# Increasing the Percentage of Good Quality Adverse Drug Reaction (ADR) Report at Hospital Tuanku Ampuan Najihah

Suriani M, Maryam Sakinah S, Safwah Nadzirah Alia S, Ruzanna Aini Z, Sandrika S

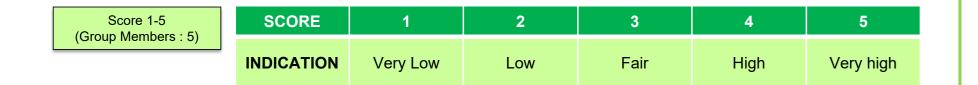
Pharmacy Department, Hospital Tuanku Ampuan Najihah, Kuala Pilah, Negeri Sembilan

# **1. SELECTION OF OPPORTUNITIES FOR IMPROVEMENT**

#### **1.1 Problem Prioritization**

**PP-30** 

NO.	Problems	S	М	Α	R	т	TOTA L
1.	Poor reporting of ADR in HTAN	14	13	11	10	13	61
2.	High percentage of discharge prescriptions received by discharge pharmacy out of office hour.	10	12	10	9	10	51
3.	Incomplete antibiotic request forms from wards	12	9	10	8	9	48
4.	Incomplete request form for medication usage out of formulary.	13	10	11	9	9	52
5.	High demand of extemporaneous preparation received by discharge pharmacy out of office hour.	9	9	8	9	10	45

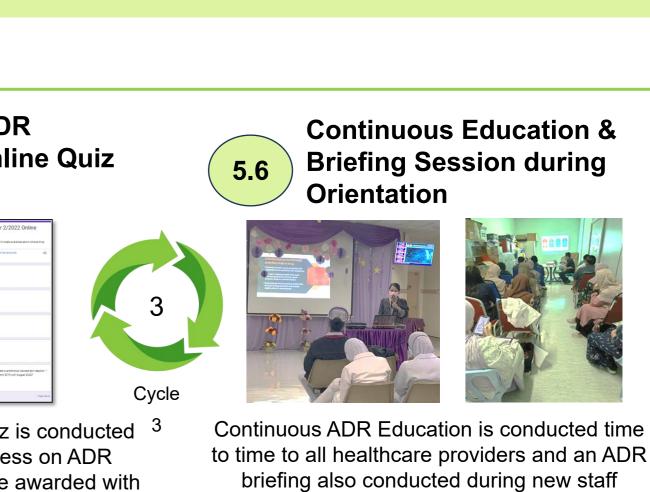




2.4 Indicator	& Standard			Conducting ADR		
	Percentage of good Pharmacy Departme	5.5	Awareness Online Qu	iz		
FORMULA	= <u>Number of good qu</u> Total number of		NADR Newsletter 1/2022 Online ZU22 ONLINE	3		
	•	ined as score of ≥ 10 based on the Advers rithm (AQUA-12) quality assessment tool.1	e Sum	and 104 / Bares - Depresent (201 / Bare)		
STANDARD **	00%** based on requirement se IPRA)²	t by National Pharmaceutical Regulatory Agency	reportin	wareness Online Quiz is condu thly to create awareness on AD g. The winners will be awarded the certificate of excellence.	R	
3. PRC	CESS OF GATH	HERING INFORMATION	Strategy 5.5	<ul> <li>Problems</li> <li>Previous strategies did not give regarding the understanding of professional towards ADR report</li> </ul>	healthcare	
Study Design	Cross-sectional	study	5.6	HTAN had high rate of staffs ex	•	
Study Setting		ı Ampuan Najihah		of new staffs might reduce over provider's knowledge and awar	eness in AD	
Sampling techniqu	e Universal Samp	ling		reports. Thus, this strategy was designed expected event.		
Data collection To	quality report) Data collection f	(use to investigate contributing factor of poor form (use to obtain percentage of good quality		6. EF	FECT	
Study Period	report) Verification stud	y: June 2022 until September 2022			(1100	
·	Cycle 1: Octobe Cycle 2: March Cycle 3: August	D.1 N Process	Model of Good Care Criteria	Standar		
Inclusion Criteria	All ADR reports			ADR reporting form is		
Exclusion Criteria	involving vaccin the-counter (OT	e, diagnostic substances, supplements, over- C) and traditional medicines.	Fill in ADR report form	<ul> <li>completely filled with:</li> <li>Patient information</li> <li>ADR Description</li> <li>Suspected drug details</li> <li>Concomitant drug details</li> <li>Reporter details</li> </ul>	100%	
4. A	Results	INTERPRETATION Main Contributing Factors of Poor Quality ADR Report	Screen ADR report form received	<ul> <li>ADR reporting form is completely filled with:</li> <li>Patient information</li> <li>ADR Description</li> <li>Suspected drug details</li> <li>Concomitant drug details</li> <li>Reporter details</li> </ul>	100%	
	33.48%	30.0% 25.7% 21.9%	6.2 C	ontributing Factors		
66.52%		⊗ 25.0% ⊕ 20.0% ₽ 15.0%		Main Contributing	g Factors Repo	
		A B C 5.0% 0.0% No Lack of Lack of reporting awareness knowledge	-	30.0% 25.7% 25.0% 20.0%	2	
Poor Quality	Good Quality	feedbacks		15.0% 10.0%		
	5. STRATEGIE	S FOR CHANGE		5.0% A 0.0%		

**Providing ADR Hotline** 

Number



orientation.

HIAP

Outcome back to us The quizzes paired with ADR webinar and knowledge and awareness of healthcare professional in HTAN were potrayed. (This strategy targets factors B and C) he influx Result of questionnaire on contributing factor healthcare indicate improvement in the 3 factors compare to verification study result eventhough there are influx of new staffs. prevent (This strategy improves factors A, B & C)

#### **OF CHANGE**

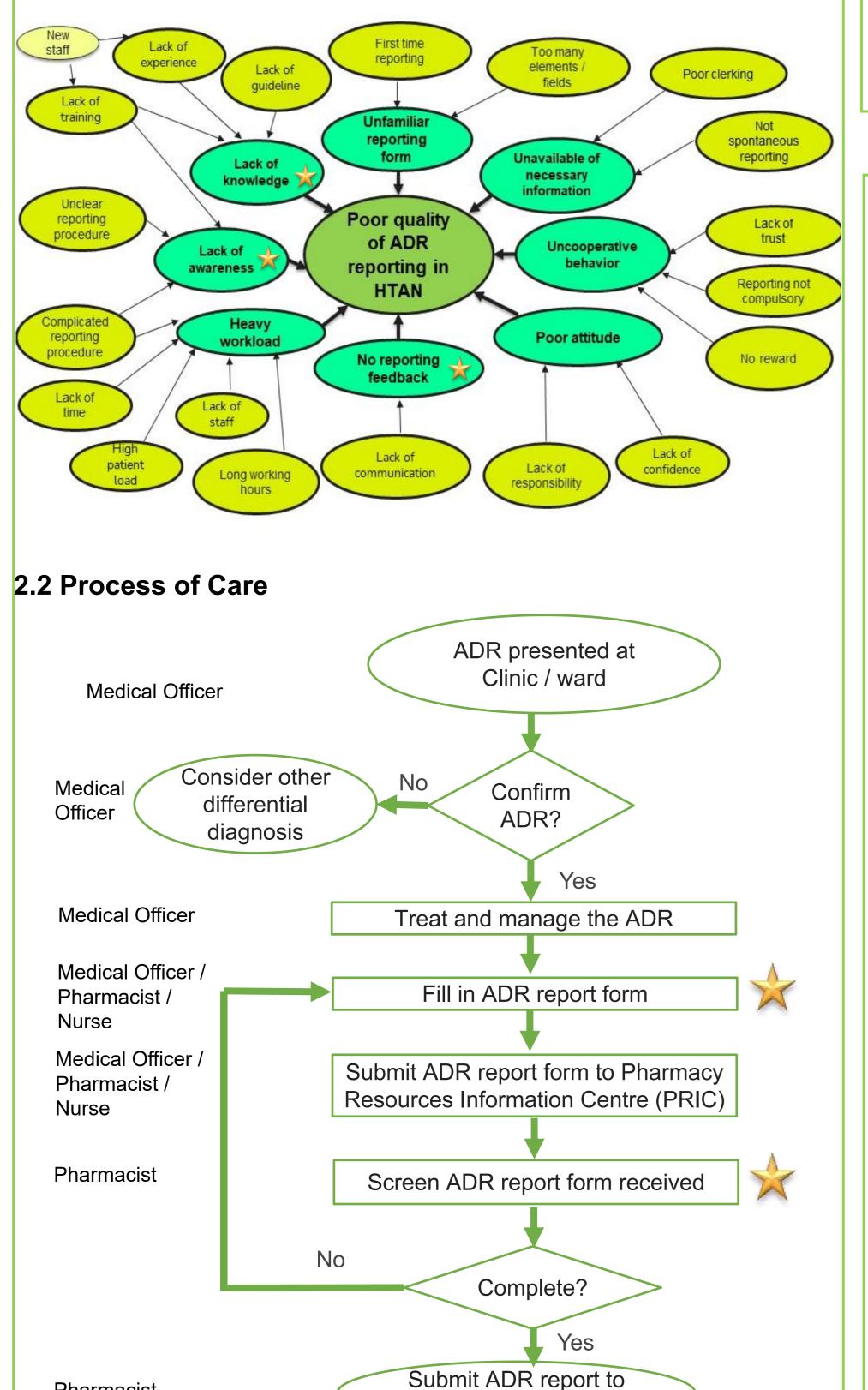
SERIOUSNESS		MEASURABLE	APPROPRIATENESS		REMEDIAL	TIMELINESS
High quality ADR reports are essential for conducting drug safety monitoring in pharmacovigilance		Data related to the problem are readily available and can be retrieved	The project is related to core business of pharmacy and is consistent with the organization goals and values in improving medication safety		Remedial action could be implemented to improve the work process with multidiciplinary approach	This study can be completed within intended period of time
	1			•		

## **1.3 Literature Review**

Adverse drug reaction (ADR) is defined as a response to a drug that is noxious and unintended and occurs at doses normally used in human for the prophylaxis, diagnosis, or therapy of disease, or modification of any physiological function<sup>2</sup>. A successful pharmacovigilance program is not only determine by amount of ADR reports but also by high-quality reports<sup>4</sup>.

**2. KEY MEASURES FOR IMPROVEMENT** 

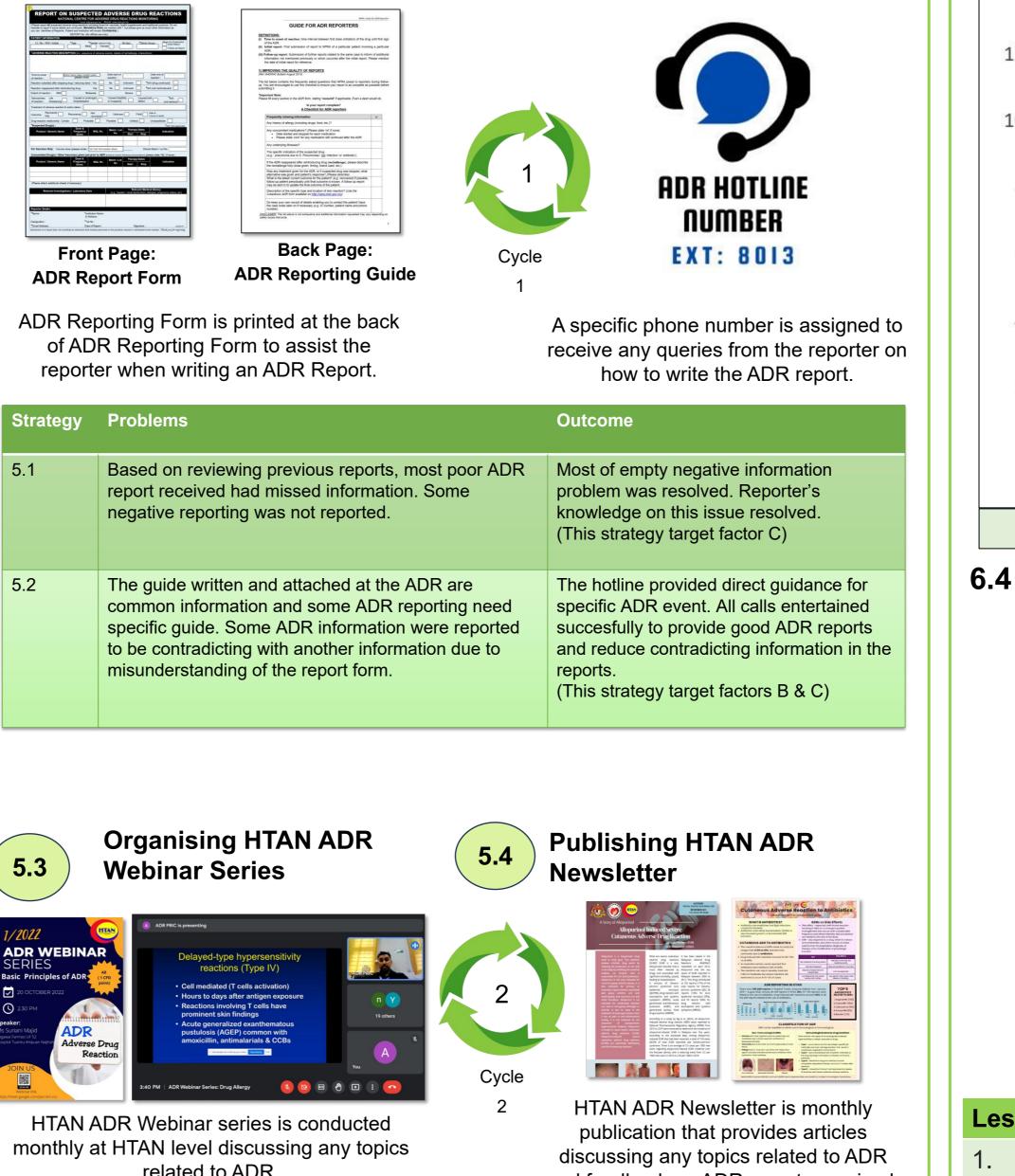
## 2.1 Problem Analysis



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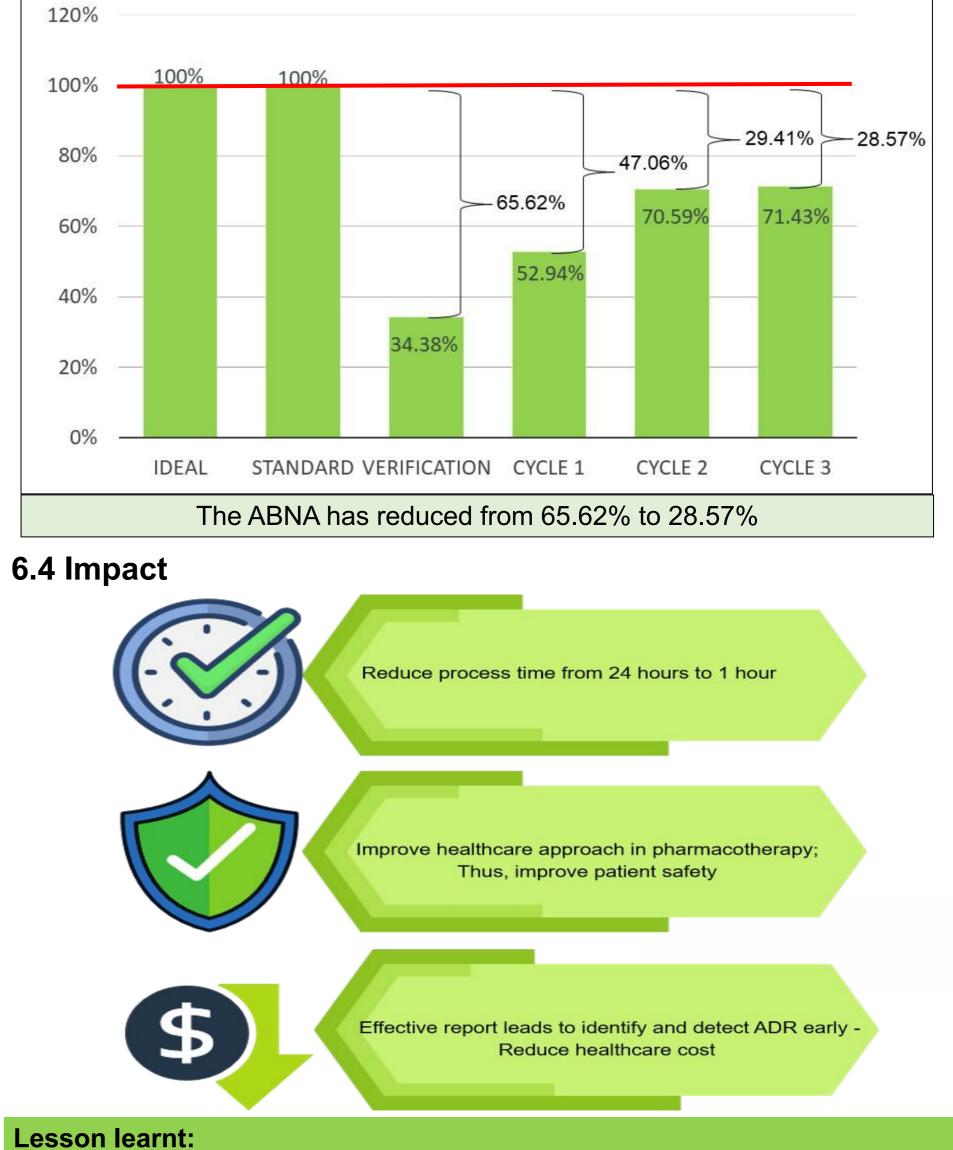
5.2

Attaching Reporting Guide to 5.1 the ADR Reporting Form



## GC)

Process		Criteria	Standard	Verification	Cycle 1	Cycle 2	Cycle 3			
Fill in ADR report form	<ul> <li>complete</li> <li>Patier</li> <li>ADR I</li> <li>Suspetion</li> <li>Concernance</li> </ul>	orting form is ly filled with: nt information Description ected drug details omitant drug details ter details	100%	77.75%	82.61%	83.5%	87.08%			
Screen ADR report form received	<ul> <li>complete</li> <li>Patier</li> <li>ADR I</li> <li>Suspetion</li> <li>Concernance</li> </ul>	orting form is ly filled with: nt information Description ected drug details omitant drug details ter details	100%	100%	100%	100%	100%			
6.2 Contributing Factors										
	Ma	in Contributing			ality AD	R				
	Report									
	30.0% 25.7%									
	25.0% 21.9%									
(%)	€ 20.0% 14.9% 19.0%									
intade	월 15.0% 11.1%									
Jerce	8.2%									
	5.0% A B C									
	0.0%									
	No reportingLack ofLack offeedbackawarenessknowledge									
Pre-remedial Post-remedial										
6.3 Ac	hievak	ole Benefit No	ot Achie	ved (ABN	<b>A</b> )		]			
		Effect o	f Changes	on ABNA						



1. Through this study, interventions implemented has proven beneficial in

NPRA NPRA	Telated to ADIX.	and feedback on ADR reports received.	improving quality of ADR reports. However, it has yet to achieve its target of 100%.
	StrategyProblems5.3The previous strategies only involved	Outcome The webinars were done with more than 15	2. Despite the success, this study has challenges on ensuring the interventions implemented reaching all HTAN healthcare providers.
2.3 Study Objectives	healthcare's providers that plan to write ADR report. Thus, this strategies was done to	attendies per session which discussed on basic principle of ADR, sharing common report in	
General Objective	widen the knowledge and awareness of ADF reporting to all healthcare's provider in HTAN	reporting.	6. THE NEXT STEP
To increase the percentage of good quality ADR report.		(This strategy target factors A, B & C)	
Specific Objectives	5.4 Some healthcare professional in HTAN had	The newsletters were circulated by hard and soft	We plan to:
<ol> <li>To verify the percentage of poor quality ADR reporting.</li> <li>To identify the contributing factors to poor quality ADR reporting.</li> <li>To formulate and implement apprendiate remodial measures.</li> </ol>	problem with attending programme due to the nature of work.	copy to expand the feedback mechanism and improve knoledge and awareness of ADR reporting. (This strategy target factors A, B & C)	<ol> <li>Continue monitoring of ADR reporting.</li> <li>Sustain the remedial measures.</li> <li>Create ADD Online Training Medule.</li> </ol>
<ol> <li>To formulate and implement appropriate remedial measures.</li> <li>To evaluate the effectiveness of remedial measures.</li> </ol>			<ol> <li>Create ADR Online Training Module.</li> <li>Expand the study to other healthcare facilities.</li> <li>Publish the study in Q Bulletin</li> </ol>
<ul> <li>Acknowledgements:</li> <li>1. Dato' Dr. Harlina binti Abdul Rashid, Pengarah Kesihatan Negeri Negeri Sembilan.</li> <li>2. Pn. Ezatul Rahayu binti Anuar, Timbalan Pengarah Kesihatan Negeri (Farmasi).</li> <li>3. Dr. Sarina binti Sidek, Pengarah Hospital Tuanku Ampuan Najihah.</li> <li>4. Pn. Nurrul Salwa binti Saleh, Ketua Jabatan Farmasi, Hospital Tuanku Ampuan Najihah.</li> </ul>		<ol> <li>National Pharmaceutical Regulatory A</li> <li>Salvador, M.R.; Monteiro, C.; Pereira</li> <li>Chen, Y., Niu, R., Xiang, Y., Wang, N</li> <li>Patel, P. B., Patel, T. K., Anturlikar, S</li> <li>Alshammari, T. M., Wa'ad, H., Le Lou</li> <li>Elkalmi RM, Elnaem MH, Sapar NM,</li> <li>Robertson, J., &amp; Newby, D. A. (2013)</li> </ol>	Y. et al. (2023). Eur J Clin Pharmacol 79, 513–522. Agency (NPRA). (2015, April). Bulletin_MADRAC_April_2015.pdf. , L.; Duarte, A.P. Int. J. Environ. Res. Public Health 2022, 19, 3754. I., Bai, J., & Feng, B. (2019). Biological and Pharmaceutical Bulletin, 42(12), 2083-2088 , Khatun, S., Bhabhor, P., & Saurabh, M. K. (2017). Perspectives in Clinical Research, 8(3), 137. Iet, H., & Aljadhey, H. S. (2015). Saudi medical journal, 36(7), 821. Blebil A. J Pharm Bioall Sci 2021;13:325-30. . Medical Journal of Australia, 199(10), 684-686. n, B., & Summers, R. S. (2017). Hospital practice, 45(5), 238-245. 2022). Eur J Clin Pharmacol 78(5), p781-1791.

Poster ini dibentangkan di Konvensyen QA Kebangsaan Kali ke-12, 8-10 Oktober 2024