

National Medication Safety Officer – NHS Improvement
Medicine Optimisation Pharmacist – The Practice Heart of Hounslow
ahmed.ameer@nhs.net

@Ameer_MSO March 2018

Learning Outcomes

Definitions of medication error terminologies
Nature of medication errors
Incidence & frequency of medication errors
Severity of harm associated with medication errors
Causes of medication errors
Reporting of medication errors



Medication errors are any patient safety incidents (PSIs) where there has been an error in the process of prescribing, preparing, dispensing, administering, monitoring or providing advice on medicines. These PSIs can be divided into two categories; errors of commission or errors of omission.

(NHS England, Patient Safety Alert March 2014)

ERROR

Unintentional Preventable





Prescribing



Dispensing



Administration



Monitoring



Advice



Healthcare Professionals **Patients** Consumers



>£750 million/year costs: Litigation Hospitalisation Resources



Medication safety in the NHS



of people over 70 years old take five or more medicines. With an ageing population and multiple chronic medical conditions these numbers will just keep increasing



non-elective hospital admissions are due to medicines



5 classes of medicine account for most admissions

Antiplatelets Diuretics Antihypertensives







dispensing errors





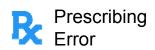




preventable deaths across all acute hospitals are due to medicines



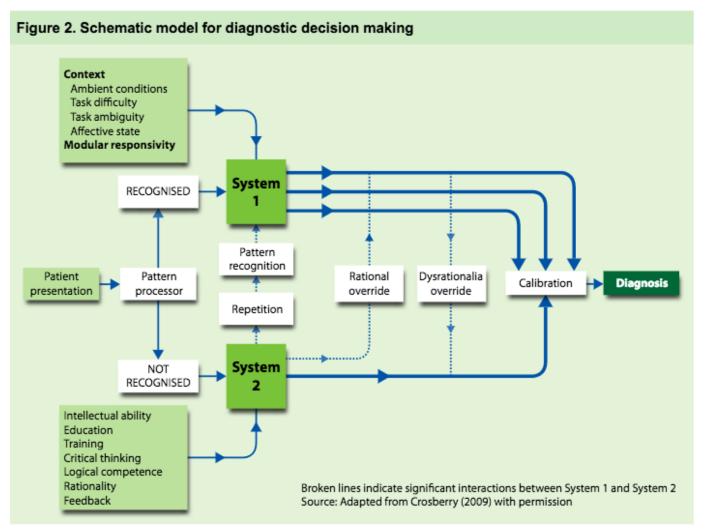
97% of medication errors reported to the NHS result in no or low patient harm



"A <u>clinically meaningful</u> prescribing error occurs when, as a result of a prescribing <u>decision</u> or prescription writing <u>process</u>, there is an <u>unintentional</u> significant (1) <u>reduction</u> in the probability of treatment being <u>timely and effective</u> or (2) increase in the <u>risk of harm</u> when compared with generally accepted practice." Dean, Barber & Schachter. Qual Health Care. 2000 Dec; 9(4): 232–237.

Any examples of an error/near miss you made in practice?

How did you deal with it? How did it effect your practice?



Reprinted from Croskerry P. Context is everything or how could I have been that stupid? Healthc Q. 2009; 12:e171-6.

Figure 3. Four stage conscious competence model of learning System System Consciously incompetent Unconsciously Consciously incompetent competent System System Unconsciously competent

A Competency Framework for all Prescribers

Publication date: July 2016 Review date: July 2020



NIGE has accredited the process used by the Royal Pharmaceutical Society to produce its professional guidance and standards. Accreditation is valid for 5 years from 17 February 2017.

For full details on NICE accreditation visit; www.nice.org.uk/accreditation

















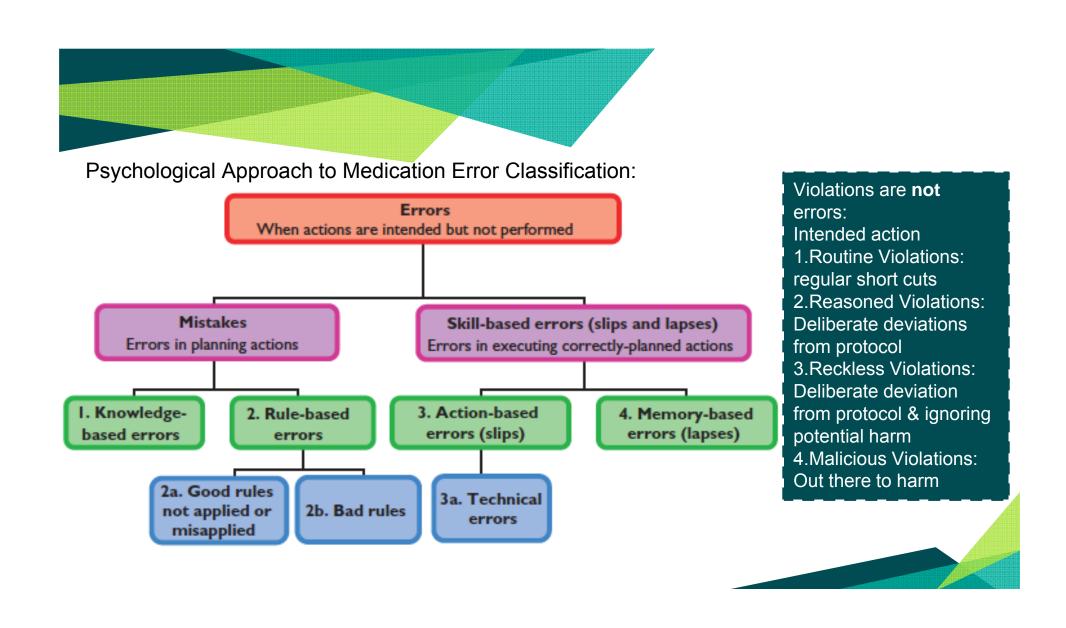




PRECRIBING GOVERNANCE (COMPETENCIES 7-10)

7: PRESCRIBE SAFELY

- 7.1 Prescribes within own scope of practice and recognises the limits of own knowledge and skill.
- 7.2 Knows about common types and causes of medication errors and how to prevent, avoid and detect them.
- 7.3 Identifies the potential risks associated with prescribing via remote media (telephone, email or through a third party) and takes steps to minimise them.
- 7.4 Minimises risks to patients by using or developing processes that support safe prescribing particularly in areas of high risk (e.g. transfer of information about medicines, prescribing of repeat medicines).
- 7.5 Keeps up to date with emerging safety concerns related to prescribing.
- 7.6 Reports prescribing errors, near misses and critical incidents, and reviews practice to prevent recurrence.



What can go wrong when prescribing?

Adverse drug reaction (when used as intended)

Contra-indication to the use of the medicine in Wrong route relation to drugs or conditions

Mismatching between patient and medicine

Omitted medicine / ingredient

Patient allergic to treatment

Wrong / omitted patient information leaflet

Wrong / omitted verbal patient directions

Wrong / unclear dose or strength

Wrong drug / medicine

Wrong formulation

Wrong frequency
Wrong quantity
Wrong route



Causes of Medication Errors

Communication Failures: poor handwriting, oral communication only, missing or misplaced zeroes, use of abbreviations, ambiguous or incomplete prescriptions

Similar drug names or presentation (look alike sound alike)

repeat prescribing and dispensing without monitoring

Complex diseases or treatment plans

Patients with chronic conditions

Workplace problems: Stress, team, design, workload and satisfaction

Level of staffing

Level of experience

Complex or poorly designed technology, devices or procedures

Calculation errors

Lack of information to prescribers, dispensers or patients

Lack of patient's understanding of their therapy

Frequent patient transition of care

Lessons from reported Patient Safety Incidents

So far, PSIs indicate NMPs are not associated with serious harm, congratulations

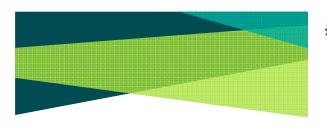
Clearly there are processes supporting NMPs that lead to errors and need addressing

.... worrying issue of prescribing/administering POMs without authority

Need of National Medication Safety Network

Increase of patient safety incident reporting to the National Reporting and Learning System (NRLS)

Change of organisational structure. Transfer of patient safety function from National Patient Safety Agency to NHS England (commissioning body) in 2011 Change of adverse drug reaction (ADR) definition to include medication error (EU Directive 2010/84/EU1)
Low reporting from non-acute NHS providers
Report quality Vs. National Learning









Patient Stage Three: Directive Improving medication error incident reporting and learning 20 March 2014

Alert reference number: NHS/PSA/D/2014/005 Alert stage: Three - Directive

NHS England and MHRA are working together to simplify and increase reporting, improve data report quality, maximise learning and guide practice to minimise harm from medication errors by:

- sharing incident data between MHRA and NHS England reducing the need for duplicate data entry by frontline staff; providing new types of feedback from the National Reporting and Learning System (NRLS) and MHRA to improve learning at local level:
- darifying medication safety roles and identifying key safety contacts to allow better communication between local and national levels; and
- setting up a National Medication Safety Network as a new forum for discussing potential and recognised safety issues, identifying trends and actions to improve the safe use of medicines. The network will also work with new Patient Safety Improvement Collaboratives that will be set up during 2014.

The Yellow Card Scheme for reporting suspected adverse drug reactions to the MHRA will continue to operate as

Actions (Target date for completion 19 September 2014)

All large* healthcare providers including NHS Trusts, community pharmacy multiples, home healthcare companies and those in the independent sector should:



identify a board level director (medical or nursing supported by the chief pharmacist) or in community pharmacy and home health care, the superintendent pharmadst, to have the responsibility to oversee medication error incident reporting and learning;



identify a Medication Safety Officer (MSO) and email their contact details to the Central Alerting System (CAS) team. This person will be a member of a new National Medication Safety Network, support local medication error reporting and learning and act as the main contact for NHS England and MHRA; and,



/3\ identify an existing or new multiprofessional group to regularly review medication error incident reports, improve reporting and learning and take local action to improve medication safety.

Small* healthcare providers including general practices, dental practices, community pharmacies and those in the independent sector should:

continue to report medication error incidents to the NRLS using the e-form on the NRLS website, or other methods and take action to improve reporting and medication safety locally, supported by medication safety champions in local professional committees, networks, multiprofessional groups and commissioners.

Healthcare commissioners including Area Teams, and Clinical Commissioning Groups are invited to:



identify a MSO and email their contact details to the CAS team. This person will be a member of the National Medication Safety network, support reporting and learning and take local actions

to improve medication safety. The MSO can also use learning to influence policy, planning and commissioning as part of dinical governance in the commissioning organisation;

/6\ regularly review information from the NRLS and the MHRA to support improvements in reporting and learning and to take local action to improve medication safety. This should done by working with medication safety champions in local professional committees and networks, and with a new or existing multi-professional

Supporting information

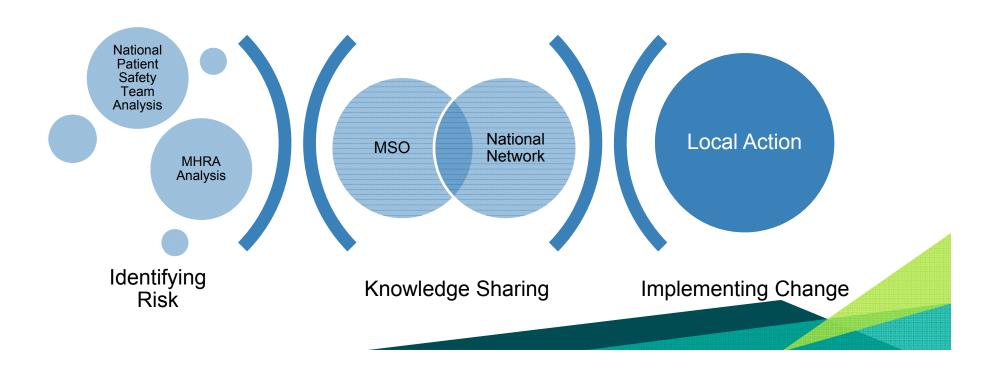
*More detailed information to support the implementation of this guidance is available at:

www.england.nhs.uk/patientsafety/PSA

Patient Safety | Domain 5 www.england.nhs.uk/patientsafety

Contact NHS England: patientsafety.enquiries@nhs.net Contact MHRA: phermacovigilanceservice@mhra.gsi.gov.uk

Vision of National Medication Safety Network



How can NMP be involved?

Sign up to alerts from the Central Alerting System (CAS) or your local clinical governance email notifications

Get in touch with your MSO
Be vigilant to alerts from

ePrescribing systems

Take part in medication safety projects and quality improvement programs

Know your competencies

Know your weaknesses for error

If you don't know ask

Try and focus on what is relevant to

your practice for your patients

Reflect on practice and learn from

mishaps

Report incidents to encourage

learning

Look out for the World Health

Organization Medication Safety

Challenge

Patient Safety Tools

High risk drug audits
Steroid card
Lithium card
NOAC/DOAC
Anticoagulant Yellow Book
Insulin Passport
Medicine Passport
Hospital Admission Notifications
Discharge Letters
Updated Summary Care Record

Blood monitoring requirements
& results interpretations
VTE assessments &
therapeutic Vs prophylactic
doses
Medication Safety thermometer
Therapeutic area dashboards

Conclusion

Medication errors are serious and diverse
Must have prevention strategies to ensure
medication errors are minimised
Find ways to reflect and assess competency
Get in touch with your medication safety lead

