

# Basic Medication Safety Module (Part I)

Pharmacy Services Program, MOH



# Basic Medication Safety for Pharmacist

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1. Introduction to Medication Safety Program in Malaysia
2. Type of Errors
3. Governments Initiatives to Improve Quality of Medication Safety

# Learning Objectives

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1. Better understanding on safe practices in handling medications.
2. Increase awareness on the importance of safe medication practice.
3. Increase awareness on the importance of medication error reporting.

# 01.

# Introduction to

# Medication

# Safety

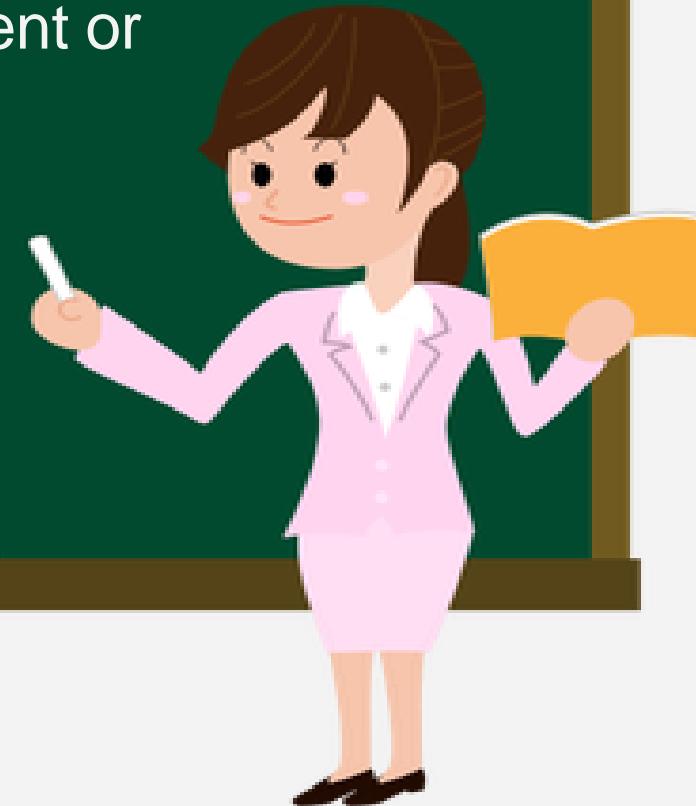
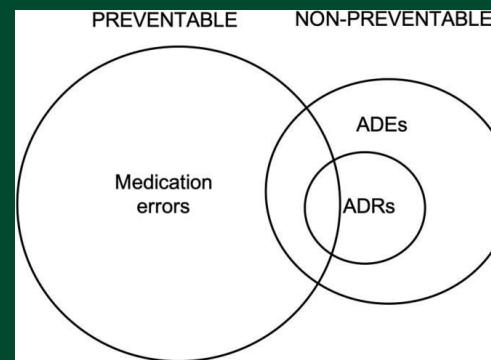
# Program in

# Malaysia



# Definition

Any **preventable event** that may cause or lead to inappropriate medication use or patient harm while the medication is in the control of the healthcare professional, patient or consumer.

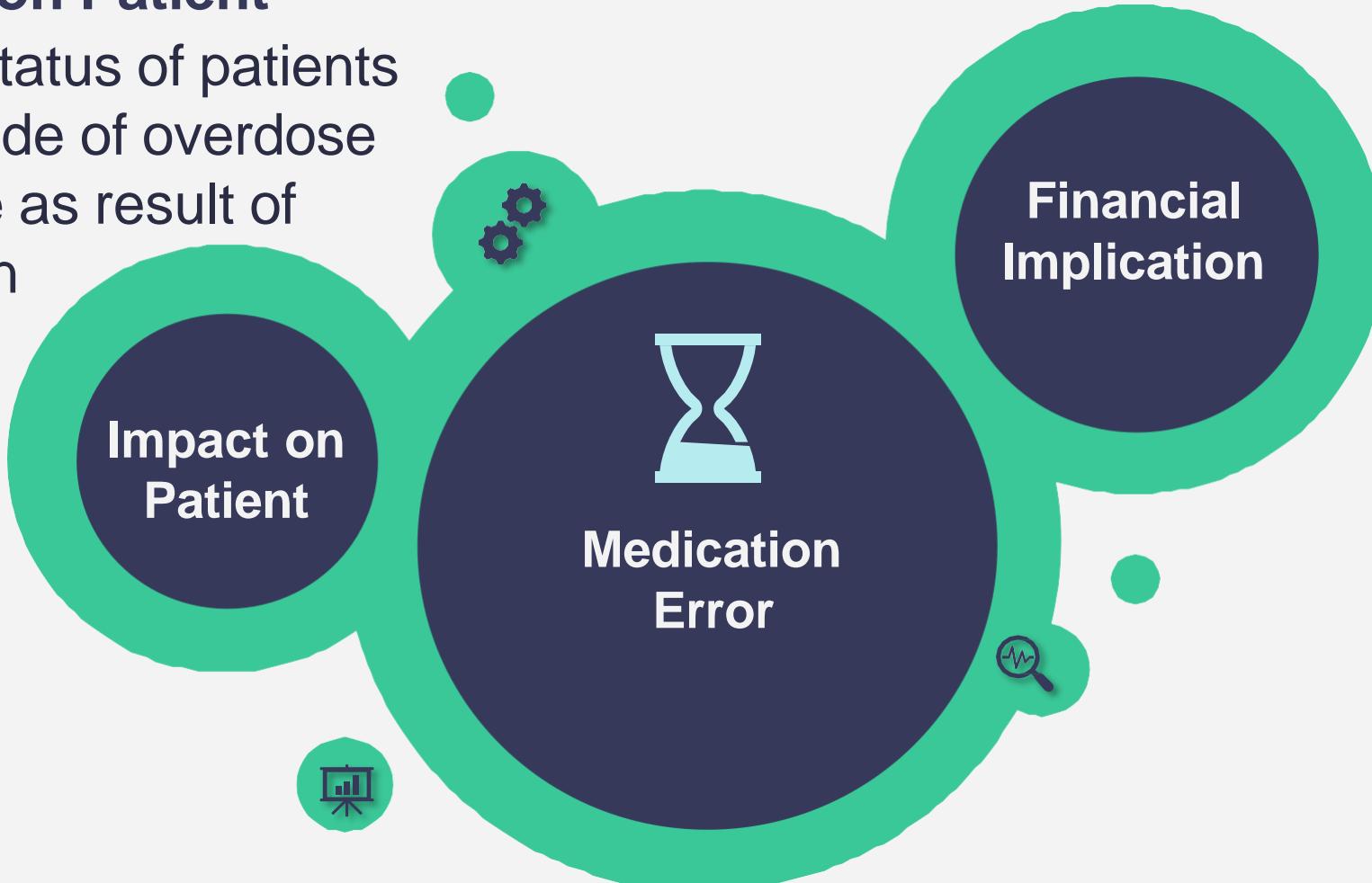


# ◦ Impact of Medication Error <sup>+</sup>



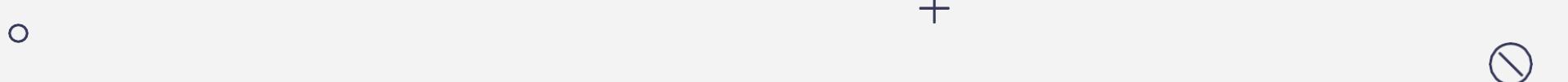
## Impact on Patient

- ✓ health status of patients
- ✓ magnitude of overdose
- ✓ damage as result of omission



## Financial Implication

- ✓ prolong hospital stays & increase health care expenses
- ✓ estimated to cost billions of dollars annually
- ✓ additional medical management
- ✓ legal fees & out-of-court settlements

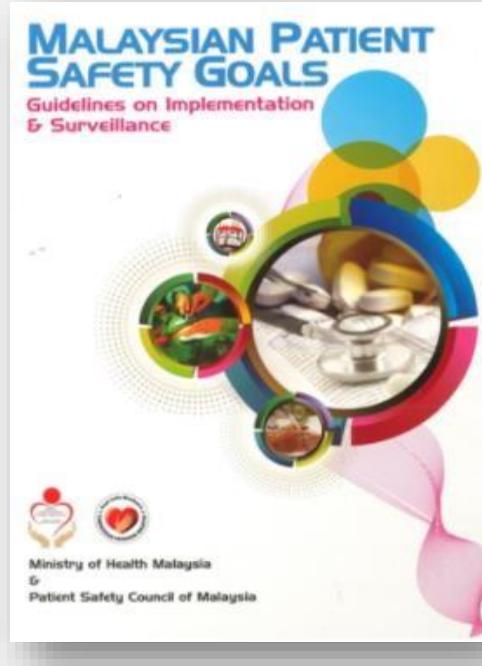


# What is Patient Safety?

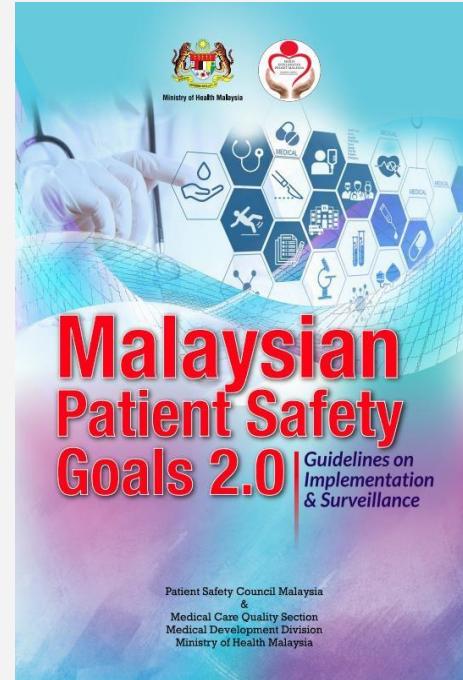
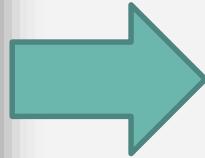
- A discipline in the health care sector that applies safety science methods toward the goal of achieving a trustworthy system of health care delivery.
- Aims to **prevent** and **reduce risks**, errors and harm that occur to patients during provision of health care A fundamental component of quality essential health services.
- clear policies, leadership capacity, data to drive safety improvements, skilled health care professionals and effective involvement of patients in their care are all needed to ensure successful implementation.



# Malaysia Patient Safety Goals (MPSG)



13 Goals



7 Goals

**Goal No. 3 : Medication Safety “Medication Without Harm”**

Number of Medication Error Related To Severe Harm Or Death ,Target : **Zero cases** (Hospital & Clinic)

**Additional data collection :**

- Total Number of Medication Error
- Total Number of Near Miss Medication Error
- Total No. of Admission and/or Clinic Visit

**Goal No. 6 : Correct Patient Identification**

Number of Incidents Caused by Wrong Patient Identification (detected by incident investigation)  
(Hospital)  
**Zero Cases**

# Goals In Malaysian Patient Safety Goals 2.0

<b>GOAL 1</b>	INFECTION PREVENTION AND CONTROL	<b>GOAL 4</b>	TRANSFUSION SAFETY
 <b>KPI 1 :</b> Hand Hygiene Compliance Rate <b>Target :</b> $\geq 75\%$ <i>6 monthly audit</i>	<b>KPI 2 :</b> Rate of Catheter Associated Blood Stream Infection <b>Target :</b> $\leq 0.5$ per 100 admissions <i>Once / year (point prevalence survey)</i>	 <b>KPI 6 :</b> Number of Incorrect Blood Component Transfused (IBCT) <b>Target :</b> Zero Cases <i>Monthly data collection</i>	
<b>GOAL 2</b>	SAFE SURGERY SAVES LIVES	<b>GOAL 5</b>	FALL PREVENTION
 <b>KPI 3 :</b> No. of "Wrong Surgery Performed" <b>Target :</b> Zero Cases <i>Monthly data collection</i>	<b>KPI 4 :</b> No. Of "Unintended retained surgical item" (URSI) <b>Target :</b> Zero Cases of Category 2 & 3 <i>Monthly data collection</i>	 <b>KPI 7 :</b> Rate of Patient Fall <b>Target :</b> Inpatient : $\leq 5$ per 1000 patient-days Outpatient & Primary Healthcare Facilities : $\leq 5\%$ <i>Monthly data collection</i>	
<b>GOAL 3</b>	MEDICATION SAFETY	<b>GOAL 6</b>	PATIENT IDENTIFICATION
 <b>KPI 5 :</b> Number of Medication Error Leading To Severe Harm Or Death <b>Target :</b> Zero Cases <i>Monthly data collection</i>		 <b>KPI 8 :</b> Number of Patient Safety Incidents Caused by Wrong Patient Identification (Detected by incident reporting & investigation) <b>Target :</b> Zero Cases <i>Monthly data collection</i>	
<b>GOAL 7</b>	INCIDENT REPORT AND LEARNING SYSTEM	 <b>KPI 9 :</b> Implementation of Patient Safety Incident Report and Learning System <b>Target :</b> System Implemented <i>Compiled monthly (No. of reports for additional information)</i>	

Malaysian Patient Safety Council

MOH

Malaysian Patient Safety Goals  
(MPSG) Steering Committee

MOH

Medication Safety Technical Working  
Group (TWG)

MOH

Patient Safety Committee/  
Medication Safety Committee

MOH

Patient Safety Committee/  
Medication Safety Committee

State/ Health Facilities

## Medication Safety Technical Working Group (TWG)



**Chairman:** Director of Pharmacy Development Division

**Members:** Doctors, pharmacists, pharmacy assistants, nursing & medical assistants from various division

### **Roles & Responsibilities:**

To closely monitor the performance of medication safety.

To plan strategies and facilitate remedial actions to improve performance.

To effectively and efficiently promote and disseminate information on medication safety.

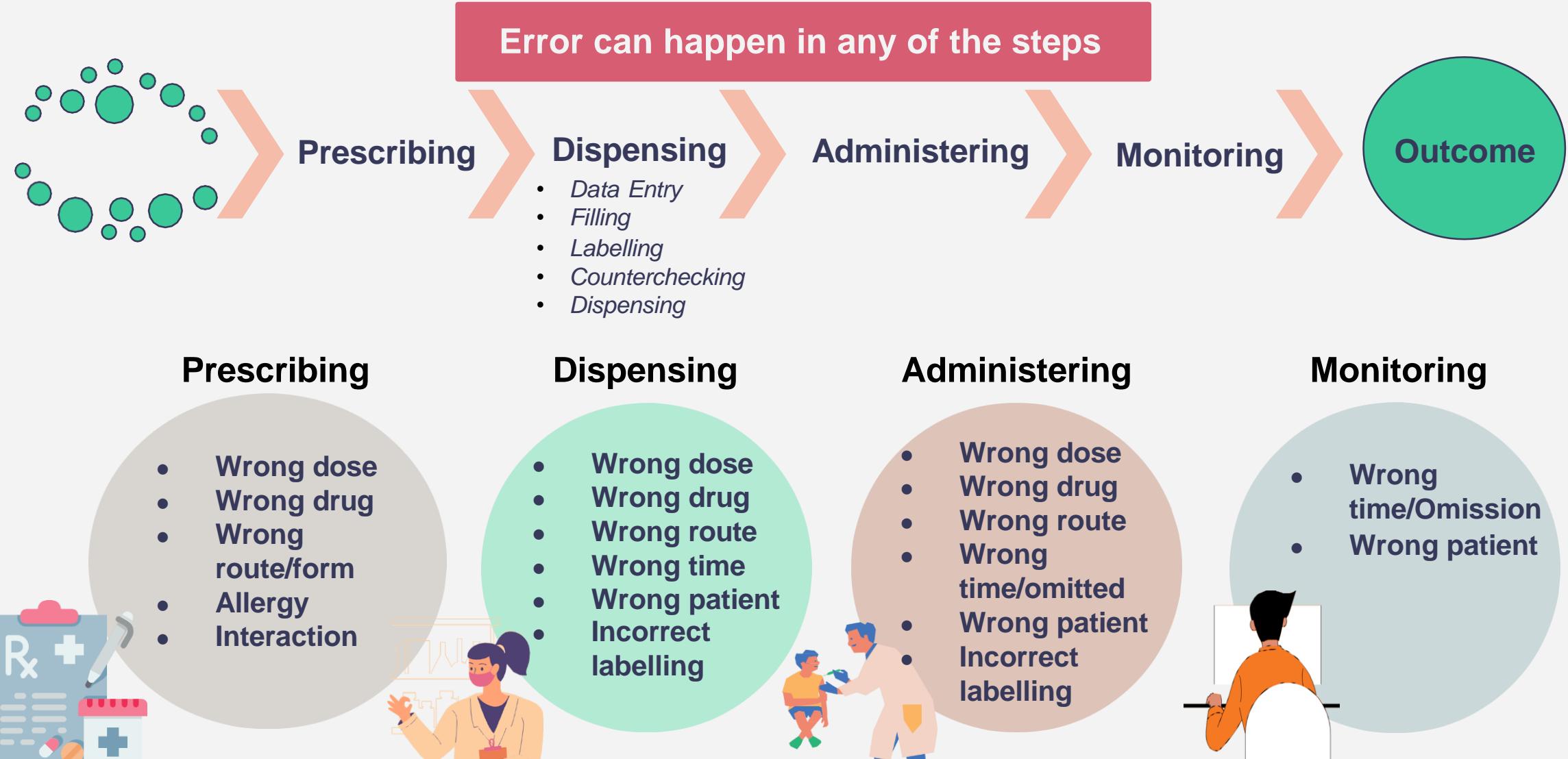
To make recommendations regarding amendments to specific goal, indicator and target .

02.

## Type of errors



# Medication Use Process



# Types of Error

TYPES	DEFINITION
1) Prescribing Error	Incorrect drug product selection (based on indication, contraindication, known allergies, existing drug therapy, and other factor), dose, dosage form, quantity, route, concentration, rate of administration, or instruction for use of a drug product ordered or authorized by physician (or other legitimate prescriber); illegible prescription or medication orders that lead to errors that reach the patient.
2) Omission Error	The <b>failure to administer an ordered dose</b> to a patient <b>before the next scheduled dose or failure to prescribe a drug product that is indicated for the patient</b> . The failure to administer an ordered dose excludes patient's refusal and clinical decision or other valid reason not to administer.

TYPES	DEFINITION
3) Wrong Time Error	Administration of medication outside a predefined time interval from its scheduled administration time.(this interval should be established by each individual healthcare facility)
4) Unauthorised Error	Dispensing or administration to the patient of medication <b>not authorised by a legitimate prescriber.</b>
° 5) Dose Error	Dispensing or administration to the patient of a <b>dose</b> that is <b>greater than or less than the amount ordered</b> by the prescriber or administration of duplicate doses to the patient.
6) Dosage-form Error	Dispensing or administration to the patient of a drug product in a different dosage form than that ordered by the prescriber.
7) Drug-preparation error	Drug product incorrectly formulated or manipulated before administration.

TYPES	DEFINITION
8) Administration-technique error.	Inappropriate procedure or improper technique in the administration of a drug other than wrong route.
9) Route of administration error	Use of wrong route of administration of the correct drug.
o 10) Deteriorated drug error	Dispensing or administration of a drug that has expired or for which the physical or chemical dosage-form integrity has been compromised.
11) Monitoring error	Failure to review a prescribed regimen for appropriateness and detection of problems, or failure to use appropriate clinical or laboratory data for adequate assessment of patient response to prescribed therapy.



TYPES	DEFINITION
12) Compliance error	Inappropriate patient behaviour regarding adherence to a prescribed education regimen.
13) Other medication error	Any medication error that does not fall into one of the above predefined categories.

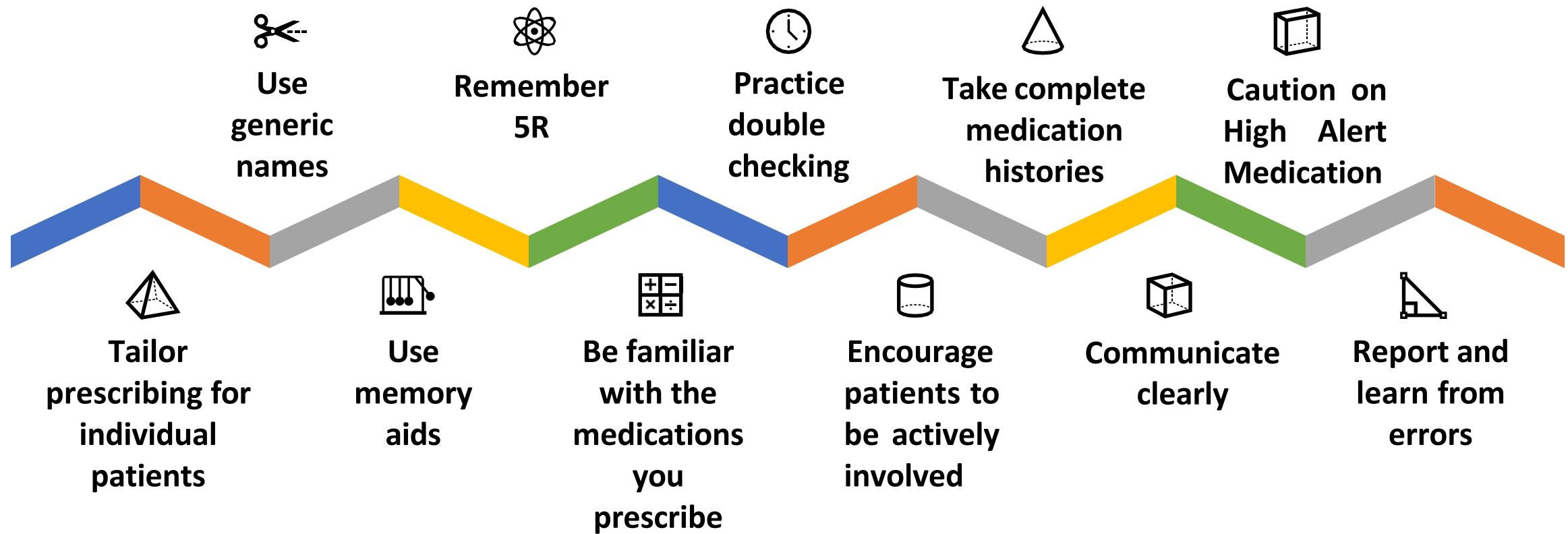
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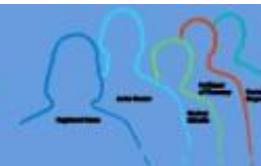
# How To Reduce The Risk Of Medication Error?

## YOUR ROLE AS HEALTHCARE PRACTITIONER



World Health Organization

Patient Safety  
A World Alliance for Safer Health Care



Patient Safety Curriculum Guide

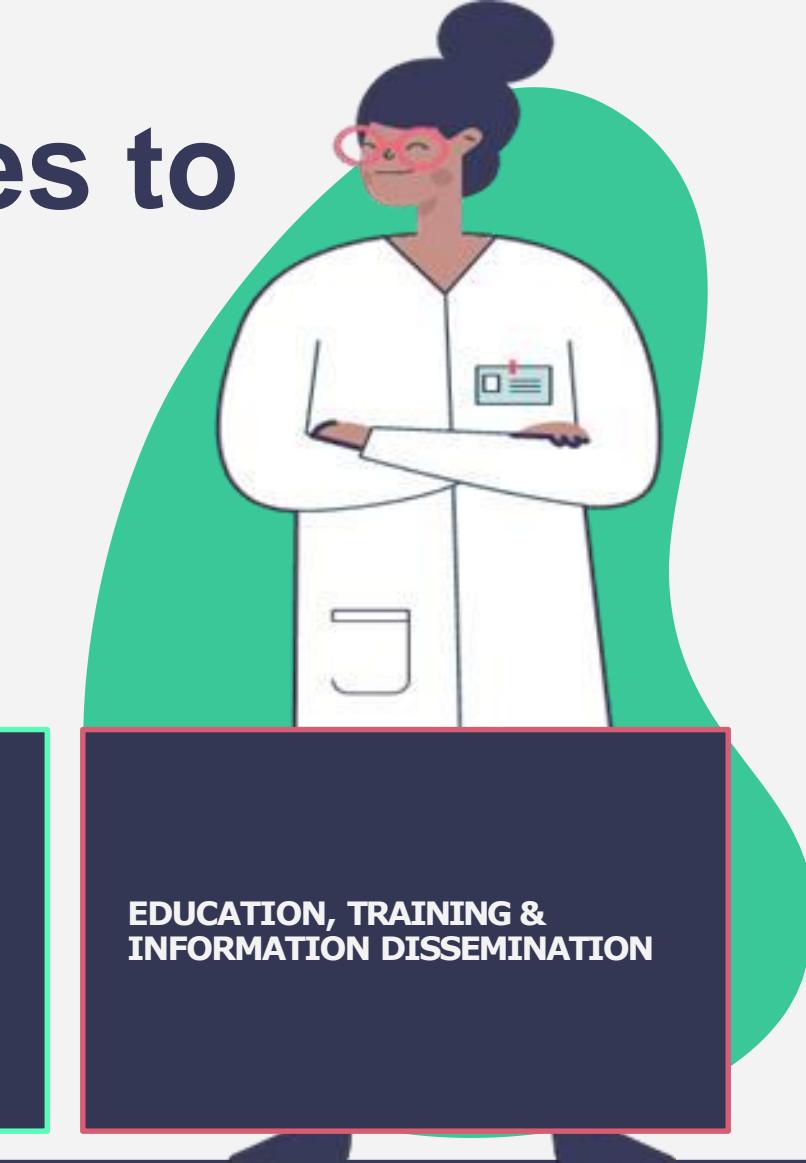
03.

## Government Initiatives to Improve Quality of Medication Safety

REPORTING & LEARNING

POLICY & GUIDELINES DEVELOPMENT

EDUCATION, TRAINING & INFORMATION DISSEMINATION



03.

## Government Initiatives to Improve Quality of Medication Safety

### REPORTING & LEARNING

Strengthening MERS And Managing A Database Of Medication Error Reports Received From Healthcare Facilities Nationwide

### POLICY & GUIDELINES DEVELOPMENT

### EDUCATION, TRAINING & INFORMATION DISSEMINATION



# MERS Objective

To obtain information on the occurrence of ME



To analyse the ME report



To learn and share experience on ME



To minimize the reoccurrence of such errors.



To improve  
**PATIENT SAFETY**



## Outcome analysis from MERS

- Medication error related harm
- Near miss
- Actual error
- Case review
- Drug-related problem (HAM, LASA, Polypharmacy)
- Recommendation of key priorities areas

# Medication Error Reporting System (MERS)

**MEDICATION ERROR (ME) REPORT FORM**

Reporters do not necessarily have to provide any individual identifiers for health intervention, including names of practitioners, names of patients, names of healthcare facilities, or dates of birth (age is acceptable)

1 Date of event:  dd/mm/yy 2 Time of event:  hh/mm (24 hr)

3 Type of Facility: \* MOH Other Government Facility  
 Hospital  Clinic  Pharmacy  
 Others:

4 Location of event:  Ward (Please specify: Medical/Pest/Ortho/...),  Clinic (Please specify: Outpatient/Specialist/Ortho/...),  Pharmacy (Please specify: Inpatient/Outpatient/Salary/NAE/...),  A&E  
 Others (Please specify: )

5 Please describe the error. Include description/ sequence of events and work environment (e.g. change of shift, short staffing, during peak hours). If more space is needed, please attach a separate page.

6 In which process did the error occur?  
 Prescribing  Dispensing (includes filling)  Administration  
 Others (Please specify: )

7 Did the error reach the patient?  
 YES  NO

8 Describe the direct result on the patient (e.g. death, type of harm, additional patient monitoring e.g. BP, HR, glucose level etc.).  
 Was the incorrect medication, dose or dosage form administered to or taken by the patient?  
 YES  NO

9 Describe the direct result on the patient (e.g. death, type of harm, additional patient monitoring e.g. BP, HR, glucose level etc.).  
 E Treatment/intervention required - caused temporary harm  
 F Initial prolonged hospitalisation - caused temporary harm  
 G Caused permanent harm  
 H Near death event  
 I Death

10 Please tick the appropriate Error Outcome Category (Select one)  
**NO ERROR**  
 A Potential error, circumstances/ events have  
 potential to cause incident  
**ERROR, NO HARM**  
 B Actual Error - did not reach patient  
 C Actual Error - caused no harm  
 D Additional monitoring required - caused no harm

11 Indicate the possible error cause(s) and contributing factor(s)  
 Staff factors  Task and technology  
 Inexperienced personnel  Failure to adhere to work procedure  
 Inadequate knowledge  Use of abbreviations  
 Distraction  Illegible prescriptions  
 Medication related  Patient information/ record unavailable/ inaccurate  
 Medication mix up  Wrong medicine/ instruction on dispensing envelope  
 Look alike medication  Wrong packaging/ or bottle container  
 Look alike packaging  Incorrect computer entry

12 For question 12-14, please fill each box with one of the following option:  
 a. Specialist  i. Pharmacist Assistant (Trainee)  
 b. Medical Officer (MO)  j. Nurse (Trainee)  
 c. Hospital Medical Officer (HMO)  k. Patient/Caregiver  
 d. Pharmacist  l. Assistant Medical Officer (AMO)  
 e. Professional Registered Pharmacist (PRP)  m. Dental  
 f. Medical Assistant  n. Others (Please specify in the box)

13 Which category made the initial error?  (If 'n. others', please specify: )

14 Other category also involved in the error?  (If 'n. others', please specify: )

15 If available, please provide patient's particulars (Do not provide any patient identifiers).  
Age:  years/ month/ days Gender:  Male  Female Diagnosis:

16 Product Details: Please complete the following for the product(s) involved. Kindly attach a separate page for additional products.

Product Description	Product # 1 (intended)	Product # 1(error)
16.1 Generic Name (Active Ingredient)		
16.2 Brand / Product Name		
16.3 Dosage Form		
16.4 Dose, frequency, duration, route		

Please fill in 16.5-16.7 if error involved similar product packaging:

Product Description	Product # 1 (intended)	Product # 1(error)
16.5 Manufacturer		
16.6 Strength / Concentration		
16.7 Type and Size of Container		

\* Please delete where not applicable

REPLY PAID / JAWAPAN BERBAYAR  
MALAYSIA  
No. Lesen : BRS 0915 SEL

Medication Safety Centre (MedSC),  
Pharmaceutical Services Division,  
Ministry Of Health Malaysia,  
P.O. Box 924, Jalan Sultan,  
46790 Petaling Jaya, Selangor.

NO STAMP REQUIRED  
SETIA POS TOKAI DILAKUKAN

All healthcare professional either in government or private sectors

## MERS Online

**2025 MEDICATION ERROR REPORTING SYSTEM**

Program Perkhidmatan Farmasi, Kementerian Kesihatan Malaysia

**REPORT MEDICATION ERROR HERE:**

**MOH FACILITIES**

**NON MOH FACILITIES**

**REPORTING IS STRICTLY BY HEALTHCARE PROFESSIONALS ONLY. ANY MEDICATION ERROR ENCOUNTERED BY PUBLIC MUST BE EVALUATED AND REPORTED BY A HEALTHCARE PROFESSIONALS.**

<https://sites.google.com/moh.gov.my/mers-bapfkkm?usp=sharing>



MERS BAPF  
KKM

[^ Home](#)

[MOH Dashboard](#)

[Non-MOH Dashboard](#)

[ME Database](#)

[Reference](#)

# 2025 MEDICATION ERROR REPORTING SYSTEM

*Program Perkhidmatan Farmasi, Kementerian Kesihatan Malaysia*



**REPORT MEDICATION ERROR HERE:**

**MOH FACILITIES**  [Click here to report](#)

**NON MOH FACILITIES**

**REPORTING IS STRICTLY BY HEALTHCARE  
PROFESSIONALS ONLY. ANY MEDICATION ERROR  
ENCOUNTERED BY PUBLIC MUST BE EVALUATED AND  
REPORTED BY A HEALTHCARE PROFESSIONALS.**



# MEDICATION ERROR REPORTING FORM (MERS) FOR MOH FACILITIES

Welcome to the Medication Error Reporting System (MERS) – a tool for healthcare professionals to report incidents, learn from mistakes, and prevent future errors. Every report you submit is valuable for improving patient care and saving lives. We encourage you to provide detailed information, and help make a difference.

marjan.mastura@moh.gov.my [Switch accounts](#)

 Draft saved

The name, email address and photo associated with your Google Account will be recorded when you upload files and submit this form

\* Indicates required question

Email \*

Your email address

State/Institution \*

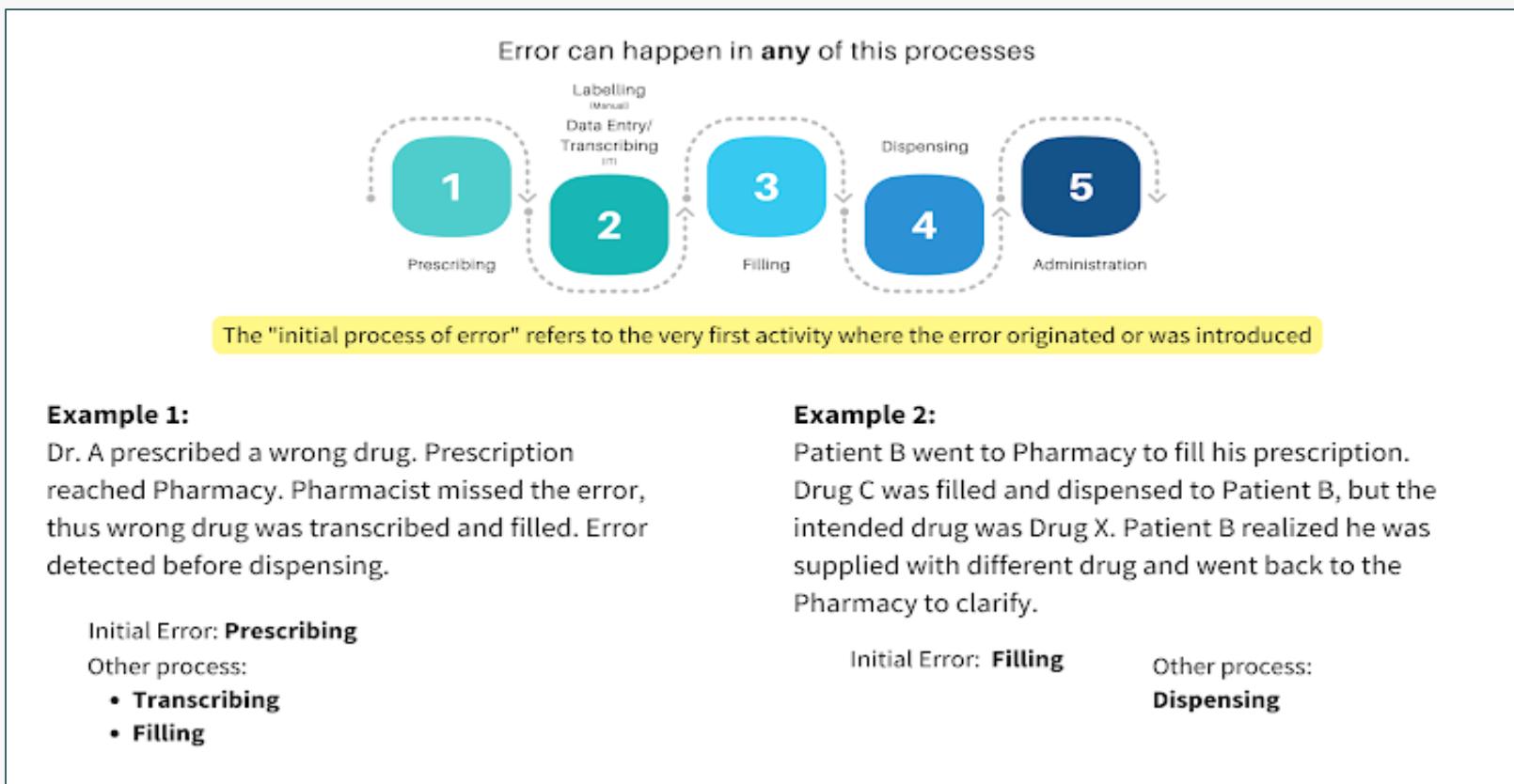
Johor

Isi maklumat:

- Email
- State/Institution > Johor
- Nama fasiliti Johor

## Isi maklumat:

1. Date of Event
2. Time of Event (24 Hour)
3. Type of Healthcare Facility
4. Setting of Event
5. Please describe the error. Include description/ sequence of events and work environment (e.g. change of shift, short staffing, during peak hours).
6. Please choose ONE initial process at which ME was initiated.
  - Example↓



Isi maklumat:

7. Other processes involved in ME (can choose more than one, DO NOT REPEAT PROCESS IN NO.6)
8. Did the error reach the patient?
9. Type of error
  - Reference↓



**Type of Error** refers to the specific category or nature of the mistake that occurred during the medication use process.

**Omission Error**

**01** Failure to administer an ordered dose before the next scheduled dose or failure to prescribe or dispense a drug product that is indicated for the patient. This excludes cases where the patient refuses and clinical decisions are made, or other valid reasons exist for not administering the medication

**Wrong Time Error**

**02** Prescribing, dispensing (inc. transcribing) or administration of a medication outside a predefined time interval from its scheduled frequency

**Wrong Drug Error**

**03** Prescribing, dispensing (inc. filling, transcribing) or administration of a drug that is not intended for the patient

**Dose Error**

**04** Prescribing, dispensing (inc. filling, transcribing), or administering a dose of a drug that is incorrect for the patient, whether it is higher or lower than the intended dose

**Dosage Form Error**

**05** Prescribing, dispensing (inc. filling, transcribing), or administration of a drug product in a dosage form different from what was intended

**Drug Preparation Error**

**06** Drug product incorrectly formulated or manipulated before administration  
E.g. TPN, CDR, Extemporaneous preparation

**Route of Administration Error**

**07** Use of wrong route of administration of the correct drug

**Administration Technique Error**

**08** Inappropriate procedure or improper technique in the administration of a drug other than wrong route

**Deteriorated Drug Error**

**09** Dispensing (inc. filling) or administration of a drug that has expired or for which the physical or chemical dosage-form integrity has been compromised

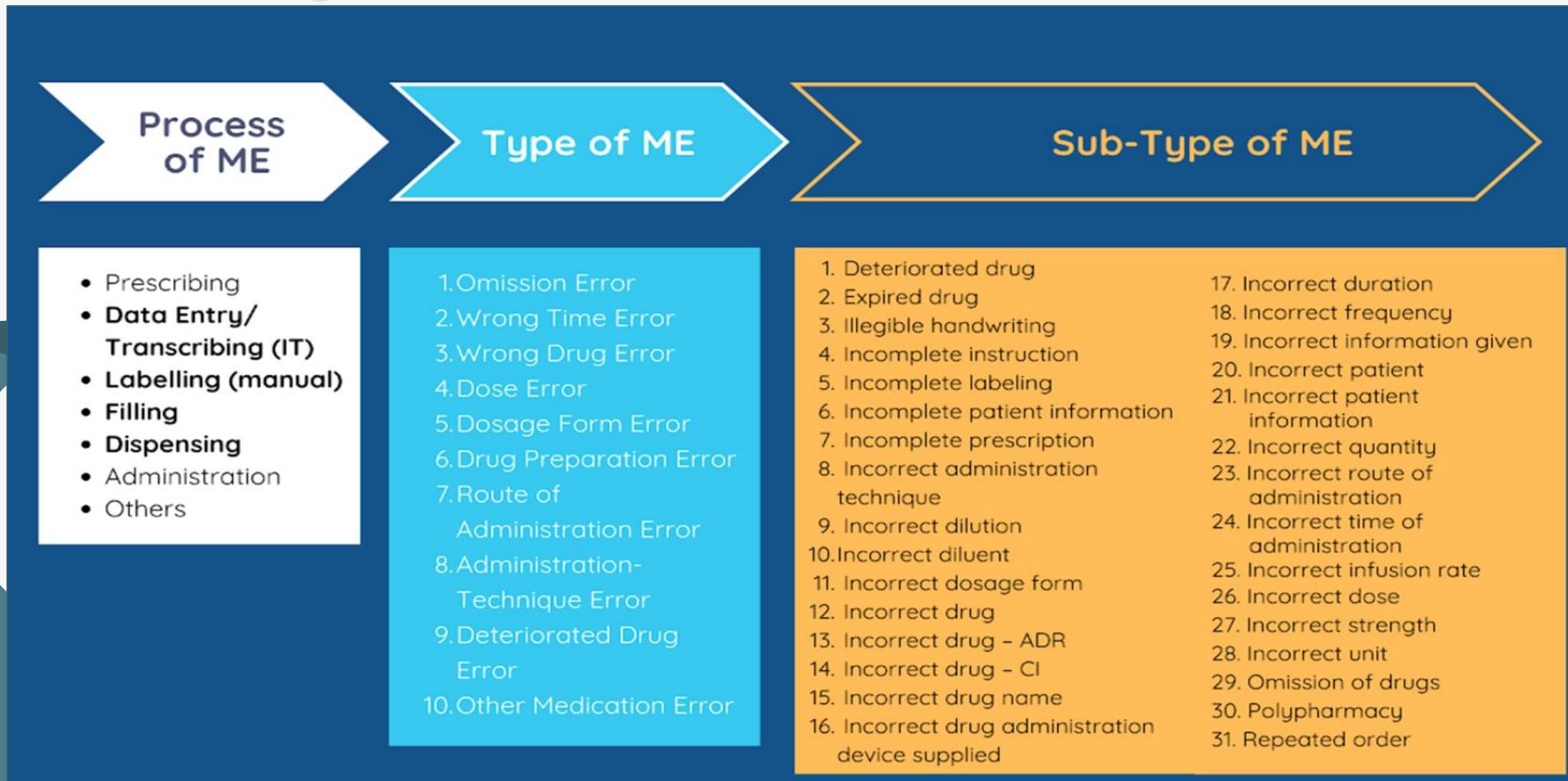
**Other Medication Error**

**10** Any medication error that does not fall into one of the above predefined categories, i.e. Wrong patient

Isi maklumat:

10. Sub-Type of Error

- Reference↓



# Guide For Categorizing Medication Errors

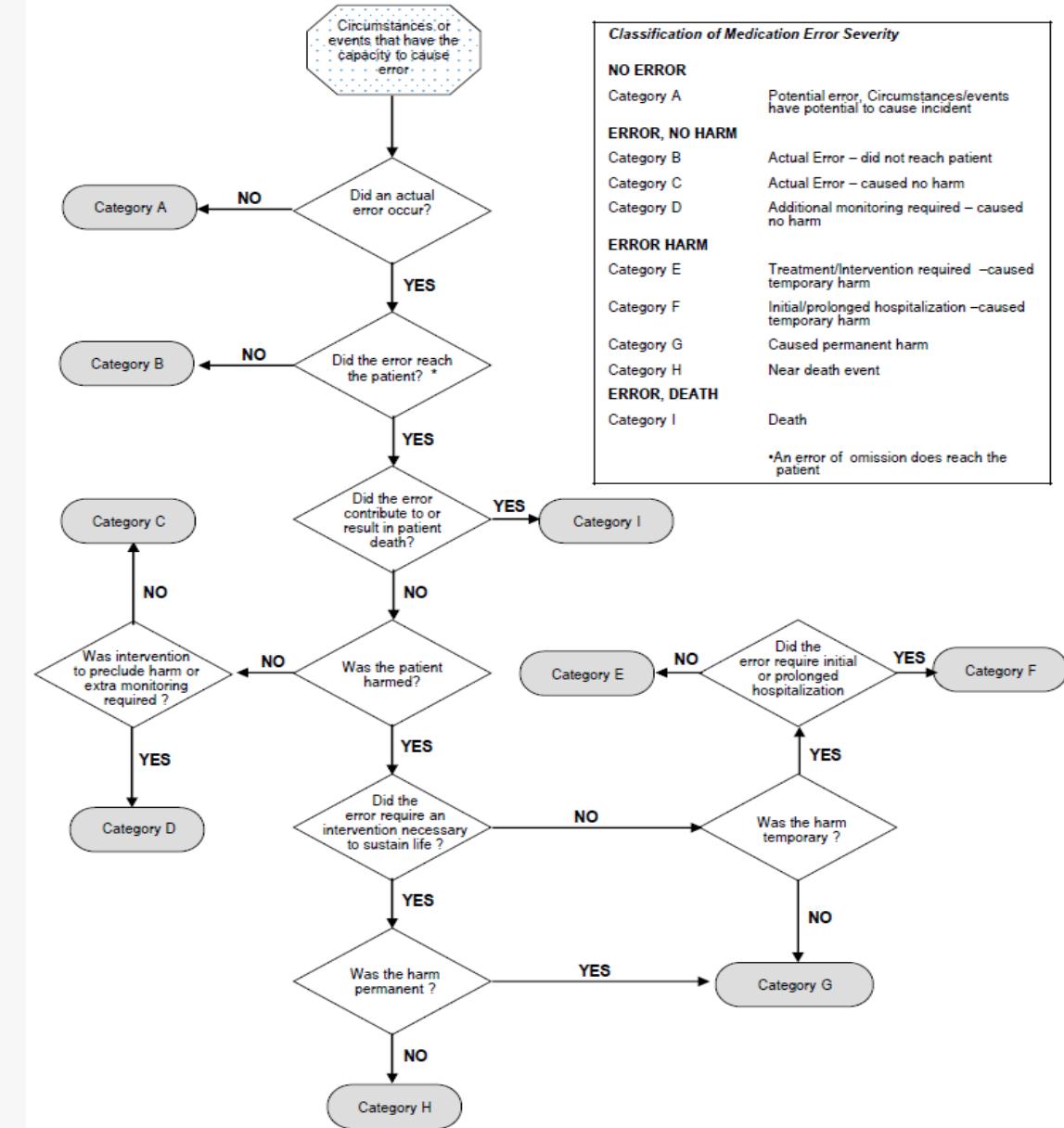
Isi maklumat:

## 11. Please tick the appropriate Error Outcome Category (Select one)

- Reference↓

### Classification of Medication Error Severity

NO ERROR	
Category A	Potential error, circumstances/ events that have the potential to cause incident.
ERROR, NO HARM	
Category B	An error occurred but the error did not reach the patient (an "error of omission" dose reach the patient).
Category C	An error occurred that reached the patient but did not cause patient harm.
Category D	An error occurred that reached the patient and required monitoring to confirm that it resulted in no harm to the patient and/or required intervention to preclude harm.
ERROR, HARM	
Category E	An error occurred that may have contributed to or resulted in temporary harm to the patient and required intervention.
Category F	An error occurred that may have contributed to or resulted in temporary harm to the patient and required initial or prolonged hospitalisation.
Category G	An error occurred that may have contributed to or resulted in permanent patient harm.
Category H	An error occurred that required intervention necessary to sustain life.
ERROR, DEATH	
Category I	An error occurred that may contributed to or resulted in the patient's death.



Isi maklumat:

12. Describe the direct result on the patient (e.g. death, type of harm, additional patient monitoring e.g. BP, HR, glucose level etc.)
13. Indicate the most possible error cause and contributing factor
14. Which category made the initial error?
15. Other category also involved in the error?
16. Which category discovered the error or recognized the potential error?
17. Patient's age (years/ months/ days)
18. Patient's Gender
19. Name of **INTENDED** Product  
If the product is a non-FUKKM item, please select 'Others'.  
*(List of products are extracted from FUKKM as of 31st Dec 2024)*
20. Name of **INTENDED** product (if not listed above)
21. Dosage Form **INTENDED** Product:  
*eg: solution for inhalation*
22. Details of **INTENDED** Product:  
Dose, Strength, frequency, duration, route  
*eg: 20MG ON, 2 Months, Oral*

23. Name of **ERROR** Product:  
If the product is a non-FUKKM item, please select 'Others'.  
*(List of products are extracted from FUKKM as of 31st Dec 2024)*
24. Name of **ERROR** product (if not listed above)
25. Dosage Form **ERROR** Product:  
*eg: inhaler (dry powder, MDI, capsule, solution)*
26. Details of **ERROR** Product:  
Dose, Strength, frequency, duration, route  
*eg: 20MG ON, 2 Months, Oral*
27. Was the error caused by similar product packaging?
28. If yes, please state the manufacturer and brand.
29. Attach relevant material and RCA report.  
RCA required for ME category F-I.
30. Reporter's Name
31. Reporter's Facility
32. Reporter's Contact No

03.

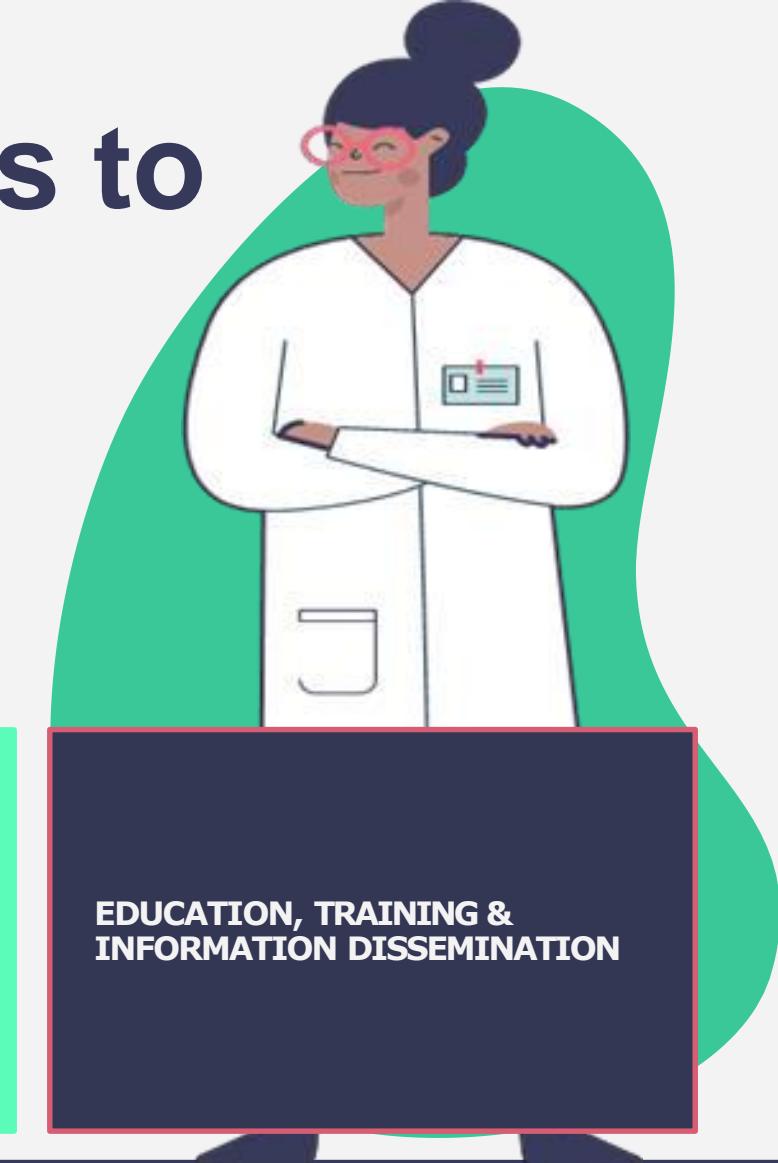
# Government Initiatives to Improve Quality of Medication Safety

REPORTING & LEARNING

## POLICY & GUIDELINES DEVELOPMENT

Planning Strategies, Initiatives, Prioritize Action And Develop Policy For System Improvements To Encourage Safe Medication Practices.

EDUCATION, TRAINING & INFORMATION DISSEMINATION



# Policy Implementation

- **PhIS (Pharmacy Information System)**

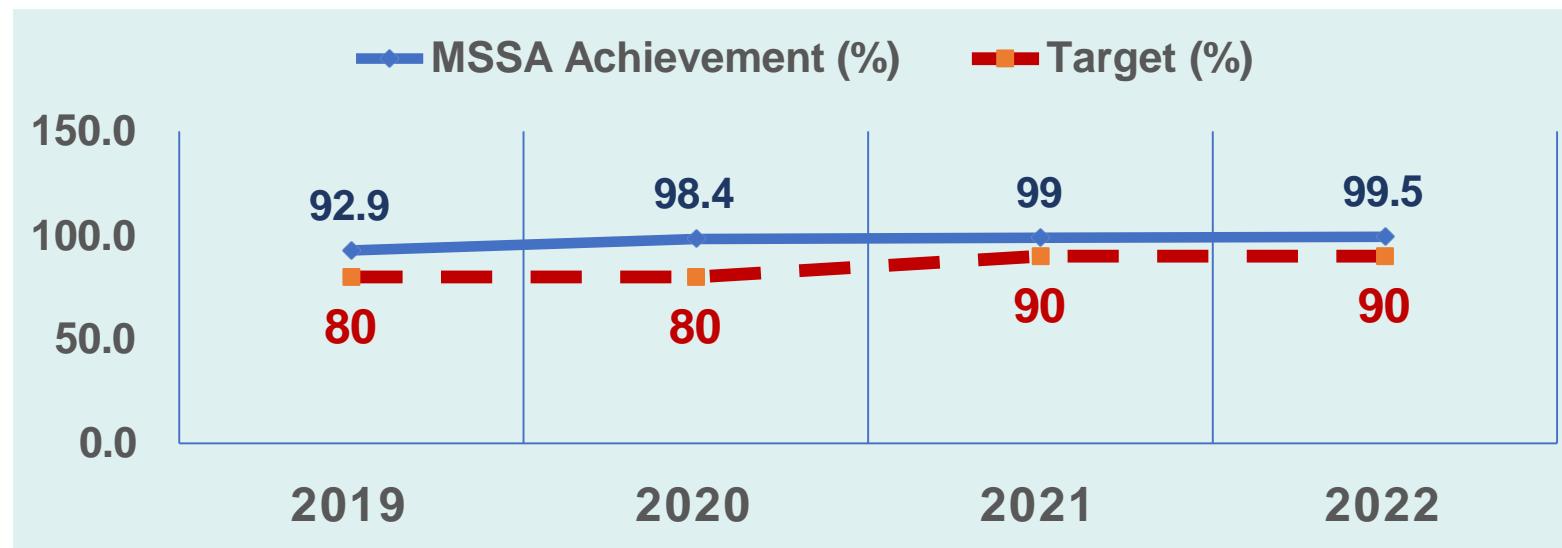
- A **complete and comprehensive system** that integrates pharmacy related services with the objectives to gear toward pharmacy excellent care.
  - **Enhance patient safety measure** by increasing access to patient medication records, improved pharmacy workflow and substantially reduce the risk of medication errors.
  - The decision support system (MIMs gateway) helps to **improve the quality of checking** along the medication management process.

- **Medication Safety Self-Assessment (MSSA)**

- Criteria checklist for medication safety evaluation has been establish to guide the healthcare facilities on **the improvement of medication safe practice**.

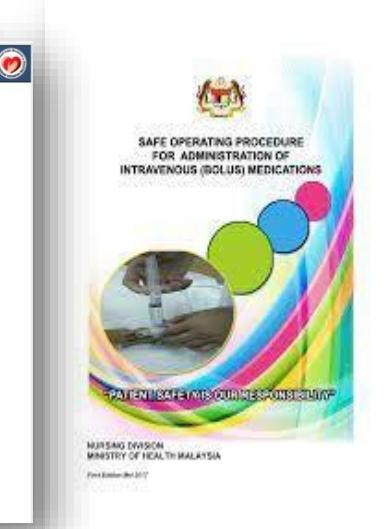
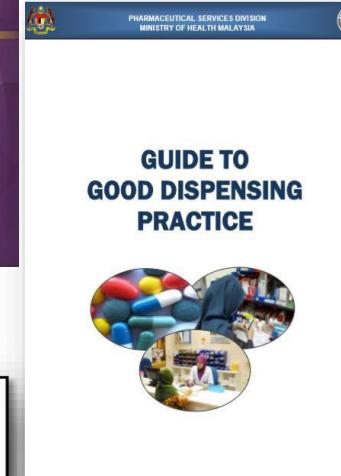
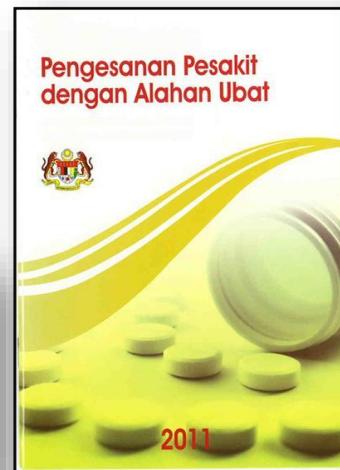
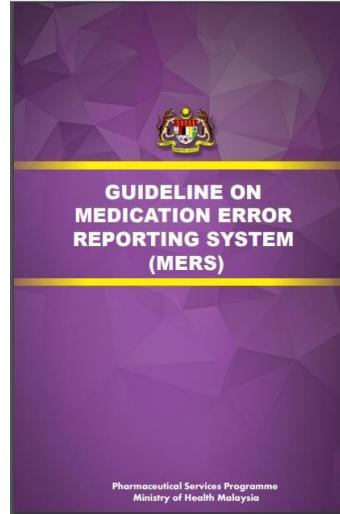
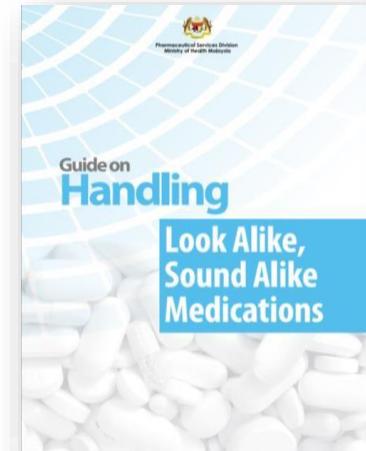
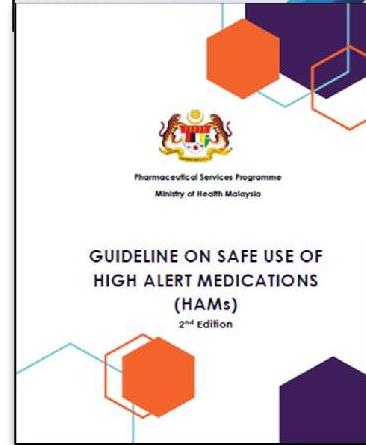
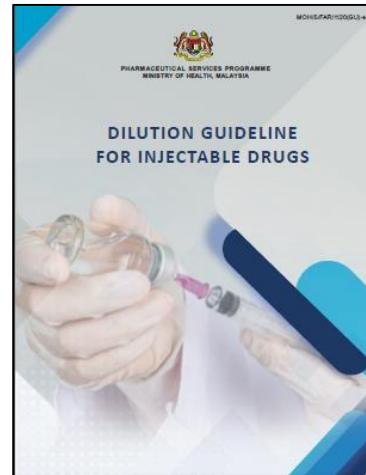
# Policy Implementation

- KPI (Key Performance Indicator)
  - ❑ KPI for Director of Pharmacy Practice & Development Division.
  - ❑ All MOH health facilities must **ACHIEVED full compliance ≥80% in medication safety self-assessment criteria (MSSA)**



KPI = Number of health facilities achieving full compliance  $\geq 80\%$  for MSSA out of the total number of facilities that have been identified to carry out MSSA.

# 9 Medication Safety Practice Guidelines



03.

## Government Initiatives to Improve Quality of Medication Safety

REPORTING & LEARNING

POLICY & GUIDELINES DEVELOPMENT

### EDUCATION, TRAINING & INFORMATION DISSEMINATION

Strengthening And Monitoring Medication Safety Activities Through Briefings, Talks, Trainings, Campaigns, Exhibitions And Publications, Radio Talks And Others.



# Education, Training & Information Dissemination



**18** Newsletters



**8** Medication Safety Alerts



**5** Training Modules

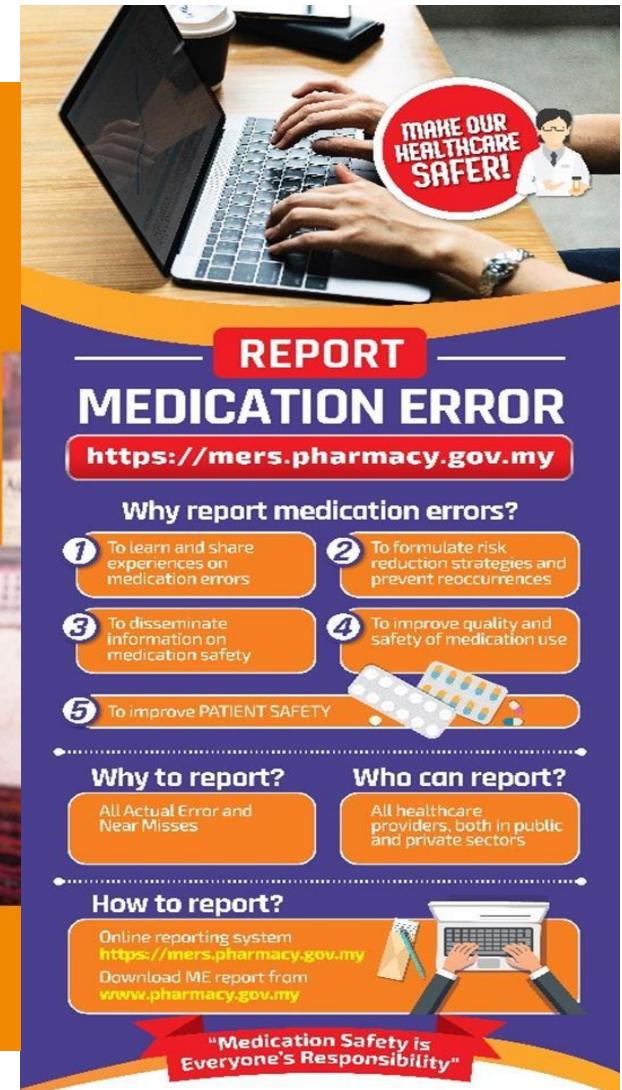
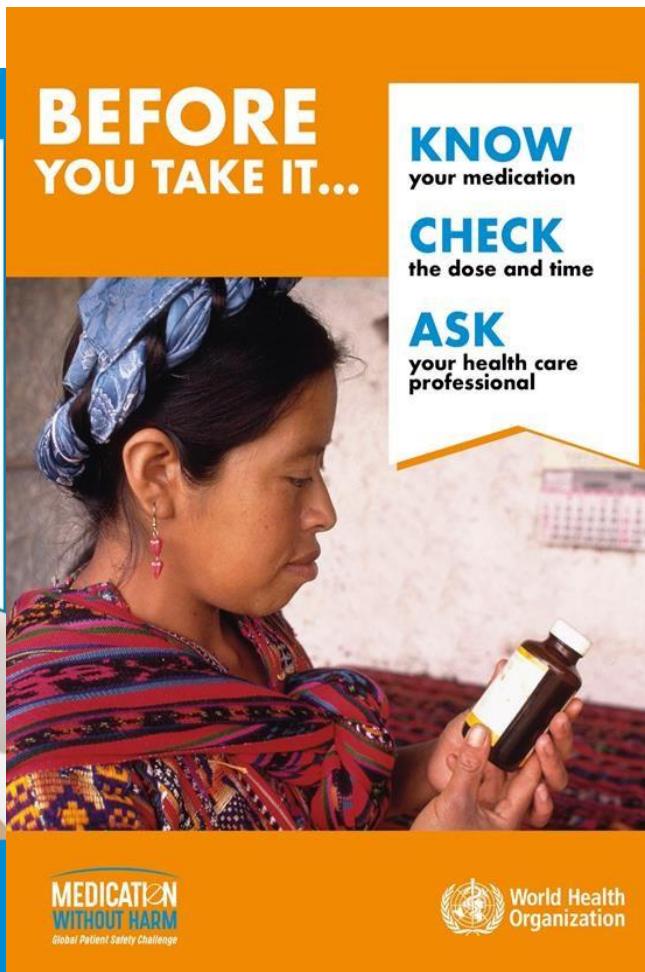
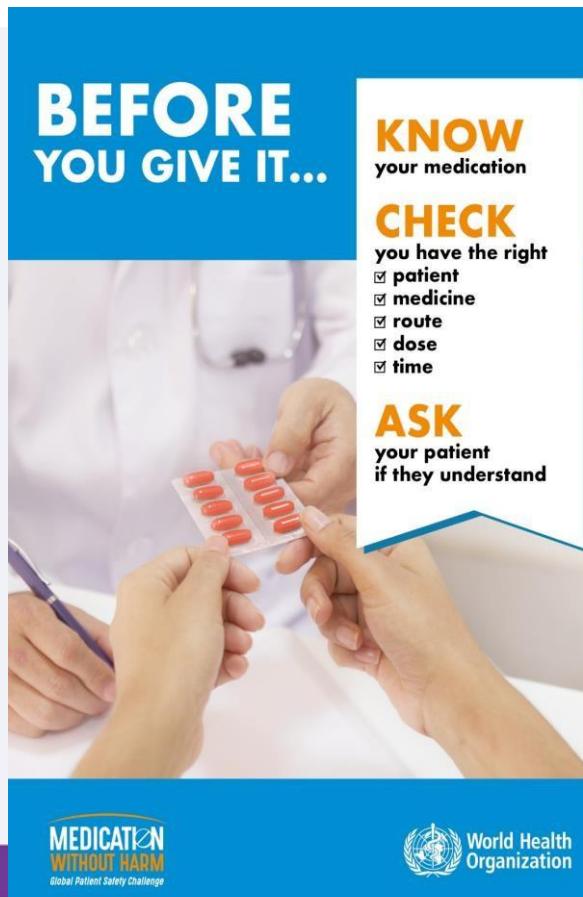


**4** Education Videos

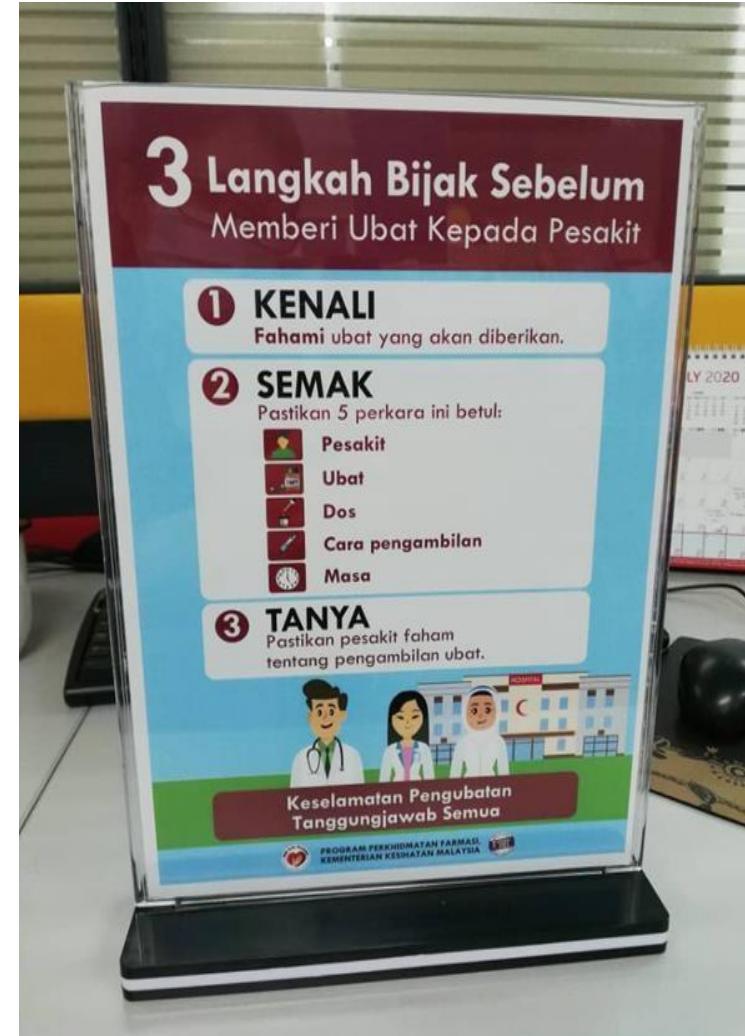
# Videos



# Posters



# A4 Infografik



# 5 Detik Penting

Pengambilan Ubat yang Selamat

## 1 OMULA rawatan

- ▶ Apakah nama dan kegunaan ubat ini?
- ▶ Apakah risiko dan kesan sampingan yang mungkin alami semasa mengambil ubat ini?



## 2 AMBIL ubat

- ▶ Bilakah saya perlu mengambil ubat?
- ▶ Berapa banyak ubat yang perlu saya ambil?
- ▶ Apakah yang perlu saya lakukan sekiranya mengalami kesan sampingan?



## 3 TAMBAH ubat

- ▶ Adakah perlu untuk saya mengambil ubat-ubatan yang lain?
- ▶ Adakah ubat ini boleh bertindak balas dengan ubat-ubatan saya yang lain?



## 4 NILAI kesesuaian ubat

- ▶ Berapa lama saya perlu mengambil setiap ubat?
- ▶ Adakah saya mengambil mana-mana ubat yang tidak saya perlu?



## 5 HENTI ambil ubat

- ▶ Bilakah saya perlu berhenti mengambil ubat?
- ▶ Sekiranya saya mengalami kesan yang tidak diingini dan terpaksa berhenti mengambil ubat, di mana saya perlu melaporkannya?



Keselamatan Pengubatan Tanggungjawab Semua



Program Perkhidmatan Farmasi  
Kementerian Kesihatan Malaysia  
[www.pharmacy.gov.my](http://www.pharmacy.gov.my)



# 5 Moments for Medication Safety

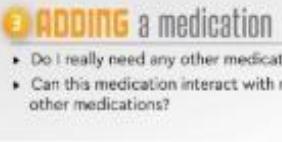
## 1 STARTING a medication

- ▶ What is the name of this medication and what is it for?
- ▶ What are the risks and possible side effects?



## 2 TAKING my medication

- ▶ When should I take this medication and how much should I take each time?
- ▶ What should I do if I have side effects?



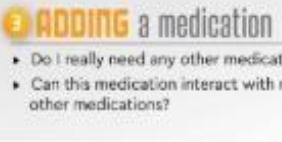
## 3 ADDING a medication

- ▶ Do I really need any other medication?
- ▶ Can this medication interact with my other medications?



## 4 REVIEWING my medication

- ▶ How long should I take each medication?
- ▶ Am I taking any medications I no longer need?



## 5 STOPPING my medication

- ▶ When should I stop each medication?
- ▶ If I have to stop my medication due to an unwanted effect, where should I report this?



Medication Safety is Everyone's Responsibility

Pharmaceutical Services Programme  
Ministry of Health, Malaysia  
[www.pharmacy.gov.my](http://www.pharmacy.gov.my)



# Posters

## 3 Langkah Bijak Sebelum Memberi Ubat Kepada Pesakit

### 1 KENALI

Fahami ubat yang akan diberikan.

### 2 SEMAK

Pastikan 5 perkara ini betul:

- Pesakit
- Ubat
- Dos
- Cara pengambilan
- Masa

### 3 TANYA

Pastikan pesakit faham tentang pengambilan ubat.



Keselamatan Pengubatan Tanggungjawab Semua

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## 3 Langkah Bijak Semasa Mengambil Ubat Di Kaunter Farmasi

### 1 KENALI

Ambil tahu ubat yang diterima

### 2 SEMAK

Pastikan 5 perkara ini betul:

- Nama pada label adalah nama anda.
- Ubat adalah untuk penyakit yang dihidapi.
- Dos yang diberikan adalah betul.
- Cara pengambilan adalah difahami.
- Masa pengambilan adalah betul.



### 3 TANYA

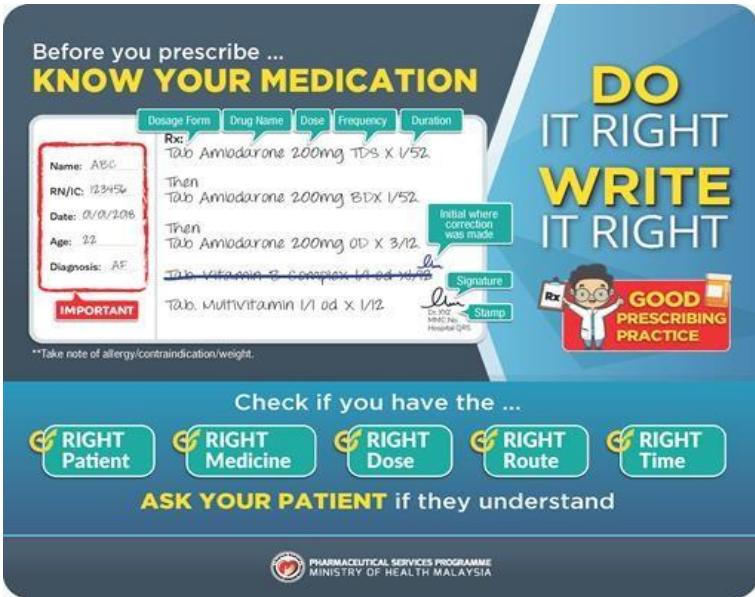
Jika terdapat PERTANYAAN berkaitan ubat, sila berbincang dengan doktor atau pegawai farmasi.

Keselamatan Pengubatan Tanggungjawab Semua

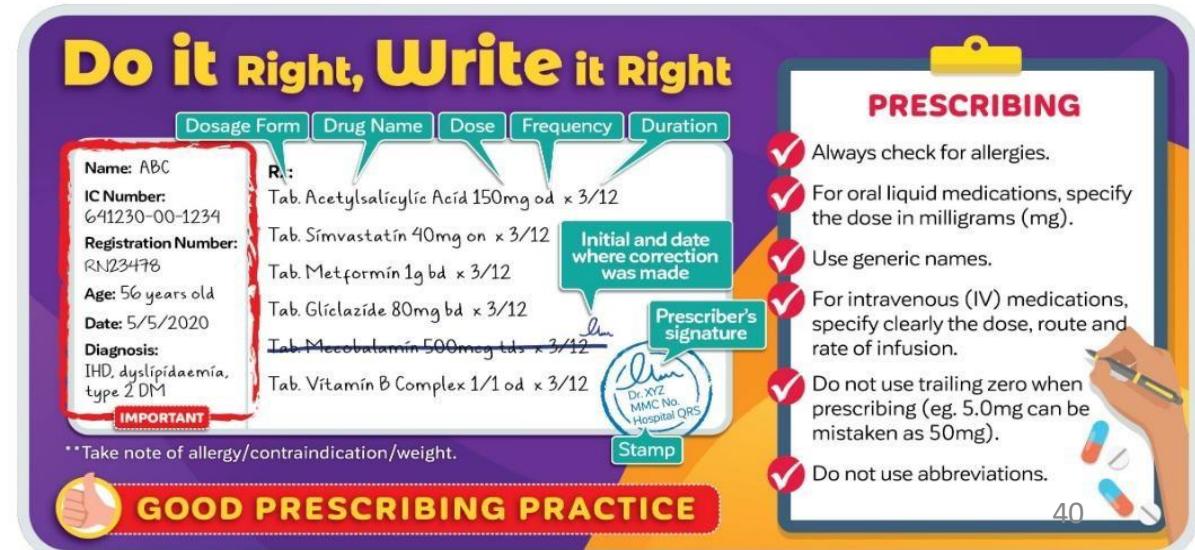
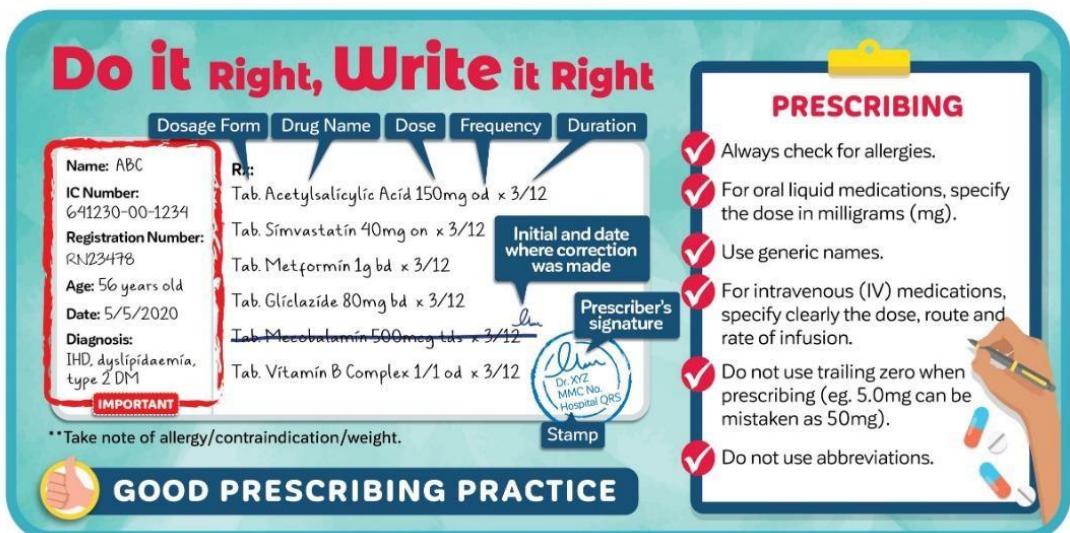
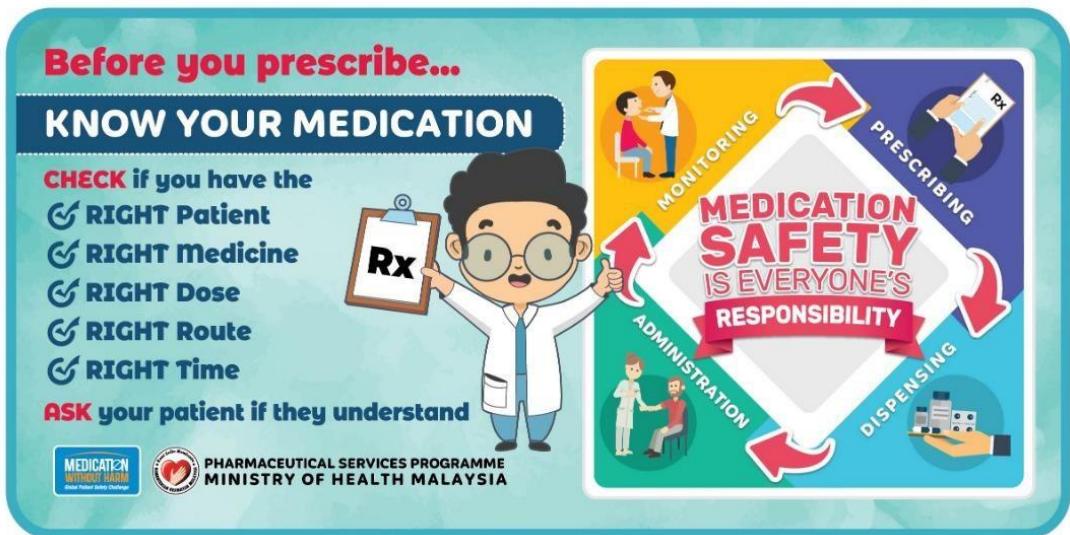
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# Mouse Pad



# Prescribing Notes



# Fridge Magnet



# Exhibition



# Seminars



# Newsletter – Medication Safety Alert

This Medication Safety Alert is for circulation to healthcare personnel only.

**MEDICATION SAFETY ALERT  
ISSUE 1 2019**

## ACCIDENTAL INJECTION OF POTASSIUM CHLORIDE INSTEAD OF DEXTROSE 50%

By Pharmaceutical Services Programme, Ministry of Health

**CASE SCENARIO**

A 50-year-old man was diagnosed with Ischemic Heart Disease(IHD) and admitted to the hospital for further monitoring. He complained of difficulty in breathing, vomiting, fatigue and leg pain.

Upon admission, the doctor prescribed the patient with intravenous Dextrose 50% to be administered via slow bolus injection. Preparation for medication administration was conducted by a nurse.

At the start of medication administration by the doctor, the patient cried out in pain. The injection was stopped and the doctor immediately counter checked the medication given.

Patient's condition worsen and died on the 3<sup>rd</sup> day after a few series of CPR.

**THE AMPOULE THAT WAS THOUGHT TO BE DEXTROSE 50% WAS ACTUALLY POTASSIUM CHLORIDE INJECTION**

**ROOT CAUSE:**

Both the Potassium Chloride injection and Dextrose 50% were stored next to each other in the medication shelf without any additional cautionary label.

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**MEDICATION SAFETY ALERT ISSUE 2/2019**

### MEDICATION ADMINISTRATION ERRORS (MAEs) : A RISK TO PATIENT SAFETY

Medication errors may occur at various stages of care such as prescribing, transcribing, dispensing, administering and giving. However, **ADMINISTRATION** process is the link in the safe medication administration where an **ERROR CAN REACH THE PATIENT**. Thus, all healthcare professionals should be more cautious during medication administration because any occurring error may lead to the risk of causing harm to the patient. The impact of medication errors on patients may range from minor to catastrophic.

A medication administration error (MAE) is defined as "any difference between what the patient received or was supposed to receive and what a prescriber intended in the original order". In medication administration can occur failures in any of the **5 RIGHTS** (Right Patient, Right Medication, Right Dose, Right Route and Right Time).

**Top 3 MAEs**

- 1. Omission Error
- 2. Incorrect Drug
- 3. Incorrect Dose

Source: Medication Error Reporting System, 2017

**Examples of MAEs**

**INCORRECT DOSE**

IV Morphine 10mg STAT was administered to the patient instead of 1mg STAT without proper counterchecking before administration.

**INCORRECT ROUTE OF ADMINISTRATION**

Patient was prescribed with IM Pethidine 50mg STAT for her pain. However, the drug was mistakenly given intravenously.

**INCORRECT DRUG**

Cefaclor was administered to patient instead of IV Cefazolin without counterchecking the label on the syringe.

**INCORRECT TIME OF ADMINISTRATION**

Digoxin was given as daily dose instead on a single STAT dose.

**INCORRECT PATIENT**

Tazocin (Tazobactam) was administered to the wrong patient without verifying the patient's name with the medication chart and the patient's wristband.

**OMISSION ERROR**

Mupirocin nasal ointment was prescribed and supplied to patient for MRSA decoloniser but the medication was not served to patient in ward.

This Medication Safety Alert is for circulation to healthcare personnel only.

**MEDICATION SAFETY ALERT ISSUE 3/2019**

### SAFETY REMINDER on the use of CHLORAL HYDRATE

Let me tell you something about me.....

I am **CHLORAL HYDRATE MIXTURE**

I can be given orally or rectally for preoperative sedation. However, watch out for possible side effects such as respiratory distress and arrhythmias.

**Report Submitted to MERS (2017 – 2018)**

**3 incidents**

Related to the use of chloral hydrate have been reported to Medication Error Reporting System (MERS).

0% of the errors occurred during the medication administration process.

% of the incidents caused HARM to the patient.

**TYPES OF MEDICATION ERRORS**

- Dose Error**
  - Prescribe/ administer wrong dose due inaccurate body weight or incorrect calculation
  - Supply wrong strength
- Route of Administration Error**
  - Administered intravenously instead of orally
- Unauthorized Drug Error**
  - Wrong drug prescribed
  - Mixed up with other drug

Source: Medication Error Reporting System (MERS)

**Incident 1**

Patient was prescribed with Chloral Hydrate Mixture 500mg stat (kg) based on the body weight (kg) taken upon admission. Doctor in the MRI suite noted that the child appeared to be smaller than 12.16kg as documented. Apparently weighing scale was set at lb instead of kg.

**Safety Tips...**

Chloral Hydrate dose is calculated based on the body weight, please make sure you document it correctly and use the **CORRECT UNIT!**



# THANK YOU

## Acknowledgement:

1. Cawangan Penjagaan Farmaseutikal, BAPF
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## External Reviewers

1. Dr. Norkasihan Ibrahim (Deputy Dean, Faculty of Pharmacy, UiTM)

