



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

Full Based

**User Manual
MAR - Mobile**

Version	: 1.1
Document ID	: FB_U. MANUAL_MAR_MOBILE



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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

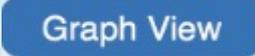
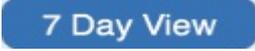
1.3 Organized Sections

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

2.2 Login to PhIS Mobile

To login into the system, perform the steps below:

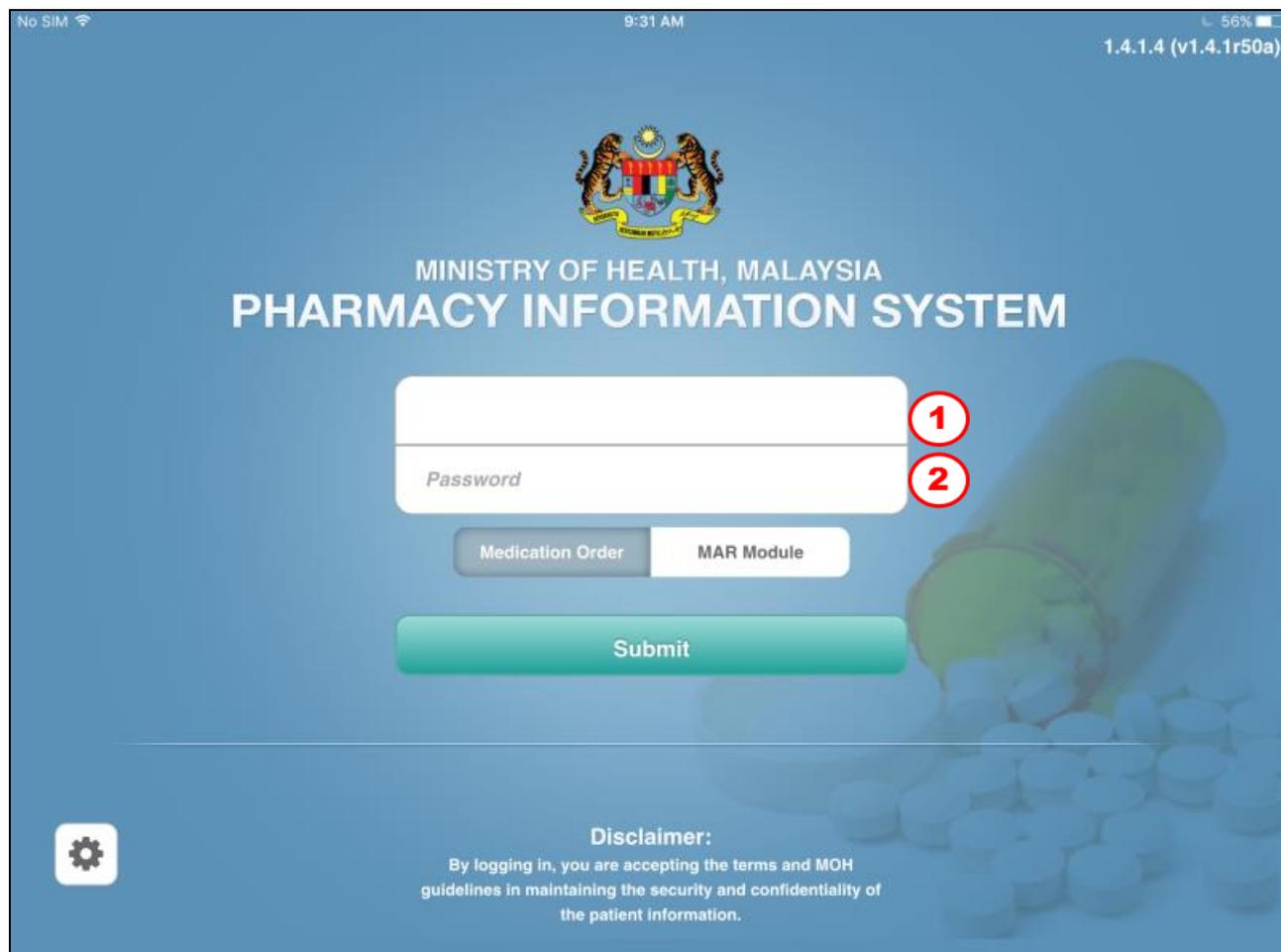


Figure 2.2-1 PhIS Login Page

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.

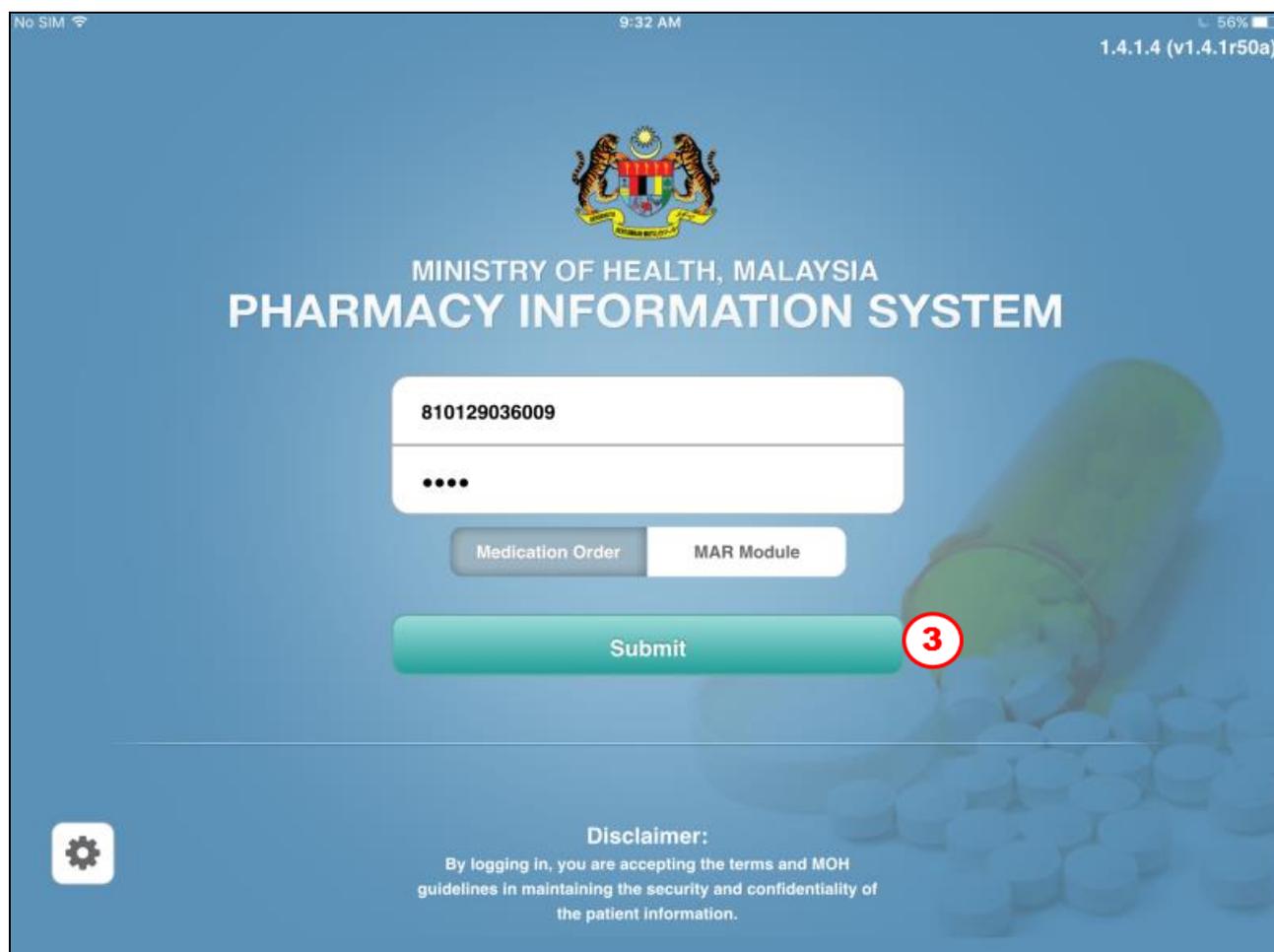


Figure 2.2-3 Wrong password entered

STEP 3

Tap on the  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.

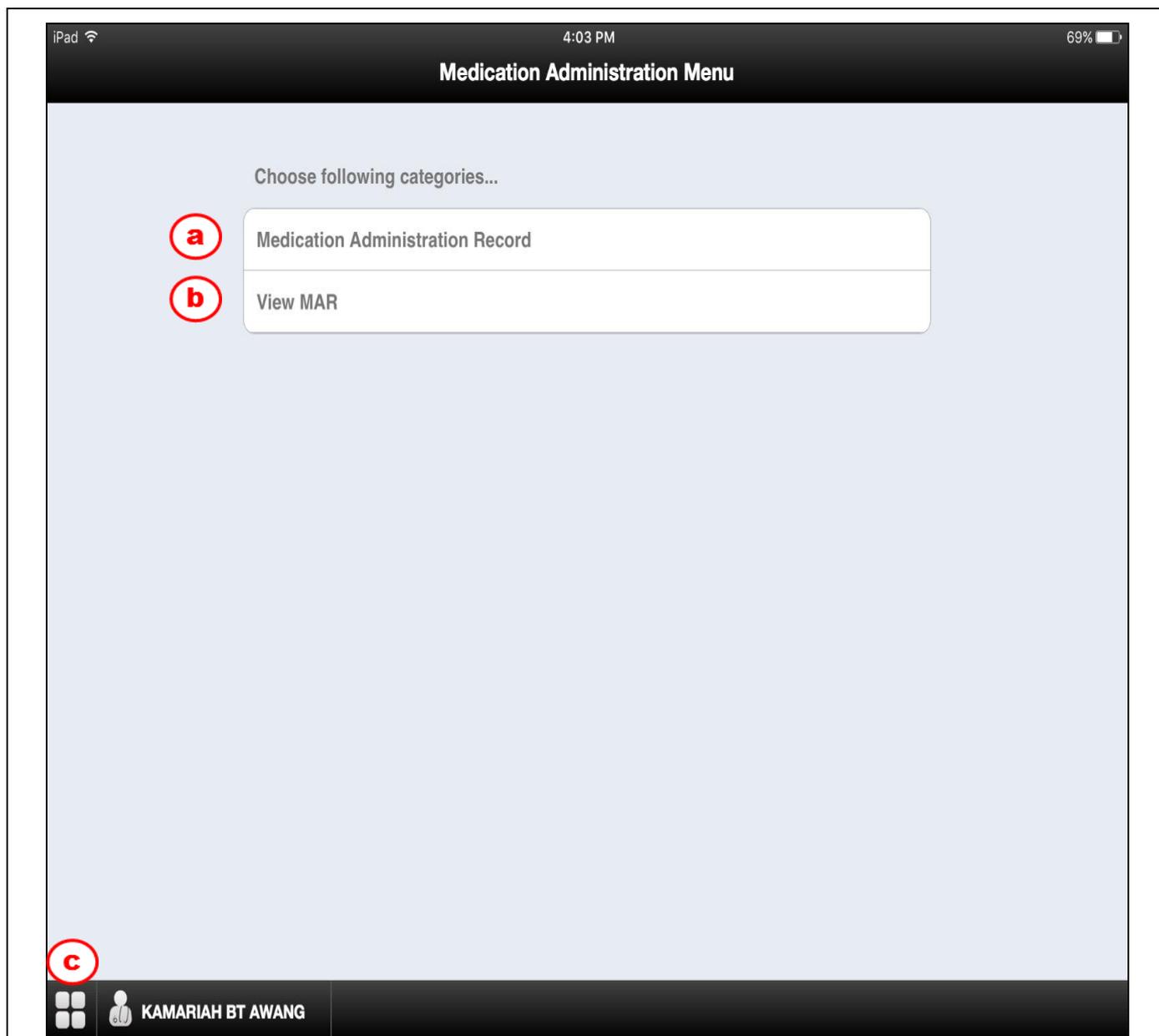


Figure 2.3-1 PhIS Home Page

a) *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

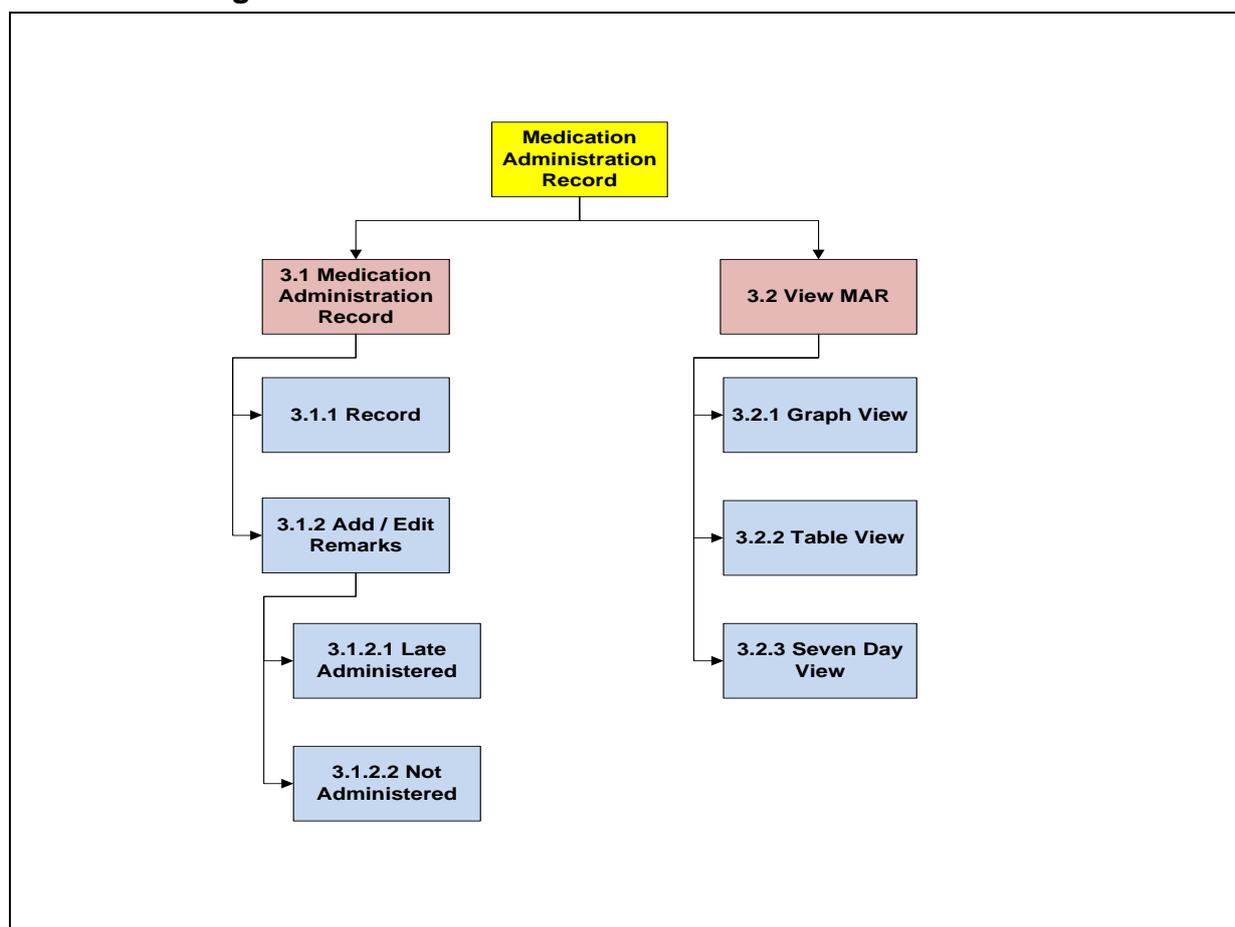


Figure 3.0-1 MAR Functional Description

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 for record the medication with status **Due** only

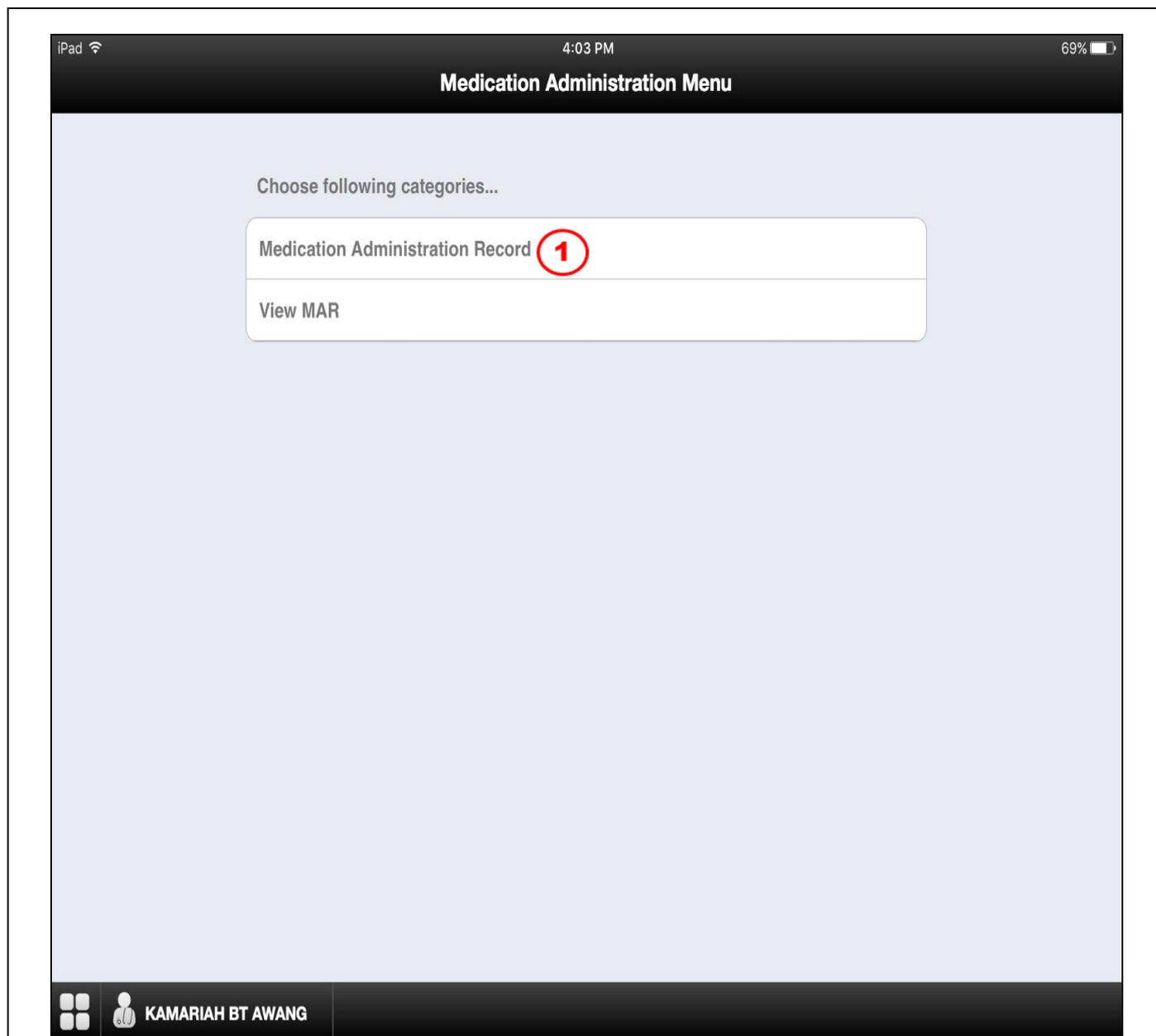


Figure 3.1.1-1 MAR Listing Page

STEP 1

Tap on the *Medication Administration Record*

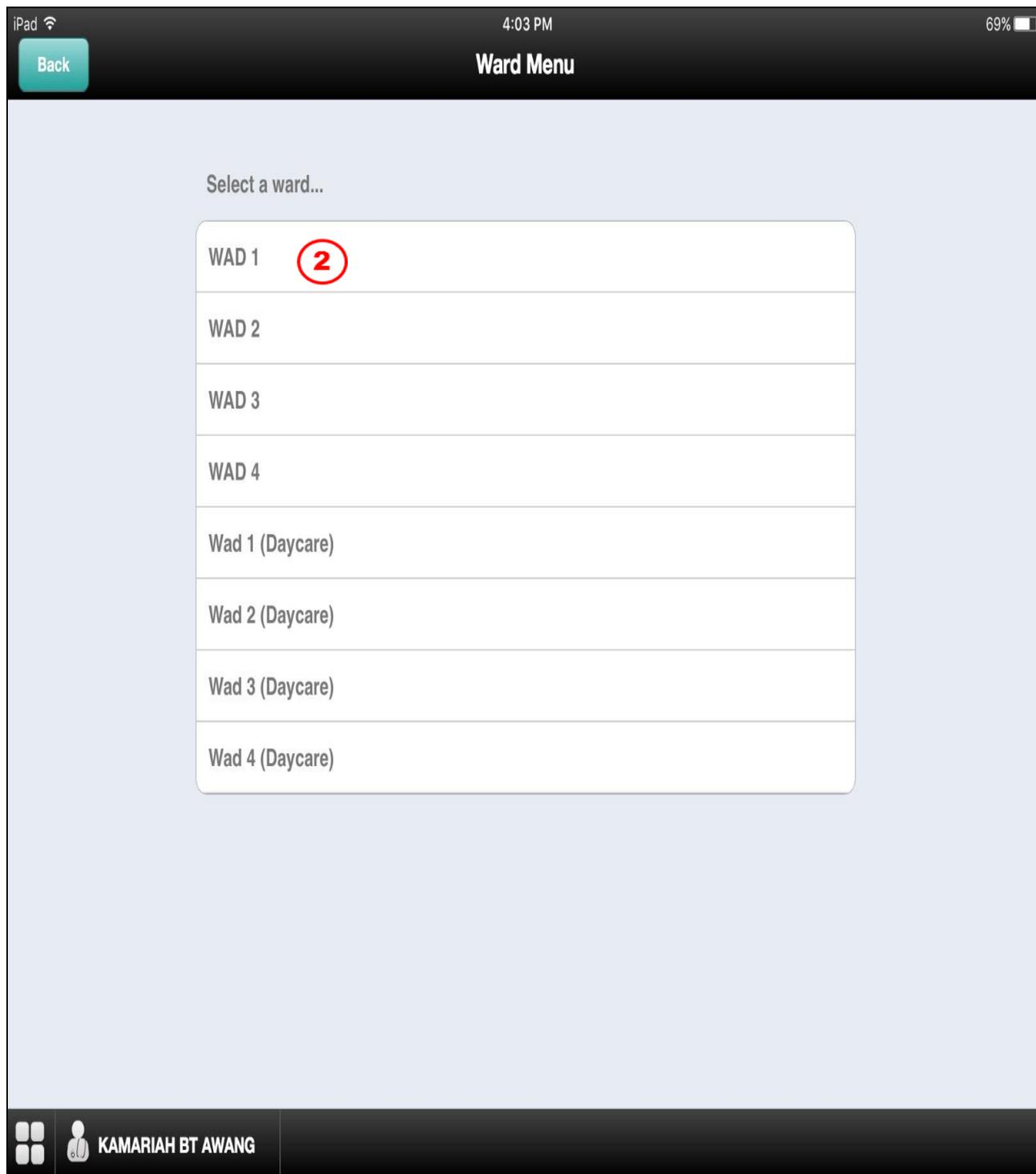


Figure 3.1.1-2 Location Screen Listing Page

STEP 2

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

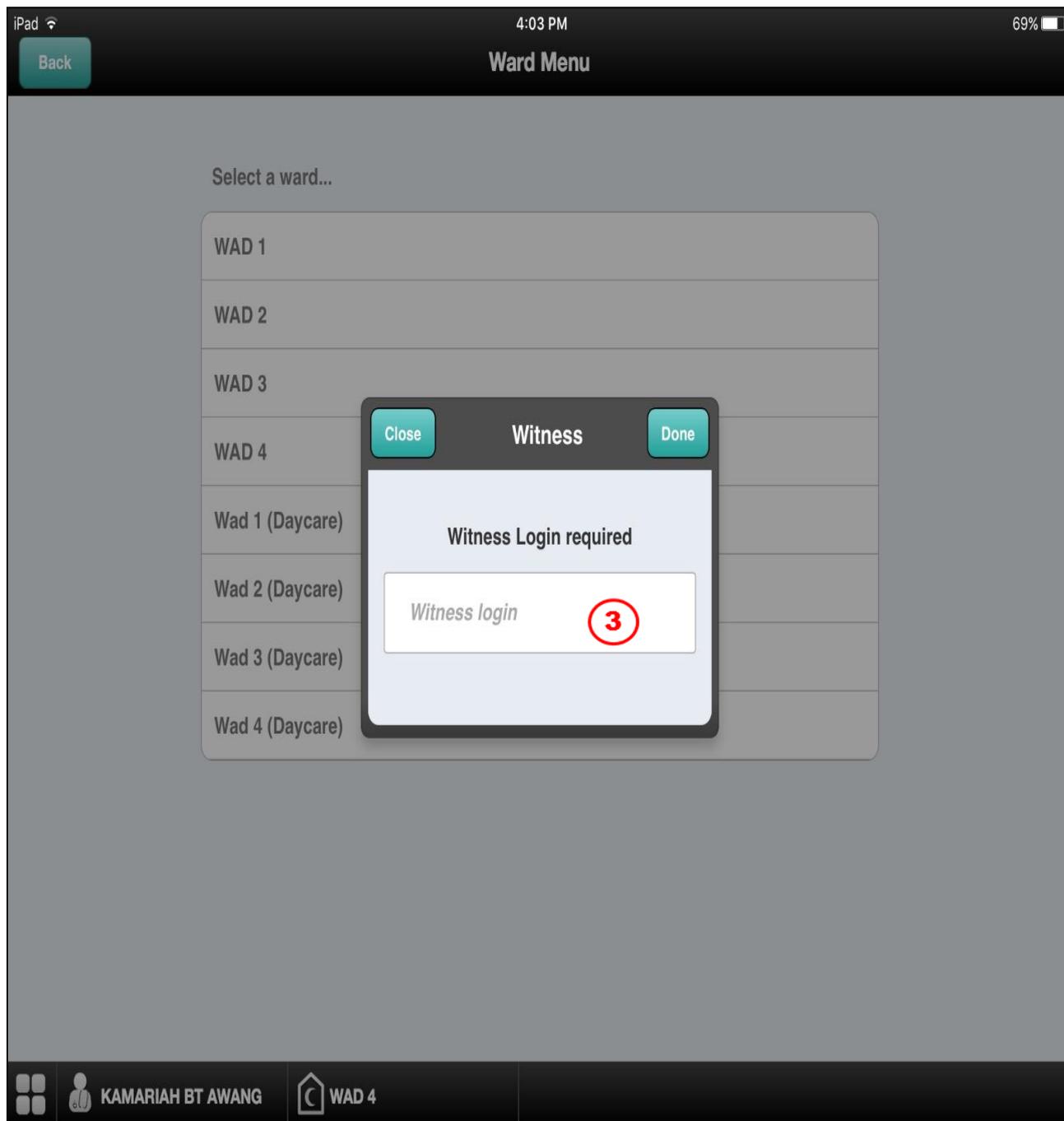


Figure 3.1.1-3 Witness Login Page

STEP 3

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

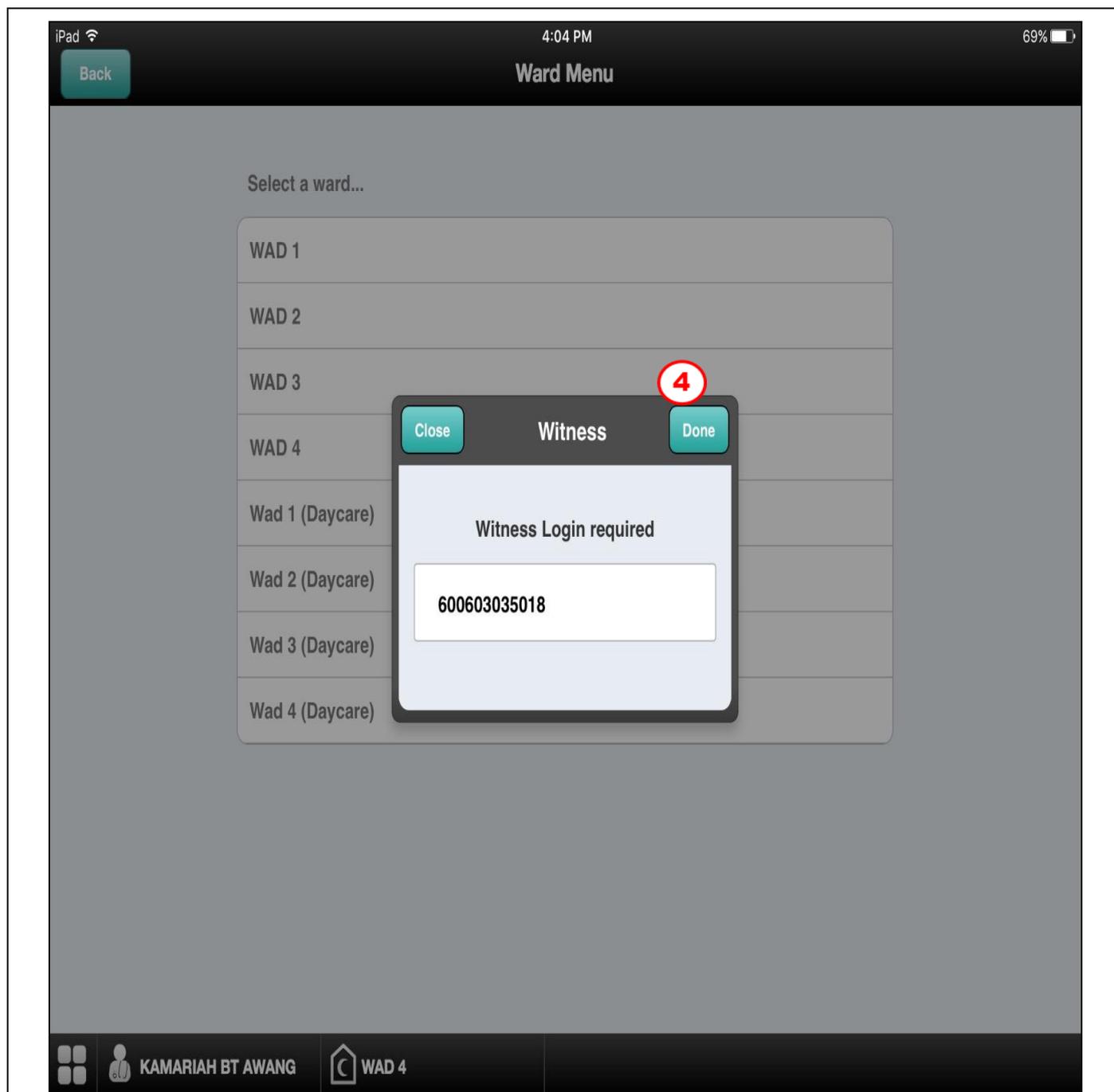


Figure 3.1.1-4 Witness Login Page

STEP 4

Tap on the  button

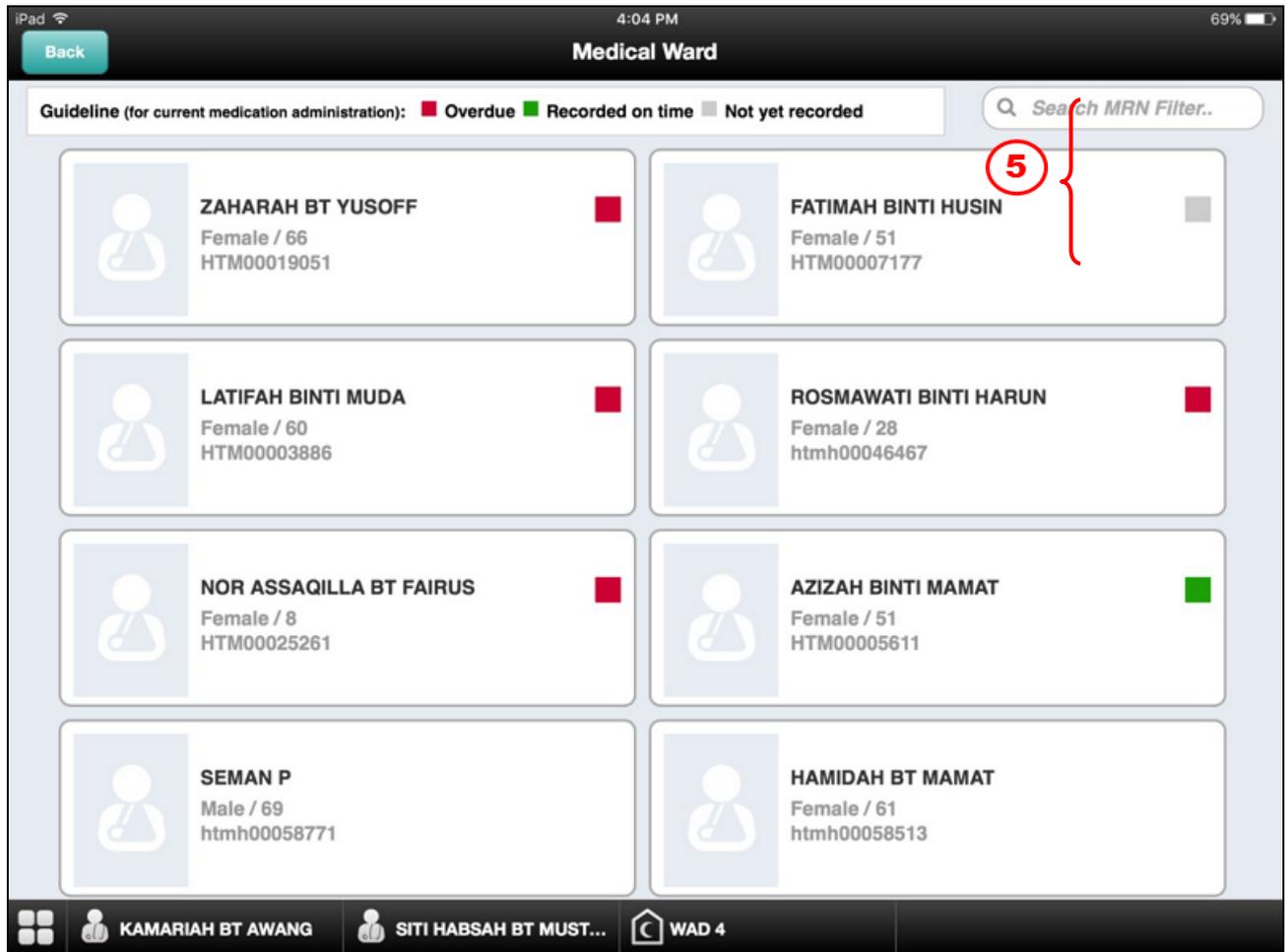


Figure 3.1.1-5 Patient Listing Page

STEP 5

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

Table 3.1.1-1

iPad 4:05 PM 69%

Medication Administration Recording

FATIMAH BINTI HUSIN HTM00007177
 Female / 51y 4m 16d KAMARIAH BT AWANG
 Mykad: 650604-03-5074
 Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

Allergy ADR Diagnosis

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 FARIDAH BTE SULONG @ AB. HADI		-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 FARIDAH BTE SULONG @ AB. HADI		-No schedule-	-No schedule-	19/10/2016 08:00 pm 200 mg

KAMARIAH BT AWANG SITI HABSAH BT MUST... WAD 4

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

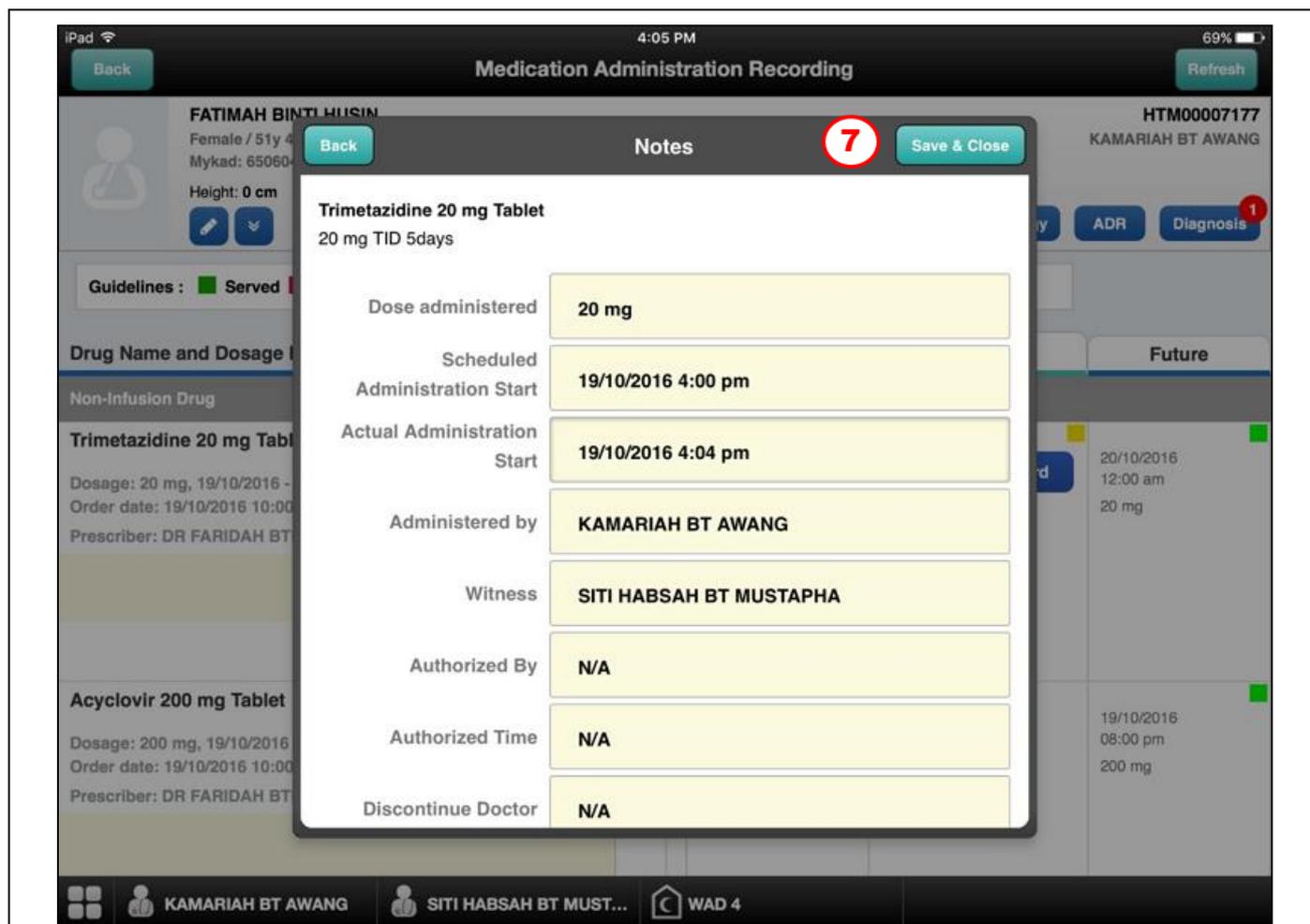
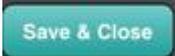


Figure 3.1.1-7 Medication Administration Recording

STEP 7

Tap on the  button to save the record

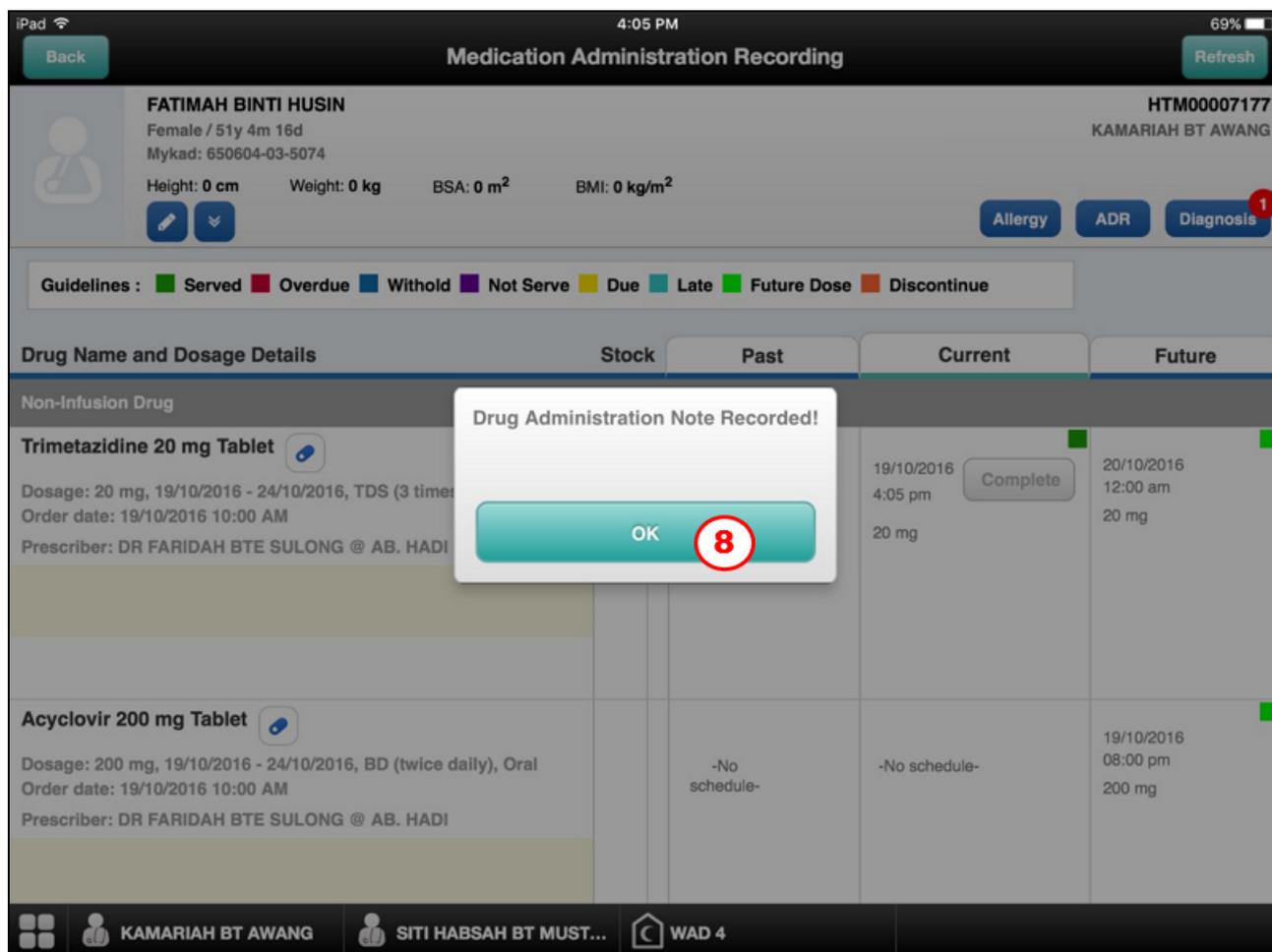


Figure 3.1.1-8 Medication Administration Recording

STEP 8

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

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Medication Administration Recording

FATIMAH BINTI HUSIN HTM00007177
 Female / 51y 4m 16d KAMARIAH BT AWANG
 Mykad: 650604-03-5074
 Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

Allergy ADR Diagnosis

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 FARIDAH BTE SULONG @ AB. HADI		-No schedule-	19/10/2016 4:05 pm 20 mg Complete	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 FARIDAH BTE SULONG @ AB. HADI		-No schedule-	-No schedule-	19/10/2016 08:00 pm 200 mg

KAMARIAH BT AWANG SITI HABSAH BT MUST... 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

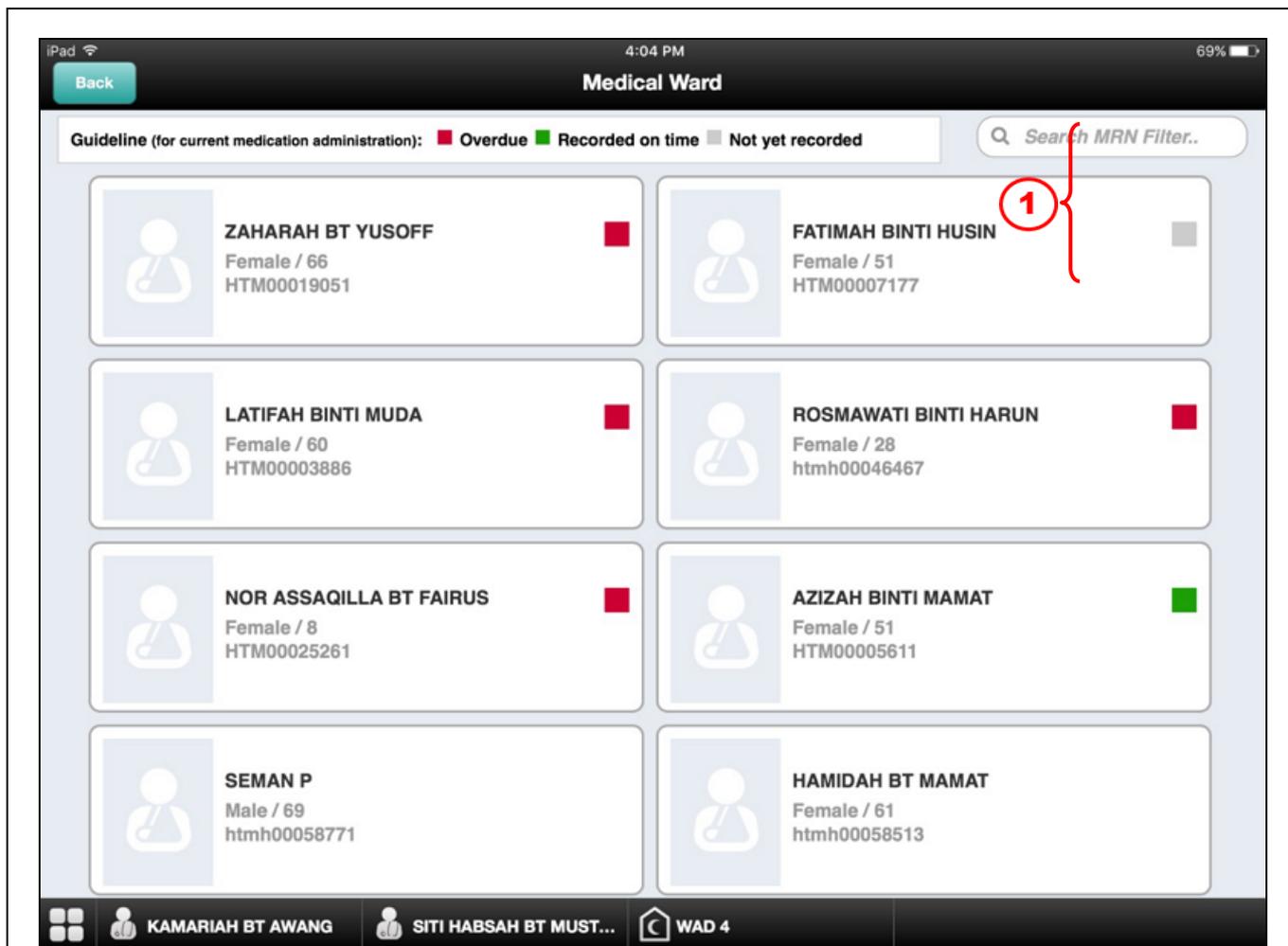


Figure 3.1.2.1-1 Patient Listing Page

STEP 1

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

iPad 4:06 PM 68%
Medication Administration Recording

ZAHARAH BT YUSOFF
 Female / 66y 0m 24d
 Mykad: 500927-03-5286
 Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

HTM00019051
 KAMARIAH BT AWANG

Allergy ² 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				
Fondaparinux 12.5mg/ml Injection Dosage: 13.5 mg, 04/10/2016 - 02/04/2017, OD (once daily), Subcutaneous Order date: 04/10/2016 11:59 AM Prescriber: DR MUHD FAIZ FAIZUL BIN FAUZI		10/10/2016 08:00 am 13.5 mg	 -No schedule-	-No schedule-
Infusion Drug				
No Record.				

KAMARIAH BT AWANG SITI HABSAH BT MUST... WAD 4

Figure 3.1.2.1-2 Medication Administration Recording

STEP 2

Tap on column with ■ Overdue icon

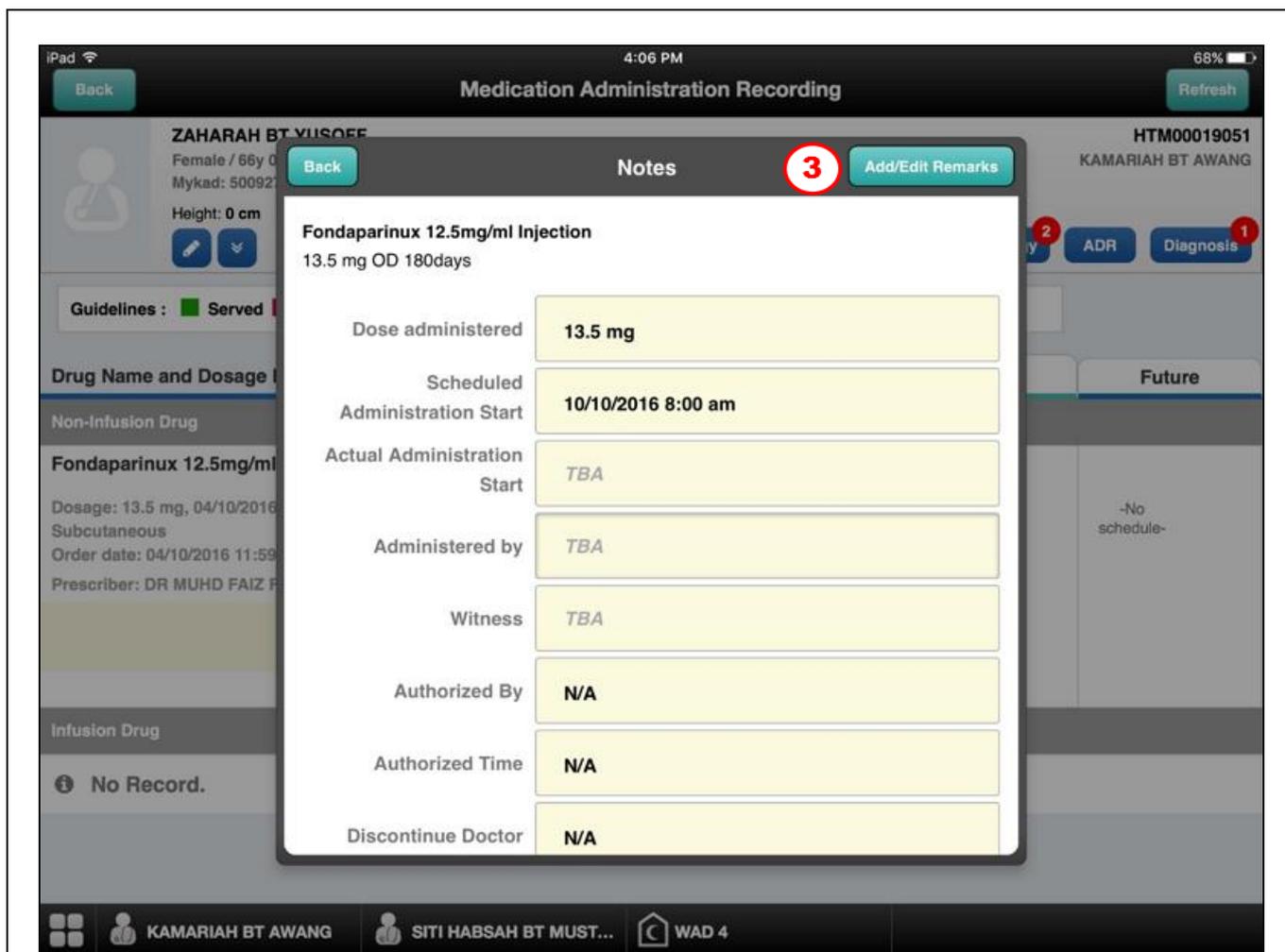


Figure 3.1.2.1-3 Medication Administration Recording

STEP 3

Tap on column  button

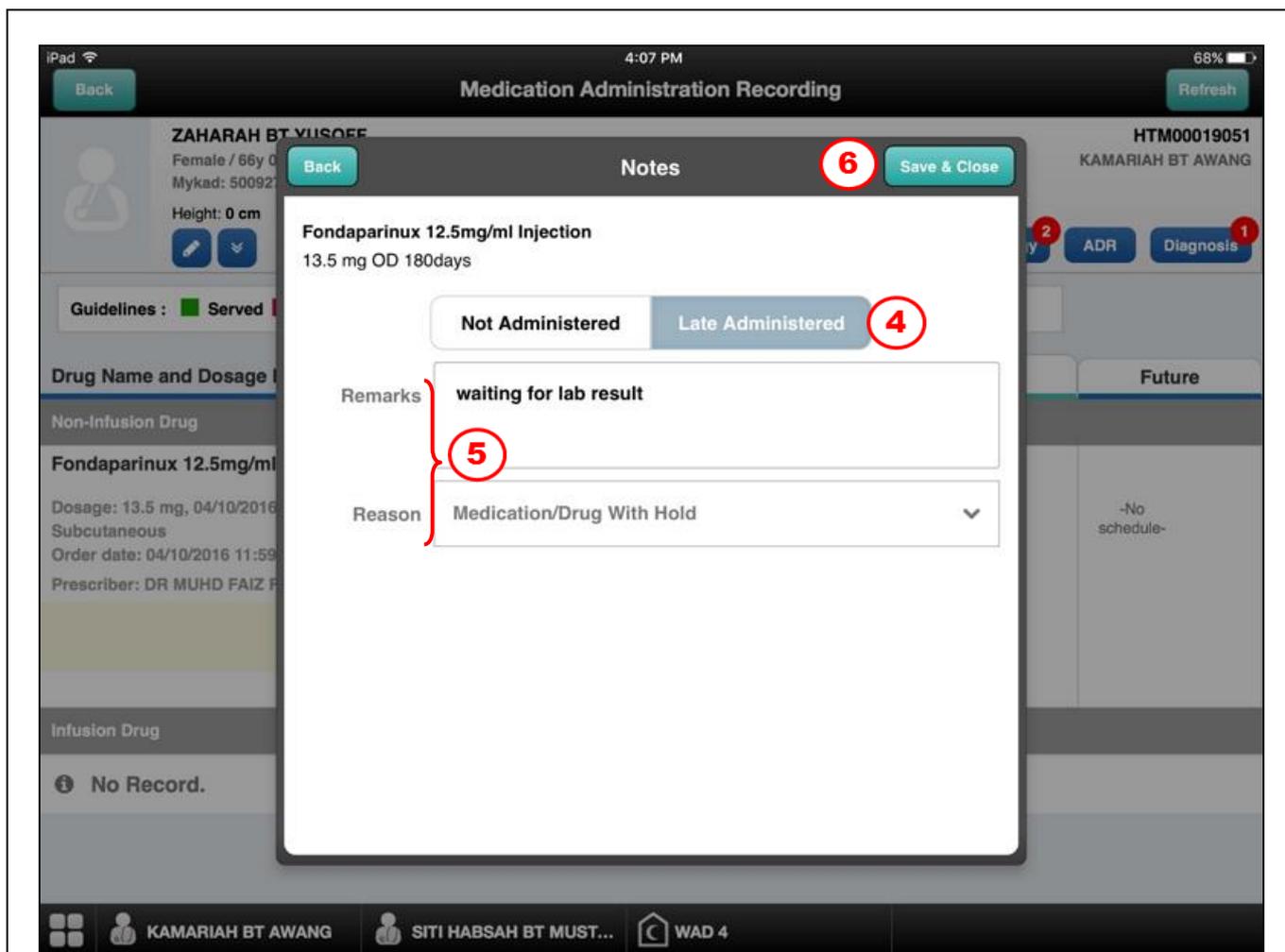


Figure 3.1.2.1-4 Medication Administration Recording

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

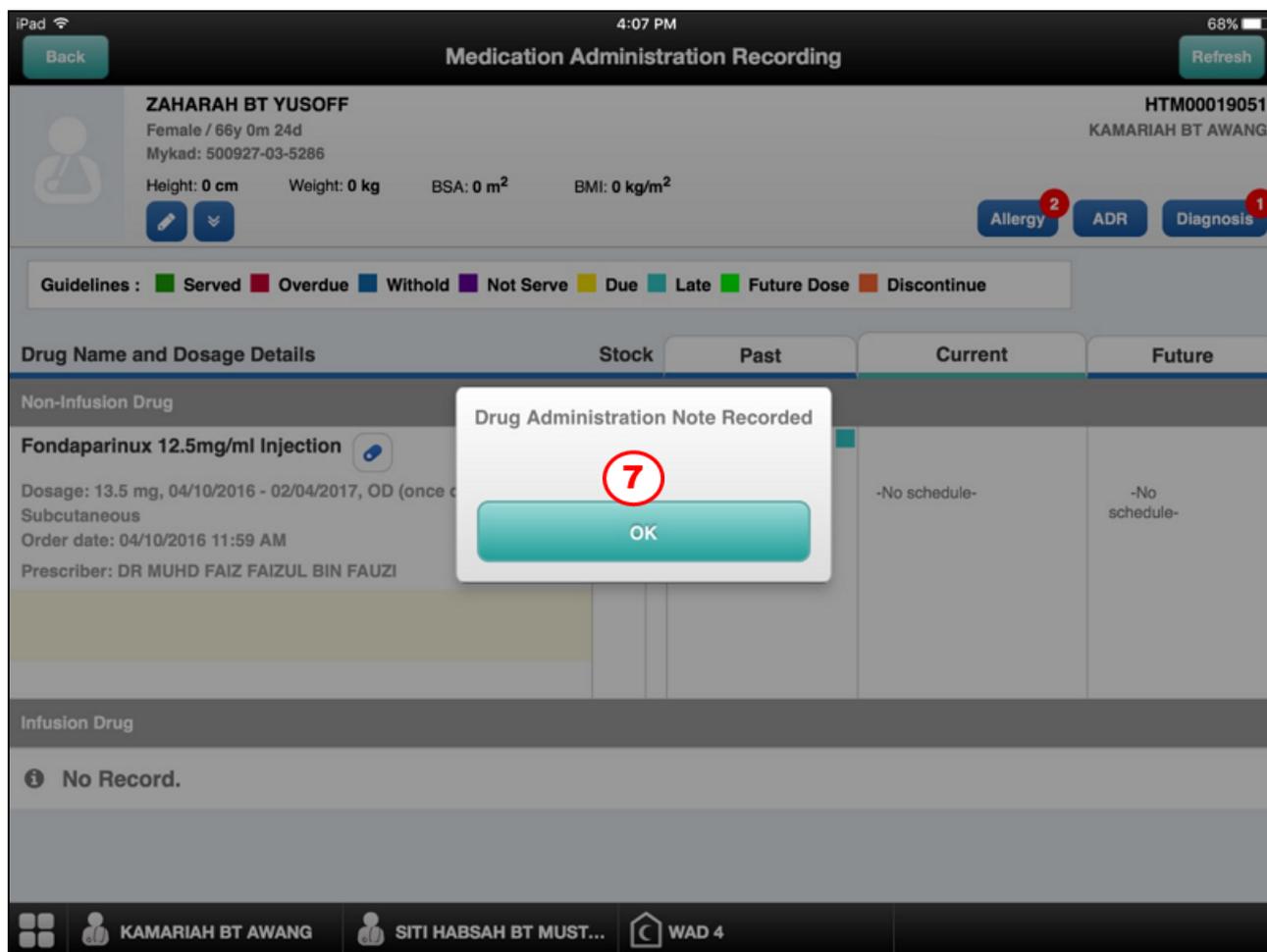


Figure 3.1.2.1-5 Medication Administration Recording

STEP 7

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

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Back
Medication Administration Recording
Refresh

ZAHARAH BT YUSOFF
 Female / 66y 0m 24d
 Mykad: 500927-03-5286
 Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

HTM00019051
 KAMARIAH BT AWANG

Allergy ²
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>Fondaparinux 12.5mg/ml Injection</p> <p>Dosage: 13.5 mg, 04/10/2016 - 02/04/2017, OD (once daily), Subcutaneous Order date: 04/10/2016 11:59 AM Prescriber: DR MUHD FAIZ FAIZUL BIN FAUZI</p>	<div style="width: 10px; height: 10px; background-color: cyan; margin: 0 auto;"></div>	<p>10/10/2016 08:00 am 13.5 mg</p>	<div style="width: 10px; height: 10px; background-color: cyan; margin: 0 auto;"></div>	<p>-No schedule-</p>
Infusion Drug				
<p>No Record.</p>				

KAMARIAH BT AWANG
 SITI HABSAH BT MUST...
 WAD 4

Figure 3.1.2.1-6 Medication Administration Recording

3.1.2.2 Not Administered

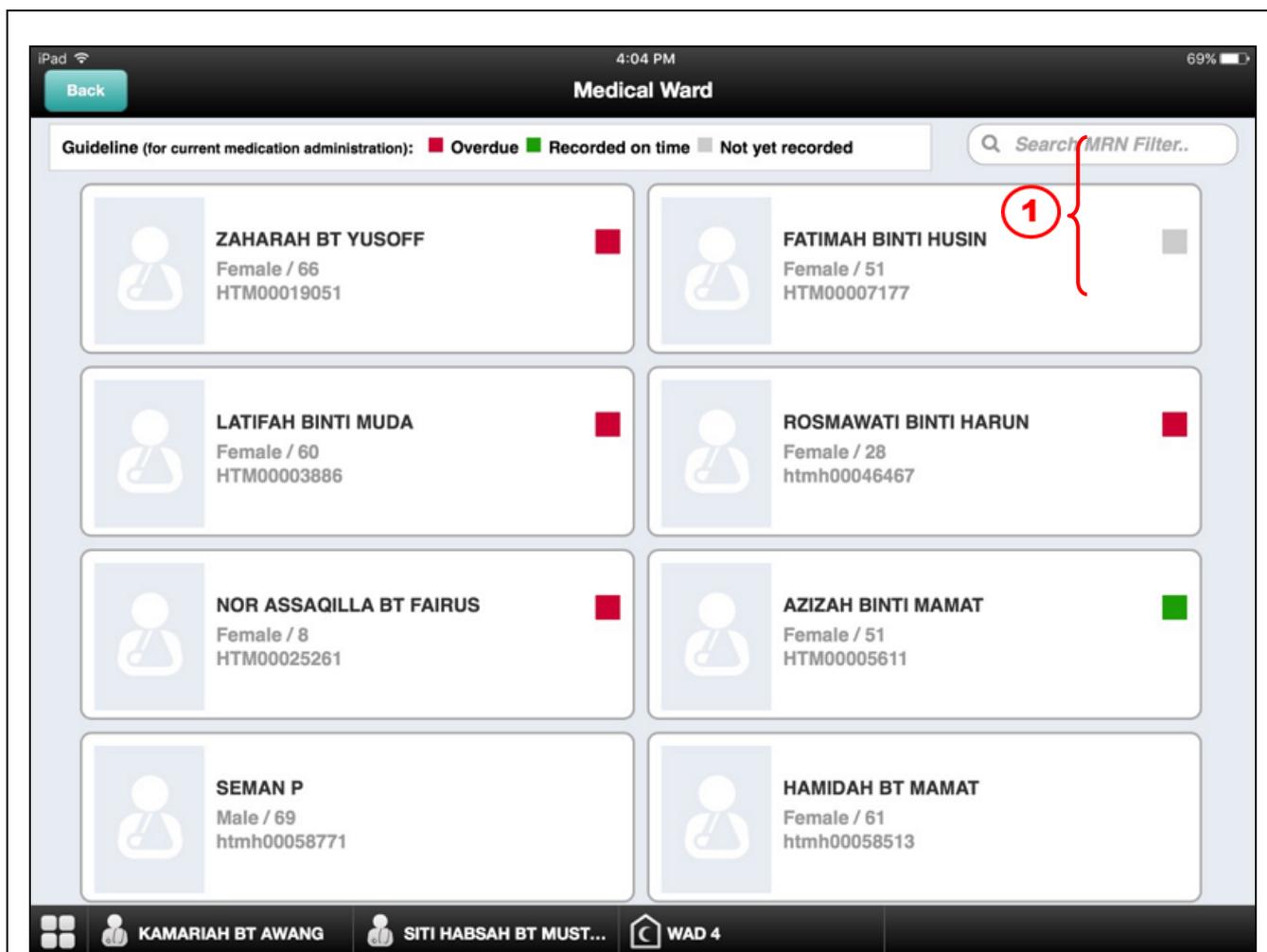


Figure 3.1.2.2-1 Patient Listing Page

STEP 1

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

iPad 4:07 PM 68%

Medication Administration Recording

LATIFAH BINTI MUDA
 Female / 60y 9m 19d
 Mykad: 560101-03-5700
 Height: 0 cm Weight: 0 kg BSA: 0 m² BMI: 0 kg/m²

HTM00003886
 KAMARIAH BT AWANG

Allergy ADR Diagnosis

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

Drug Name and Dosage Details	Stock	Past	Current	Future
Non-Infusion Drug				
Prednisolone 5 mg Tablet Dosage: 5 mg, 18/10/2016 - 25/10/2016, OD (once daily), Oral Order date: 18/10/2016 09:10 PM Prescriber: DR FARIDAH BTE SULONG @ AB. HADI		19/10/2016 08:00 am 5 mg	■ 2 -No schedule-	-No schedule-
Infusion Drug				
<i>No Record.</i>				

KAMARIAH BT AWANG SITI HABSAB BT MUST... WAD 4

Figure 3.1.2.2-2 Medication Administration Recording

STEP 2

Tap on column with ■ Overdue icon

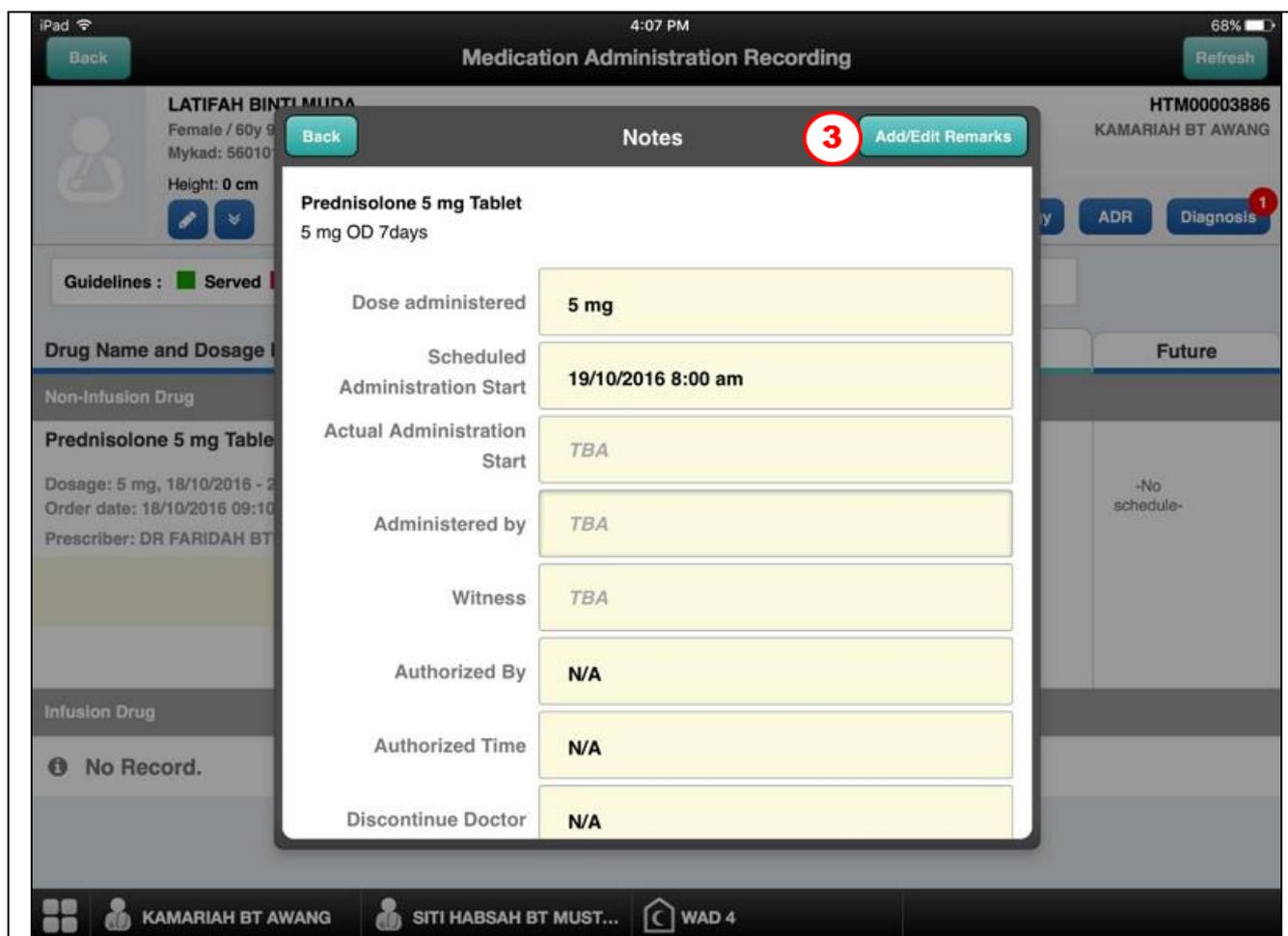


Figure 3.1.2.2-3 Medication Administration Recording

STEP 3

Tap on column  button

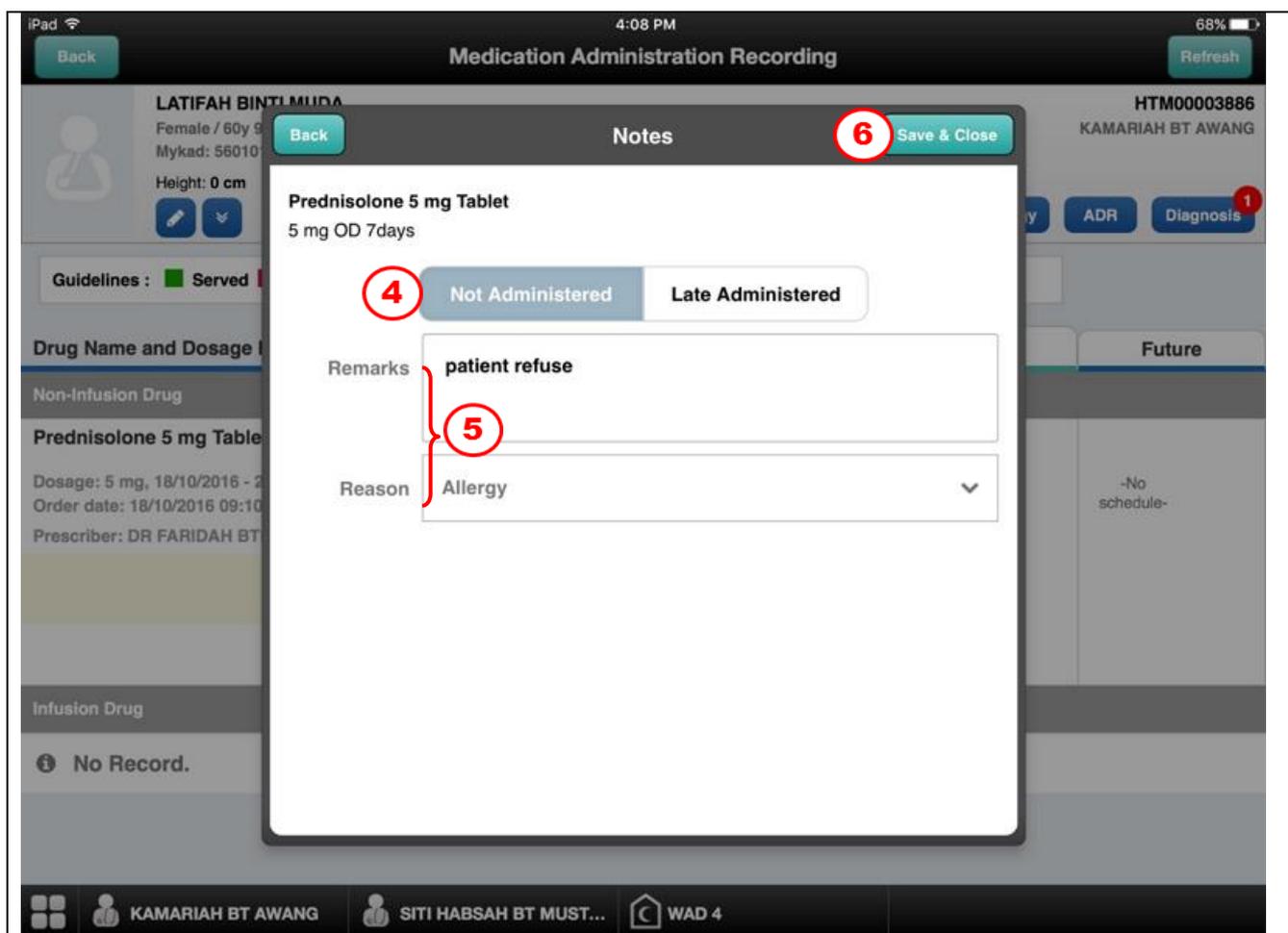


Figure 3.1.2.2-4 Medication Administration Recording

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

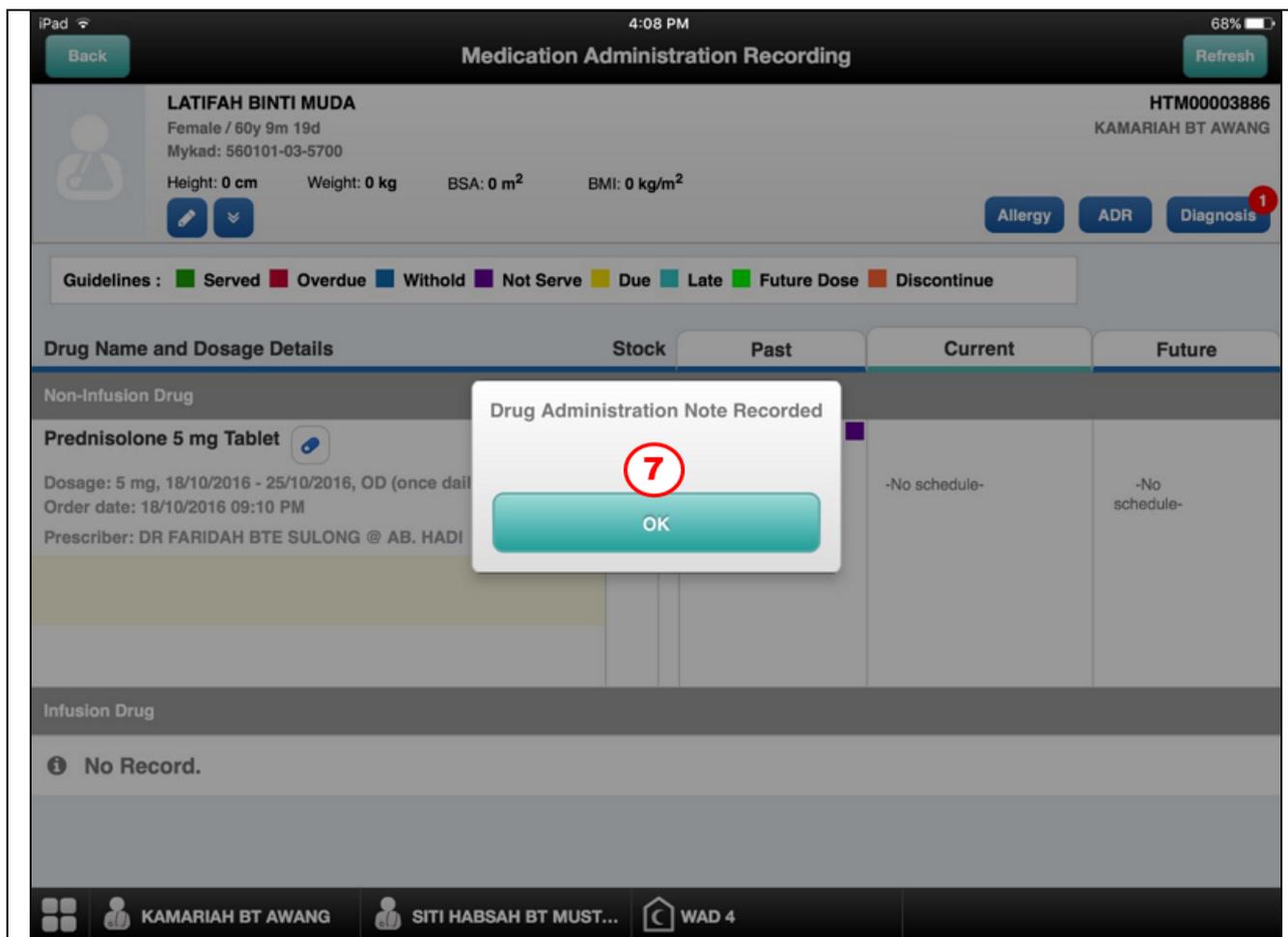


Figure 3.1.2.2-5 Medication Administration Recording

STEP 7

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

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Medication Administration Recording Back Refresh

LATIFAH BINTI MUDA HTM00003886
 Female / 60y 9m 19d KAMARIAH BT AWANG
 Mykad: 560101-03-5700
 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				
Prednisolone 5 mg Tablet Dosage: 5 mg, 18/10/2016 - 25/10/2016, OD (once daily), Oral Order date: 18/10/2016 09:10 PM Prescriber: DR FARIDAH BTE SULONG @ AB. HADI		19/10/2016 08:00 am 5 mg	-No schedule-	-No schedule-
Infusion Drug				
No Record.				

KAMARIAH BT AWANG SITI HABSAH BT MUST... WAD 4

Figure 3.1.2.2-6 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

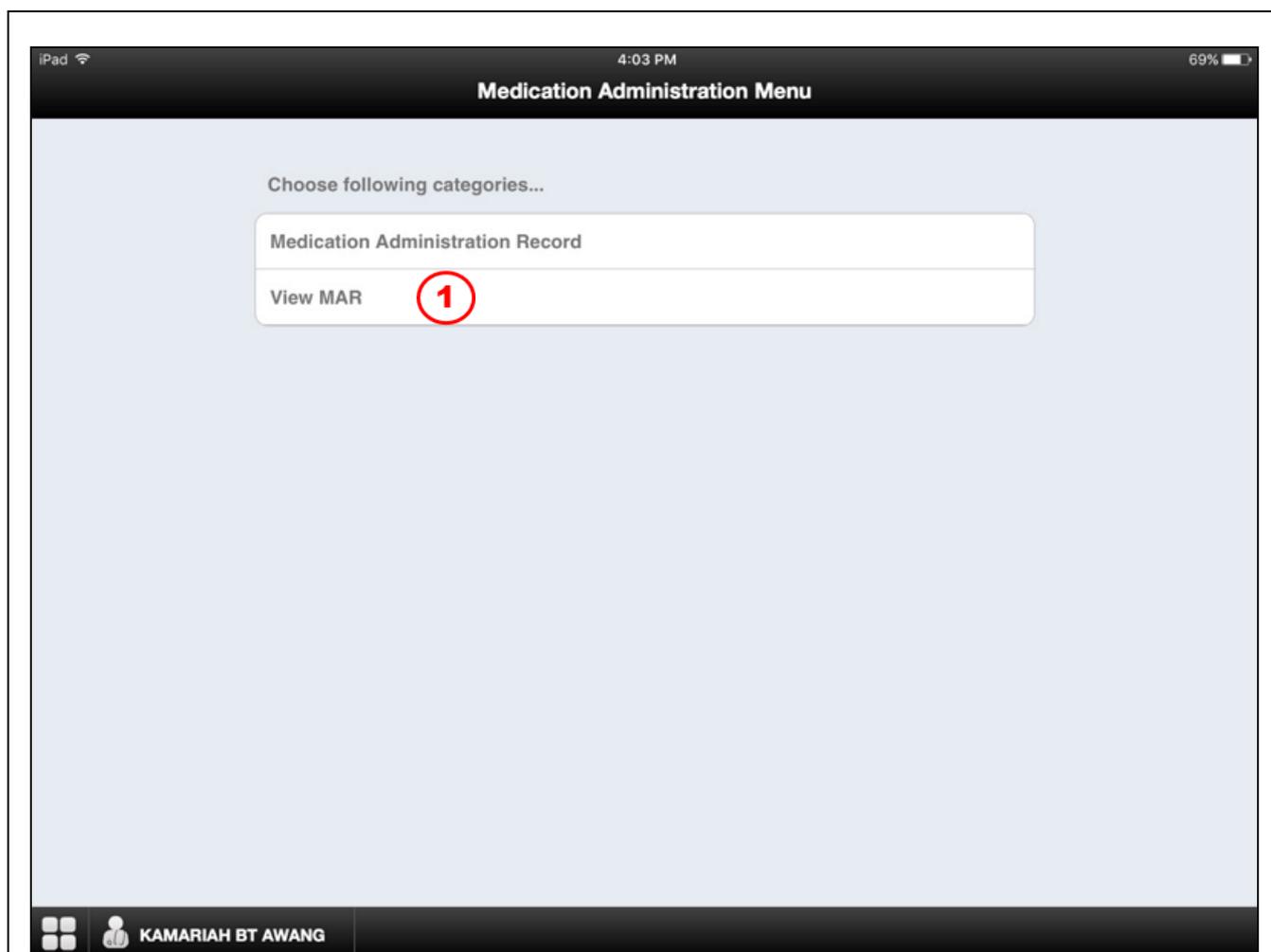


Figure 3.2.1-1 MAR Listing Page

STEP 1

Tap on the **View MAR**

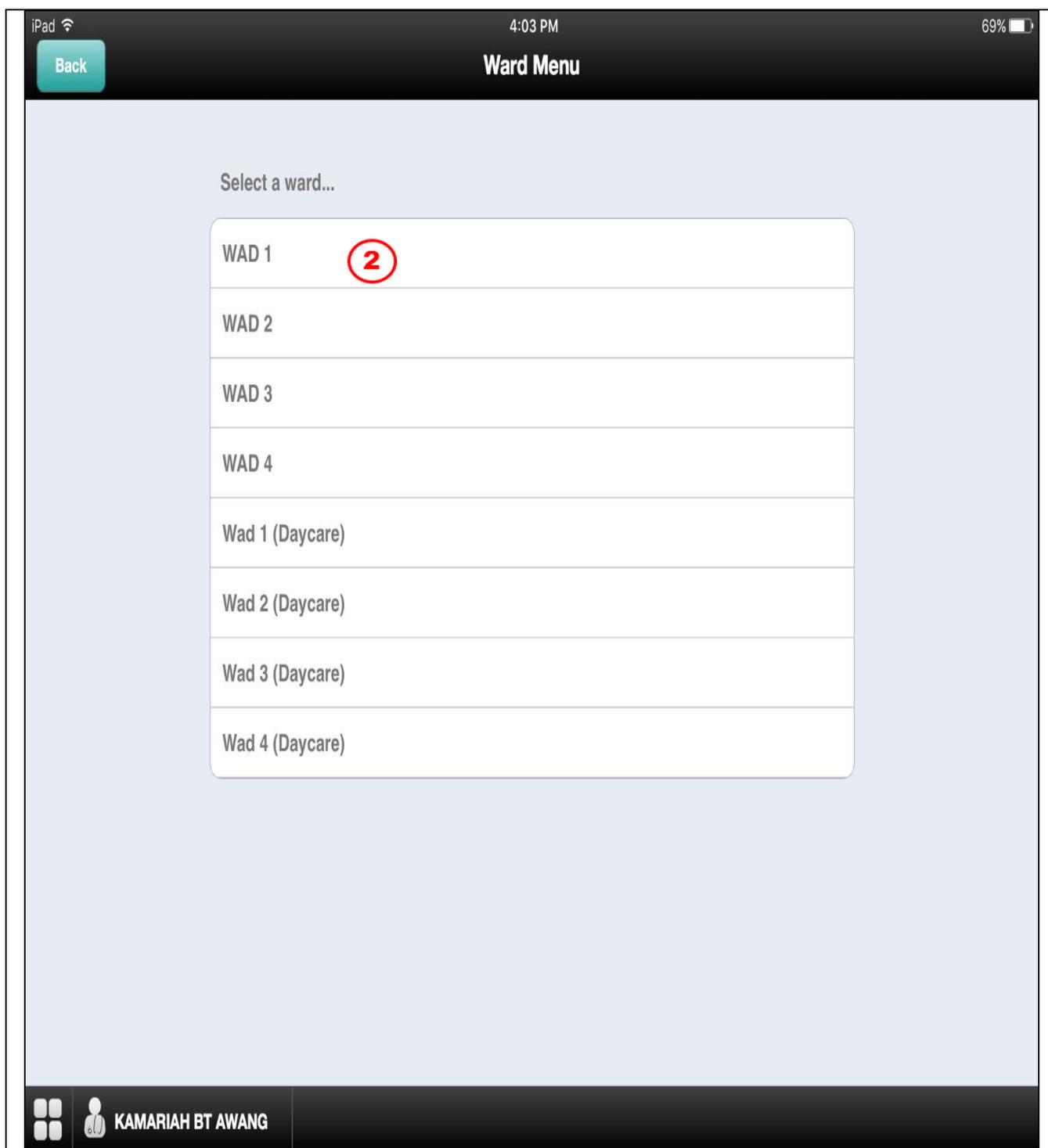


Figure 3.2.1-2 Location Screen Listing Page

STEP 2

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

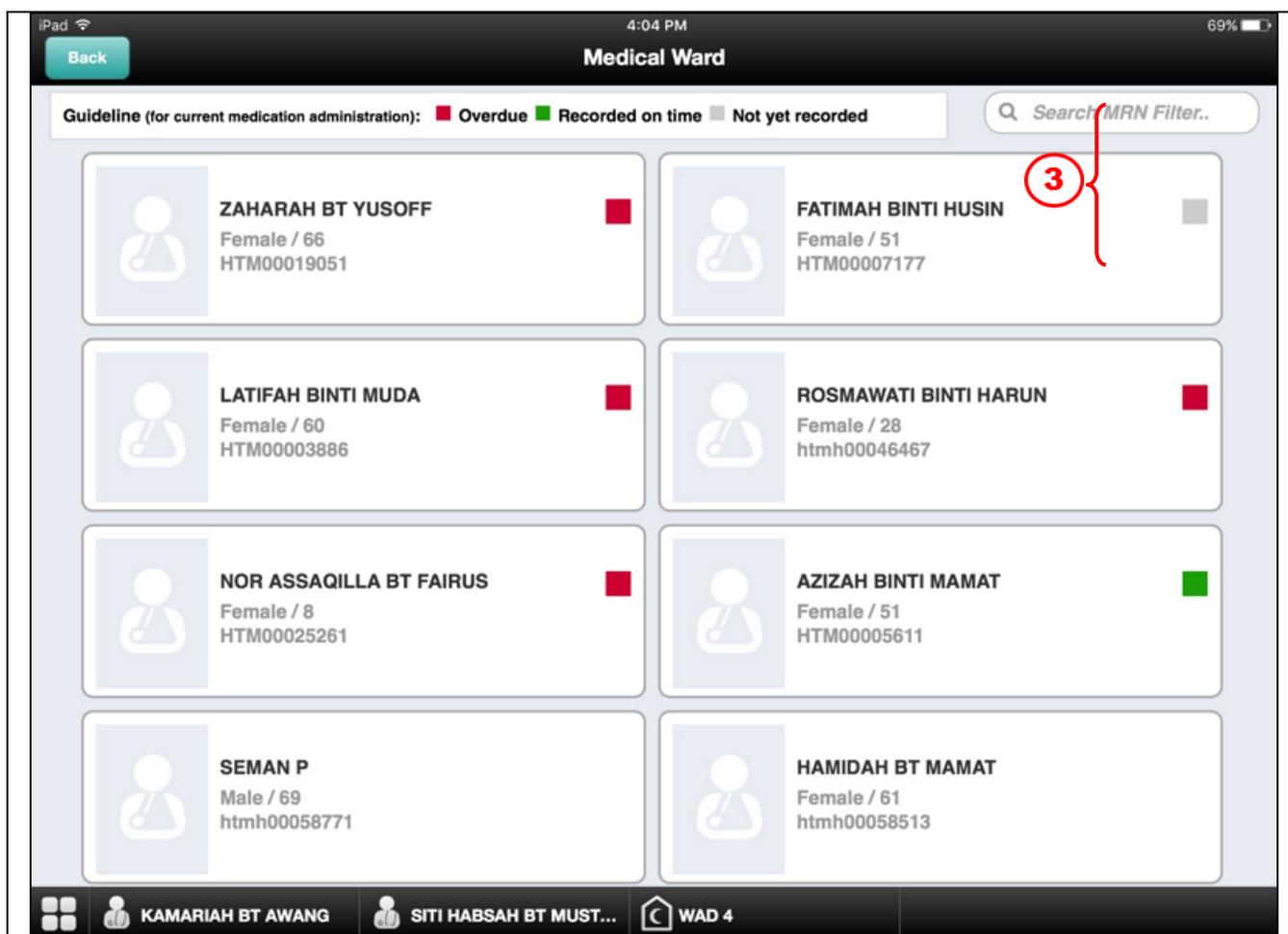


Figure 3.2.1-3 Patient Listing Page

STEP 3

Tap on selected patient name or search the patient by using ( Search MRN Filter..) field. System will display as 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

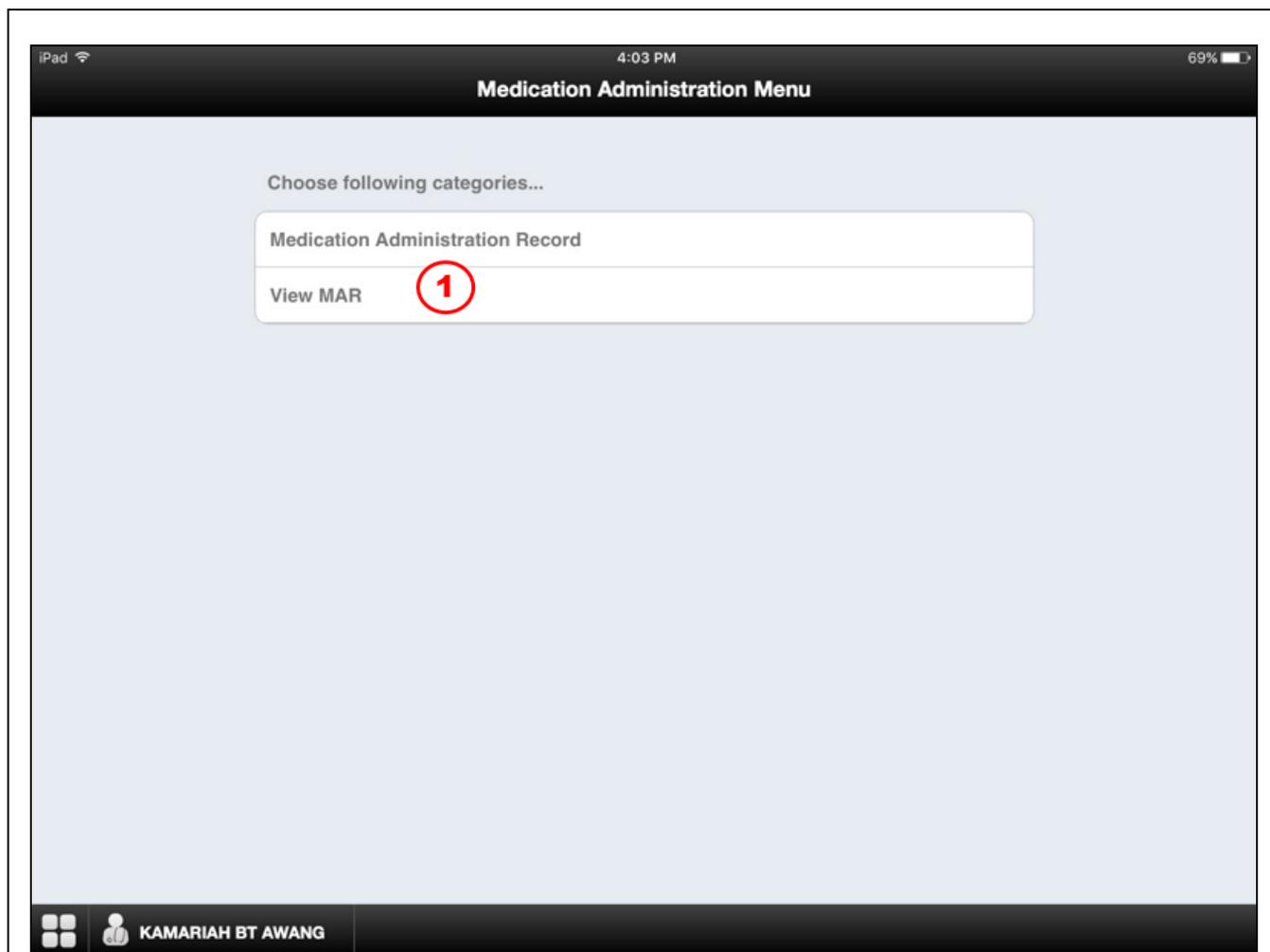


Figure 3.2.2-1 MAR Listing Page

STEP 1

Tap on the *View MAR*

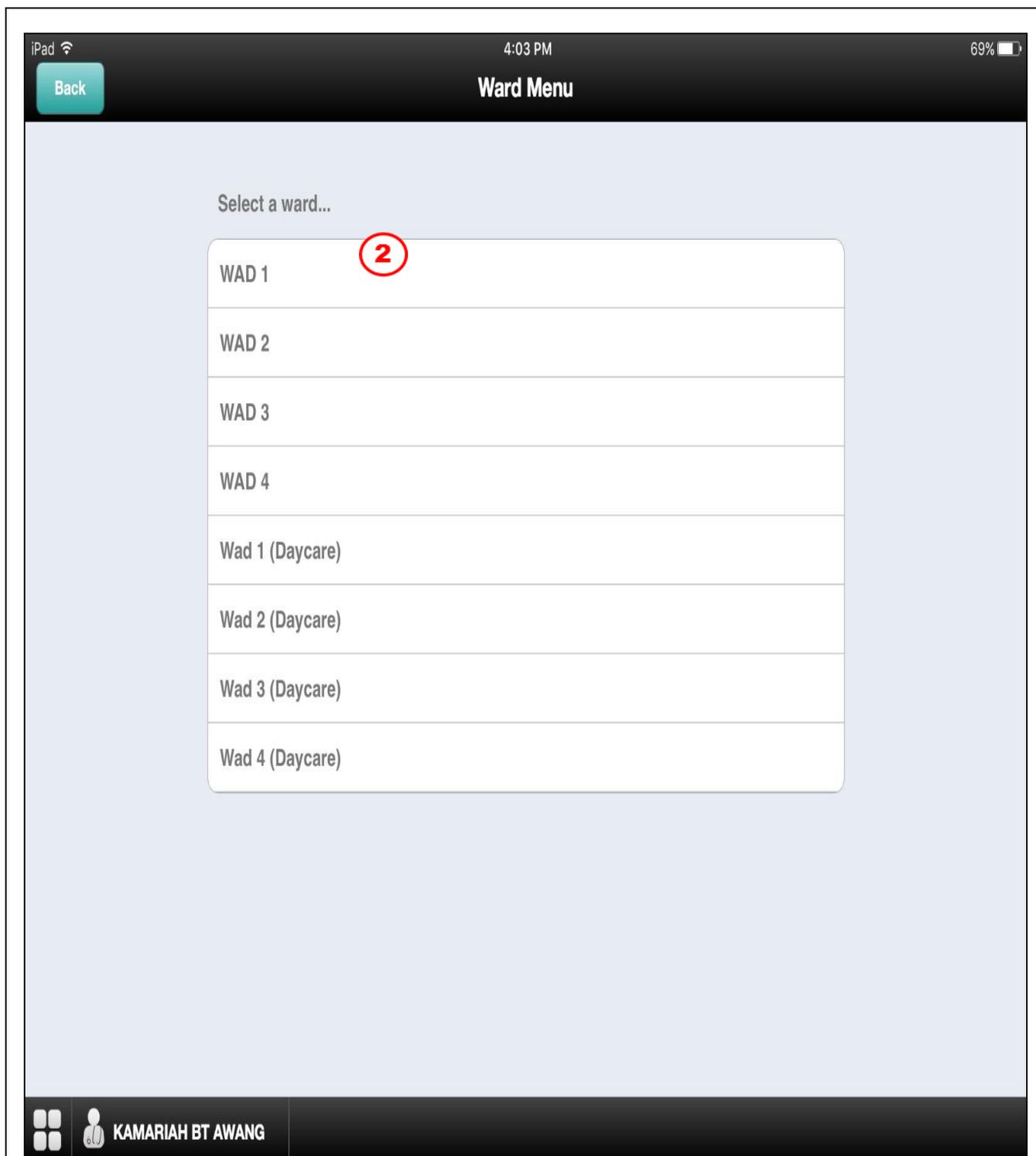


Figure 3.2.2-2 Location Screen Listing Page

STEP 2

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

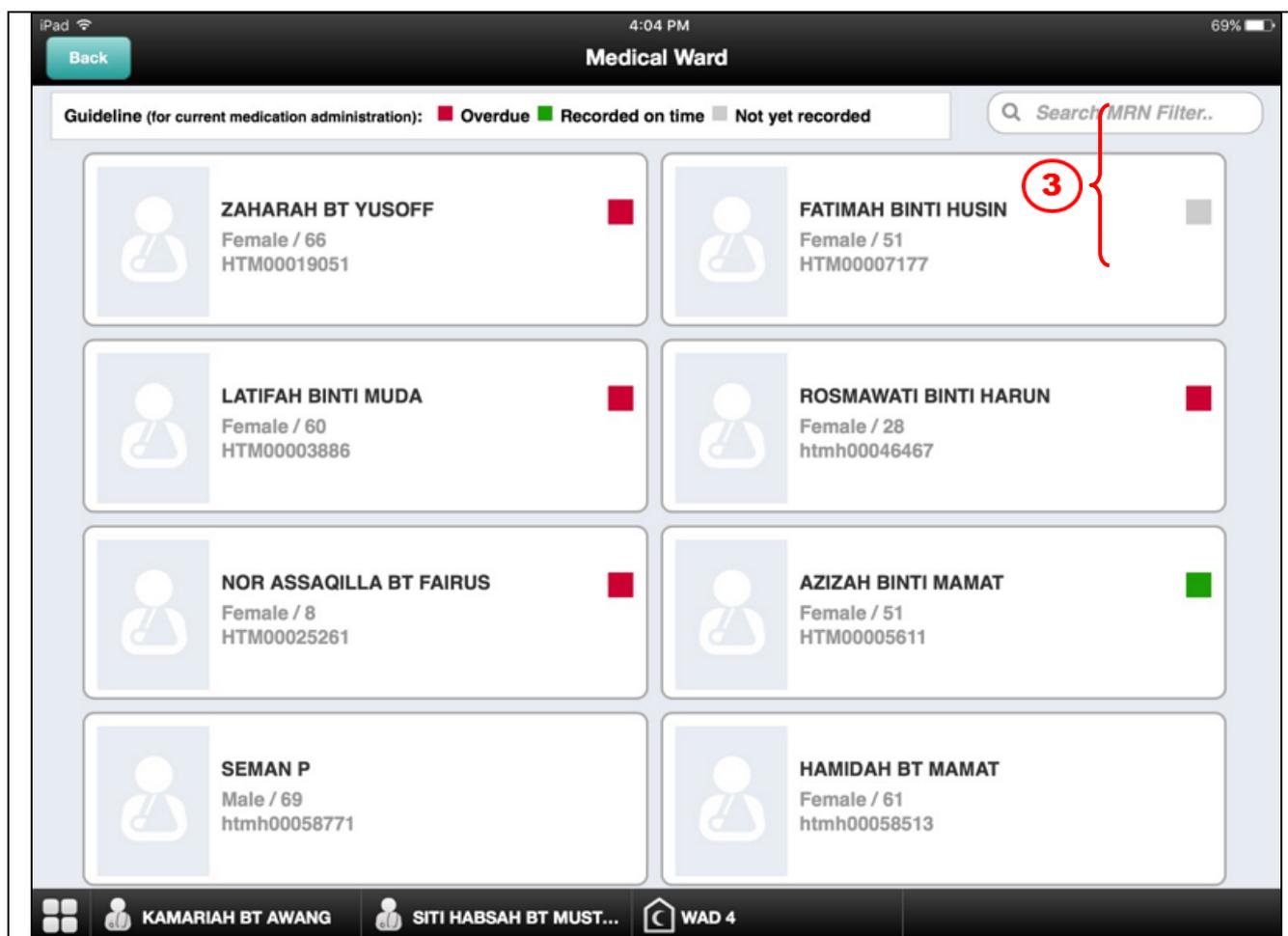


Figure 3.2.2-3 Patient Listing Page

STEP 3

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

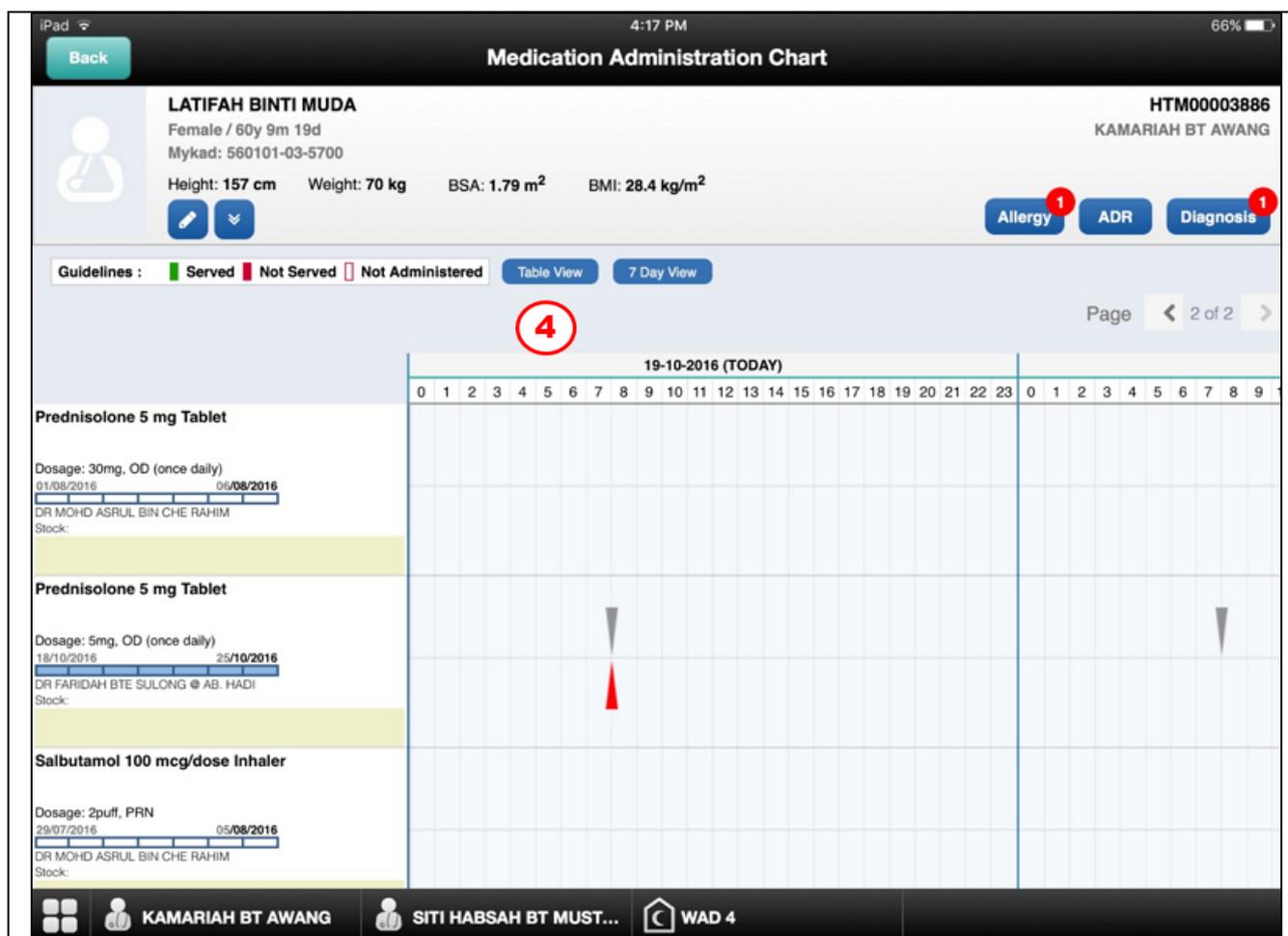


Figure 3.2.2-4 View MAR Graph View

STEP 4

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

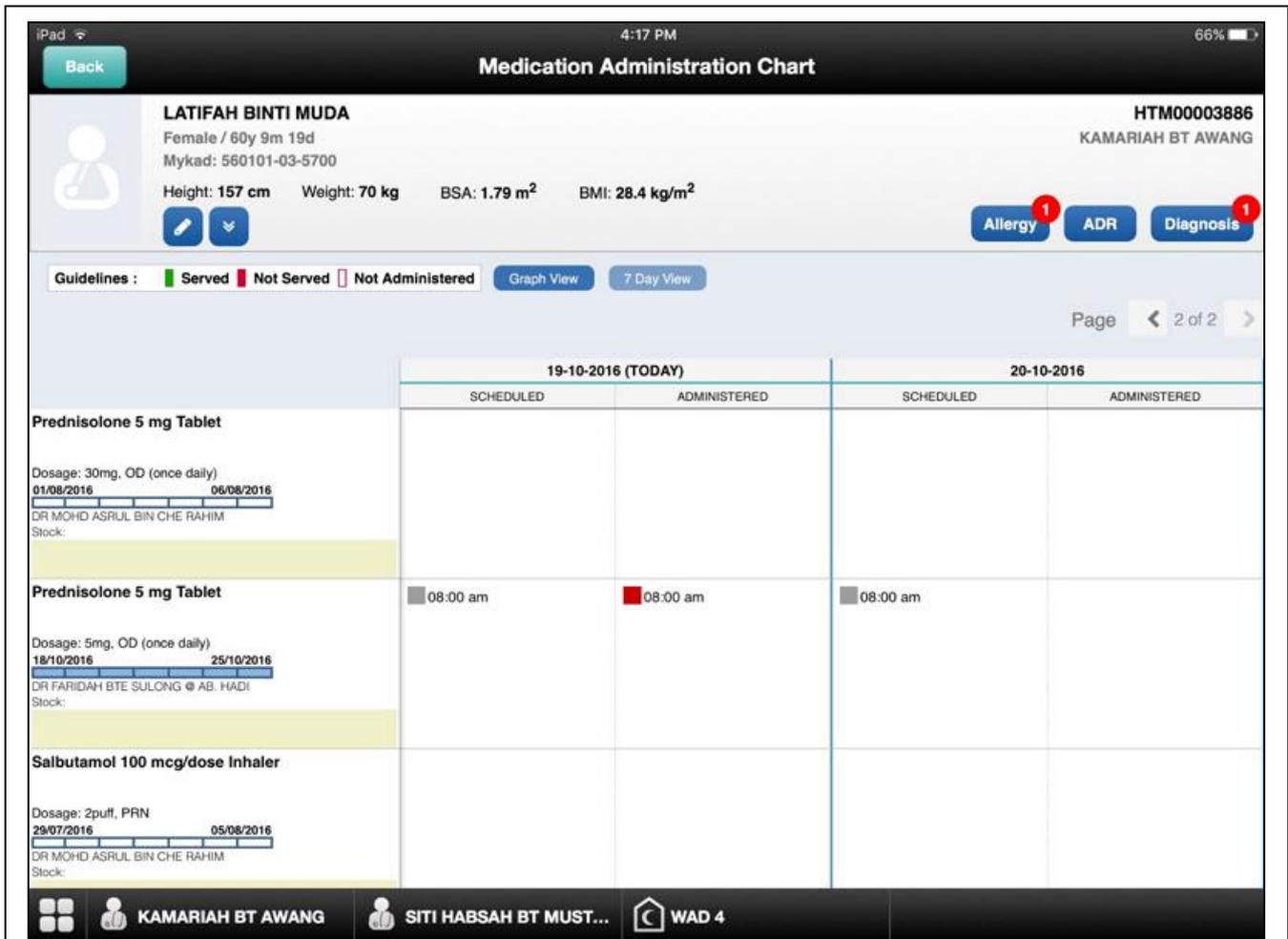


Figure 3.2.2-5 View MAR Table View

3.2.3 View MAR – 7 Days View.

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

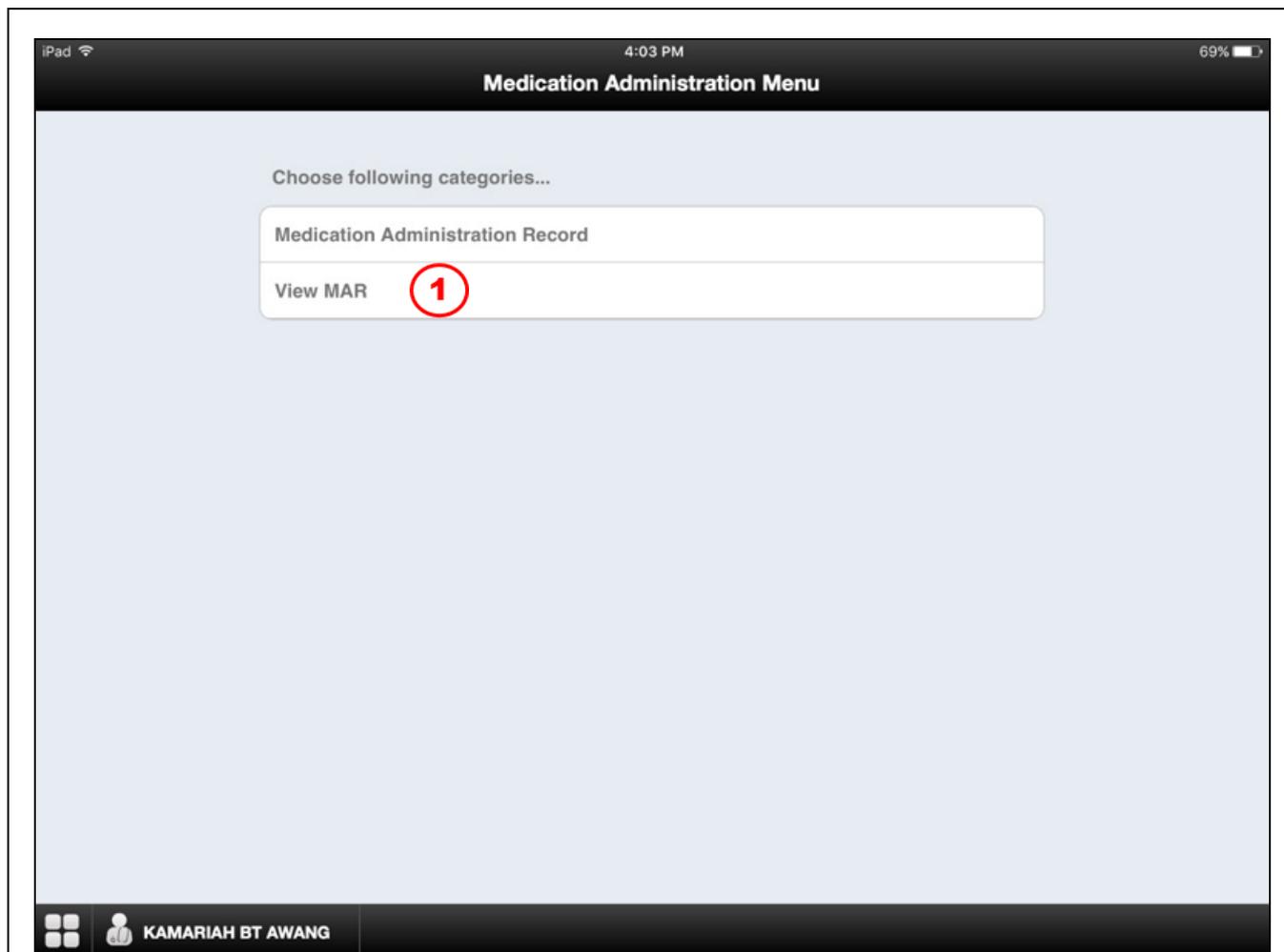


Figure 3.2.3-1 MAR Listing Page

STEP 1

Tap on the *View MAR*

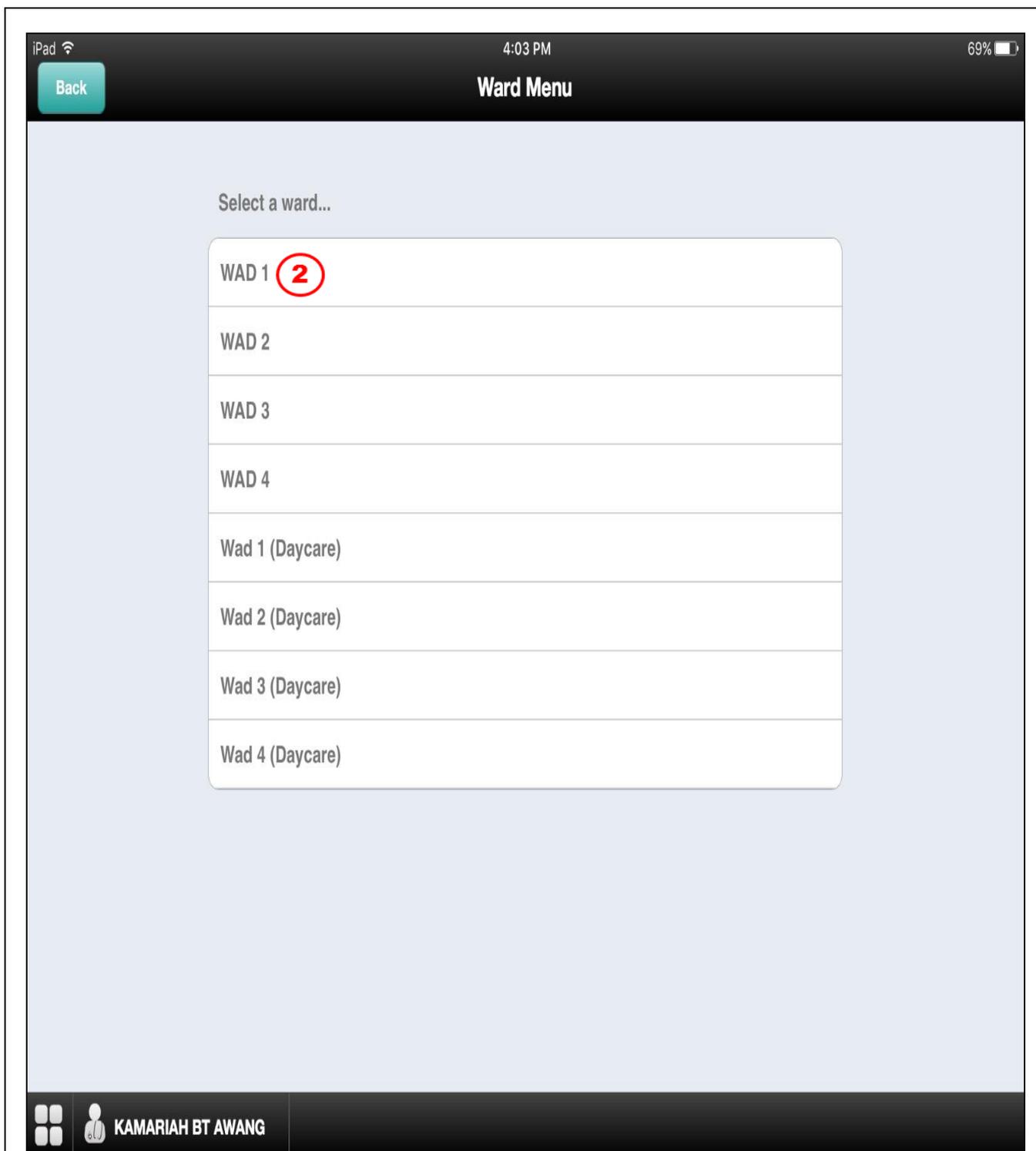


Figure 3.2.3-2 Location Screen Listing Page

STEP 2

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

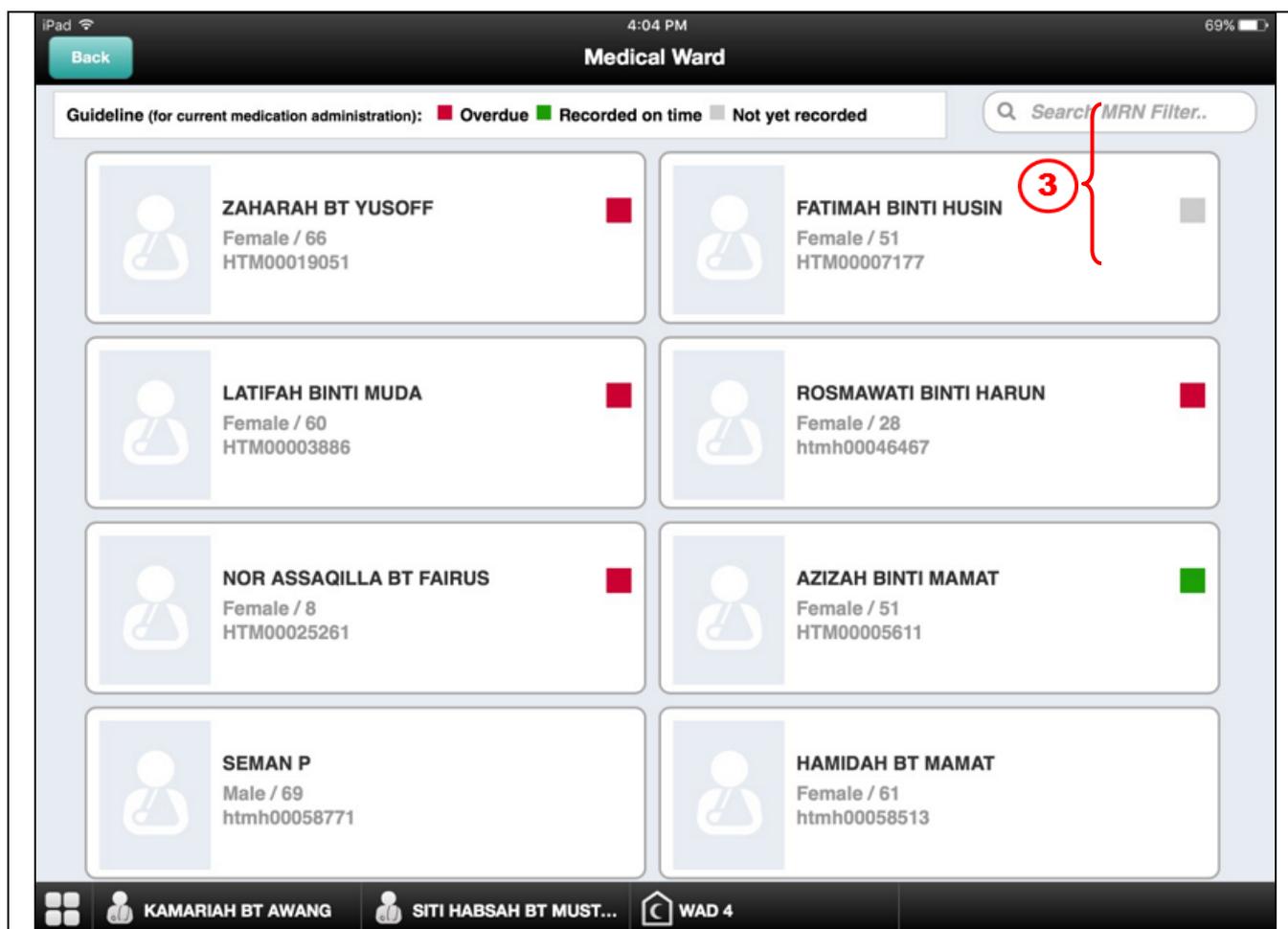


Figure 3.2.3-3 Patient Listing Page

STEP 3

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

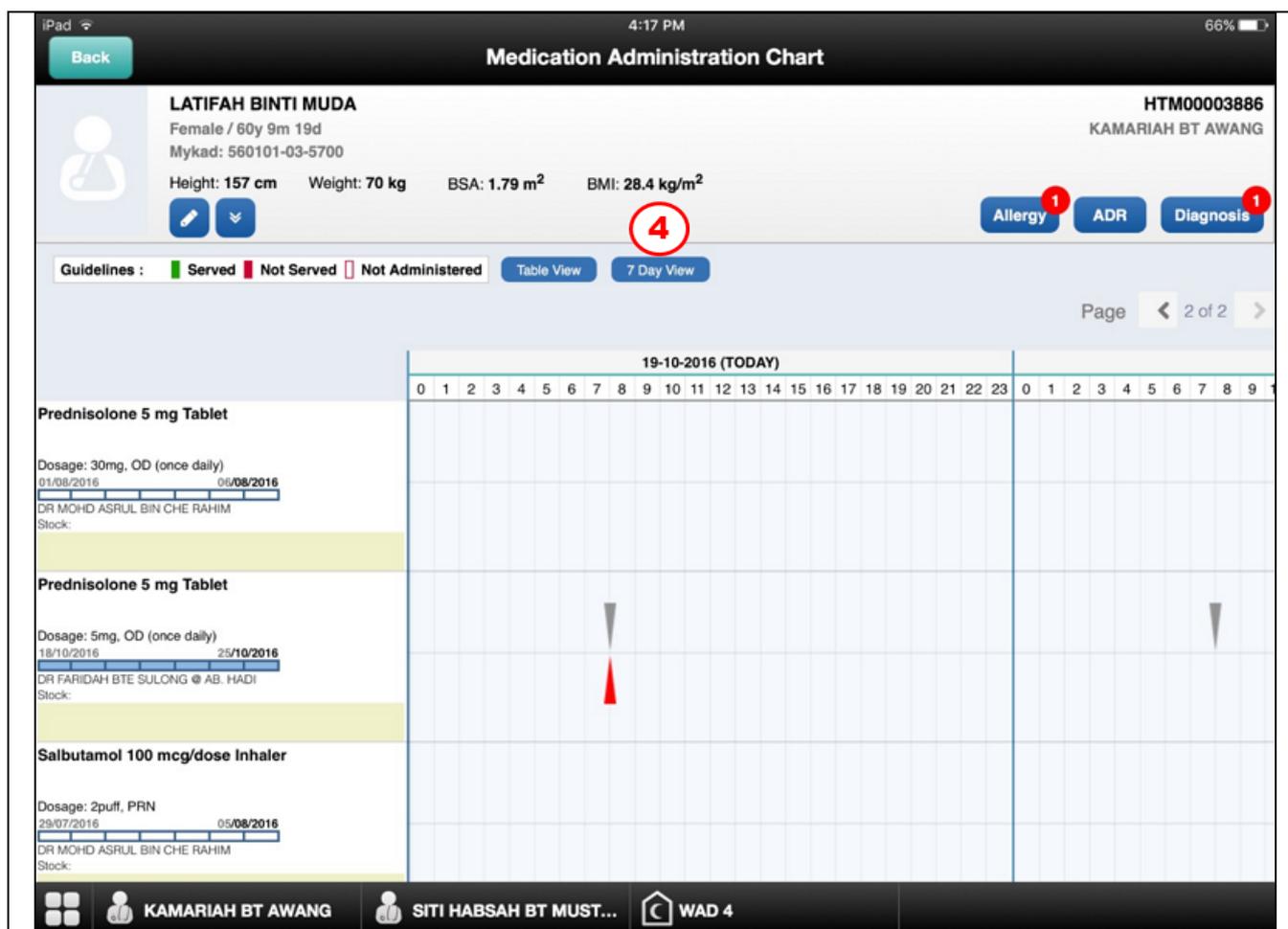
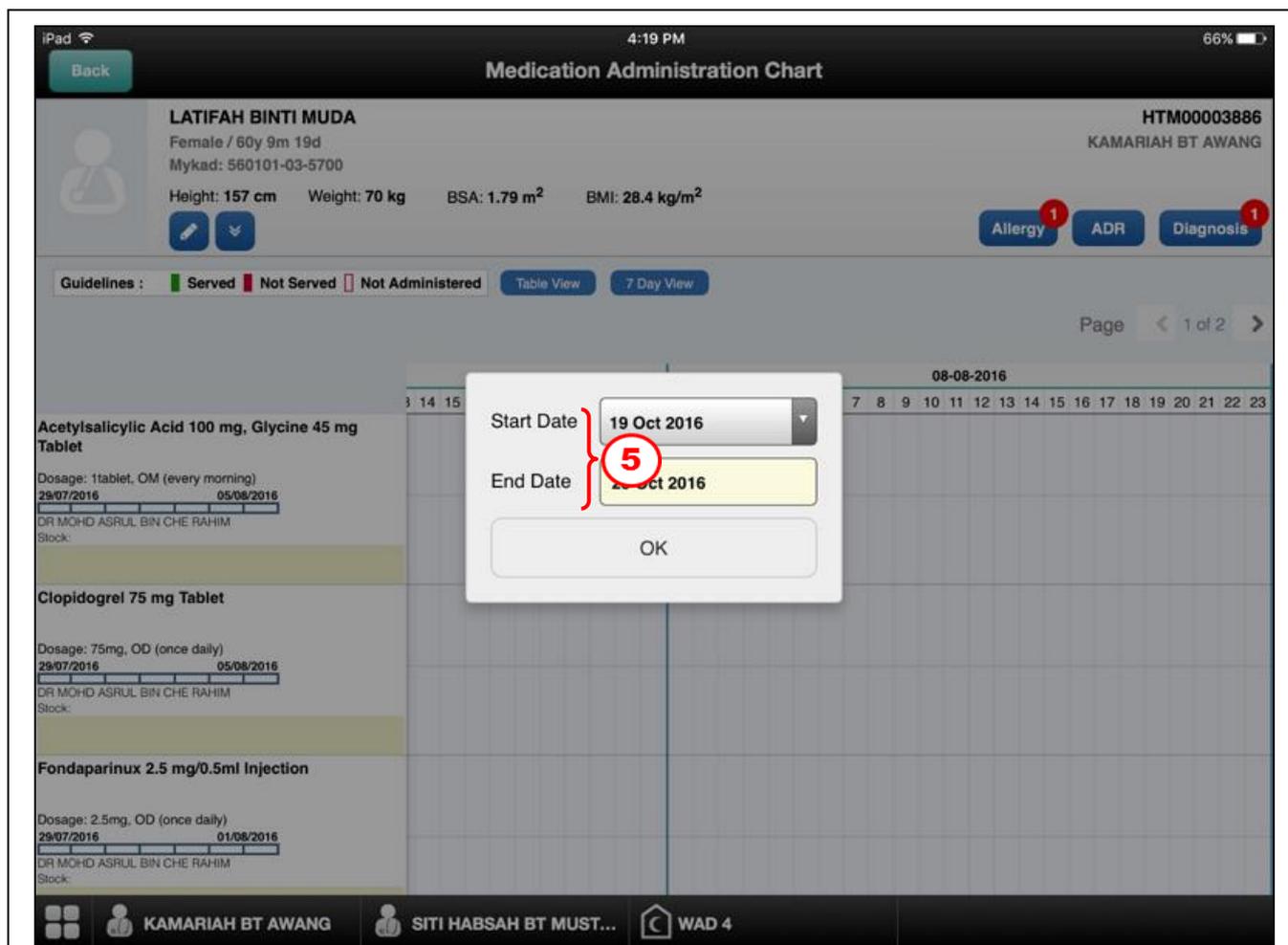


Figure 3.2.3-4 View MAR Graph View

STEP 4

Tap on the 7 Day View button



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

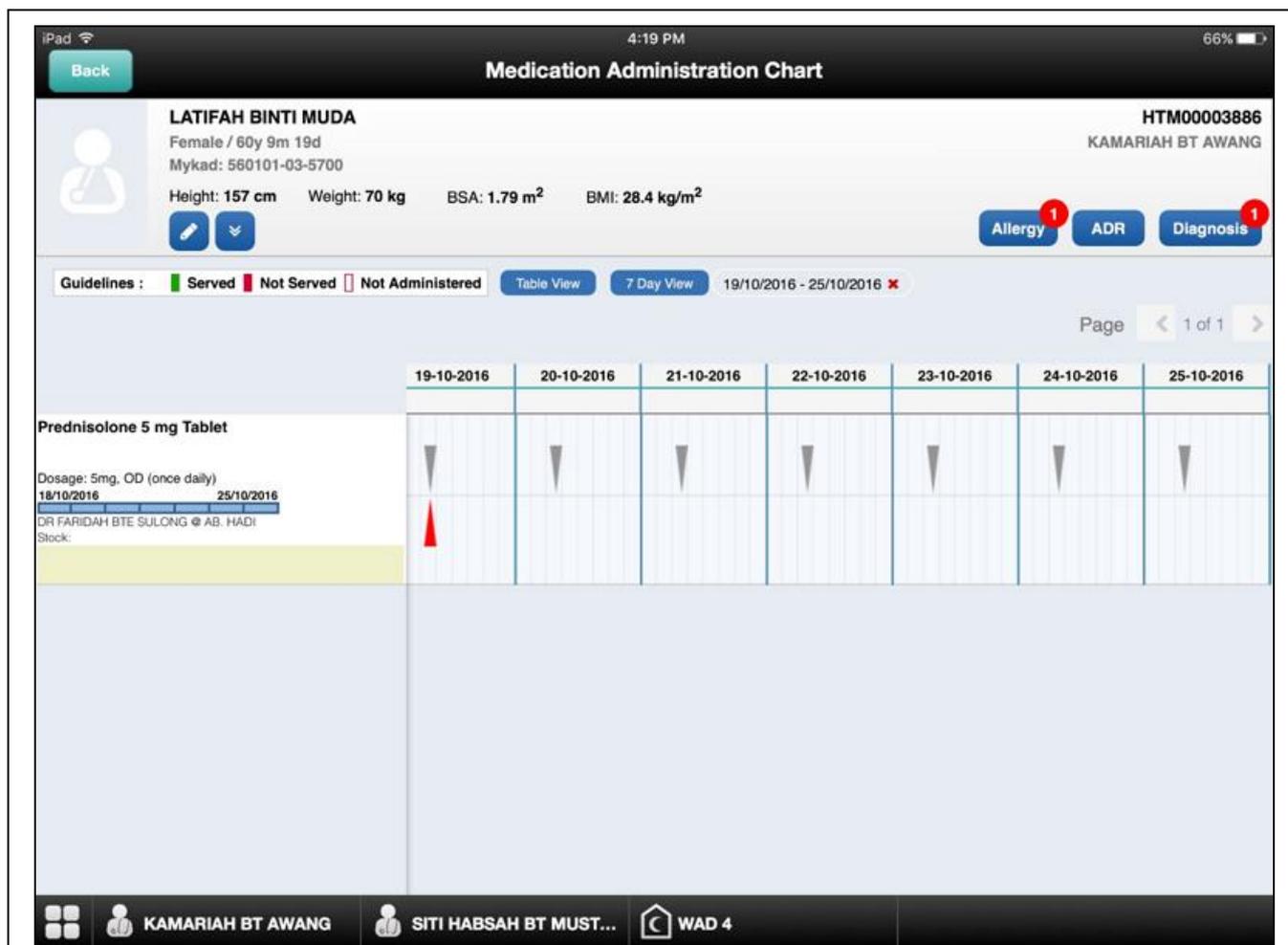


Figure 3.2.3-6 View MAR 7 Days View

View MAR Legend

ICON / SCREENSHOT	DESCRIPTION
	Drug Not Serve
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

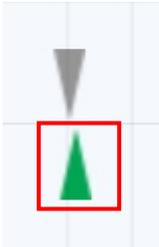
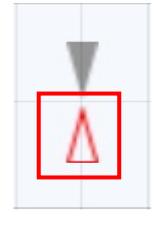
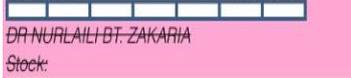
<p>Prednisolone 5 mg Tablet</p> <p>Dosage: 10mg, OD (once daily)</p> <p>16/10/2016 21/10/2016</p>  <p>DR MUHD FAIZ FAIZUL BIN FAUZI</p> <p>Stock:</p>	<p>Drug to be served remain 3 days</p>
	<p>Drug served</p>
	<p>Drug is not administered</p>
<p>Baclofen 10 mg Tablet</p> <p>Dosage: 10mg, TDS (3 times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