

Audit Template

Audit Title: National survey on specimen contamination	
Lead Auditor: James Logie	Audit date(s): Jan-Mar 2017
Please indicate if Local / Regional / National Audit Please indicate which hospital & location or region	Report Author: Name: James Logie Email: james.logie@nhslothian.scot.nhs.uk
Aims of the Audit: 1) To establish the nature and scale of the problem of specimen contamination. 2) To suggest possible solutions to improve patient safety and experience.	
Audit Method and Outcome(s): <ul style="list-style-type: none"> • SurveyMonkey® questionnaire • Distributed 23rd January 2017 • Closed 13th March 2017 • Link sent to 353 ACB members (Head of department or most senior staff, by job title) • 52 responses, a large proportion 'partial' • Data analysed in Microsoft® Excel® 2007 & Analyse-it® 	
Audit Recommendations / Standards:	
Key findings	Possible solutions
1) Recording and extracting contamination data from LIMS is a challenge for a large proportion of UK laboratories	<ul style="list-style-type: none"> • Work with LIMS providers, labs IT teams • Encourage use from senior management • UKAS, engage with local laboratory Quality/compliance teams
2) There is potentially a lack of awareness of correct 'order of draw' for venous blood collection among laboratory and clinical professionals	<ul style="list-style-type: none"> • Education and communication with phlebotomists/nurses/Drs • 'Best practice' guidance from professional bodies (ACB/RCPATH/IBMS)
3) A significant proportion of laboratories continue to accept gel-loaded tubes for trace element analysis; little consensus on which other tests to avoid use of these	<ul style="list-style-type: none"> • Engage with trace elements laboratories and tube manufacturers • 'Best practice' guidance from professional bodies (ACB/RCPATH/IBMS)
4) Contamination appears to be a particular problem for inpatients (EDTA>drip arm>citrate); a location where several staff groups contribute to blood collection	<ul style="list-style-type: none"> • Explore further the factors underlying higher rates among inpatients • Review practice
5) EDTA/citrate assay use is not widespread	<ul style="list-style-type: none"> • Recommend uptake? • Review published evidence/more studies
6) The majority of contamination is identified by pattern of test results - ?a suboptimal method for detecting more subtle cases	<ul style="list-style-type: none"> • Local/National protocols including thresholds for spotting these
7) Certain tube manufacturers might be more prone to EDTA contamination than others (Sarstedt>BD)	<ul style="list-style-type: none"> • Investigate why • Work with manufacturers
8) There is no National consensus on if/how best to report contaminated samples	<ul style="list-style-type: none"> • 'Best practice' guidance from professional bodies (ACB/RCPATH/IBMS)
9) There is no National consensus on if/how these should be recorded in patient risk management systems and where the responsibility lies (laboratory vs. ward)	<ul style="list-style-type: none"> • 'Best practice' guidance from professional bodies (ACB/RCPATH/IBMS) • Better engagement with service users
10) There is a perception among a significant	<ul style="list-style-type: none"> • Challenge the perception!

proportion of senior laboratory professionals that sample contamination has low or minor impact on patient safety	
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Please indicate to whom and when audit presented &/or circulated &/or published:

- 1) Presented at ACB National Audit Meeting, 8th September 2017, Austin Court, Birmingham.
- 2) Manuscript in preparation.

Audit recommendations / standards ratified by ... and when: Not yet ratified.

Date of audit report: October 2017

Audit documents for upload to <http://www.acb.org.uk/whatwedo/science/audit.aspx>

Please include as attachments with this Audit Summary form if authors and the organising committee would like information to be publicly accessible on the ACB website Audit section.

Presentation

Standards/Recommendations

Blank Survey Questionnaire