



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

Full Based

**User Manual
MAR-Mobile**

Version	: 9th EDITION
Document ID	: FB_U. MANUAL_MAR_MOBILE



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Reference ID : FB_U.MANUAL_MAR MOBILE-9th EDITION

Application reference: PhIS& CPS v2.0.1



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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

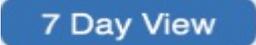
1.3 Organized Sections

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:

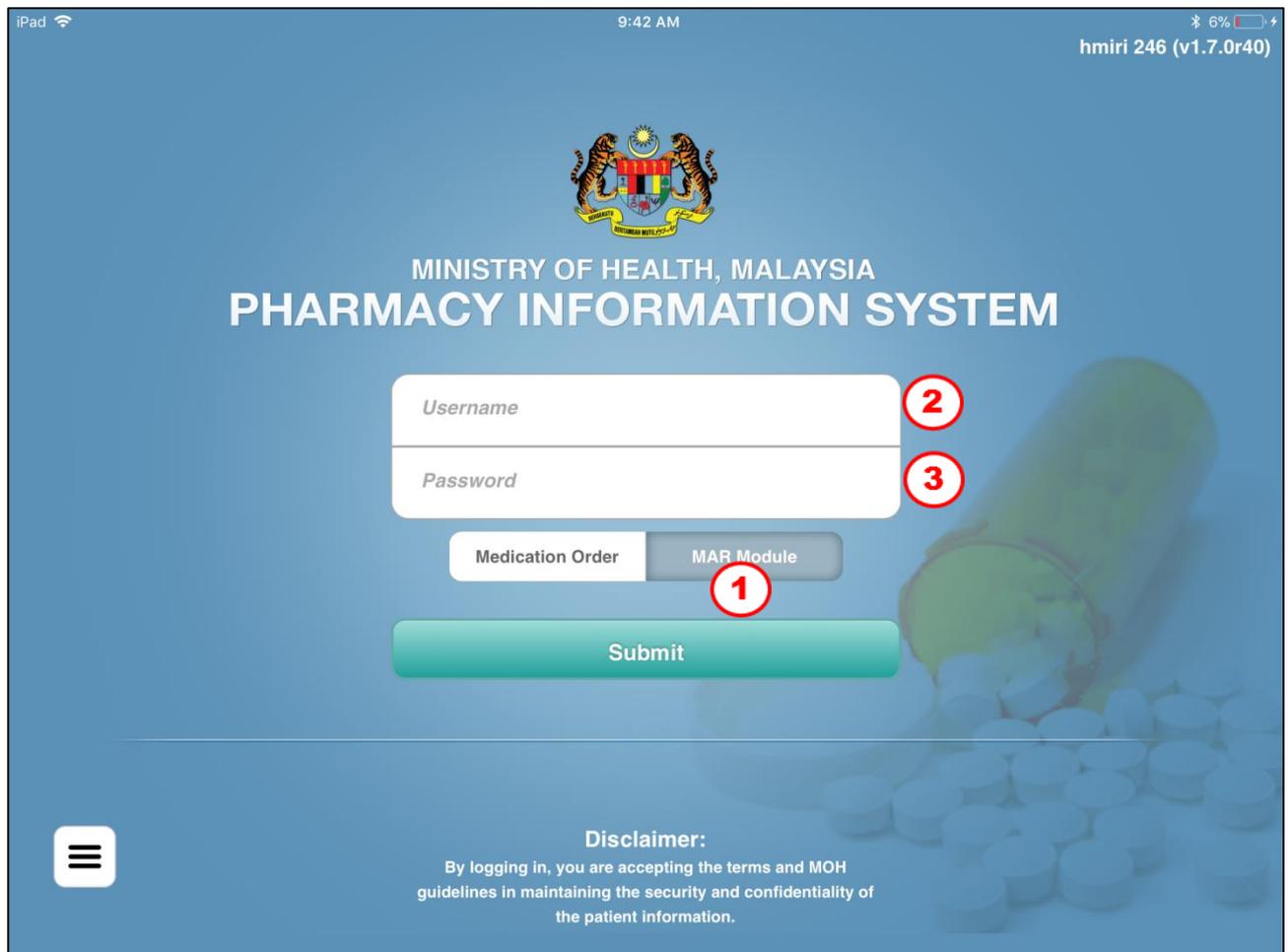


Figure 2.2-1 PhIS Login Page

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.

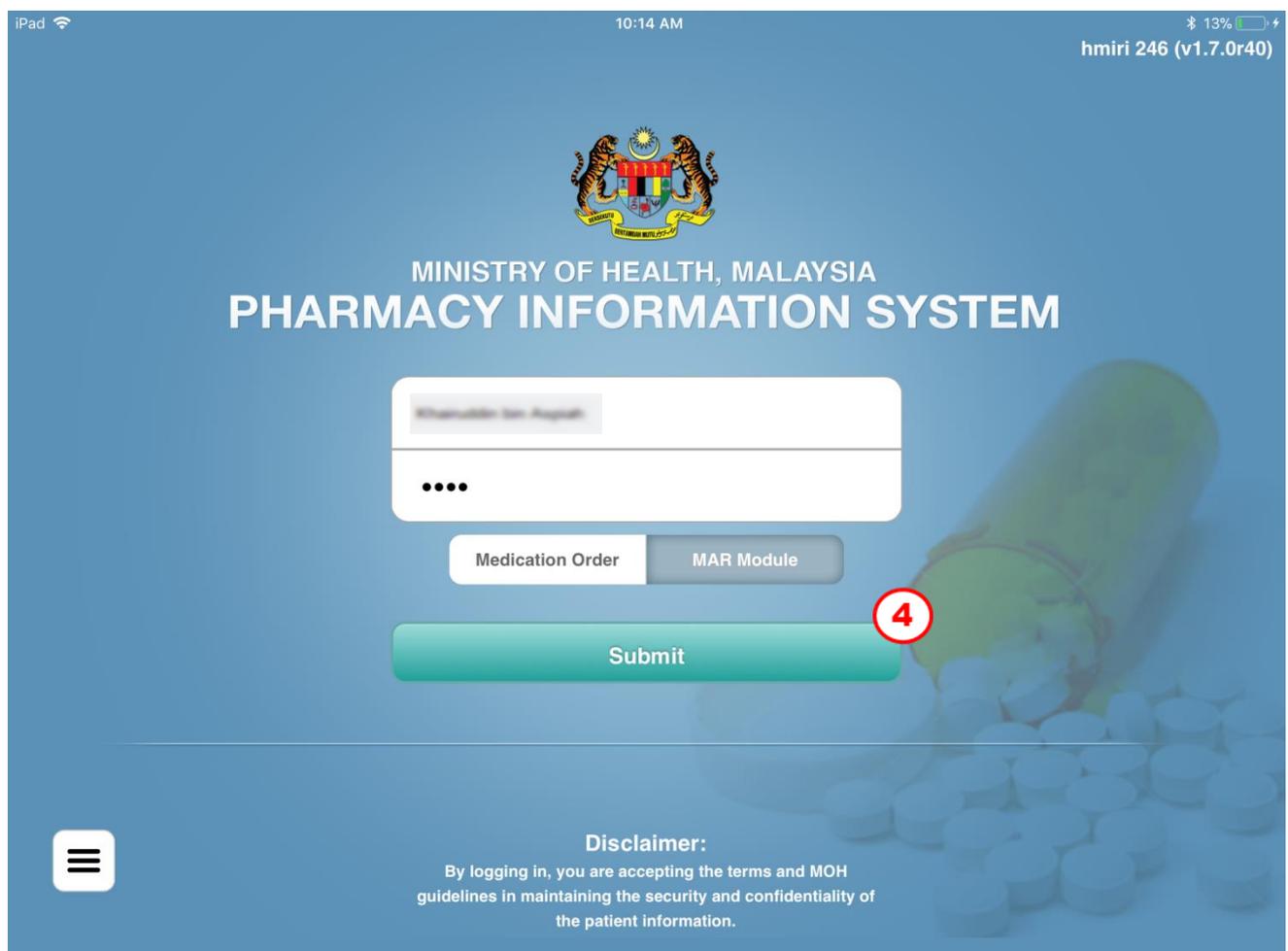


Figure 2.2-3 Enter login details

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.

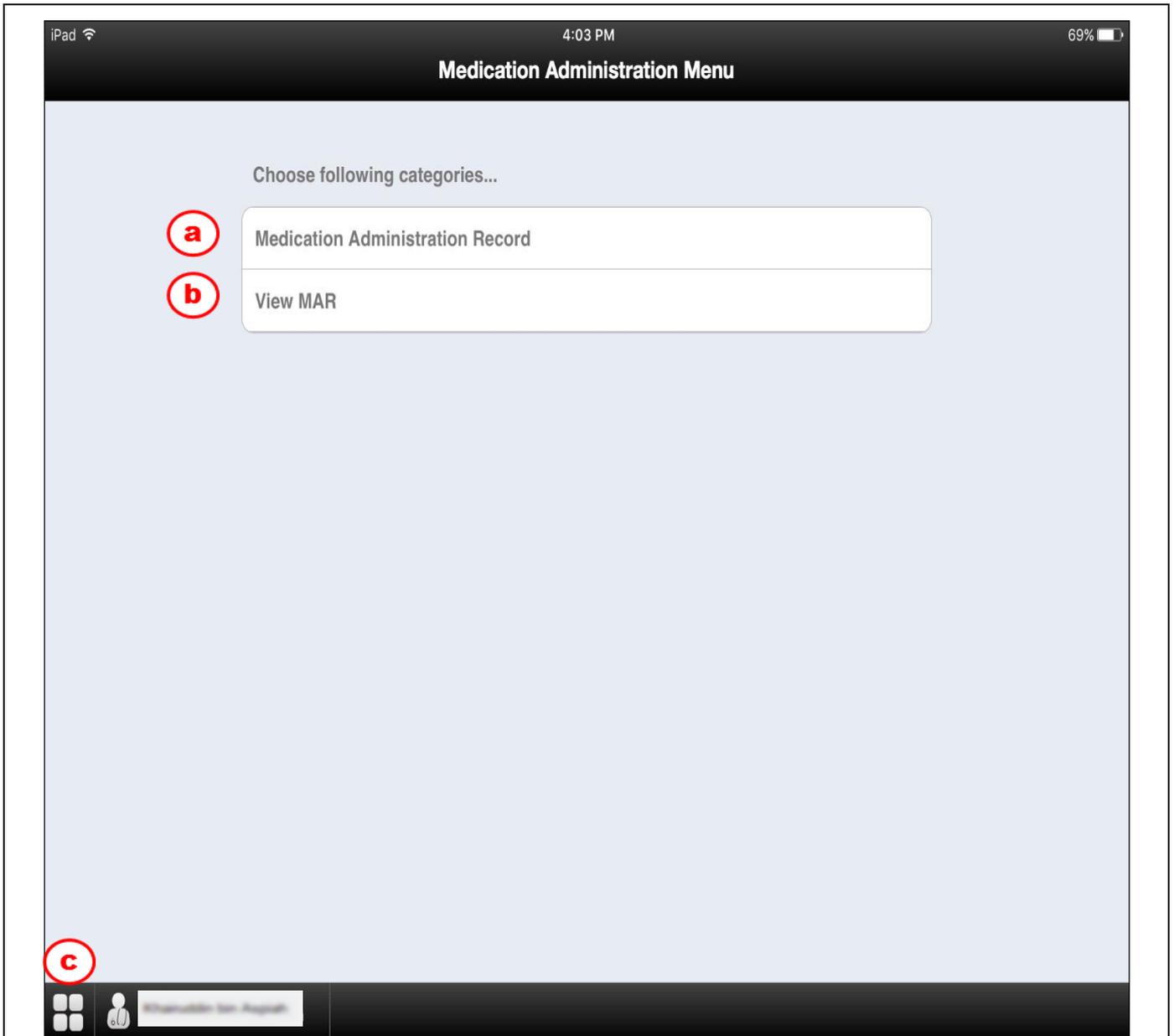


Figure 2.3-1 PhIS Home Page

- 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

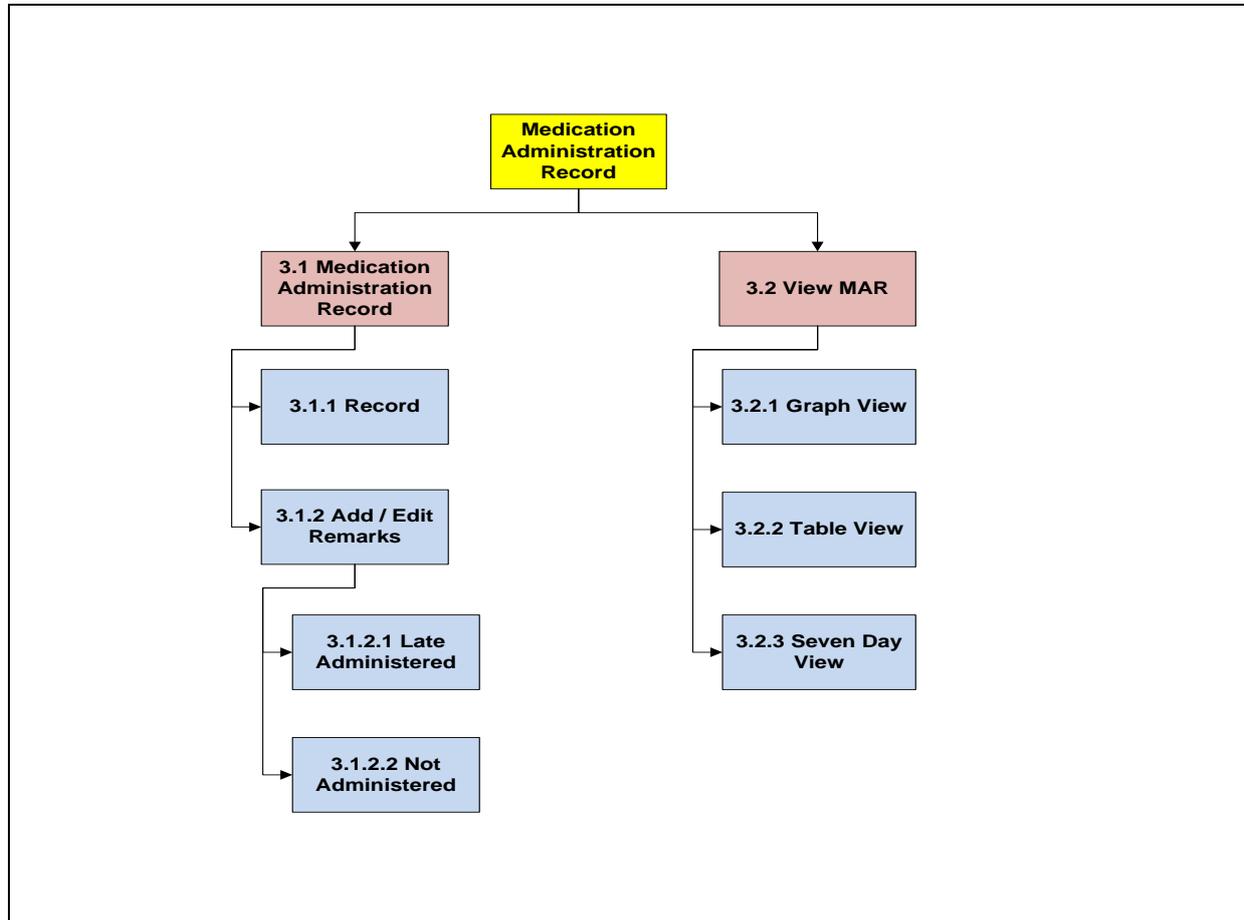


Figure 3.0-1MAR Functional Description

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

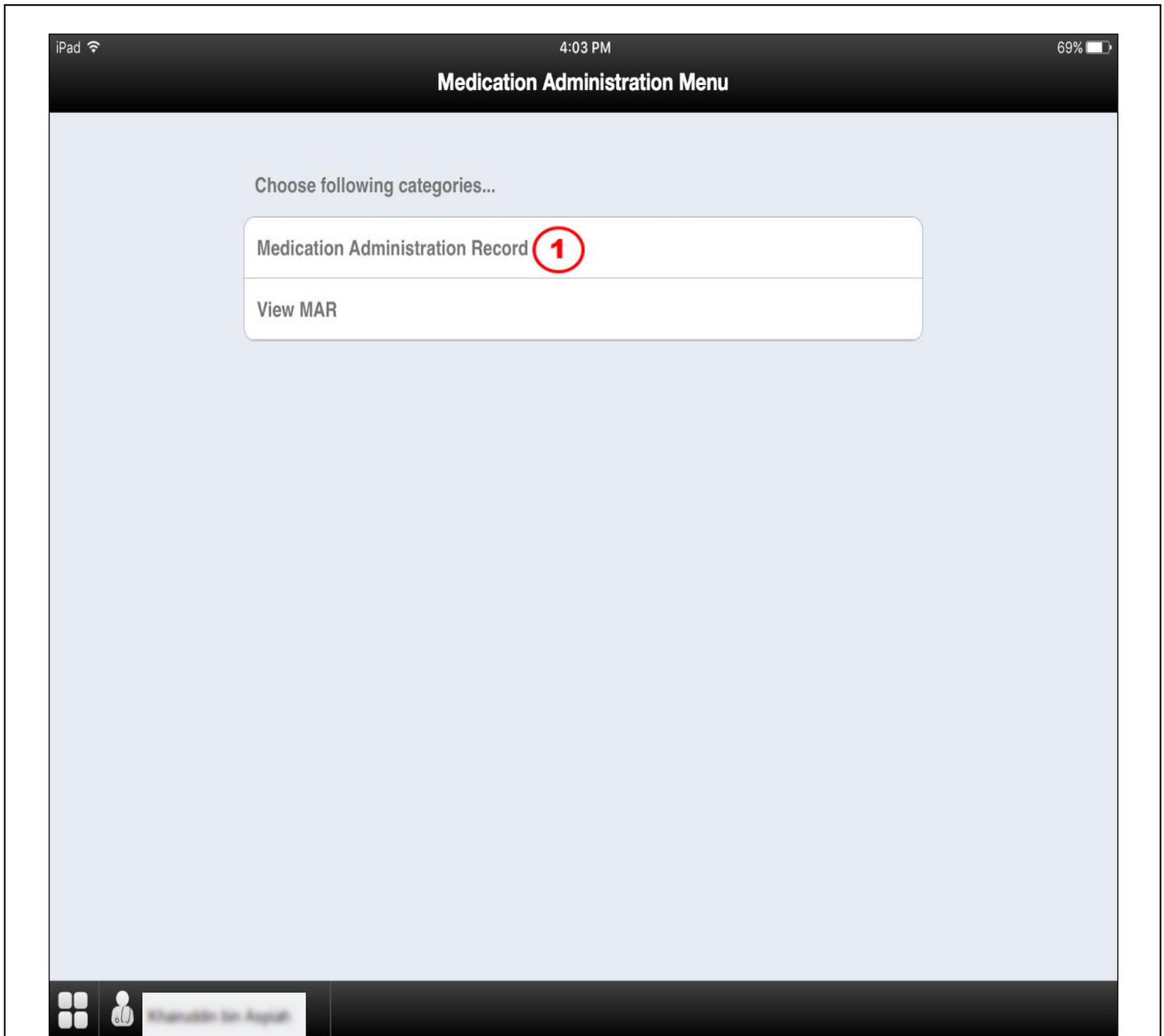


Figure 3.1.1-1 MAR Listing Page

STEP 1

Tap on the **Medication Administration Record**

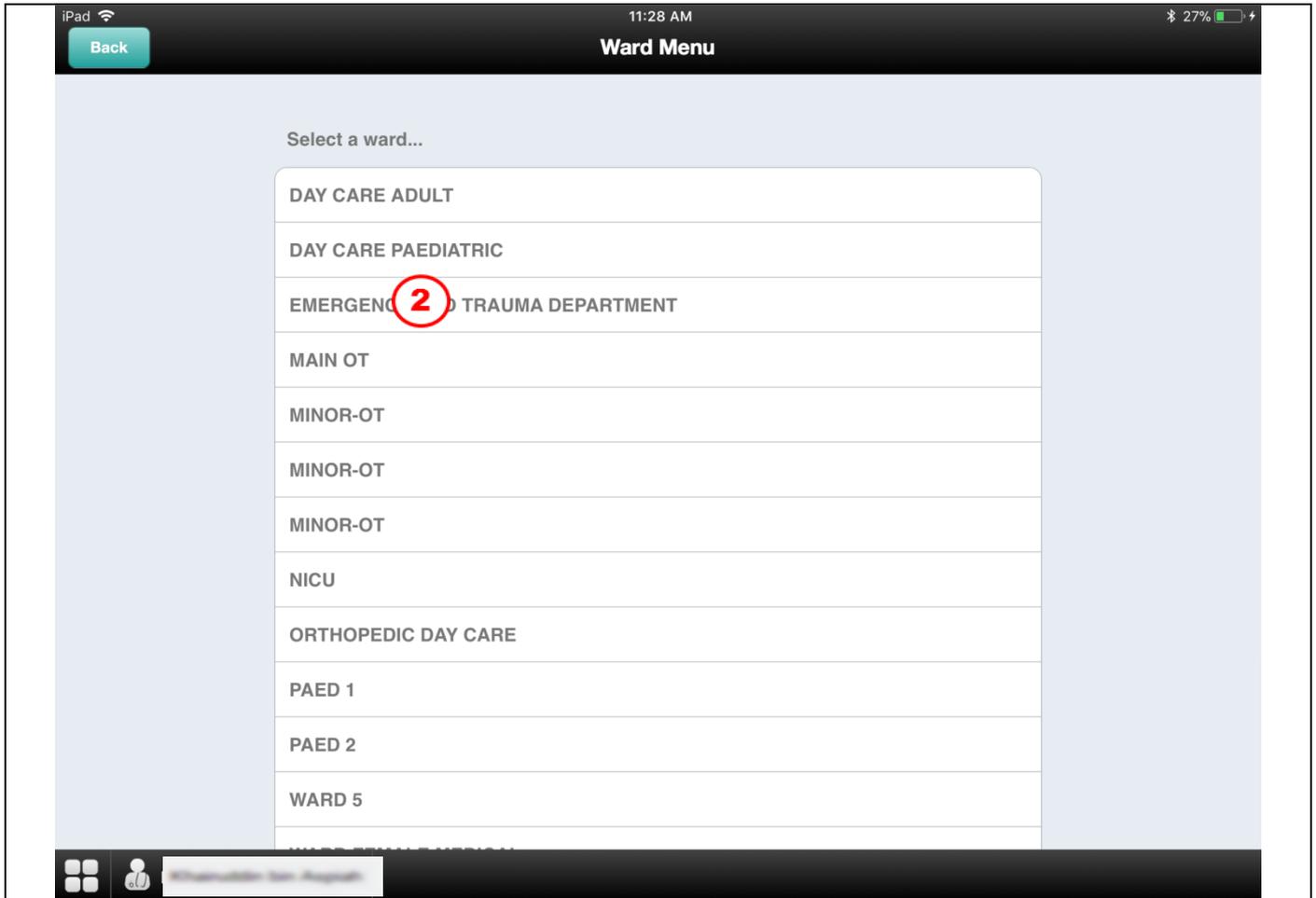


Figure 3.1.1-2 Location Screen Listing Page

STEP 2

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

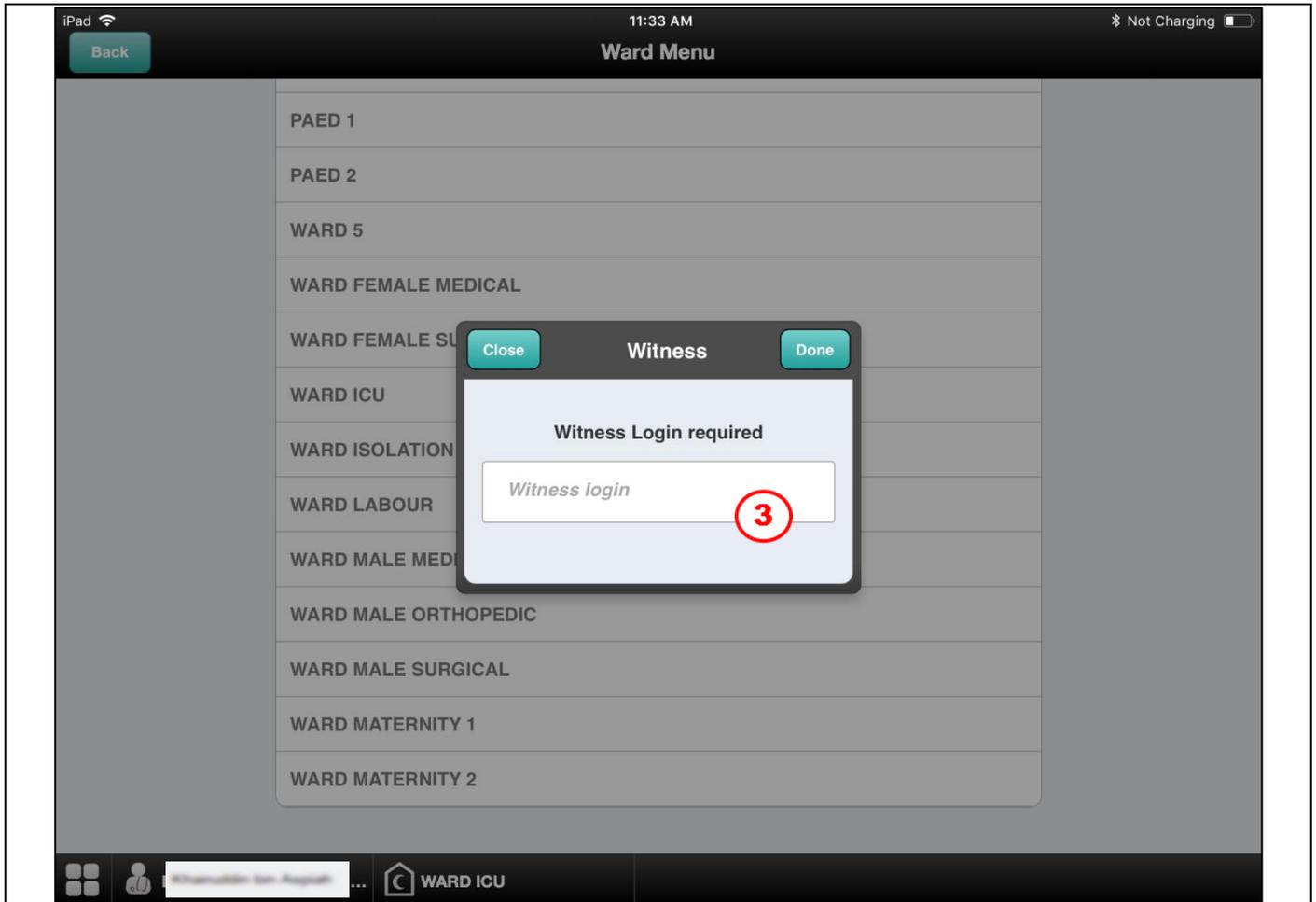


Figure 3.1.1-3 Witness Login Page

STEP 3

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

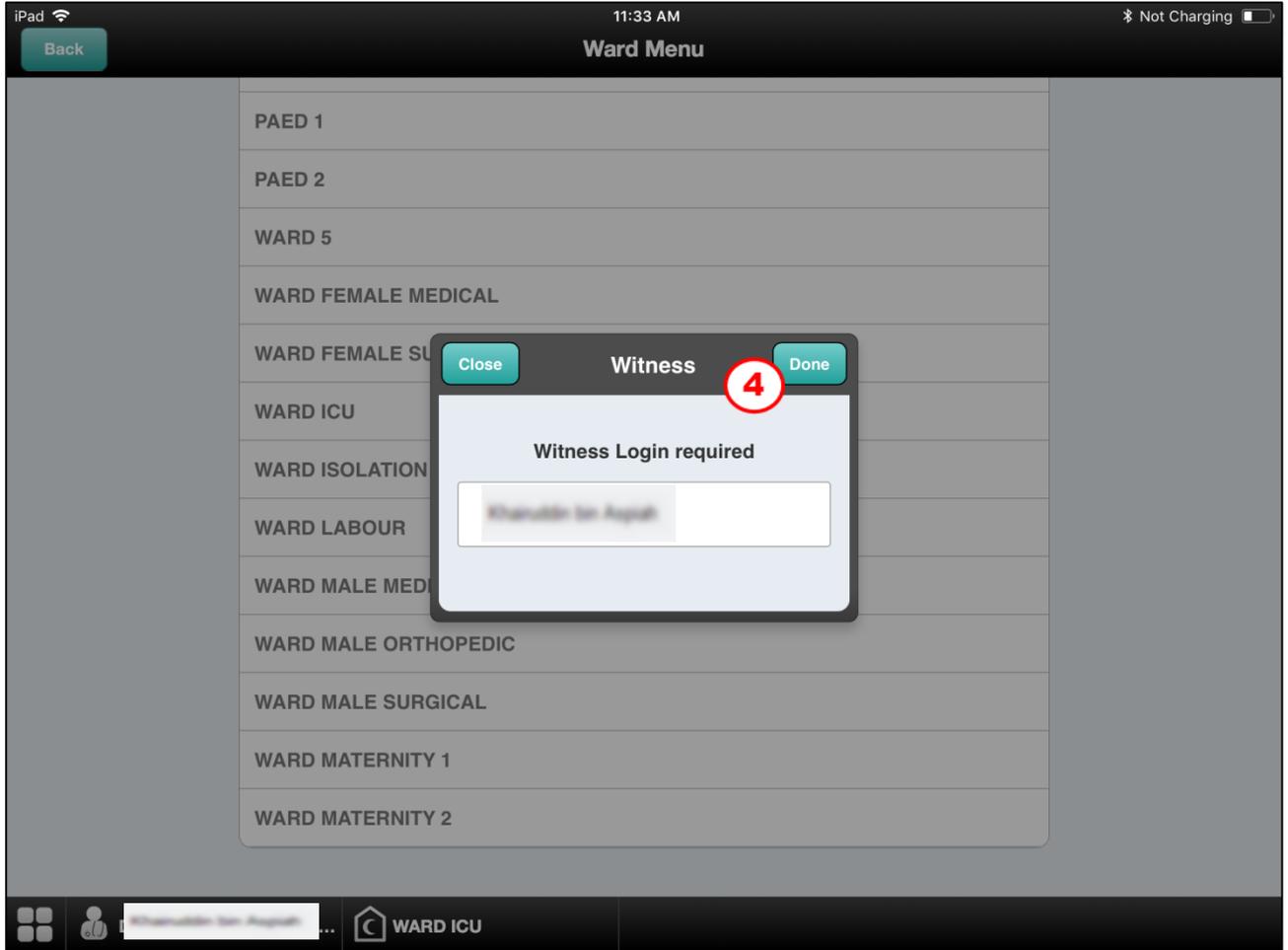


Figure 3.1.1-4 Witness Login Page

STEP 4

Tap on the  button

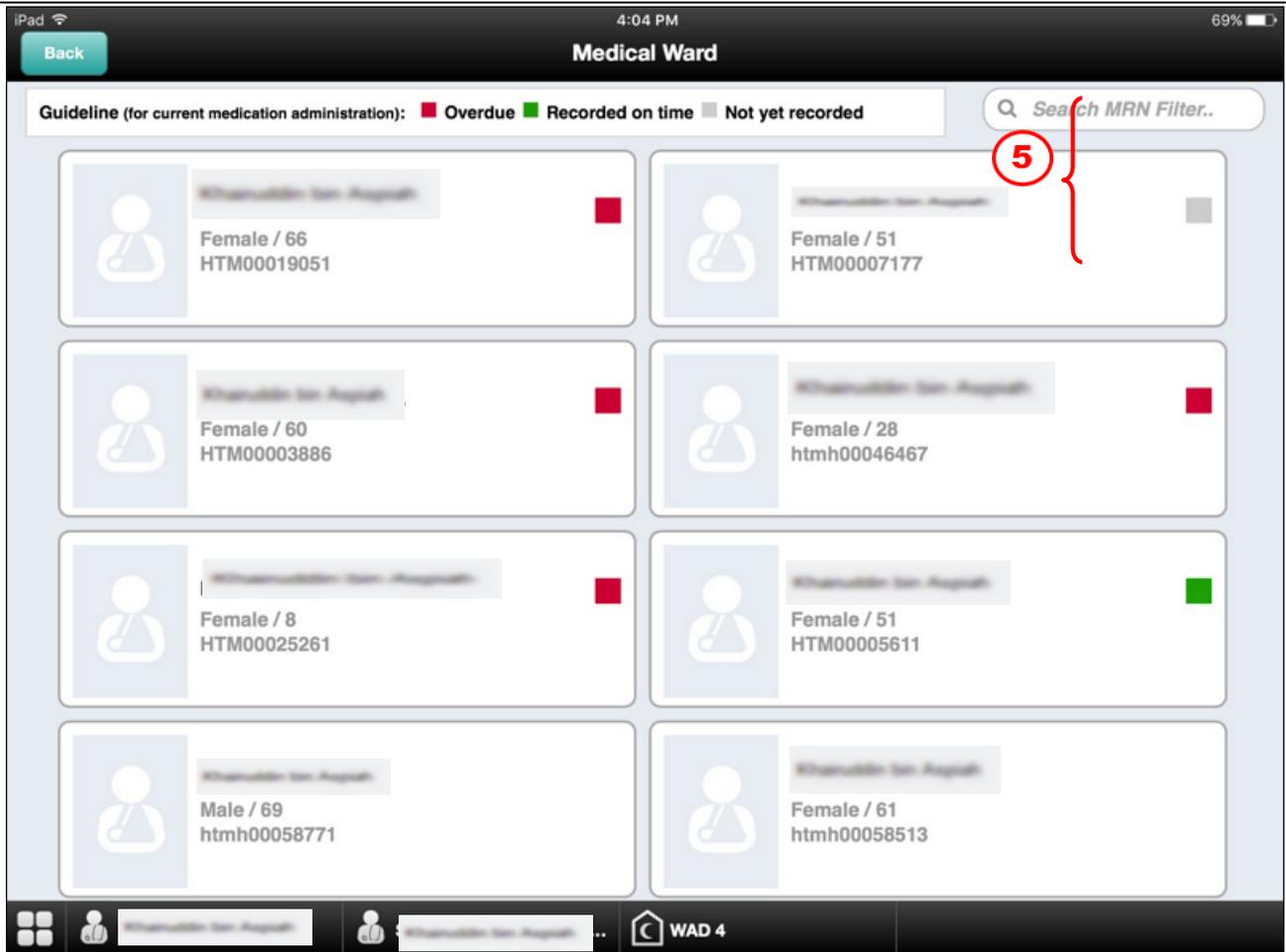


Figure 3.1.1-5 Patient Listing Page

STEP 5

Tap on selected patient name or search the patient by using  Search MRN Filter.. 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: • Type the MRN either full or partial: <i>Example: HPSF00001234 or "1234"</i>
C	IC	Patient visit location	Able to filter and search patient by visit location and prescriber's location.

Table3.1.1-1

Medication Administration Recording

HTM00007177

Female / 51y 4m 16d
Mykad: [Redacted]
Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

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

Drug Name and Dosage Details	Stock	Past	Current	Future
Trimetazidine 20 mg Tablet Dosage: 20 mg, 19/10/2016 - 24/10/2016, TDS (3 times a day), Oral Order date: 19/10/2016 10:00 AM Prescriber: DR [Redacted]	-No schedule-	19/10/2016 4:00 pm 20 mg	[Record 6] 20/10/2016 12:00 am 20 mg	
Acyclovir 200 mg Tablet Dosage: 200 mg, 19/10/2016 - 24/10/2016, BD (twice daily), Oral Order date: 19/10/2016 10:00 AM Prescriber: DR [Redacted]	-No schedule-	-No schedule-	19/10/2016 08:00 pm 200 mg	

Figure 3.1.1-6 Medication Administration Recording

STEP 6

Tap on the **Record** button and system will display as Figure 3.1.1-7

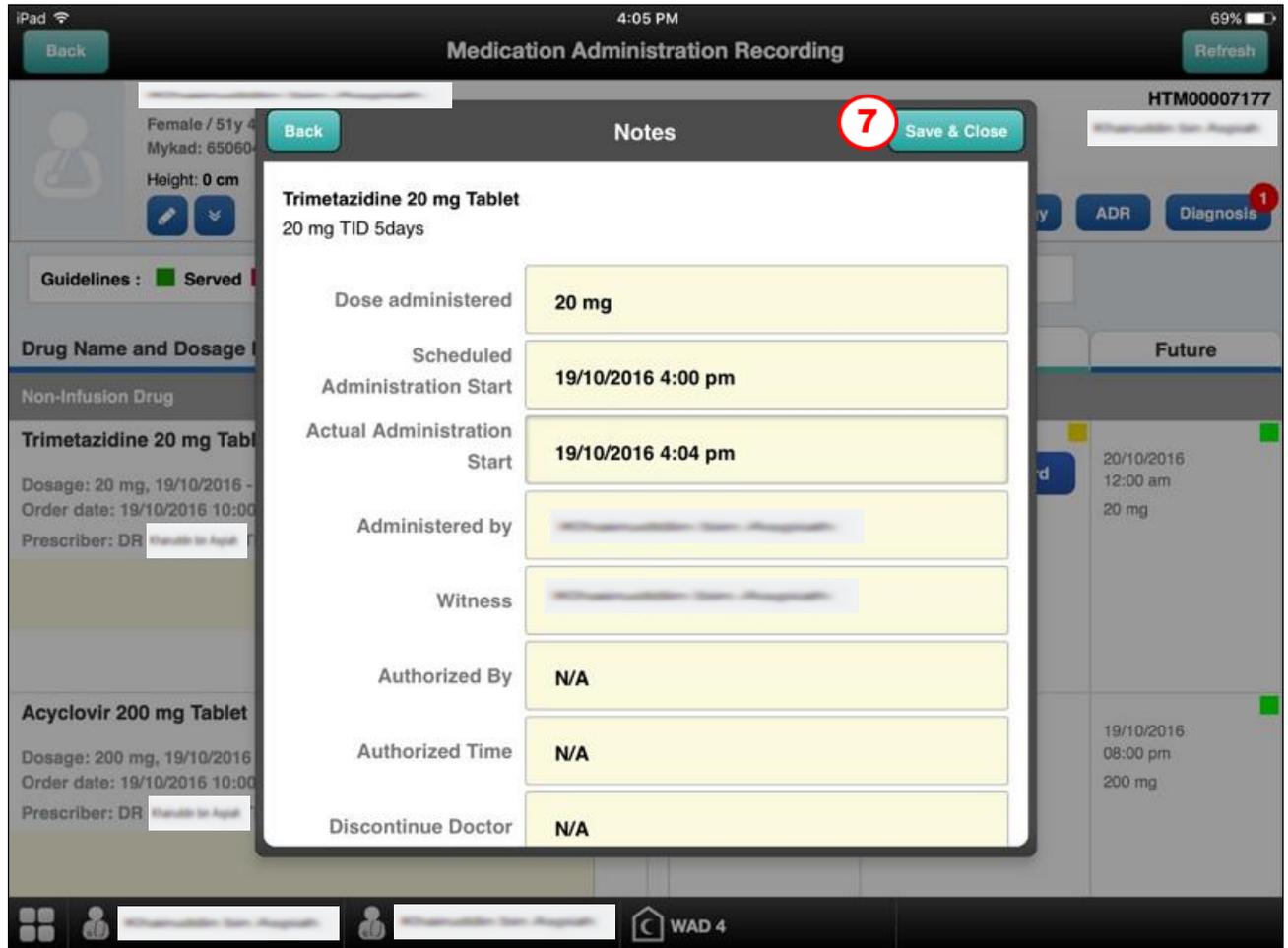
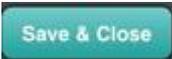


Figure 3.1.1-7 Medication Administration Recording

STEP 7

Tap on the  button to save the record

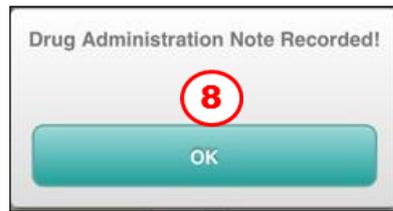
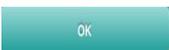


Figure 3.1.1-8 Medication Administration Recording

STEP 8

Tap on the  button and system will display as Figure 3.1.1-9

iPad 4:05 PM 69%

Medication Administration Recording Refresh

HTM00007177

Female / 51y 4m 16d
Mykad: [Redacted]
Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

Allergy ADR Diagnosis ¹

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

Drug Name and Dosage Details	Stock	Past	Current	Future
Non-Infusion Drug				
Trimetazidine 20 mg Tablet Dosage: 20 mg, 19/10/2016 - 24/10/2016, TDS (3 times a day), Oral Order date: 19/10/2016 10:00 AM Prescriber: DR [Redacted]	-No schedule-	19/10/2016 4:05 pm 20 mg	Complete 20 mg	20/10/2016 12:00 am 20 mg
Acyclovir 200 mg Tablet Dosage: 200 mg, 19/10/2016 - 24/10/2016, BD (twice daily), Oral Order date: 19/10/2016 10:00 AM Prescriber: DR [Redacted]	-No schedule-	-No schedule-	-No schedule-	19/10/2016 08:00 pm 200 mg

WAD 4

Figure 3.1.1-9 Medication Administration Recording

3.1.2 Add / Edit Remarks

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

3.1.2.1 Late Administered

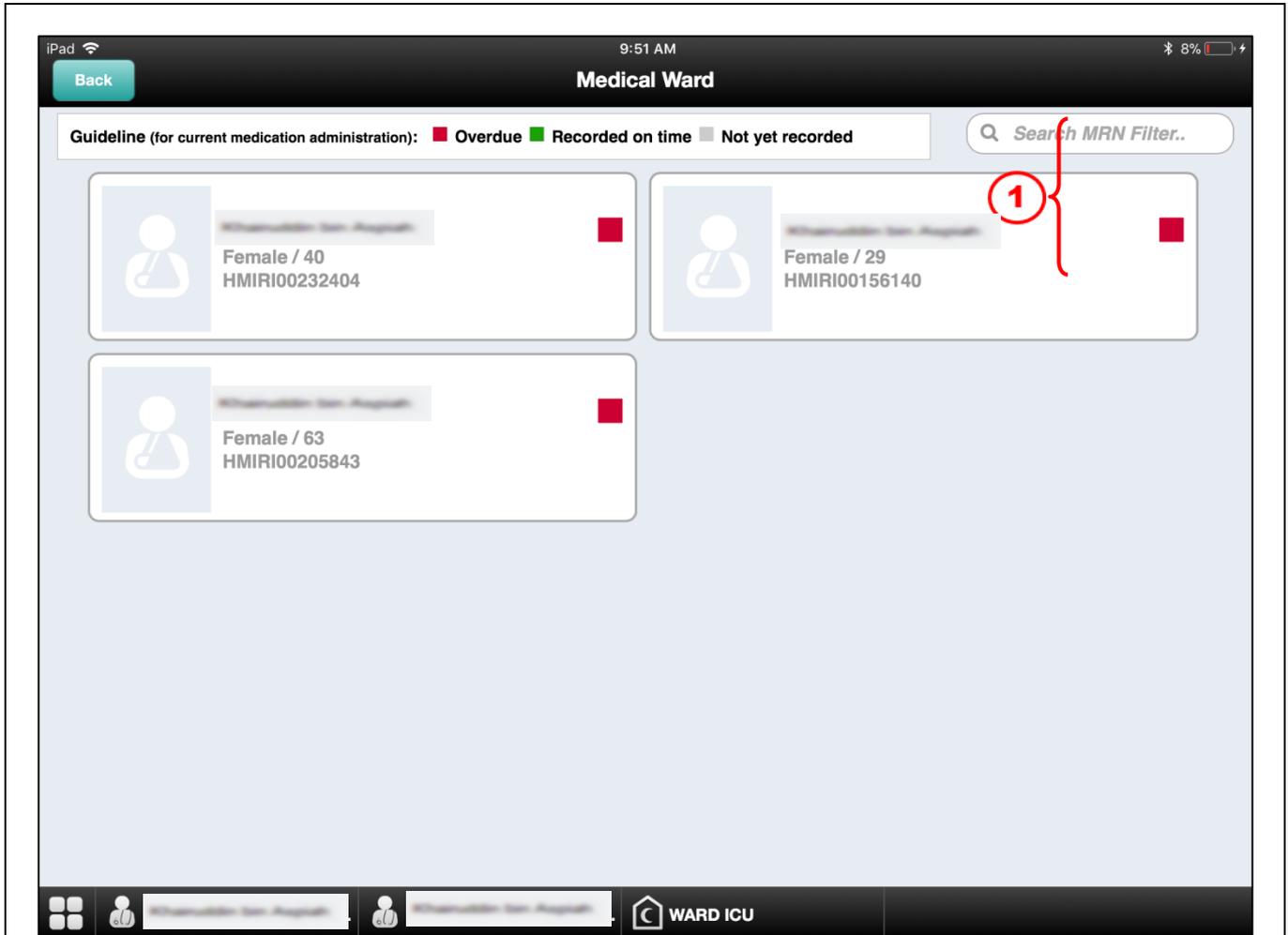


Figure 3.1.2.1-1 Patient Listing Page

STEP 1

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

Medication Administration Recording

Female / 29y 10m 2d
Mykad
Height: 149 cm Weight: 52 kg BSA: 1.47 m² BMI: 23.4 kg/m²

HMIRI00156140

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

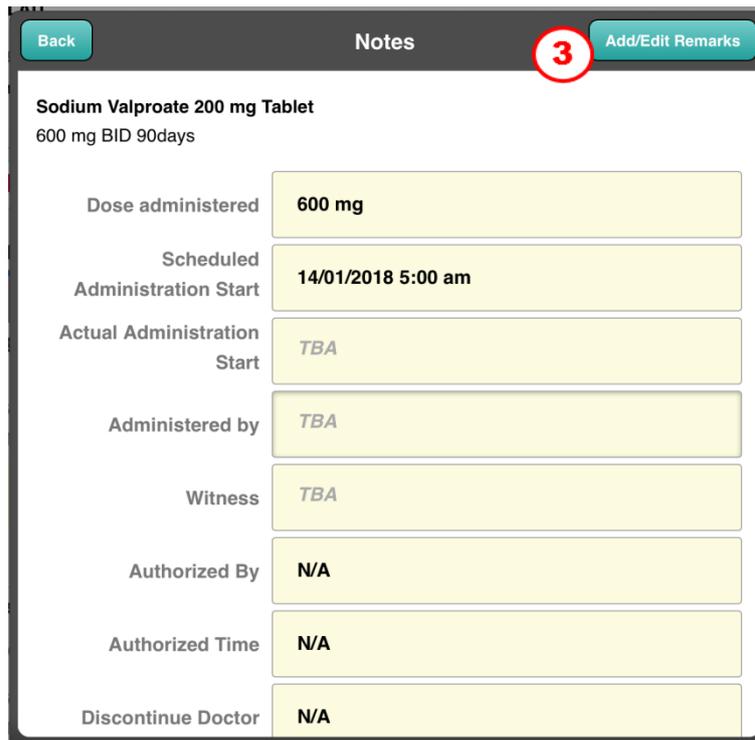
Drug Name and Dosage Details	Stock	Past	Current	Future
Non-Infusion Drug				
Sodium Valproate 200 mg Tablet Dosage: 600 mg, 11/01/2018 - 11/04/2018, BD (twice daily), Oral Order date: 11/01/2018 09:16 AM Prescriber: DR [REDACTED]	14/01/2018 05:00 am 600 mg		■ 2 -No schedule-	-No schedule-
Lamotrigine 25 mg Dispersible/Chewable Tablet Dosage: 50 mg, 50 mg, 11/01/2018 - 11/04/2018, BD (twice daily), Chew Order date: 11/01/2018 09:16 AM Prescriber: DR LEE KEE TAT	14/01/2018 08:00 am 50 mg		■ -No schedule-	-No schedule-

WARD ICU

Figure 3.1.2.1-2 Medication Administration Recording

STEP 2

Tap on column with ■ Overdue icon



Notes	
Sodium Valproate 200 mg Tablet 600 mg BID 90days	
Dose administered	600 mg
Scheduled Administration Start	14/01/2018 5:00 am
Actual Administration Start	TBA
Administered by	TBA
Witness	TBA
Authorized By	N/A
Authorized Time	N/A
Discontinue Doctor	N/A

Figure 3.1.2.1-3 Medication Administration Recording

STEP 3

Tap on column  button

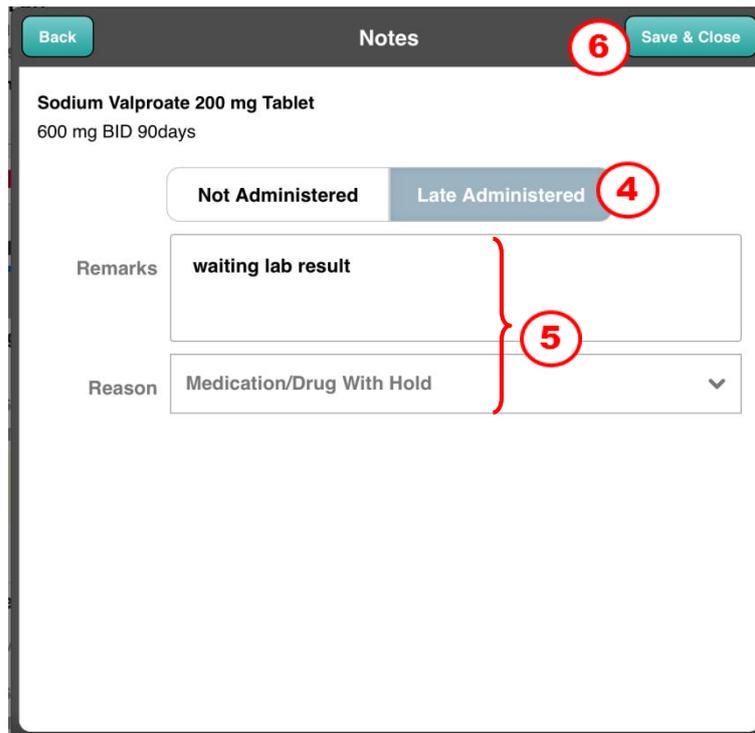


Figure 3.1.2.1-4 Medication Administration Recording

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

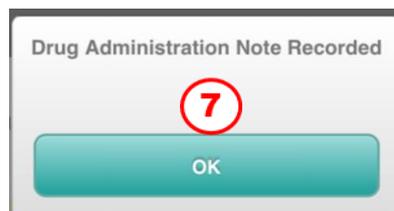


Figure 3.1.2.1-5 Medication Administration Recording

STEP 7

Tap on the  button and system will display as Figure 3.1.2.1-6

iPad
10:46 AM
Not Charging

Back
Refresh

Medication Administration Recording

Female / 29y 10m 2d
Mykad: [REDACTED]

Height: 149 cm Weight: 52 kg BSA: 1.47 m² BMI: 23.4 kg/m²

HMIRI00156140

Allergy
ADR
Diagnosis 1

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

Drug Name and Dosage Details	Stock	Past	Current	Future
Non-Infusion Drug				
<p>Sodium Valproate 200 mg Tablet ✎</p> <p>Dosage: 600 mg, 11/01/2018 - 11/04/2018, BD (twice daily), Oral Order date: 11/01/2018 09:16 AM Prescriber: DR [REDACTED]</p>	<div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div>	<p>14/01/2018 05:00 am 600 mg</p>	<div style="background-color: cyan; width: 10px; height: 10px; margin: 0 auto;"></div> <p>-No schedule-</p>	<p>-No schedule-</p>
<p>Lamotrigine 25 mg Dispersible/Chewable Tablet ✎</p> <p>Dosage: 50 mg,50 mg, 11/01/2018 - 11/04/2018, BD (twice daily), Chew Order date: 11/01/2018 09:16 AM Prescriber: DR [REDACTED]</p>	<div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div> <div style="background-color: red; width: 10px; height: 10px; margin-bottom: 5px;"></div>	<p>14/01/2018 08:00 am 50 mg</p>	<div style="background-color: red; width: 10px; height: 10px; margin: 0 auto;"></div> <p>-No schedule-</p>	<p>-No schedule-</p>

☰
 [REDACTED]
 [REDACTED]
 WARD ICU

Figure 3.1.2.1-6 Medication Administration Recording

3.1.2.2 Not Administered

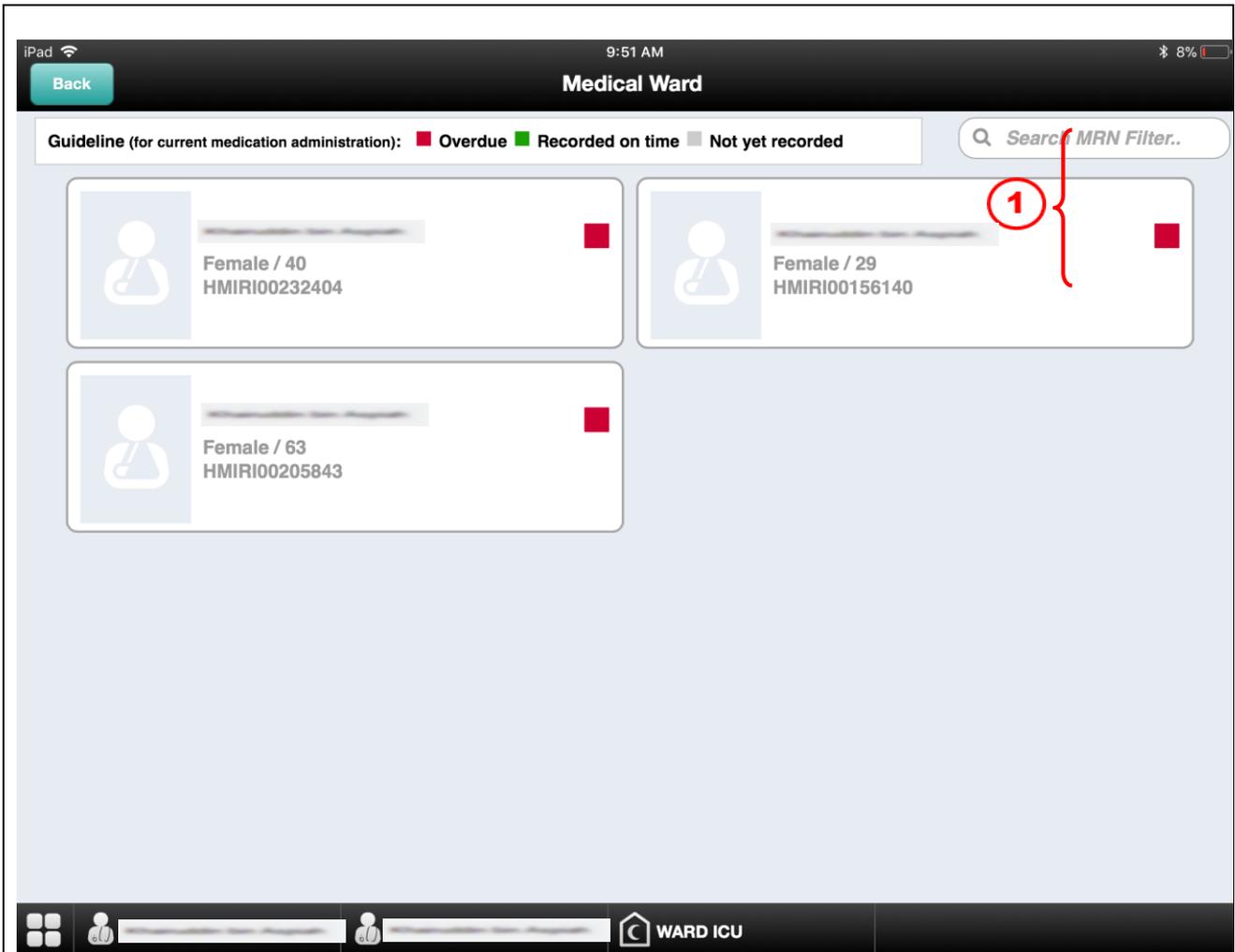


Figure 3.1.2.2-1 Patient Listing Page

STEP 1

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

iPad 10:36 AM 18% Refresh

Medication Administration Recording

HMIRI00232404

Female / 40y 4m 29d
Mykad: [redacted]
Height: 300 cm Weight: 65 kg BSA: 2.33 m² BMI: 7.2 kg/m²

Allergy ADR Diagnosis ¹

Guidelines : Served Overdue Withold Not Serve Due Late Future Dose Discontinue

<p>Levetiracetam 500 mg Tablet </p> <p>Dosage: 500 mg, 22/02/2018 - 22/07/2018, BD (twice daily), Oral Order date: 22/02/2018 09:18 AM Prescriber: DR [redacted]</p>	<p>27/02/2018 05:00 am 500 mg</p>	<p>2 </p> <p>-No schedule-</p>	<p>-No schedule-</p>
<p>Sodium Valproate 200 mg Tablet </p> <p>Dosage: 600 mg, 22/02/2018 - 22/07/2018, BD (twice daily), Oral Order date: 22/02/2018 09:18 AM Prescriber: DR [redacted]</p>	<p>27/02/2018 05:00 am 600 mg</p>	<p></p> <p>-No schedule-</p>	<p>-No schedule-</p>

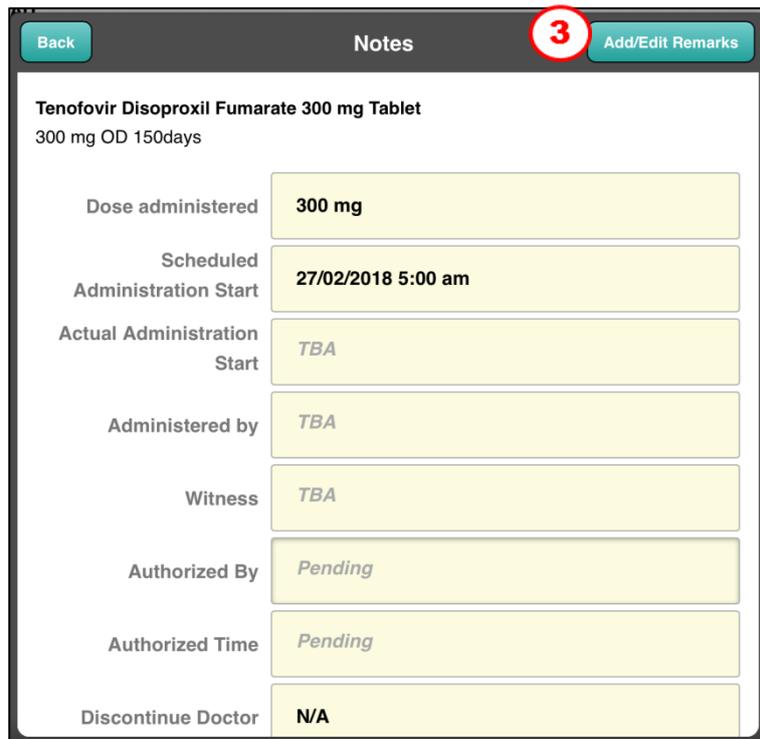
Infusion Drug

WARD ICU

Figure 3.1.2.2-Medication Administration Recording

STEP 2

Tap on column with Overdue icon



Notes	
Tenofovir Disoproxil Fumarate 300 mg Tablet	
300 mg OD 150days	
Dose administered	300 mg
Scheduled Administration Start	27/02/2018 5:00 am
Actual Administration Start	TBA
Administered by	TBA
Witness	TBA
Authorized By	Pending
Authorized Time	Pending
Discontinue Doctor	N/A

Figure 3.1.2.2-3 Medication Administration Recording

STEP 3

Tap on column  button

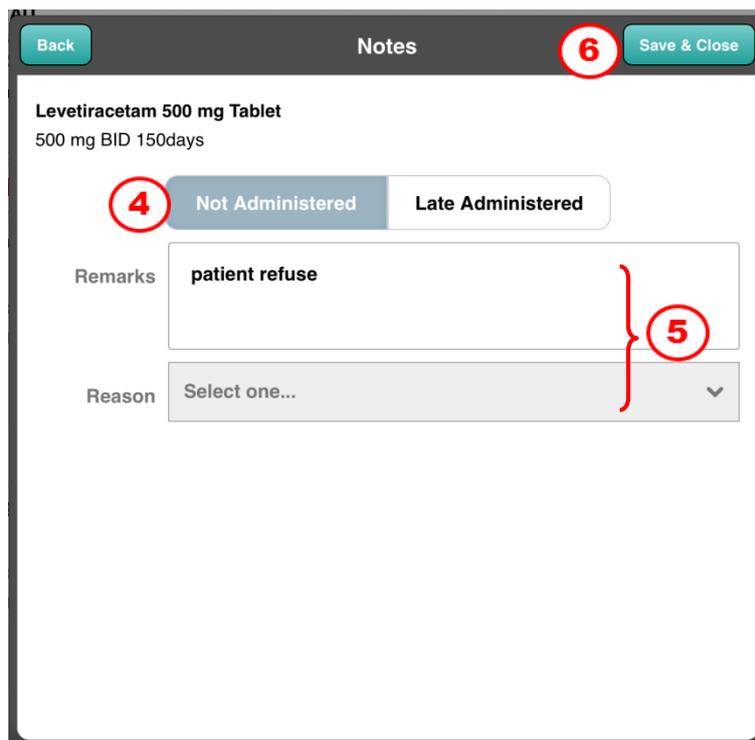


Figure 3.1.2.2-4 Medication Administration Recording

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

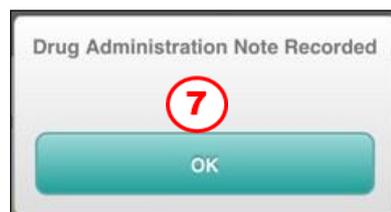
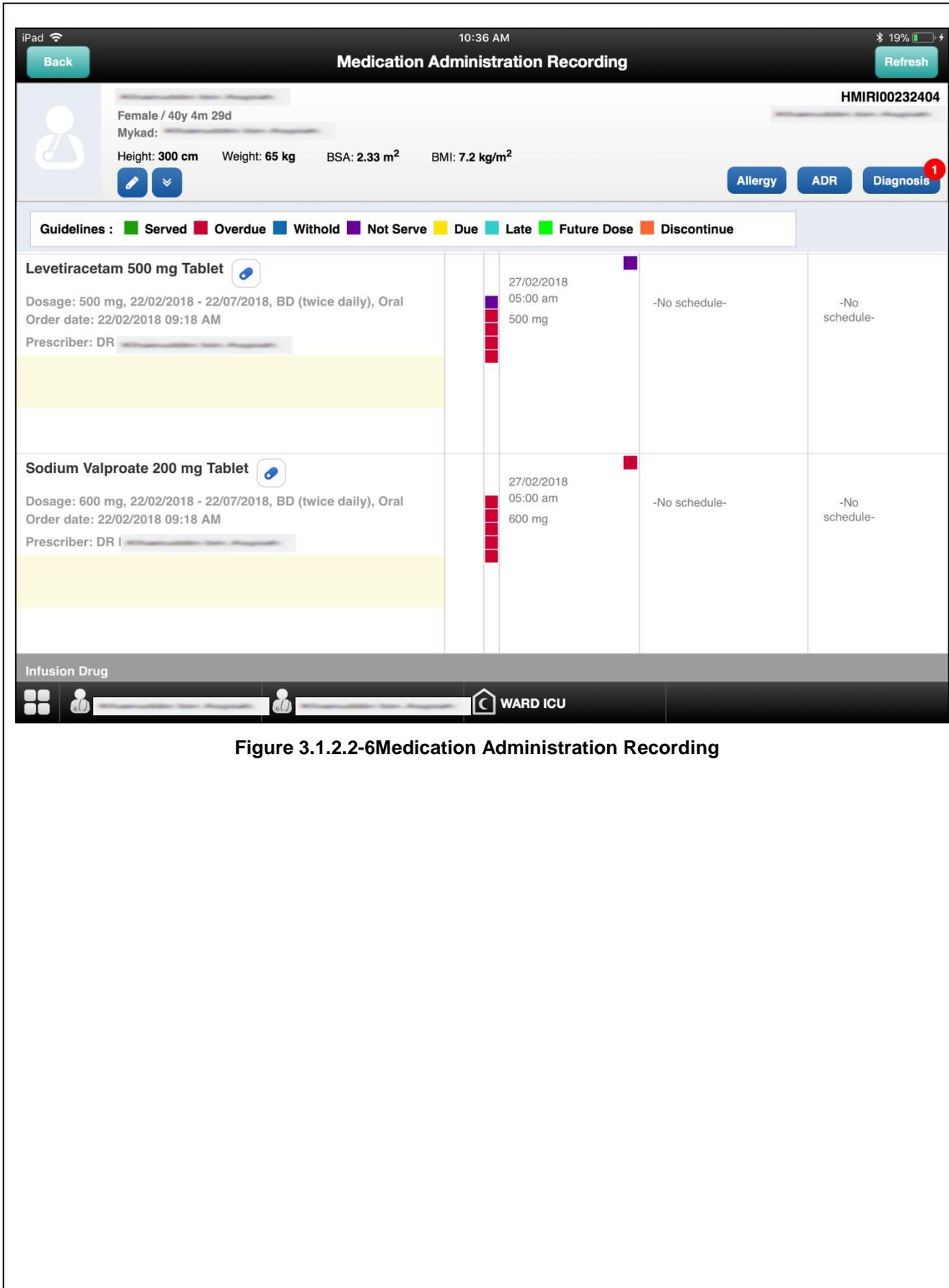


Figure 3.1.2.2-5 Medication Administration Recording

STEP 7

Tap on the  button and system will display as Figure 3.1.2.2-6



Medication Administration Recording

Female / 40y 4m 29d
Mykad: [Redacted]
Height: 300 cm Weight: 65 kg BSA: 2.33 m² BMI: 7.2 kg/m²

HMIRI00232404

Alergy ADR Diagnosis ¹

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

Medication	Date	Time	Dose	Status	Notes
Levetiracetam 500 mg Tablet Dosage: 500 mg, 22/02/2018 - 22/07/2018, BD (twice daily), Oral Order date: 22/02/2018 09:18 AM Prescriber: DR [Redacted]	27/02/2018	05:00 am	500 mg	Not Serve (Purple)	-No schedule-
	27/02/2018	05:00 am	500 mg	Overdue (Red)	-No schedule-
Sodium Valproate 200 mg Tablet Dosage: 600 mg, 22/02/2018 - 22/07/2018, BD (twice daily), Oral Order date: 22/02/2018 09:18 AM Prescriber: DR [Redacted]	27/02/2018	05:00 am	600 mg	Overdue (Red)	-No schedule-
	27/02/2018	05:00 am	600 mg	Overdue (Red)	-No schedule-

Infusion Drug

WARD ICU

Figure 3.1.2.2-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

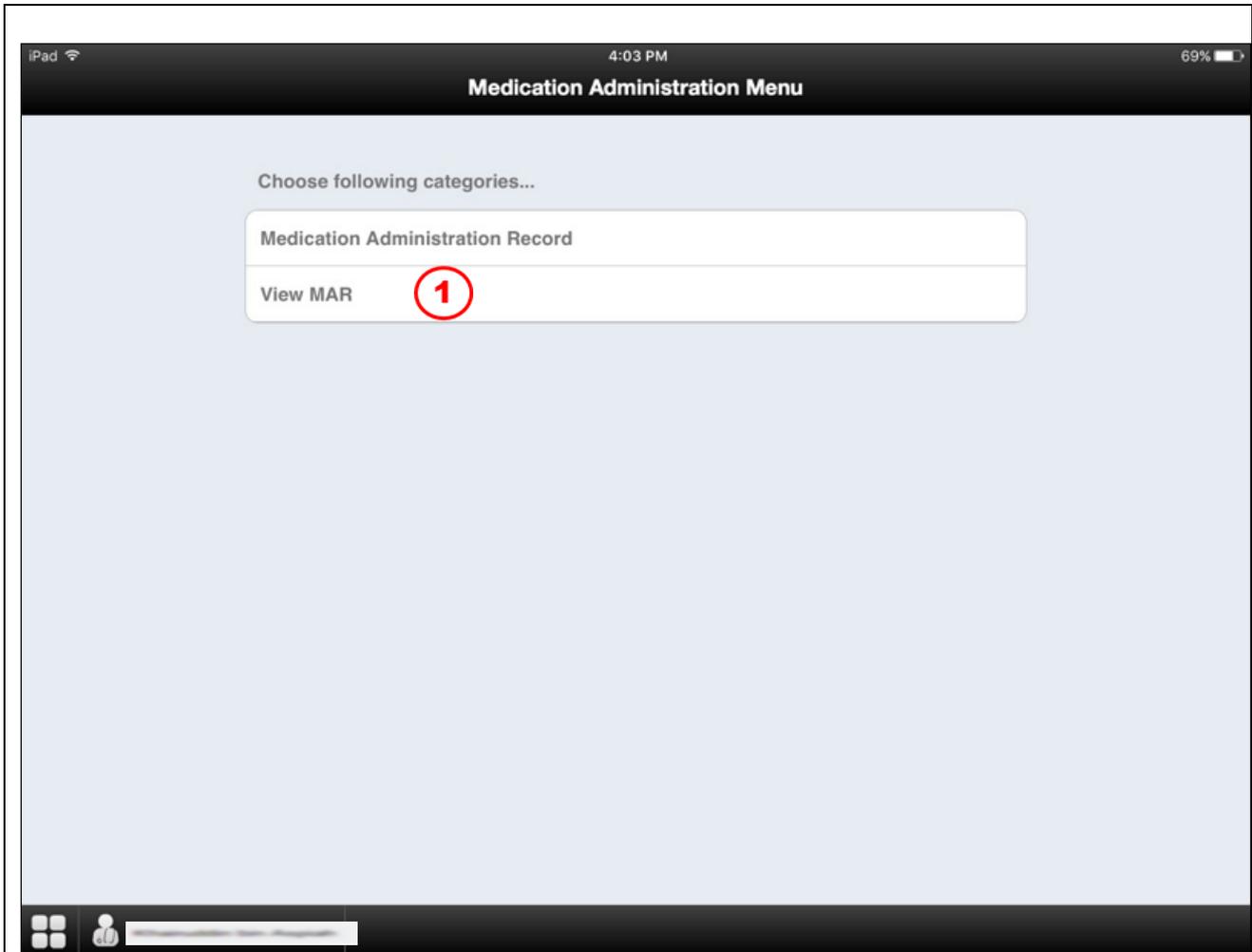


Figure 3.2.1-1 MAR Listing Page

STEP 1

Tap on the **View MAR**

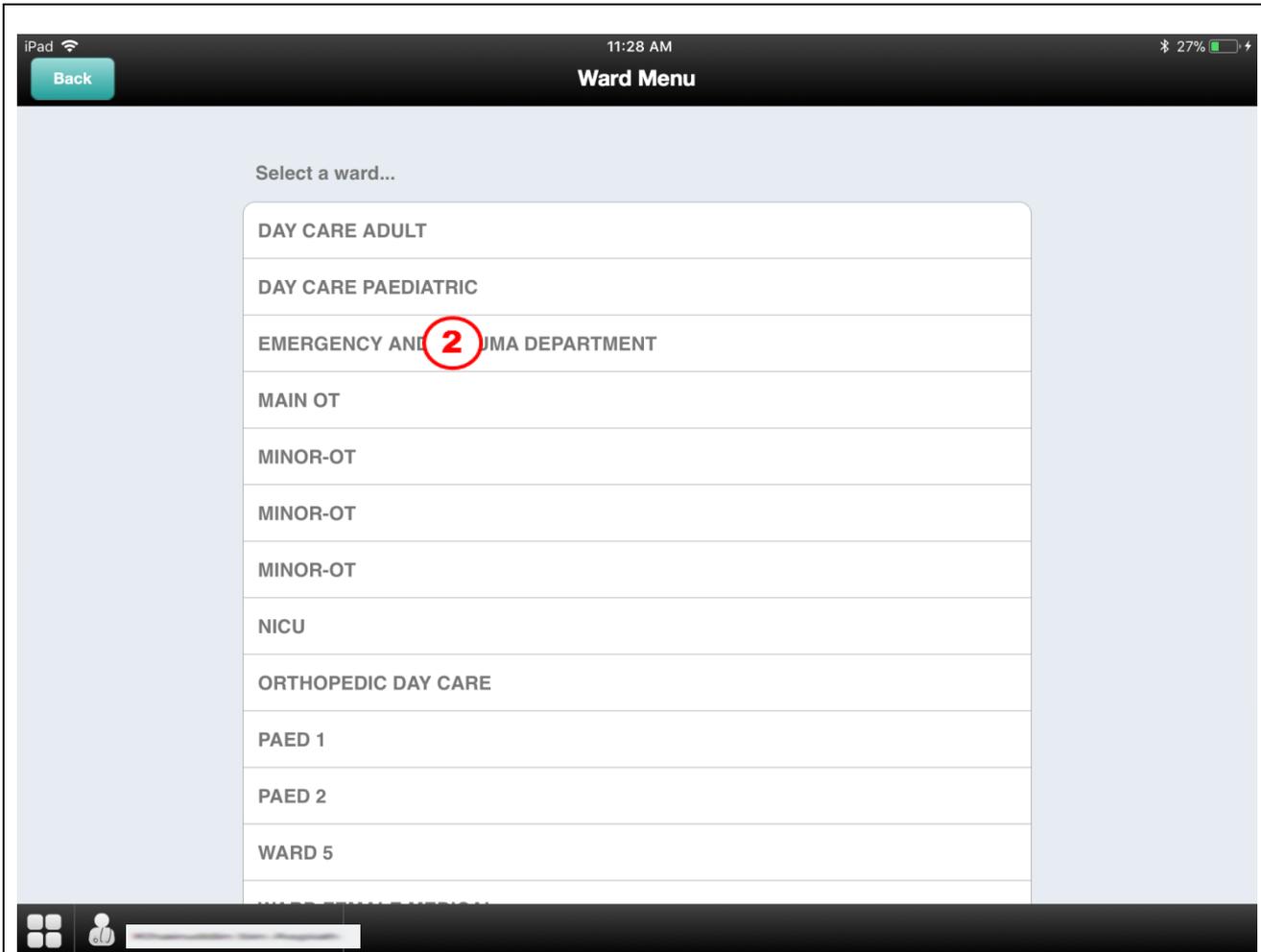


Figure 3.2.1-2 Location Screen Listing Page

STEP 2

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

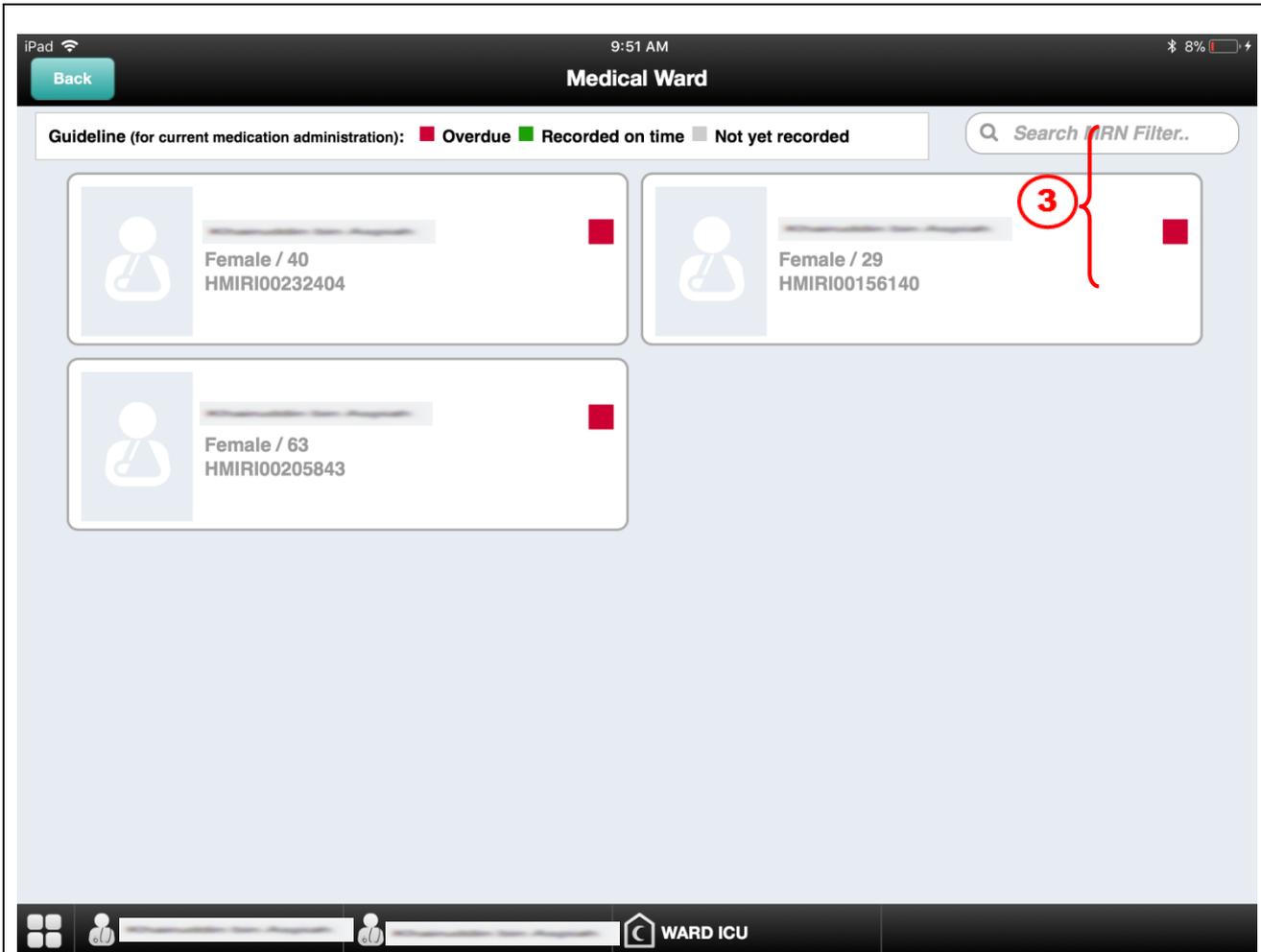


Figure 3.2.1-3 Patient Listing Page

STEP 3

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

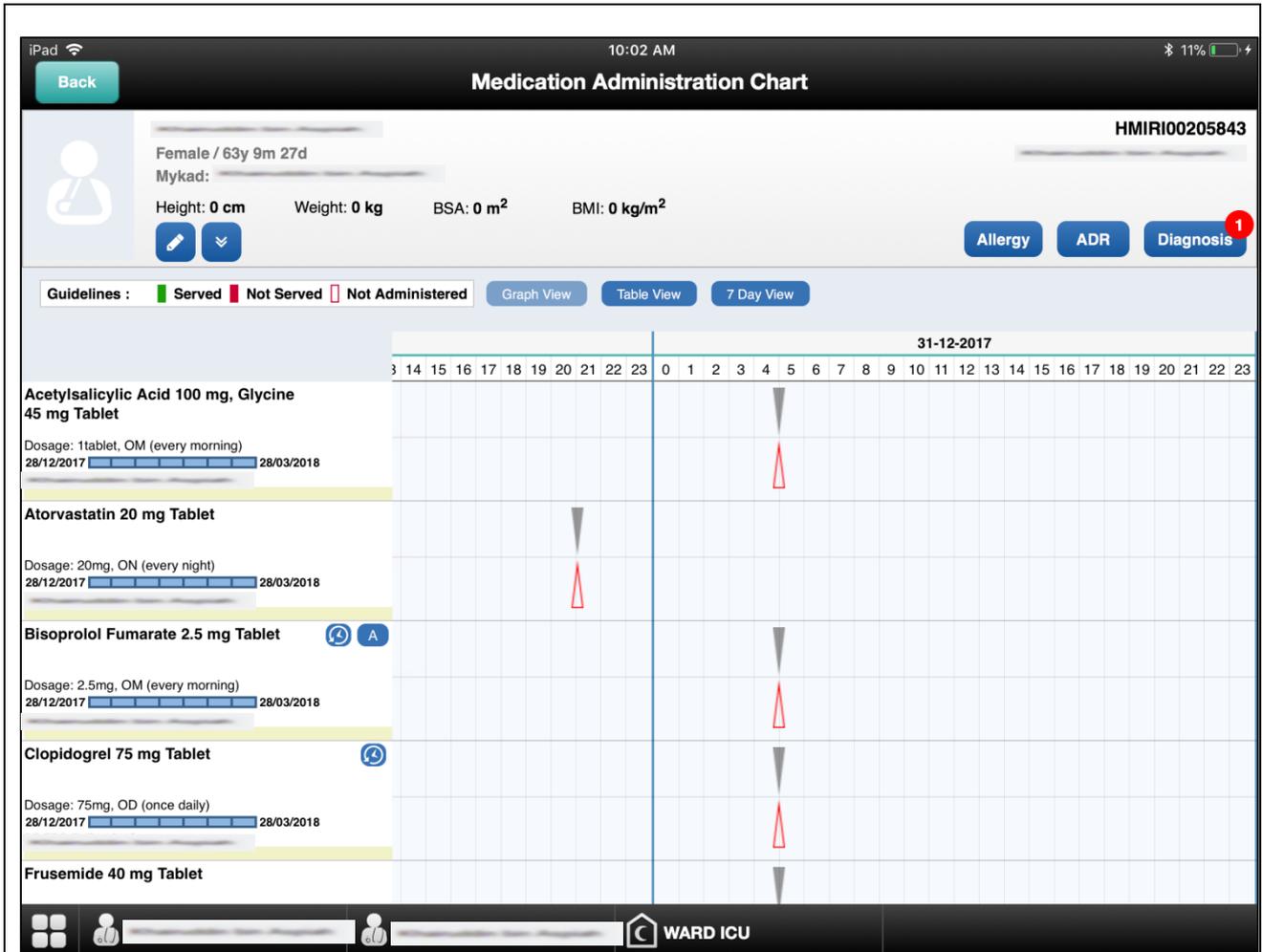
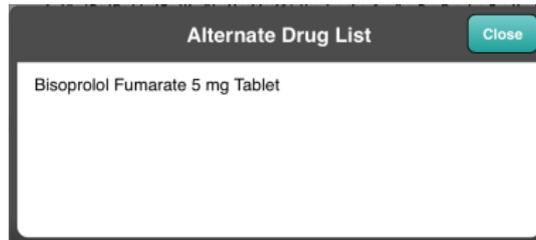


Figure 3.2.1-4View MAR Graph View

Note

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



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



3.2.2 View MAR – Table View

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

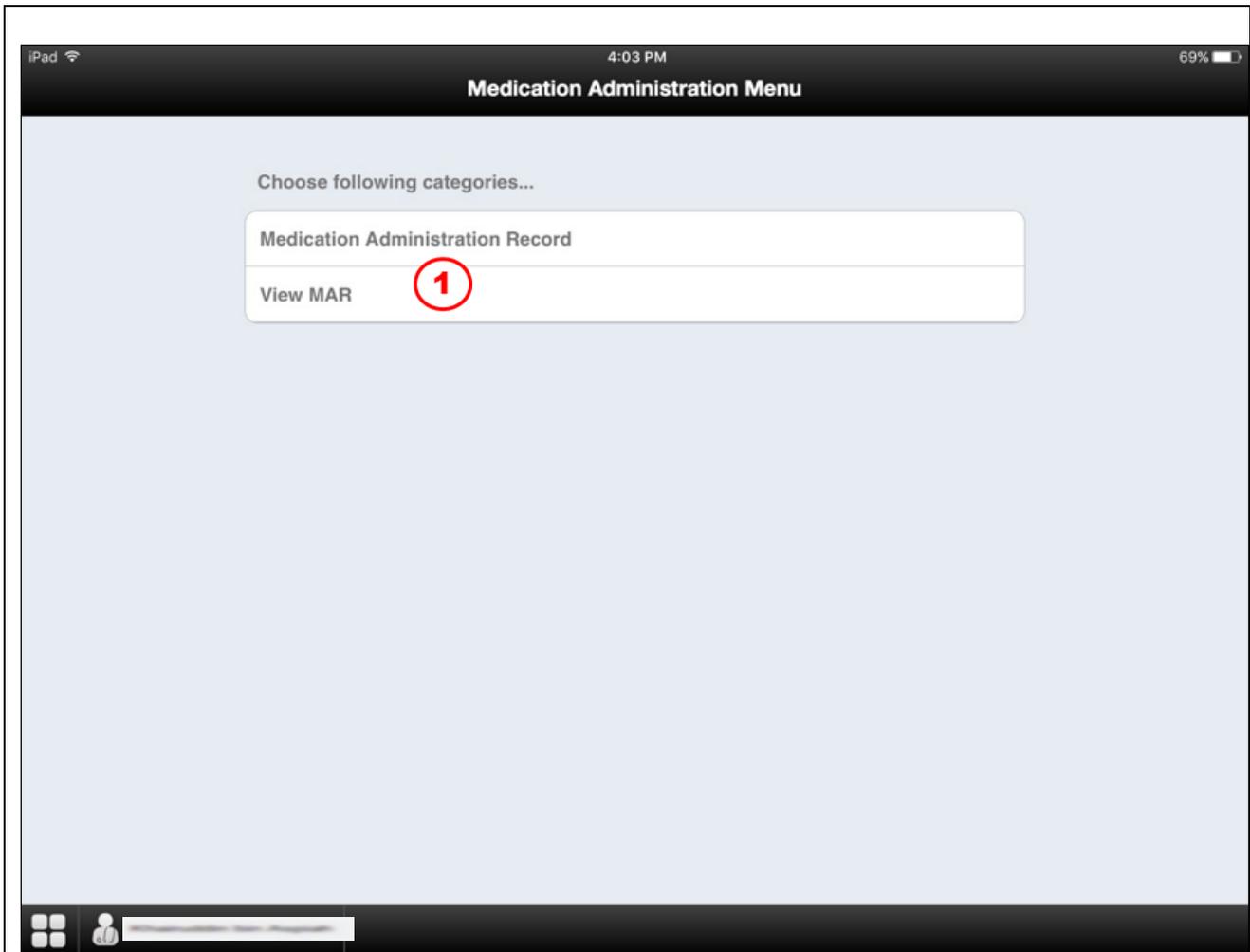


Figure 3.2.2-1 MAR Listing Page

STEP 1

Tap on the *View MAR*

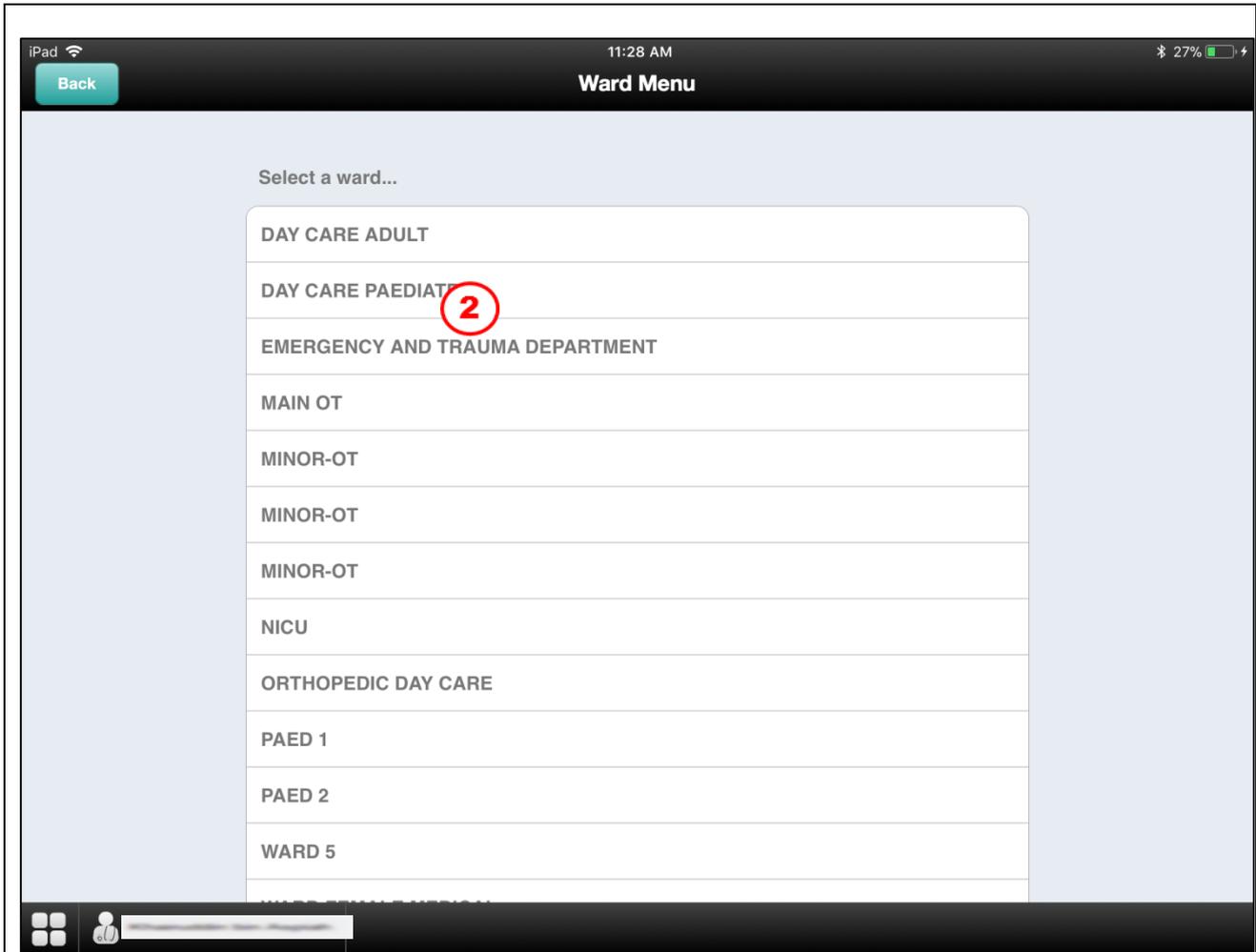


Figure 3.2.2-2 Location Screen Listing Page

STEP 2

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

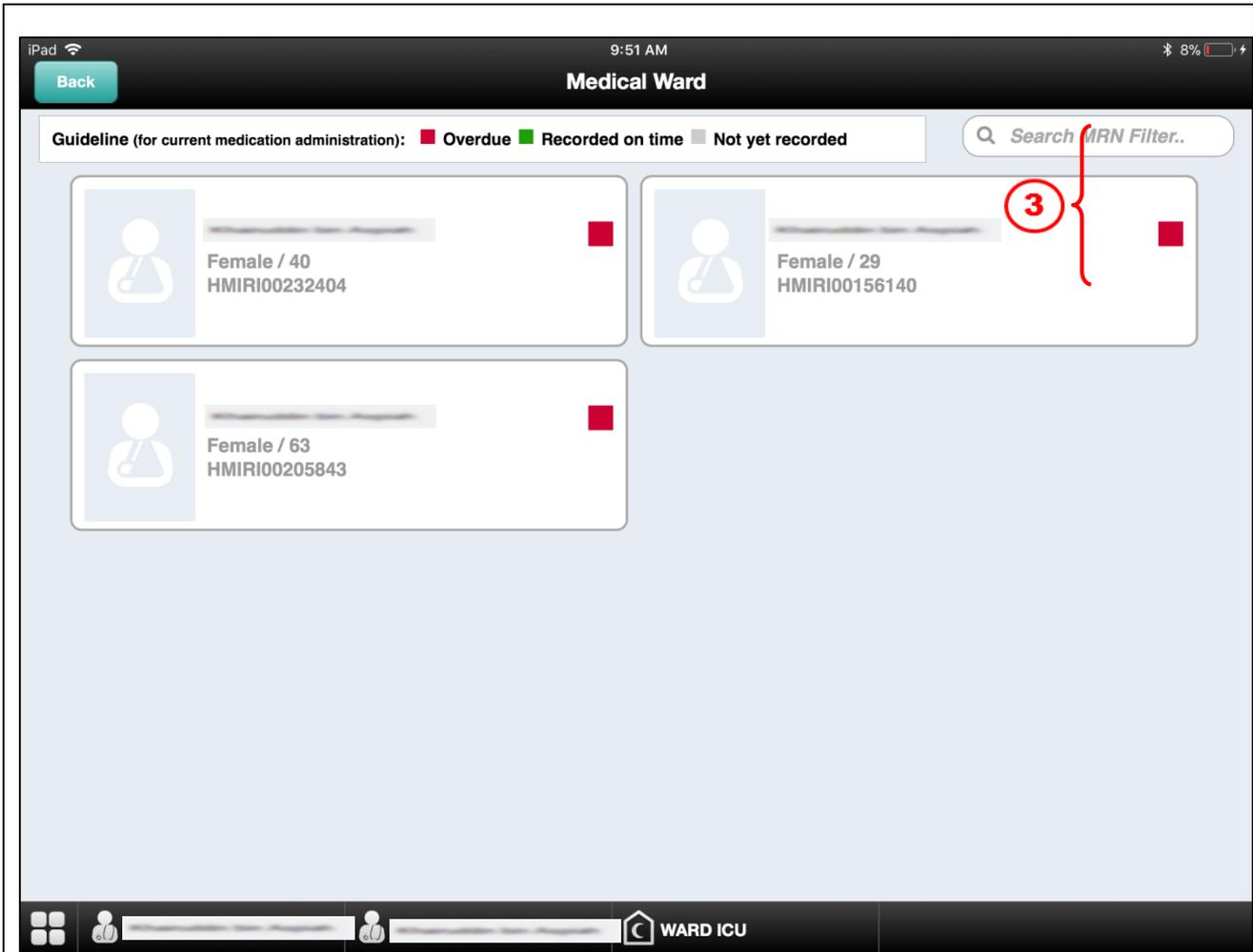


Figure 3.2.2-3 Patient Listing Page

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

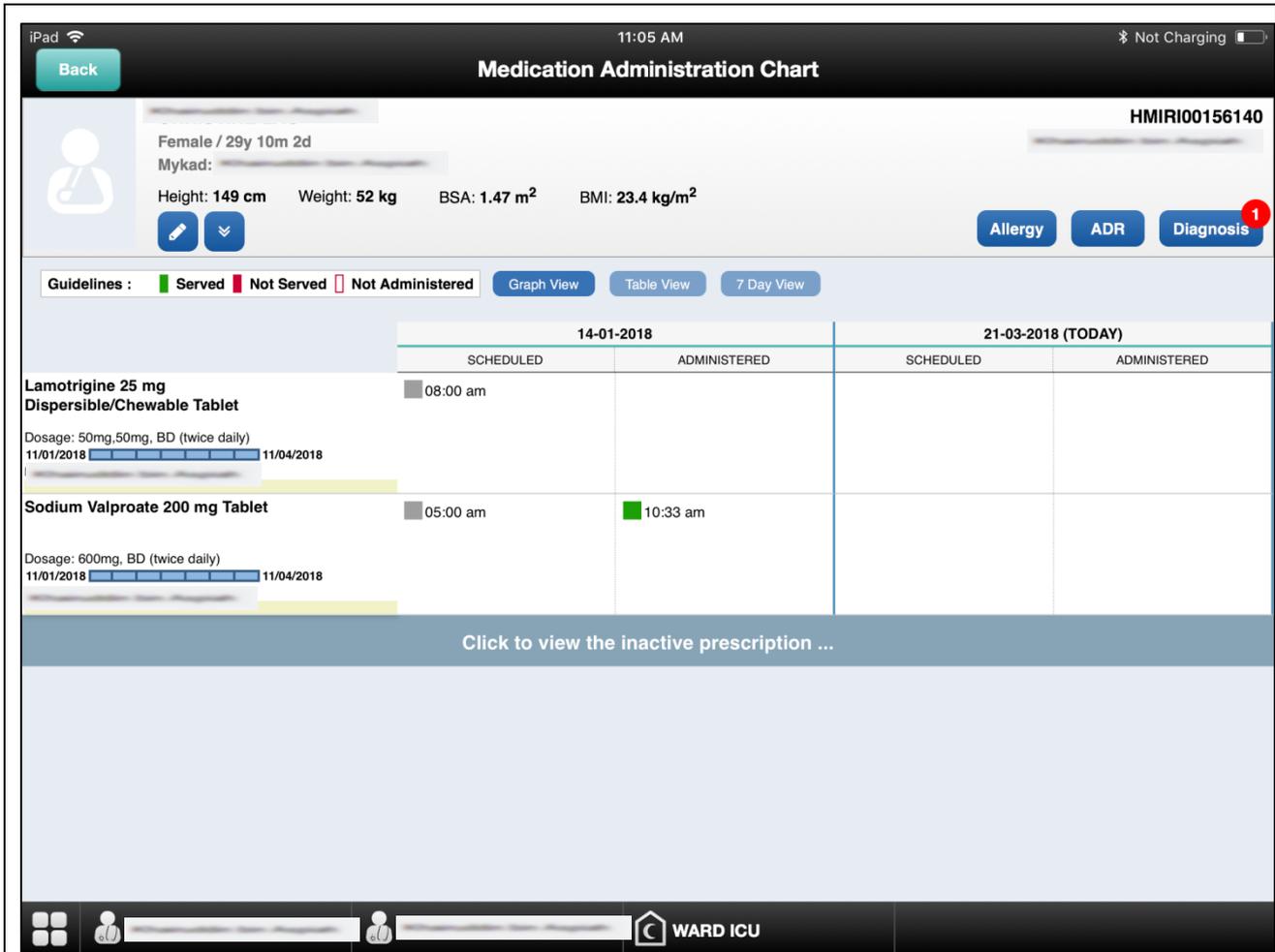


Figure 3.2.2-5 View MAR Table View

3.2.3 View MAR – 7 Days View.

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

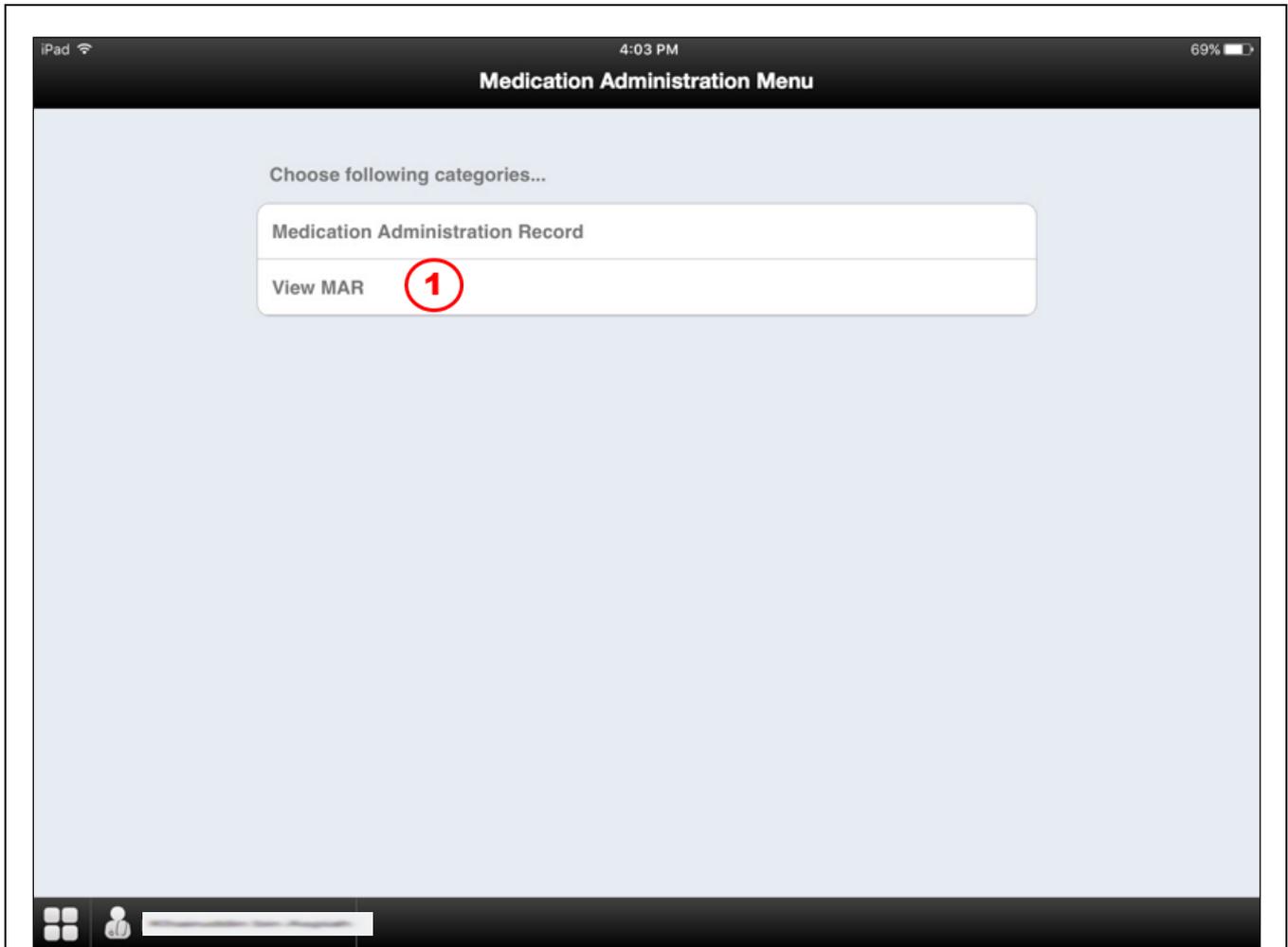


Figure 3.2.3-1 MAR Listing Page

STEP 1

Tap on the *View MAR*

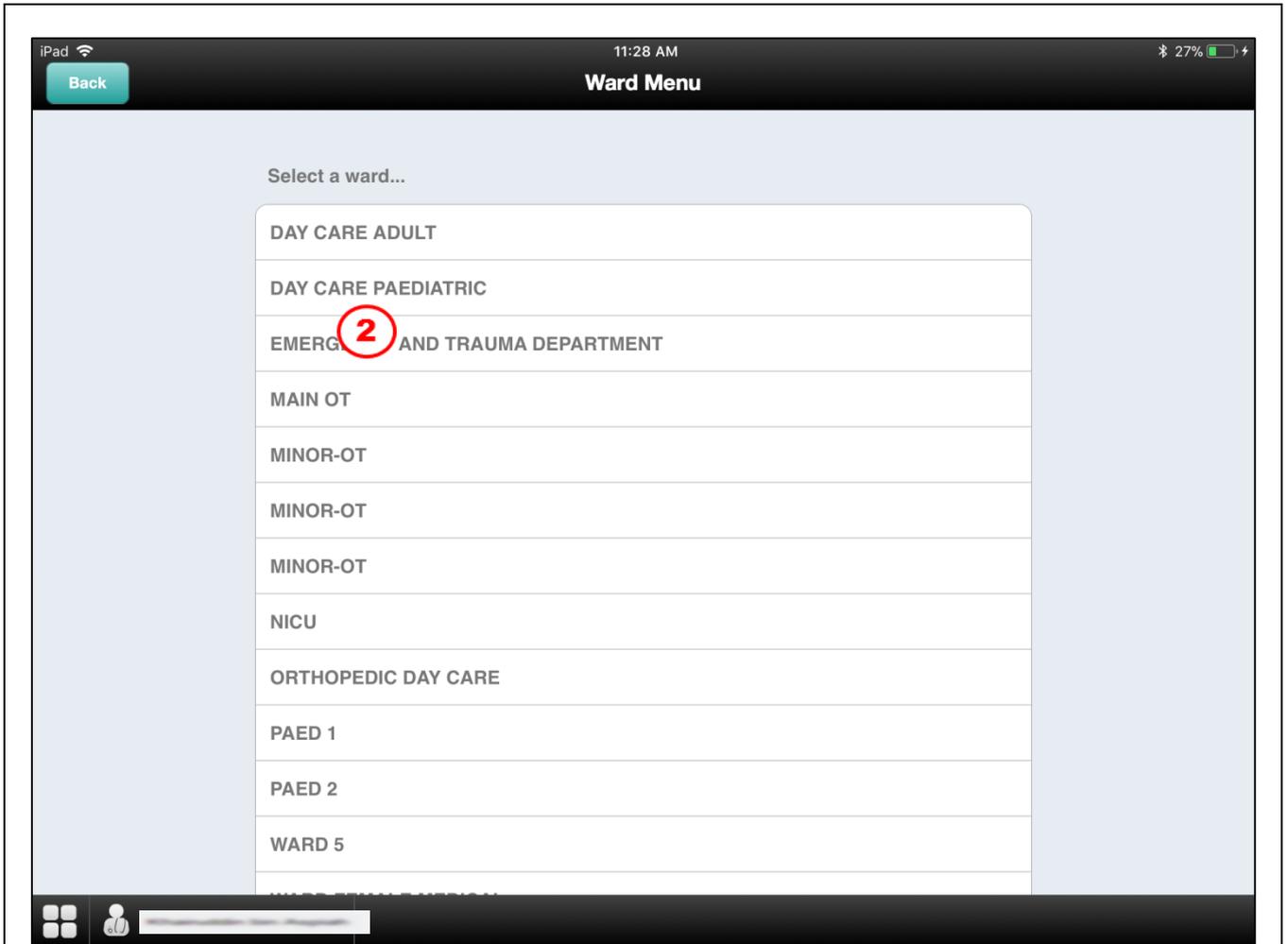


Figure 3.2.3-2 Location Screen Listing Page

STEP 2

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

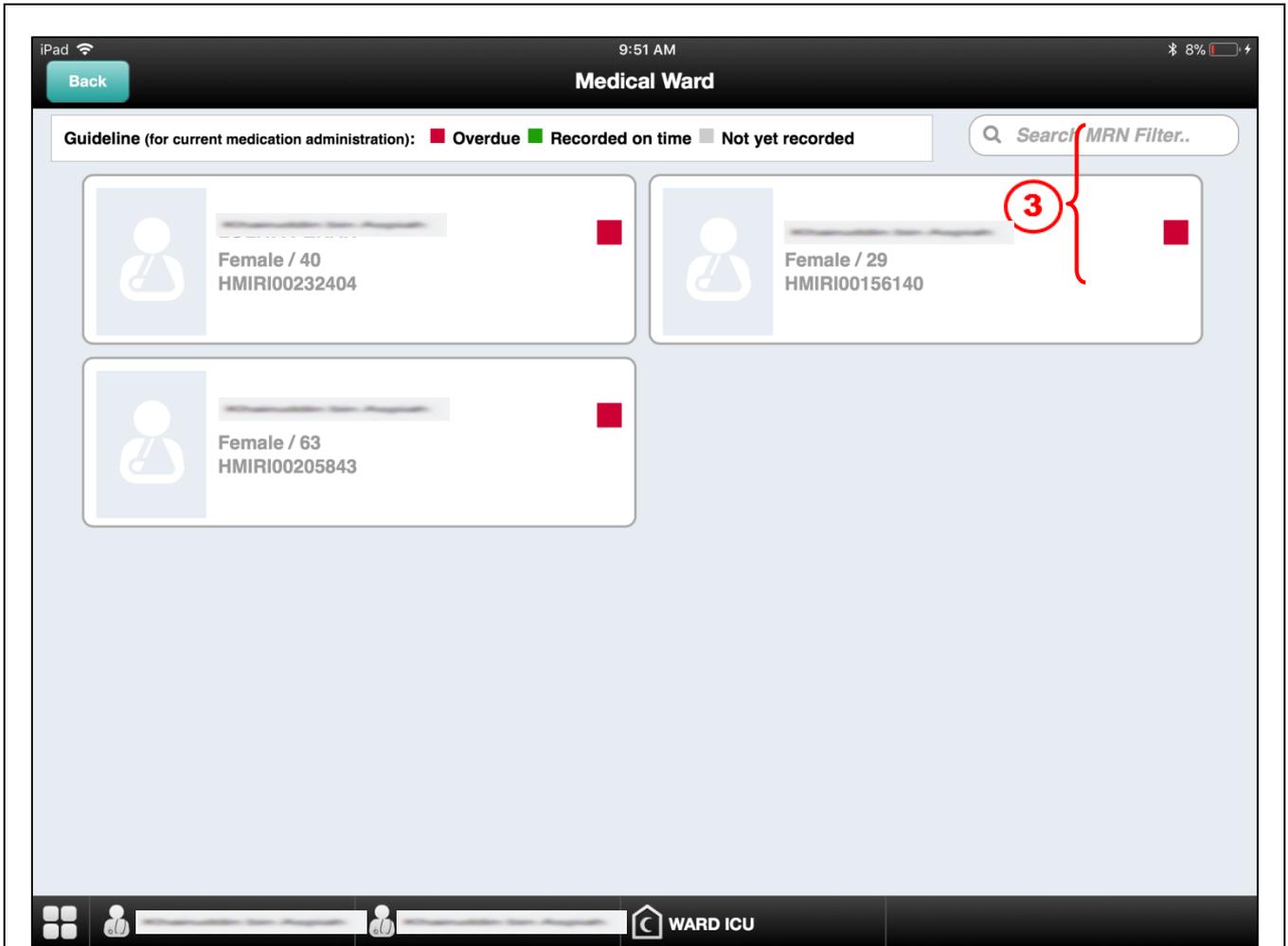


Figure 3.2.3-3 Patient Listing Page

STEP 3

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

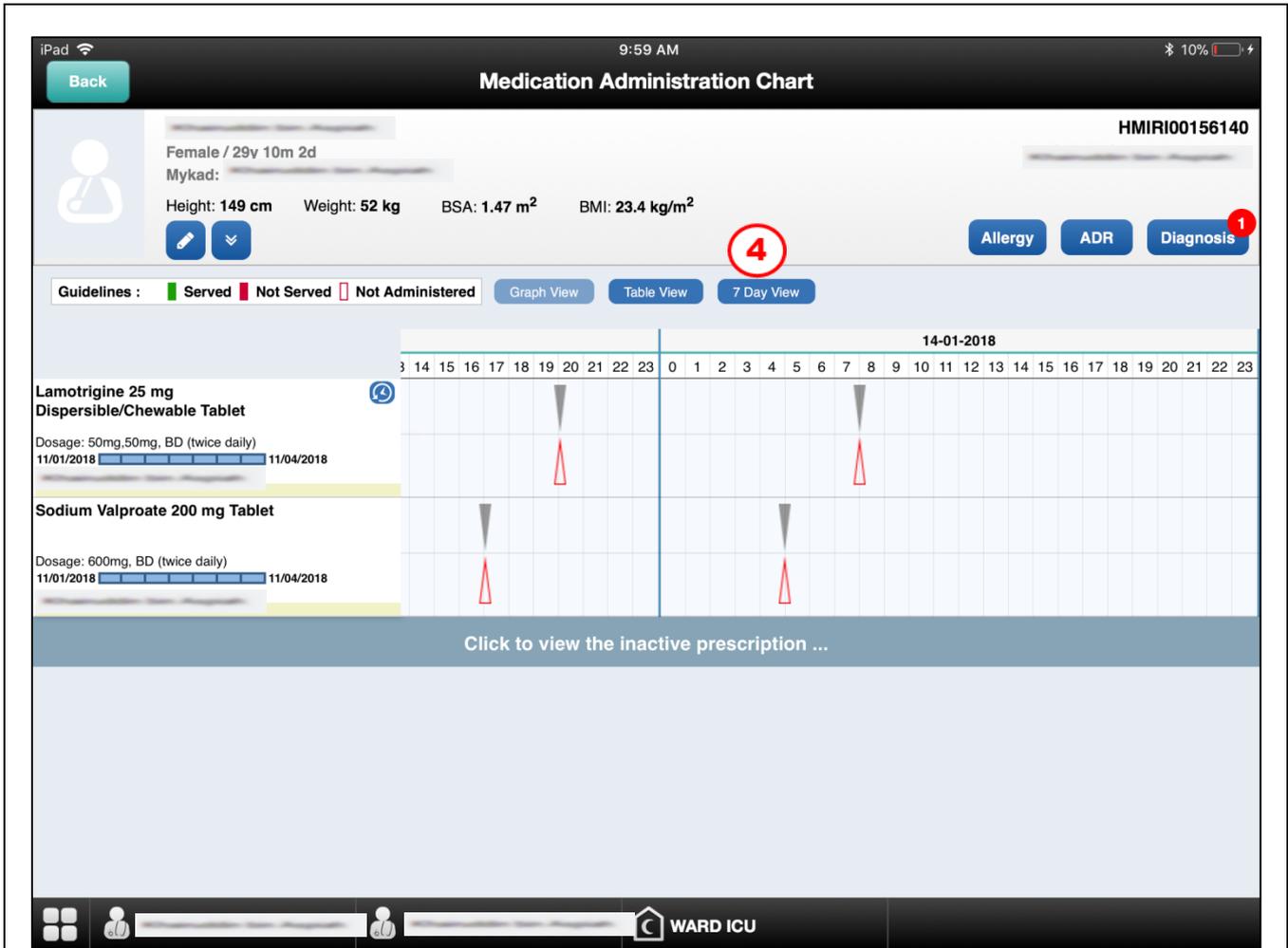


Figure 3.2.3-4 View MAR Graph View

STEP 4

Tap on the **7 Day View** button

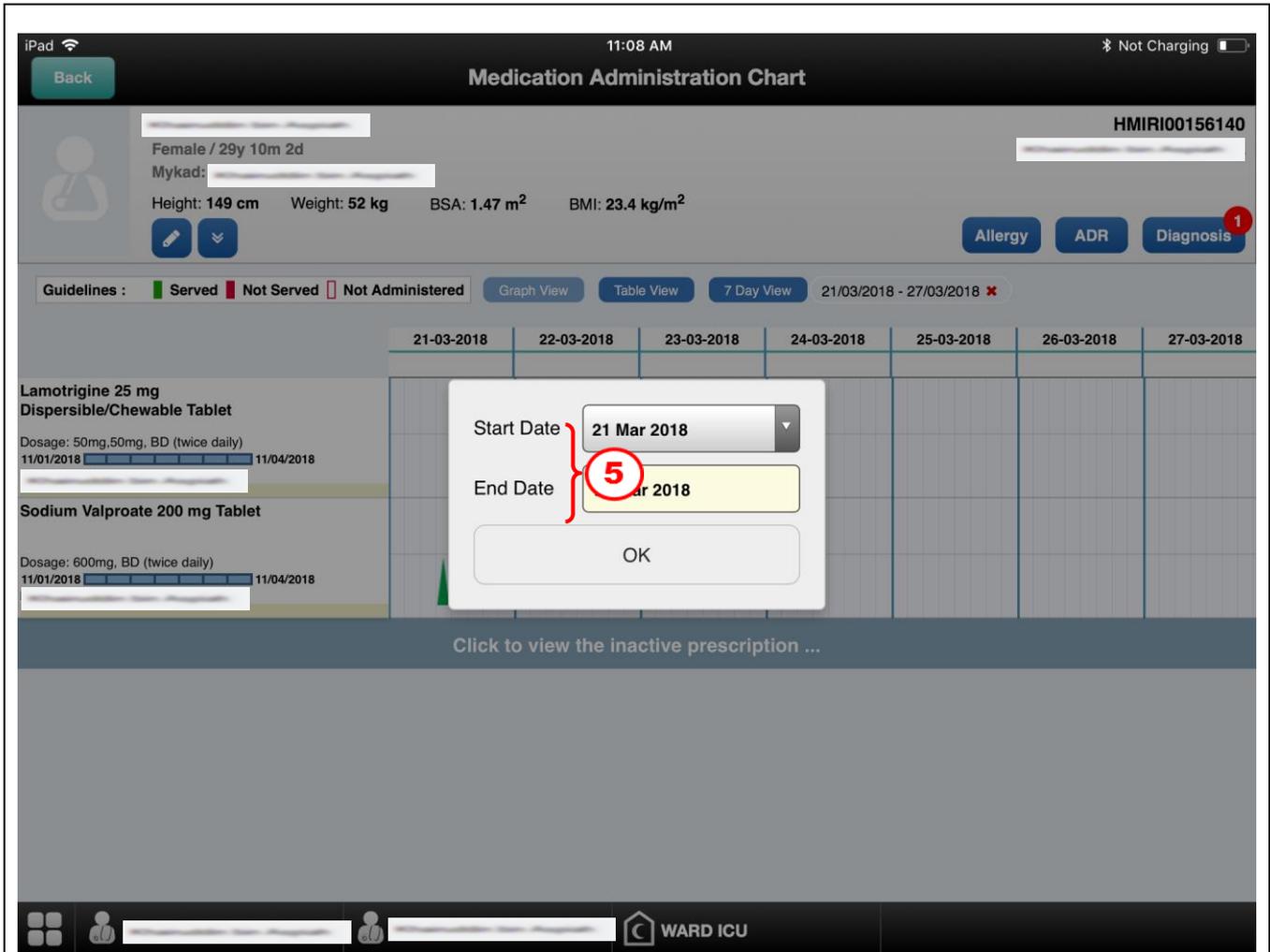


Figure 3.2.3-5 View MAR Graph View

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

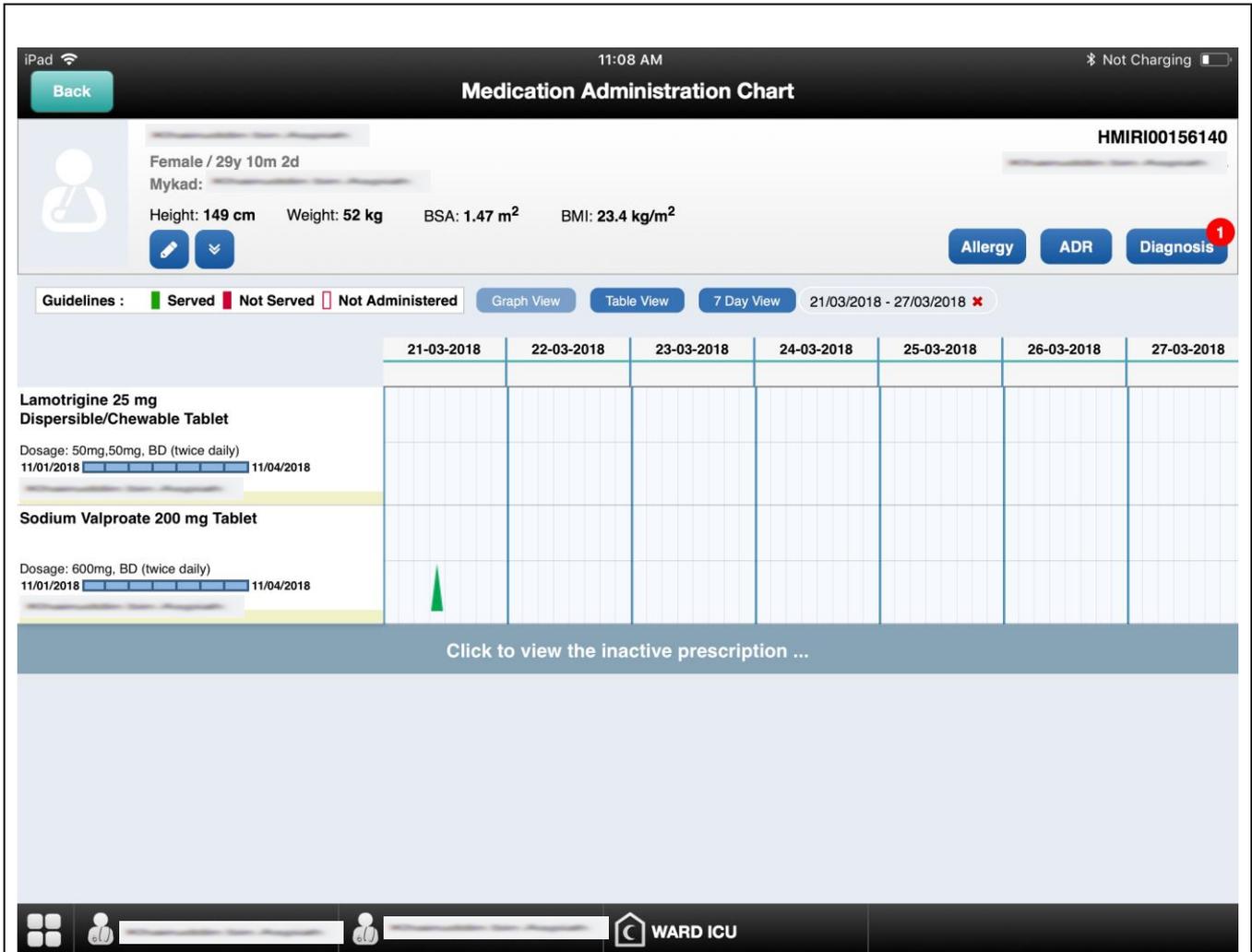
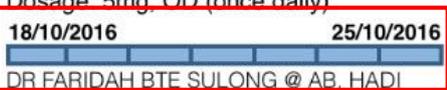


Figure 3.2.3-6 View MAR 7 Days View

View MAR Legend

ICON / SCREENSHOT	DESCRIPTION
	Drug Not Serve
<p>Prednisolone 5 mg Tablet</p> <p>Dosage: 5mg OD (once daily)</p>  <p>DR FARIDAH BTE SULONG @ AB. HADI</p>	Drug prescribe for 7 days

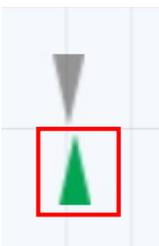
<p>Prednisolone 5 mg Tablet</p> <p>Dosage: 10mg, OD (once daily) 16/10/2016 21/10/2016 DR MUHD FAIZ FAIZUL BIN FAUZI Stock:</p>	<p>Drug to be served remain 3 days</p>
	<p>Drug served</p>
	<p>Drug is not administered</p>
<p>Baclofen 10 mg Tablet</p> <p>Dosage: 10mg, TDS (3 times a day) 11/10/2016 16/10/2016 DR NURLAILI BT ZAKARIA Stock:</p>	<p>Own medication discontinued/stop by prescriber / doctor</p>
<p>Cefotaxime 1g Injection</p> <p>Dosage: 1000mg, Q8H 31/07/2016 07/08/2016 DR RABIATUL ADAWIYAH BT MOHD GHAZALI Stock:</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	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		