Individualized Quality Control Plan (IQCP)

IQCP is the topic on the minds of all clinical laboratorians, and there are many questions surrounding this new QC option. Below are the few most common Q&A:

What is IQCP?

IQCP stands for "Individualized Quality Control Plan" and is an alternative option provided by CLIA for a QC testing plan for non-waived tests systems. It is replacing the Equivalent QC option that many labs currently use.

What are the components of the IQCP?

The IQCP has 3 key elements:

- 1. **Risk Assessment** (RA) includes the identification, evaluation, and mitigation of "significant" potential failures (hazards/errors) that can impact test result quality in all three phases (pre-analytical, analytical, and post-analytical) of the testing process. The CMS mandates, at a minimum, that RA includes the evaluation of the specimen, environment, reagent, test system, and testing personnel. The IQCP policy highlights many resources to assist with the RA process
- 2. **Quality Control Plan** (QCP) describes the practices, resources, and procedures to control the quality of a particular test process, ensure the accuracy and reliability of test results, and ensure that result quality is appropriate for patient care
- 3. Quality Assessment (QA) monitors the ongoing effectiveness of the IQCP

When does it need to be implemented?

January 1, 2016 is the date labs must either use (1) default CMS/CLIA QC procedures or (2) implement an IQCP. So long as labs use CMS/CLIA default procedures by this date they will be in compliance, and labs can implement an IQCP at any time after this date.

Are there other options?

Yes. The other option will be to follow the default CLIA regulations, which is to perform QC every day of testing for all test systems.

How do you define a "test system," and how do you address QC (risk) of each individual component of the test system?

Excerpt from May/2015 edition of Microbytes, answer provided by Dr. Susan Sharp.

CMS defines a "Test System" as: the instructions and all of the instrumentation, equipment, reagents, and supplies needed to perform an assay or examination and generate test results. (Note: The reference CLSI EP-23A uses the terminology "measuring system" for test system).

Reference for answer: CLIA 493.2, See Definitions and look under EXAMPLE -

https://www.law.cornell.edu/cfr/text/42/493.2, and CLSI document EP-23A,

http://clsi.org/blog/2011/10/01/clsi-publishes-new-guideline-laboratory-quality-control-based-on-risk-management-ep23-a/).

CMS recommends some areas to evaluate for potential sources of error for the entire test system to include in your risk assessment on page 3 of the following CMS guidance document (http://www.cms.gov/Regulations-and-Guidance/Legislation/CLIA/Downloads/CLIAbrochure13.pdf).

How do you perform a risk assessment?

To start your IQCP risk assessment for Systems, do the following three tasks:

1. Identify the risks for potential error associated with your test system (includes preanalytical, analytical and post analytical area of testing).

NOTE: Some possible risks are listed below - some, but not all, may apply to your test system (Note: this is not meant to be an exhaustive listing):

- Inadequate sampling
- Clot detection capabilities
- Capabilities for detection of interfering substances (e.g., hemolysis, lipemia, icterus, turbidity)
- Calibration associated issues
- Mechanical/electronic failure of test system
- Optics
- Pipettes or pipettors
- Barcode readers
- Failure of system controls and function checks
- Built-in procedural and electronic controls (internal controls)
- External or internal liquid quality control (assayed vs. unassayed)
- Temperature monitors and controllers
- Software/Hardware
- Transmission of data to LIS
- Result reporting
- **2. Determine the frequency of occurrence and severity of harm for each identified risk**. CMS states the following: "To conduct a risk assessment, the laboratory must identify the sources of potential failures and errors for a testing process and evaluate the frequency and impact of those failures and sources of error" (CMS reference: Survey and Certification: 13-54-CLIA, August 16, 2013).

The following tables may be used to determine the frequency and impact of failures. These are only examples; other words and definitions may be used:

Frequency of Occurrence				
Unlikely (once every 2-3 yrs)				
Occasional (1/yr)				
Probable (1/mo)				
Frequent (1/wk)				

Severity of Harm

Negligible (temporary discomfort)

Minor (temporary injury; not requiring medical intervention)

Serious (impairment requiring medical intervention)

Critical (permanent impairment requiring medical intervention)

3. Define measures that are in place to control, reduce or mitigate these risks.

As an example, you might develop a table that includes all of these items. This is only one example of how this may be developed; many other ways will also be acceptable.

RISK	Frequency of	Severity	Measure(s) to	Relevant Documentation
	Occurrence	of Harm	Control Risk	
Mechanical/	Unlikely	Negligible	All mechanical and	SOP.1111
electronic failure of			electronic	Manufacturer's Instruction Guide
test system			maintenance are	
			performed properly	
			and at regularly	
			scheduled intervals	
			as defined by the	
			manufacturer.	
Failure of system	Unlikely	Negligible	All system controls	SOP.2222
controls and function			and function checks	Manufacturer's Instruction Guide
checks			are performed	
			properly and at	
			regularly scheduled	
			intervals as defined	
			by the manufacturer.	
Built-in procedural	Occasional	Minor	All built-in	SOP.3333
and electronic			procedural and	Manufacturer's Instruction Guide
controls (internal			electronic controls	TR.aaaa
controls)			(internal controls)	CA.xxxx
			are performed	
			properly and at	
			regularly scheduled	
			intervals as defined	
			by the manufacturer.	
Ì			All testing personnel	
			have had appropriate	
			training (TR). Regular	
			competency	
			assessment (CA)	
			done on staff.	

Where can you find more information?

The Centers for Medicare & Medicaid Services (CMS) has published several useful documents including brochures, frequently asked questions, and a step-by-step guide to help develop your own IQCP. These documents and details on IQCP can be found at their website at the following link:

http://www.cms.gov/Regulations-and-

Guidance/Legislation/CLIA/Individualized Quality Control Plan IQCP.html

College of American Pathologists (CAP):

<u>Individualized Quality Control Plan (IQCP) Frequently Asked Questions</u>
Eligibility Determination for Individual Quality Control Plan (IQCP) Option

ASM has also published additional helpful documents to help you get started on your individual plans as well. These are available at http://clinmicro.asm.org/index.php/lab-management/laboratory-management/445-iqcp-iqcp.

Information obtained from the May, 2015 Hardy Diagnostics MicroBytes article on:

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