The Best Practice Adopted to Mitigate Medication Errors

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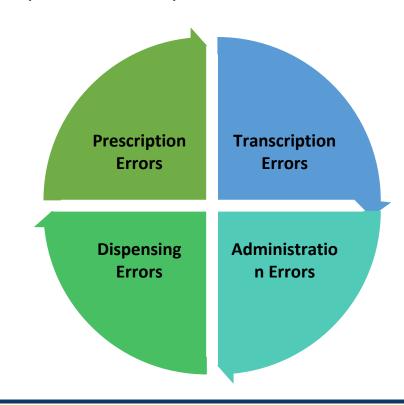


Introduction

Medication error is any preventable event that may cause or lead to inappropriate medication use or patient harm while medication is in the control of the health care professional, patient, or consumer.

Types of Medication Errors:

- Prescription errors
- Transcription errors
- Dispensing errors
- Administration errors







Problem Definition

The medication error rates in our hospital were high and we adopted different strategies. Though it showed a fall in error rates it was not sustainable. Hence it was essential to bring a sustainable and continuous error monitoring and capturing system.









Objective

To minimize overall medication error happening in ou hospital and make our facility a patient safe hospital.







Concept Note

For any system to be sustainable every one in the loop should have the feel that they are monitored at different levels.

Keeping the key point – patient safety in the center we structured an easily feasible system that will be sustainable and blame free.

We were able to bring down the error by adapting to our new system.







Methodology

Online reporting and yellow form system

From 1st of November 2021 a new system of reporting was adapted that was structured and framed by department of clinical pharmacology and Quality department.

The reporting system had 2 parts

- 1) An online link.
- 2) A yellow form.







Online reporting

The online link had all possible medication errors mentioned on it so it can be easily opened and ticked and had an option to attach picture.

The link is being generated by the department of clinical pharmacology, and is circulated to everyone involved in patient care.

- Doctors including senior consultants.
- Nurses .
- > Physician assistants.
- > Pharmacist / Clinical Pharmacist
- > Respiratory therapist and other paramedical staffs.





VIJAYA MEDICAL & EDUCATIONAL TRUST Medication Chart Review Checklist July 2602 Medication Chart Review Checklist Alternative floor	Dispensing Error Wrong drug dispensed Wrong dose dispensed Wrong formulation dispensed Expired/near expiry drugs dispensed Nor errong labelling Delay in dispense > defined time Generic or class substitute done without consultation with the prescribing doctor	Outcome of the event." A.) Event have potential to cause harm B.) Error did not reach patient. C.) No Harm D.) No Harm but requires monitoring E.) Temporary Harm requiring treatments F.) Temporary harm requiring thospitalization G.) Permanent Harm H.) Near Death Event
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Date of Audit * Date of Audit *	☐ Wrong patient ☐ Dose omission	Possible Causes & Contributing Factors " Lack of Knowledge/Experience
Prescribing Error Incorrect drug selection No/ Wrong dose No/ Wrong Unit No/ Wrong Frequency No/ wrong Route No/ Wrong Concentration No/ Wrong rate of administration	Improper dose Whong drug Whong dosage form Whong route of administration Whong rate Whong duration Whong time*	Stepbie Prescription Look alike/ Sound slife medication Writing Labeling? Instruction Use of abbreviations Unevaliable patient information Press, nour Miscommunication Failure to Achere to work procedure
	incomplete / Improper documentation by nursing staff** Documentation without administration Other. Did the error reach the patient? * Yes No	Interventions * Administrate anticote Changed to Correct drug/scele/trequency Boucation: Training Phonoed Communication process improved Informed to staff who made entar Policy/Procedure changed: Instituted. No action needed Cohes.





Yellow Form Reporting

Which will be raised by the department of clinical pharmacology based on the link alert reaching the department.

The yellow form is vital in monitoring the safety of all healthcare products.

Reports can be made for suspected Adverse Drug Reactions (ADR's) to all medicines including

- i. Vaccines
- ii. Blood factors and Immunoglobulins
- iii. All medical devices etc.,





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Report All Medication Errors Its blame free

What is medication error?

Medication error is defined as any preventable event that may cause or lead to inappropriate medication use or patient harm, while the medication is in the control of health care professional, patient or consumer. Such events may be related to professional practice, health care products, procedures and systems including prescribing, dispensing and administration.

Examples of medication errors

- Therapeutically incorrect order (drug / dose / frequency / route)
- Illegible / incomplete prescription
- · Abbreviations, improper use of decimal points (missing leading zero /unnecessary trailing zero)
- Noncompliance with order while dispensing / administration
- Use of deteriorated / expired products
- Catheter/ Tube misconnections while administering medications.

Why should I report?

Medication errors are an important preventable cause of morbidity and mortality. If errors are reported, corrective measures can be undertaken to prevent them. This will enhance the safety of the patients.

Moreover, medication error reporting is blame free.

Are there issues concerning the confidentiality of the patient / person committing error?

There are absolutely no issues regarding confidentiality as the identifier information or either the patient or the person committing the error need not be reported. The details of the reporter are optional and when furnished, will be kept confidential.

What to report?

All medication errors should be reported. Even potential errors (events that have potential to cause error) can be reported. A few examples of medication errors are given above.

Please do remember that there is no blame and you can report any medication error committed by anyone.

Who can report?

Any health care professional (doctors, nurses, pharmacists and allied health care professionals) can report medication errors.

When to report?

Whenever you come across a medication error, committed by self or anyone, you can report. There is no strict timeline within which it should be reported. But it is advisable to report immediately.

How to report?

Please fill in the medication error reporting form completely (details of reporter is optional) and hand it over to Department of Clinical Pharmacology. The medication error reporting forms are freely available in all wards /critical care/ Pharmacy.





- When any of the health care worker come across any type of medication errors or tubing misconnections they can open the link and enter the error immediately.
- Whenever possible we advice them to attach a picture along.
- ❖ The error will be notified immediately in the backend and the department will analyze the error.
- The department will raise yellow form on the individual who have committed the error.
- The clinical pharmacology team will educate the individual on the seriousness and get his initials on the form.
- If any health care worker commit an error for 3 times or more they will be made to attend a training session on safe medication practices (happening every month for all new employees).

Notes:

- ✓ All the errors will be closed and rectified in maximum 2 hours time.
- ✓ Serious errors will be addressed at the point of generation of link.

Dispensing errors for example

✓ Failure in maintenance of cold chain while transferring drug from pharmacy to ward or while returning it from ward to pharmacy will be discarded and the staff involved will be paying the compensation for the loss.



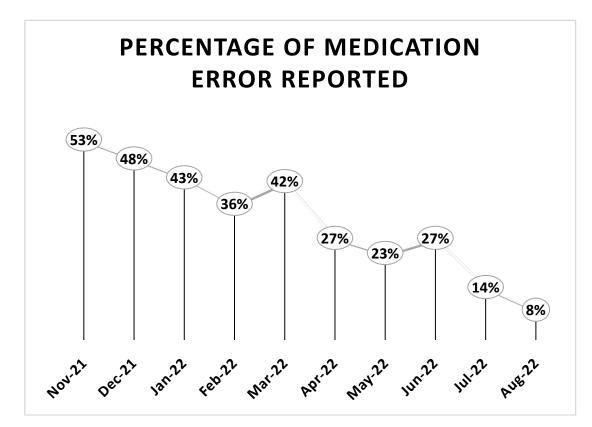


Tangible Results

The reporter stays anonymous. Only the backend team knows about the reporter.

The healthcare workers are aware that they are monitored at different levels pertaining to drug safety hence they are careful right from prescribing, dispensing, administering to monitoring the patient. At the level of pharmacy and wards every one is cautious on drug storage too.

Our medication error rates declined from 53% to 8% over a period of 9 months and the decline is sustained.







Intangible Results

- ❖ All the healthcare workers across the hospital involved in patient care is aware of the medication errors and it's consequences.
- This awareness of the existing mechanism have directly given an emphasis on medication safety aspect and we have imbibed it as a part of our culture.





Educating on Medication Errors





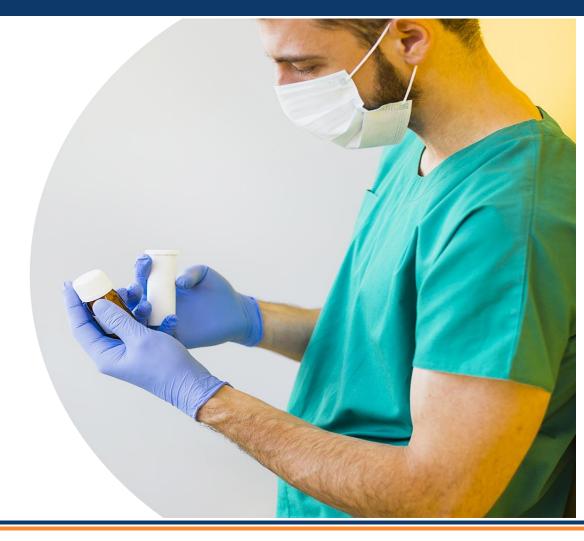






Conclusion

- ✓ We find this system highly effective and easily adoptable in any hospital as a patient safety initiative and the tool is blame free and efficient.
- ✓ This helps in providing an impact on quality care of the patient.
- ✓ Improves public health.







Acknowledgment

We would like to thank the management, Quality Department The Department of Clinical Pharmacology and IT team for putting forward the new ideas that helps in improving the patient Safety.







Any Questions







Thank You!

