

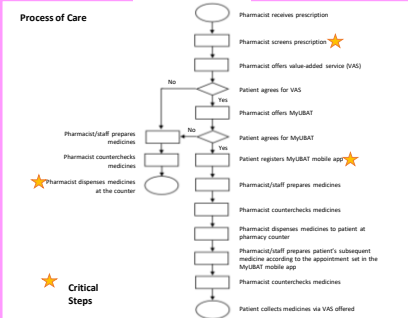
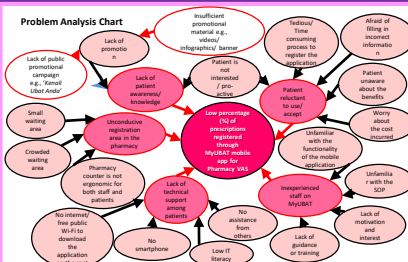
1. SELECTION OF OPPORTUNITIES FOR IMPROVEMENT

Problem Identification	S	M	A	R	T	TOTAL
Low usage of MYUBAT mobile app among the patients in Port Dickson Hospital	23	20	24	20	19	106
Frequent indent of psychotropics after office hours	14	24	17	15	15	85
High usage of list A item in ETD	15	24	15	21	20	95
High number of patients/ caregivers collected medication refills after office hours	20	19	18	18	17	92

Rating scale: 1 – Low 2 – Moderate 3 – High 8 group members

- VAS was introduced by the Malaysia Pharmacy Service Division to improve the quality of medication deliveries for refill prescriptions.
 - MYUBAT was developed and approved by the Ministry of Health (MOH), Malaysia since 2020 to resume patient's medication via VAS, especially during Covid-19.
- Seriousness** Only 0.54% (3 out of 552) of new prescriptions registered using the MYUBAT mobile app by the end of November 2021. This indicated that the patients needed to collect their medications through traditional counter service instead of VAS, which increased their waiting time, impacted patients' satisfaction towards pharmacy service, and increased the risk of communicable disease transmission, especially at the congested pharmacy waiting area.
- Measurable** Can be monitored via MYUBAT Web Console Management database.
- Appropriate** Pharmacy core business & indirectly improves patient's safety.
- Remediable** Multiple strategies can be implemented to solve the problem.
- Timeliness** Can be completed within short period of time.

2. KEY MEASURES FOR IMPROVEMENT



General Objective
To improve the % of prescriptions registered via the MYUBAT mobile app for Pharmacy VAS.

Specific Objectives

- To verify the % of new prescriptions registered through the MYUBAT mobile app.
- To identify factors contributing to the low % of new prescriptions registered through the MYUBAT mobile app.
- To formulate and implement appropriate remedial measures.

Study Indicator & Standard

Indicator The % of prescriptions registered through the MYUBAT mobile app

Formula $\frac{\text{No. of new prescription registered through MYUBAT mobile app} \times 100\%}{\text{Total number of new prescription registered in web console}}$

Standard 15% (Adapted from 2022 MOH VAS Action Plan¹)

3. PROCESS OF GATHERING INFORMATION

Study Design & Duration Cross-sectional; Verification: Dec 2021; Cycle 1: Jan-Mar 2022; Cycle 2: Apr-Jun 2022; Cycle 3: Jul-Sep 2022. Re-evaluation 1: Oct-Nov 2022; Re-evaluation 2: Jan-Feb 2023

Sampling Method Criteria Purposive sampling. Included new prescription that requires subsequent supplies & all new VAS prescription enrolled for Appointment Card & postal medicine. No exclusion criteria.

Variable	Study location	Data collector	Data collection time	Data collection method
Indicator		Pharmacist	At the beginning of every month	Pharmacy MYUBAT Web Console Management database
Contributing factors	Outpatient pharmacy department	Pharmacy staff	Office hours (8am to 5pm)	Self-developed survey form QR Code Staff Public Direct observation & data collection form
Critical steps				QR Code

REFERENCES

1. Nasarwan AM. 2020. Value added service of dispensing medicines. *Kedokteran: Health Online*. URL: www.healthonline.com.my/index.php/abstract/article/view/62
2. Berita Harian. 2020. COVID-19: Pwaki di bandar. *Berita Harian*. URL: <https://www.berita-harian.com/berita-harian/2020/04/09/COVID-19-pwaki-di-bandar-gempur-uruk-uruk-ubat-ucokai>

4. ANALYSIS AND INTERPRETATION

Verification study (data from Jul-Nov 2021): Only 0.54% (3/552) new prescriptions registered using MYUBAT mobile app

Survey on 20 Pharmacy staff & 50 patients/caregivers

A Three main contributing factors to the problem: 38.80% - Patient reluctance to use/accept MYUBAT mobile app. 23.08% - Lack of technical support. 13.60% - Lack of patient awareness/ knowledge.

5. STRATEGIES FOR CHANGE

Cycle 1: January - March 2022

Factors to be tackled: A + B + C

- Dedicated VAS dispensing counter to display banner & leaflet; provide counselling using the MYUBAT Flip Chart
- Staff immediately assisted the patients' caregivers to download & register the MYUBAT mobile app
- Continuing medical education (CME) for patients/caregivers in the waiting area of the outpatient pharmacy for further explanation
- MYUBAT & 'Kenali Ubat Anda' teams with the ambassadors to create awareness among the public
- CME based on the MOH guidelines for existing & new pharmacy staff to remind them on the standard operating procedure (SOP)
- Workshops & hands-on tutorials using the MYUBAT Training Mobile Apps & Training Server to stimulate the actual scenario and ensure the staff were well-equipped with essential knowledge

MYUBAT Training Mobile Apps (Black Icon)
MYUBAT Training Server: <https://stgwebconsole.pharmacy.gov.my>

Cycle 2: April - June 2022

Factors to be tackled: C

- Provided the MYUBAT promotional leaflets at the outpatient pharmacy prescription screening counter to enable patients/caregivers to have more time to understand MYUBAT while waiting for their medication collection
- Designed & ordered a new stamp cut 'MYUBAT' & stamp on the queue no. on the prescription during screening process to alert pharmacy staff that the patient is interested to use MYUBAT
- Designed slip incorporating a QR code directly linked to MYUBAT MOH's official website & stapled with prescription, to ease the patients/caregivers downloading the MYUBAT mobile app

Cycle 3: July - September 2022

Factors to be tackled: B

- Inserted the MYUBAT promotional leaflets into appointment card/postal medicine parcels to create awareness among the patient's family members & help illiterate patient to use/register MYUBAT mobile app
- Pharmacy staff shared cellular data hotspots with patients/caregivers without cellular data plans in their smartphones to enable them to download the MYUBAT mobile app instantly & perform new registration/service application on the spot

6. EFFECTS OF CHANGE

Achievable-Benefit-Not-Achieved (ABNA)

Remedial Phase: 80.79%
Sustainability Phase: ABNA -65.79%

Percentage (%)

Phase	Percentage (%)
Standard	15.00
Verification	0.54
Cycle 1	14.49
Cycle 2	15.91
Cycle 3	27.17
Re-evaluation 1	35.57
Re-evaluation 2	80.79

Model of Good Care (MOC)

Process	Criteria	Score (0-100)	Weight (0-100)	Score (0-100)	Weight (0-100)	Score (0-100)	Weight (0-100)	Score (0-100)	Weight (0-100)	Score (0-100)	Weight (0-100)	Score (0-100)	Weight (0-100)	Score (0-100)	Weight (0-100)
Pharmacist screens prescriptions	Ensure that prescription is for the right patient, with right dose, frequency, duration, and route	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	Provide leaflet about the MYUBAT mobile app to patient/caregiver while waiting for medication collection	100	0	0	80.1	80	100	100	100	100	100	100	100	100	100
Pharmacist dispenses medicines at the pharmacy counter	Stamp MYUBAT stamp on the prescription queue number for patient MYUBAT registration	100	0	0	100	100	100	100	100	100	100	100	100	100	100
	Dispense the medicines to the right patients, with right dose, frequency, duration, and route	100	0	0	100	100	100	100	100	100	100	100	100	100	100
Patient registers MYUBAT	Attach slip with QR Code to the queue to the MYUBAT MOH's official website to download the MYUBAT mobile app	100	0	0	100	100	100	100	100	100	100	100	100	100	100
	Pharmacy staff share cellular data hotspot with patient/caregiver without cellular data plans to download the MYUBAT mobile app	100	0	0	0	0	0	0	0	0	0	0	0	0	0

Impact of the project

Waiting Time The % of prescriptions dispensed within 30 minutes remained >95%.

VAS Total % of prescriptions registered with VAS in 2021 was 2966 & 4208 in 2022.

Unclaimed medicine No. of unclaimed medicines for VAS in 2021 was 388 and 289 in 2022.

Cost RM 35 involved in this project, for ordering the MYUBAT stamp chop.

Lessons learnt Most effective strategies to improve the % of new prescriptions registered through the MYUBAT mobile app:

- Providing immediate assistance to download and register the MYUBAT mobile app. **75%**
- Inserting MYUBAT promotional leaflets into medication parcel for patients signed up for VAS. **15%**
- Sharing cellular data hotspot with patients/caregivers without cellular data plan. **10%**

Staff Response (n=20)

7. THE NEXT STEP

- The strategies implemented in this study could be replicated to other health care facilities in the nation with similar problems.
- We would continuously monitor the work process to ensure the targets are achieved and maintained throughout the year.