



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

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## User Manual MAR-Mobile

<b>Version</b>	<b>: 13<sup>th</sup> Edition</b>
<b>Document ID</b>	<b>: U. MANUAL_MAR_MOBILE</b>



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*Reference ID : U.MANUAL\_MAR MOBILE-13<sup>th</sup> E*

*Application reference: PhIS& CPS v2.6.1*



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## 1.0 Introduction

### 1.1 Overview of PhIS

Pharmacy Information System or better known as PhIS, is a complete and comprehensive system that integrates pharmacy related services geared towards pharmacy excellence. PhIS implementation would transform most of current manual process to electronic system 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 Medication Administration Record (MAR) 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 Administration Record (MAR)
- View MAR

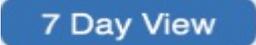
### 1.3 Organized Sections

These are the sections within this document:

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

## 2.0 Application Standard Features

### 2.1 PhIS Legend

Standard Legend			
Medication Order	Medication Order Function	MAR Module	MAR Module Function
	Submit / Log In Button		Edit Height/Weight Button
	Patient Demographic		View Allergy
	View ADR		View Diagnosis
	Logout		Drug Info
	Go to previous screen/function		Refresh current page
	Save and close current screen		View MAR Graph view
	View MAR Table view		View MAR 7 Day view
	Edit record		Delete record
	Copy record		Add new record and edit current record
	Record Due Medication		New Record Notification
	Alternate Drug List		Drug History Record
	View inactive prescription		Settings

## 2.2 Login to PhIS Mobile

To login into the system, perform the steps below:



Figure 2.2-1 PhIS Login Page

### STEP 1

Tap on the  button

### STEP 2

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

### STEP 3

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.

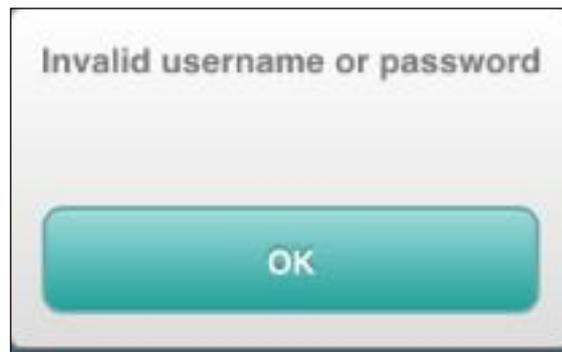


Figure 2.2-2 User does not exist

**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.

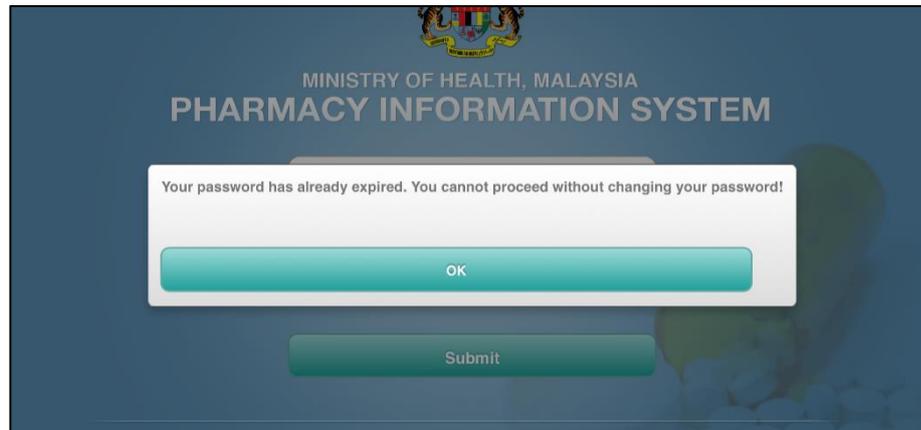


Figure 2.2-3 Enter login details

**Note**

- User must change their password when login to the system for the first time
- User must also change their password once their password has expired
- If it is the user first time to login or password has expired, alert message will be displayed as shown in Figure 2.2-4
  
- Click OK to change the password
- Password must be in alphanumeric, more than 6 characters length and less than 25 characters

- *Alert message will be displayed once user successfully changed the password. User must login using the new password*
- *User can also change the password after login on menu “Change Password”*



**Figure 2.2-4 Alert message to change password**

**STEP 4**

Tap on the  button to log-into the application

### 2.3 PhISMobile application Home Page Overview

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

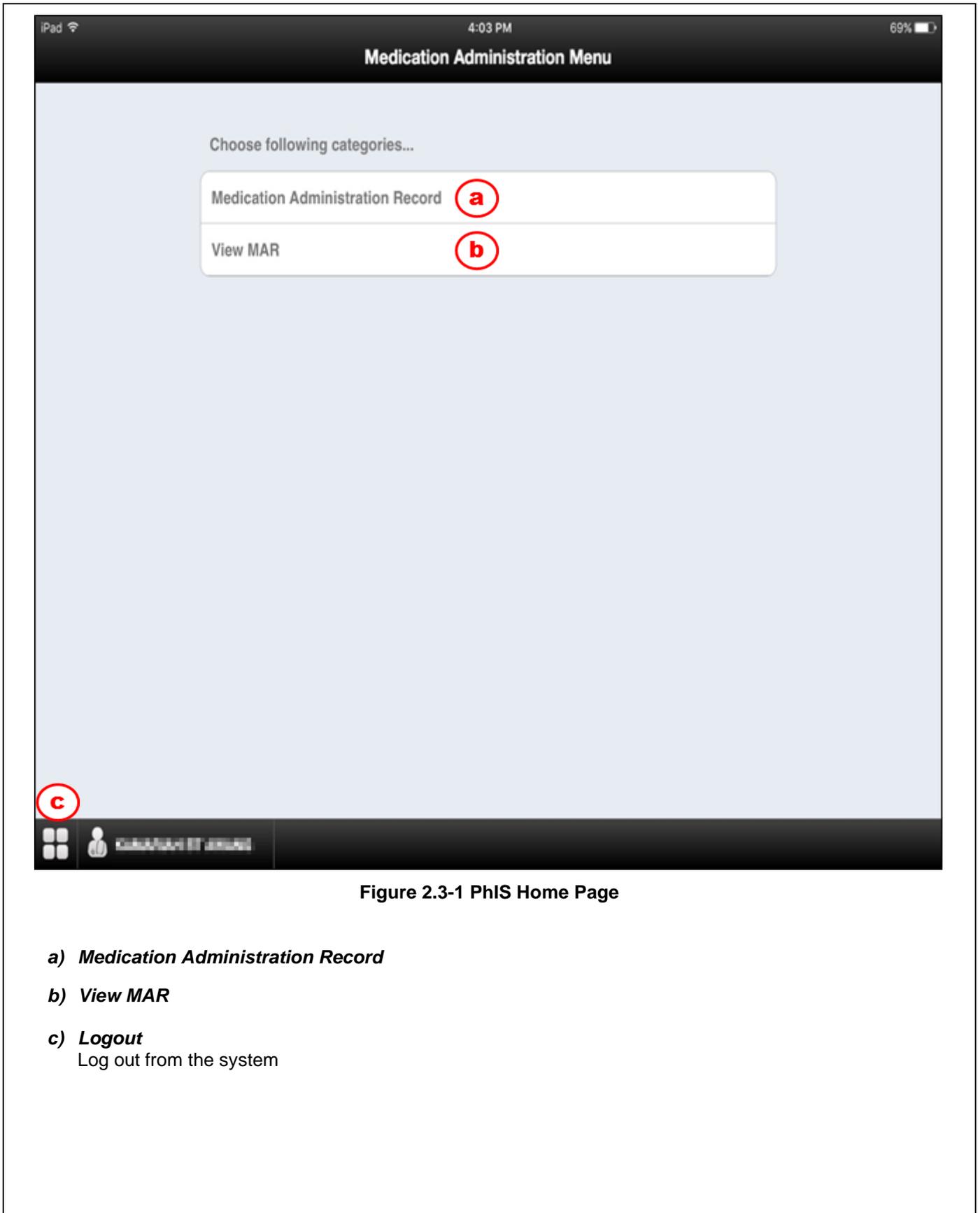


Figure 2.3-1 PhIS Home Page

- a) **Medication Administration Record**
- b) **View MAR**
- c) **Logout**  
Log out from the system

## 3.0 Medication Administration Record

### Overview

The Medication Administration Record module handles all the information regarding the medication as per ward medication chart.

### User Group

This module is intended for Matron, Sister and Staff Nurse

### Functional Diagram

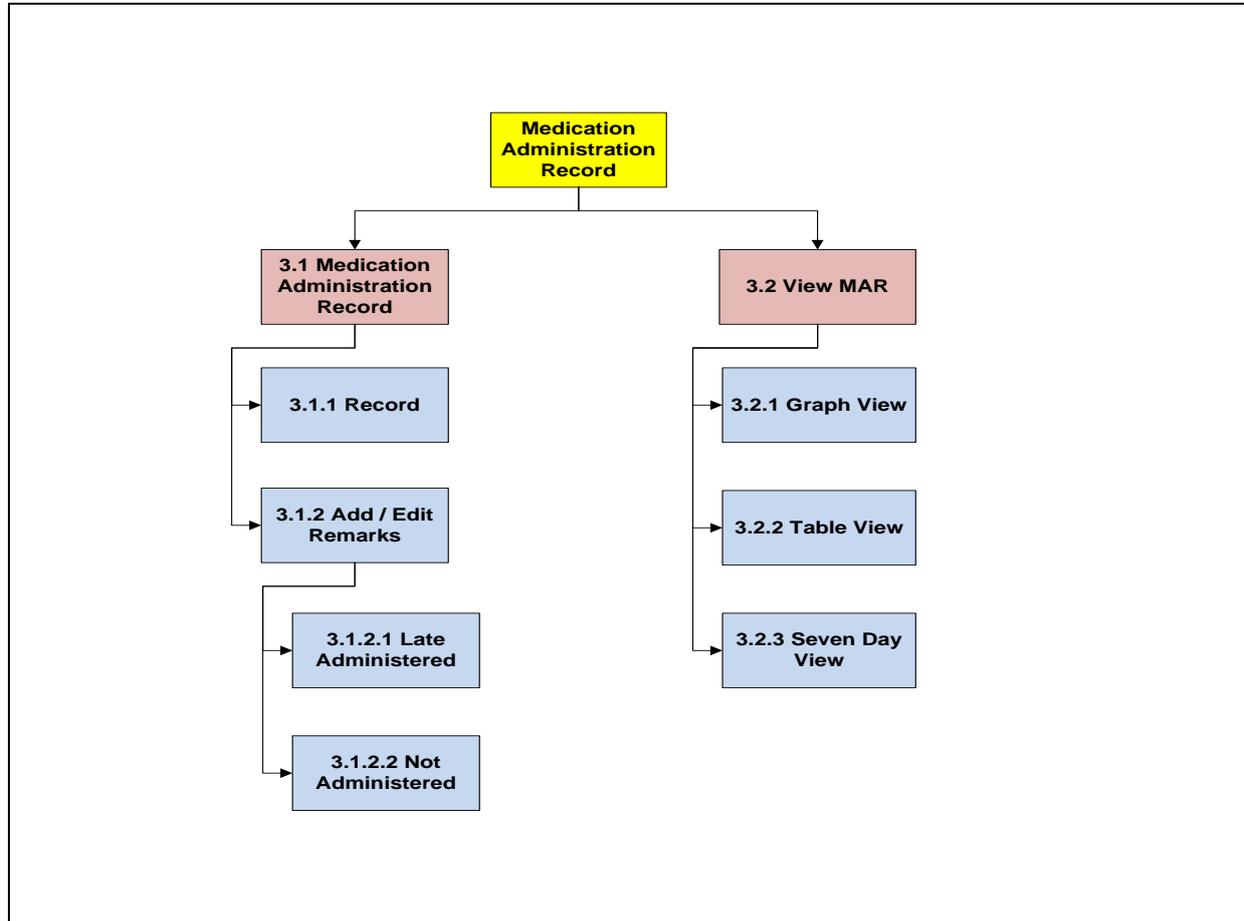


Figure 3.0-1MAR Functional Description

### Functional Description

Medication Administration Record comprises of two (2) main functions:

- **Medication Administration Record**  
To record the medication, serve to patient in ward
- **View MAR**  
To view patient medication chart in ward

### 3.1 Medication Administration Record

#### 3.1.1 Medication Administration Record

Medication administration record is used to record the medication with status **Due** only

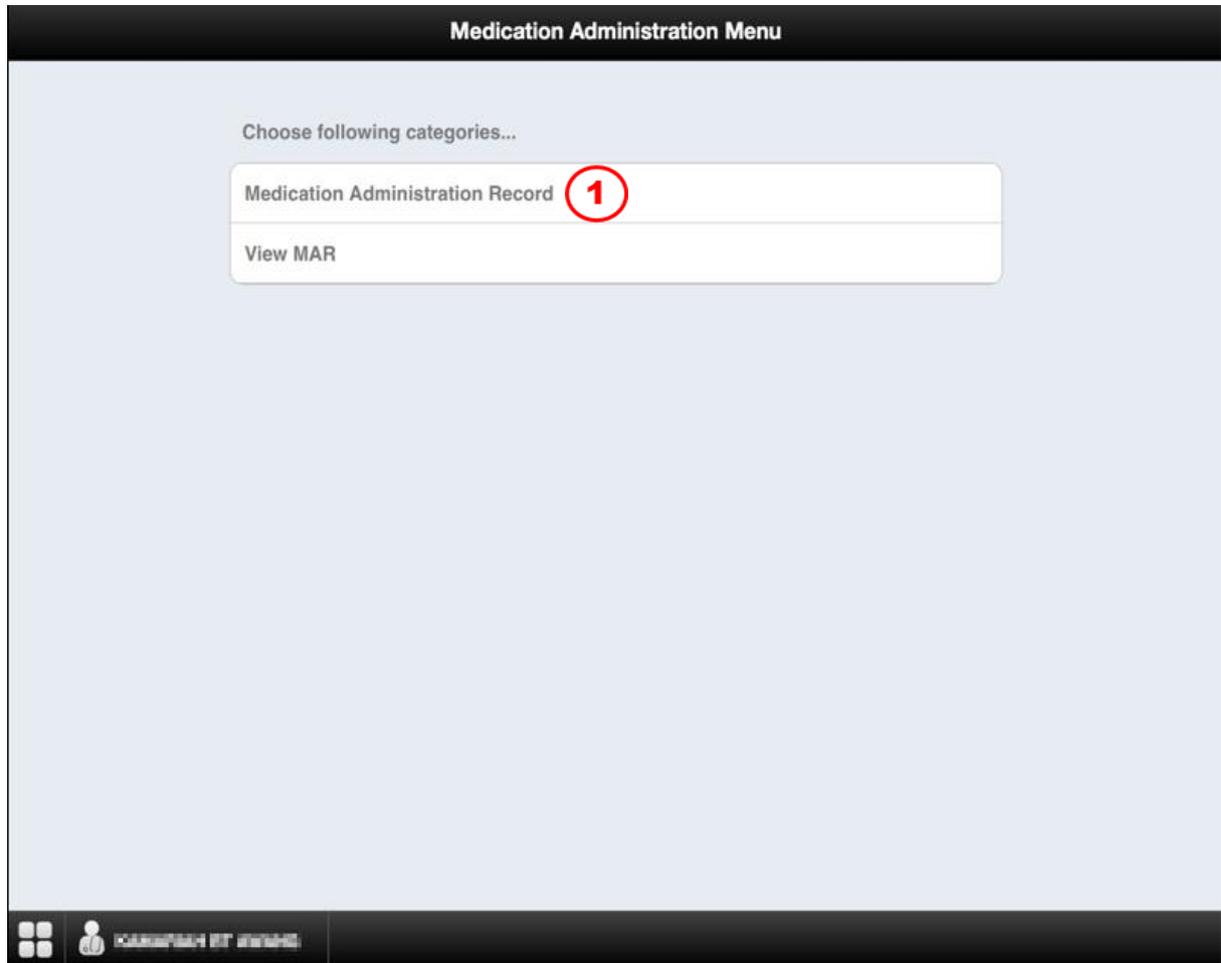


Figure 3.1.1-1 MAR Listing Page

#### STEP 1

Tap on the *Medication Administration Record*

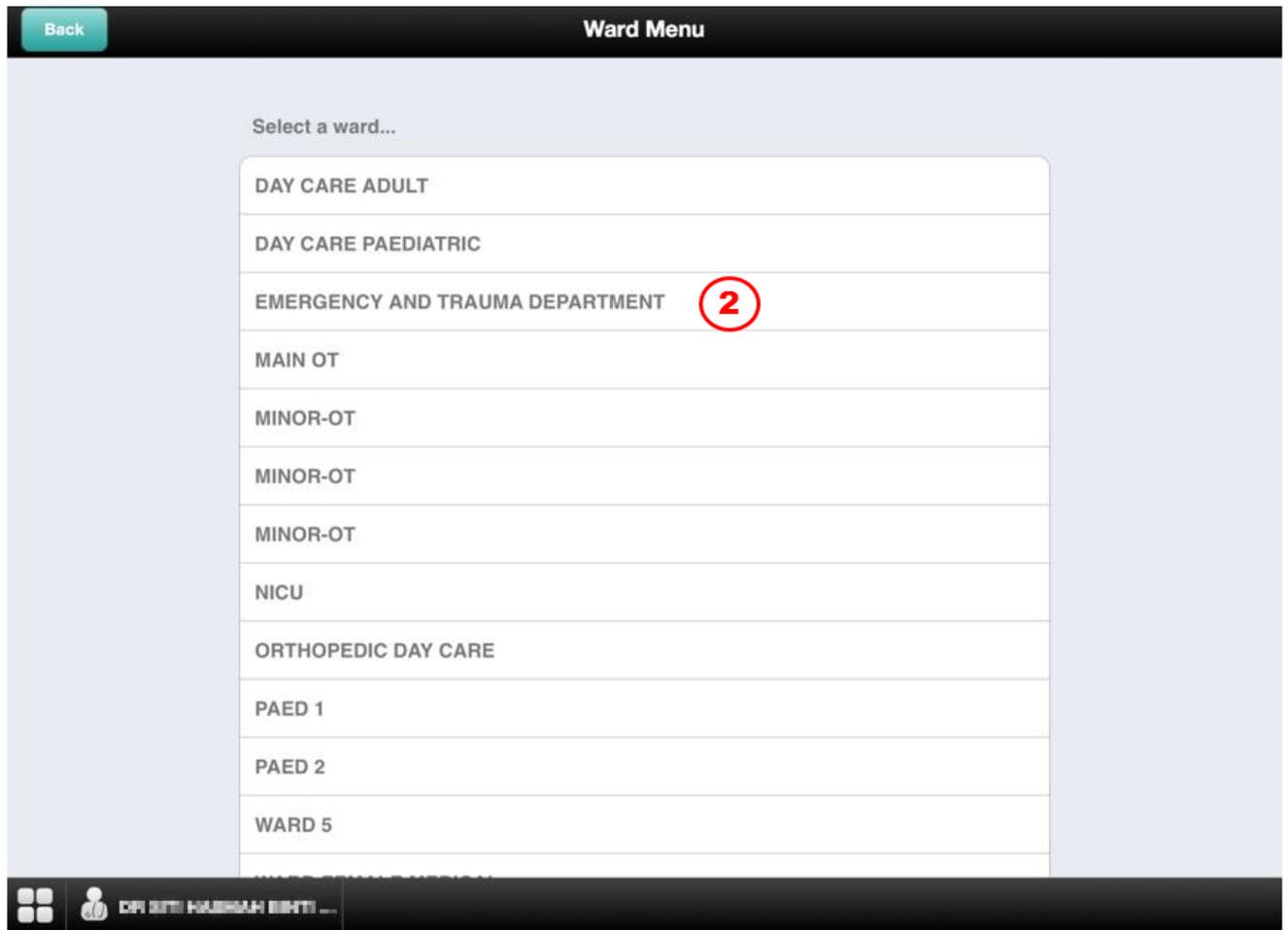


Figure 3.1.1-2 Location Screen Listing Page

**STEP 2**

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

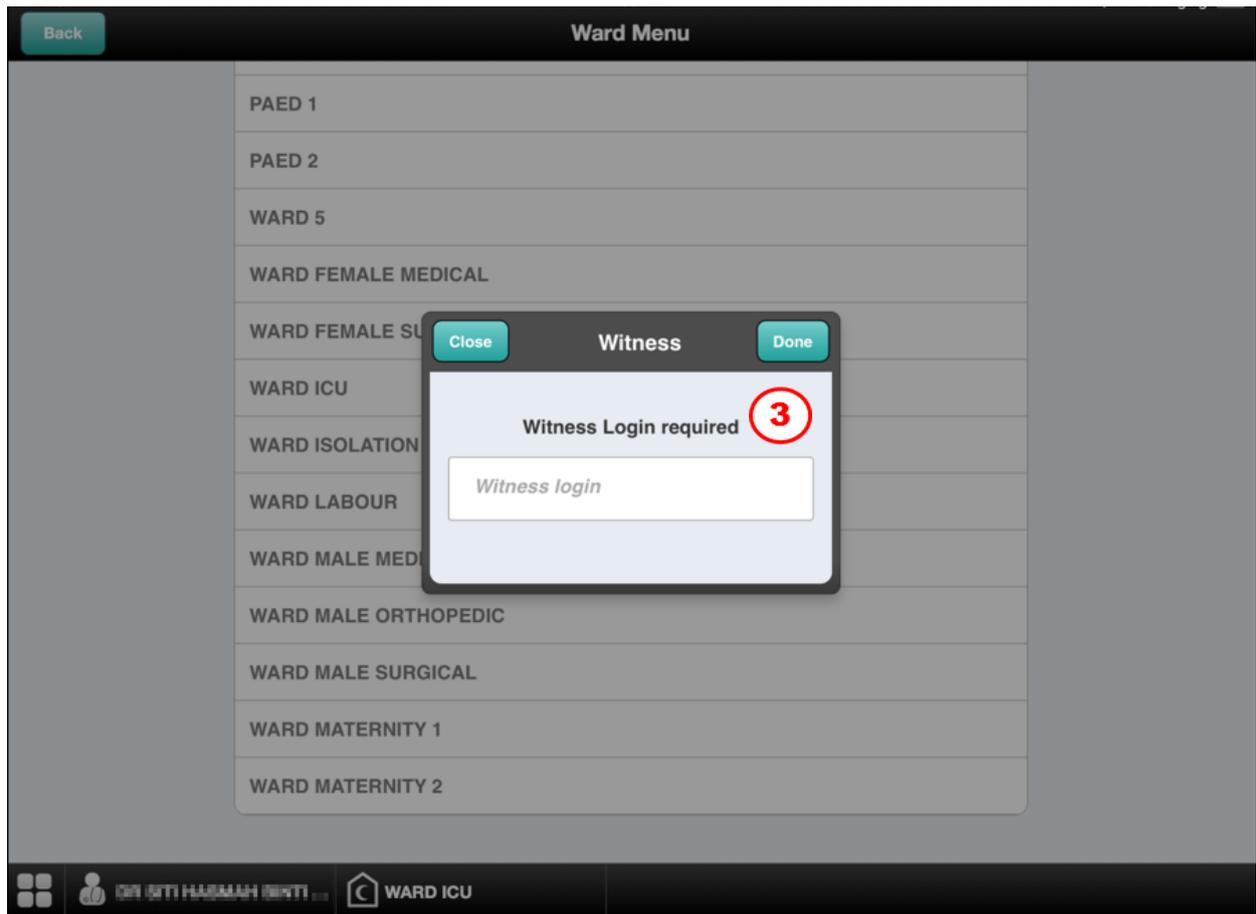


Figure 3.1.1-3 Witness Login Page

**STEP 3**

Enter the PhIS Login ID in the **Witness Login** pop up screen

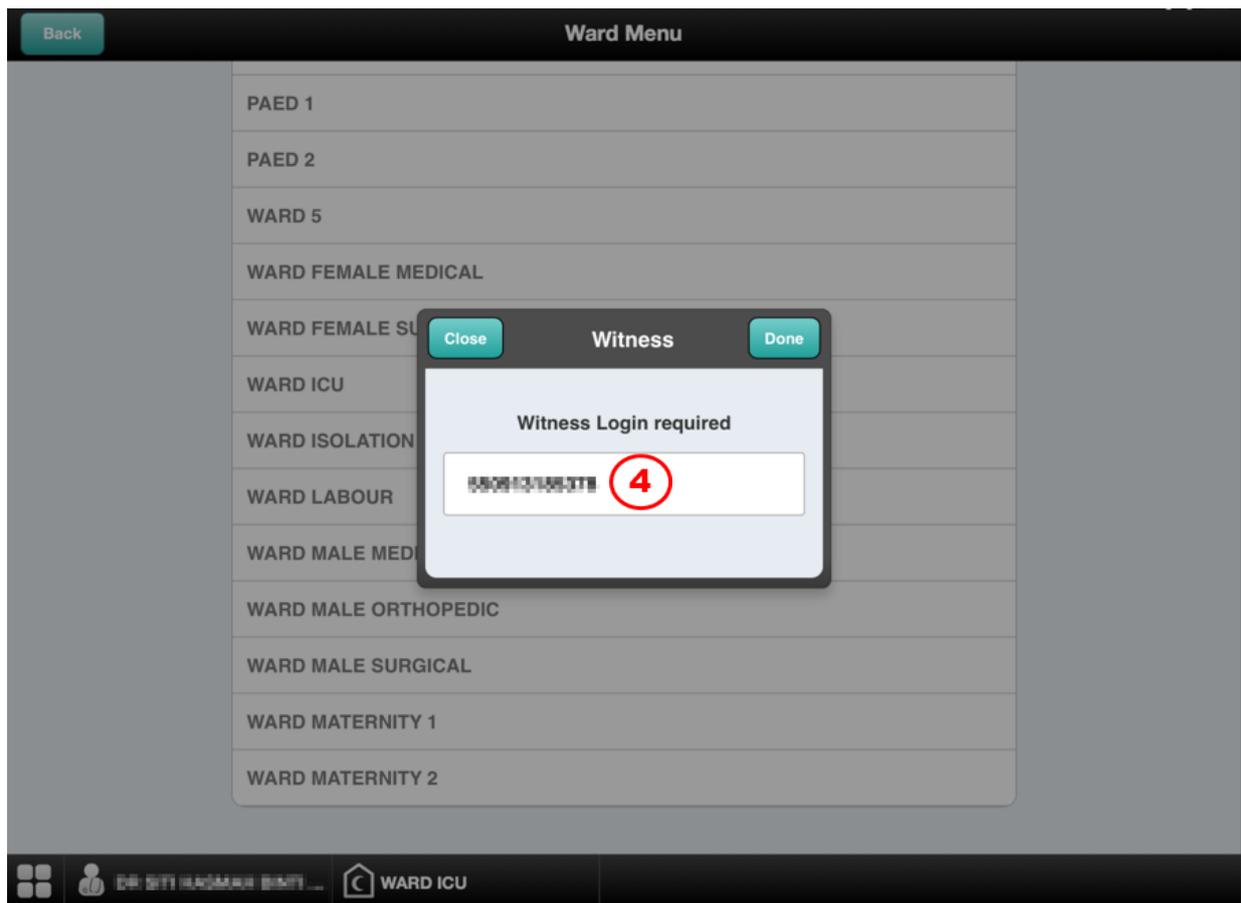


Figure 3.1.1-4 Witness Login Page

**STEP 4**

Tap on the  button

**Note**

- Witness must have system access login.
- Witness must be different with user login.
- Witness shall be from the same discipline and the grade of Jururawat must be U29 and above.
- Witness does not require to login for every patient.

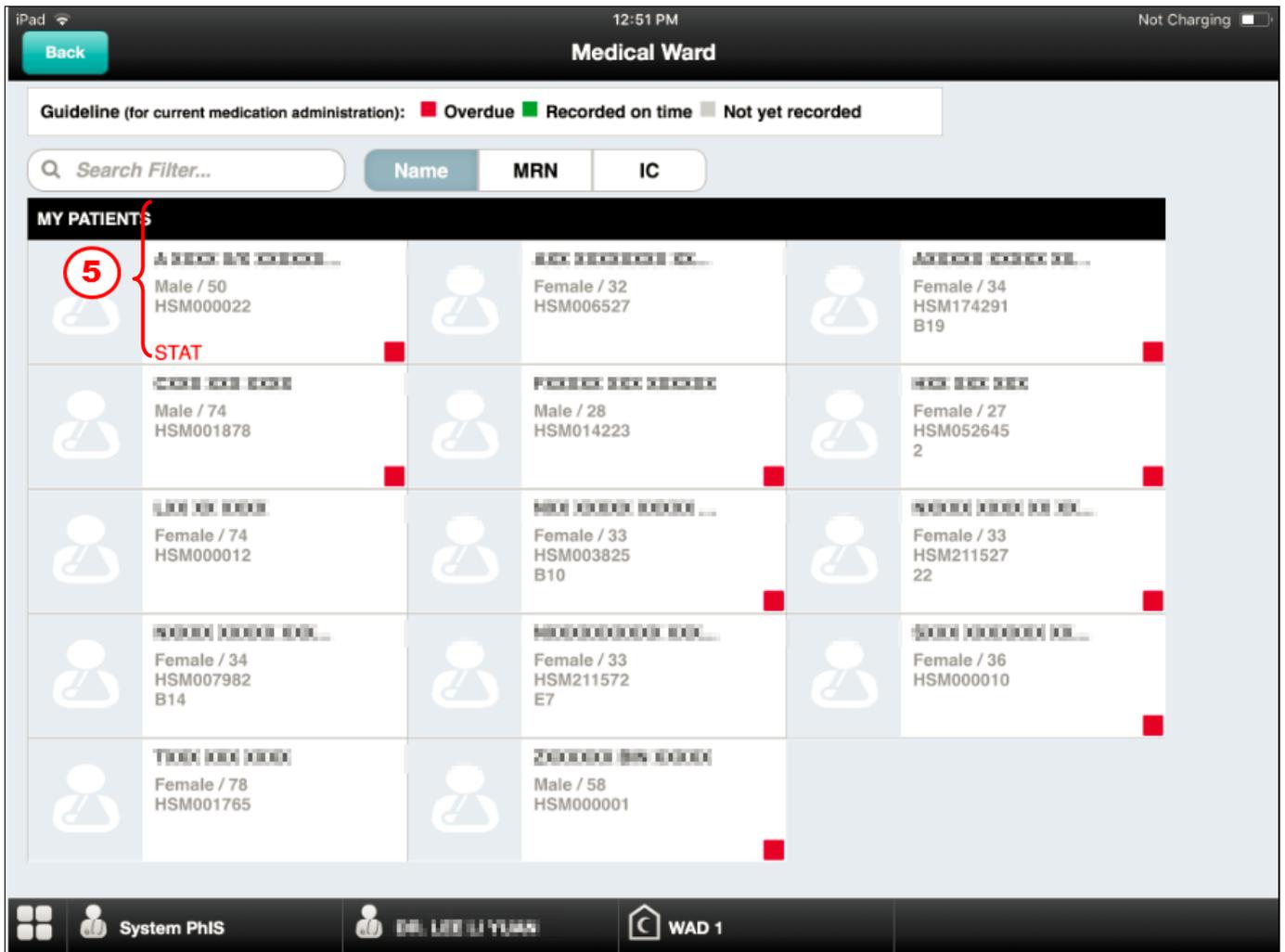


Figure 3.1.1-5 Patient Listing Page

**STEP 5**

Tap on selected patient name or search the patient by using  field

- Various search criteria are provided as below:

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

Table3.1.1-1

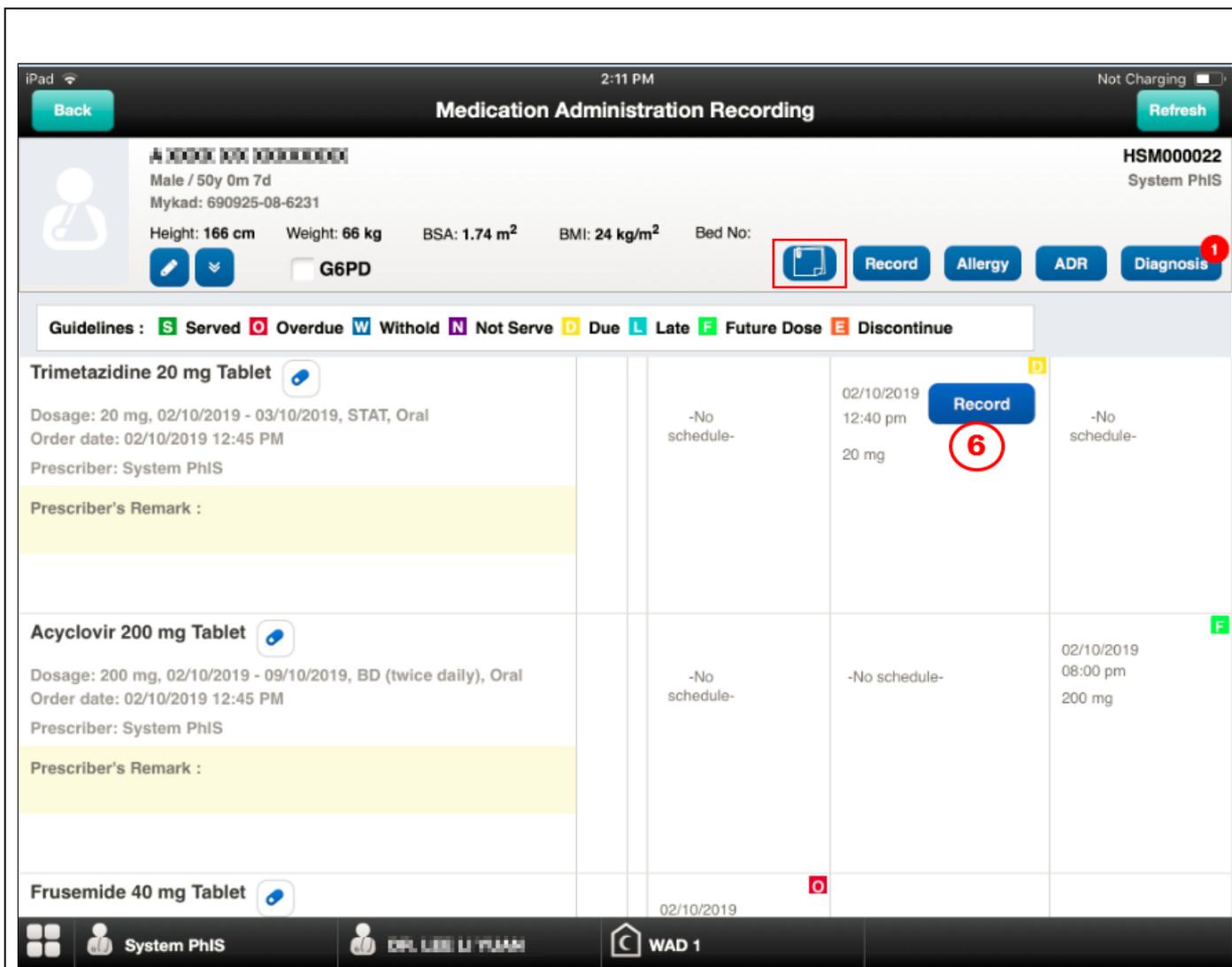


Figure 3.1.1-6 Medication Administration Recording

**STEP 6**

Tap on the  button and system will display as Figure 3.1.1-6

**Note**

- User able to see the remark by click  button as per Figure 3.1.1-6. The remark entered by pharmacist through web application in new screen. However, this remark records are shown by patient and not by specific drugs.

Pharmacist Remarks					
Prescription Number	Drug Name	Pharmacist Remark	Date and Time	Stage	Pharmacist Name
MMW0000954726	Diclofenac Sodium 50 mg Tablet	entered by pharmacist in web app for diclofenac sodium 50 mg	07/01/2019 12:55:48	Screening	
MMW0000954726	Ampicillin 500mg Injection	remarks entered from web app for ampicillin	07/01/2019 12:55:18	Screening	

Figure 3.1.1-7 Pharmacist Remarks

- Pharmacist name will appear only after user successfully Verify, Prepared or Dispensed the record. For example, If pharmacist entered the remarks before click on Verify button and at the same time, mobile user open the Remarks in iPad, pharmacist name will be shown blank as per Figure 3.1.1-7. Only after they Verify the order, name will appear when mobile user open the record.

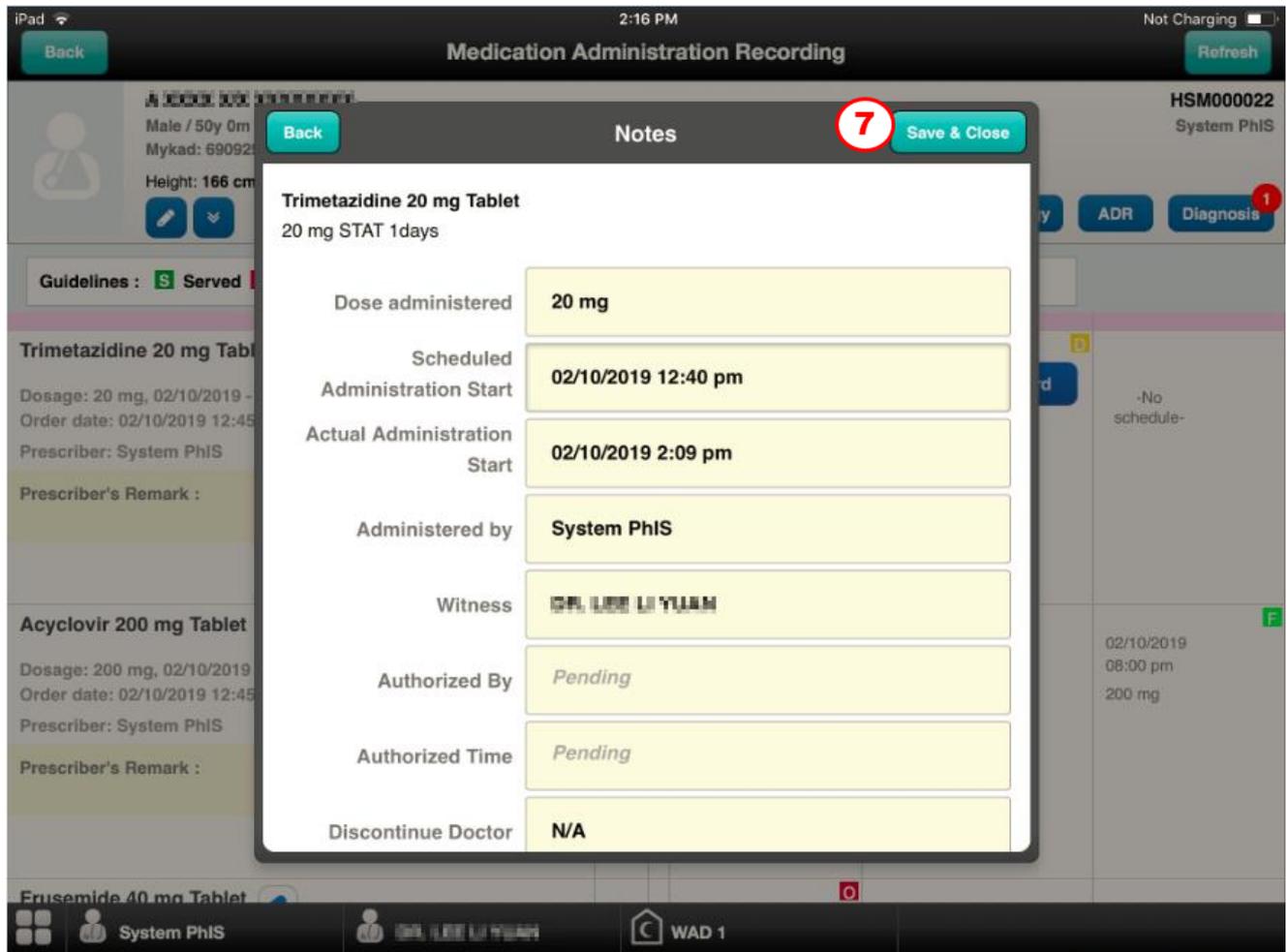
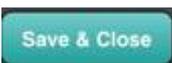
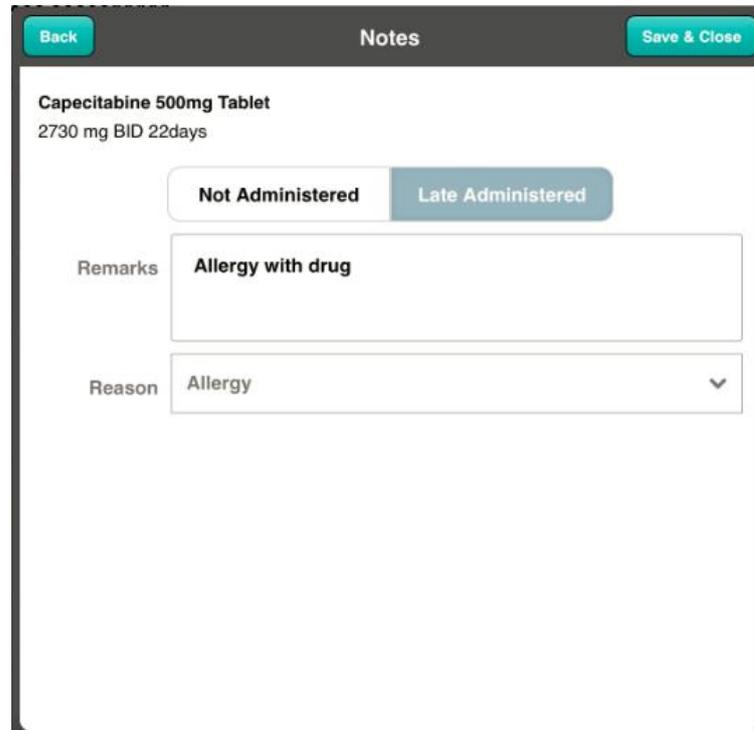


Figure 3.1.1-8 Medication Administration Recording

**STEP 7**

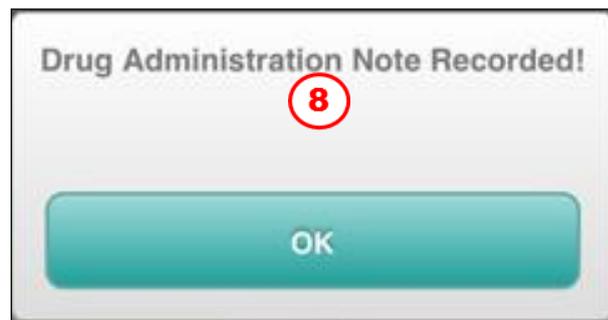
Tap on the  button to save the record

**Note**



**Figure 3.1.1-9 Medication Administration Recording**

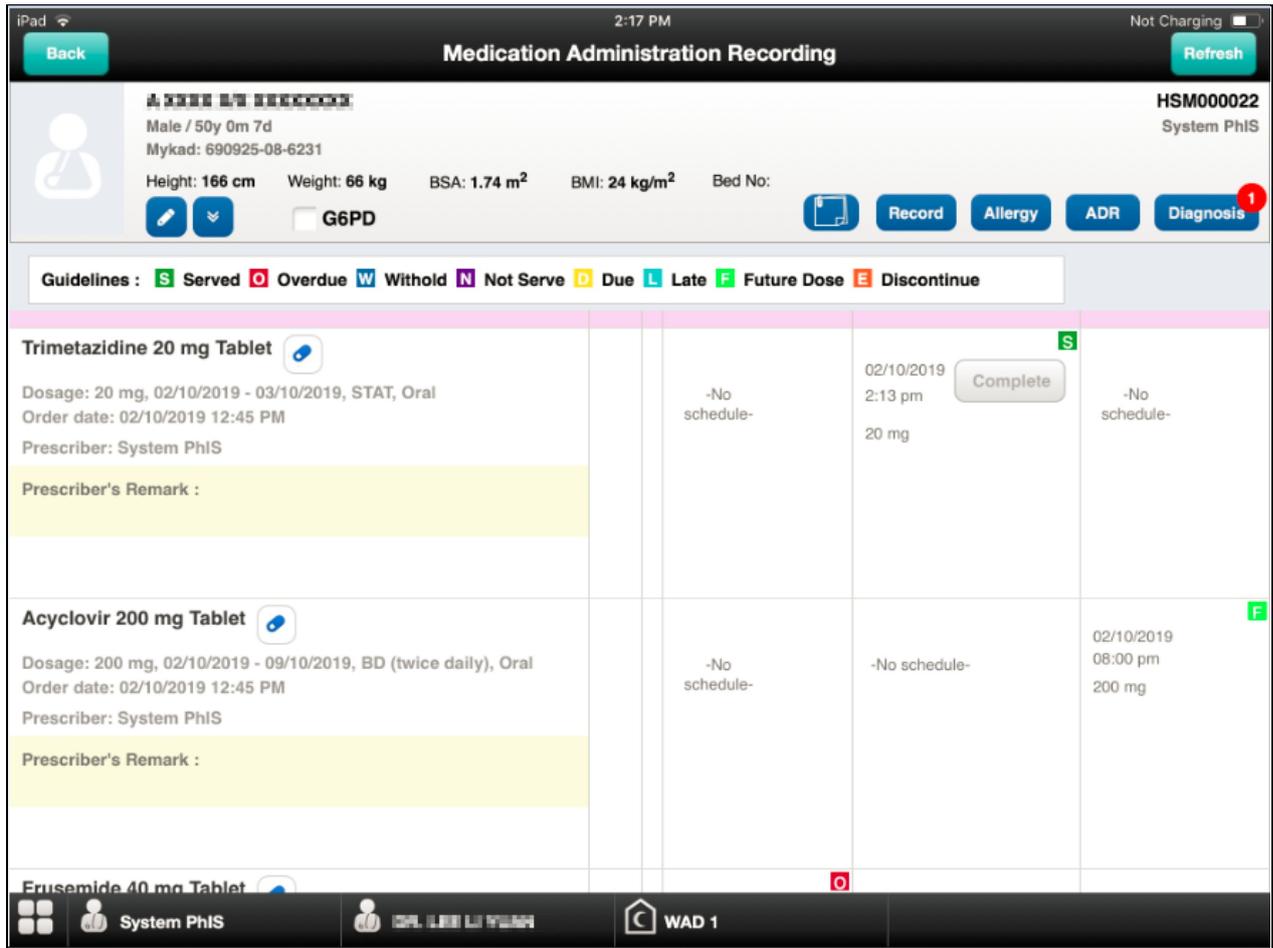
User able to record medication with status Due and Add / Edit Remarks under “No Administered” type only as display in Figure 3.1.1-9



**Figure 3.1.1-10 Medication Administration Recording**

**STEP 8**

Tap on the  button and system will display as Figure 3.1.1-10



**Medication Administration Recording**

Back Refresh

Male / 50y 0m 7d  
Mykad: 690925-08-6231  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
G6PD

HSM000022  
System PhIS

Record Allergy ADR Diagnosis

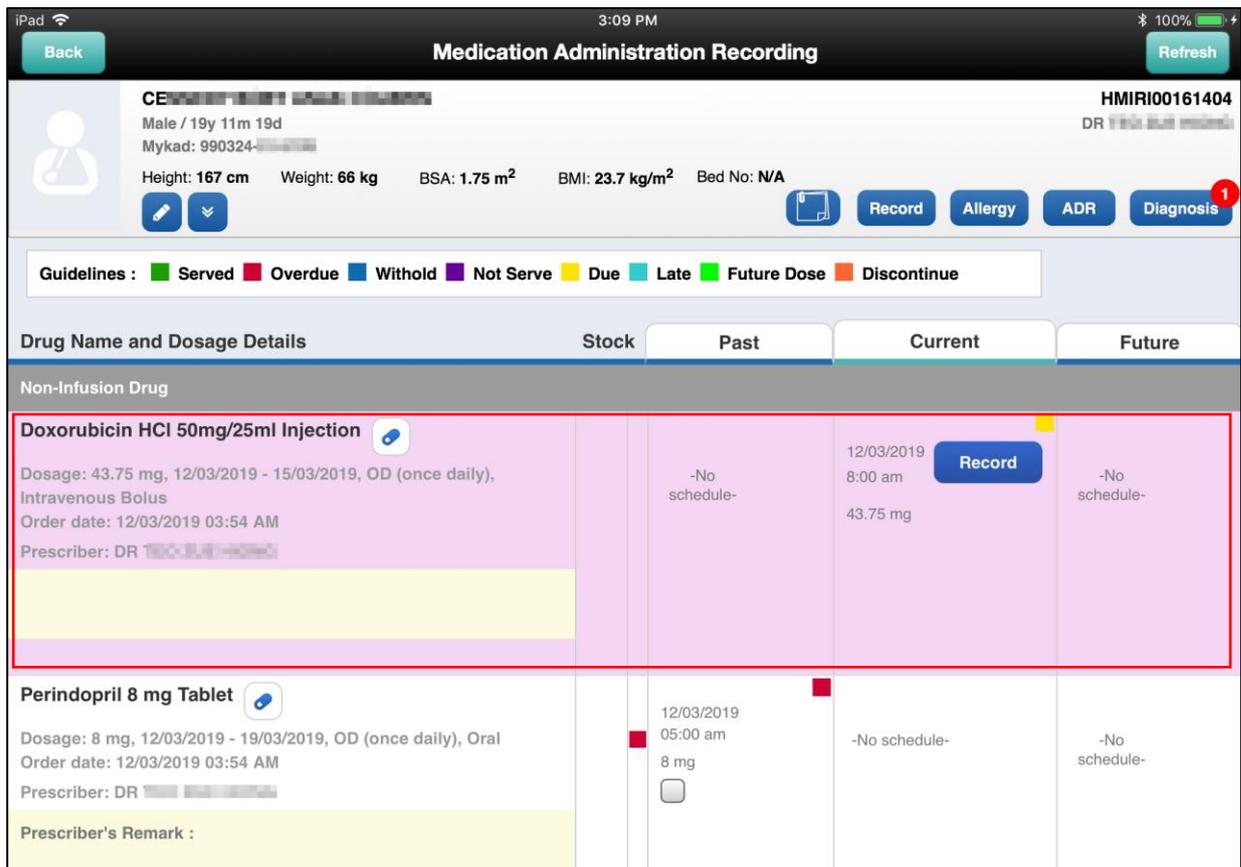
Guidelines : **S** Served **O** Overdue **W** Withold **N** Not Serve **D** Due **L** Late **F** Future Dose **E** Discontinue

<b>Trimetazidine 20 mg Tablet</b> Dosage: 20 mg, 02/10/2019 - 03/10/2019, STAT, Oral Order date: 02/10/2019 12:45 PM Prescriber: System PhIS Prescriber's Remark :	-No schedule-	02/10/2019 2:13 pm 20 mg Complete	-No schedule- <b>S</b>
<b>Acyclovir 200 mg Tablet</b> Dosage: 200 mg, 02/10/2019 - 09/10/2019, BD (twice daily), Oral Order date: 02/10/2019 12:45 PM Prescriber: System PhIS Prescriber's Remark :	-No schedule-	-No schedule-	02/10/2019 08:00 pm 200 mg <b>F</b>
<b>Furosemide 40 mg Tablet</b>			<b>O</b>

System PhIS WAD 1

Figure 3.1.1-11 Medication Administration Recording

**Note**



**Medication Administration Recording**

CE [REDACTED] HMIRI00161404  
 Male / 19y 11m 19d  
 Mykad: 990324-[REDACTED]  
 Height: 167 cm Weight: 66 kg BSA: 1.75 m<sup>2</sup> BMI: 23.7 kg/m<sup>2</sup> Bed No: N/A

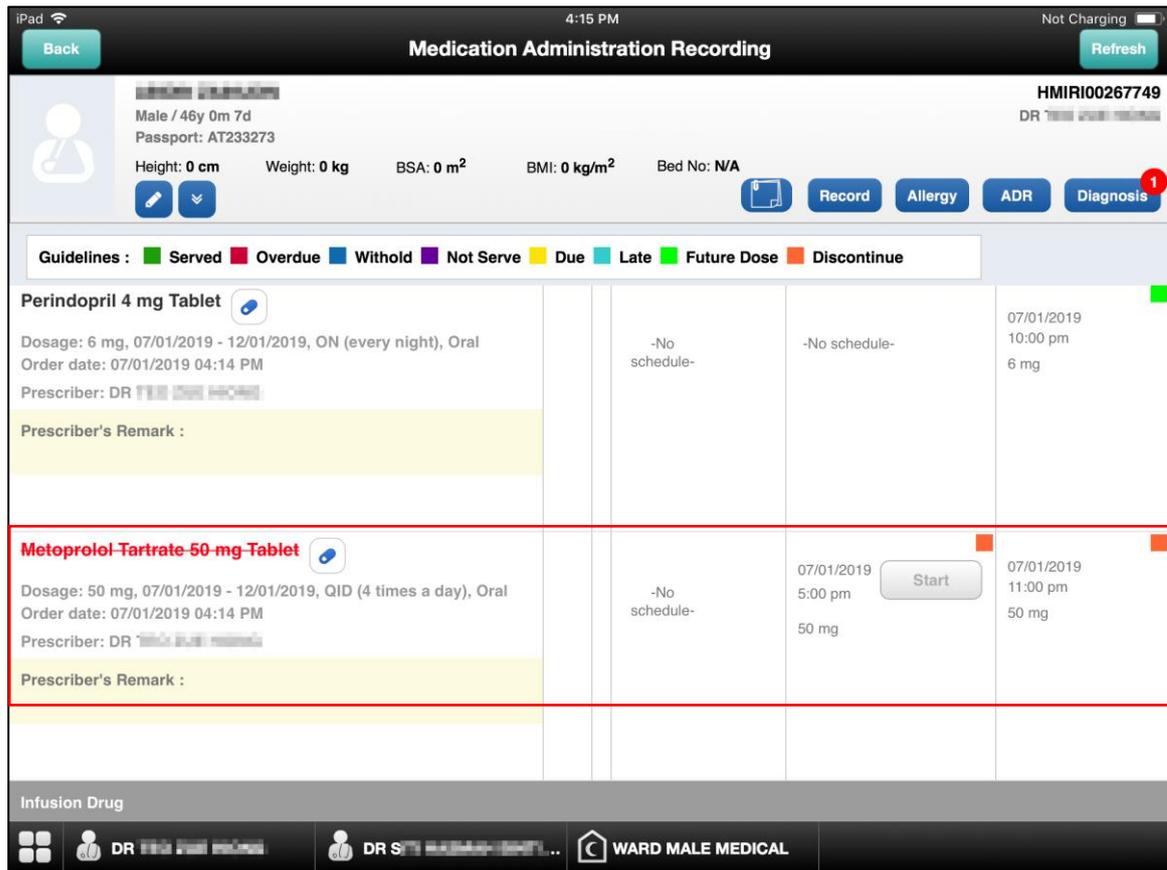
Guidelines : ■ Served ■ Overdue ■ Withhold ■ Not Serve ■ Due ■ Late ■ Future Dose ■ Discontinue

Drug Name and Dosage Details	Stock	Past	Current	Future
<b>Doxorubicin HCl 50mg/25ml Injection</b> Dosage: 43.75 mg, 12/03/2019 - 15/03/2019, OD (once daily), Intravenous Bolus Order date: 12/03/2019 03:54 AM Prescriber: DR [REDACTED]		-No schedule-	12/03/2019 8:00 am 43.75 mg	-No schedule-
<b>Perindopril 8 mg Tablet</b> Dosage: 8 mg, 12/03/2019 - 19/03/2019, OD (once daily), Oral Order date: 12/03/2019 03:54 AM Prescriber: DR [REDACTED] Prescriber's Remark :		12/03/2019 05:00 am 8 mg	-No schedule-	-No schedule-

**Figure 3.1.1-12 Medication Administration Recording**

- User able to see the CDR order as per Figure 3.1.1-12
- Drug display on top of normal order and highlight with purple background color.
- The CDR order were sorted in alphabetical order.
- Arrangement of drugs with, active drug then followed by inactive drugs.
- Different color highlighted for each drug rows. Such as white/Gray for normal, IV, PN order; light purple for CDR order; yellow for wardstock drug; and pink for own medication drug.
- Arrangement of normal drug and CDR drug where for CDR, it will be group on top and normal order will place below CDR group as per Figure 3.1.1-12.. Sorting still follow alphabetical and active drug first then followed by inactive drugs.

**Note**



**Medication Administration Recording**

Male / 46y 0m 7d  
Passport: AT233273  
Height: 0 cm Weight: 0 kg BSA: 0 m<sup>2</sup> BMI: 0 kg/m<sup>2</sup> Bed No: N/A

HMIRI00267749  
DR [Name]

Guidelines : ■ Served ■ Overdue ■ Withhold ■ Not Serve ■ Due ■ Late ■ Future Dose ■ Discontinue

<b>Perindopril 4 mg Tablet</b>	-No schedule-	-No schedule-	07/01/2019 10:00 pm 6 mg
<b>Metoprolol-Tartrate 50 mg-Tablet</b>	-No schedule-	07/01/2019 5:00 pm 50 mg	07/01/2019 11:00 pm 50 mg

Infusion Drug

DR [Name] | DR [Name] | WARD MALE MEDICAL

**Figure 3.1.1-13 Medication Administration Recording**

- User able to see the discontinue order as per Figure 3.1.1-13
- Drug display on coloum order and stirke through in red.
- Arrangement of drugs with active drug then followed by inactive drugs.
- MAR Dialog status updated to Discontinue and stirke through in red as per Figure above after prescriber stop the medication for patient.

### 3.1.2 Ward Stok

This function is used to administer the medication to patient within the time range (on time) using ward stock.

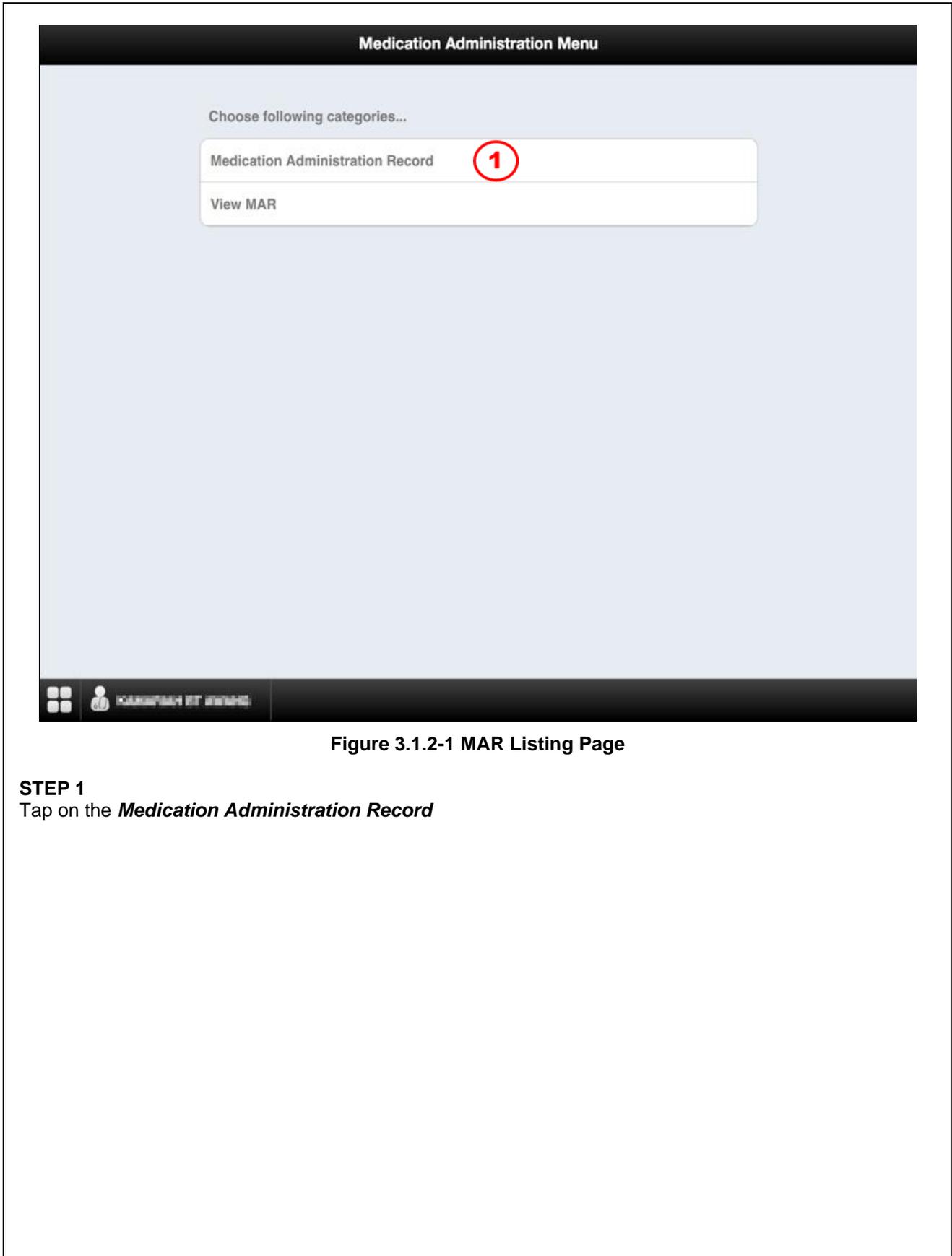


Figure 3.1.2-1 MAR Listing Page

#### STEP 1

Tap on the *Medication Administration Record*

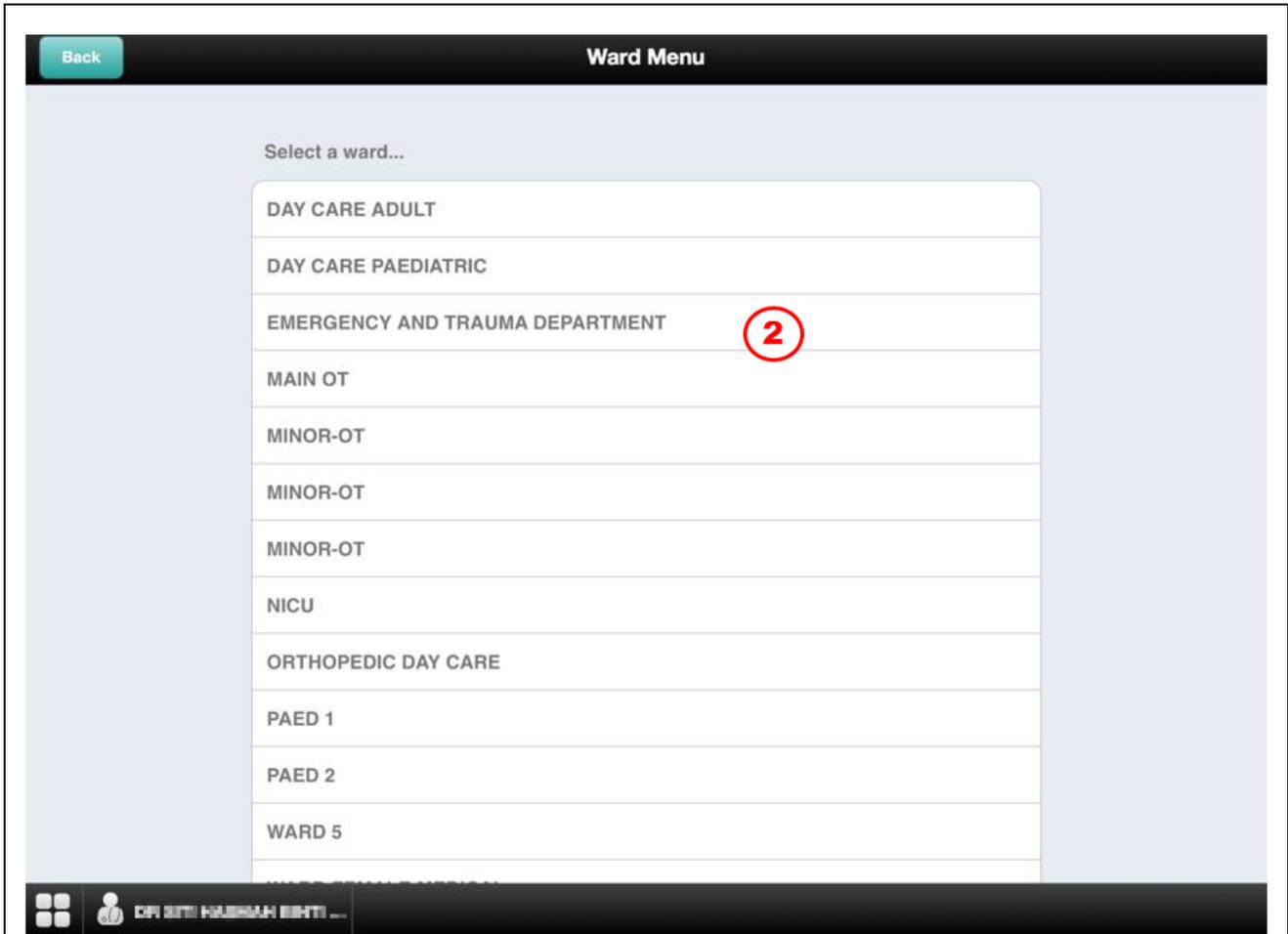


Figure 3.1.2-2 Location Screen Listing Page

**STEP 2**

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

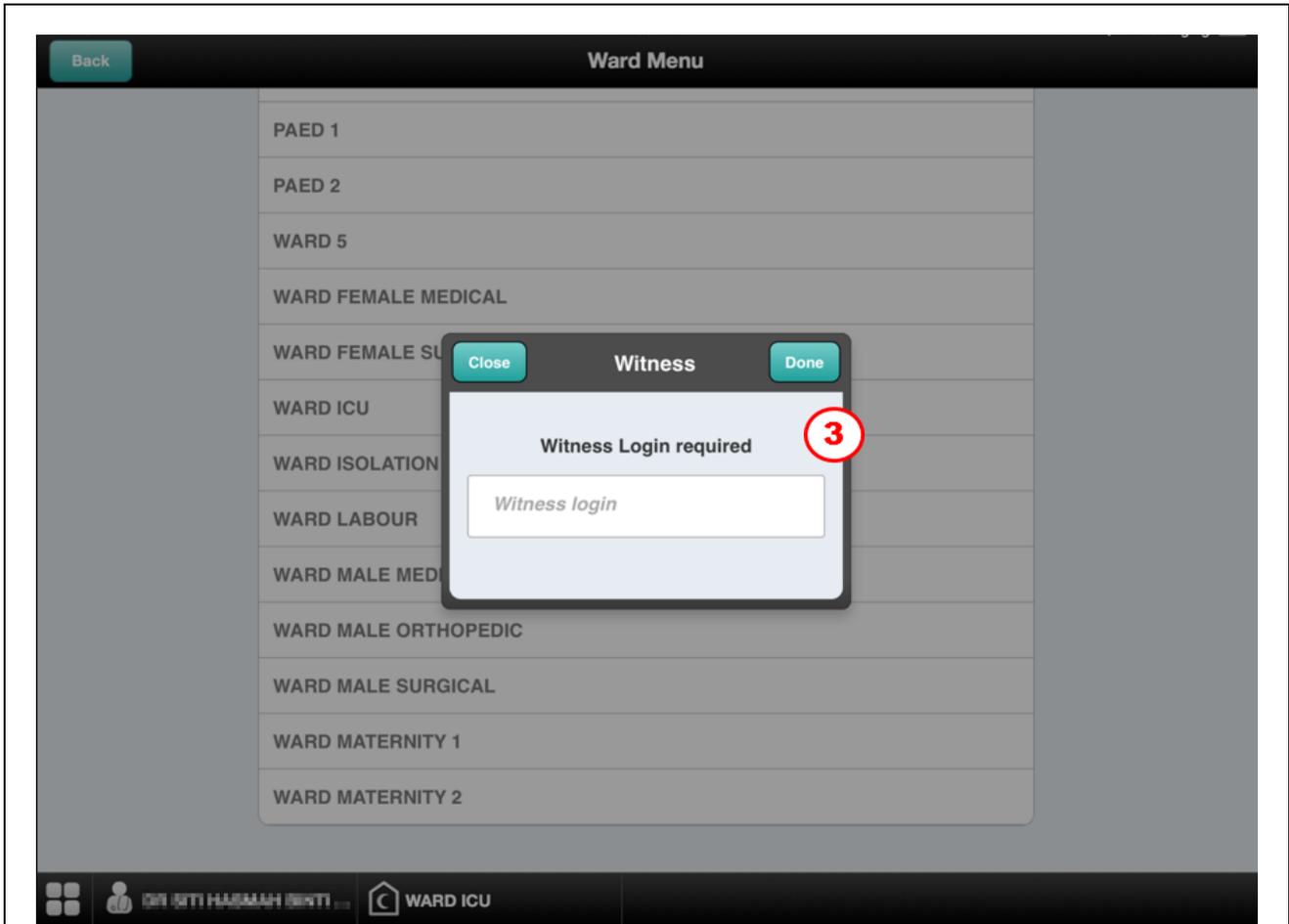


Figure 3.1.2-3 Witness Login Page

### STEP 3

Enter the PhIS Login ID in the **Witness Login** pop up screen

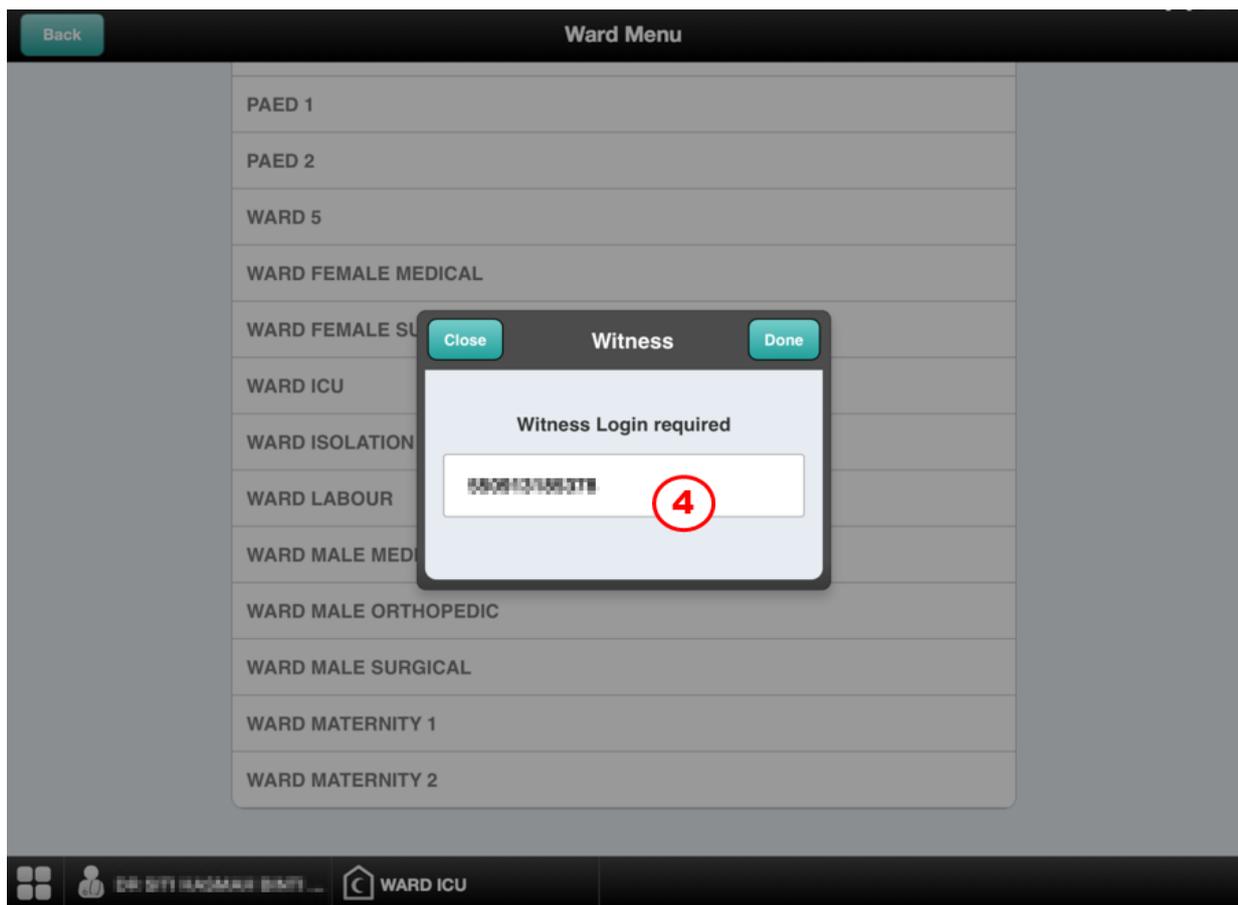


Figure 3.1.2-4 Witness Login Page

#### STEP 4

Tap on the  button

#### Note

- *Witness must have system access login.*
- *Witness must be different with user login.*
- *Witness shall be from the same discipline and the grade of Jururawat must be U29 and above.*
- *Witness does not require to login for every patient.*

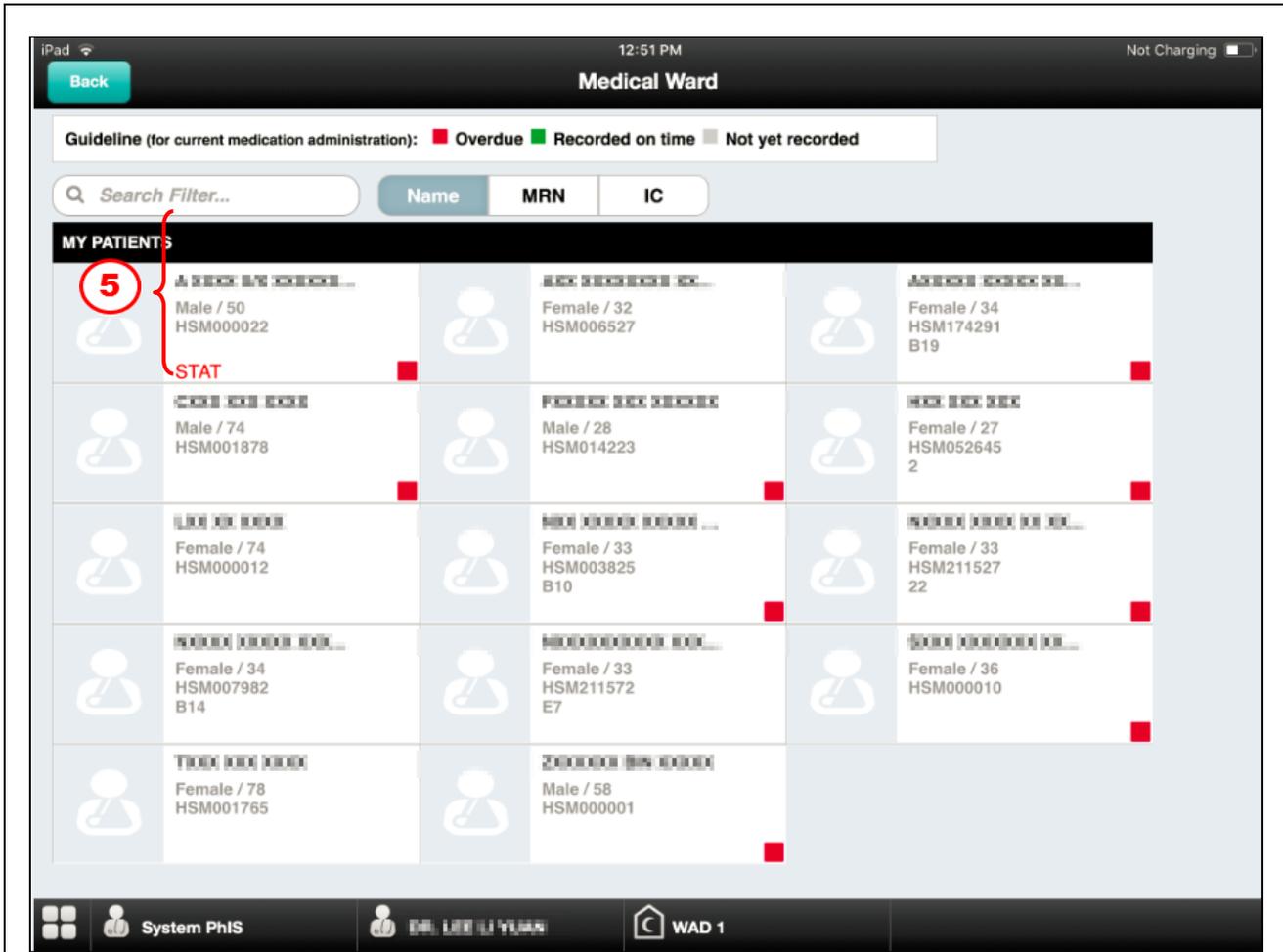


Figure 3.1.2-5 Patient Listing Page

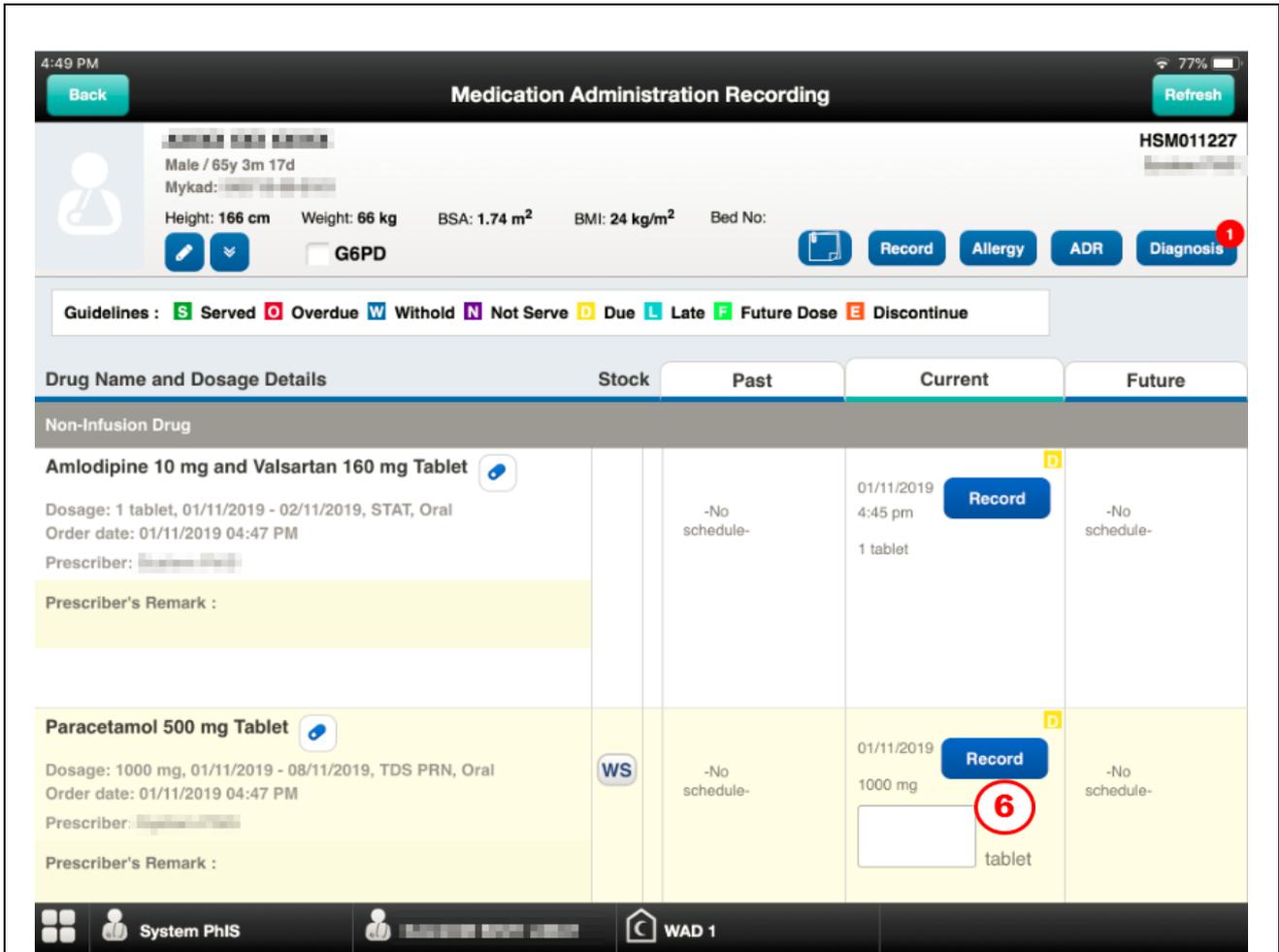
**STEP 5**

Tap on selected patient name or search the patient by using  field

- Various search criteria are provided as below:

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

Table3.1.1-1



The screenshot displays the 'Medication Administration Recording' screen. At the top, there is a 'Back' button on the left and a 'Refresh' button on the right. Below this, patient information is shown: 'Male / 65y 3m 17d', 'Mykad: [redacted]', 'Height: 166 cm', 'Weight: 66 kg', 'BSA: 1.74 m<sup>2</sup>', 'BMI: 24 kg/m<sup>2</sup>', and 'Bed No: [redacted]'. There are also buttons for 'Record', 'Allergy', 'ADR', and 'Diagnosis' (with a red notification badge '1'). A 'G6PD' checkbox is visible. Below the patient info, a legend for 'Guidelines' includes: S Served, O Overdue, W Withhold, N Not Serve, D Due, L Late, F Future Dose, and E Discontinue. The main area is a table with columns for 'Drug Name and Dosage Details', 'Stock', 'Past', 'Current', and 'Future'. Two medication orders are listed: 'Amlodipine 10 mg and Valsartan 160 mg Tablet' and 'Paracetamol 500 mg Tablet'. The 'Paracetamol' row has a 'WS' button in the 'Stock' column and a 'Record' button in the 'Current' column. A red circle with the number '6' is drawn around the 'Record' button for Paracetamol. The bottom navigation bar shows 'System PhIS', a user profile icon, and 'WAD 1'.

Figure 3.1.2-6 Patient Order Details

**STEP 6**

Click on allocate the quantity and tap on the  button and system will display as Figure 3.1.2-6

- Click on  button to allocate quantity and item batch details appear as per Figure 3.1.2-6

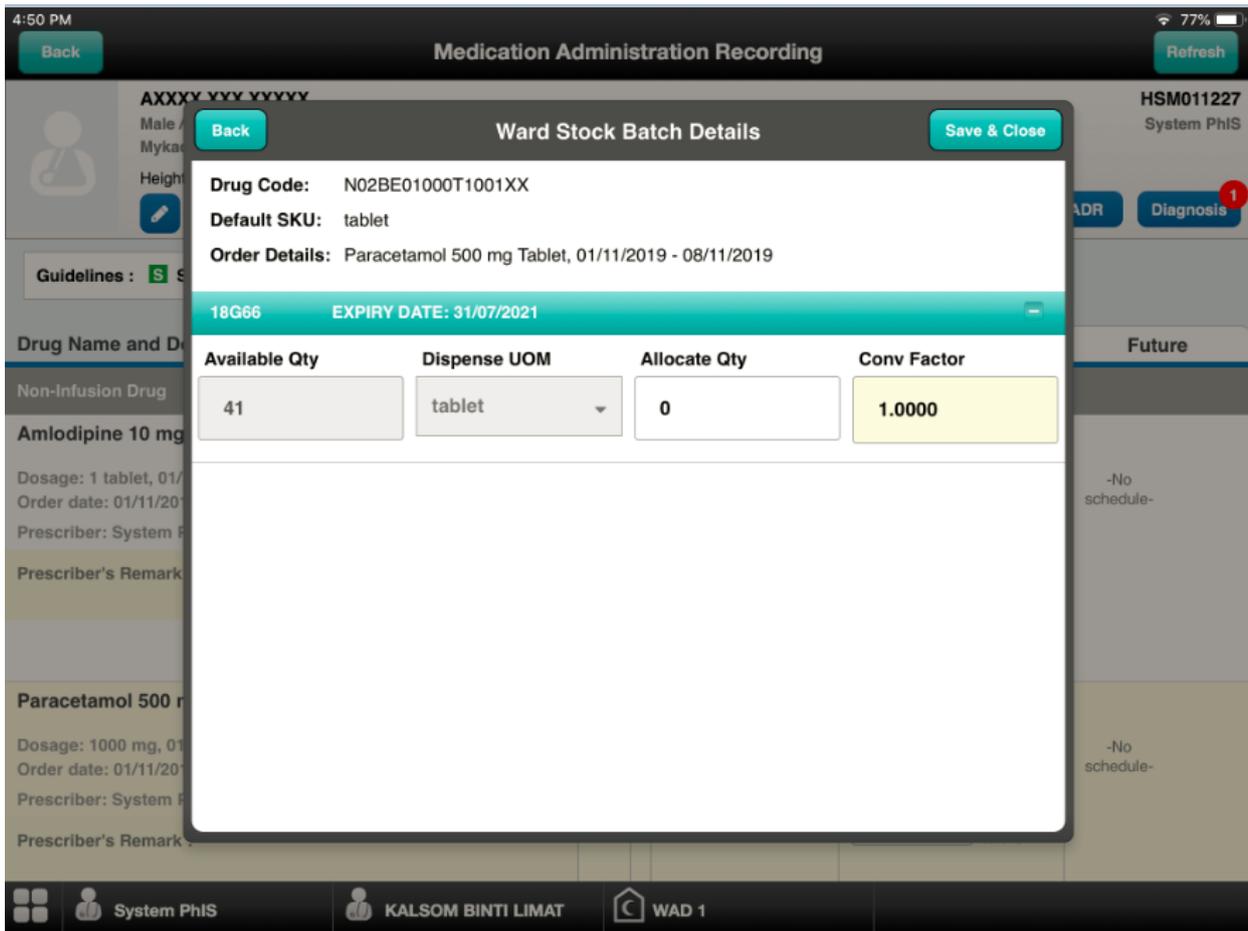
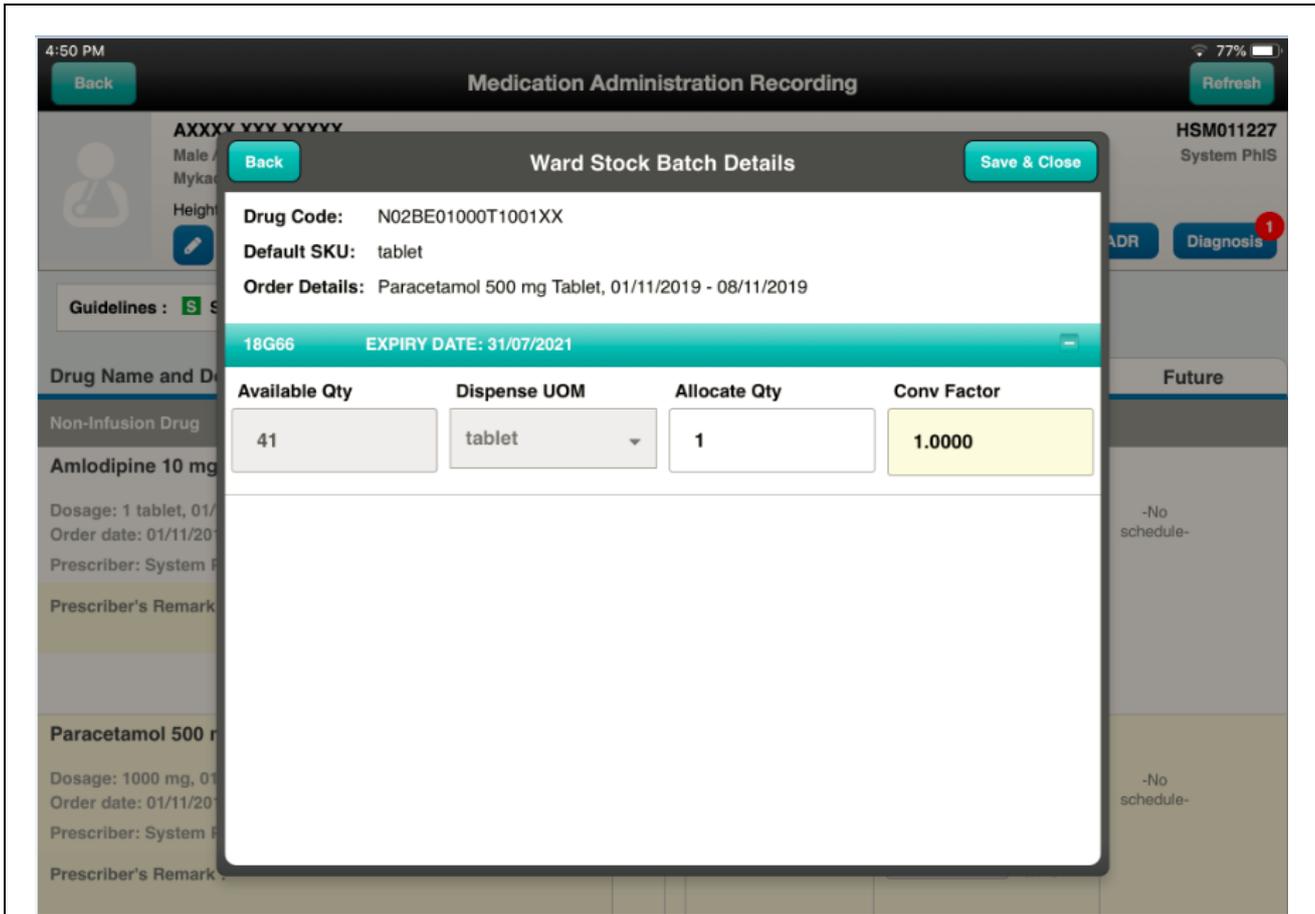
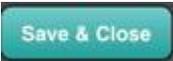


Figure 3.1.2-7 Drug Batch details

- Click  button to view batch details as per Figure 3.1.2-7 and choose the batch no and insert the Allocate Qty field as per Figure 3.1.2-8



**Figure 3.1.2-8 Drug Batch details**

- *Batch nearest to expiration will be selected automatically and calculated for the drugs to be administered.*
- Tap on the  button to save the record

4:50 PM 77%

**Medication Administration Recording** Refresh

---

Back HSM011227  
System PHIS

Male / 65y 3m 17d  
 Mykad: 540715-09-5101  
 Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:

G6PD Record Allergy ADR **Diagnosis** <sup>1</sup>

---

**Guidelines :** S Served O Overdue W Withhold N Not Serve D Due L Late F Future Dose E Discontinue

---

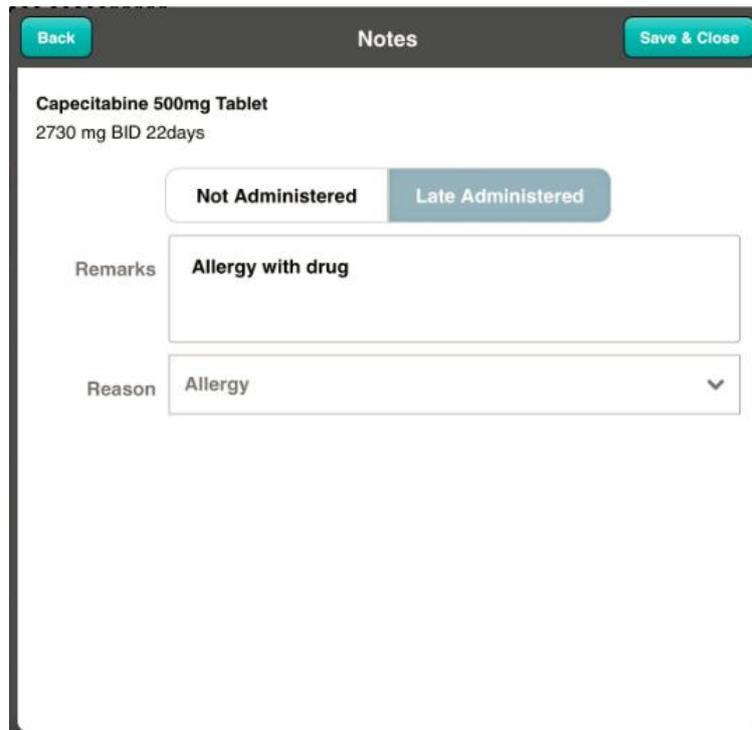
<b>Amlodipine 10 mg and Valsartan 160 mg Tablet</b> <span style="float: right;">D</span> Dosage: 1 tablet, 01/11/2019 - 02/11/2019, STAT, Oral Order date: 01/11/2019 04:47 PM Prescriber: System PHIS Prescriber's Remark :	-No schedule-	01/11/2019 4:45 pm <span style="float: right;">Record</span> 1 tablet	-No schedule-
<b>Paracetamol 500 mg Tablet</b> <span style="float: right;">D</span> Dosage: 1000 mg, 01/11/2019 - 08/11/2019, TDS PRN, Oral Order date: 01/11/2019 04:47 PM Prescriber: System PHIS Prescriber's Remark :	WS	01/11/2019 <span style="float: right;">Record</span> 1000 mg <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> tablet	-No schedule-
<b>Frusamide 40 mg Tablet</b> <span style="float: right;">O</span>			

---

System PHIS RUMAH SAKIT LIMAU WAD 1

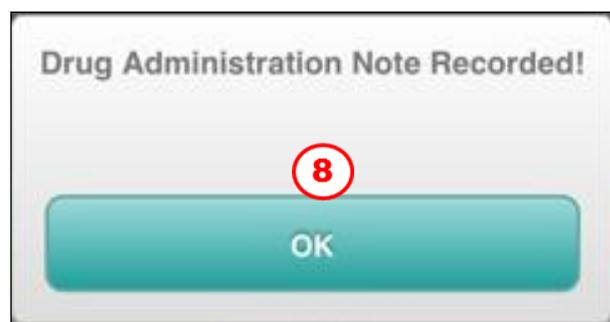
Figure 3.1.2-8 Patient Order Details

**Note**



**Figure 3.1.2-9 Medication Administration Recording**

- User able to record medication with status Due and Add / Edit Remarks under “No Administered” type only as display in Figure 3.1.2-9



**Figure 3.1.2-10 Medication Administration Recording**

**STEP 8**

Tap on the  button and system will display as Figure 3.1.2-10

4:52 PM
77%

Back
Medication Administration Recording
Refresh

Male / 65y 3m 17d  
Mykad: XXXXXXXXXX

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

G6PD

HSM011227  
(System PhIS)

Record
Allergy
ADR
Diagnosis 1

Guidelines : S Served O Overdue W Withhold N Not Serve D Due L Late F Future Dose E Discontinue

<p><b>Amlodipine 10 mg and Valsartan 160 mg Tablet</b> <span style="float: right; color: blue;">🔗</span></p> <p>Dosage: 1 tablet, 01/11/2019 - 02/11/2019, STAT, Oral Order date: 01/11/2019 04:47 PM Prescriber: <span style="background-color: #ccc; padding: 2px;">XXXXXXXXXX</span></p> <p>Prescriber's Remark :</p>	-No schedule-	01/11/2019 4:45 pm 1 tablet	<span style="color: blue; font-weight: bold;">Record</span>	-No schedule-
<p><b>Paracetamol 500 mg Tablet</b> <span style="float: right; color: blue;">🔗</span></p> <p>Dosage: 1000 mg, 01/11/2019 - 08/11/2019, TDS PRN, Oral Order date: 01/11/2019 04:47 PM Prescriber: <span style="background-color: #ccc; padding: 2px;">XXXXXXXXXX</span></p> <p>Prescriber's Remark :</p>	<span style="border: 1px solid #ccc; border-radius: 50%; padding: 2px;">WS</span> <span style="color: green; font-weight: bold;">S</span>	01/11/2019 04:49 pm 1000 mg <span style="border: 1px solid #ccc; padding: 2px 10px;">Complete</span> <span style="border: 1px solid #ccc; padding: 2px 10px;"> </span> tablet	<span style="color: green; font-weight: bold;">S</span> <span style="color: blue; font-weight: bold;">Record</span>	<span style="color: orange; font-weight: bold;">D</span> -No schedule-
<p><b>Frusamide 40 mg Tablet</b> <span style="float: right; color: blue;">🔗</span></p>			<span style="color: red; font-weight: bold;">O</span>	

System PhIS
 WAD 1

Figure 3.1.2-7 Patient Medication List

### 3.1.3 Add / Edit Remarks

Add / Edit Remarks is used for record the medication with status **Overdue** and **Due**

#### 3.1.3.1 Late Administered

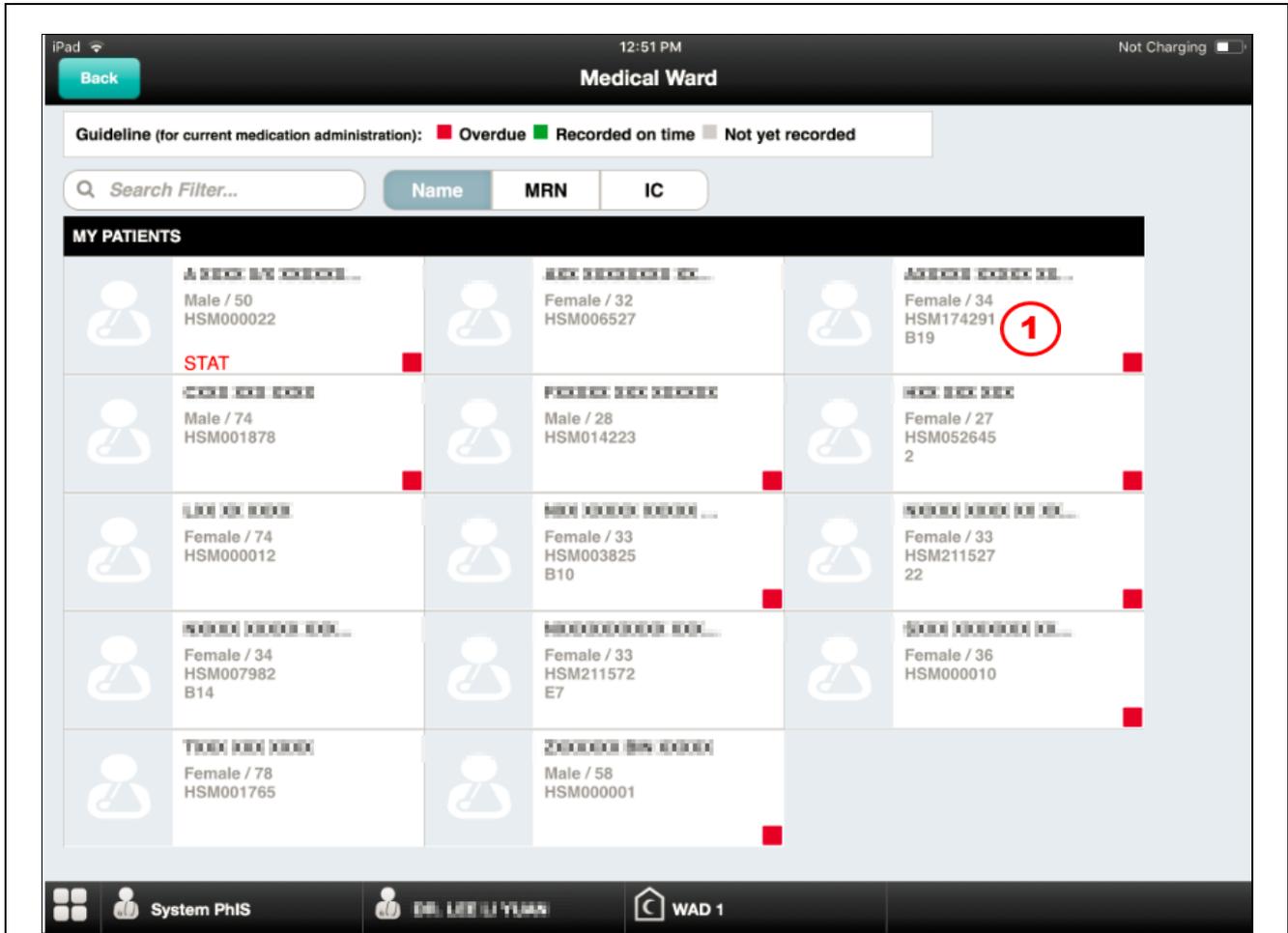


Figure 3.1.2.1-1 Patient Listing Page

#### STEP 1

Tap on selected patient name or search the patient by using  field



**Medication Administration Recording**

Back Refresh

Female / 34y 2m 12d  
Mykad: 850721-14-5834  
Height: 120 cm Weight: 20 kg BSA: 0.82 m<sup>2</sup> BMI: 13.9 kg/m<sup>2</sup> Bed No: B19  
G6PD

HSM174291  
System PhIS

Record Allergy ADR Diagnosis

Guidelines : S Served O Overdue W Withhold N Not Serve D Due L Late F Future Dose E Discontinue

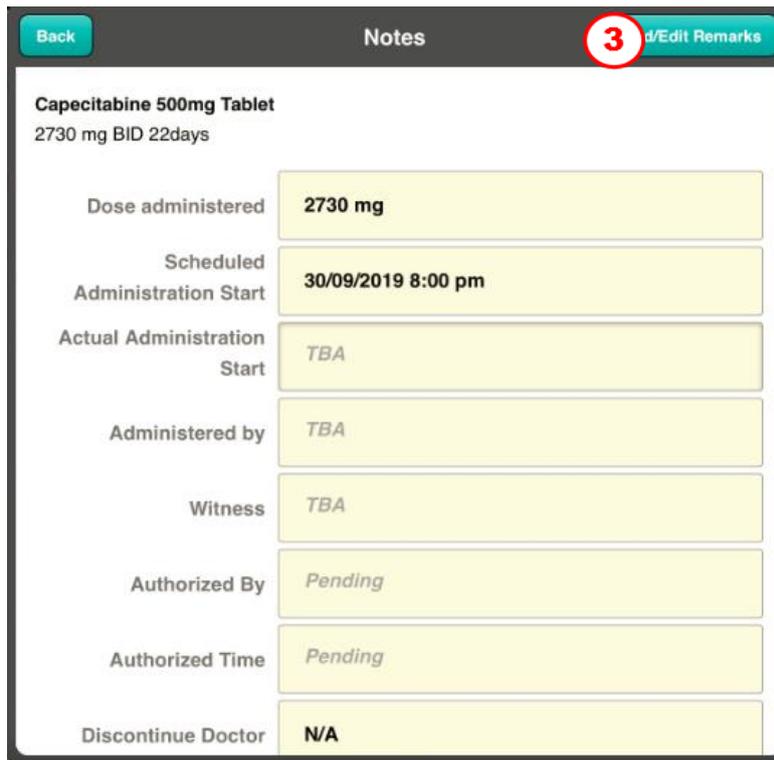
Drug Name and Dosage Details	Stock	Past	Current	Future
<b>Non-Infusion Drug</b>				
<b>Capecitabine 500mg Tablet</b> Dosage: 1700 mg, 1030 mg, 17/09/2019 - 09/10/2019, BD (twice daily), Oral Order date: 17/09/2019 03:54 PM Prescriber: DR. DING MIN TAT Prescriber's Remark :	30/09/2019 08:00 pm 2730 mg <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 2 No schedule-	-No schedule-
<b>Capecitabine 500mg Tablet</b> Dosage: 1025 mg, 17/09/2019 - 09/10/2019, ON (every night), Oral Order date: 17/09/2019 03:54 PM Prescriber: DR. DING MIN TAT	30/09/2019 08:00 pm 1025 mg <input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> -No schedule-	-No schedule-

System PhIS DR. LEE LI YUAN WAD 1

Figure 3.1.2.1-2 Medication Administration Recording

**STEP 2**

Tap on column with  Overdue icon



Notes	
<b>Capecitabine 500mg Tablet</b> 2730 mg BID 22days	
Dose administered	2730 mg
Scheduled Administration Start	30/09/2019 8:00 pm
Actual Administration Start	TBA
Administered by	TBA
Witness	TBA
Authorized By	Pending
Authorized Time	Pending
Discontinue Doctor	N/A

Figure 3.1.2.1-3 Medication Administration Recording

**STEP 3**

Tap on column  button

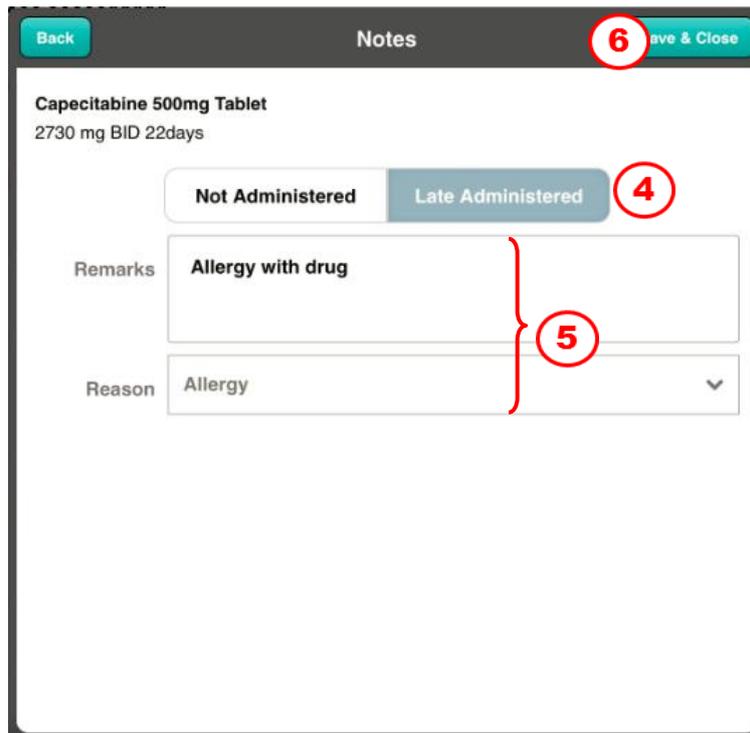


Figure 3.1.2.1-4 Medication Administration Recording

**STEP 4**

Tap on the  button

**STEP 5**

Enter the information in the remarks field and choose the reason from drop down menu

**STEP 6**

Tap on the  button to save the record

**Note**

*After save the record user able to add and edit the records*

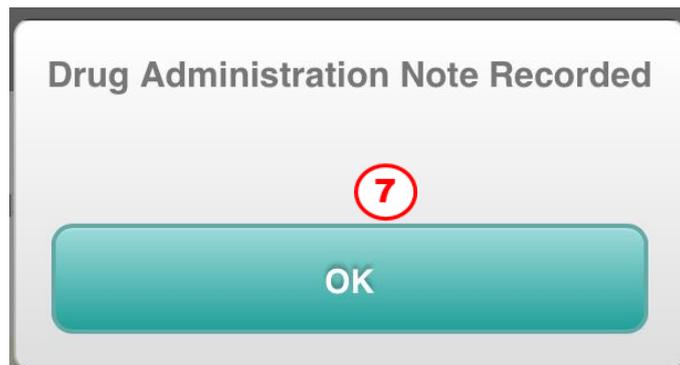
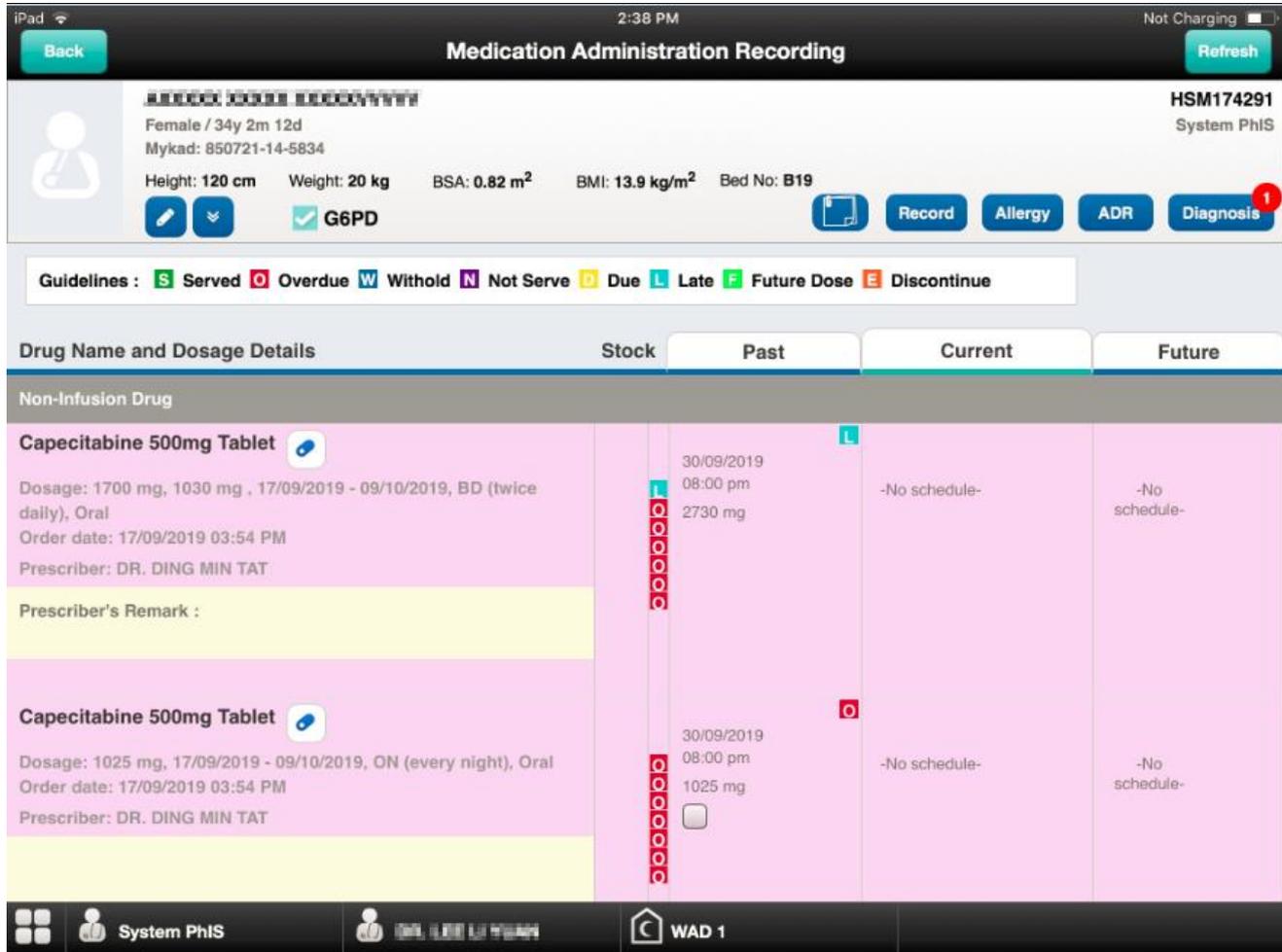


Figure 3.1.2.1-5 Medication Administration Recording

**STEP 7**

Tap on the  button and system will display as Figure 3.1.2.1-5



**Medication Administration Recording**

Female / 34y 2m 12d  
Mykad: 850721-14-5834  
Height: 120 cm Weight: 20 kg BSA: 0.82 m<sup>2</sup> BMI: 13.9 kg/m<sup>2</sup> Bed No: B19  
G6PD

HSM174291  
System PhIS

Guidelines : **S** Served **O** Overdue **W** Withhold **N** Not Serve **D** Due **L** Late **F** Future Dose **E** Discontinue

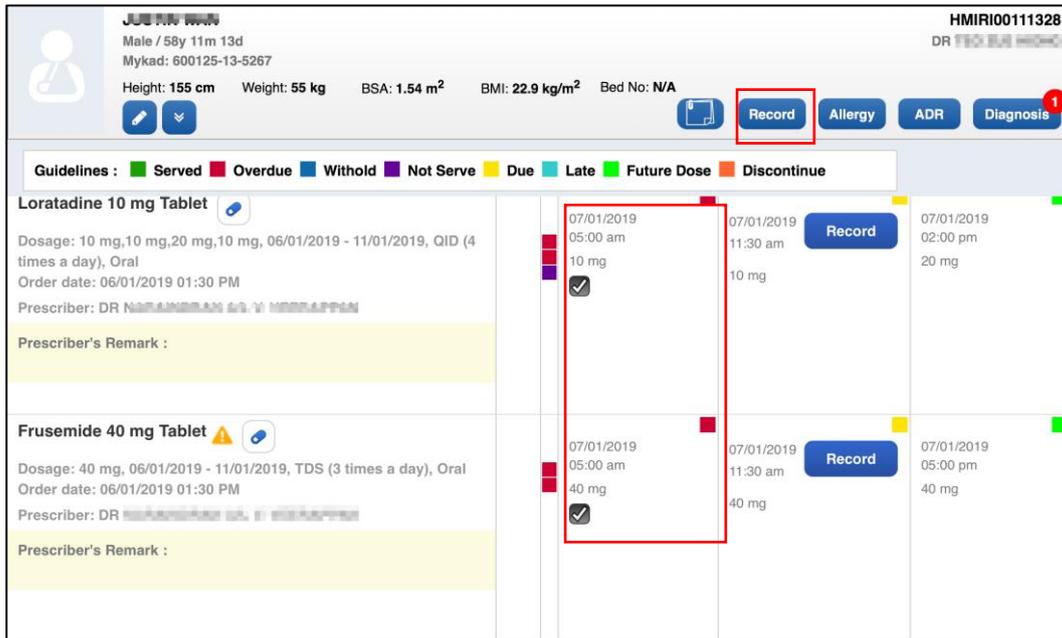
Drug Name and Dosage Details	Stock	Past	Current	Future
<b>Non-Infusion Drug</b>				
<b>Capecitabine 500mg Tablet</b> Dosage: 1700 mg, 1030 mg, 17/09/2019 - 09/10/2019, BD (twice daily), Oral Order date: 17/09/2019 03:54 PM Prescriber: DR. DING MIN TAT Prescriber's Remark :	30/09/2019 08:00 pm 2730 mg		-No schedule-	-No schedule-
<b>Capecitabine 500mg Tablet</b> Dosage: 1025 mg, 17/09/2019 - 09/10/2019, ON (every night), Oral Order date: 17/09/2019 03:54 PM Prescriber: DR. DING MIN TAT	30/09/2019 08:00 pm 1025 mg		-No schedule-	-No schedule-

System PhIS | WAD 1

**Figure 3.1.2.1-6 Medication Administration Recording**

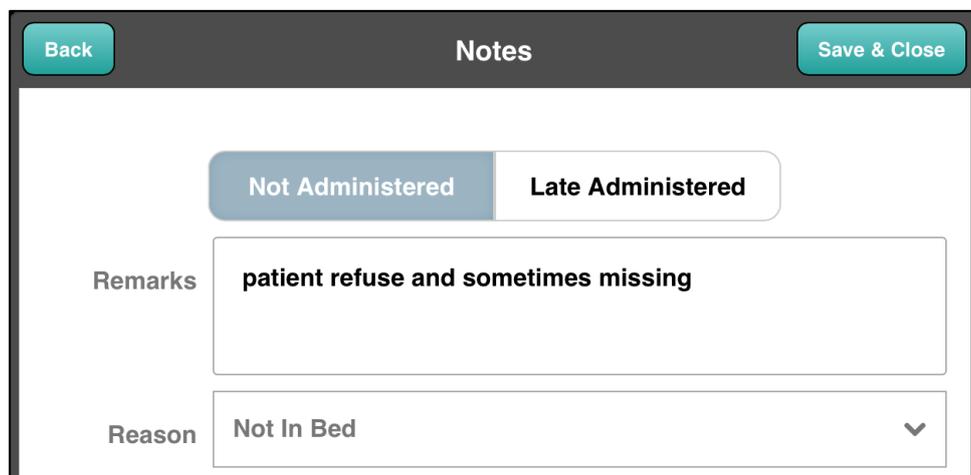
**Notes**

- User able to update late serve for multiple drug at one time.



**Figure 3.1.2.1-11 Medication Administration Recording**

- Select checkbox on multiple drug and tap on record **Record** button to record the overdue
- Notes pop-up screen will appear as per Figure 3.1.2.1-12
- User able to choose between 'Not Administered' or 'Late Administered'



**Figure 3.1.2.1-12 Medication Administration Recording**

- Enter remarks and select one of the Reason from drop down list as per Figure 3.1.2.1-12.
- Then tap on Save & Close button.
- Confirmation message below will appear as per Figure 3.1.2.1-13.

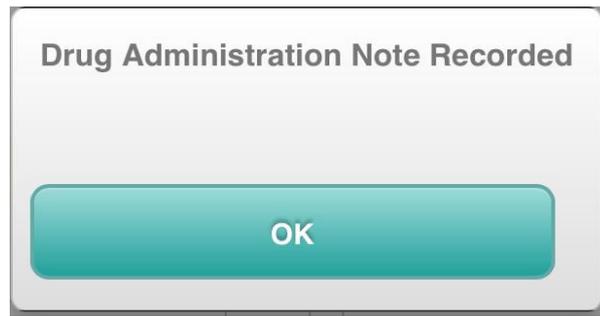


Figure 3.1.2.1-13 Confirmation Alert

- Tap on OK as per Figure 3.1.2.1-13 and multiple drugs record will be updated to Not Serve as per Figure 3.1.2.1-14.

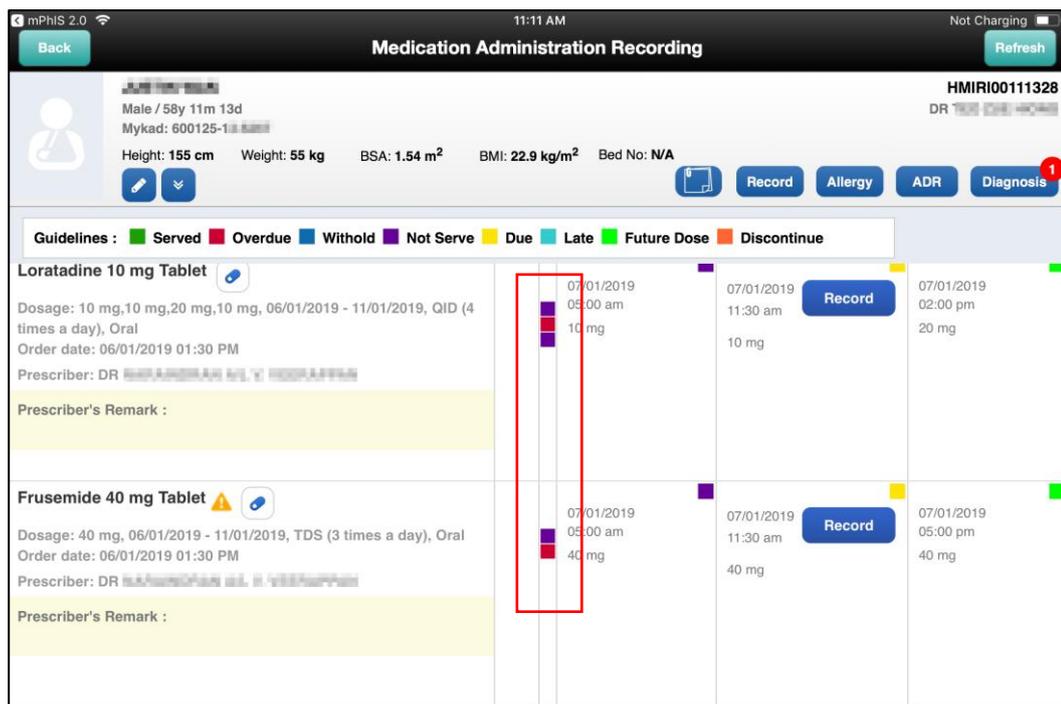


Figure 3.1.2.1-14 Medication Administration Recording

### 3.1.3.2 Not Administered

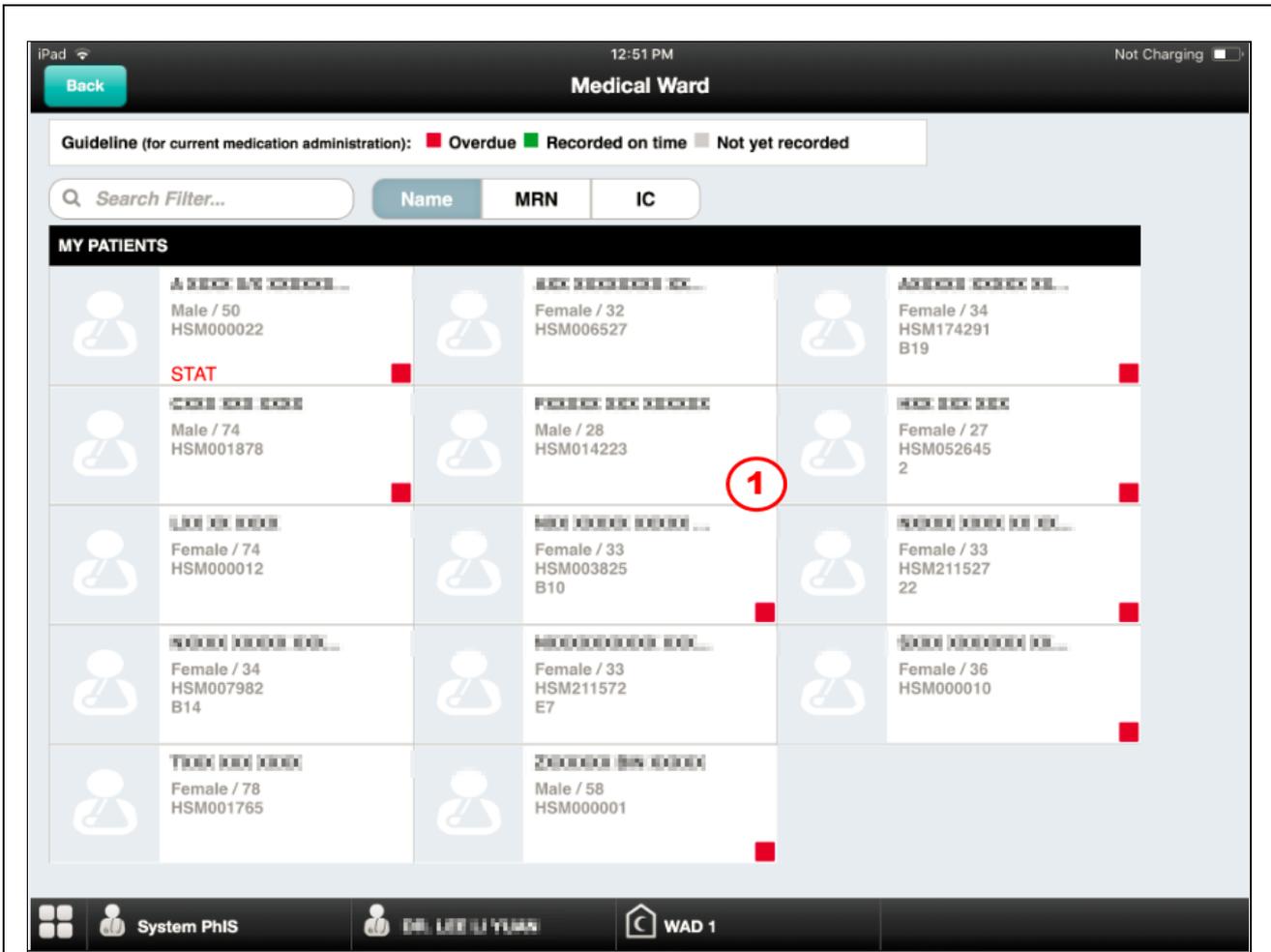
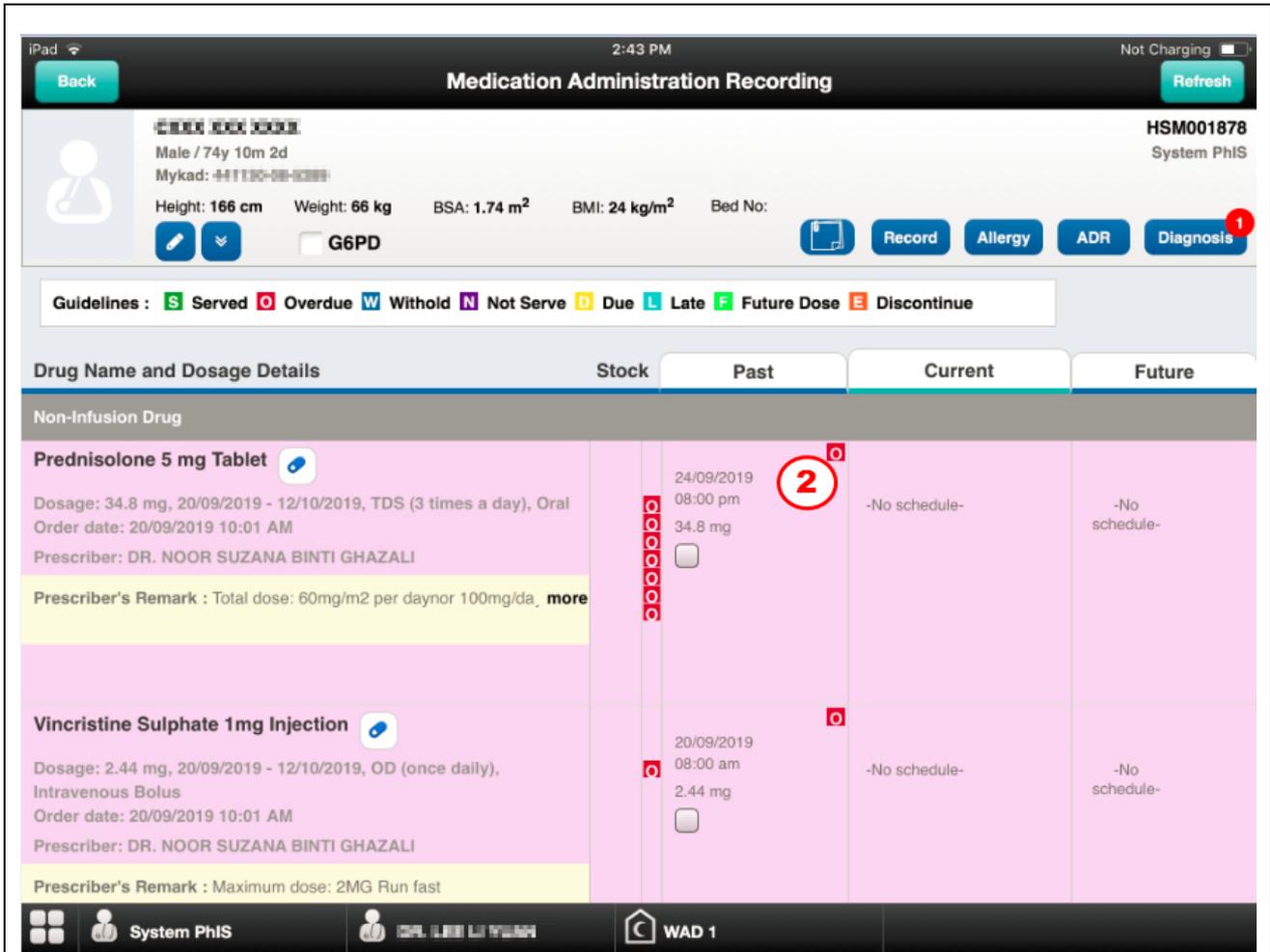


Figure 3.1.3.2-1 Patient Listing Page

#### STEP 1

Tap on selected patient name or search the patient by using  field



**Medication Administration Recording**

Back Refresh

Male / 74y 10m 2d  
Mykad: \*\*\*\*\*  
Height: 166 cm Weight: 66 kg BSA: 1.74 m<sup>2</sup> BMI: 24 kg/m<sup>2</sup> Bed No:  
G6PD

HSM001878  
System PhIS

Record Allergy ADR Diagnosis

Guidelines : S Served O Overdue W Withhold N Not Serve D Due L Late F Future Dose E Discontinue

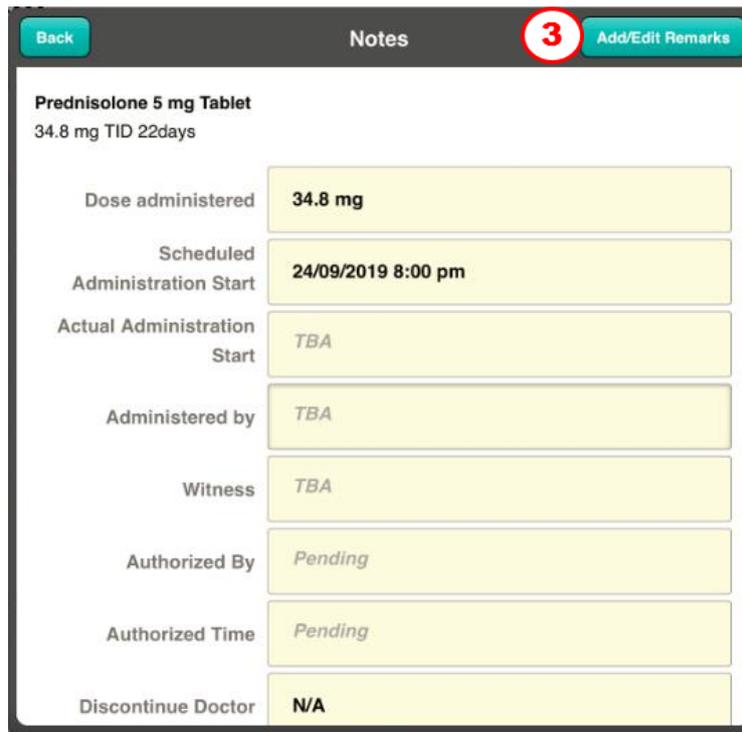
Drug Name and Dosage Details	Stock	Past	Current	Future
<b>Non-Infusion Drug</b>				
<b>Prednisolone 5 mg Tablet</b> Dosage: 34.8 mg, 20/09/2019 - 12/10/2019, TDS (3 times a day), Oral Order date: 20/09/2019 10:01 AM Prescriber: DR. NOOR SUZANA BINTI GHAZALI Prescriber's Remark : Total dose: 60mg/m2 per daynor 100mg/da, more	24/09/2019 08:00 pm 34.8 mg <input type="checkbox"/>	<input checked="" type="checkbox"/>	-No schedule-	-No schedule-
<b>Vincristine Sulphate 1mg Injection</b> Dosage: 2.44 mg, 20/09/2019 - 12/10/2019, OD (once daily), Intravenous Bolus Order date: 20/09/2019 10:01 AM Prescriber: DR. NOOR SUZANA BINTI GHAZALI Prescriber's Remark : Maximum dose: 2MG Run fast	20/09/2019 08:00 am 2.44 mg <input type="checkbox"/>	<input checked="" type="checkbox"/>	-No schedule-	-No schedule-

System PhIS DR. LEE LI YUAN WAD 1

Figure 3.1.3.2-2 Medication Administration Recording

**STEP 2**

Tap on column with  Overdue icon



**Notes** 3 Add/Edit Remarks

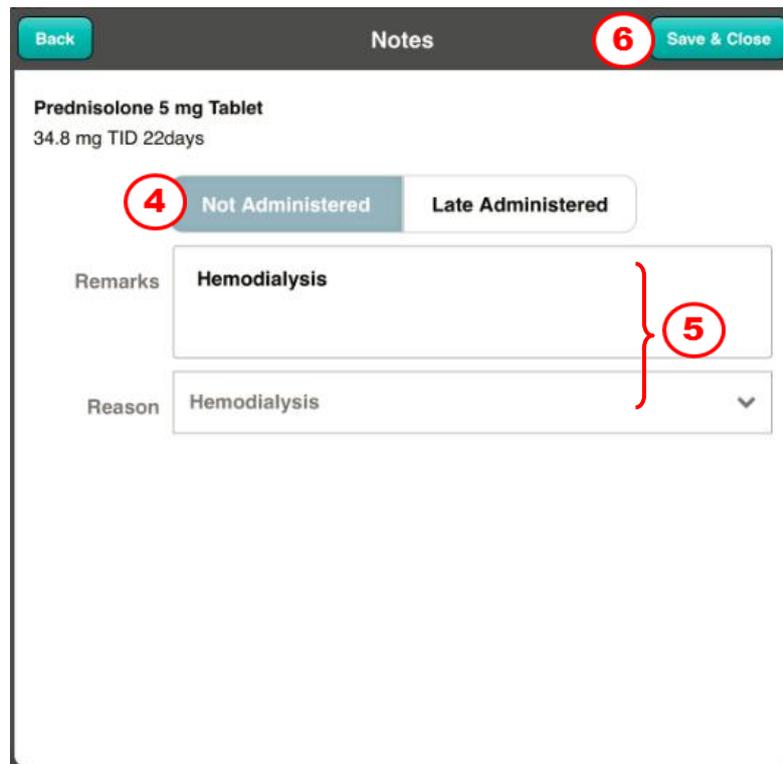
**Prednisolone 5 mg Tablet**  
34.8 mg TID 22days

Dose administered	34.8 mg
Scheduled Administration Start	24/09/2019 8:00 pm
Actual Administration Start	TBA
Administered by	TBA
Witness	TBA
Authorized By	Pending
Authorized Time	Pending
Discontinue Doctor	N/A

Figure 3.1.3.2-3 Medication Administration Recording

**STEP 3**

Tap on column  button



**Notes** 6 Save & Close

**Prednisolone 5 mg Tablet**  
34.8 mg TID 22days

4 Not Administered    Late Administered

Remarks **Hemodialysis** 5

Reason Hemodialysis

Figure 3.1.3.2-4 Medication Administration Recording

**STEP 4**

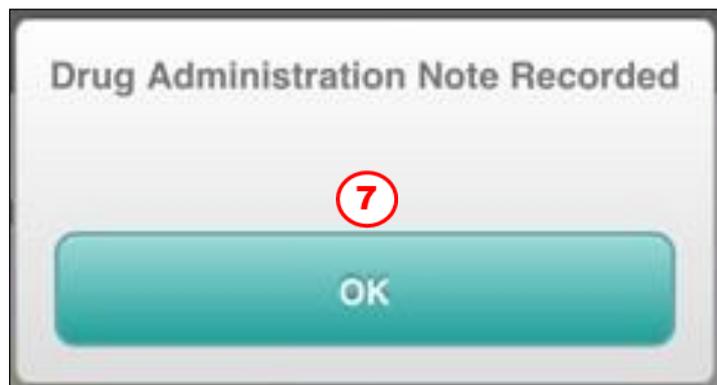
Tap on the  button

**STEP 5**

Enter the information in the remarks field and choose the reason from drop down menu

**STEP 6**

Tap on the  button to save the record



**Figure 3.1.3.2-5 Medication Administration Recording**

**STEP 7**

Tap on the  button and system will display as Figure 3.1.3.2-6



**Note**

- User able to record the Add / Edit Remarks for due strictly on “No Administered” as per shown in below.

Guidelines : <span style="color: green;">S</span> Served <span style="color: red;">O</span> Overdue <span style="color: blue;">W</span> Withhold <span style="color: purple;">N</span> Not Serve <span style="color: orange;">D</span> Due <span style="color: teal;">L</span> Late <span style="color: green;">F</span> Future Dose <span style="color: red;">E</span> Discontinue				
Drug Name and Dosage Details	Stock	Past	Current	Future
<b>Non-Infusion Drug</b>				
<b>Loratadine 10 mg Tablet</b>  Dosage: 10 mg, 10/07/2019 - 15/07/2019, ON PRN, Oral Order date: 10/07/2019 04:44 PM Prescriber: DR. [REDACTED] Prescriber's Remark : trsd		-No schedule-	10/07/2019 <span style="color: orange;">D</span> 10 mg <span style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Record</span>	-No schedule-
<b>Perindopril 4 mg Tablet</b>  Dosage: 4 mg, 10/07/2019 - 11/07/2019, STAT, Oral Order date: 10/07/2019 04:44 PM Prescriber: DR. [REDACTED] Prescriber's Remark :		-No schedule-	10/07/2019 <span style="color: orange;">D</span> 4:44 pm <span style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">Record</span> 4 mg	-No schedule-

**Figure 3.1.3.2-7 Medication Administration Recording**

- Tap on the Record button and system will display as Figure 3.1.3.2-8

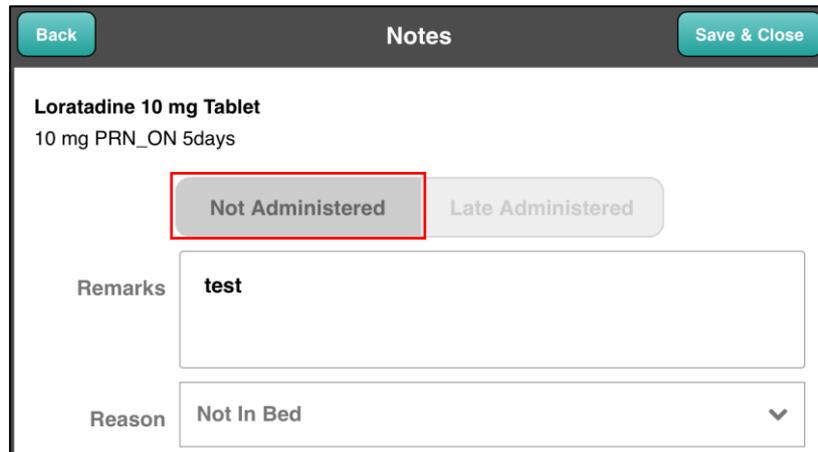
Back
Notes
Add/Edit Remarks

**Loratadine 10 mg Tablet**  
10 mg PRN\_ON 5days

Dose administered	10 mg
Scheduled Administration Start	10/07/2019 4:44 pm
Actual Administration Start	TBA
Administered by	TBA
Witness	TBA
Authorized By	Pending
Authorized Time	Pending
Discontinue Doctor	N/A

**Figure 3.1.3.2-8 Medication Administration Recording**

- Tap on column **Add/Edit Remarks** button as Figure 3.1.3.2-8



**Figure 3.1.3.2-9 Medication Administration Recording**

- Tap on the **Not Administered** button. User able to edit this patient to 'Not Administered' as per Figure 3.1.3.2-9. This screen will be defaulted to 'Not Administered' tab. Enter the information in the remarks field.
- Tap on the **Save & Close** button to save the record. Once save, record will be change colour to purple as per Figure 3.1.3.2-10.

Guidelines : <span style="color: green;">S</span> Served <span style="color: red;">O</span> Overdue <span style="color: blue;">W</span> Withhold <span style="color: purple;">N</span> Not Serve <span style="color: orange;">D</span> Due <span style="color: teal;">L</span> Late <span style="color: green;">F</span> Future Dose <span style="color: red;">E</span> Discontinue				
Drug Name and Dosage Details	Stock	Past	Current	Future
<b>Non-Infusion Drug</b>				
<b>Loratadine 10 mg Tablet</b>  Dosage: 10 mg, 10/07/2019 - 15/07/2019, ON PRN, Oral Order date: 10/07/2019 04:44 PM Prescriber: DR. [REDACTED] Prescriber's Remark : trsd		-No schedule-	10/07/2019 <span style="color: purple;">N</span> 10 mg <b>Record</b>	-No schedule-

**Figure 3.1.3.2-10 Medication Administration Recording**

### 3.2 View MAR

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

#### 3.2.1 View MAR – Graph View

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

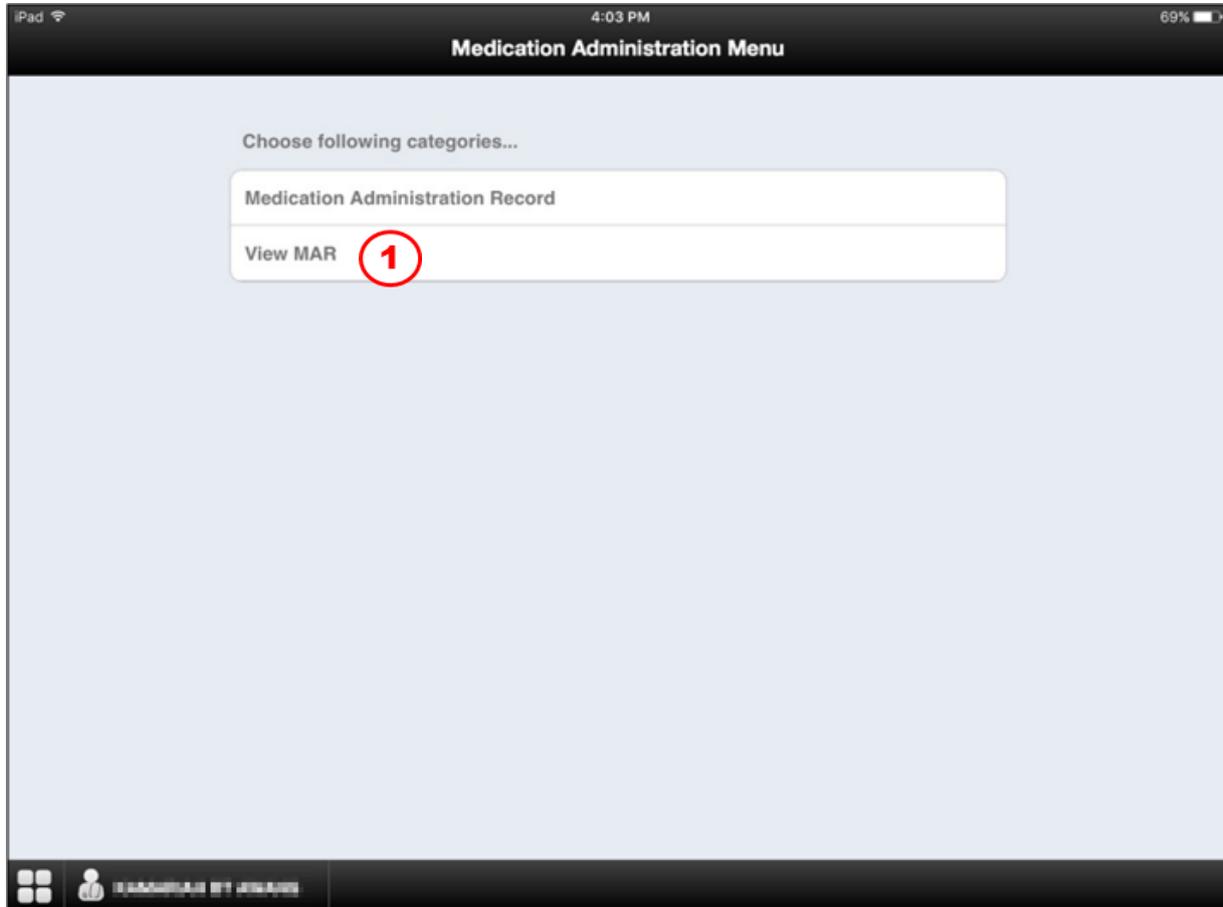


Figure 3.2.1-1 MAR Listing Page

#### STEP 1

Tap on the **View MAR**

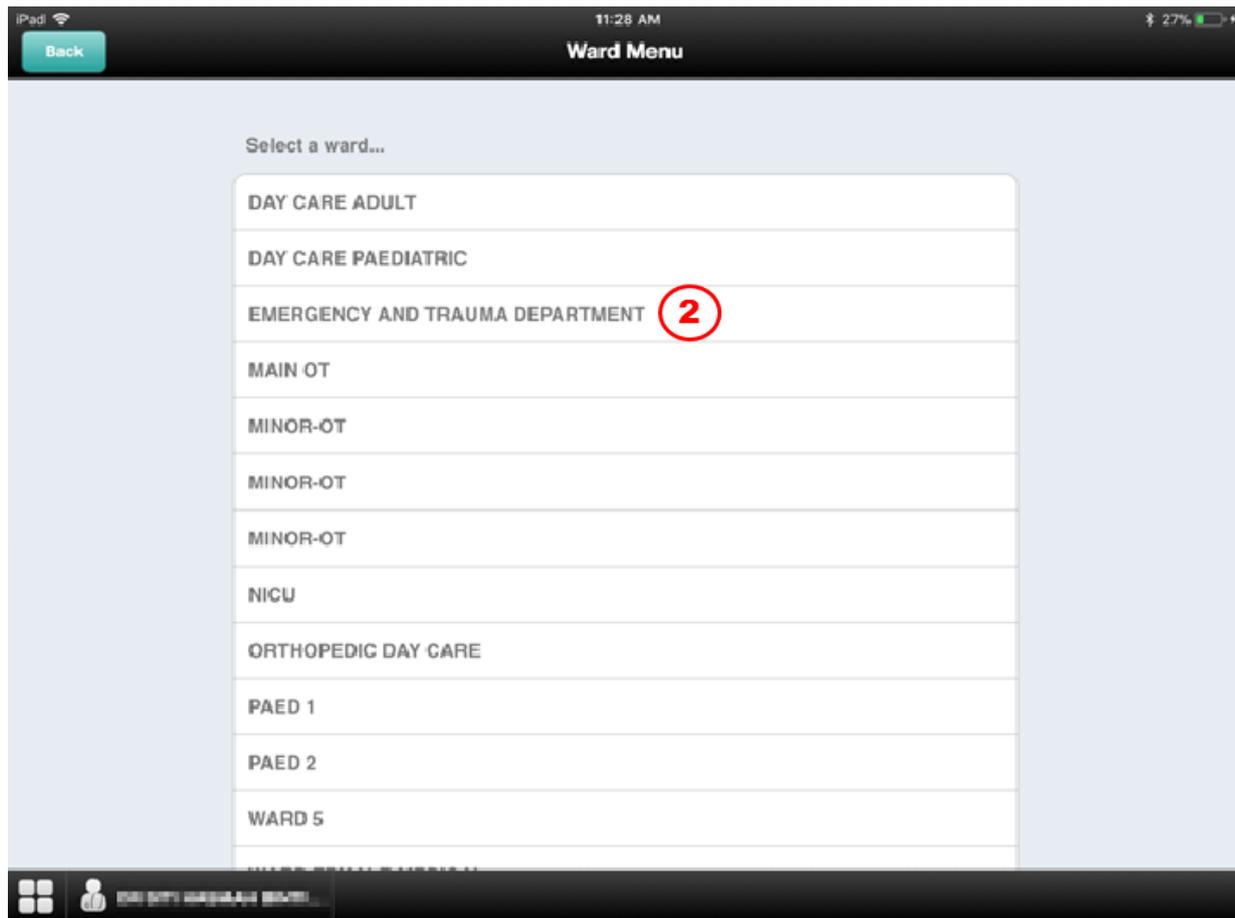


Figure 3.2.1-2 Location Screen Listing Page

**STEP 2**

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

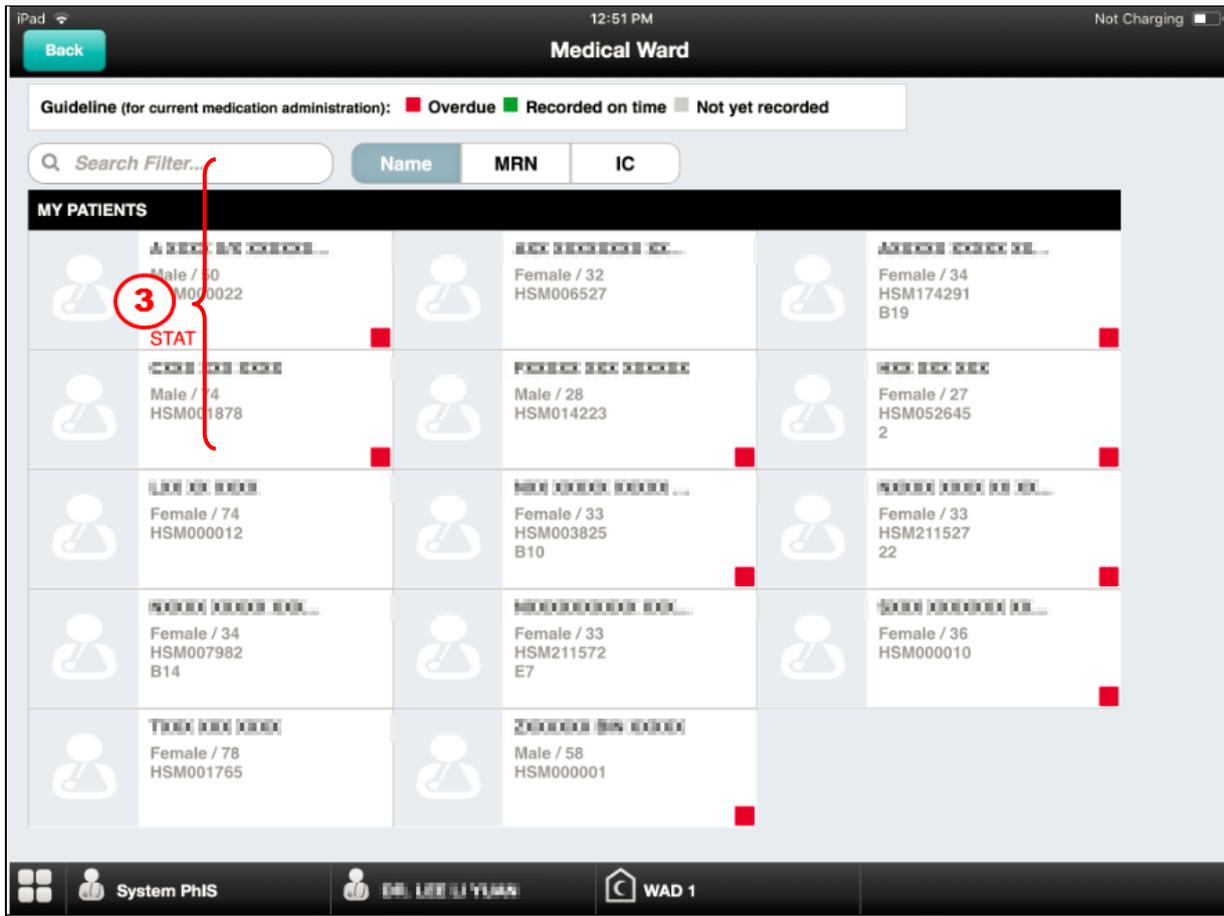


Figure 3.2.1-3 Patient Listing Page

**STEP 3**

Tap on selected patient name or search the patient by using  field. System will display as Figure 3.2.1-4

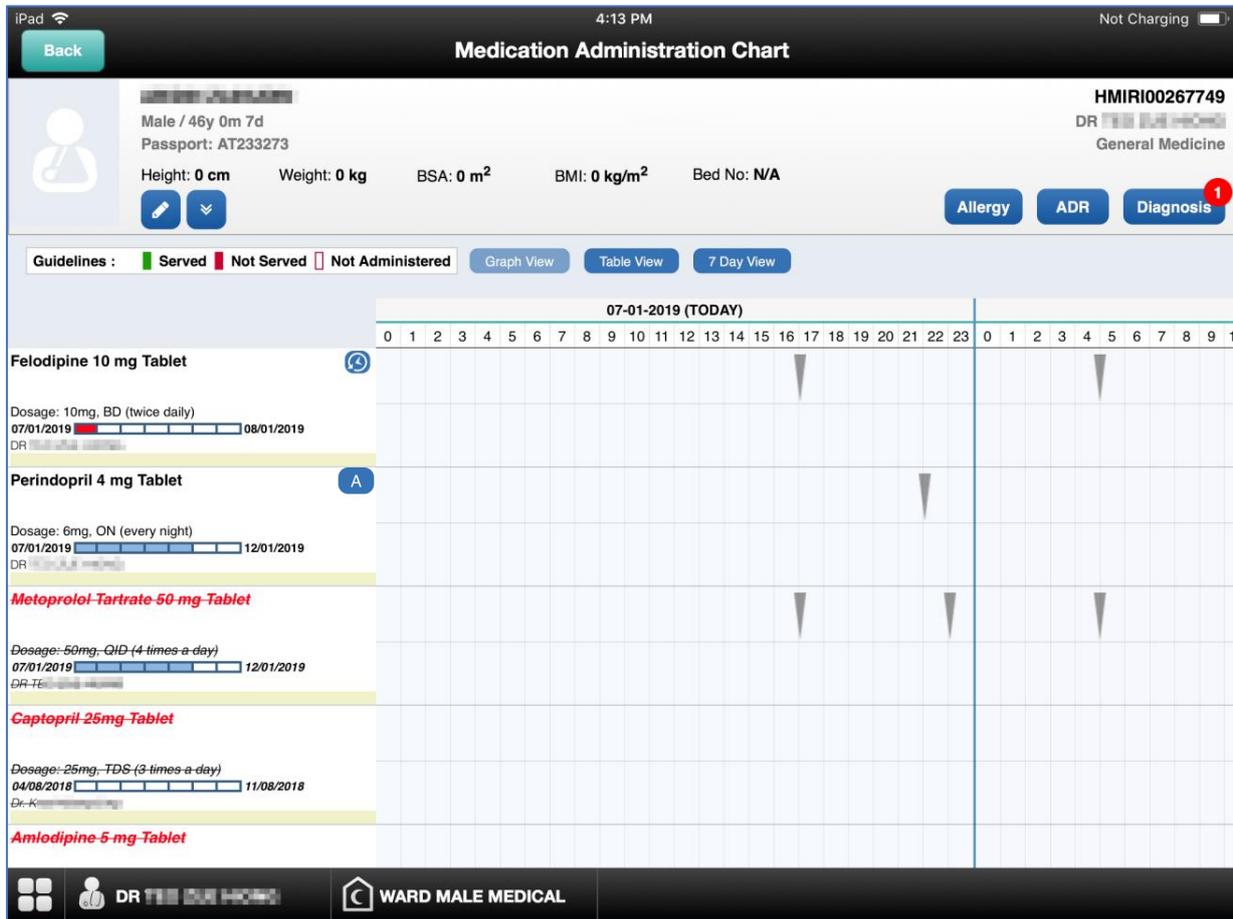


Figure 3.2.1-4 View MAR Graph View

**Note**

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



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

History Records			Close
Frusemide 40 mg Tablet			
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			
W10000824285	System PhIS	Ambulatory Care	
Frusemide 40 mg Tablet			
40 mg, OM (every morning), 5 D, 30/09/2019 19:24:00 to 05/10/2019 19:24:00			
W10000823483	DR. LEE LI YUAN	General Medicine	
Frusemide 40 mg Tablet			
40 mg, OM (every morning), 4 D, 31/07/2019 11:49:00 to 04/08/2019 11:49:00			
W10000823027	System PhIS	General Medicine	
Frusemide 40 mg Tablet			

- MAR Dialog status updated to Discontinue and strike through in red colour as per Figure 3.2.1-4

### 3.2.2 View MAR – Table View

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

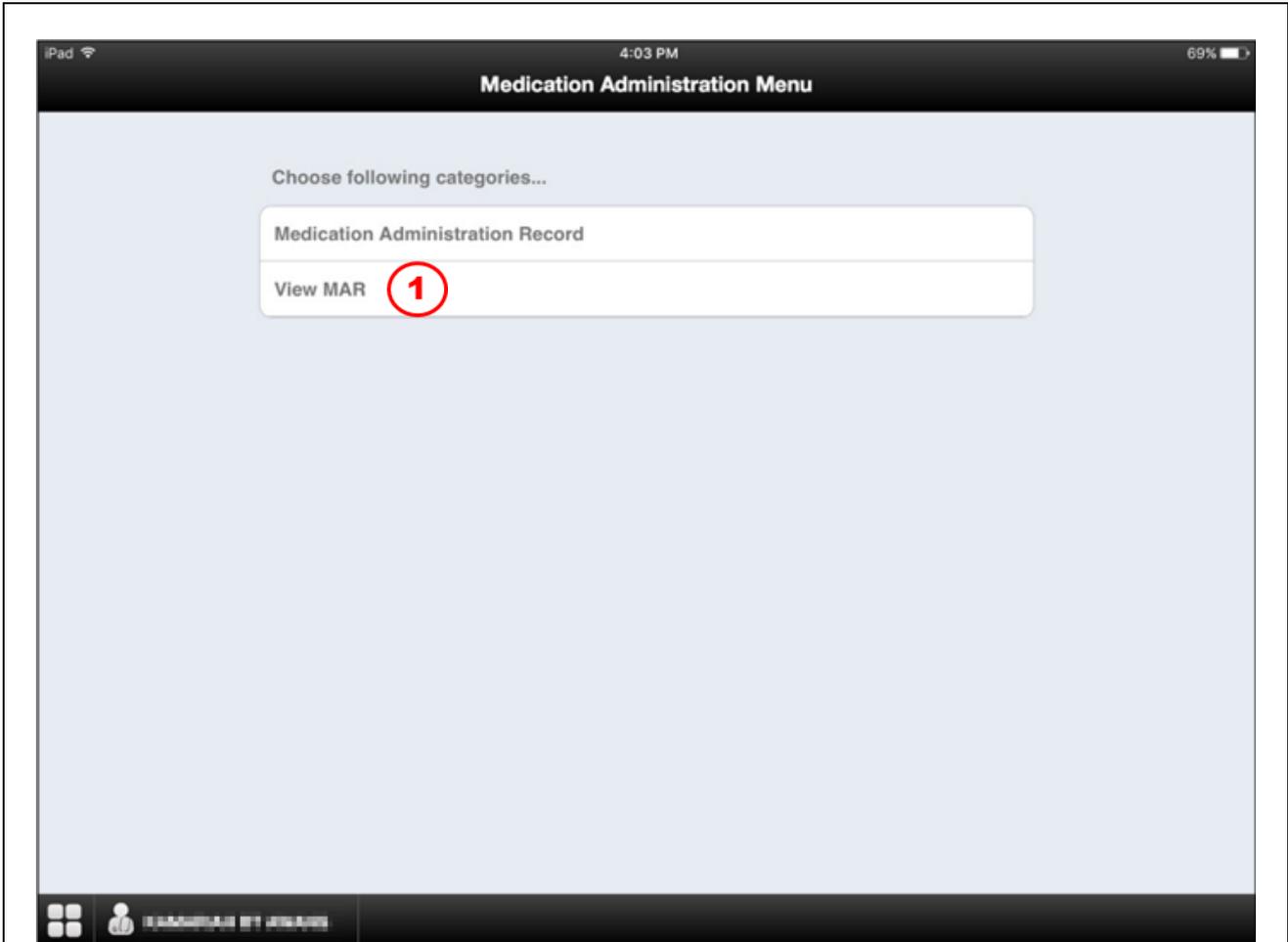


Figure 3.2.2-1 MAR Listing Page

#### STEP 1

Tap on the **View MAR**

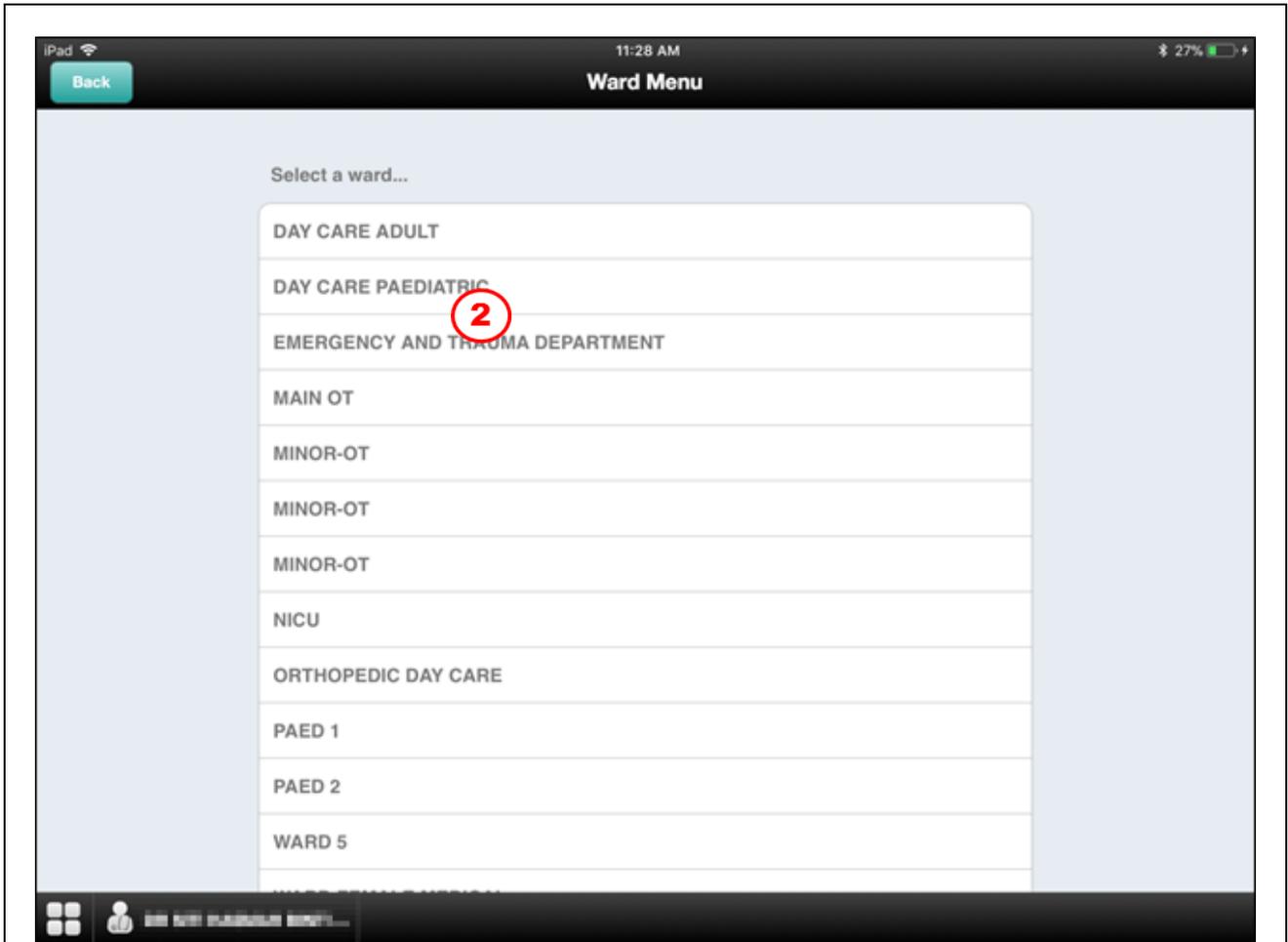


Figure 3.2.2-2 Location Screen Listing Page

**STEP 2**

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

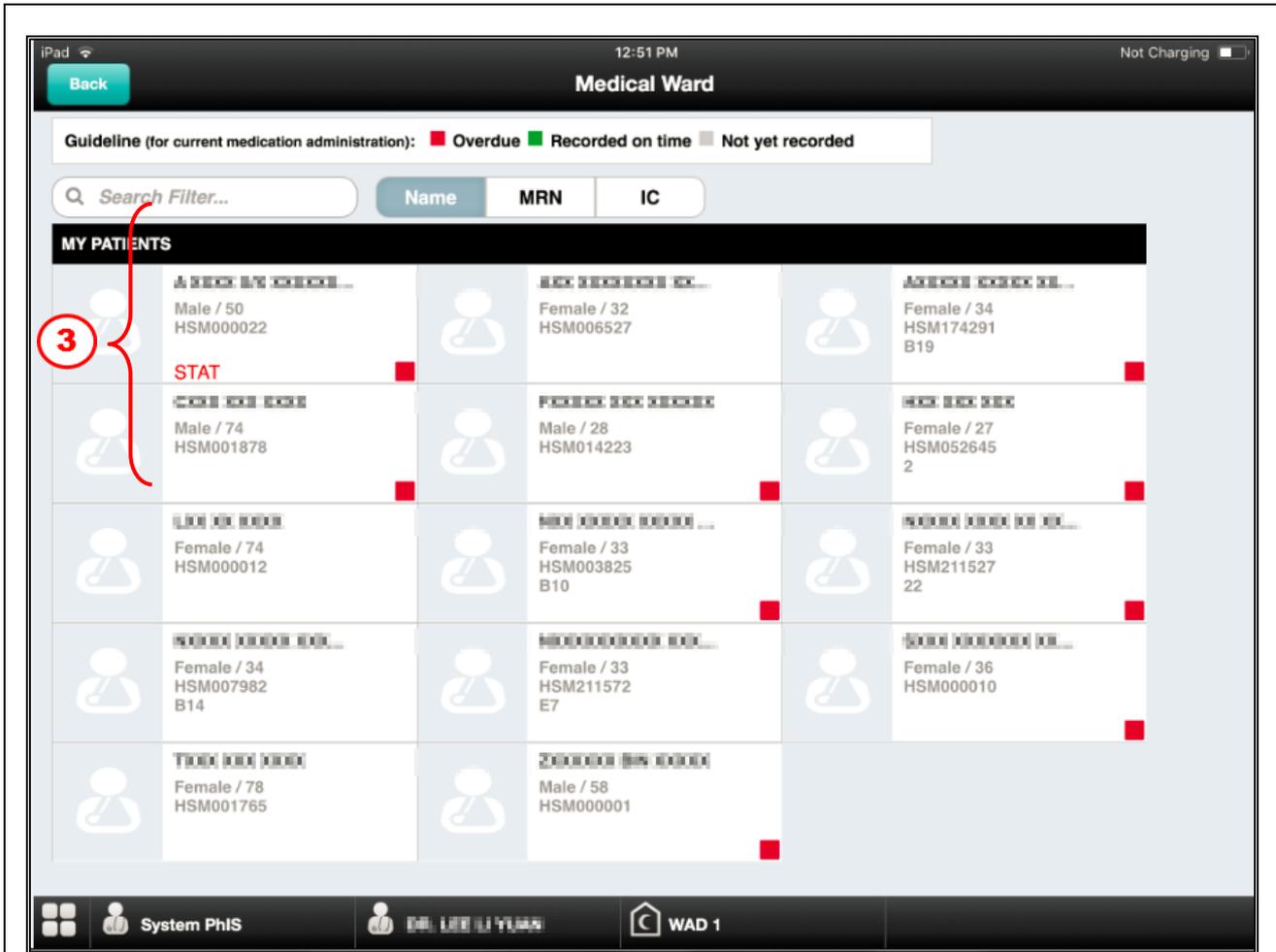


Figure 3.2.2-3 Patient Listing Page

**STEP 3**

Tap on selected patient name or search the patient by using



field. System will display as Figure 3.2.2-4

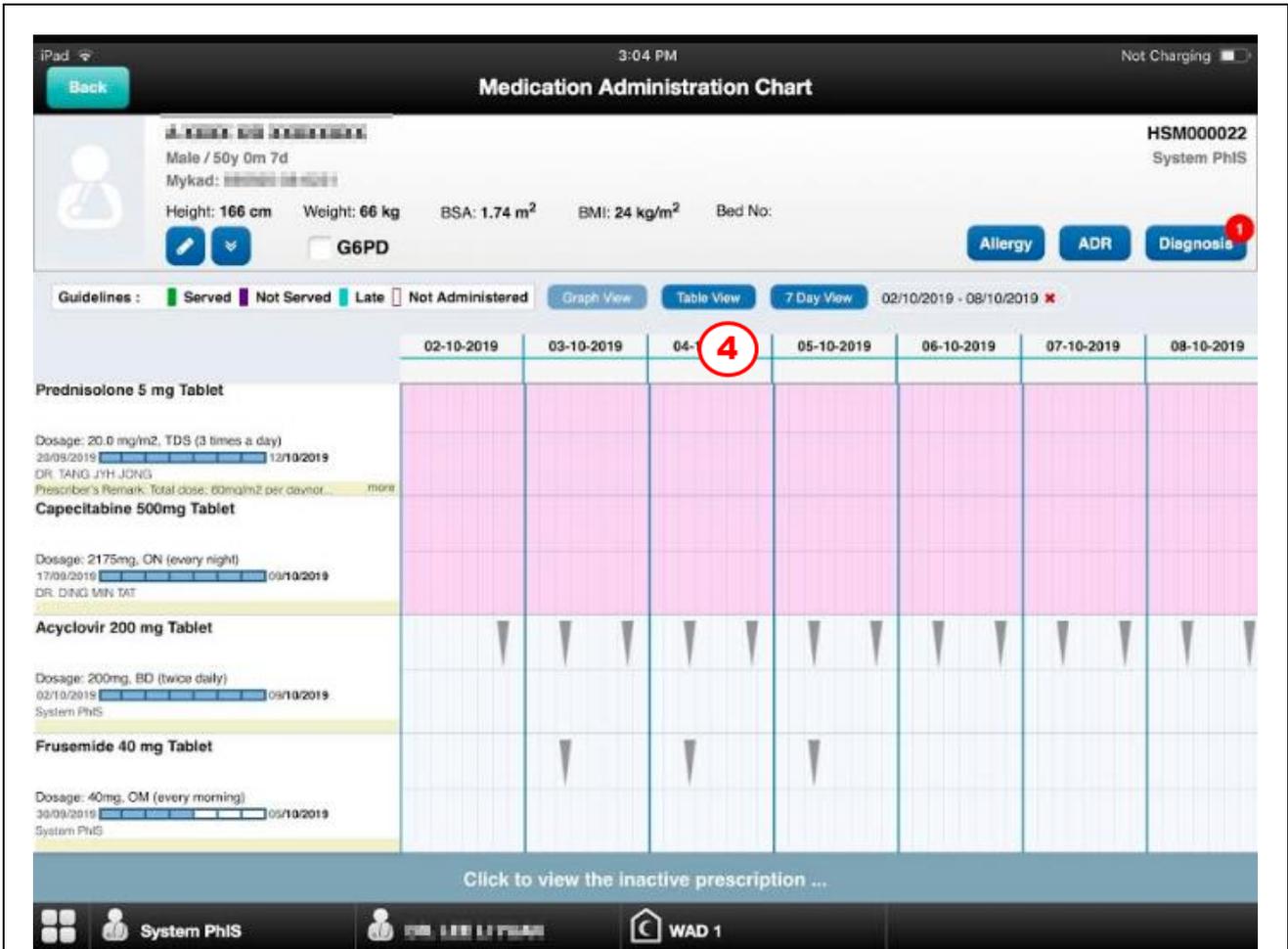


Figure 3.2.2-4 View MAR Graph View

**STEP 4**

Tap on the **Table View** button and system will display as Figure 3.2.2-5

**NOTE**

More records can be viewed by tapping the **Click to view the inactive prescription ...** button. User can view more records without page paging



### 3.2.3 View MAR – 7 Days View.

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

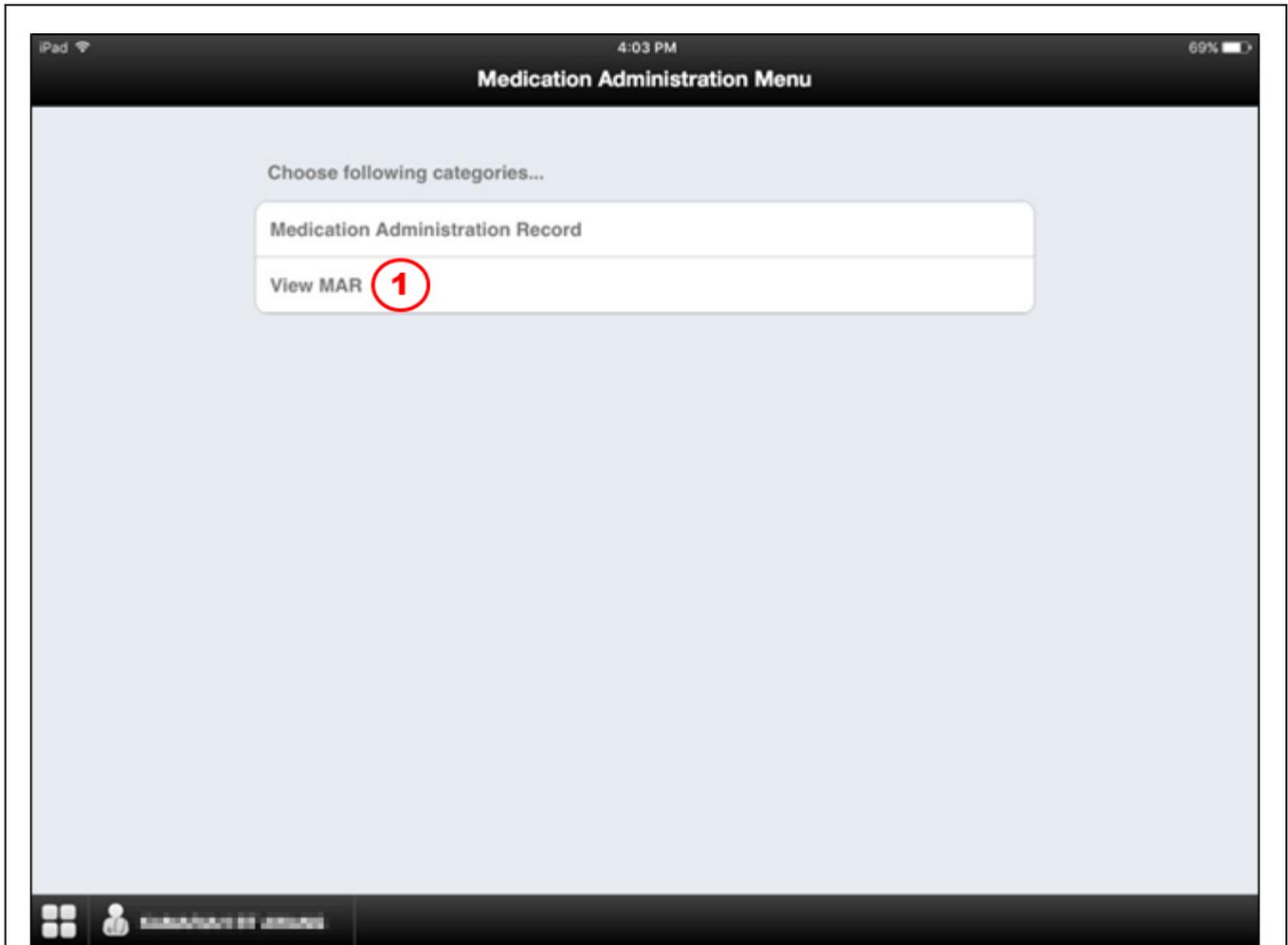


Figure 3.2.3-1 MAR Listing Page

#### STEP 1

Tap on the *View MAR*

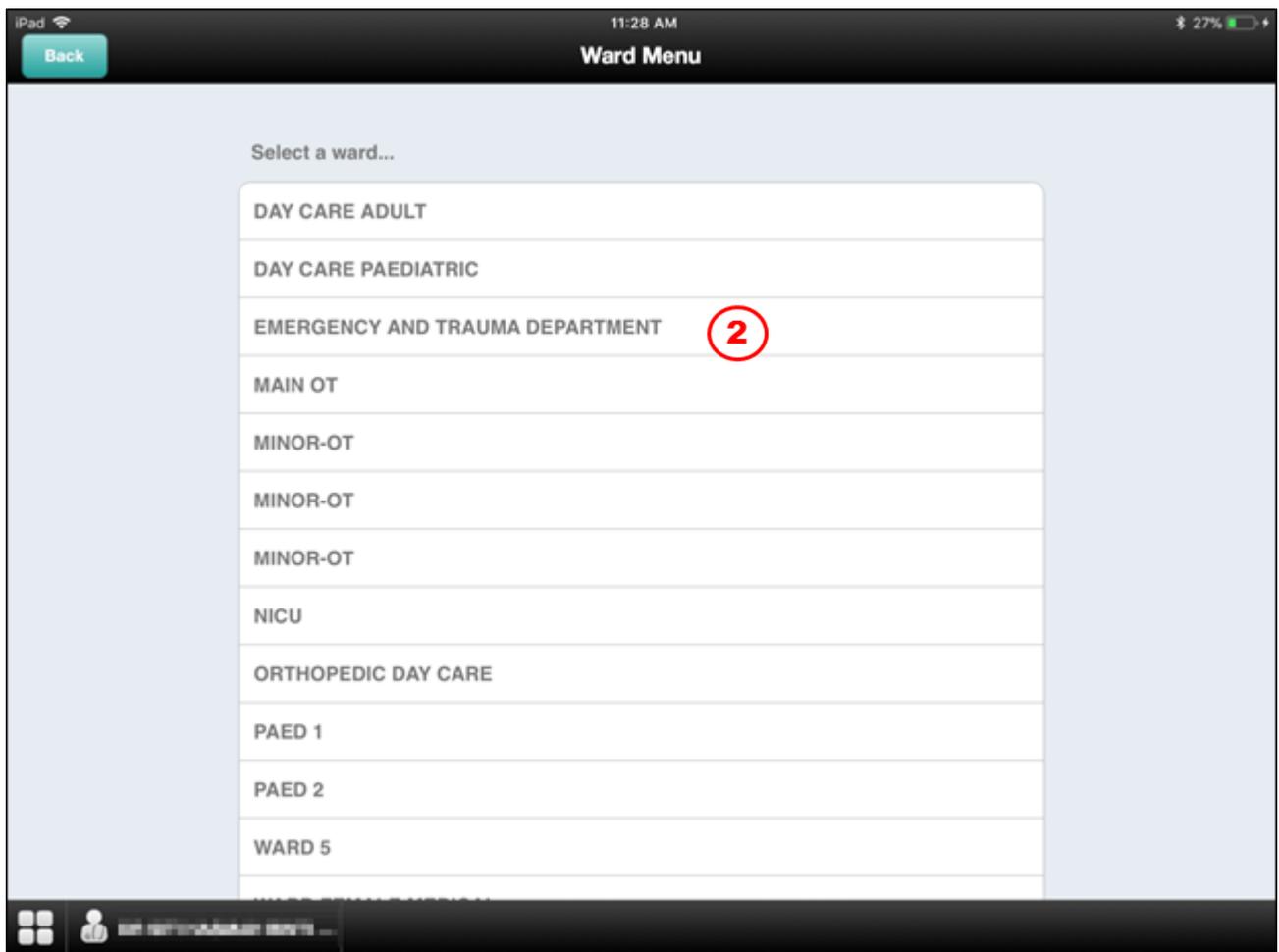


Figure 3.2.3-2 Location Screen Listing Page

**STEP 2**

Tap on the selected location e.g WAD ICU to select patient

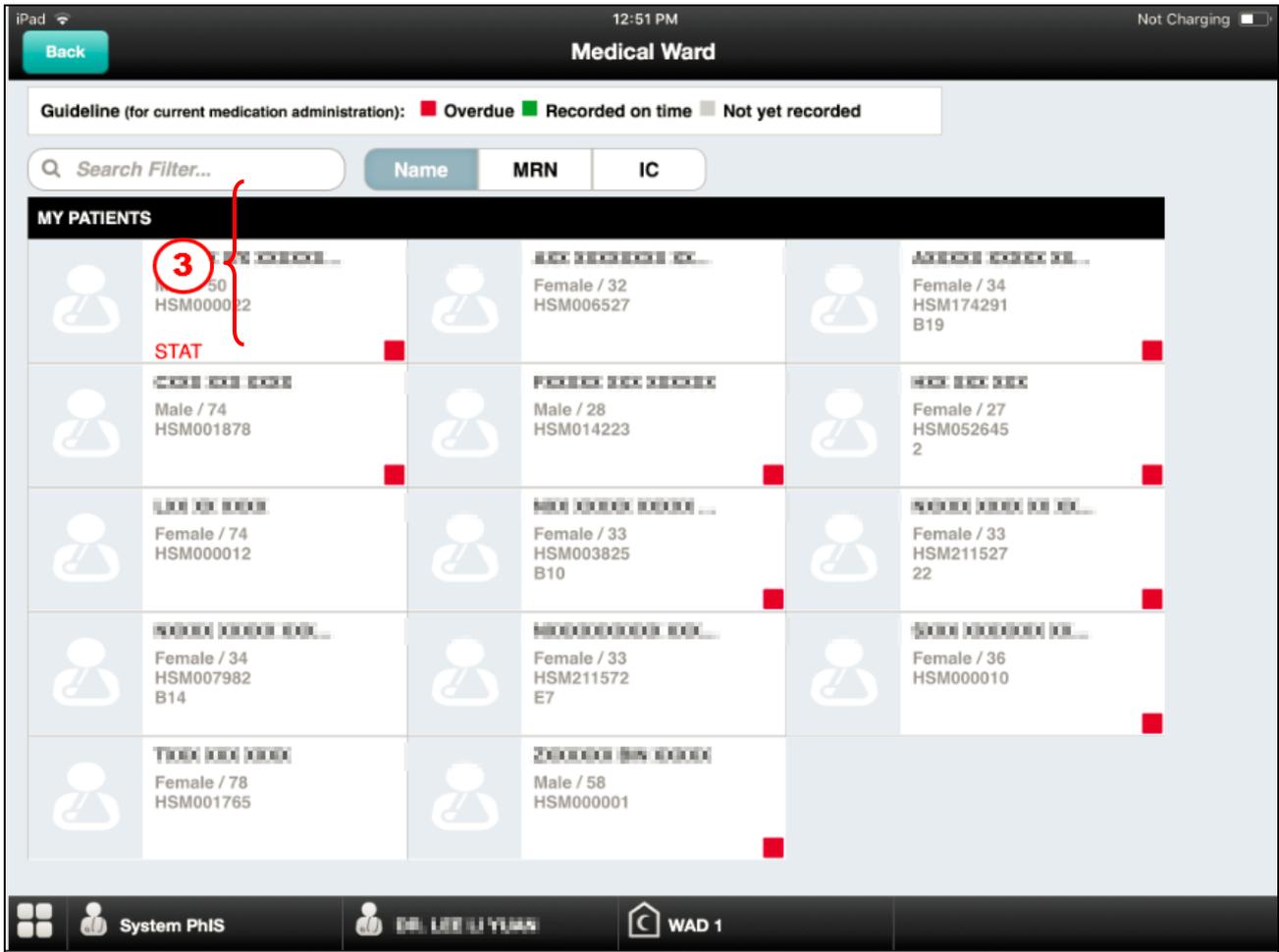


Figure 3.2.3-3 Patient Listing Page

**STEP 3**

Tap on selected patient name or search the patient by using  field. System will display as Figure 3.2.3-4

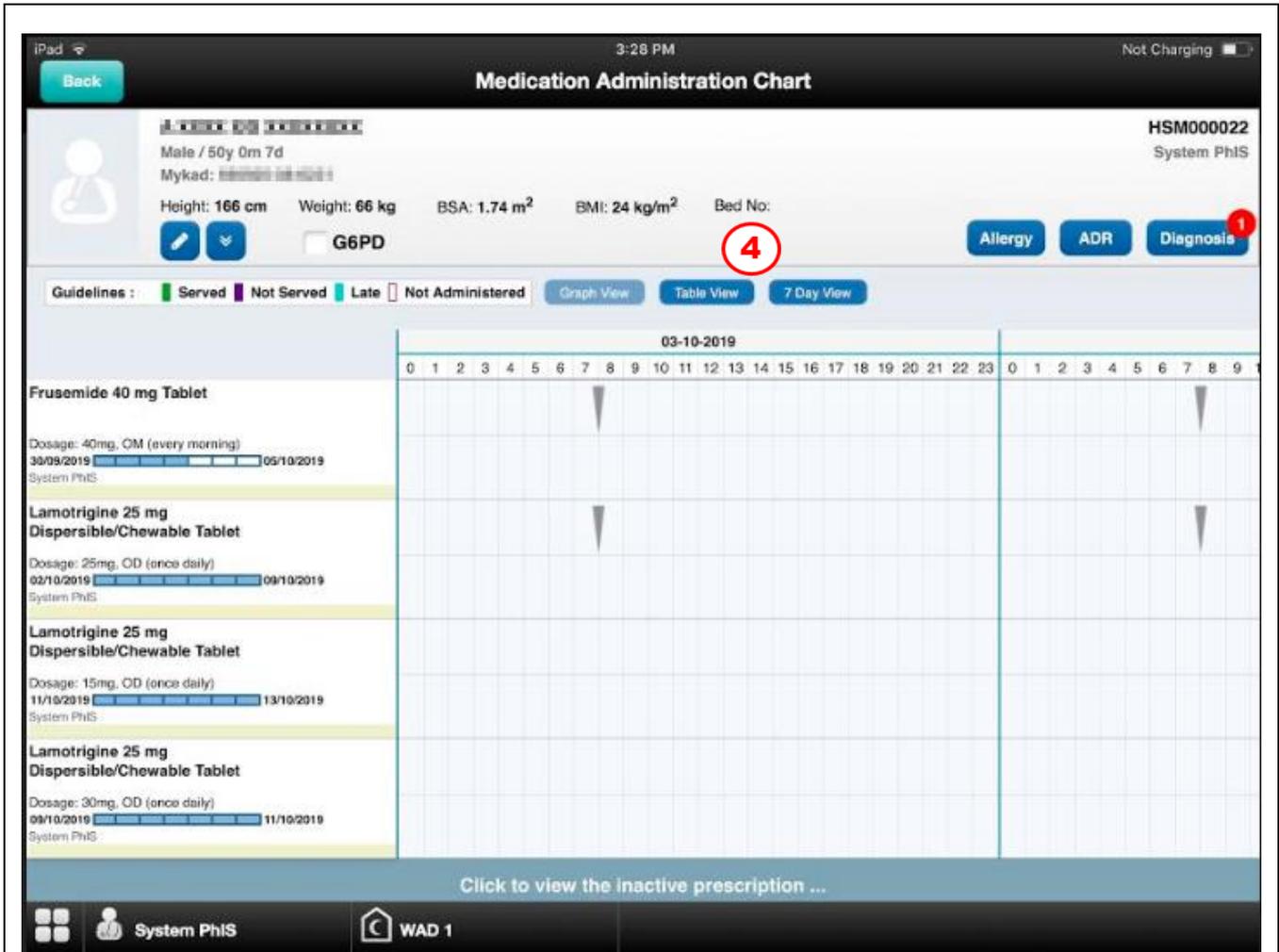


Figure 3.2.3-4 View MAR Graph View

#### STEP 4

Tap on the **7 Day View** button

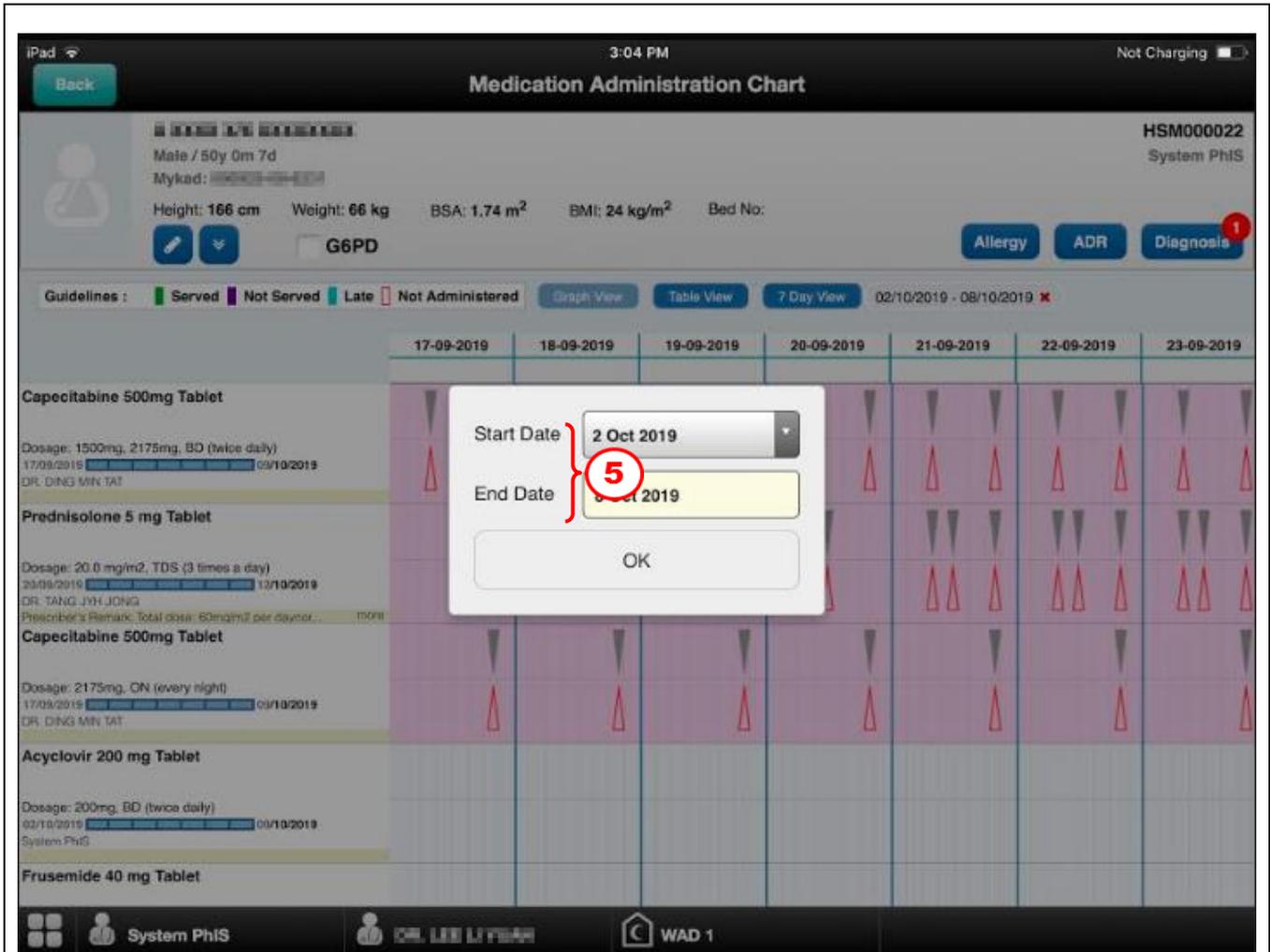


Figure 3.2.3-5 View MAR Graph View

### STEP 5

Enter the **Start Date** and **End Date** then tap on the **OK** button and system will display as Figure 3.2.3-6

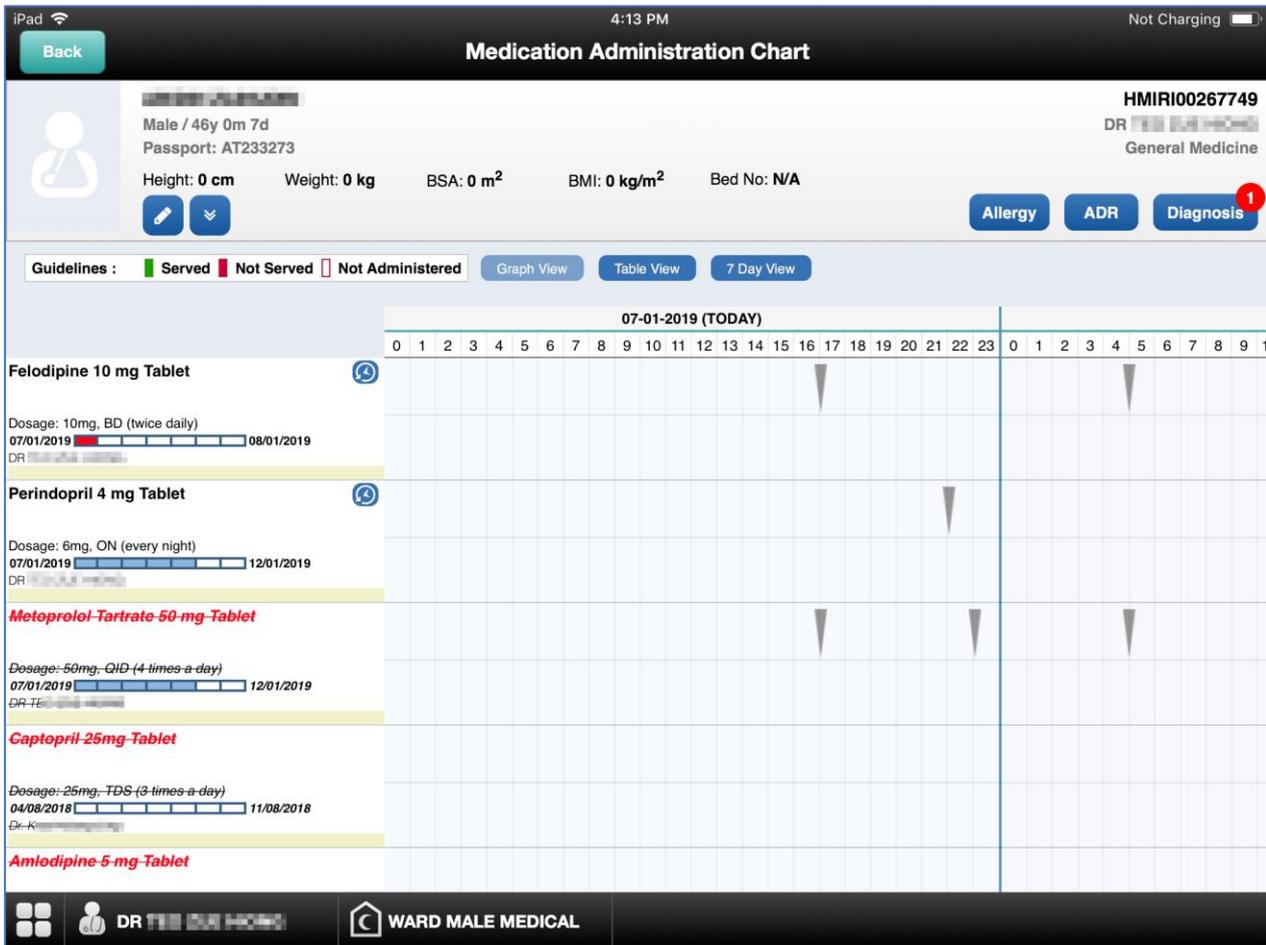
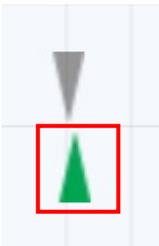
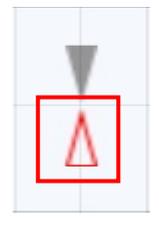


Figure 3.2.3-6 View MAR 7 Days View

**View MAR Legend**

ICON / SCREENSHOT	DESCRIPTION
	Drug Not Serve
<p><b>Prednisolone 5 mg Tablet</b></p> <p>Dosage: 5mg, OD (once daily)</p> <p>18/10/2016 25/10/2016</p> <p>DR FARIDAH BTE SULONG @ AB. HADI</p>	Drug prescribe for 7 days
<p><b>Prednisolone 5 mg Tablet</b></p> <p>Dosage: 10mg, OD (once daily)</p> <p>16/10/2016 21/10/2016</p> <p>DR MUHD FAIZ FAIZUL BIN FAUZI</p> <p>Stock:</p>	Drug to be served remain 3 days

	<p>Drug served</p>
	<p>Drug is not administered</p>
<p><b>Metoprolol-Tartrate-50 mg Tablet</b> </p> <p>Dosage: 50 mg, 07/01/2019 - 12/01/2019, QID (4 times a day), Oral Order date: 07/01/2019 04:14 PM Prescriber: DR </p> <p>Prescriber's Remark :</p>	<p>Dispense medication discontinued/stop by prescriber / doctor</p>

**Table 3.2-1 View MAR Legend**

## 4.0 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

## 5.0 Links to Clinical Modules

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