# TOWARDS ZERO PERCENTAGE OF UNCOLLECTED DRUG ALLERGY CARD (DAC) IN HOSPITAL TENGKU AMPUAN AFZAN (HTAA), KUANTAN



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#### INTRODUCTION

The aim of implementation of Drug Allergy Card (DAC) in Malaysia is to enable healthcare practitioners to access patients' drug allergy histories. In HTAA, there were 36.8% (n=66) of uncollected DACs from January to September 2023 and there were two potentially fatal cases reported in HTAA medication error registry 2020-2022 due to readministration of known allergenic medications. Thus, this project aims to identify factors contributing to uncollected DACs, propose remedial actions, and work towards achieving zero percentage of uncollected DACs.





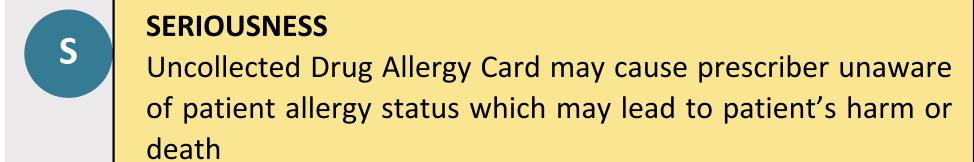
## SELECTION OF OPPORTUNITIES FOR **IMPROVEMENT**

#### 1.1 PROBLEM PRIORITIZATION

	No	Problems	S	М	A	R	T	Total
	1	High percentage of uncollected Drug Allergy Card	15	15	15	15	12	72
	2	High numbers of Import Permit for unregistered medications (UKK) applied and approved but not used	12	15	15	9	9	60
	3	No standardized inquiry form causing incomplete information	9	12	15	15	15	66
	4	High percentage of unclaimed Locker4U drug packages	12	15	15	12	12	66
	5	High percentage of doctors not registered in PhIS system	9	15	15	9	9	57

Group members: 5 Weightage: 1 - low, 2 - medium, 3 - high

#### 1.2 RATIONALE FOR SELECTION



**MEASURABLE** Data obtained from Drug Allergy Registry

#### **APPROPRIATENESS** To prevent patient receiving same medication that causing

allergy reaction **REMEDIABLE** 

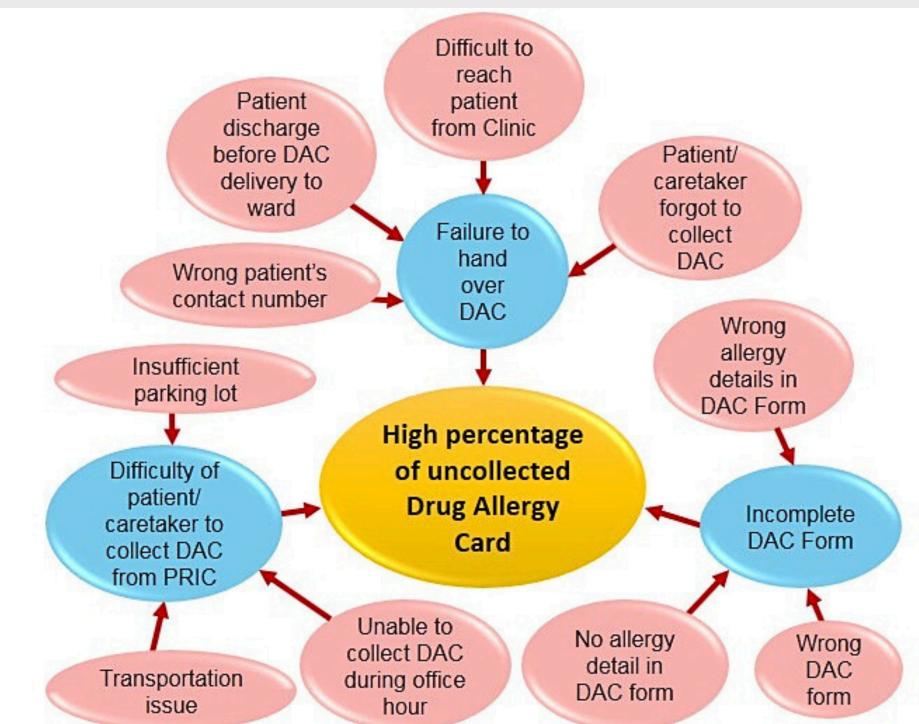
Remedial action can be done by efficient flow of receiving DAC **TIMELINES**S

QA study can be completed within 12 months

### 1.3 PROBLEM STATEMENT

Uncollected DAC are causing prescriber unaware of patient's allergy status which may lead to medication error, patient's harm or even death. Uncollected drug allergy card may be due to incomplete DAC Application Form, difficulty of patient/caretaker to collect DAC from PRIC and failure to handover DAC. We hope to identify factors contributing to uncollected DAC by patients and propose remedial action. This QA study can be completed within 12 months.

### 1.4 PROBLEM ANALYSIS CHART



## 1.5 AIM OF STUDY

## **GENERAL OBJECTIVE**

To reduce percentage of uncollected DAC

### **SPECIFIC OBJECTIVES**

- 1. To measure percentage of uncollected DAC
- 2. To investigate contributing factors which lead to high numbers of uncollected DAC
- 3. To carry out appropriate remedial measures based on contributing factors
- 4. To evaluate the effectiveness of remedial measures

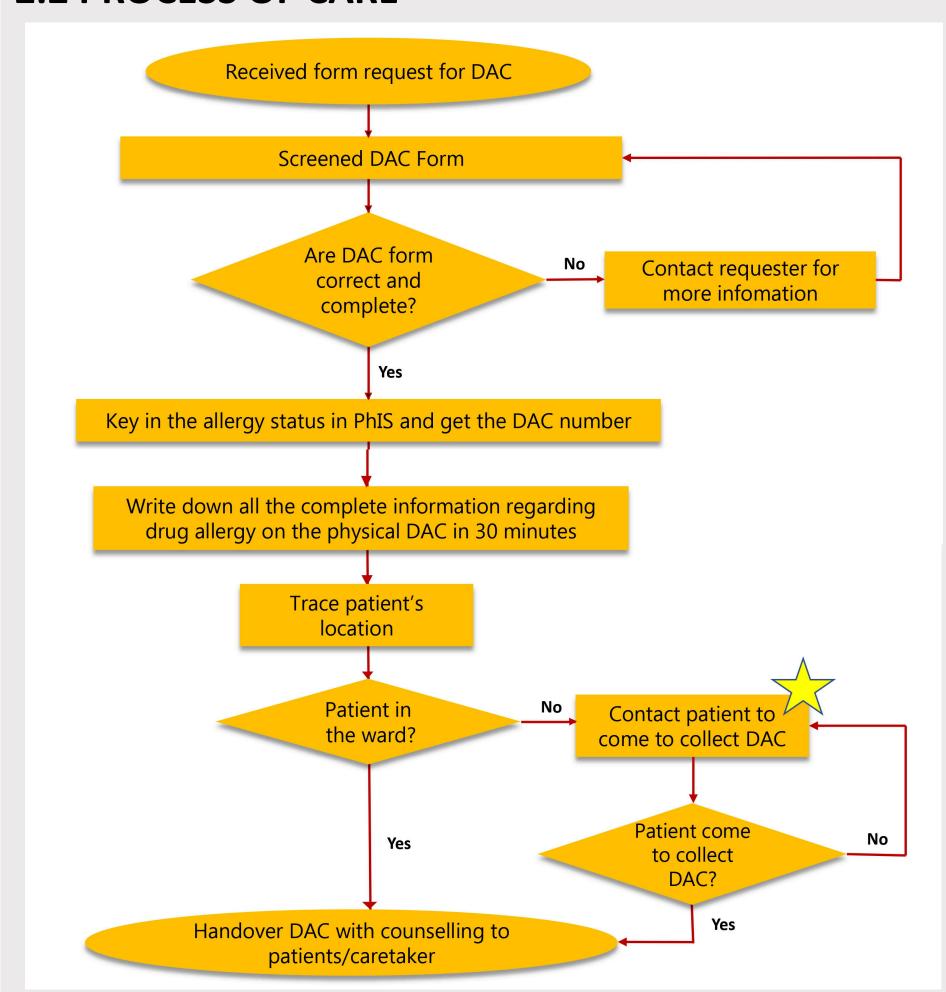
### **KEY MEASURES FOR IMPROVEMENT** 2.1 INDICATOR & STANDARD **INDICATOR STANDARD**

of Uncollected Drug of Uncollected Drug Allergy Card Total Number of Uncollected Drug Allergy Card

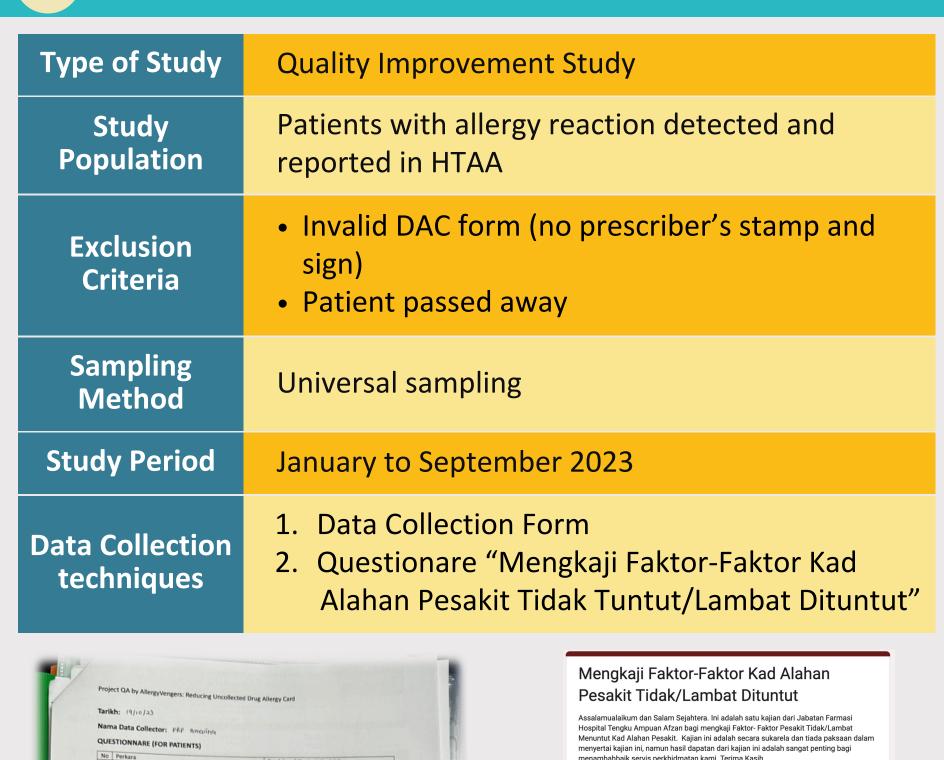
Total Number of Drug Allergy Card Issued

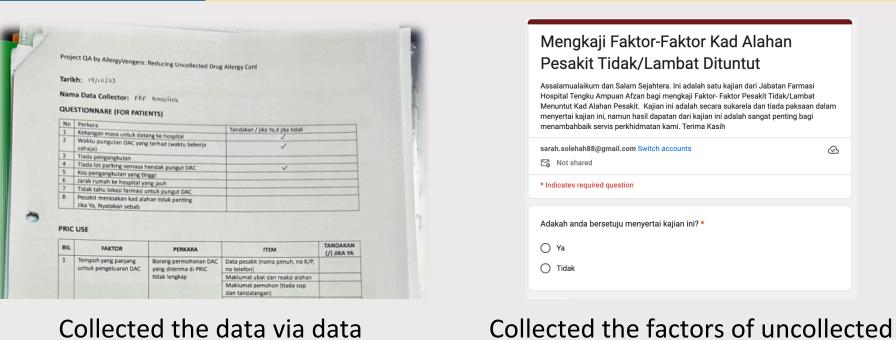
#### 2.2 PROCESS OF CARE

**FORMULA** 



## PROCESS OF GATHERING INFORMATION





DAC via Google Form Questionnaire

### **ANALYSIS & INTERPRETATION**

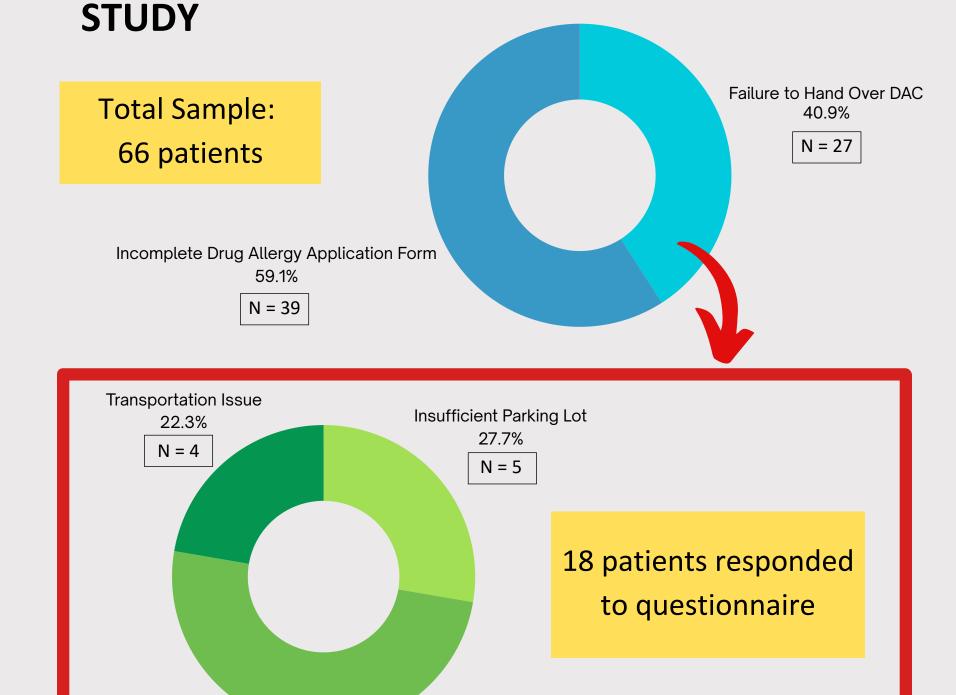
collection form

4.1 VERIFICATION STUDY

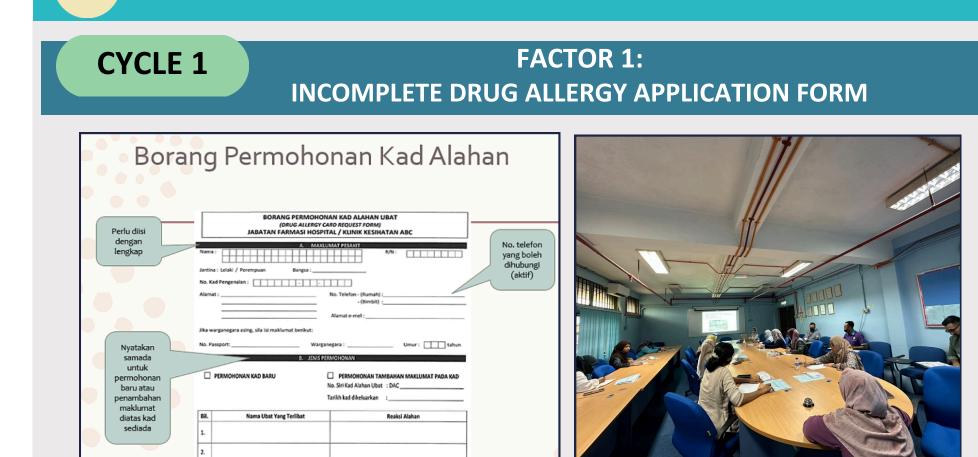
36.8%

#### **Result of Verification Study ABNA** Total No of Uncollected Drug Allergy Card Total No of Drug Allergy Card Issued 36.8%

# 4.2 CONTRIBUTING FACTORS FROM VERIFICATION



# STRATEGIES FOR CHANGE



1) Increase awareness in DAC reporting

PANDUAN RINGKAS PELAPORAN ADR & PERMOHONAN KAD **ALAHAN** Dikemaskini: October 2023 Create guide for Allergy



Create QR code to access DAC Form and display at Medication Safety File/board at 79 wards/units/clinics

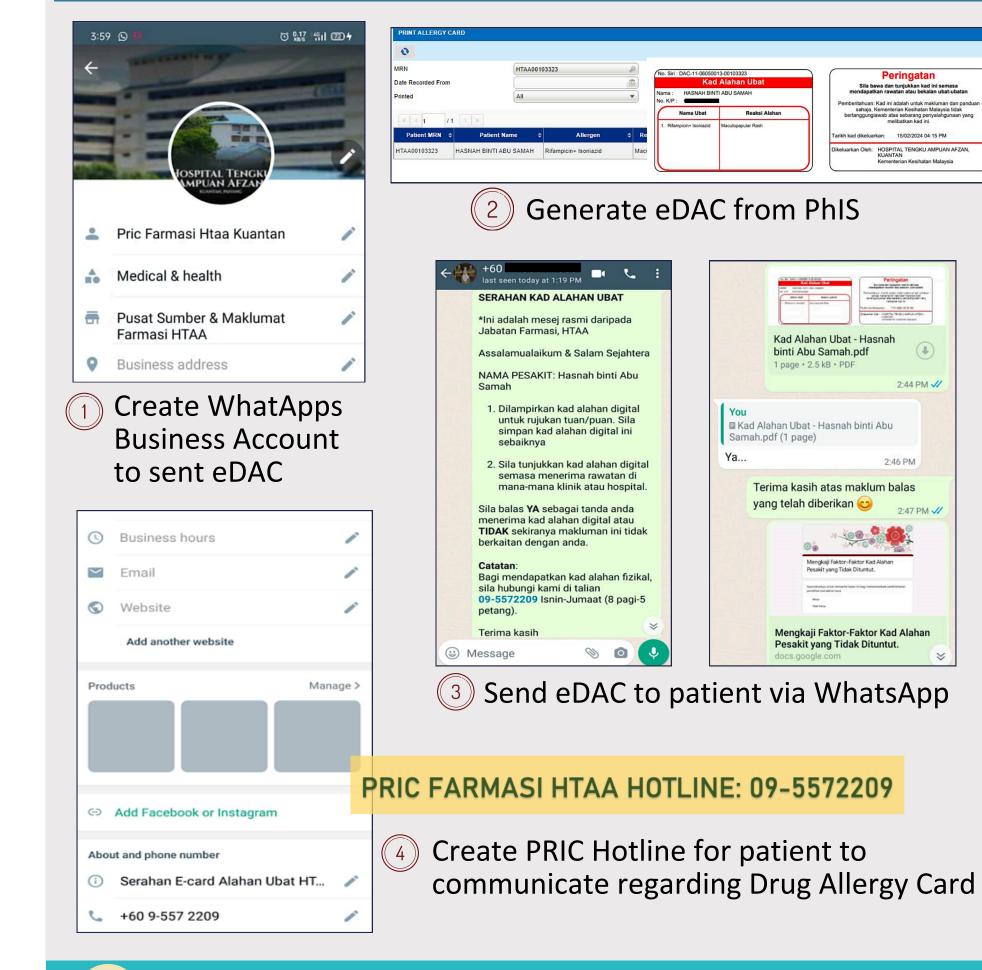
Card Application

#### **FACTOR 2: FAILURE TO HAND OVER DAC**



(4) Call patient after two weeks of uncollected DAC

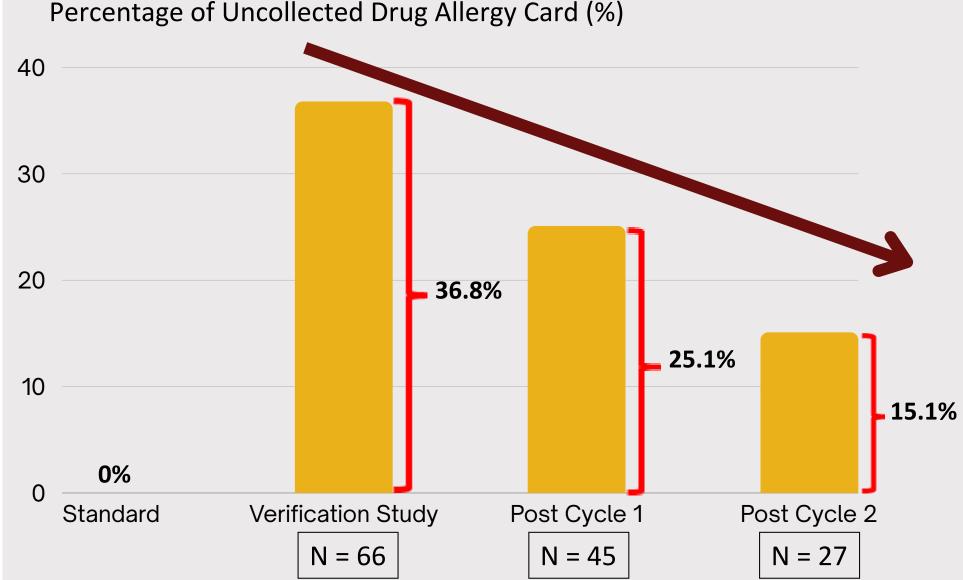
#### **CYCLE 2 FACTOR 2: FAILURE TO HAND OVER DAC FACTOR 3:** DIFFICULTY PATIENT/CARETAKER TO COLLECT DAC FROM PRIC



### 6 EFFECT OF CHANGE

### **6.1 ACHIEVEMENT & ABNA**

Percentage of Uncollected Drug Allergy Card (%)



### **6.2 IMPACT OF STUDY**

From this QA study, we able to:

- Reduce uncollected DAC from 66 DAC to 27 DAC
- Identify contributing factors that leads to uncollected DAC
- Increase patient benefit and reduce harm
- Increase efficiency of workflow in delivering DAC Reduce time consuming workflow

**6.3 LESSON LEARNT** 

- 1. The introduction of Whatsapp Bussiness application increase the efficiency of delivering DAC
- 2. Two cycle of interventions were able to lead to significant improvements

## THE NEXT STEP

- 1. To include drug allergy notification into MySejahtera App
- 2. To implement eDAC to all patients
- 3. To allow patients to collect DAC after office hour

1. Dr. Mastura binti Ahmad (HOD Pharmacy) **ACKNOWLEDGEMENT** 2. Pn. Helina binti Abdul Halim (Head of Section PRIC) 3. Pn. Nurul Amira binti Zunaidi (Facilitator)

Unable to Collect DAC During Office Hour

N = 9