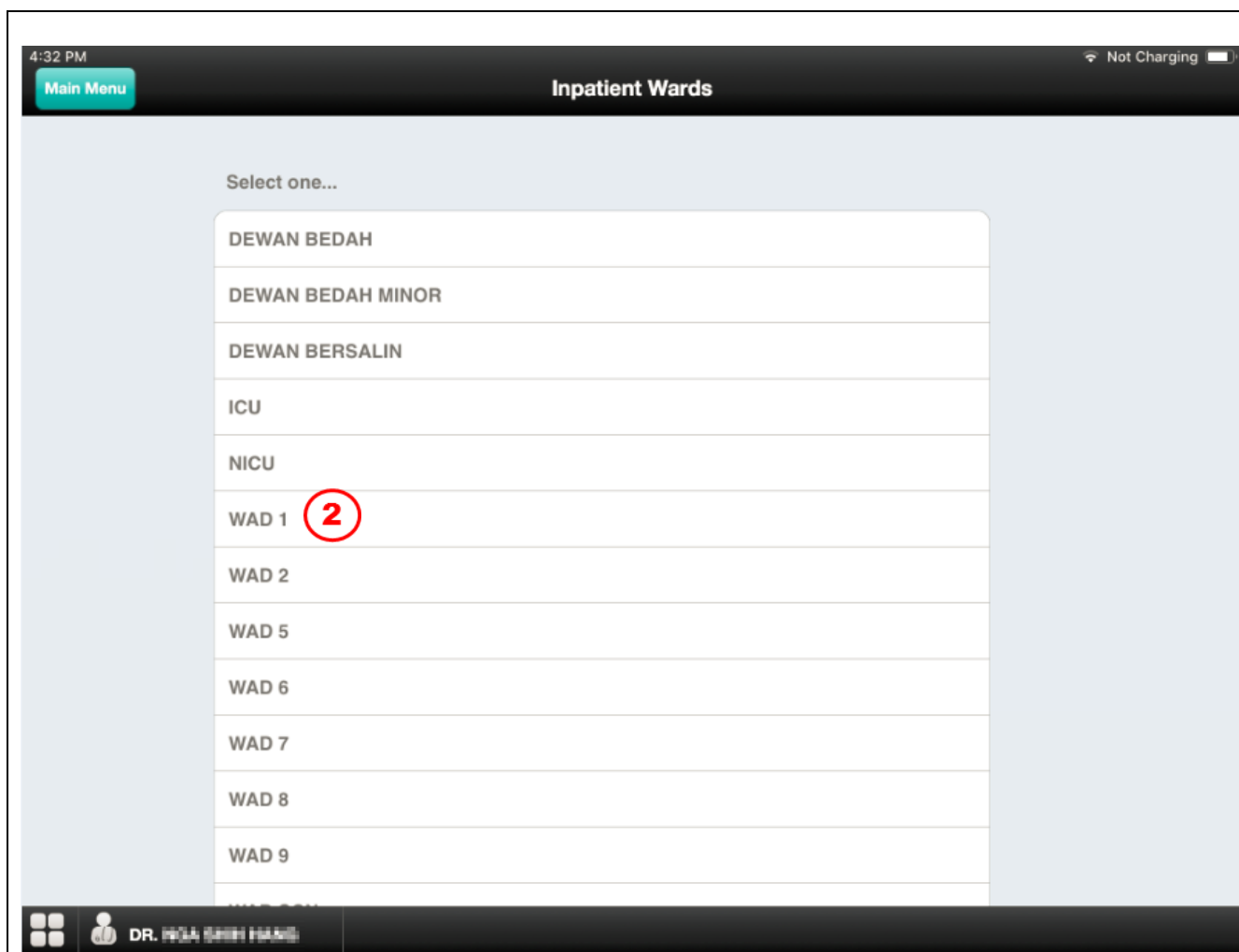


Figure 7.2.1-2 Location Screen Listing Page

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

Q 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 m²

BMI: 24.9 kg/m²

G6PD

HSM00211628

DR. NOLA SHIH HANG

General Paediatrics

Allergy

ADR

Diagnosis

Allergies

Add allergies

Diagnosis

Add diagnosis

test

Demographic

Address

Contact No. N/A

Pharmacist Note

Date/Time

Visit Location

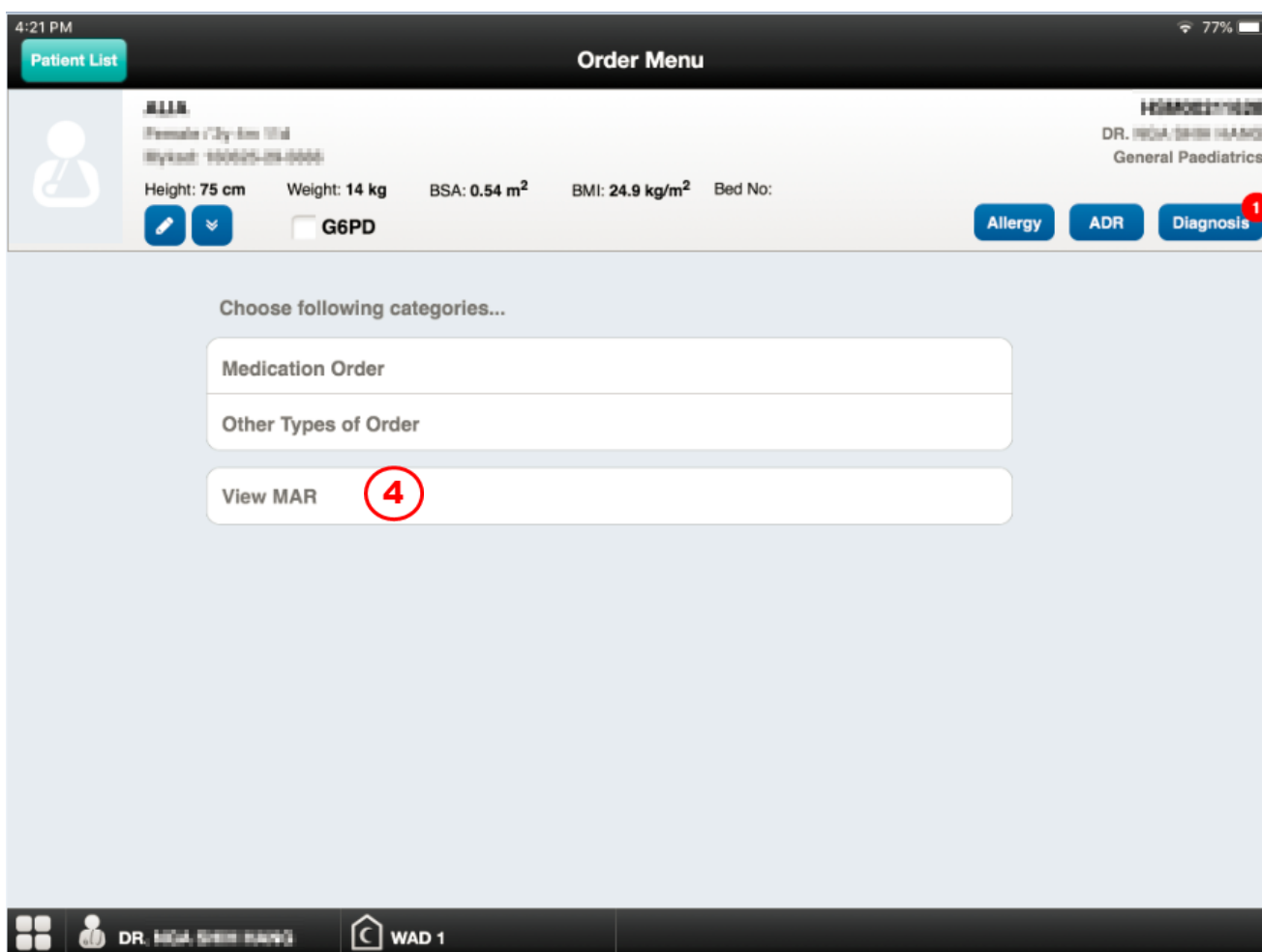
Type of Service

Pharmacist Notes

Figure 7.2.1-3 Patient Listing Page

STEP 3

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



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 name, ID, and contact information. Patient details include Height: 75 cm, Weight: 14 kg, BSA: 0.54 m², BMI: 24.9 kg/m², and Bed No. There are buttons for 'Allergy', 'ADR', and 'Diagnosis' (with a red notification badge). A section titled 'Choose following categories...' contains three buttons: 'Medication Order', 'Other Types of Order', and 'View MAR'. The 'View MAR' button is circled in red with the number '4' inside, indicating the step to be followed. The bottom navigation bar shows a home icon, a user profile icon for 'DR. [Name]', and a 'WAD 1' icon.

Figure 7.2.1-4 Medication Order Page

STEP 4

Tap on the **View MAR**

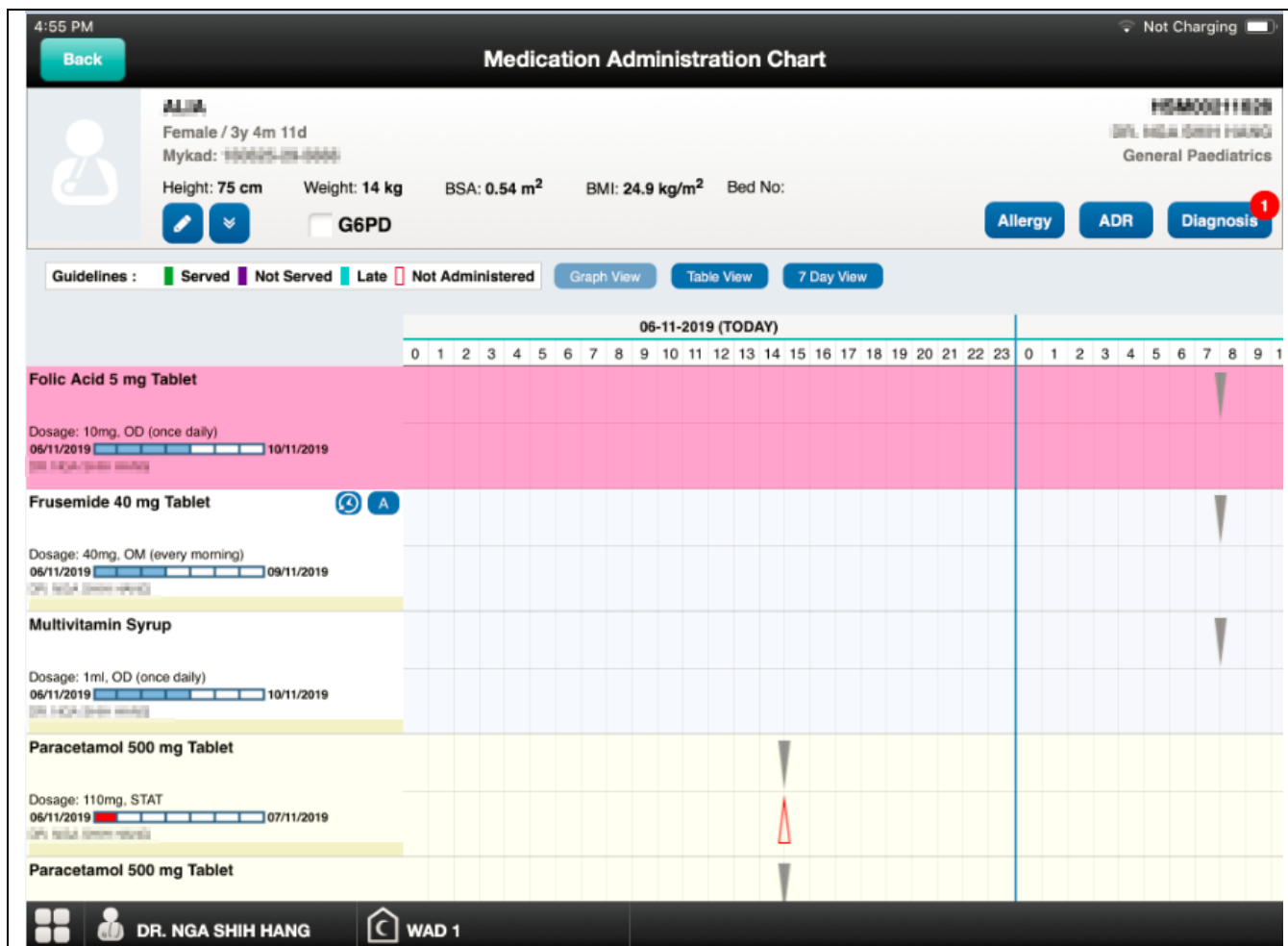


Figure 7.2.1-5 View MAR Graph View

Note

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

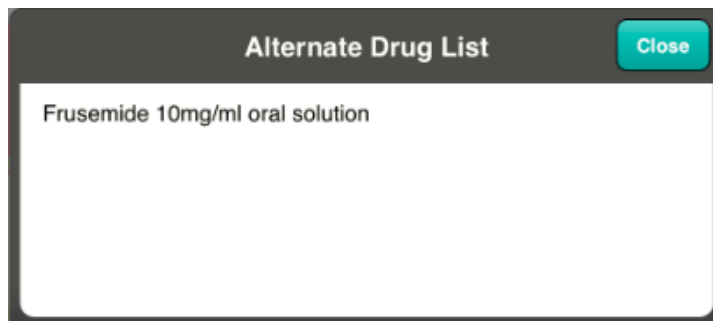


Figure 7.2.1-6 Alternate Drug List

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 Phis	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

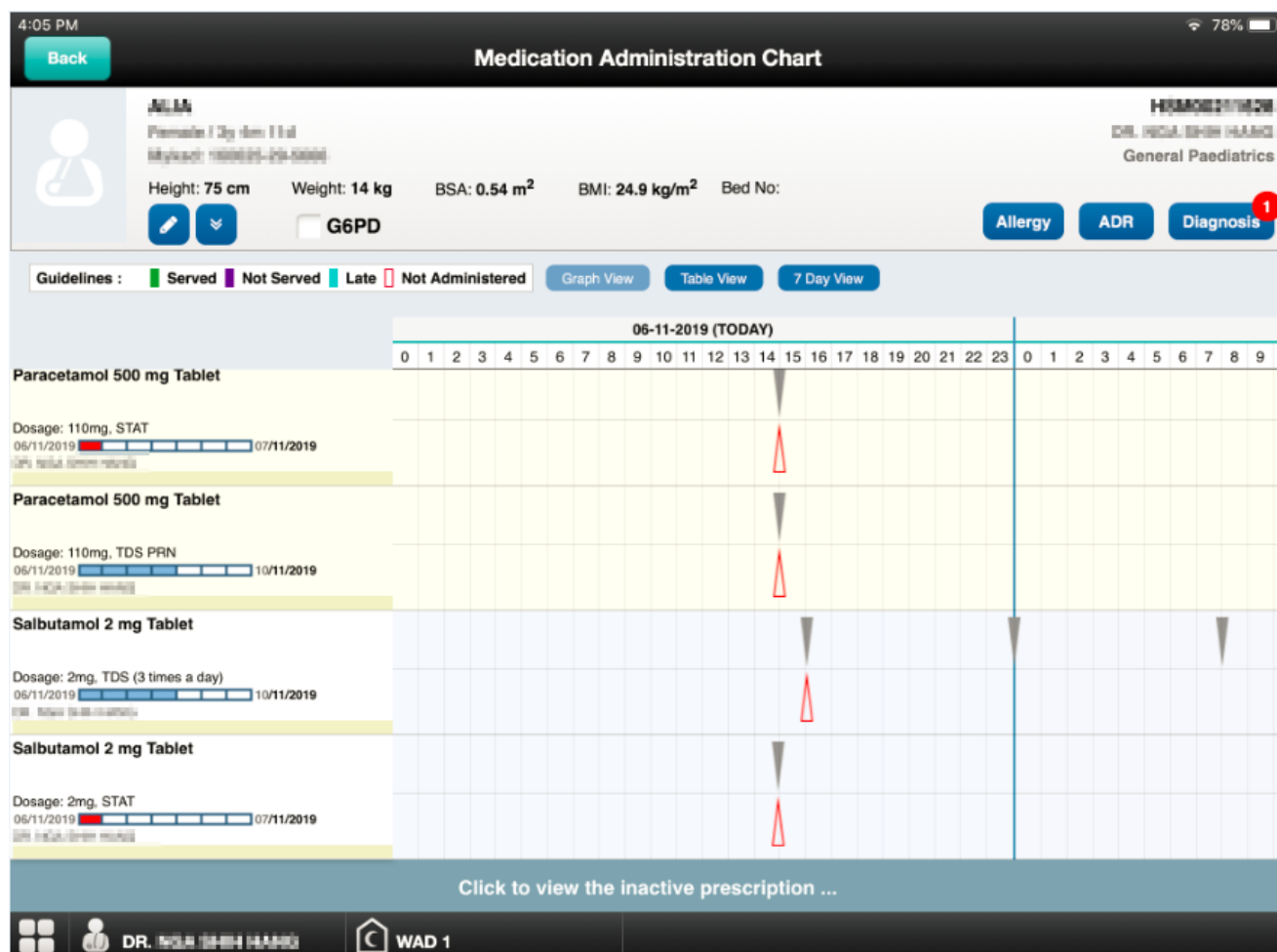


Figure 7.2.1-8 View MAR

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

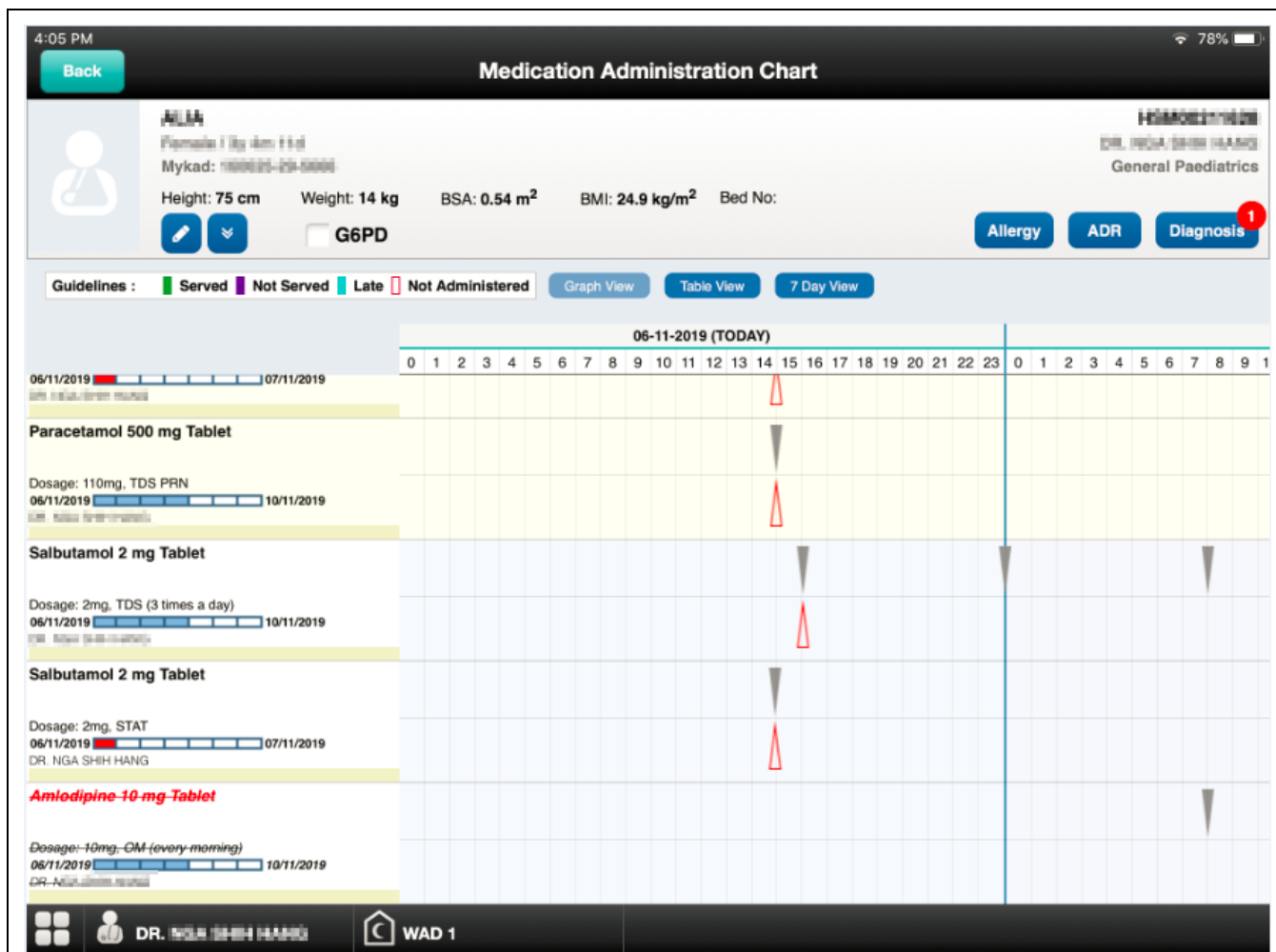


Figure 7.2.1-9 View MAR

- 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

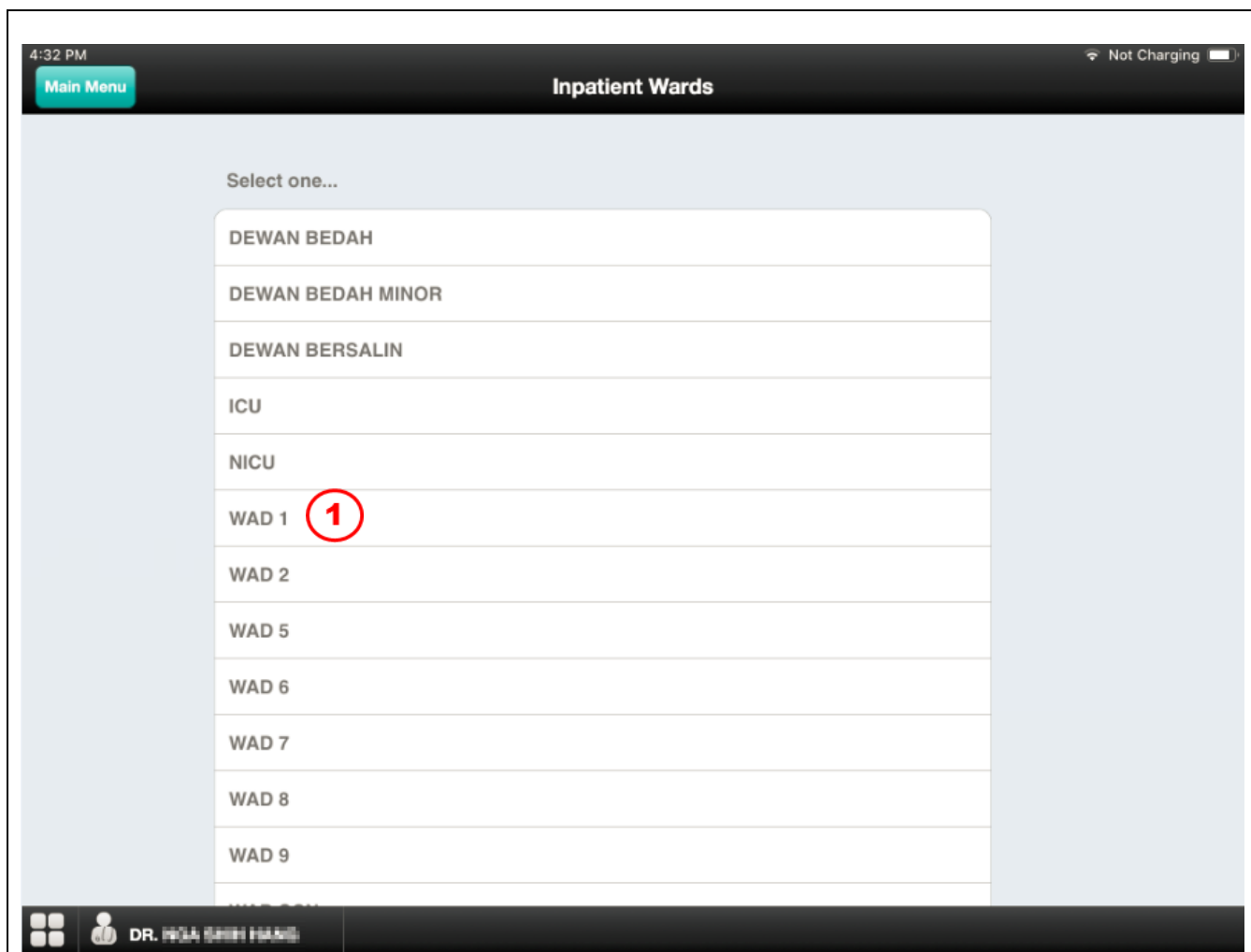
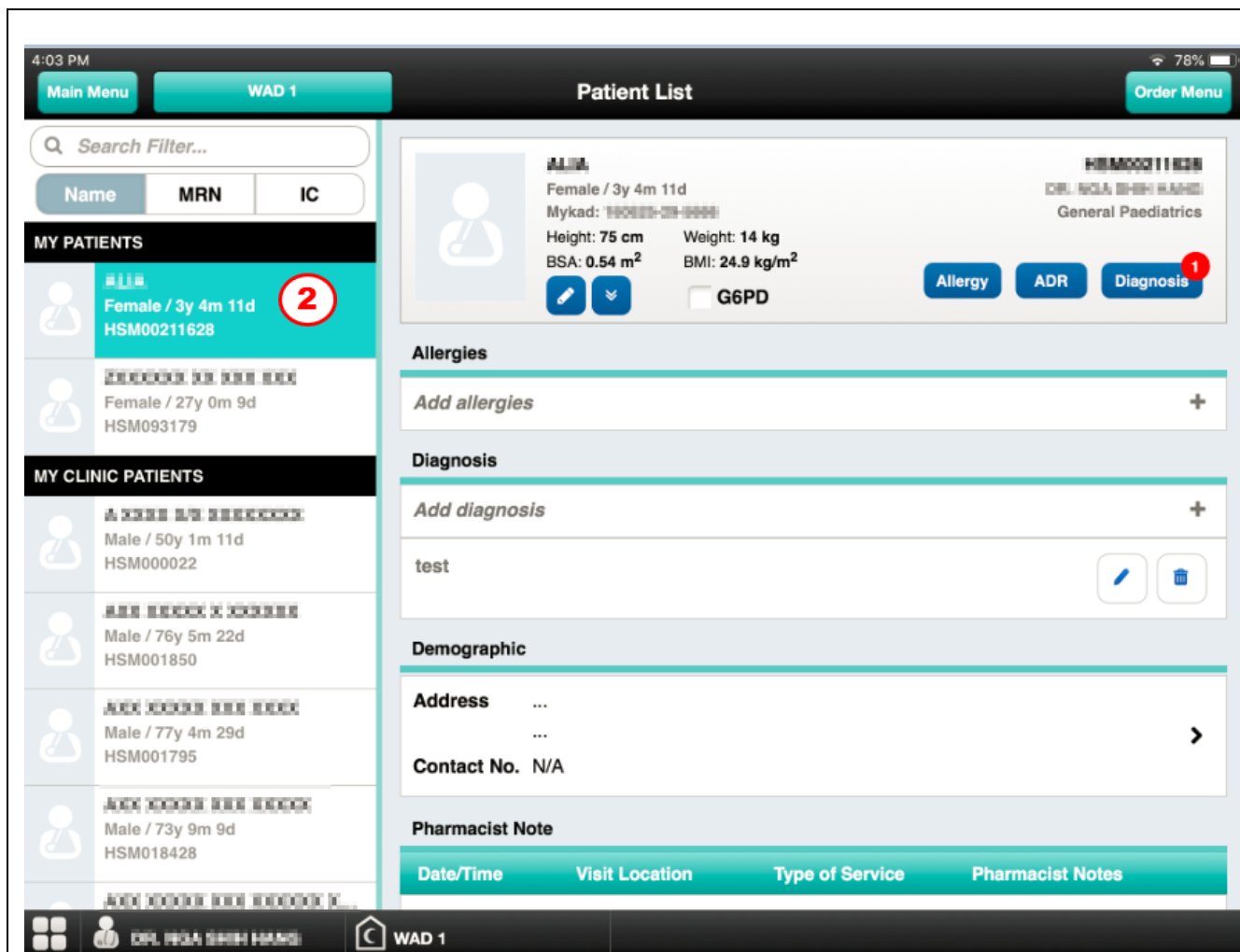


Figure 7.2.2-1 Location Screen Listing Page

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 HSM00211628

Female / 3y 4m 11d
Mykad: [REDACTED]
Height: 75 cm Weight: 14 kg
BSA: 0.54 m² BMI: 24.9 kg/m²
G6PD

General Paediatrics

Allergy ADR Diagnosis **1**

Allergies

Add allergies +

Diagnosis

Add diagnosis +

test [Edit] [Delete]

Demographic

Address ... >

Contact No. N/A

Pharmacist Note

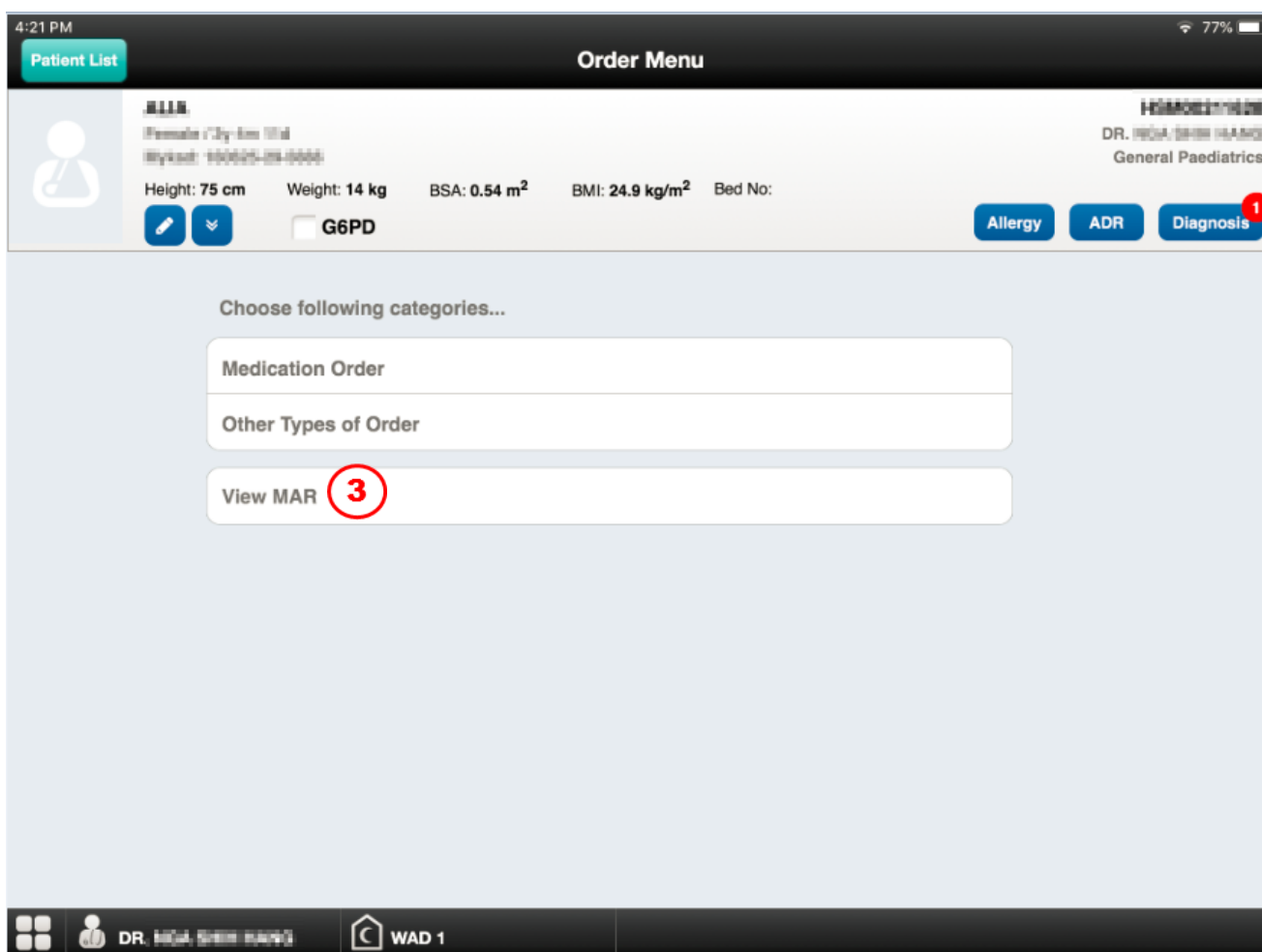
Date/Time	Visit Location	Type of Service	Pharmacist Notes
-----------	----------------	-----------------	------------------

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 is shown with a name, ID, and contact details. Patient vitals and demographics are listed: Height: 75 cm, Weight: 14 kg, BSA: 0.54 m², BMI: 24.9 kg/m², and Bed No. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis'. A section titled 'Choose following categories...' 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 user profile icon for 'DR. [Name]', and a 'WAD 1' icon.

Figure 7.2.2-3 Medication Order Page

STEP 3

Tap on the **View MAR**

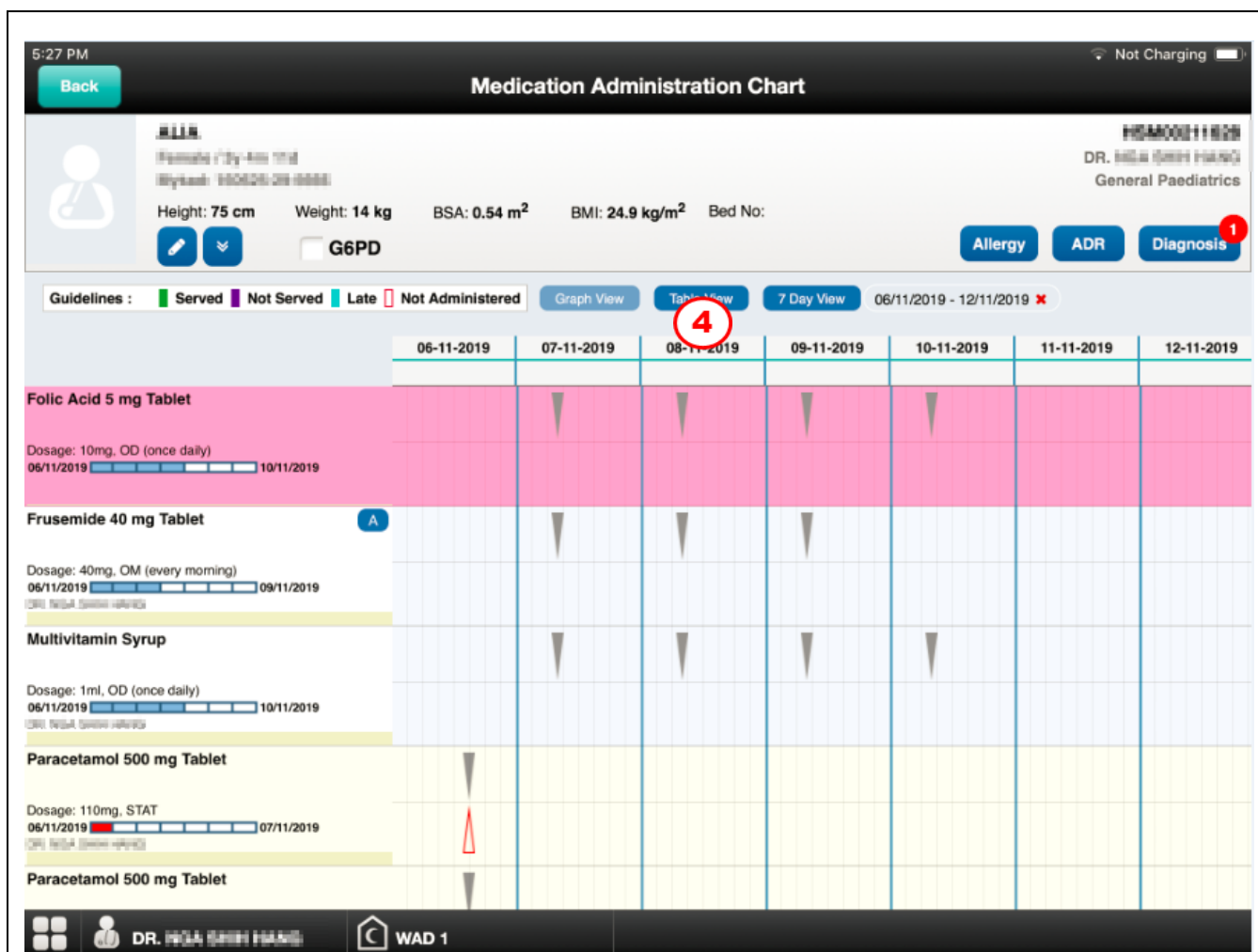


Figure 7.2.2-4 View MAR Graph View

STEP 4

Tap on the **Table View** button and system will display as Figure 7.2.2-5

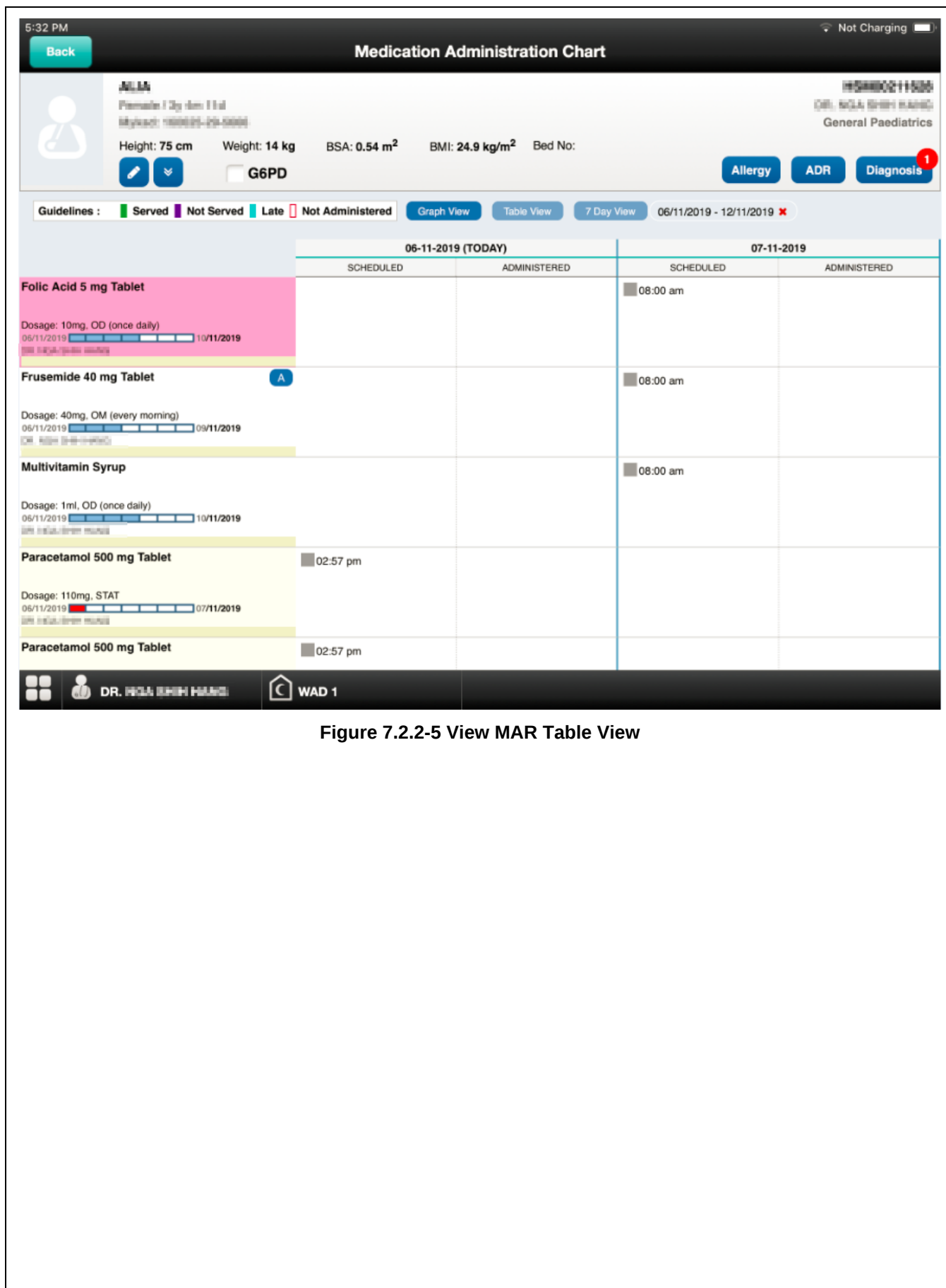


Figure 7.2.2-5 View MAR Table View

7.2.3 View MAR – 7 Days View.

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

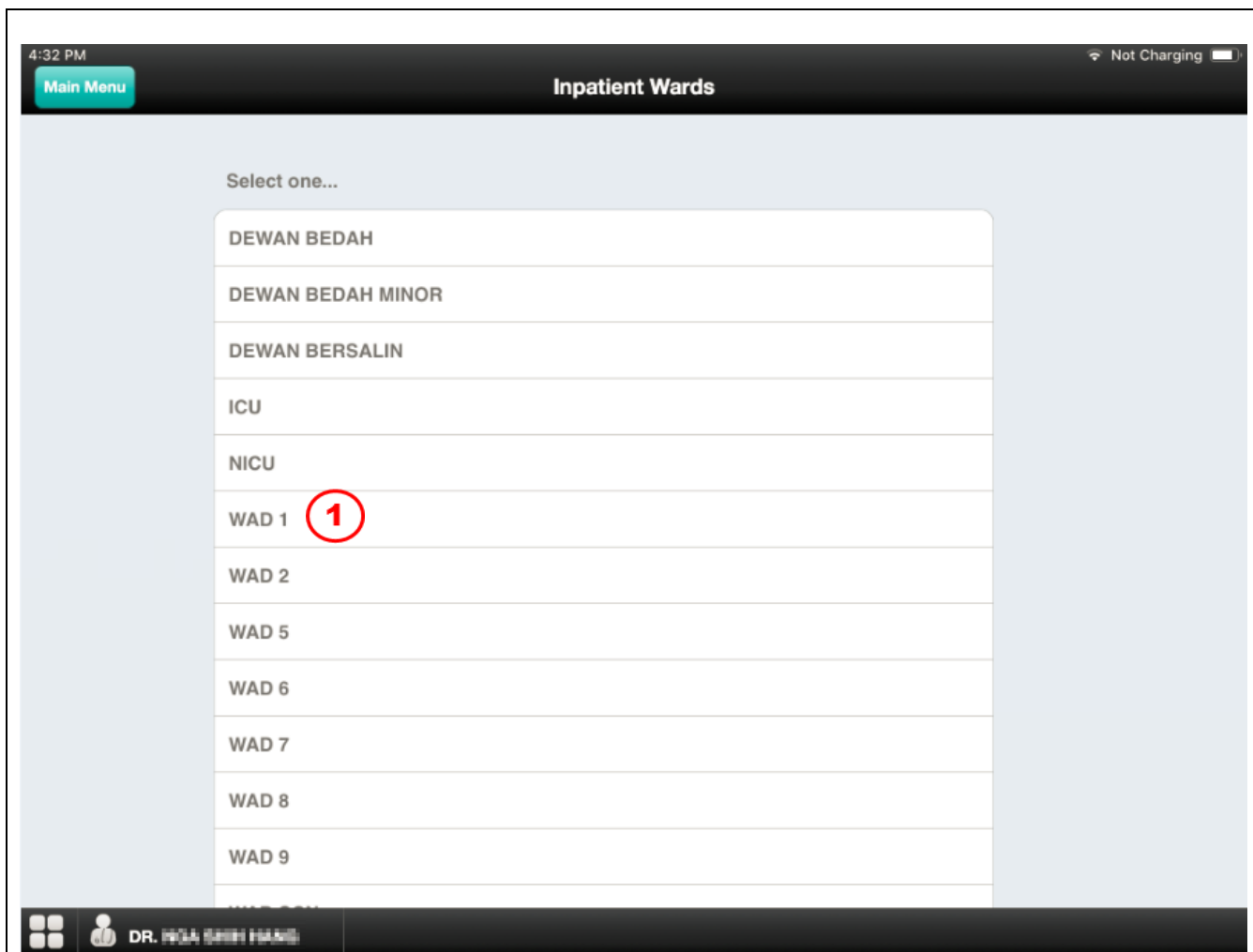
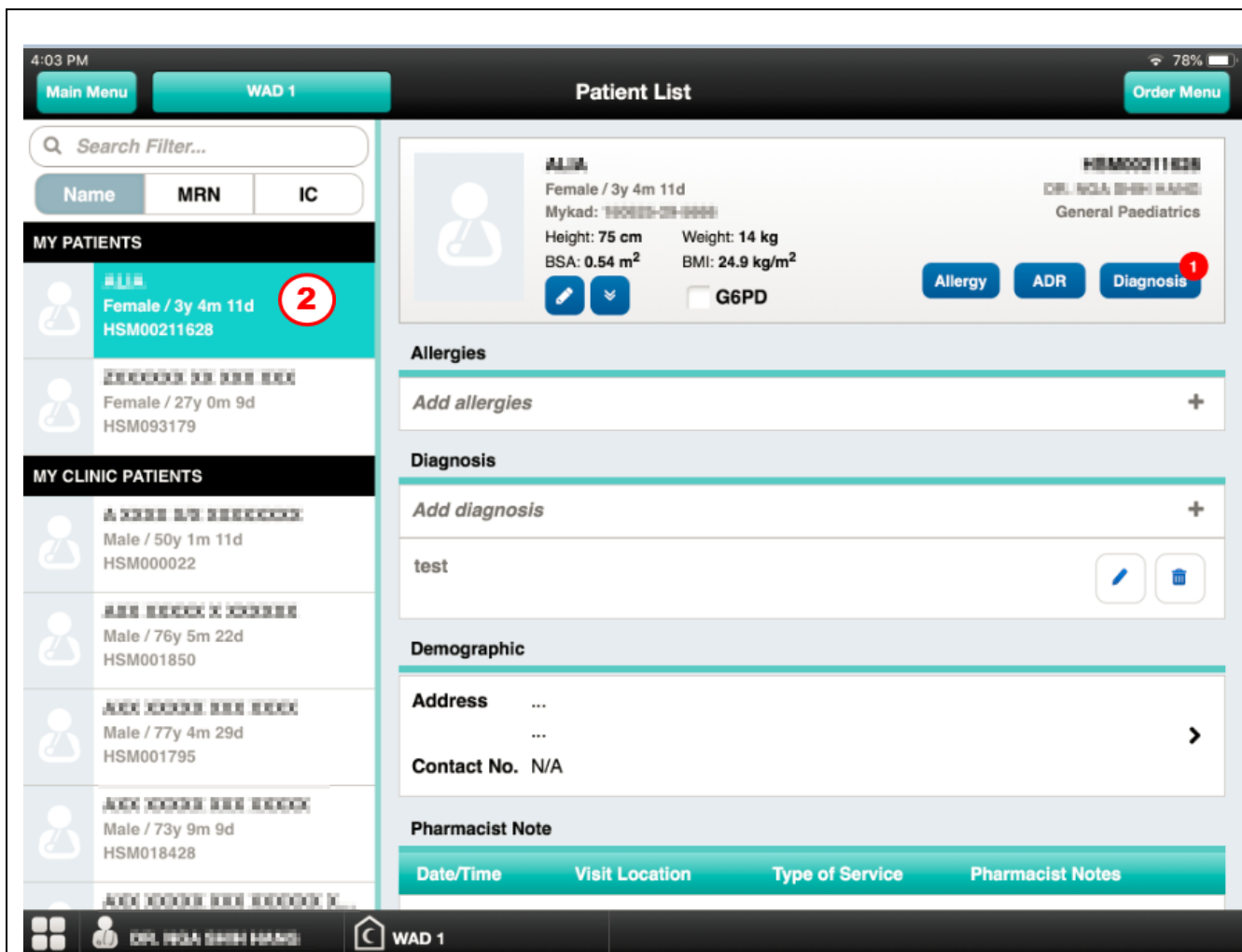


Figure 7.2.3-1 Location Screen Listing Page

STEP 1

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



4:03 PM 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 HSM00211628

Female / 3y 4m 11d
Mykad: 190808-08-0000
Height: 75 cm Weight: 14 kg
BSA: 0.54 m² BMI: 24.9 kg/m²
G6PD

General Paediatrics

Allergy ADR Diagnosis **1**

Allergies

Add allergies +

Diagnosis

Add diagnosis +

test

Demographic

Address ...

Contact No. N/A

Pharmacist Note

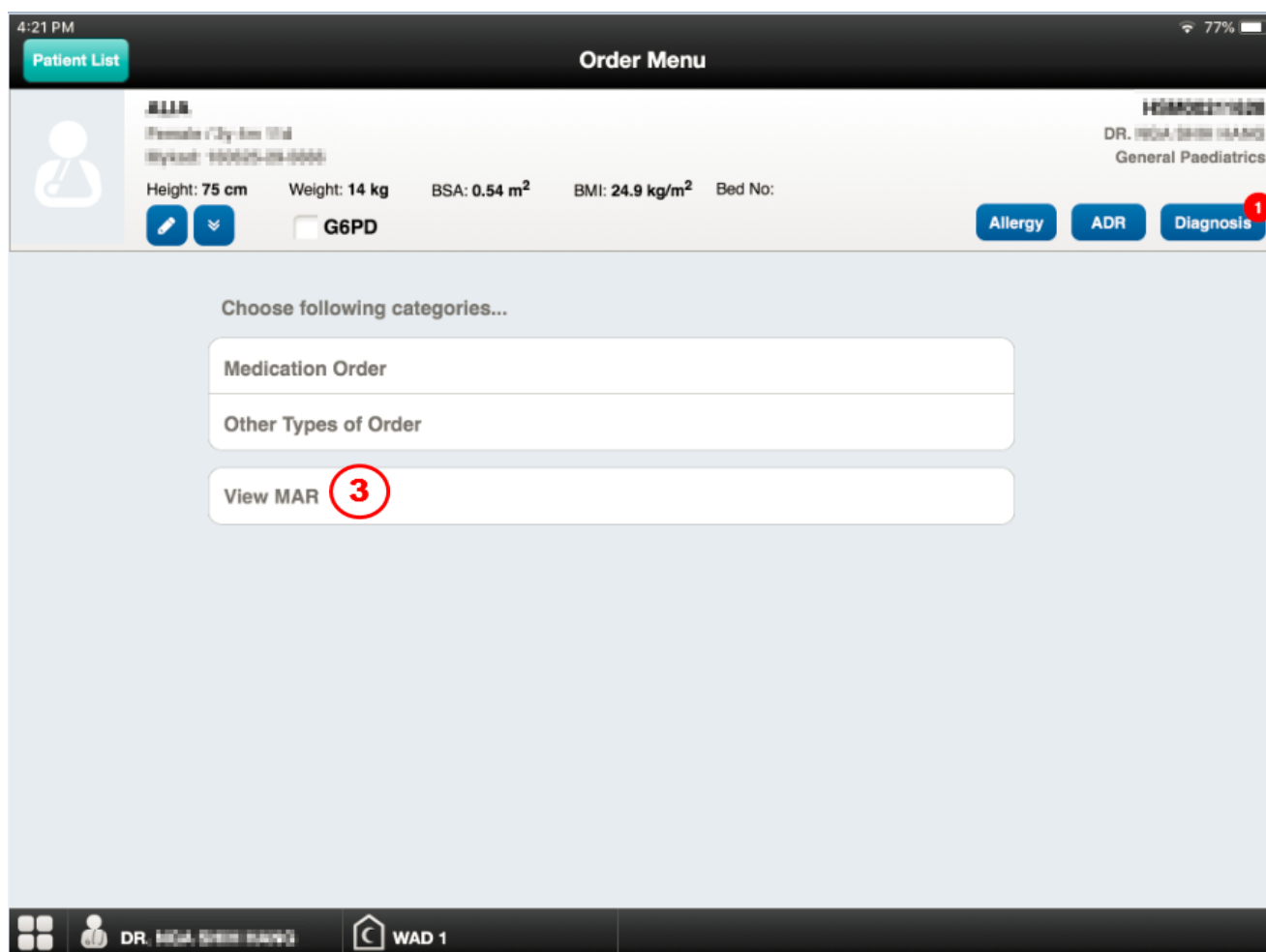
Date/Time	Visit Location	Type of Service	Pharmacist Notes
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DR. NGA SHIH HANG WAD 1

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 bar includes a 'Patient List' button and the title 'Order Menu'. Below the header, the patient's profile is shown, including a name, gender, age, and various medical details like height, weight, BSA, BMI, and bed number. There are also buttons for 'Allergy', 'ADR', and 'Diagnosis'. The main content area is titled 'Choose following categories...' and lists three options: 'Medication Order', 'Other Types of Order', and 'View MAR'. The 'View MAR' option is highlighted with a red circle and the number 3, indicating the next step in the process. At the bottom, there is a navigation bar with icons for a grid, a person, and a house, along with the text 'DR. [Name]' and 'WAD 1'.

Figure 7.2.3-3 Medication Order Page

STEP 3

Tap on the **View MAR**

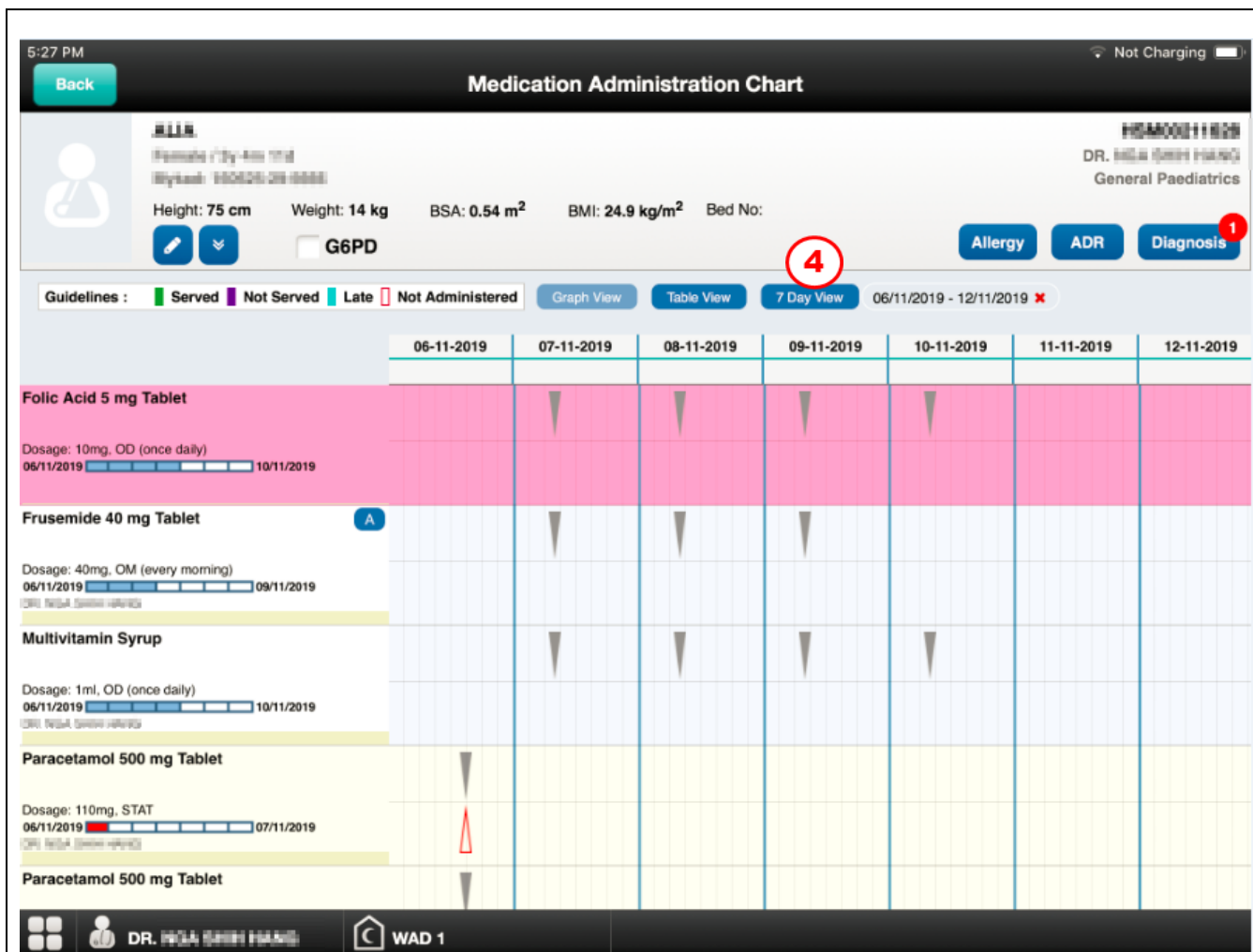


Figure 7.2.3-4 View MAR Graph View

STEP 4

Tap on the **7 Day View** button

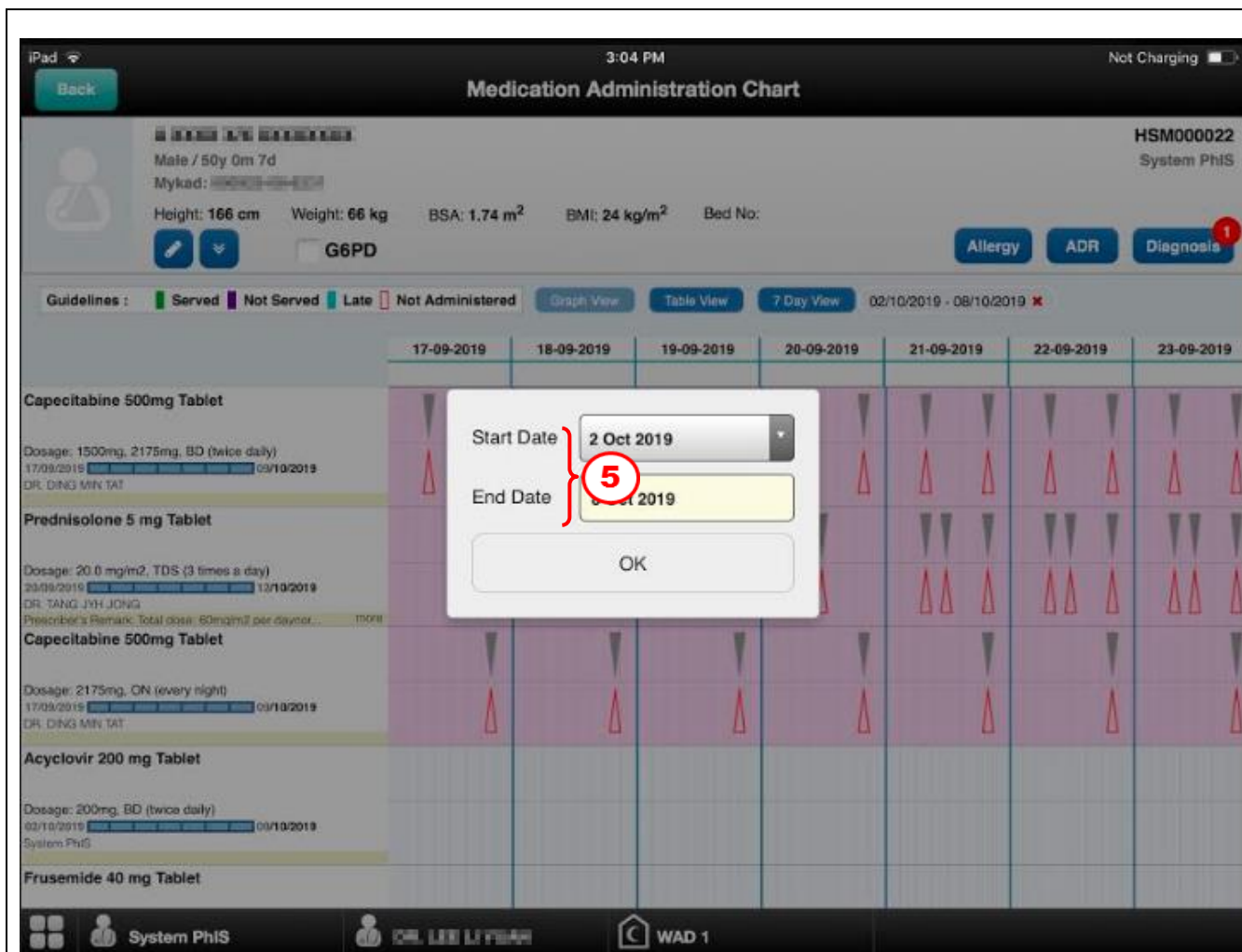


Figure 7.2.3-5 View MAR Graph View

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

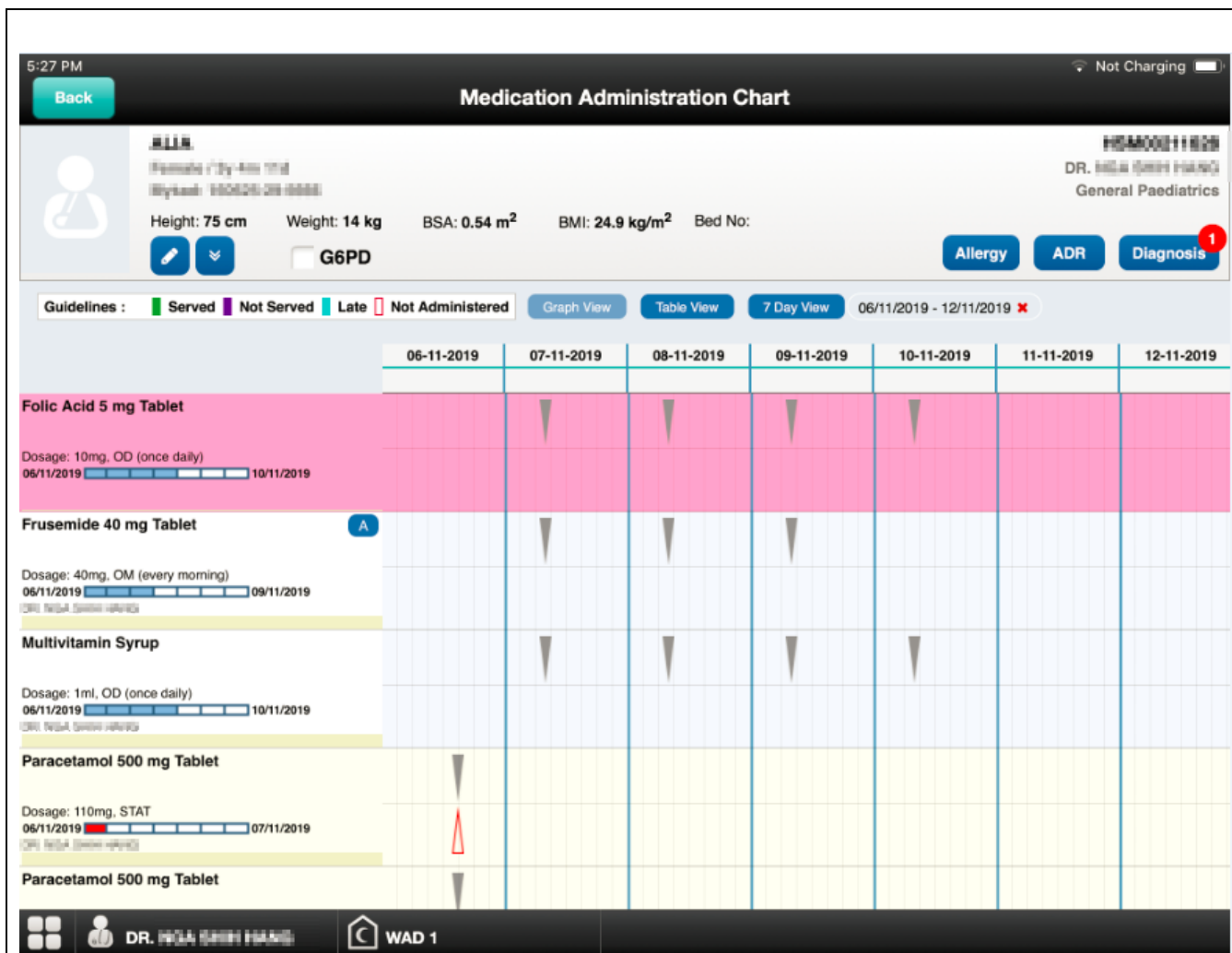
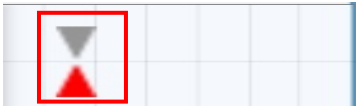


Figure 7.2.3-6 View MAR 7 Days View

View MAR Legend

ICON / SCREENSHOT	DESCRIPTION
	Drug Not Serve
Prednisolone 5 mg Tablet Dosage: 5mg, OD (once daily) 18/10/2016 25/10/2016 DR FARIDAH BTE SULONG @ AB. HADI	Drug prescribe for 7 days

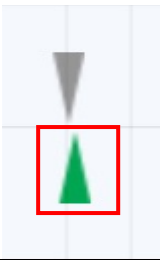
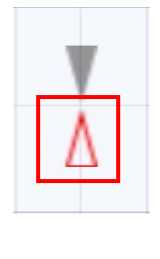
Prednisolone 5 mg Tablet Dosage: 10mg, OD (once daily) 16/10/2016 21/10/2016 DR MUHD FAIZ FAIZUL BIN FAUZI Stock:	Drug to be served remain 3 days
	Drug served
	Drug is not administered
Amlodipine 10 mg Tablet Dosage: 10mg, QM (every morning) 06/11/2019 10/11/2019 DR. NGA SHIH HANG	Dispense medication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

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