



- 1 Where are we right now?
- 2 What to expect from the Inspectors

Pen to Paper suggestions - What you can do right away

- Risk Assessment
- Quality Control Plan
- Quality Assurance Plan
- 4 Let's do a practice IQCP
- 5 IQCP Helpful Hints

Our goal is to get you started on your IQCPs!





Where are we right now?



Alere CLIA QC Options

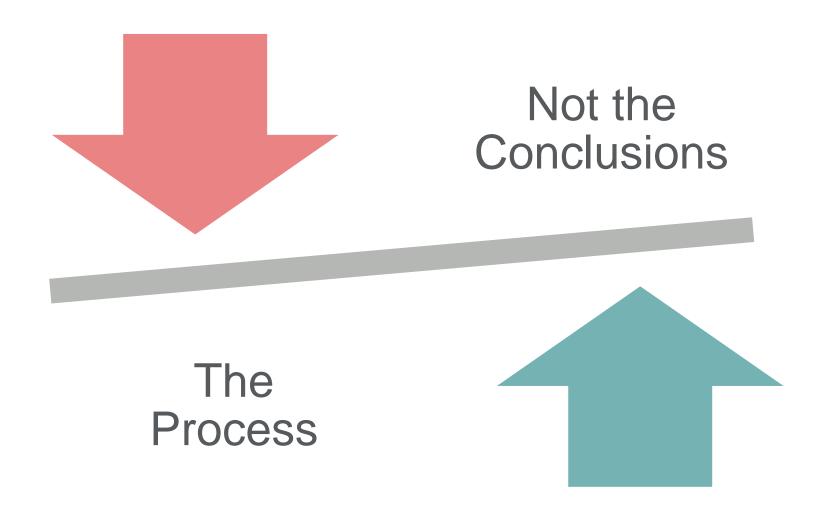
	Now	Jan. 1, 2016
Default (2-3 levels external QC/day)		
EQC (Equivalent QC)		X
IQCP		
COLA CAP		oint o

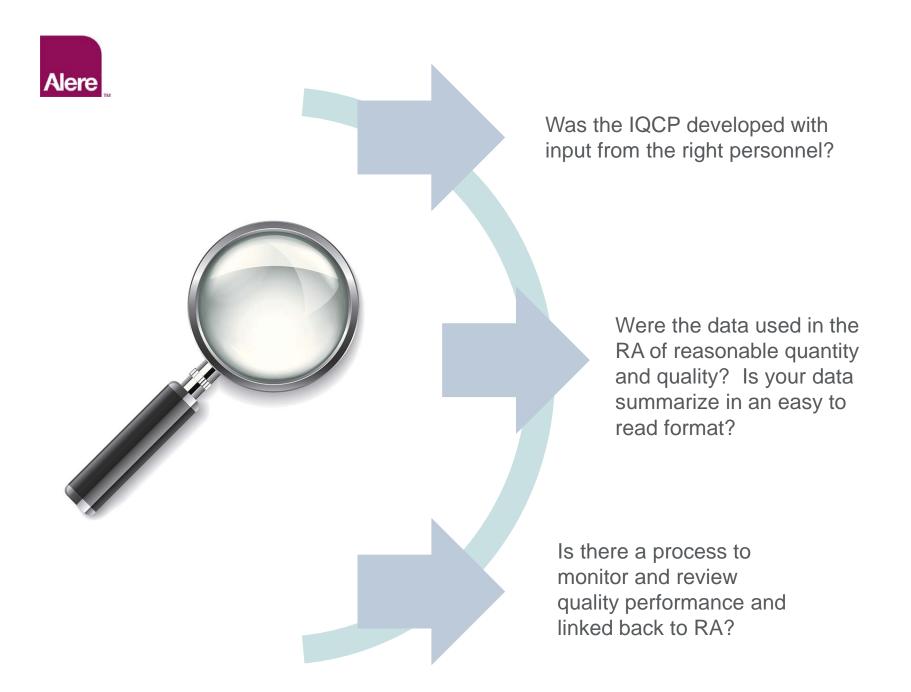




What to Expect from Inspectors







Alere

Alere An IQCP SOP is not required by CMS but should be considered as good laboratory practice and may be required by local, state or other accrediting groups.

Analysis of identical devices used in various locations

Review of the Quality Control Plan elements

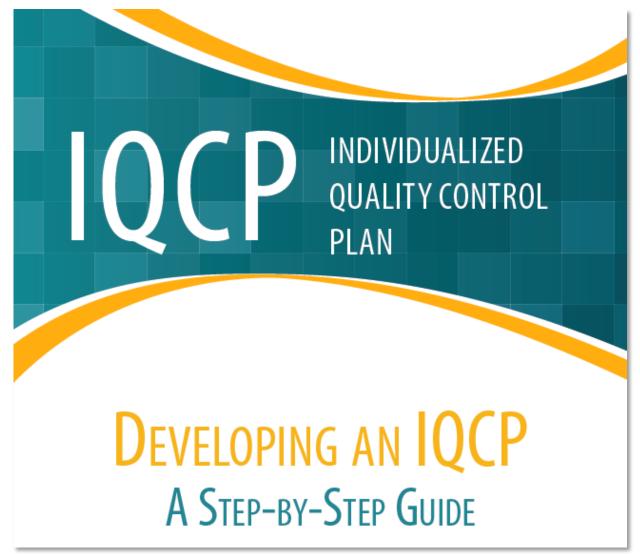
- Routine
- Failure investigations
- CAPA including return to the Risk Assessment

Annual review of the Quality Control Plan





Alere 62 Pages Worth Reading....



http://www.cms.gov/Regulations-and-Guidance/Legislation/CLIA/Downloads/IQCP-Workbook.pdf



Alere What We're Hearing from Joint Commission

CLIA Laboratory Director Responsibilities

Accurate and reliable test results that are appropriate for patient care...no matter what QC method they use

Ensuring that IQCP meets the requirements as set forth in IQCP Interpretive Guidelines (S&C-13-54-CLIA, Attachment 1)

Quality Control Plan

- Delegate in writing to qualified personnel the development and implementation of the QCPs
- Review, sign and date the QCPs before patient testing begins and results are reported (This cannot be delegated)

Data sourced from: Developing a Successful IQCP: Let's Keep it Simple Slide 15 Elia Mears, MHA MT(ASCP)SM Field Surveyor The Joint Commission Stacy Olea, MBA, MT(ASCP), FACHE Executive Director Laboratory Accreditation The Joint Commission AACC July 2015

9

Required forms: COM.50200

List of Individualized Quality Control Plans Individualized Quality
Control Plan
Summary

Only tests that employ an internal quality control system (electronic, procedural, or built-in control) qualify

Exception:
Microbiology media
and reagents used
for microbial
identification and
susceptibility testing

More stringent QC than CMS

CAP requires external QC every 31 days

Data sourced from CAP All Common Checklist July 28, 2015 Permission granted by College of American Pathologists.



Alere COM.50400 and COM.50500

Quality Control Plan

Specify the number, type, and frequency of testing QC material(s)

Contain criteria to determine acceptable QC results

Provide for immediate detection of errors for each phase of the testing process

Follow manufacturer's instructions and recommendations for QC at minimum

Must meet regulatory and CAP accreditation requirements

Indicate that your laboratory director reviewed, signed and dated the QCP document

Data sourced from CAP All Common Checklist July 28, 2015 Permission granted by College of American Pathologists.



Individualized Quality Control Plan Summary

Complete a separate form for each IQCP in use and present to the inspector during the on-site inspection.

Laboratory Name:		Laboratory Section/Depa	artment:				CAP Number:	
1) Instrument/Device Include name, manufacturer, and model	2) Tests List all tests included under the IQCP	3) Number of Devices In Use	•	of Test Sites* n more than one area	Date of Director Approval		ate mented	Date Retired
					Click here to enter a date.	Click he enter a		Click here to enter a date.

5) Process Used to Monitor Risk

List control processes put in place based on risk assessment – define the monitor and frequency evaluated.

Reagents	Environment	Specimen	Test System	Testing Personnel	Other

The form is intended to be used for developing an IQCP or the performance for a risk assessment. The form is to be completed by laboratories preparing for a CAP inspection. Inspectors will use this form and IQCP List as tools for audit the IQCPs in use during a CAP onsite inspection.

Permission granted to use this form by College of American Pathologists.



Quality Assessment

Monitoring to include the following:

Reagents

Specimen

Environment

Test system

Testing personnel

Ongoing assessments may include, but are not limited to, the review of the following records:

Quality control

Proficiency testing

Patient results review

Specimen rejection logs

Turn around time reports

Error/corrective action logs

Personnel/competency

Instrument maintenance logs



Alere What We're Hearing from COLA





Individualized Quality Control Plan (IQCP)

IMPLEMENTATION GUIDE

Permission to Use Copyrighted Material granted by: COLA Resources, Inc., (CRI) a laboratory medicine educational and consulting organization, located at 9881 Broken Land Parkway, Suite 215 Columbia Maryland 21046

Alere For More Information

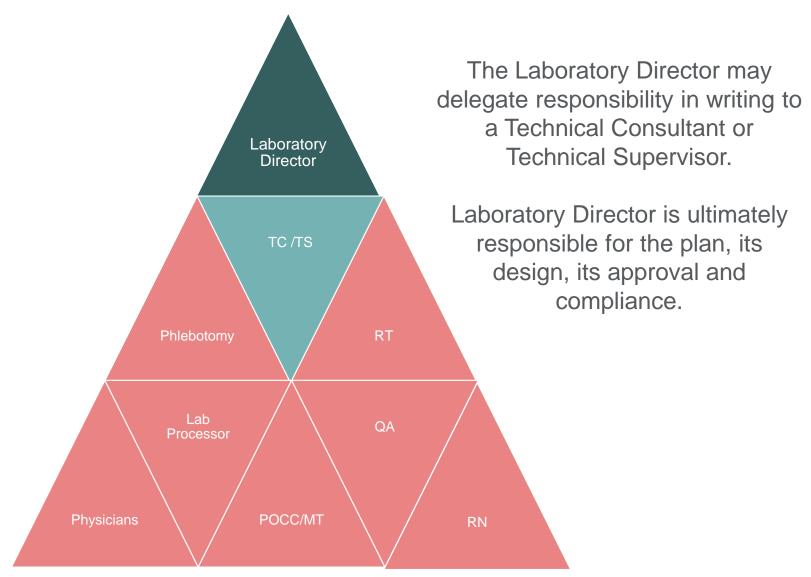
CMS	IQCP@cms.hhs.org
CAP	accred@cap.org
Joint Commission	qualitylabs@jointcommission.org Go to the Leading Practice Library
COLA	info@cola.org
Alere	IQCP@alere.com www.alere.com/IQCP





Pen-to-paper suggestions What you can do right away

Alere Create the Team







Risk Assessment

Process to identify risks

Quality Control Plan

 List of errors and actions to mitigate the risks

Quality Assessment

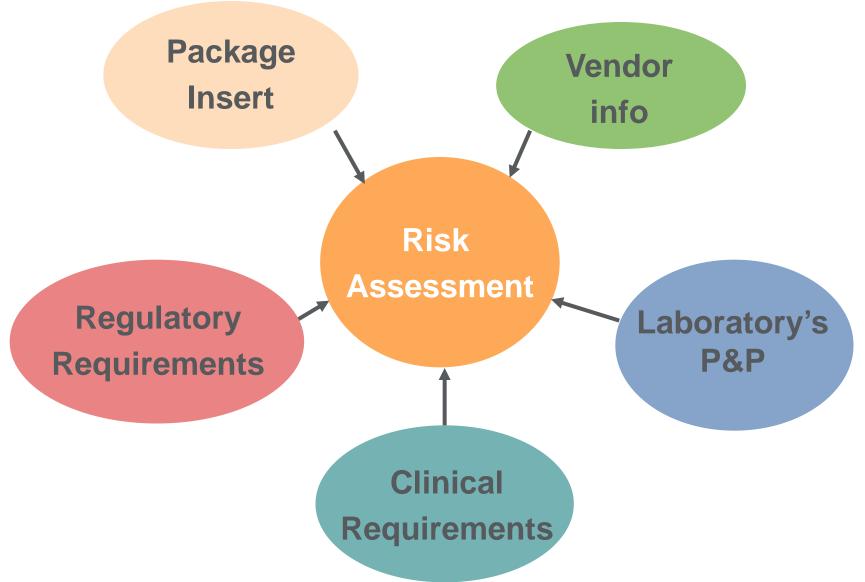
Monitoring of that plan





Component 1- Risk Assessment

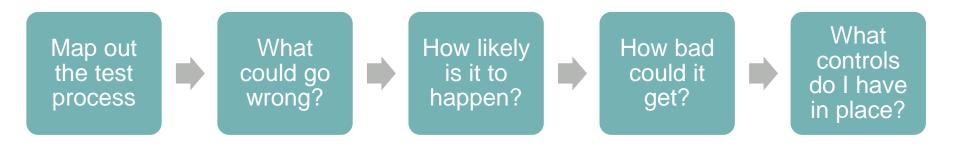
Alere Collect Necessary Documents



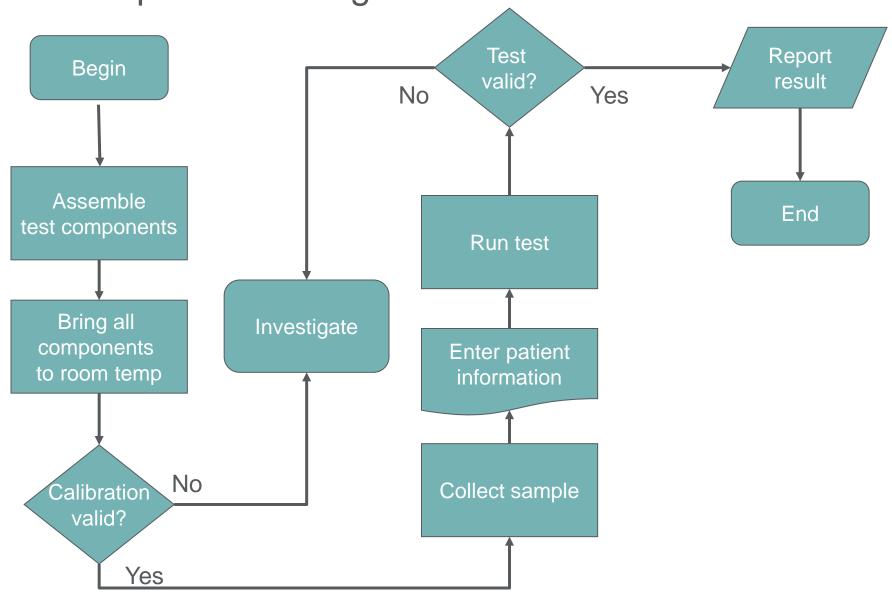


Alere A Simple Approach to Risk Assessments

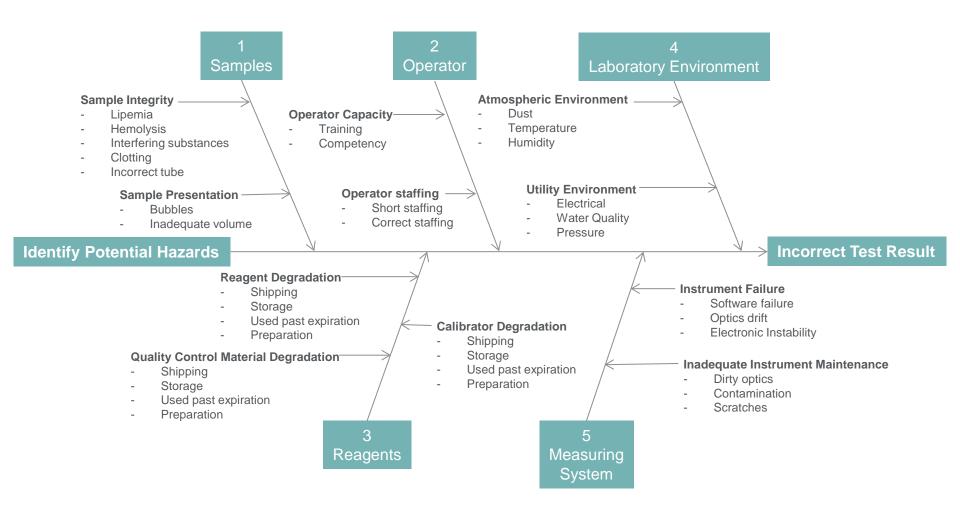
Ask...



Alere Map Your Testing Processes



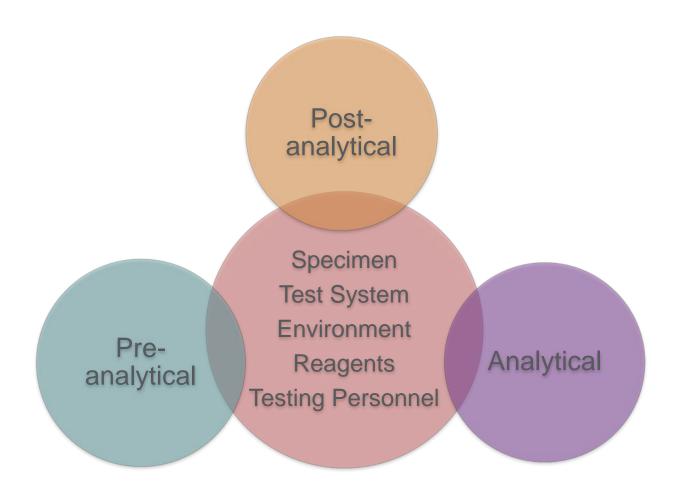
Alere Map Your Testing Process



Permission granted from: Laboratory Quality Control Based on Risk Management; Approved Guideline. CLSI document EP23-A. pg. 22 Wayne, PA: Clinical and Laboratory Standards Institute; 2011.



Alere Categorize the Process Steps





Alere Collect Data and Provide a Data Summary





Things to Include in Historical Quality Alere Summary Statistics

Specify time period used to review data

Internal/external QC review

Maintenance and performance checks Corrected reports and physician complaints



Alere Ranking Severity of Failure and Probability of Harm

Negligible

Inconvenience or temporary discomfort

Minor

 Temporary injury or impairment not requiring professional medical intervention

Serious

 Injury or impairment requiring professional medical intervention

Critical

 Permanent impairment or lifethreatening injury

Catastrophic

• Results in patient death

Frequent

Once per week

Probable

Once per month

Occasional

Once per year

Remote

Once every few years

Improbable

Once in the life of the test system



	Severity of Harm					
Probability of harm	Negligible	Minor	Serious	Critical	Catastrophic	
Frequent	X	X	X	X	X	
Probable	OK	Χ	X	X	X	
Occasional	OK	OK	OK	X	X	
Remote	OK	OK	OK	OK	X	
Improbable	OK	OK	OK	OK	OK	

Permission granted from: Laboratory Quality Control Based on Risk Management; Approved Guideline. CLSI document EP23-A. pg. 27 Wayne, PA: Clinical and Laboratory Standards Institute; 2011.





Component 2 - Quality Control Plan



Nothing less than the manufacturer's recommendations or local, state or AO requirements.

Lab Director approval, sign, and date.



Identify the processes that need additional controls.

Link your existing and new QC processes to the failures they prevent or detect.

Examine all your QC processes.

If you find a QC process that does not prevent or detect a failure, use the IQCP process to stop doing it.



Alere Process and Procedure Controls

Electronic/Internal/
Procedural Controls

Equipment
Maintenance and
Temperature Records

Corrective Actions

Personnel Training and Competency Assessment

Equipment Calibration Records

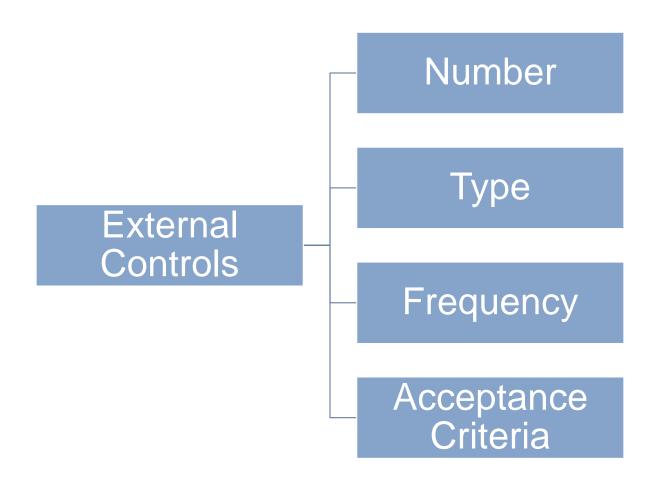
Proficiency Testing Results

Verification Data or Establishment of Performance Specification Data

External Controls



Alere When Using External Controls You Must Specify:







Component 3 - Quality Assessment

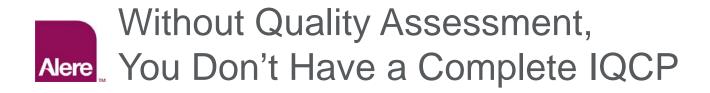
Alere Quality Assessment (QA)

Monitoring must be part of the laboratory's overall Quality Assessment plan.

- The monitoring should include, but is not limited to: testing personnel, environment, specimens, reagents, and test system.
- Reevaluation of the QCP should be considered when changes occur in any of the above components or during a failure investigation.
- QA is used to determine if the quality activities are working according to your QCP.

Alere Quality Assessment Activities





- Implement the PLAN with a review schedule for evaluating your QCP
- Monitor, verify and improve the PLAN, when needed
- You must update any portion of the RA with new information and modify the QCP when needed







Let's do a practice IQCP Risk Assessment



Things to consider if you want to do Alere an IQCP on the Acme Company Lab Test

If Acme Company's Test instructions state to perform 2 levels of external QC each day of testing-you meet minimum CLIA QC requirements and IQCP is not required

If Acme Company's Test recommends QC frequency less than CLIA, you have to: perform 2 levels of external QC each day of testing OR perform an IQCP

Look at your Acme Company Test, if the QC protocols would be costly running external controls daily, then PRIORITIZE the development of an IQCP



Alere Example of a Risk Analysis Worksheet from Alere

Failure	Cause	Failure Type	Potential Effect(s) of Failure	Alere Triage [®] System Risk Mitigation Features	Alere Triage [®] System Labeling Instructions, Warnings and Precautions	Laboratory Risk Mitigation	Severity	Frequency	Laboratory Documentation
	All specific information here is taken from the Alere Triage® User Manual, revision B, Alere Triage® BNP Product Insert (PN: 26159en Rev. C), Alere Triage® Cardiac HS Product Insert (PN: 26161en Rev. D), Alere Triage® D-Dimer Product Insert (PN:26164en Rev. D) and Alere Triage® TOX Drug Screen Product Insert (PN:26171en Rev. A).								
Operator failure	Not following manufacturer instructions	Testing Personnel		Guided instructions are on the screen of the instrument.	Package Insert (PI) and Instrument User Manual (UM)				
Test Device Handling	Improper reagent shipping temperature	Environment		Alere shipping containers designed to appropriately control temperature	Quality Control and Warnings and Precautions sections of PI				
	Outdated test device-use of expired devices	Testing Personnel		Expiration date is embedded in the device barcode that is read by meter	Warnings and Precautions of PI Expiration dating is printed on every test device.				
	Outdated test device-use of expired devices beyond 14 day room temperature storage	Reagent		None	Reagents must be stored according to the PI and UM. Expiration date is based on reagent stability studies. Technical Bulletin Quality Control Features 10001645-01 07/13				
Test Device Failure	General Test Device Failure - error code	Reagent		Built-in Procedural controls will detect general reagent failures	Technical Bulletin Quality Control Features 10001645- 01 07/13				

Alere Step by Step Risk Analysis Assessment

Risk Assessment Components	sources of error? What can	sources of error be reduced?	How can we reduce the identified sources of error?
Specimen			
Environment			
Reagent			
Test Systems			
Testing Personnel			



Laboratory: Anywhere Med

Test Location: NICU

The Step by Step Guide provides additional risk assessment questions in Appendix D that can help ask WHAT CAN GO WRONG!

Risk Assessment Components	Phases of Testin	go wrong:	error be reduced?	How can we reduce the identified sources of error?
Specimen	Preanalytic	Wrong sample type, incorrect anticoagulant, inadequate fill of tube, patient misidentification and specimen labelling errors.	YES	Training and competency on collection technique, follow manufacturer's instructions for specimen requirements Policy and Procedures (P&P).
		Bubbles or air in sample	YES	Training and competency on collection technique removal of air
		Improper lancet and capillary collection plain plastic, Li Heparin, clots, and inadequate mixing.	YES	Direct observation, and (P&P).

Data sourced from: Developing a Successful IQCP: Let's Keep it Simple Slide 61 Elia Mears, MHA MT(ASCP)SM Field Surveyor The Joint Commission Stacy Olea, MBA, MT(ASCP), FACHE Executive Director Laboratory Accreditation The Joint Commission AACC July 2015



RA –Acme Company Test-Environment

Laboratory:	Laboratory: Anywhere Medical Center Test System: Acme Company					
Test Location: NICU						
Risk Assessment Components		What are our possible sources of error? What cargo wrong?	identified sources of error be reduced?	How can we reduce the identified sources of error?		
Environment	Preanalytic, and Analytic	Temperature of testing area, humidity, and/or altitude out of range.	YES	Monitoring and documentation of temperature and humidity, competency, and P&P.		
		Testing area not free of vibration and/or not level.	YES	Appropriate test area designation.		
		Designated area not free of contamination (NICU in a dirty utility room)	YES	Appropriate test area designation, and site audits.		



RA – Acme Company Test - Reagent

Laboratory: Anywhere Medical Center Test System: Acme Company

Test Location: NICU

Risk Assessmer	nt Phases of Testing	What are our possible sources of error? What ca	nCan our	How can we reduce the
Components		go wrong?	identified sources of error be reduced?	identified sources of error?
Reagent	Preanalytic and Analytic	Reagent degradation if improper temperature upon receipt.	YES	Record conditions on receipt, document temperatures, room temperature storage documentation and monitor storage areas.
		If test device has a changed exp date, new exp date not labelled on test device	YES	If test devices out of box expiration changes, new date on test device, and new expiration date on RT stored cart
		Test device not used immediately after out of pouch	YES	P&P, training, and competency.



Example of Cut and Paste IQCP Support Alere Document

Test Loca Reagent	Preanalytic and Analytic	Reagent degradation if improper temperature upon receipt.	YES	Record conditions on receipt, document
				temperatures, room temperature storage documentation and monitor storage areas.
		If test device has a changed exp date, new exp date not labelled on test device	YES	If test devices out of box expiration changes, new date on test device, and new expiration date on RT stored cart
		Test device not used immediately after out of pouch	YES	P&P, training, and competency.
Reagent	Preanalytic	Outdated test device-use of expired devices beyond 14 day room temperature storage	YES	Reagents must be stored according to the PI and UM. Expiration date is based on reagent stability studies. Technical Bulletin Quality Control Features 10001645-01 07/13



Alere RA – Acme Company Test- Test System

Laboratory: An	ywhere	Medical	Center	-Test	System	
Test Location:	NICU					

rest Locatio				
Risk Assessment Components	Phases of Testing	What are our possible sources of error? What cargo wrong?	nCan our identified sources of error be reduced?	How can we reduce the identified sources of error?
Test System	Preanalytic, and Postanalytic	Wrong User ID	YES	Training and competency
		Procedural control and external controls (what to do if fails)	YES	Understand how procedural control works, QC failures, P&P, and follow manufacturer's instructions
		Manual Reporting error	YES	P&P and verification of results before reporting, or adding a data manager system such as RALS® as an interface.



RA –Acme Company Test-Testing Personnel

Laboratory: A	Laboratory: Anywhere Medical Center- Testing Personnel						
Test Location: NICU							
Risk Assessment Components	_	What are our possible sources of error? What can go wrong?	Can our identified sources of error be reduced?	How can we reduce the identified sources of error?			
Testing Personnel		Operator training, PRN's trained? How frequent do PRN's perform the test?	YES	Competency and training of all personnel required, P&P			
		Testing personnel and qualifications inadequate, short staffed, or license requirements not verified.	YES	Documentation of education and qualifications at the time of hire, or when responsibility assigned.			
		Low test volume and inadequate testing experience	YES	Test volume may drive frequency needed for QC			





Let's do a practice Quality Control Plan

Anywhere Medical Center Laboratory Alere Acme Company Test Example QCP Worksheet

These examples are not meant to be all inclusive of all possible QC procedures that may apply to your laboratory

Laboratory: Anywhere Med	Laboratory: Anywhere Medical Center- Acme Company test- Location: NICU					
Type of Quality Control	Frequency	Criteria for Acceptability (Range of Acceptable Values)				
Procedural Control	With each patient specimen	Must be documented as acceptable according to package insert on the quality control log sheet prior to reporting results.				
Temperature Checks	Record room temperature daily, in the morning and afternoon. Record refrigerator and freezer each day	List all range as specified in the package insert for room, refrigerator and freezer. These ranges will be recorded on the temperature log sheets.				
Verify specimen collection tubes for acceptability upon receipt in the laboratory	With each patient specimen	Refer to Specimen Rejection Policy and record all improperly collected tubes on specimen rejection log sheet.				
External Quality Control Normal and Abnormal Values	Assay normal and abnormal quality control no less than stated on package insert. Also see package insert for additional conditions to be run.	Acceptable external control values are within laboratory determined ranges. Results must be recorded on quality control log sheet prior to reporting results.				
Reagent Device Storage	With each reagent device	Document date and time on reagent device when removed from the refrigerator. Follow package insert instructions for handling reagents.				
Training	With each new testing personnel and when indicated	Successful demonstration of test performance. Document training activities.				
Competency Assessment	Six months and one year after initial training, annually thereafter.	All testing personnel must successfully meet all six CLIA elements for competency assessment.				
Laboratory Director Approval and Signature		Date				
Laboratory Director or Designee Review and Signature Date						



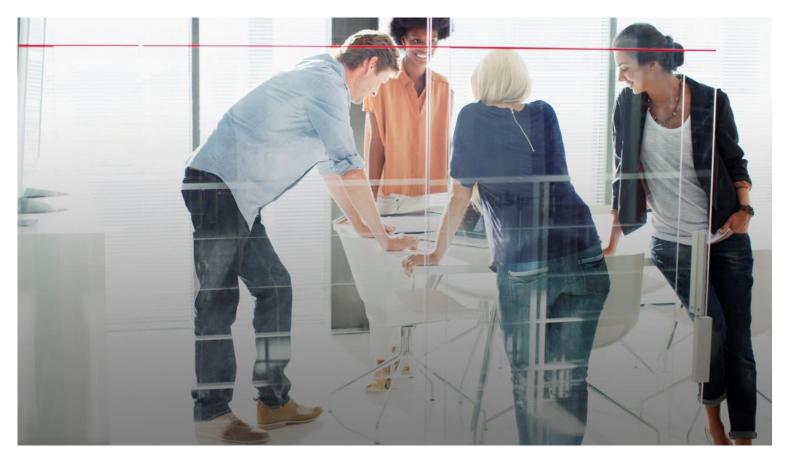
Anywhere Medical Center Laboratory

Laboratory: Anywhere	Laboratory: Anywhere Medical Center- Acme Company test- Location: NICU						
QC Process to Monitor	Frequency	Assessment of QC Process (Was there variation from established policy and procedures?)	Corrective Action (When indicated)				
Review all temperature logs	Monthly	Yes	Remedial training of testing personnel. Reassess testing personnel performance.				
Review all specimen rejection logs	Monthly	Yes	Remedial training of processing personnel. Reassess processing personnel performance.				
Review QC logs	Daily	No					
PT Records	Monthly	No					
FDA Alerts	As Needed	No					
Review training logs	As needed based on staffing	No					
Review personnel qualifications	As needed based on new hires.	No					
Review competency assessments	Annually	No					

Data sourced from: Developing a Successful IQCP: Let's Keep it Simple Slide 68 Elia Mears, MHA MT(ASCP)SM Field Surveyor The Joint Commission Stacy Olea, MBA, MT(ASCP), FACHE Executive Director Laboratory Accreditation The Joint Commission AACC July 2015



Alere Draft an IQCP Standard Operating Procedure



An IQCP SOP is not required by CMS, but should be considered as good laboratory practice and may be required by local, state or other accrediting groups.





IQCP Helpful Hints



DON'T go it alone!!!

Don't just cram your existing QC procedures into your IQCP

- An IQCP links potential failures to QC procedures.
- If a QC procedure doesn't link to an IQCP failure, STOP DOING IT

Multiple tests on a cartridge? Devices in multiple locations?

The manufacturer RA spreadsheets could be a starting point.

- Feel free to modify them to work for you
- Don't forget about the pre- and post- analytical failures



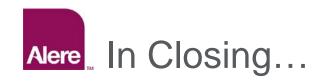
Summarize your data for your inspectors

Risk Analysis does not have to be complicated

Laboratory Director cannot delegate initial approval of IQCP

IQCP SOP may be incorporated into existing QCP and QA SOPs

Best guide: Developing an IQCP A Step-by-Step Guide



Your biggest obstacle - Finding time to work on your IQCP

Delegate tasks to staff

Don't reinvent the wheel.
Select an example template and start

You can get some things completed on your IQCP tomorrow!

Don't stress over making your IQCP perfect

Keep it Simple!

If you haven't started yet, get started tomorrow!



Questions?

© 2015 Alere. All rights reserved. The Alere Logo, Alere, Knowing now matters, Triage and RALS are trademarks of the Alere group of companies. SAHIGHR-0067-A