

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

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**Full Based**

## **User Manual Adverse Drug Reaction (ADR) & Drug Allergy Card (DAC)**

<b>Version</b>	<b>: 6<sup>th</sup> Edition</b>
<b>Document ID</b>	<b>: FB_U. MANUAL_ADR_DAC</b>



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*Reference ID : FB\_U. MANUAL\_ADR & DAC-6<sup>th</sup> Edition*

*Application reference: PhIS & CPS v1.6.1*



## Table of Contents

1.0	Introduction .....	1
1.1	Overview of PhIS .....	1
1.2	Purpose and Objectives .....	1
1.3	Organised Sections .....	1
2.0	Application Standard Features .....	2
2.1	PhIS Legend .....	2
3.0	Adverse Drug Reaction & Drug Allergy Card .....	4
	Overview .....	4
	User Group .....	4
	Functional Diagram .....	4
	Functional Description .....	4
3.1	ADR Reporting .....	5
3.1.1	Transcribe ADR Reporting .....	5
3.2	NPCB Feedback .....	14
3.2.1	Transcribe NPCB Feedback .....	14
3.3	Adverse Event Following Immunization .....	16
3.3.1	Transcribe Adverse Event Following Immunisation .....	16
3.4	Print Allergy Card .....	21
4.0	Acronyms .....	23
5.0	Links to Clinical Modules .....	23



## 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 to 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
7. Manufacturing of Cytotoxic Drug Reconstitution, Parenteral Nutrition, IV 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 Adverse Drug Reaction (ADR) and Drug Allergy Card (DAC) sub-module and its key features and functionalities. The primary objective is to guide user through the process of completing PhIS application process.

User will understand the following activities in details:

- ADR Reporting
- NPCB Feedback
- Adverse Event Following Immunisation
- Print Allergy Card

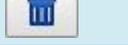
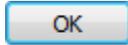
### 1.3 Organised Sections

These are the sections within this document:

- Section 1 : Introduction
- Section 2 : Application Standard Features
- Section 3 : Adverse Drug Reaction (ADR) & Drug Allergy Card (DAC)
- Section 4 : Acronyms
- Section 5 : Links to Clinical Modules

## 2.0 Application Standard Features

### 2.1 PhIS Legend

Standard Legend			
	Login to PhIS		Logout from PhIS
	Close All Open Tabs		Refresh Screen
	Expand Menu		Collapse Menu
	Expand Module		Collapse Module
	Add/Create New Record		Save
	Close Window		Calendar Icon
	Save Transaction		Delete Record
	Export Report From PDF file to Excel file		OK Button
	Yes Button		No Button
	Radio Button	<input type="checkbox"/>	Checkbox
	System Automatic Generate Record No.		Automatically Display/Retrieve Box
	Reset Login Screen		Cancel
	Display Home Tab		Search Icon
	Show Help		Edit Record
	Search Record		Cancel Button
	Dropdown Box	<input type="text"/>	Empty Text Box
*	Mandatory Field		



ADR & DAC Module Legend			
<a href="#">Print In Malay</a>	Print DAC card in Malay	<a href="#">Causality Grading</a>	Causality Grading Guide
<a href="#">Print In English</a>	Print DAC card in English	<a href="#">WHO Terminology Guide</a>	WHO Terminology Guide Hyperlink

**Note**

To learn more about Login Information, kindly click [Login Information](#) module for descriptive steps.

### 3.0 Adverse Drug Reaction & Drug Allergy Card

#### Overview

The Adverse Drug Reaction module converse the implementation of a safe, organised, and efficient adverse drug reaction reporting, adverse reaction after immunisation reporting and allergy card printing

#### User Group

This module is intended for pharmacist and prescriber.(subject to the user assigned by the facility)

#### Functional Diagram

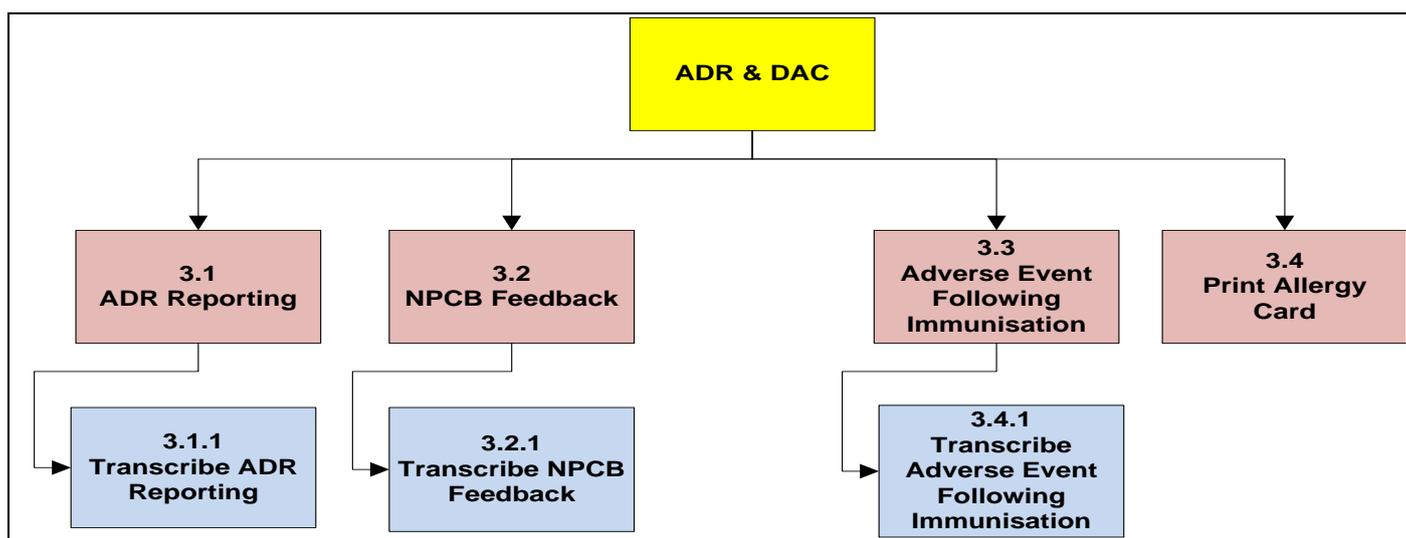


Figure 3.0

#### Functional Description

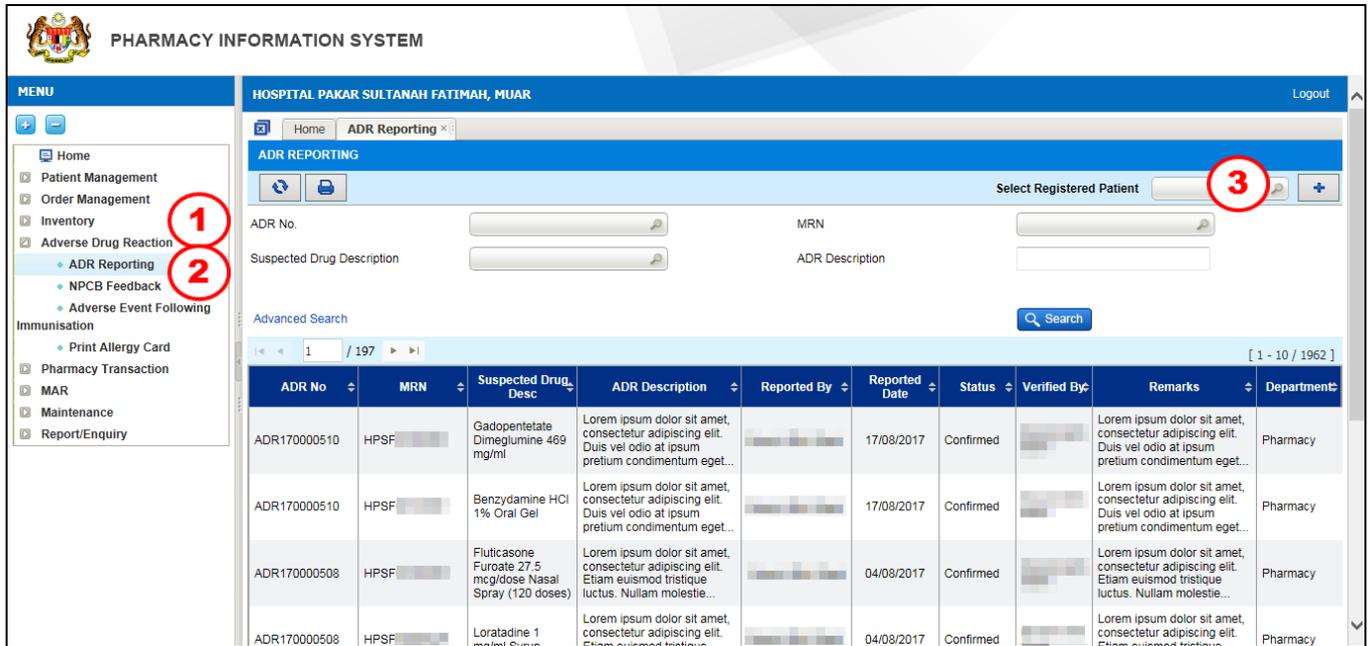
ADR & DAC comprises of four (4) main functions:

- ADR Reporting**  
 This process is used by prescriber and pharmacist to record any adverse drug reaction of the patient. The format is similar to the Adverse Drug Reaction Form by National Pharmaceutical Control Bureau (NPCB).
- NPCB Feedback**  
 This process is used by pharmacist to record any feedback on the ADR Reporting sent to National Pharmaceutical Control Bureau (NPCB) into the system.
- Adverse Event Following Immunisation**  
 This process used by prescriber and pharmacist to record any adverse reaction after immunisation.
- Print Allergy Card**  
 This process is used by pharmacist to print an allergy card for the patient. The allergy record is created based on allergy reported by prescriber.

### 3.1 ADR Reporting

#### 3.1.1 Transcribe ADR Reporting

This function is used to record any drug reaction of the patient before sending to NPCB.



**PHARMACY INFORMATION SYSTEM**

HOSPITAL PAKAR SULTANAH FATIMAH, MUAR

Home ADR Reporting

ADR REPORTING

Select Registered Patient

ADR No. MRN

Suspected Drug Description ADR Description

Advanced Search Search

ADR No	MRN	Suspected Drug, Desc	ADR Description	Reported By	Reported Date	Status	Verified By	Remarks	Department
ADR170000510	HPSF	Gadopentetate Dimeglumine 469 mg/ml	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vel odio at ipsum pretium condimentum eget...		17/08/2017	Confirmed		Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vel odio at ipsum pretium condimentum eget...	Pharmacy
ADR170000510	HPSF	Benzylamine HCl 1% Oral Gel	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vel odio at ipsum pretium condimentum eget...		17/08/2017	Confirmed		Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vel odio at ipsum pretium condimentum eget...	Pharmacy
ADR170000508	HPSF	Fluticasone Furoate 27.5 mcg/dose Nasal Spray (120 doses)	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod tristique luctus. Nullam molestie...		04/08/2017	Confirmed		Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod tristique luctus. Nullam molestie...	Pharmacy
ADR170000508	HPSF	Loratadine 1 mg/dose Tablet	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod tristique luctus. Nullam molestie...		04/08/2017	Confirmed		Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam euismod tristique luctus. Nullam molestie...	Pharmacy

Figure 3.1.1-1 ADR Reporting Listing Page

**Note**

PHIS Screen menu/sub menu will be displayed according to user access right.

**STEP 1**

Click on 'Adverse Drug Reaction' menu

**STEP 2**

Click on 'ADR Reporting' sub-menu

**STEP 3**

Click on the  button to search for patient record

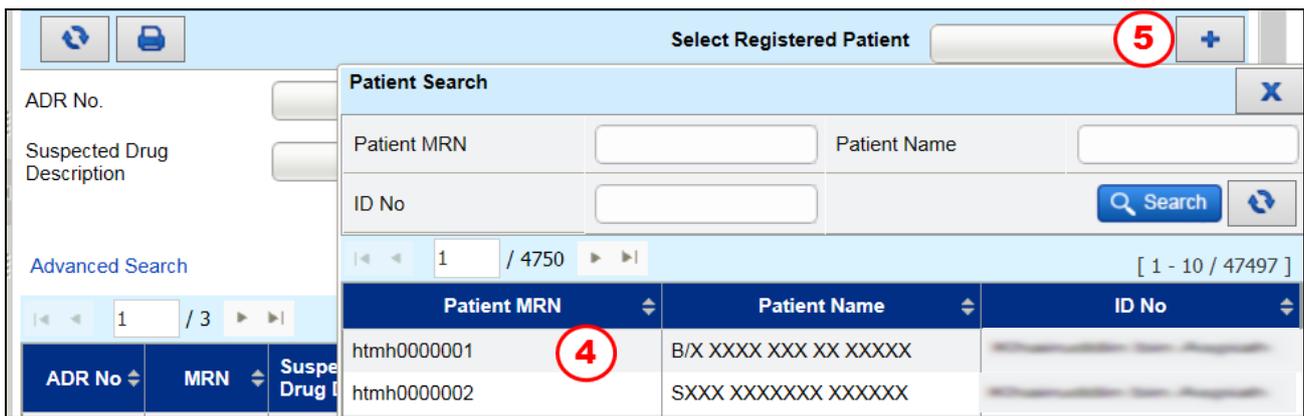
**Note**

Search for ADR Reporting record by below criteria :-

Basic Search			
No	Field	Description	Remark
a	ADR No	–	Allow to search record by full or partial ADR No
b	MRN	Patient MRN	Allow to search by patient full or partial MRN No
c	Suspected Drug Description	Drug Name	Allow to search by full or partial drug name
d	ADR Description	–	Allow to search by full or partial ADR description exp, Rash, Rashes
Advance Search			
e	Reported Date From	–	Allow to search date before current date
f	Reported Date	–	Allow to search date later than date on Reported Date

	To		From field
g	Reported By	User Login Name	Allow to search by full or partial User Login Name
k	Status	<ul style="list-style-type: none"> <li>- All</li> <li>- Confirmed</li> <li>- Verify</li> <li>- Recorded</li> </ul>	<ul style="list-style-type: none"> <li>- All - Allow to search for records by status Confirmed, Verify and Recorded</li> <li>- Confirmed - Allow to search for records that have been confirmed</li> <li>- Verify - Allow to search for records that are verified but not yet confirmed</li> <li>- Recorded - Allow to search for records that are not yet verified and confirmed</li> </ul>
l	Department	-	Allow to search by full or partial department name in facility

Table 3.1.1



The screenshot shows a web application interface for patient search. At the top, there are navigation icons and a 'Select Registered Patient' button with a red circle '5' around it. Below this is a 'Patient Search' modal window. The modal contains input fields for 'Patient MRN', 'Patient Name', and 'ID No', along with a 'Search' button and a refresh icon. Below the search fields is a pagination bar showing '1 / 4750' and '[ 1 - 10 / 47497 ]'. At the bottom of the modal is a table with columns 'Patient MRN', 'Patient Name', and 'ID No'. The first row of the table has MRN 'htmh0000001' and Patient Name 'B/X XXXX XXX XX XXXXX', with a red circle '4' around the MRN value. The second row has MRN 'htmh0000002' and Patient Name 'SXXX XXXXXXXX XXXXXX'.

Figure 3.1.1-2 Enter/Select search MRN

**STEP 4**

Double-click on selected patient record

**STEP 5**

Click on the  button and system will generate '**ADR Reporting**' screen

**ADVERSE DRUG REACTION**

i
Print X

	Mykad <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	Age 48 Years 08 Months 12 Days	Gender Male	MRN 182822
Address <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	Phone And Email <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	Diagnosis <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	No known Allergies	
Height 173 cm	Weight 65 kg	BMI/BSA 21.7 / 1.77 m <sup>2</sup>	<input type="button" value="Update"/> (Last Updated : 22/08/2017 ) Nationality : Warganegara	

[ADR](#) [Demographic](#)

**1. ADR DETAILS**

Adverse Reaction Description

[WHO Terminology Guide](#)

<p>Race <input style="width: 100%;" type="text" value="Indian"/></p> <p>Please Classify for Skin Reaction <input type="checkbox"/> Skin Reaction</p> <p>Date Of Reaction <input style="width: 100%;" type="text"/></p> <p>Time To Onset Of Reaction <input style="width: 100%;" type="text"/></p> <p>Treatment Of Adverse Reaction <input style="width: 100%;" type="text"/></p> <p>Outcome <input style="width: 100%;" type="text"/></p> <p>Seriousness <input style="width: 100%;" type="text" value="No"/></p>	<p>Additional Information <input style="width: 100%;" type="text" value="No"/></p> <p>Extent of Reaction <input style="width: 100%;" type="text"/></p> <p>Action Taken With Suspected Drug <input style="width: 100%;" type="text"/></p> <p>Reaction Subsided after stopping drug or Reducing Dose <input style="width: 100%;" type="text"/></p> <p>Reaction reappeared after reintroducing drug <input style="width: 100%;" type="text"/></p> <p>Drug Relationship <input style="width: 100%;" type="text"/></p> <p style="font-size: 0.8em; color: #0056b3;">WHO Causality Categories/Naranjo Algorithm</p>
---	---

**2. DRUG DETAILS**

**3. OTHER DETAILS**

Figure 3.1.1-3 ADR Details Information

**STEP 6**

Enter the information in the mandatory field in **ADR Details** section:

- a) **Adverse Reaction Description.**
- b) **Date Of Reaction**
- c) **Time To Onset of Reaction**
- d) **Treatment of Adverse Reaction**
- e) **Outcome**
- f) **Seriousness**
- g) **Extent of Reaction**
- h) **Action Taken With Suspected Drug**
- i) **Reaction Subsided after stopping drug or Reducing Dose**
- j) **Reaction reappeared after reintroducing drug**
- k) **Drug Relationship**

**Note**

- Non mandatory fields below can be entered if applicable
  - a) **Please Classify for Skin Reaction**
  - b) **Additional Information**
- User can refer the guideline from the link [WHO Terminology Guide](#) to enter the information in the field '**Adverse Reaction Description**'
- If "Yes" is selected for '**Additional Information**' from drop down box, another drop down box will appear with the following:
  - Brand Switching
  - Drug Interaction
  - Medication Error
  - Medication Ineffective
  - Others

- **Race** field is retrieved from patient registration.
- If “Yes” is selected for ‘**Seriousness**’ from drop down box, another drop down box will appear with the following:
  - Results In Death (if this is selected, another field will appear and user need to fill in the information of **Date of Birth, Was Autopsy Done, Autopsy Determined Cause of Death and Cause of Death**)
  - Life Threatening
  - Hospitalization/Prolong Hospitalization
  - Disability/Incapacity
  - Birth Defect

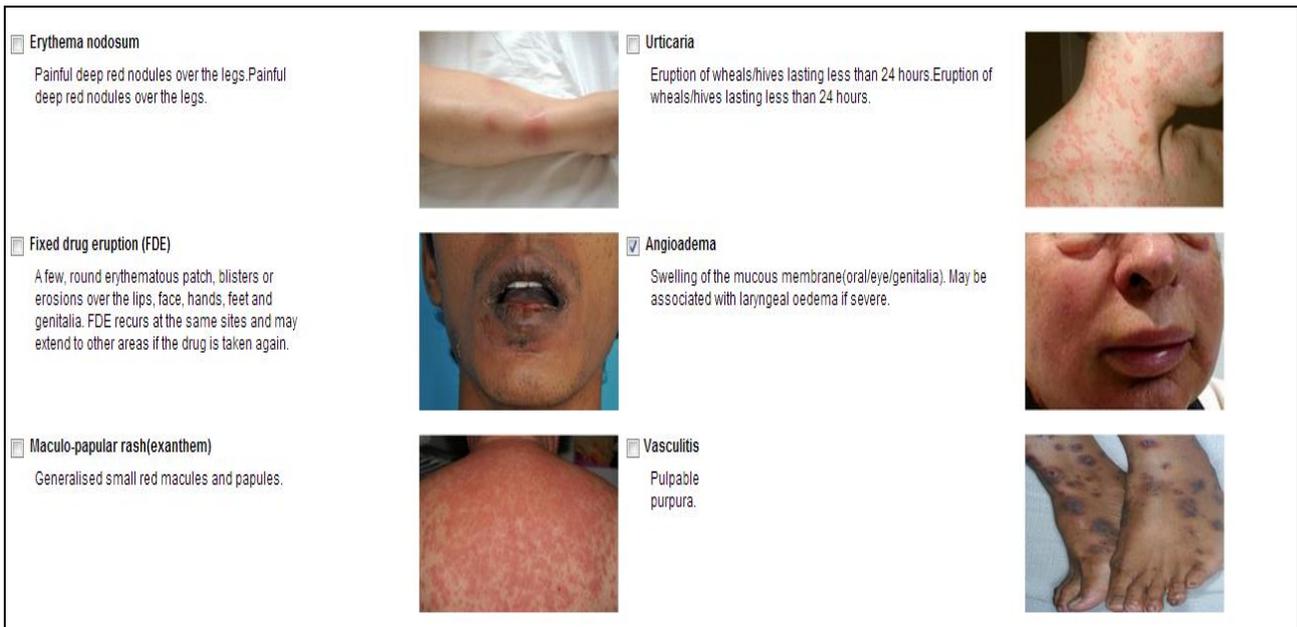


Figure 3.1.1-4 Skin Reaction Screen

**Note**

- If ‘**Please Classify for Skin Reaction**’ checkbox is selected,  [Skin Reaction](#) hyperlink is displayed. Click on the hyperlink, system will display as shown in Figure 3.1.1-4. Select the checkbox and click on the  button to save the record.

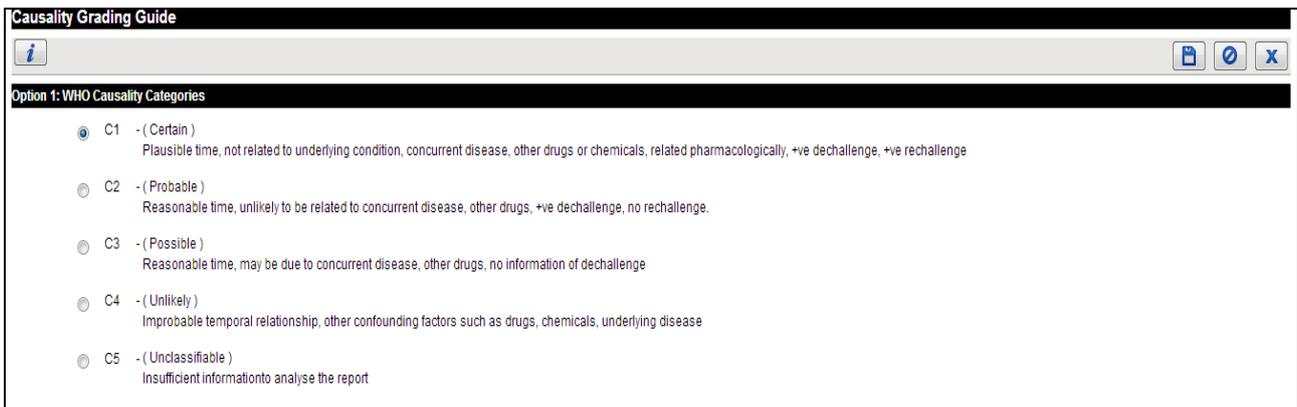
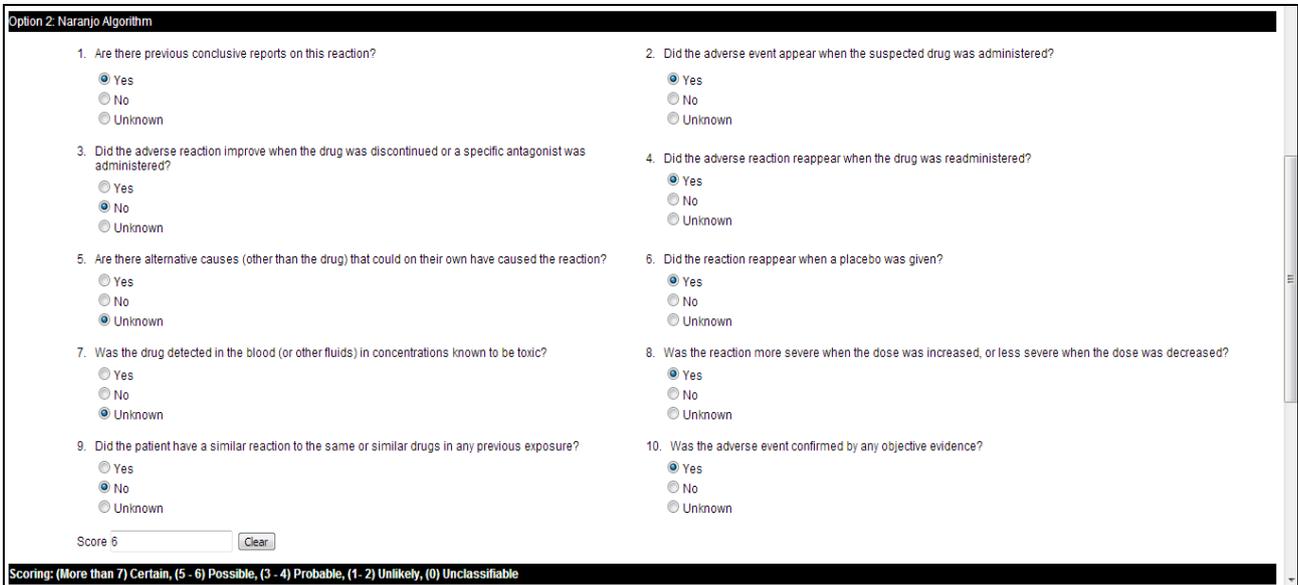


Figure 3.1.1-5 WHO Causality Grading

**Note**

- **Drug Relationship** field is selected from drop down box or by clicking on the [WHO Causality Categories/Naranjo Algorithm](#) hyperlink. System will display the screen as shown in Figure 3.1.1-5 and Figure 3.1.1-6.
- Results selected from WHO Causality Grading will be displayed at the Drug Relationship field.



**Option 2: Naranjo Algorithm**

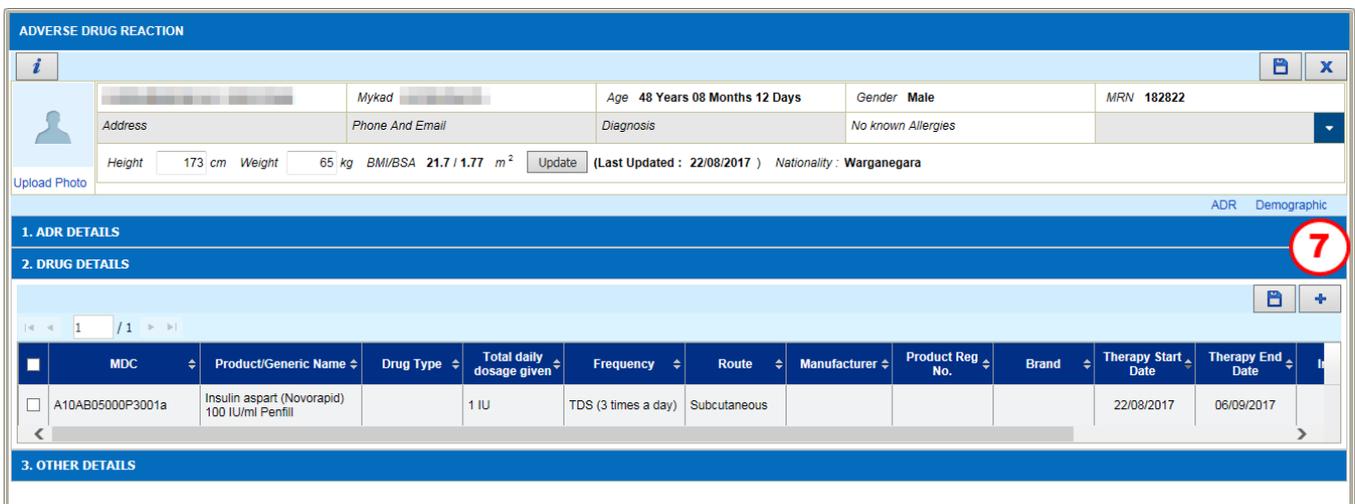
- Are there previous conclusive reports on this reaction?  
 Yes  
 No  
 Unknown
- Did the adverse event appear when the suspected drug was administered?  
 Yes  
 No  
 Unknown
- Did the adverse reaction improve when the drug was discontinued or a specific antagonist was administered?  
 Yes  
 No  
 Unknown
- Did the adverse reaction reappear when the drug was readministered?  
 Yes  
 No  
 Unknown
- Are there alternative causes (other than the drug) that could on their own have caused the reaction?  
 Yes  
 No  
 Unknown
- Did the reaction reappear when a placebo was given?  
 Yes  
 No  
 Unknown
- Was the drug detected in the blood (or other fluids) in concentrations known to be toxic?  
 Yes  
 No  
 Unknown
- Was the reaction more severe when the dose was increased, or less severe when the dose was decreased?  
 Yes  
 No  
 Unknown
- Did the patient have a similar reaction to the same or similar drugs in any previous exposure?  
 Yes  
 No  
 Unknown
- Was the adverse event confirmed by any objective evidence?  
 Yes  
 No  
 Unknown

Score 6

Scoring: (More than 7) Certain, (5 - 6) Possible, (3 - 4) Probable, (1- 2) Unlikely, (0) Unclassifiable

**Figure 3.1.1-6 Naranjo Algorithm**

- Naranjo Algorithm is used as a guideline only. Results from this questionnaire will not be used as the causality grading.
- Select on the radio button and click on the  button to save the record



**ADVERSE DRUG REACTION**

Mykad: [Redacted] Age: 48 Years 08 Months 12 Days Gender: Male MRN: 182822

Address: [Redacted] Phone And Email: [Redacted] Diagnosis: [Redacted] No known Allergies

Height: 173 cm Weight: 65 kg BMI/BSA: 21.7 / 1.77 m<sup>2</sup> Update (Last Updated: 22/08/2017) Nationality: Warganegara

ADR Demographic

**1. ADR DETAILS**

**2. DRUG DETAILS**

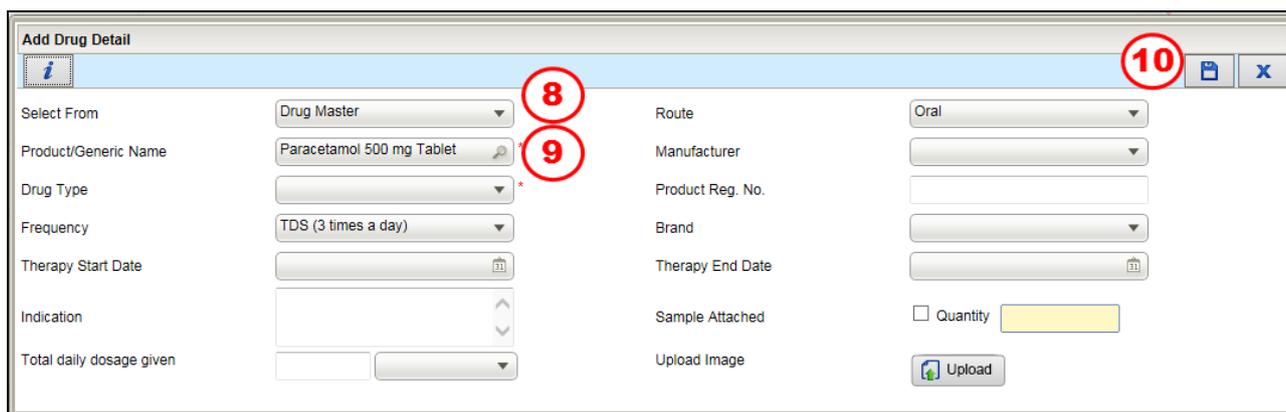
	MDC	Product/Generic Name	Drug Type	Total daily dosage given	Frequency	Route	Manufacturer	Product Reg No.	Brand	Therapy Start Date	Therapy End Date
<input type="checkbox"/>	A10AB05000P3001a	Insulin aspart (Novorapid) 100 IU/ml Penfill		1 IU	TDS (3 times a day)	Subcutaneous				22/08/2017	06/09/2017

**3. OTHER DETAILS**

**Figure 3.1.1-7 Drug Details**

**STEP 7**

Click on the  button as shown in Figure 3.1.1-7 and 'Add Drug Detail' screen will be displayed as shown in Figure 3.1.1-8



**Add Drug Detail**

Select From: Drug Master (8)

Product/Generic Name: Paracetamol 500 mg Tablet (9)

Drug Type: [Dropdown]

Frequency: TDS (3 times a day)

Therapy Start Date: [Date Picker]

Indication: [Text Area]

Total daily dosage given: [Text Field]

Route: Oral

Manufacturer: [Dropdown]

Product Reg. No.: [Text Field]

Brand: [Dropdown]

Therapy End Date: [Date Picker]

Sample Attached:  Quantity: [Text Field]

Upload Image: [Upload Button]

10

**Figure 3.1.1-8 Add Drug Details**

**STEP 8**

Select and enter from Select From drop down box:

- Drug Master
- Others

**Note**

- *Drug Master- The searching of drugs will be from the Drug Master list.*
- *Others – Free text field provided. User can record drugs which are not setup in the drug configuration file. e.g.: traditional herbs.*

**STEP 9**

Enter **Product/Generic Name**. The selection will be based on the selected criteria in the **Select From** field

**Note**

- *Enter the other optional field if applicable*
  - a) **Drug Type**
  - b) **Frequency**
  - c) **Therapy Start Date**
  - d) **Indication**
  - e) **Total daily dosage given**
  - f) **Route**
  - g) **Manufacturer**
  - h) **Product Reg No**
  - i) **Brand**
  - j) **Sample Attached**
  - k) **Upload Image**
- **Select From** field = Drug Master, **Frequency** and **Route** field is displayed as drop down box.
- **Select From** field = Other, **Frequency** and **Route** field is displayed as free text fields.
- Select the checkbox **Sample Attached** and enter the quantity if sample is available from patient.
- Click on the **Upload** button to upload the image of the drug if available.

**STEP 10**

Click on the  button to save the record

**ADVERSE DRUG REACTION**

	Mykad <span style="background-color: #ccc; padding: 2px;">[REDACTED]</span>	Age 48 Years 08 Months 12 Days	Gender Male	MRN 182822
Address	Phone And Email	Diagnosis	No known Allergies	
Height 173 cm	Weight 65 kg	BMI/BSA 21.7 / 1.77 m <sup>2</sup>	Update (Last Updated : 22/08/2017 ) Nationality : Warganegara	

Upload Photo
ADR Demographic

**1. ADR DETAILS**

**2. DRUG DETAILS**

**3. OTHER DETAILS**

Relevant Medical History

Relevant investigation/Lab Data   
 Remarks   
 Record Verified   
 Verified By   
 Click here to Confirm the record

11

**Reporter**  
 Name   
 Designation   
 Department   
 Contact Number   
 Mobile Number   
 Email   
 Address   
 Date Of Report

Figure 3.1.1-9 Other Details

**STEP 11**

Enter the information for below if applicable:

- a) **Relevant investigation Lab Data**
- b) **Relevant Medical History**
- c) **Remarks**
- d) **Mobile Number**
- e) **Date Of Report**

**Note**

Fields of Reporter section that will be extracted automatically from the user account are:

- a) **Name**
- b) **Designation**
- c) **Department**
- d) **Contact Number**
- e) **Email**
- f) **Address**

Record Verified
12

Verified By

Click here to Confirm the record
13

Figure 3.1.1-10 Record Verified

### STEP 12

Select the **Record Verified** checkbox to verify the record. Once the checkbox is selected, adding and editing of data are not allowed

### STEP 13

Click on the **Click here to Confirm the record** checkbox then print the form to send the form to NPCB

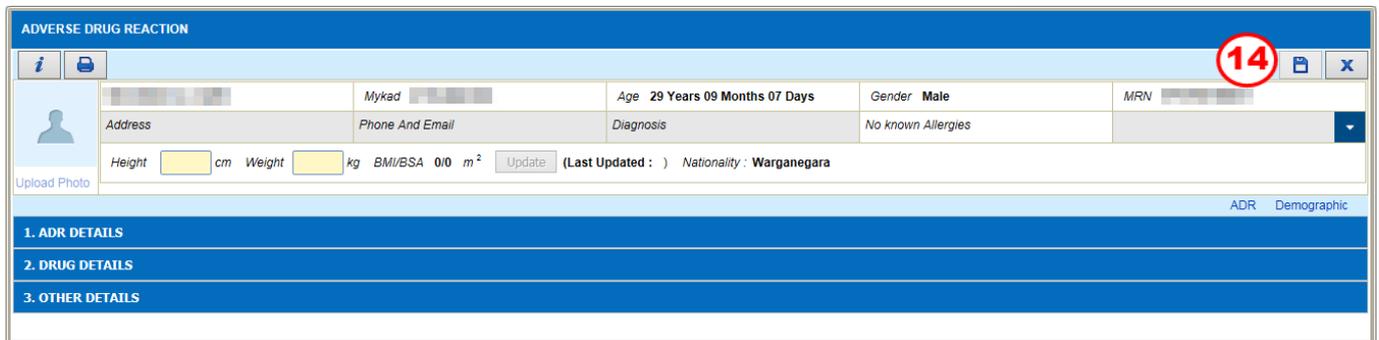


Figure 3.1.1-11 Save Record

### STEP 14

Click on the  button to save the record

#### Note

- Click on the  button to print the ADR Report as Figure 3.1.1-12
- Click on the  button to close the transaction



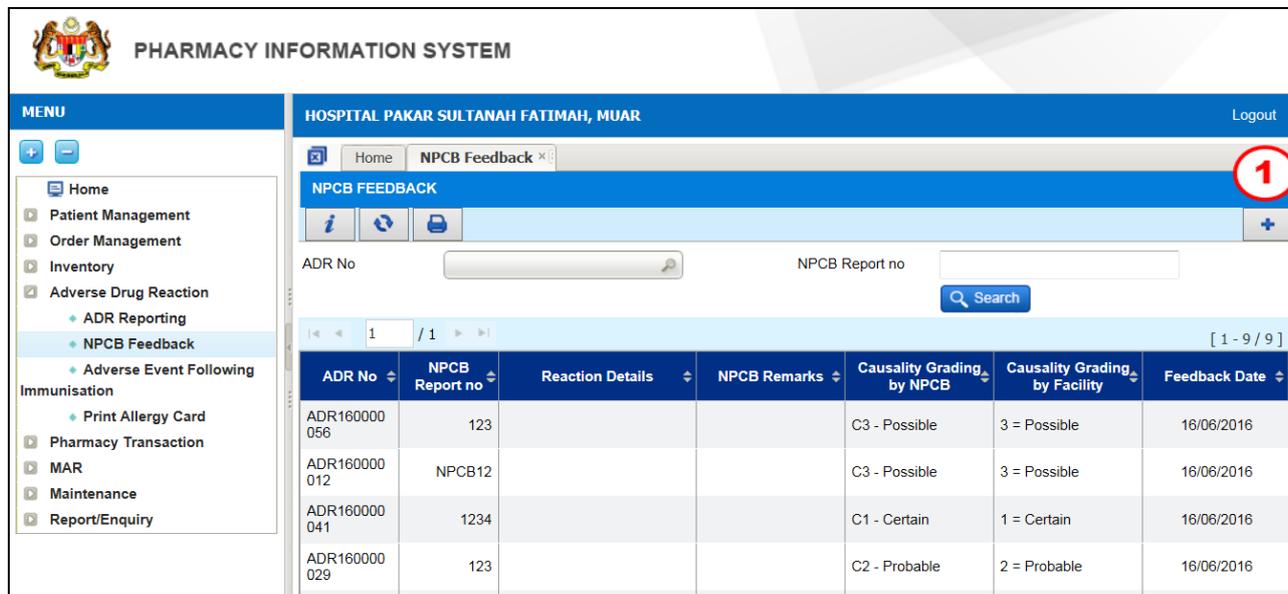
REPORT ON SUSPECTED ADVERSE DRUG REACTION					
NATIONAL CENTRE FOR ADVERSE DRUG REACTION MONITORING					
<i>www.bpfk.gov.my</i>					
(Please report all suspected drug reaction including those for vaccines and traditional medicines. Do not hesitate to report if some details are not known. Identities of Reporter, Patient and Institution will remain Confidential.)					
REPORT No ..... (for office use only)					
PATIENT INFORMATION					
R/N or Initials	Age	Sex	Wt	Ethnic Group	Institution
HPSF00186861	29 Years 09 Months 07 Days	Male		Malay	Hospital Pakar Sultanah Fatimah, Muar
ADVERSE REACTION DESCRIPTION					
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vel odio at ipsum pretium condimentum eget at quam. Fusce venenatis porttitor ligula a lobortis. Nulla fells lectus, ullamcorper ut leo eu, vestibulum ultrices lacus. Nulla ac turpis mauris. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Interdum et malesuada fames ac ante ipsum primis in faucibus. In fringilla nibh sed dictum elementum. Sed sit amet est finibus, tristique erat ut, dapibus augue. Nullam convallis pretium al					
Additional Information : Drug Interaction					
Skin Reaction :					
Please specify Part of Body Affected :					
Time to onset of reaction :		Date of reaction	17/08/2017	Date end of reaction :	17/08/2017
Reaction subsided after stopping drug/reducing dose :      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown <input type="checkbox"/>					
Reaction reappeared after reintroducing drug :      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not applicable <input type="checkbox"/>					
Extent of reaction :      Mild <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe <input type="checkbox"/>					
Treatment of adverse Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis vel odio at ipsum pretium condimentum eget at quam. Fusce venenatis porttitor ligula a lobortis. Nulla fells lectus, ullamcorper ut leo eu, vestibulum ultrices lacus. Nulla ac turpis mauris. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Interdum et malesuada fames ac ante ipsum primis in faucibus. In fringilla nibh sed dictum elementum. Sed sit amet est finibus, tristique erat ut, dapibus augue. Nullam convallis pretium al					
Outcome :    Recovered <input type="checkbox"/> Recovering <input type="checkbox"/> Recovered With Sequelae <input checked="" type="checkbox"/> Not Recovered <input type="checkbox"/> Unknown <input type="checkbox"/>					
Seriousness:    Life Threatening <input type="checkbox"/> Hospitalization / Prolong Hospitalization <input type="checkbox"/> Disability / Incapacity <input type="checkbox"/> Birth Defect <input type="checkbox"/> Results in Death <input type="checkbox"/> - Date of death: _____					
Drug Reaction Relationship    Certain <input checked="" type="checkbox"/> Probable <input type="checkbox"/> Possible <input type="checkbox"/> Unlikely <input type="checkbox"/> Unclassifiable <input type="checkbox"/>					
Suspected Drug :					

Figure 3.1.1-12 ADR Report

## 3.2 NPCB Feedback

### 3.2.1 Transcribe NPCB Feedback

The function of this menu is to record any feedback from NPCB into the system



**PHARMACY INFORMATION SYSTEM**

HOSPITAL PAKAR SULTANAH FATIMAH, MUAR Logout

Home NPCB Feedback 1

**NPCB FEEDBACK**

ADR No  NPCB Report no  Search

1 / 1 [ 1 - 9 / 9 ]

ADR No	NPCB Report no	Reaction Details	NPCB Remarks	Causality Grading by NPCB	Causality Grading by Facility	Feedback Date
ADR160000056	123			C3 - Possible	3 = Possible	16/06/2016
ADR160000012	NPCB12			C3 - Possible	3 = Possible	16/06/2016
ADR160000041	1234			C1 - Certain	1 = Certain	16/06/2016
ADR160000029	123			C2 - Probable	2 = Probable	16/06/2016

Figure 3.2.1-1 NPCB Feedback Listing Page

#### Note

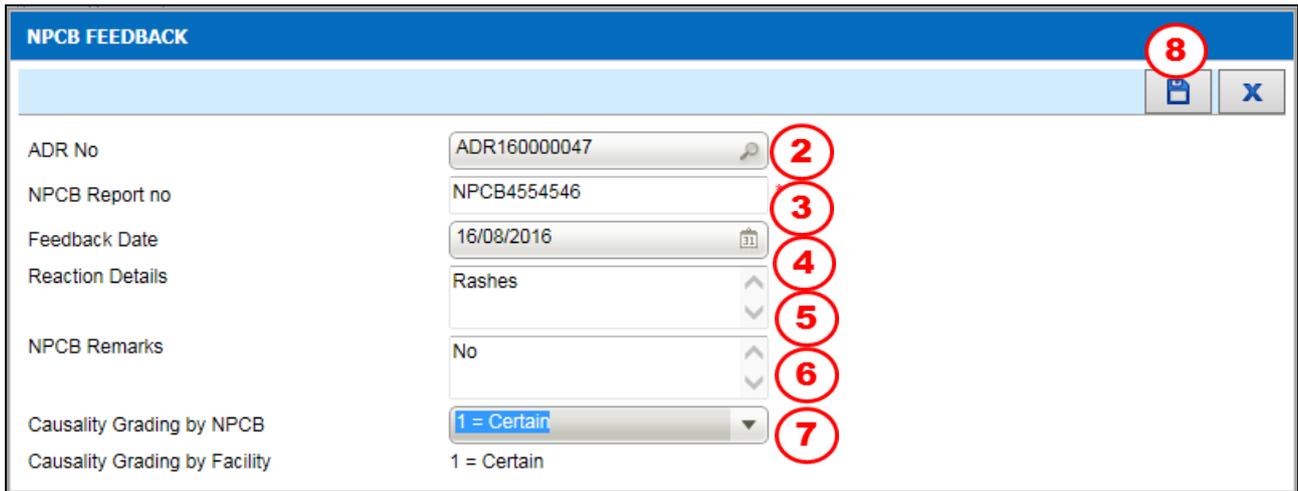
Search for NPCB Feedback record by below criteria:

No	Field	Description	Remark
a	ADR No	–	Allow to search record by full or partial ADR No
b	NPCB Report No	–	Allow to search record by full or partial NPCB Report No

Table 3.2.1

#### STEP 1

Click at the  button to create new '**NPCB Feedback**' report



**NPCB FEEDBACK**

ADR No: ADR160000047 (2)

NPCB Report no: NPCB4554546 (3)

Feedback Date: 16/08/2016 (4)

Reaction Details: Rashes (5)

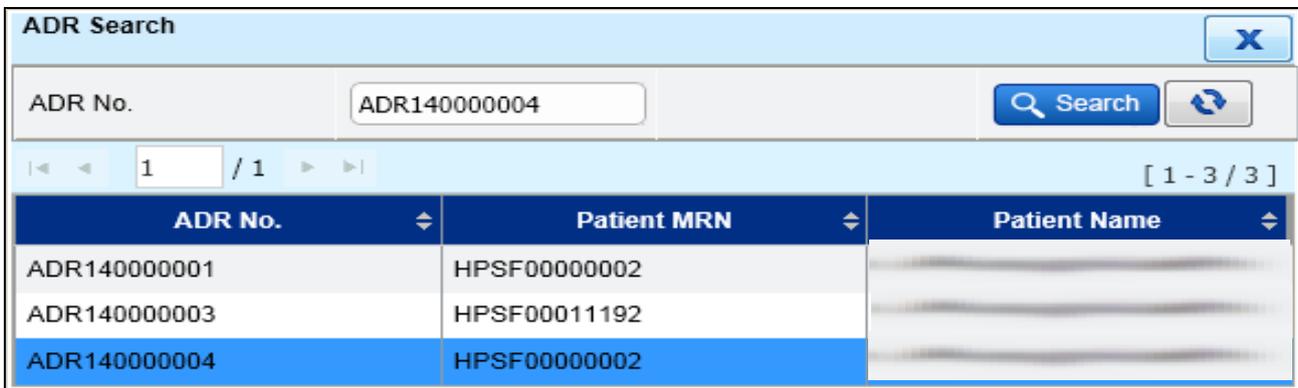
NPCB Remarks: No (6)

Causality Grading by NPCB: 1 = Certain (7)

Causality Grading by Facility: 1 = Certain

8

Figure 3.2.1-2 NPCB Feedback



**ADR Search**

ADR No. ADR140000004 Search

1 / 1 [ 1 - 3 / 3 ]

ADR No.	Patient MRN	Patient Name
ADR140000001	HPSF00000002	
ADR140000003	HPSF00011192	
ADR140000004	HPSF00000002	

Figure 3.2.1-3 ADR Search

**STEP 2**

Search ADR no from the list by clicking the icon  and system will display as shown in Figure 3.2.1-3 and generate the data for '**Causality Grading by Facility**' field

**STEP 3**

Enter **NPCB Report no**

**STEP 4**

Enter **Feedback Date** by choose from calendar

**STEP 5**

Enter **Reaction Details**

**STEP 6**

Enter **Pharmacist remarks**

**STEP 7**

Enter **Causality Grading** information

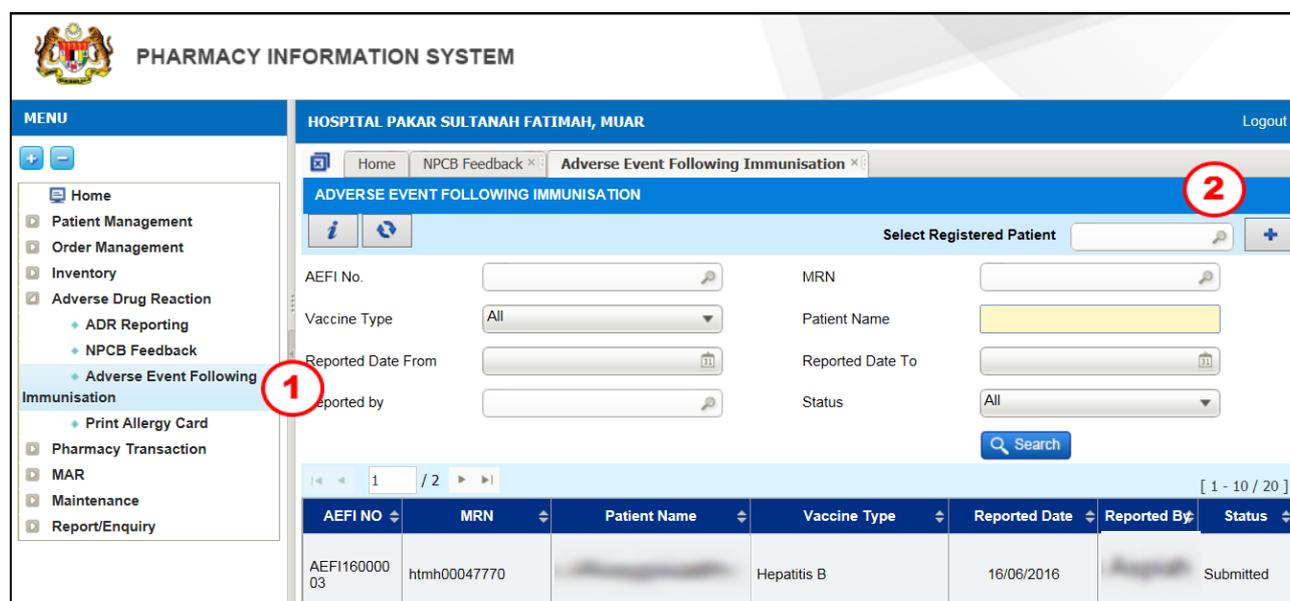
**STEP 8**

Click  to save the record then click  to close the window

### 3.3 Adverse Event Following Immunization

#### 3.3.1 Transcribe Adverse Event Following Immunisation

The function of this menu is to record any vaccine reaction of the patient



**PHARMACY INFORMATION SYSTEM**

HOSPITAL PAKAR SULTANAH FATIMAH, MUAR

Home NPCB Feedback Adverse Event Following Immunisation

**ADVERSE EVENT FOLLOWING IMMUNISATION**

Select Registered Patient

AEFI No. MRN

Vaccine Type All Patient Name

Reported Date From Reported Date To

Reported by Status

Search

[ 1 - 10 / 20 ]

AEFI NO	MRN	Patient Name	Vaccine Type	Reported Date	Reported By	Status
AEFI16000003	htmh00047770		Hepatitis B	16/06/2016		Submitted

Figure 3.3.1-1 Adverse Event Following Immunisation Listing Page

**Note**

Search for AEFI record by below criteria:-

No	Field	Description	Remark
a	AEFI No	-	Allow to search record by full or partial AEFI No
b	MRN	Patient MRN	Allow to search patient by full or partial MRN No
c	Vaccine Type	<ul style="list-style-type: none"> <li>All</li> <li>Diphtheria/Tetanus/Pertussis</li> <li>Diphtheria/Tetanus/Pertussis/Poliomyelitis</li> <li>Hepatitis B</li> <li>Human Papillomavirus (HPV)</li> <li>Lain-lain</li> <li>MMR</li> </ul>	<ul style="list-style-type: none"> <li>All – Allow to search from criteria Diphtheria/Tetanus/Pertussis until MMR</li> <li>Diphtheria/Tetanus/Pertussis – Allow to search Diphtheria/Tetanus/Pertussis vaccine type</li> <li>Diphtheria/Tetanus/Pertussis/Poliomyelitis-Allow to search Diphtheria/Tetanus/ Pertussis/ Poliomyelitis vaccine type</li> <li>Hepatitis B – Allow to search Hepatitis B vaccine type</li> <li>Human Papillomavirus (HPV) - Allow to search Human Papillomavirus (HPV) vaccine type</li> <li>Lain-lain – Allow to search vaccine which not classified</li> <li>MMR – Allow to search MMR vaccine type</li> </ul>
d	Reported Date From	-	Allow to search date before current date
e	Reported Date To	-	Allow to search date later than date on Reported Date From field
f	Reported By	User Login Name	Allow to search by full or partial User Login Name
g	Status	<ul style="list-style-type: none"> <li>All</li> <li>Recorded</li> <li>Submitted</li> </ul>	<ul style="list-style-type: none"> <li>All - Allow to search record by status Recorded and Submitted</li> <li>Recorded - Allow to search for records that are saved but not yet confirmed</li> <li>Submitted - Allow to search for records that are saved and confirmed</li> </ul>

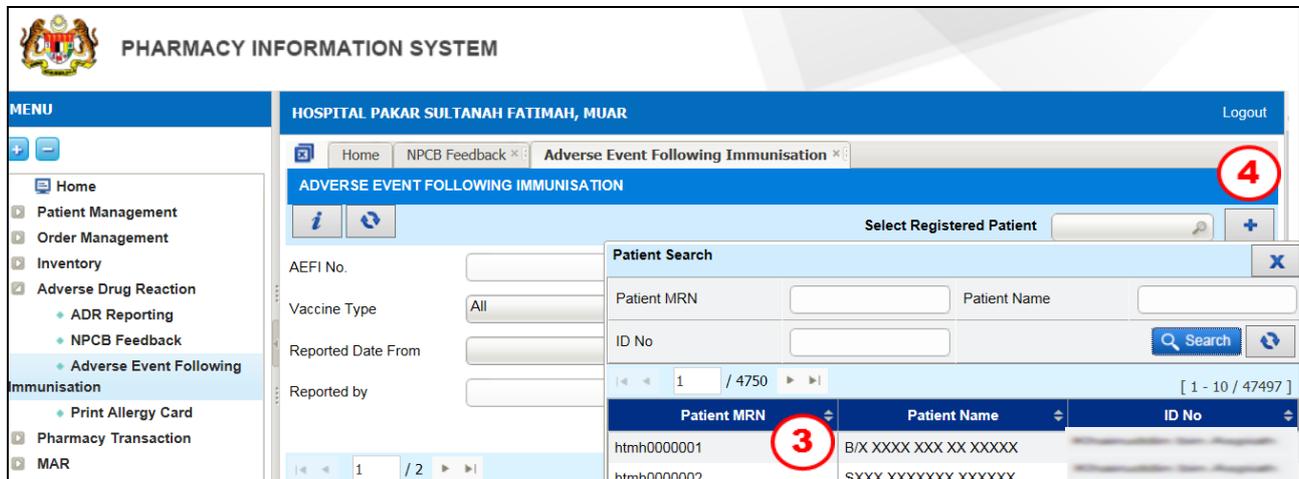
Table 3.3.1

**STEP 1**

Select 'Adverse Drug Reaction' menu follow by ' Adverse Event Following Immunisation' sub menu

**STEP 2**

Click on the  button to create new patient record



**PHARMACY INFORMATION SYSTEM**

HOSPITAL PAKAR SULTANAH FATIMAH, MUAR Logout

Home NPCB Feedback Adverse Event Following Immunisation

**ADVERSE EVENT FOLLOWING IMMUNISATION** 4

Select Registered Patient

AEFI No.

Vaccine Type

Reported Date From

Reported by

**Patient Search**

Patient MRN  Patient Name

ID No

[ 1 - 10 / 47497 ]

Patient MRN	Patient Name	ID No
htmh0000001	B/X XXXX XXX XX XXXXX	
htmh0000002	SXXX XXXXXXXX XXXXXX	

3

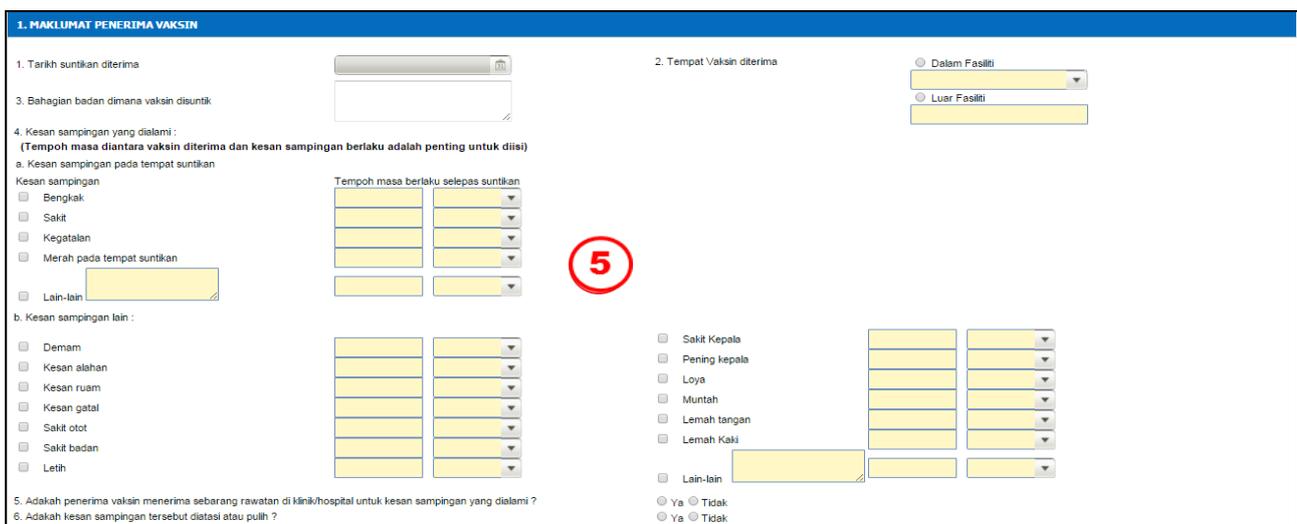
**Figure 3.3.1-2 Select Registered Patient**

**STEP 3**

Select patient record

**STEP 4**

Click on the  button to begin recording Adverse Event Following Immunisation for the selected MRN



**1. MAKLUMAT PENERIMA VAKSIN**

1. Tarikh suntikan diterima

2. Tempat Vaksin diterima  Dalam Fasiliti  Luar Fasiliti

3. Bahagian badan dimana vaksin disuntik

4. Kesan sampingan yang dialami :  
(Tempoh masa diantara vaksin diterima dan kesan sampingan berlaku adalah penting untuk diisi)

a. Kesan sampingan pada tempat suntikan

Kesan sampingan

Bengkak

Sakit

Kegatalan

Merah pada tempat suntikan

Lain-lain

Tempoh masa berlaku selepas suntikan

b. Kesan sampingan lain :

Demam

Kesan alahan

Kesan ruam

Kesan gatal

Sakit otot

Sakit badan

Letih

Sakit Kepala

Pening kepala

Loya

Muntah

Lemah tangan

Lemah Kaki

Lain-lain

Ya  Tidak

Ya  Tidak

5

5. Adakah penerima vaksin menerima sebarang rawatan di klinik/hospital untuk kesan sampingan yang dialami ?

6. Adakah kesan sampingan tersebut diatasi atau pulh ?

**Figure 3.3.1-3 Maklumat Penerima Vaksin**

### STEP 5

Enter the information in Maklumat Penerima Vaksin section based on 6 main question if applicable:

1. Tarikh suntikan diterima
2. Tempat Vaksin diterima
3. Bahagian badan dimana vaksin disuntik
4. Kesan sampingan yang dialami
5. Adakah penerima vaksin menerima sebarang rawatan di klinik/hospital untuk kesan sampingan yang dialami
6. Adakah kesan sampingan tersebut diatasi atau pulih

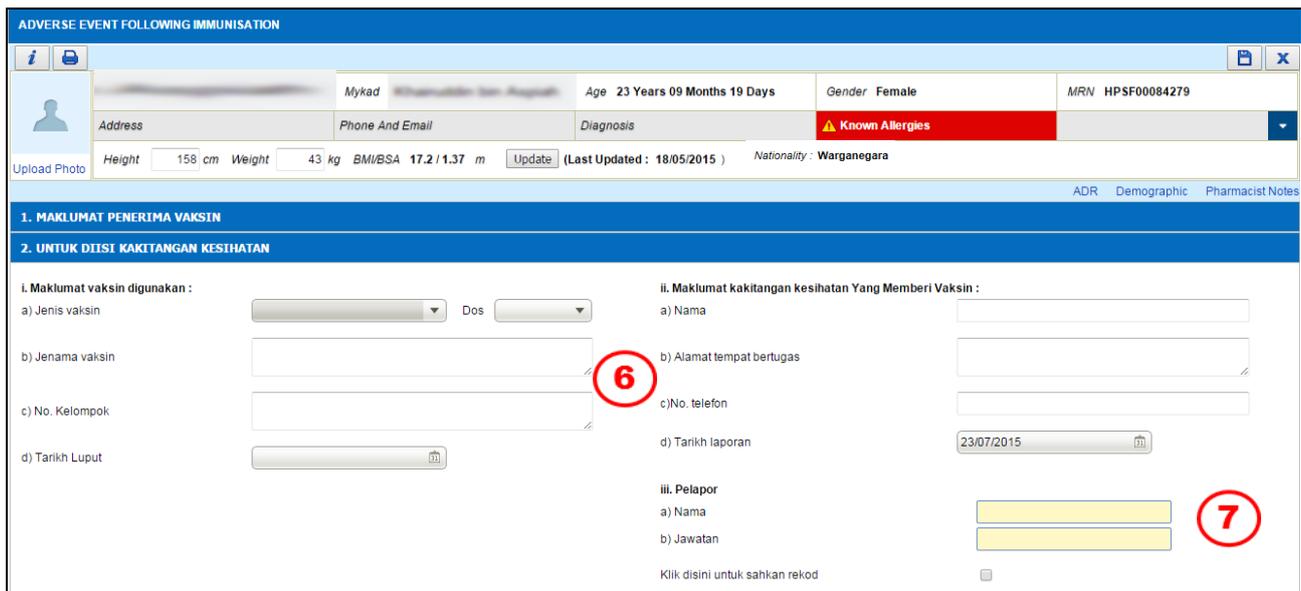


Figure 3.3.1-4 Untuk Diisi Kakitangan Kesihatan

### STEP 6

Enter the information in Diisi Kakitangan Kesihatan section based on 2 sub sections below:

- i. Maklumat vaksin digunakan
  - a) Jenis vaksin
  - b) Jenama vaksin
  - c) No Kelompok
  - d) Tarikh Luput
- ii. Maklumat kakitangan kesihatan Yang Memberi Vaksin
  - a) Nama
  - b) Alamat tempat bertugas
  - c) No telefon
  - d) Tarikh Laporan

### STEP 7

Click on the checkbox 'Click here to confirm the record' to complete the report

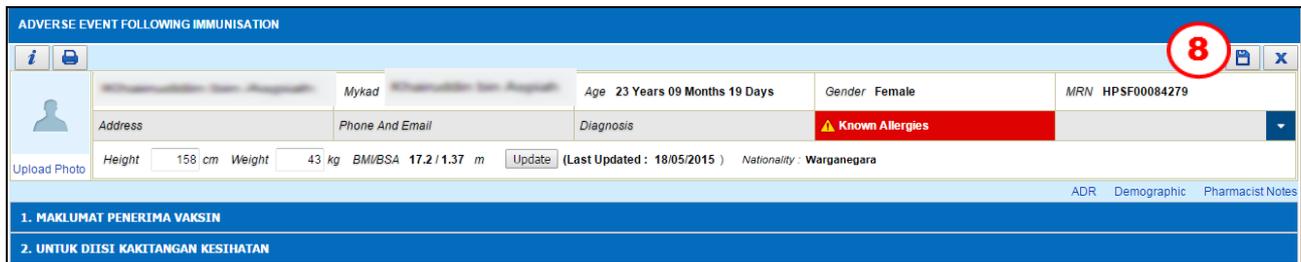


Figure 3.3.1-5 Save Record

### STEP 8

Click on the  button to save all the information

#### **Note**

- Click on the  button to print the Report as Figure 3.3.1-6
- Click on the  button to close the transaction



**BORANG PEMANTAUAN KESAN SAMPINGAN RINGAN SELEPAS PELALIAN**  
(Untuk Diisi Oleh Penerima Vaksin/Waris)

Pindaan-3

Pada kebiasaannya suntikan vaksin tidak menyebabkan kesan sampingan. Walau bagaimana pun sekiranya anda atau orang yang berada di bawah jagaan anda mengalami kesan sampingan selepas mendapat suntikan pelalian sila isi borang ini dan kembalikan kepada kakitangan institusi kesihatan tempat vaksin diterima.

Nama klinik/sekolah/lain-lain tempat dimana vaksin: **Hospital Pakar Sultanah Fatimah, Muar**

1. Maklumat Penerima Vaksin :-

a) Nama : \_\_\_\_\_

b) Umur : 31 Years 09 Months 15 Days e) No. Tel : \_\_\_\_\_

c) Jantina :  Lelaki  Perempuan f) Bangsa:  Melayu  Cina  India Lain-lain, Nyatakan : \_\_\_\_\_

d) Alamat rumah : Hospital Pakar Sultanah Fatimah, Muar

2. Tarikh suntikan diterima : 03/08/2017 3. Bahagian badan dimana vaksin disuntik : arm

4. Kesan Sampingan yang dialami :-

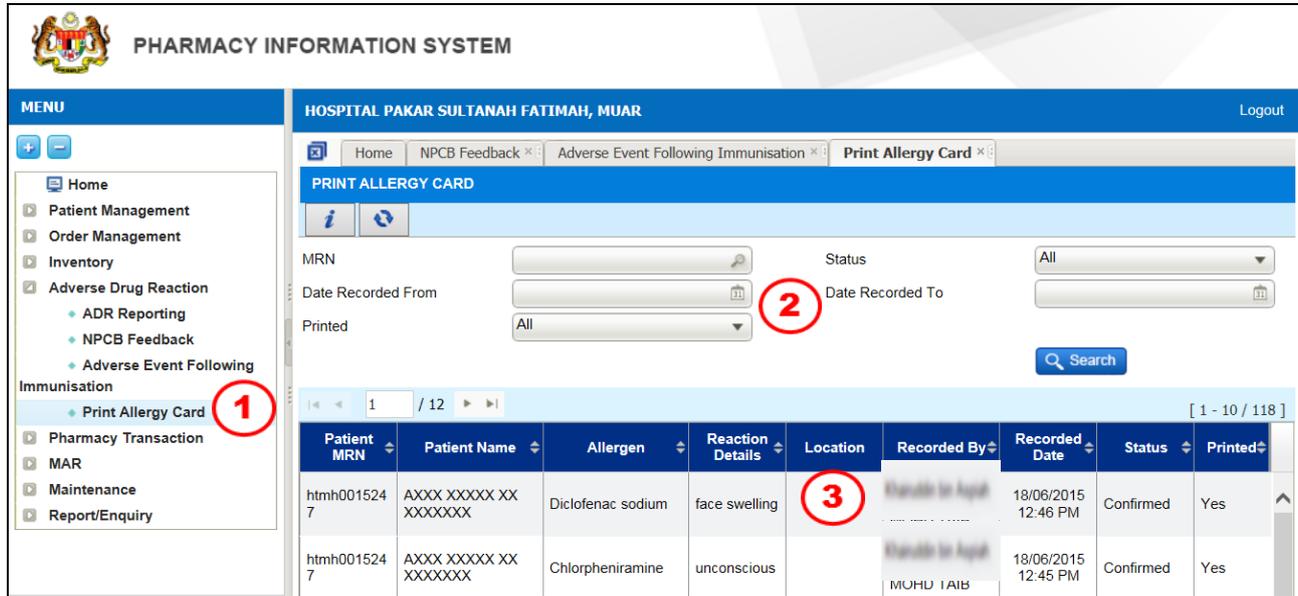
*(Tempoh masa diantara vaksin diterima dan kesan sampingan berlaku adalah penting untuk diisi)*

Kesan Sampingan	Tandakan	✓ Jika berkaitan	Tempoh masa diantara vaksin diterima dan kesan sampingan berlaku (*potong yang tidak berkaitan)
<b>a. Kesan pada tempat suntikan :</b>			
i) Bengkak		<input checked="" type="checkbox"/>	10 Minit
ii) Sakit		<input type="checkbox"/>	_____
iii) Kegatalan		<input type="checkbox"/>	_____
iv) Merah pada tempat suntikan		<input type="checkbox"/>	_____
v) Lain-lain (nyatakan)		<input type="checkbox"/>	_____
b. Demam		<input checked="" type="checkbox"/>	10 Minit
c. Kesan alahan/ruam/gatal*		<input type="checkbox"/>	- / - / -

Figure 3.3.1-6 Report

### 3.4 Print Allergy Card

The function of this menu is to print an allergy card for the patient



**PHARMACY INFORMATION SYSTEM**

HOSPITAL PAKAR SULTANAH FATIMAH, MUAR

Home NPCB Feedback Adverse Event Following Immunisation **Print Allergy Card**

**PRINT ALLERGY CARD**

MRN: [Input Field] Status: All

Date Recorded From: [Input Field] Date Recorded To: [Input Field]

Printed: All

[Search]

Patient MRN	Patient Name	Allergen	Reaction Details	Location	Recorded By	Recorded Date	Status	Printed
hthm0015247	AXXX XXXXX XX XXXXXXX	Diclofenac sodium	face swelling	[Red Circle 3]	[Redacted]	18/06/2015 12:46 PM	Confirmed	Yes
hthm0015247	AXXX XXXXX XX XXXXXXX	Chlorpheniramine	unconscious	[Redacted]	MIUHD I AIB	18/06/2015 12:45 PM	Confirmed	Yes

Figure 3.4-1 Print Allergy Card Listing Page

**STEP 1**

Select on 'Adverse Drug Reaction' menu followed by 'Print Allergy Card' sub menu

**STEP 2**

Search for the patient by below criteria:

No	Field	Description	Remark
a	MRN	Patient MRN	Allow to search patient by full or partial MRN No
b	Status	<ul style="list-style-type: none"> <li>All</li> <li>Confirmed</li> <li>Pending for Confirmation</li> <li>To Print</li> </ul>	<ul style="list-style-type: none"> <li>All - Allow to search records by status Confirmed, Pending for Confirmation and To Print</li> <li>Confirmed - Allow to search records of patients with confirmed drug allergy</li> <li>Pending For Confirmation - Allow to search records of patient with drug allergy that is pending confirmation</li> <li>To Print - Allow to search records of patient with confirmed drug allergy where allergy cars is not printed yet</li> </ul>
c	Date Occurance From	-	Allow to search date before current date
d	Date Occurance To	-	Allow to search date later than date on Date Occurance From field

Table 3.4-1

Click on the  button and the system will display all related records

**STEP 3**

Double-click on record then select the checkbox as shown in Figure 3.4-1

**Allergy Card Printing**

Print In Malay | Print In English

Mykad: [Redacted] Age: 58 Years 10 Months 23 Days Gender: Male MRN: HPSF00016514

Address: [Redacted] Phone And Email: [Redacted] Diagnosis: [Redacted] **Known Allergies**

Height: 158 cm Weight: 43 kg BMI/BSA: 17.2 / 1.37 m<sup>2</sup> Update (Last Updated: 18/05/2015)

Type	Allergen	Reaction Details	Severity	Date/Time Occurance	Recorded By	Date/Time Recorded	Status	Printed	Date/Time Printed	Printed By
<input type="checkbox"/>	Paracetamol 500 mg Tablet	swollen eyes		22/05/2014 12:00 AM	Dr. Samuel Goh Jing Em	22/05/2014 03:34 PM	Confirmed	Yes	08/05/2015 06:38 PM	[Redacted]

Figure 3.4-2 Selected Patient

Select to print the card in Malay or English by clicking on one of the below button:

Print In Malay | Print In English

System will display as shown in Figure 3.4-3.

**Note**

- Condition to print Allergy Card is:
  - Allergy record with status Confirmed and Suspected
  - Allergen Type = Drug

No. Siri : DAC-11-01060015-00016514 <b>Kad Alahan Ubat</b> Nama : SALAM BIN ABU BAKAR No. K/P : 560831016093		<p><b>Peringatan</b></p> <p>Sila bawa dan tunjukkan kad ini semasa mendapatkan rawatan atau bekalan ubat-ubatan</p> <p>Pemberitahuan: Kad ini adalah untuk maklumat dan panduan sahaja, Kementerian Kesihatan Malaysia tidak bertanggungjawab atas sebarang penyalahgunaan yang melibatkan kad ini.</p> <p>Tarikh kad dikeluarkan: 23/07/2015 05:24</p> <hr/> <p>Dikeluarkan Oleh: Hospital Pakar Sultanah Fatimah, Muar Kementerian Kesihatan Malaysia</p>				
<table border="1"> <thead> <tr> <th>Nama Ubat</th> <th>Reaksi Alahan</th> </tr> </thead> <tbody> <tr> <td>1. Paracetamol</td> <td>swollen eyes</td> </tr> </tbody> </table>	Nama Ubat	Reaksi Alahan	1. Paracetamol	swollen eyes		
Nama Ubat	Reaksi Alahan					
1. Paracetamol	swollen eyes					

Figure 3.4-3 Allergy Card Sample

## 4.0 Acronyms

Abbreviation	Definition
PhIS	Pharmacy Information System
CPS	Clinical Pharmacy System
MOH	Ministry Of Health
MRN	Medical Record Number
ADR & DAC	Adverse Drug Reaction and Drug Allergic Card

## 5.0 Links to Clinical Modules

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