

Patient Safety Incidents Cost in the NHS

- •Around 11% of hospital admissions, or 850,000 per year
- •May cost around £1 billion/year in hospital stay alone
- •Average 8.5 extra bed days attributable to incidents
- $\bullet \text{More than £400 million clinical } \underline{\textbf{negligence}} \text{ settlements each year}$
- •Medication related incidents account for 10 20% of all

From April 1 2015 to 31 March 2020 NHS Resolution received 1.420 claims relating to errors in the medication process. Of those claims,

487 claims settled with damages paid, costing the NHS £35 million

(excluding legal costs).

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Examples of medication errors

- · Omissions/delay without a clinical rationale
- Wrong drug, dose, formulation, frequency, route, time, dose interval, advice, information
 Not following 'warning' advice when administering
- Administration of a drug to which the patient has a known allergy
 Administration without a valid prescription
- · Patients administered an out of date medicine
- Medication administered to the wrong patient
- · Medication incorrectly prepared / reconstituted
- Incorrect infusion rate
 Inappropriate administration of "prn" medicines
- Not monitoring Wrong storage

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Top 10 errors

- An analysis of 64 prescribing incidents in 2017 that caused death and serious harm, and were reported to the NHS National Reporting and Learning Services, revealed that 24 (37.5%) of these incidents involved prescriptions for medicines that were **omitted and delayed**.
- Oral warfarin, the newer direct-acting anticoagulants, injected heparin and low-molecular-weight heparins have all been involved in reported prescribing error incidents that have caused death and serious harm
- Opioid medicines include diamorphine, morphine, codeine, fentanyl, oxycodone and methadone. More than 450 patients died after being prescribed opioid medicines unsafely at Gosport War Memorial Hospital and opioid analgesics are associated with the development of tolerance and, in some cases, dependence.

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- According to NHS Digital, almost a third of inpatients with diabetes experience a medication error during their hospital stay.
- Non-steroidal anti-inflammatory drugs (NSAIDs) are responsible for 30% of hospital admissions for ADRs, mainly owing to bleeding, heart attack, stroke and kidney damage.
- A variety of drugs, including angiotensin-converting enzyme inhibitors, clozapine, digoxin, gentamicin, lithium, loop diuretics, clozapine, methotrexate and mirtazapine, require regular blood test monitoring.

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Top 10 errors

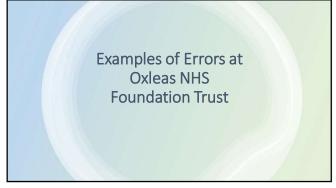
- Each year, patients with known and documented allergies to medicines are exposed to them and suffer preventable adverse events. Adverse reactions to penicillin have been reported in up to 5.0% of individuals on a given course of treatment
- Drug interactions can reduce the efficacy of a drug or increase the adverse
 effects of a drug. Pharmacists and healthcare professionals need to
 recognise and understand which drug interactions can result in significant
 patient harm.
- Loading doses are complex to prescribe because they require multiple-step calculations using information about the patient, their medicine and any frequent changes of dose, or frequency of administration. Loading doses may be miscalculated, additional doses continued in error, maintenance and loading doses prescribed at the same time, or loading or maintenance doses may not be prescribed

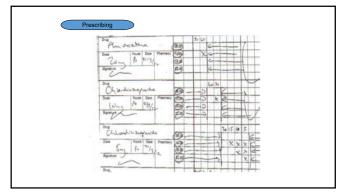
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Top 10 errors

 Oxygen should be regarded as a drug. It is prescribed for hypoxaemic patients to increase alveolar oxygen tension and decrease the work of breathing. The concentration of oxygen required depends on the condition being treated; the administration of an inappropriate concentration of oxygen can have serious or even fatal consequences.

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Olanzapine depot 105mg two weekly

• What was available:

• Olanzapine depot 210mg which contains one vial of powder for suspension + one vial of 3ml solvent + reconstitution and administration card

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Olanzapine depot 105mg two weekly • What should have happened: > 1.3ml of solvents hould have been used to reconstitute the powder and 0.7ml of this suspension should have been administered • What actually happened: > 0.65ml of solvent was used to reconstitute the powder and 0.7ml was administered Consequence: > patient received 210mg in 0.7ml instead of 105mg in 0.7ml

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Some more errors

- Administration of Depixol 400mg instead of 40mg
- Administration of Depixol instead of Risperidone
- Administration Clopixol instead of Paliperidone
- Administration of 44 units of insulin instead of 4 units
- Omission of antiepileptics, steroid
 Promazine/promethazine mix up
- Chloramphenical eye/ear drops mix up

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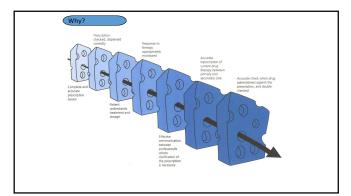


Why do administration errors occur?

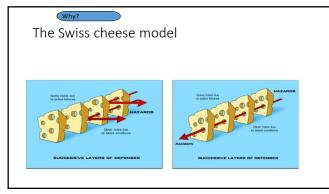
- Distractions
 Tiredness
 Inattention
 Time pressure
 illegible prescription
 Prescribing error
 Failure to check patient identity
 Miscalculation of dose
 Lack of knowledge

- Unsuitable or untidy equipment
 Drugs with similar names
 Orugs with similar packaging
 Medication labels or packaging are poor quality or damaged
 Understaffing/inexperience
 Poor systems

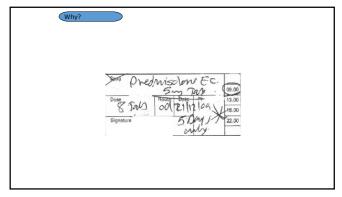
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How to manage errors and reduce rate

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Immediate Actions when Medication Error/Near Miss Identified

PATIENT'S SAFETY IS PARAMOUNT

- SPEAK TO A DOCTOR IMMEDIATELY review, assess, manage
- Inform senior nurse, manager, pharmacist/pharmacist on-call/ Medicines Information
- Document the error in RiO
- Ensure that an incident form is completed on Datix
- Call 999 if concerned about patients safety and unable to source medical assistance
 Inform Patient/Carer Duty of Candour

Reducing medication errors

As a team/trust

- Review processes
 Standardise procedures
 Insure procedures area yot follow
 Ensure staff have the correct tools for the job
 Provide adequate training all
 Improve enricommental factors
 Maintain a storage system and keep clinical areas clear
 Reduce distractions
 Improve communication
 Between patients, ward staff, and other teams
 Listen to feedback
 Ruild a safeky culture

- Listen to feedback
 Build a safety culture
 No blame
 Encourage error reporting
 Open and fair
 Incident decision tree
- Niewe a BNF a notebook readily available
 Follow procedures
 Understand implications of errors
 Work within own capabilities
 Competency training/assessed
 Communication
 Between patients, other staff and other teams
 Reporting errors
 Including near misses and omissions
 CPD
 CPD

Reducing environmental factors
Distractions
Tiredness
Keep clinical areas & storage tidy
An individual checklist
The 5 rights' is only the start
Be systematic & follow a routine
Have a BNF & notebook readily avail

Individually

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Reporting errors

Benefits include:

- Learning from incidents
- Transparency
- Support of the organisation
- Improvement of practice
- Increased safety

- Barriers include:

 No feedback
 Incident form is too long (only one page long now)
 Incident was trivial
 Ward to busy-forgot
 Don't want to get into trouble
 Worried about disciplinary action
 Was a near miss so don't see the point
 Incident reporting unlikely to lead to system changes
 Not confident form will be kept anonymous
 Not my responsibility to report somebody else's mistakes

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Tidy cupboard









