



## EAHP ACADEMY SEMINAR 30 Sept - 1 Oct 2016, Bucharest From Medicines Reconciliation to Medicines Optimisation

# Issues to consider linked with medicines review on the ward (UK)

- Patients' Own Drugs
  - Missed Doses
  - Anticoagulants
- Medication Safety Officer role

Jane Smith, Principal Pharmacist,
Development & Governance
NBT Medication Safety Officer (MSO) (UK)

## **Disclosure Statement**

"Conflict of interest: nothing to disclose"



## **Learning Objectives**

## Participants should be able to:

- Transfer principles of the use of Patients' Own Drugs
- Understand how to measure and highlight the issue of Missed Doses
- Understand how to measure and Reducing Harm from Anticoagulants
- Understand the role of the Medication Safety
  Officer (in England) and what principles can be
  transferred for local use in improving reporting
  of and reducing harm from incidences



## **SUMMARY QUESTIONS:**

#### Linked with the learning Objectives for today:

- Missed Doses impact on the outcome of Medicines Reconciliation and Medication review.
   True or false?
- Patients Own Drugs (in the UK) are a useful source for aiding Medicines Reconciliation and Medication review. True or false?
- The incidence of high INRs do not impact on Medication review. True or false?



## Who are we?

### **NBT - North Bristol**

RX.

Patient Safety: Medicines Management work stream









## **NBT Team**

#### **Medicines Governance Group**

Director of Pharmacy
Pharmacists
Matrons
Heads of Nursing
Consultants
Training Dept
Patient Panel Members

## **Executive Lead: Medical Director**

**Chris Burton** 

#### **Pharmacy**

Jane Smith
Alison Mundell
Julie Hamer
Natasha Mogford
Robert Brown

#### **Clinical Audit**

Frank Hamill
Calvin Turp
Rebecca Lewis

#### **Consultants / Doctors**

Arla Gamper Ruth Gillam James Calvert

#### **Nurses**

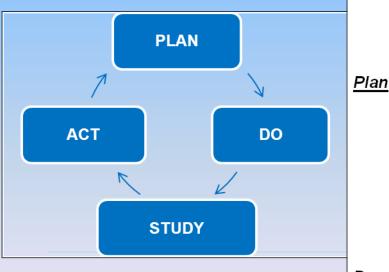
Lorraine Motuel
Andrea Scott



## **Quality Improvement Methodology**

Ongoing measurement





Do Describe what actually happened when you ran the test

Aim: (Overall goal you would like to reach)

Every goal will require multiple smaller tests of change
Describe your first (or next) test of change

List the tasks needed to set up this test of change

Predict what will happen when the test is carried out

<u>Study</u> Describe the measured results and how they compared to the predictions

Describe what modifications to the plan will be made for the next cycle from what you learned

Worksheet for Testing Change -

When to

be done

When to

be done

Measures to determine if prediction succeeds

Where to

be done

Where to

be done

Person

Person

Responsible

Responsible

Exceptional healthcare, personally de

Act

## Patients Own Drugs (PODs)– key drivers:

PODs are the medicines that a patient has been taking before admission to hospital — and can include Rx medicines, herbal, Over-the-counter etc.

- "Duthie report" (1988)
- "A Spoonful of Sugar" (2001)
- "Improving the use of medicines for better outcomes and reduced waste:

An Action Plan" (2012)



## Patients Own Drugs – actions:

- Phase 1: 1992–1996: Pharmacy based:
- Phase 2: 1997–2000: Ward based:
- Phase 3: 2001–2004: Medicines Management: trials:
- Phase 4: 2005–2014: MM: service spread

MM Technicians are trained in all aspects of the process:

- Patients/Carers interviewed about PODs and "PODs at home"
- Depending on the estimated LOS PODs are used on ward and in TTA
- All patients have bedside lockers links with self-administration

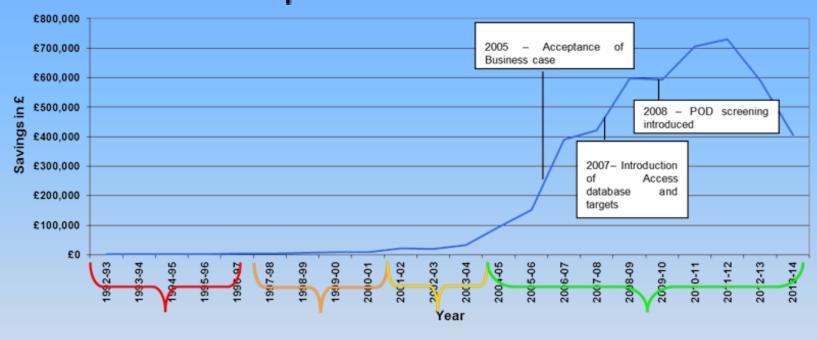
### Impact on Medicines review:

- Accurate info. on administration for prescribing
- Medicines available reduced missed doses
  North Bristol



## Patient's Own Drugs – run chart:

Patients Own Drugs Savings – North Bristol NHS Trust
April 1992 – March 2014



Phase 1: 1992 – 1996 – POD: Pharmacy processed (SMH only) Phase 2: 1997
- 2000 - POD:
Ward
processed
(SMH only)

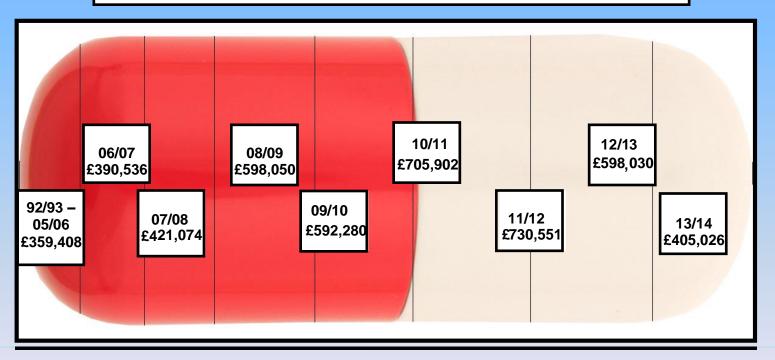
Phase 3: 2001 – 2004 – MM: trials (SMH)

Phase 4: 2005 – present time– MM: service spread (SMH + FR)



## Patient's Own Drugs – savings:

Patient Own Drugs Savings - North Bristol NHS Trust
Apr 1992 - Mar 2014
Total Savings - £4,800,859





## **Patients Own Drugs** – Poster:

## PATIENT'S OWN DRUGS ARE **IMPORTANT**

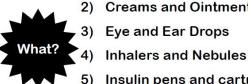
#### We need them in hospital

To Improve Patient Safety by:



- 1) Preventing delays in therapy
- Preventing missed doses
- Preventing errors in the medication history
- Understanding compliance issues
- Avoiding wasting valuable NHS resources

All Drugs Prescribed by the GP:



- 1) Tablets, Capsules and Liquids
- **Creams and Ointments**
- 3) Eye and Ear Drops
- Insulin pens and cartridges

6) Over the counter medication from the Pharmacy For example:





#### Contact

#### North Bristol NHS Trust

#### Bristol Royal Infirmary:

Developed by: A. Sweeney + J Hamer Date: 30th April 2010 Updated: March 2016

United Bristol Healthcare WHS

Approved by: J Smith + K Gibbs Review date: April 2011 Review date: March 2019

Tel: 0117 4142303

Tel: 0117 928 2053

North Bristol NHS

## Missed Doses - Definition:

"Missed Doses" are medication errors that occur when a medicine is not given to a patient when prescribed. They may cause harm to patients, lead to increased morbidity/mortality and inflate healthcare costs

Causes: a result of errors during the supply, prescribing, dispensing or administration of medicines in hospitals and in patients' home.

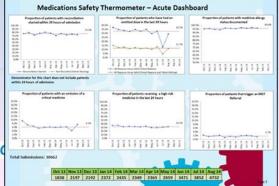
## Impact on Medicines review:

- To consider impact when reviewing prescribing

North Bristol NHS

## Missed Doses – key drivers:

- NPSA alert (2010): RRR009: "Reducing harm from omitted and delayed medicines in hospital"
- NPSA/NICE: Medicines Reconciliation guidance (2007)
- Medication Safety Thermometer (2013)
- Medicines Optimisation Dashboard (2014)





## Missed Doses – actions:

## Phase 1 (Pre 2014 "MOVE"):

- A training package and Laminated posters
- An e-audit tool
- Ward handover sheets
- Pink missed dose order slip/orange leaflet
- Focus group discussion

## Phase 2 (Post "MOVE"):

- Missed Doses Dashboard
- Admissions Medical Unit (AMU) audit
- Medication Safety Alert poster



# Missed Doses Medication Safety Alert poster





#### **MEDICATION SAFETY ALERT**

April 2015

#### "Missed Doses"

"Missed Doses" are one of the highest reasons for an incident report at NBT - and are medication errors which cause harm to patients.

#### Learning points:

- o On Admission / or when Prescribing:
  - Ensure Patients Own Drugs are used as part of the Medicines Reconciliation process. DO NOT send home.
  - Doctors Highlight changes to prescription charts to nursing staff
- o On Transfer
  - Ensure Patients Own Drugs and any Pharmacy supplies are transferred with the patient
  - Check availability of all drugs on the new ward
    - · Check Pharmacy endorsements on prescription chart
    - . Check stock list / drug cupboards / POD chute
  - Nurses report all missed doses on handover and follow up
- Administration
  - If not available document code 6 on chart and obtain drug
  - Once sourced, administer ASAP if safe to do so
  - After giving drug sign to avoid drug being given twice
- How to source a drug
  - o Check "Unable to find medication" posters on all wards
  - Bleep your ward Medicines Management Technician / Pharmacist
  - Order on a green Pharmacy item request slip
  - o If out of hours contact the CSM
- Monitoring "Missed Doses"
  - o Report all incidents on eAIMS safeguard
  - o Pharmacy monitor Missed Doses daily
  - Nurses ward data collection



#### For Action by: All medical staff, nursing and pharmacy staff

Allson Mundell, Clinical Team Manager

Julie Hamer, Senior Pharmacy Technician Medicines Management

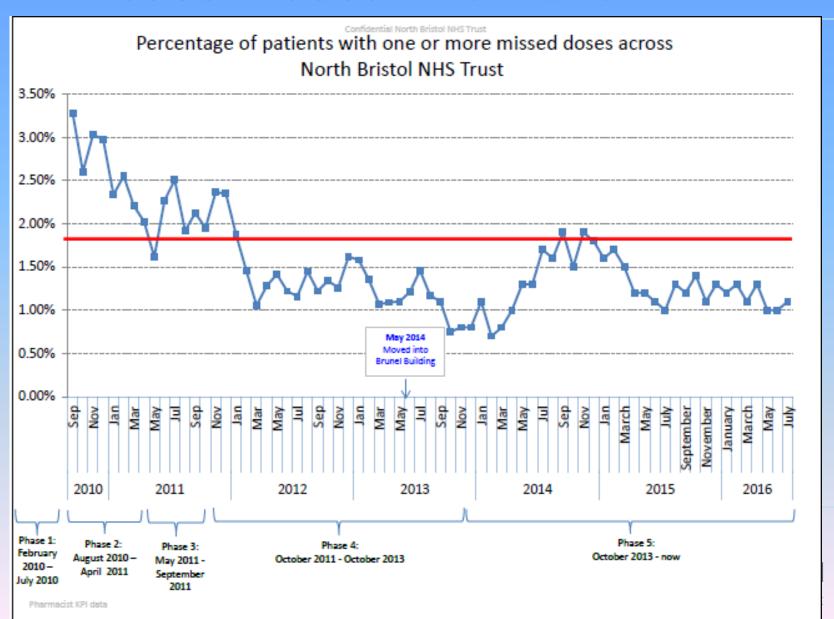
Dr Jarrod Richards, Consultant, Care of the Elderty

Sarah Dodde, Deputy Director of Nursing

Jane Smith, Principal Pharmacist and NBT Medication Safety Officer

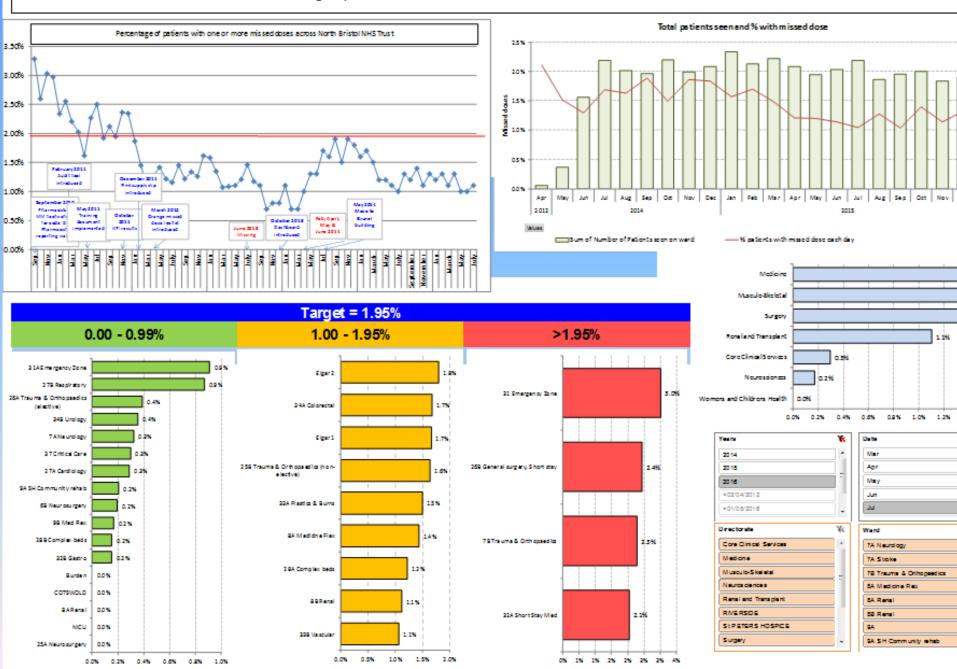
Version 1 Issued: 17<sup>th</sup> April 2015

## Missed Doses - run chart:





#### Percentage of patients with one or more missed doses across North Bristol NHS Trust: Jul 2016



## Warfarin – key drivers:

Warfarin is a high risk medicine. Patients with INR>6 are at exponentially increasing risk of bleeding.

#### **Drivers include:**

- •NPSA alert (2007) "Actions that make anticoagulation safer".
- •SPI2 set a target of reducing harm from anticoagulants by monitoring INRs>6. Impact on Medicines review:
- Accurate info. on administration for prescribing
- Potential drug interactions

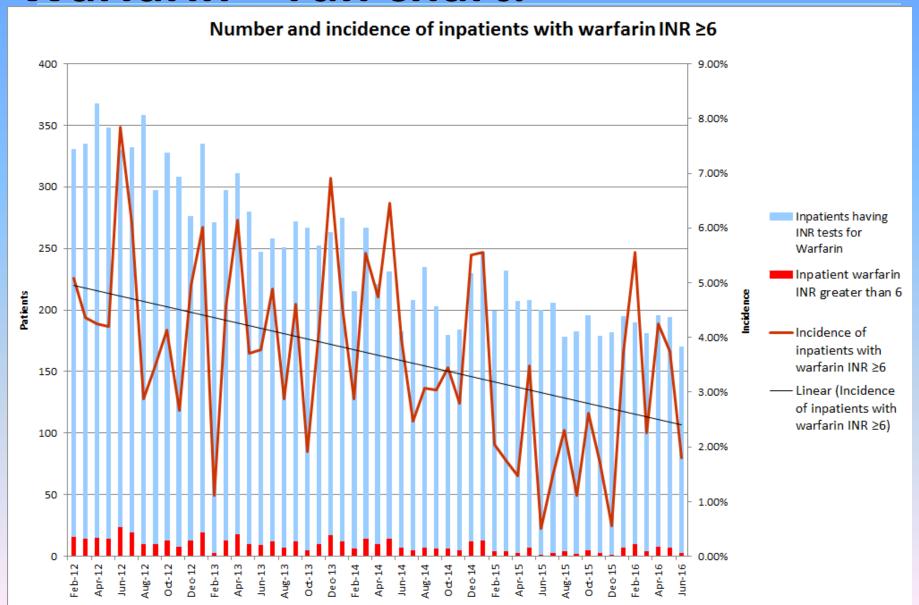


## Warfarin – actions:

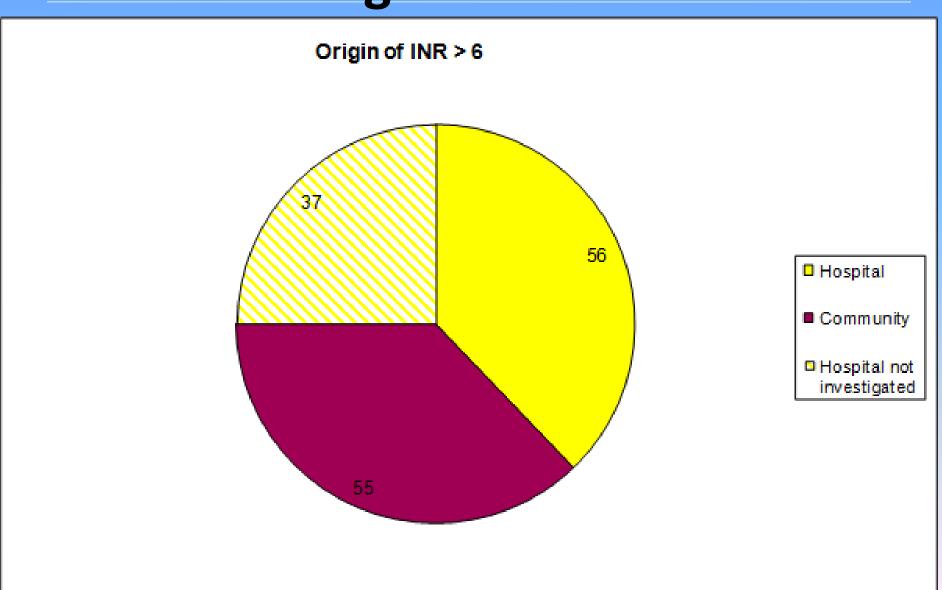
- Re-design the warfarin administration chart:
  - highlighting co-prescribing of interacting medication
  - adding prescribing hints
  - removing 10mg doses from low loading regimen
  - updating management of high INRs and bleeding
- Development of the mini-RCA tool
- Medical and nursing electronic learning packages
- Medication Safety Alert



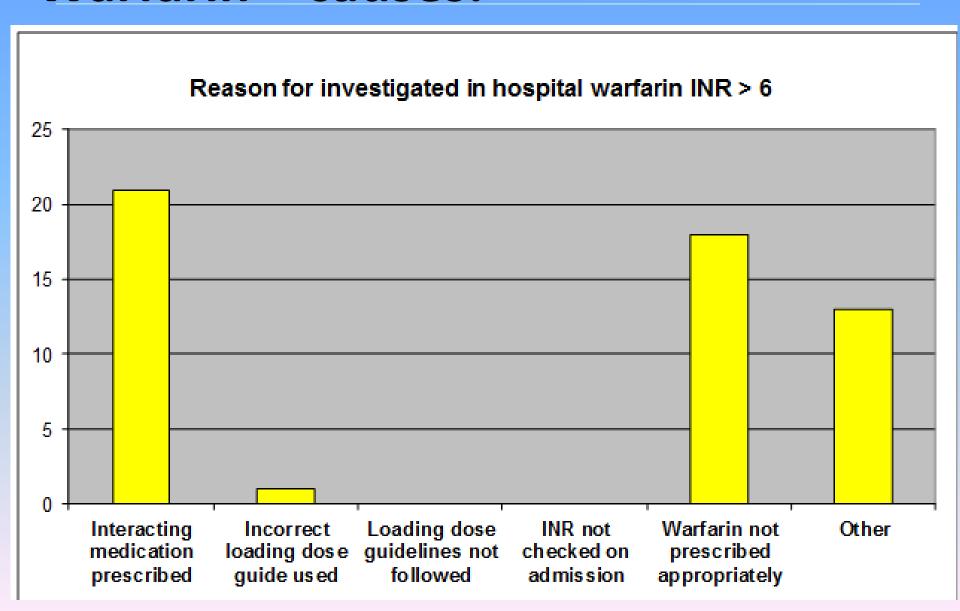
## Warfarin – run chart:



## Warfarin – origin of INR >6:



## Warfarin – causes:



## Role of MSO - National scene: England

NPSA (National Patient Safety Agency)- now NHS Improvement

#### National Alerts -

- 2001 2013: ... 40 alerts/ signals
- 2014 7 alerts 2015 7 alerts

#### **Actions** -

- Three-stage alerting system new "Patient Safety Alerts" (PSA's):
  - Stage 1: Warning action required in approx. 1 month

  - Stage 3: Directive— action required in approx. 6 months

## Regional Networks - "steal shamelessly!!" Impact on Medicines review: high risk drugs

e.g. fatalities from missed desmopressin North Bristol Exceptional healthcare, personally delivered

NHS Trust



## **NHS – Medication Safety**

## **Medication safety in the NHS**

Engiana



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

NSAIDs
Antiplatelets
Anticoagulants
Diuretics
Antihypertensives

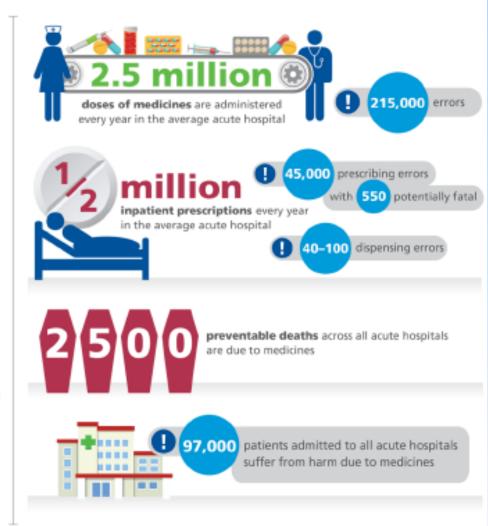


prescriptions are issued every year in primary care

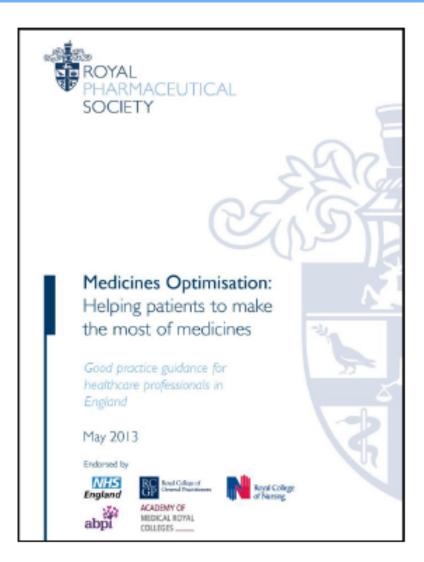


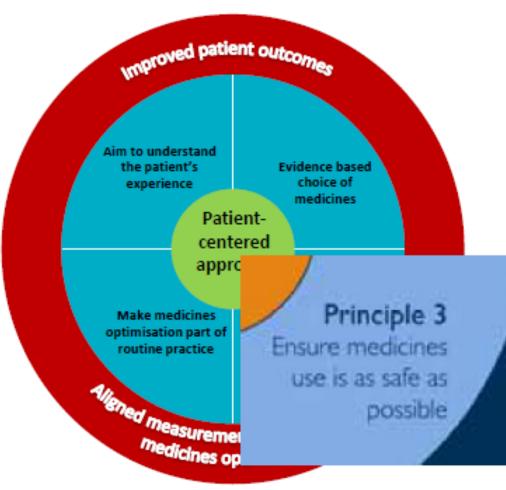
prescribing errors





## **NHS – Medication Safety**





All centred around measurement/metrics and outcomes

## NHS – MSO role









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:
- clarifying 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 normal

#### Actions (Target date for completion 19 September 2014)

All large\* healthcare providers including NH5 Trusts, community pharmacy multiples, home healthcare companies and those in the independent sector should:



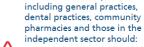
identify a board level director (medical or nursing supported by the chief pharmacist) or in community pharmacy and home health care, the superintendent pharmacist, to have the responsibility to oversee medication error incident reporting and learning;



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.



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

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

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

commissioners.



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 clinical governance in the commissioning organisation;



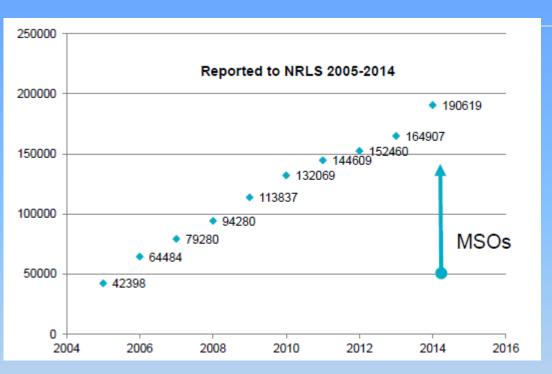
regularly review information from the NRLS and the MHRA to support improvements in reporting and learning and to take local action to improve medication safety. This should done by working with medication safety champions in local professional committees and networks, and with a new or existing multi-professional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

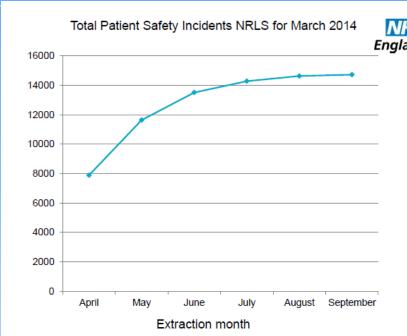
#### Supporting information

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

www.england.nhs.uk/patientsafety/PSA

## NHS - MSO impact and role





- gather evidence of a local learning culture
- 2. incrementally improve reporting and learning
- implement better, safer medication practice locally and nationally
- 4. work together as discrete groups on common topics
- be the formal conduit between NHS England Patient Safety and practice for medication safety issues



## NHS – MSO impact and role

## And coming up – implementation of....

Article 107a(5)of Directive 2001/83/EC outlines the key responsibilities of national competent authorities (MHRA) in relation to the reporting of ADRs associated with medication error:

• Member States shall ensure that reports of suspected adverse reactions arising from an error associated with the use of a medicinal product that are brought to their attention are made available to the Eudravigilance database and to any authorities, bodies, organisations and/or institutions, responsible for patient safety within that Member State. They shall also ensure that the authorities responsible for medicinal products within that Member State are informed of any suspected adverse reactions brought to the attention of any other authority within that Member State. These reports shall be appropriately identified in the forms referred to in Article 25 of Regulation (EC) No 726/2004.



## Role of MSO – NBT actions:

## **Medication Safety Subgroup**

Nurse / Doctor / Patient / Risk manager / MSO

## **Incidents reports**

Numbers of reports causing harm: Total number of reports

## Actions – internal alerts / SOPs / safety work streams

Work through Medicines Governance Group

## RCAs – pharmacy input

For all serious incidents – externally reported



## How are we sharing?

## **Presentations and Workshops**

- European Association of Hospital
   Pharmacists (EAHP) Academy Seminar
   Zagreb (September 2015)
- 20th Congress of the EAHP
  25-27 March 2015
  The hospital pharmacist's agenda
   patient safety first
  ONLINE ABSTRACT SUBMISSION
  AND
  CONGRESS REGISTRATION OPEN!
- EAHP Congress, Hamburg (March 2015)
- West of England Academic Health Science
   Network Annual Conference (October 2014)
- National Pharmacy Management Forum (London: Nov 2013 and Nov 2014)





## **Achievements UK Awards: Shortlisted**

- "HSJ Value Awards" (2016)
- "I love my Pharmacist"!! (2015)
- Pharmaceutical Care Awards (2015)
- HSJ Awards (2014)
- HQIP Awards (2014)
- LEAN Healthcare Academy Awards (2014)
- HSJ Patient Safety Award (2013)
- ■APTUK Awards (2014) Winner
- Clinical Pharmacy Congress (2014) Winner























- SPI2 support from experts/peers improvement methodology; "learn from others"; "share success" and "steal shamelessly"!!
- Continuous Measurement is ESSENTIAL
   "In God we Trust all others bring data!"
- "Buy-in" of staff // start with enthusiasts // leave laggards.
- Tempting to spread too quickly. Plan, continue to embed and gain support as the project evolves.



## **SUMMARY QUESTIONS:**

#### Linked with the learning Objectives for today:

- Missed Doses impact on the outcome of Medicines Reconciliation and Medication review.
   True or false?
- Patients Own Drugs (in the UK) are a useful source for aiding Medicines Reconciliation and Medication review. True or false?
- The incidence of high INRs do not impact on Medication review. True or false?

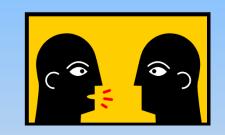








## Thank you - Any Questions? Jane.smith@nbt.nhs.uk



**NHS Trust** 



