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#### National Aseptic Error Reporting Scheme (NAERS)

#### Introduction

The NAER scheme has been running now since 2003. During this time there has been a deliberate choice not to review or update the scheme to allow current data to continue to be compared with historical data.

Recent discussions involving both the Pharmaceutical Aseptic Services Group (PASG) and the NHS Pharmaceutical Quality Assurance Committee (NHSPQAC) have led to the decision that despite the above expectations surrounding the reporting and investigation of errors have now moved on so that it is now necessary to review and relaunch the scheme to ensure that it remains relevant to current practice.

This has consisted of a review of the reporting categories and the associated reporting spreadsheet and a briefing document to clarify a number of long term points of confusion together with the reporting arrangements going forward.

#### Scope of the scheme

Data that should be reported into the scheme would not include prescription errors or those picked up at the clinical screening stage. It would start with the receipt of a screened prescription. So in this case the first possible point of error would be lack of authorisation to manufacture ie prescription received without having been screened.

The finish point for the error reporting scheme should be administration to the patient.

Dispensing errors associated with bought in products dispensed via the aseptic unit should be included.

Product defects in bought in products would not be (although these should be reported separately to AIC)

Data reported should include all errors and near misses between the start and end points defined above ie all non conformances in the process whether or not product affected or the incident has got to the next stage of the process. For example a selection error self detected and corrected by an operator before asking for a check would not be included but if it had been detected at the requested check by a second person it would be included.



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#### Reporting of Data

From July 2020 all error reports should be e mailed to:

#### sue.renn1@nhs.net

All reports must be accompanied by workload figures for the period that the reported data relates to

Workload figures submitted with data should show number of individual dose units made in the period and the number of bought in items dispensed

Data should be submitted either every month or every quarter.

Any queries related to the reporting of data should be addressed via:

#### http://www.pasg.nhs.uk/contactform.php

Unlicensed units are reminded that reporting of data into the scheme is a requirement of the EL audit process.

All units should be aware that reporting data into the scheme was mandated by the Toft report into the Vinorelbine incident and the Paediatric and Neonatal Chief Pharmacists Groups report into the safety of Parenteral Nutrition.

#### NAERS data and local reporting systems

NAERS is not intended to replace local systems which would include investigations, CAPA, trending and review etc. Rather NAERS allows data to be pooled on a national level and underlying trends and learning opportunites to be identified in a way that is not achievable with single site data. This data can be used locally to improve practice and benchmark

#### **Future developments**

Work will take place to investigate the feasibility of an online / web – based data entry system

This will include the development of a site profile questionnaire which each site reporting into the scheme will need to complete initially and which will include: staffing establishment, computer system and electronic prescribing system if used, types of staff for each task including product approval, in process checks, use of barcoding, number and grade of rooms, workstations type and number, types of product, licensed status, use of vial sharing etc?



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#### **Licensed Status**

- A Made under MS License
- B Made under Section 10
- C Bought in and dispensed
- D Clinical Trial

#### **Product Category**

- A Cytotoxic adult
- B Cytotoxic paediatric
- C Parenteral nutrition adult
- D Parenteral nutrition paediatric
- E Monoclonal Antibody
- F Other Aseptic Product

#### **Error Type**

B	
Prescription Errors	Assembly errors
A1 - Inaccurate prescription /	E1 - Incorrect drug assembled
transcription verification	
	E2 - Incorrect strength assembled
Worksheet preparation error	E3 - Incorrect quantity of drug vials
	assembled
B1 - Incorrect patient name	E4 - Incorrect formulation of drug
	assembled
B2 - Incorrect drug name	E5 - Incorrect diluent assembled
B3 - Incorrect dosage calculation	E6 - Incorrect strength of diluent
	assembled
B4 - Incorrect diluent	E7 - Incorrect quantity/volume of
	diluent assembled
B5 - Incorrect volume of diluent	E8 - Incorrect quantity of syringes
B6 - Incorrect batch number for product	E9 - Incorrect volume syringes provided
B7 - Error in logging batch number for	E10 - Filters not provided
product in batch book	
B8 - Incorrect directions for	E11 - Incorrect quantity of needles
administration	
B9 - Copy of label not attached	E12 - Incorrect quantity of alcohol
.,	wipes/swabs
B10 - Use of incorrect worksheet	E13 - Incorrect batch number for drug
	vials recorded on worksheet
B11 - Incorrect quantity of product	E14 - Incorrect expiry date for drug vials
recorded	recorded on worksheet
B12 - Signature of worksheet preparer	E15 - Incorrect batch number for diluent
omitted	vials recorded on worksheet
	E16 - Incorrect expiry date for diluent
	===



# **HPASG**

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	vials recorded on worksheet	
Label generation errors	E17 - Expired drug used	
C1 - Incorrect patient details	E18 - Expired diluent used	
C2 - Incorrect drug name	E19 - Signature of worksheet of staff	
	responsible for assembly	
C3 - Incorrect diluent name		
C4 - Incorrect drug strength		
C5 - Incorrect diluent volume	Product Preparation errors	
C6 - Incorrect quantity of product	F1 - Incorrect volume of drug used	
C7 - Missing/Incorrect dosage	F2 - Incorrect volume of diluent used	
information		
C8 - Incorrect Route	F3 - Incorrect method of preparation	
C9 - Incorrect batch number for product	F4 - Filters not used during preparation	
C10 - Missing batch number for product	F5 - Volume checks not conducted	
C11 - Incorrect directions for	F6 - Inappropriate volume checks	
administration		
C12 - Missing/Incorrect storage	F7 - Drug identity check not conducted	
information		
C13 - Incorrect expiry date / time	F8 - Product made on wrong day	
	/session /time fo session	
C14 - Incorrect preparation date	F9 - Powder not fully dissolved	
C15 - Missing warning/cautionary label	F10 - Incorrect volume added to	
	infusion bag	
C16 - Incorrect warnings/cautionary	F11 - Incorrect final volume in syringe	
labels		
C17 - Incorrect location details /ward	F12 - Incorrect container/ closure /	
	syringe used	
C18 - Incorrect quantity of labels	F13 - Product not physically intact	
C19 - Spelling mistakes	F14 - Incorrect quantity prepared	
C20 - Incorrect label used eg colour	F15 - Signature of product preparer	
	omitted from worksheet	
Labelling and packaging errors	Ancillary items	
D1 - Labels not affixed to final product	G1 - Equipment specified on worksheet	
	not supplied eg filter, protect from light	
D2 Tabala wat attached to actac Ball	bag	
D2 - Labels not attached to outer light	G2 - Tamper evident cap missing	
protectant packaging D3 - Labels inappropriately positioned		
on final product		
D4 - Signature of labeller omitted from		
worksheet		
Product approval checking errors		

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#### When was Error Detected

Was it detected at the first scheduled check in the process Y/N

- A Prescription Verification check
- B Worksheet and label check
- C Check in preparation area
- D In process check during preparation
- E During labelling
- F At final product check prior to release / approval
- G At Product release/ approval stage
- H After release, prior to administration
- I After release during or after administration
- J Other (must be qualified with details)



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#### **Contributory Factors**

There may be more than one

Α	Staff	awareness of	SOPS

- B Staff new / in training
- C Communication breakdown
- D Staff Knowledge
- E Automaticity
- F Facility / equipment fault
- G Poor quality of packaging and labelling of starting materials
- H Computer System Design
- I Process design
- J Poor storage / distribution practices
- K Workload pressures
- L Documentation design
- M Poor Segregation
- N Distraction
- O Interruptions
- P Deviation from Process
- Q Out of Hours working

#### GMP Failure Severity: H/M/L

GMP Failure Severity	Definition
High	Major breach of GMP which is likely to affect the suitability of the product for its end use, product cannot be released (or only can after significant event such as a change in prescription)
Medium	Significant breach of GMP but unlikely to affect the suitability of the product for its end use and upon balance of risk is suitable for release or A breach of GMP which may have impacted the product and the balance of risk is not to release
Low	Minor breach of GMP which does not impact on product suitability for its end use



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#### **Potential / Actual Outcome for Patient**

If the error is spotted before administration, there should be no actual outcome. Therefore, for the report, staff should estimate the potential outcome if the error had not been spotted. If the medication has been administered to a patient, the actual outcome should be recorded.

Descriptor	Actual or potential unintended or
	unexpected impact on patient
Catastrophic	Could have caused patient death
Major	Could have caused serious harm
Moderate	Potential to cause patient harm
Minor	Unlikely to cause patient harm
None	No potential for patient harm



If Yes above, please provide comments.

