

Lessons Learned at Claritas from Simultaneous Accreditation to CLIA and ISO 15189: Combining the World's Most Accepted QMS with CLIA

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Overview

- A2LA
 - Background
 - Application process
 - Pre-assessment
 - Assessor qualifications
 - On-site Expectations
 - Reporting and Corrective actions
 - Accreditation Recognitions

- Claritas
 - Background
 - Preparations
 - Pre-assessment
 - Claritas assessor interaction
 - On-site perspectives
 - Reporting and corrective actions
 - Accreditation Value



A2LA Background

- Non-profit, non-governmental, membership organization
- Provide accreditation and training
- Established in 1978
- International Laboratory Accreditation Cooperation (ILAC) Recognized
- Deemed Status achieved in 2014
- Only AO in world holding both ILAC and CMS Recognitions!



Claritas Genomics Background

Claritas combines the world's best pediatric specialists with innovative patient-centric diagnostics to advance precision care.

- Commercial molecular diagnostics laboratory
- Spun out of Boston Children's Hospital in 2013
- Large Test Menu including, the Claritas Clinical Exome, several region of interest exome tests, single gene assays, deletion/duplication assays, Chromosomal Microarray, and PCR/Gel bases assays.
- Hold CLIA and ISO:15189 accreditations and licenses with MA, CA, FL, MD, NY*, PA, and RI.



Why ISO?

- A robust QMS is essential to a molecular sequencing lab
- Perfect time to implement processes that were based in QMS concepts reflected in ISO 15189
- Prepares company for additional accreditations and licensure
- Future of regulatory landscape
- Support from Executive Level of Organization



Why A2LA?

- A2LA reaches an organizational depth that other AO's do not reach
- Results in a deeper corporate quality audit
- A2LA's CMS deemed status makes process more efficient
- High level of engagement and support from A2LA
- International recognition of the ISO:15189 accreditation



A2LA Application

- Complete application including:
 - Completed application form
 - Organization chart and Technical Matrix
 - Credentials of key staff members
 - PT Plan, PT data, Corrective actions for any PT Outliers
 - Quality Manual and supporting SOPs
 - Completed assessor checklist
 - Equipment list, floor plan
 - Scope Selection List



A2LA Application Process

- Upload to CAB Portal
- A2LA Accreditation Officer Reviews Submittal
- Accreditation Officer Proposes Assessor/Assessment Team
- Schedule assessment dates



Assessor Planning

- Prior Document Review
- Prepare notes and questions
- Send notification to lab informing them of gaps or questions/clarifications
- Provide agenda



Application Process

November 2013

Began
 Discussions
 considering ISO
 15189 and A2LA



 Obtained Application for ISO 15189 Accreditation







July 29, 2014 Application Submitted

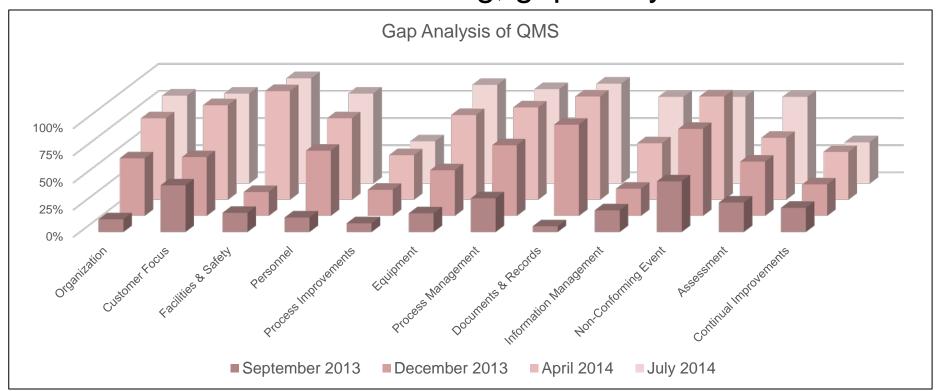
December 2013

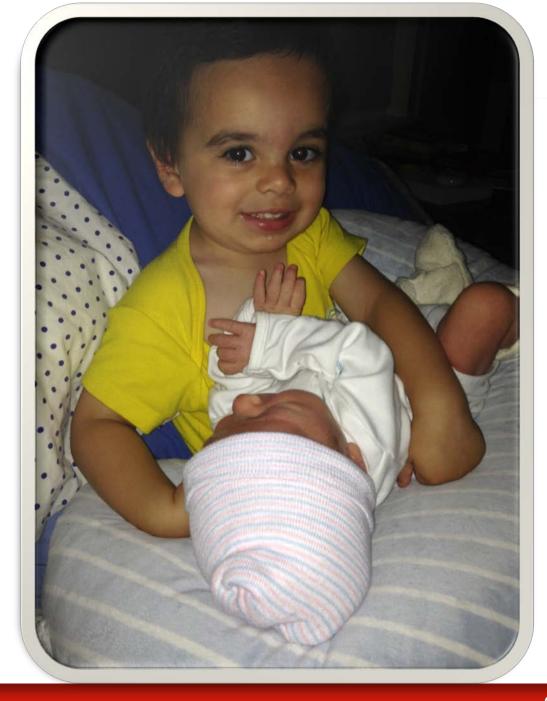
First gap analyst performed of QMS



Document Review Preparation

- Significant amount of process planning and policy writing
- Optimization of document control process
- Continual internal auditing, gap analysis of QMS





Pre-Assessment

- Optional
- Provides an opportunity to explain the requirements, policies, and expectations
- Normally lasts one day on-site
- Assessor provides lab a listing of items to work on



Pre-Assessment

- Valuable tool to prepare for on-site assessment
- Exhaustive review of most documents and processes
- Used report as audit tool for the next 11 months
- Useful validation of expectations of standards

Allowed to become accustomed to how A2LA

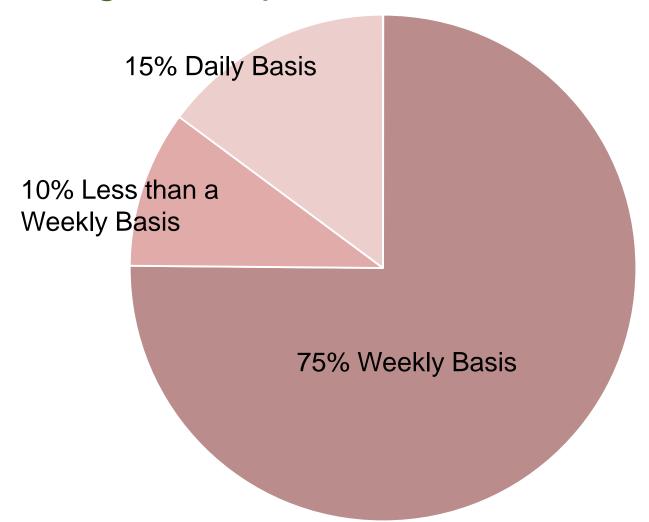
would inspect



Assessment Preparation

- 5 formal audits against pre-assessment report
- 1 full audit of ISO:15198
- Filling the gaps identified in the pre-assessment
- Constant process improvements
 - Implementing new processes
 - Improve documentation of current processes
- 100 Documents put under document control
- 83 External References put under document control
- QRR Committee met twice a month

Percent of Company Actively Working on the Planning and Implementation of QMS



Assessors

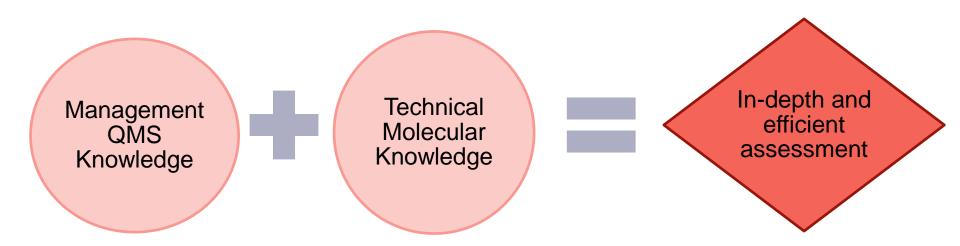
- Assessor Qualifications
 - Technical expert with minimum of 10 years experience in the technology
 - A2LA provides 5 day training course
 - ISO 15189 Requirements
 - ILAC Policies
 - Assessment approach
 - Interviewing/Interpersonal skills
 - A2LA policies
 - Must pass a written exam
 - Technical match with Lab's Scope



Assessors

- Assessor Qualifications continued:
- Annual Technical Forum refresher training
- Assessor monitoring
 - Staff assessor oversights
 - Staff evaluations (each assessment)
 - Lab feedback (each assessment)
 - Accreditation Council evaluates assessors

Two Assessors for On-Site Inspection



On-site Assessment

- Focus more on implementation than documentation
- Fact-finding mission
- Transparency-no surprises
- Findings must be cited to a requirement (ISO 15189, CLIA, labs own procedures not to an assessor opinion!)

On-site Assessment

- Management system review
 - Management review
 - Internal audits
 - Corrective and preventive actions
 - Document and record control
 - Areas "outside the lab" procurement, customer feedback, complaints, reference labs



On-site Assessment

- Technical review
 - Observe tests
 - Interview personnel
 - Review records
 - Evaluate equipment
 - Proficiency testing results



On-Site Assessment

Management System

Assessor + QA Manager at a desk

Review of Documents and Records

Reviews evidence of following requirements and internal policies

Technical

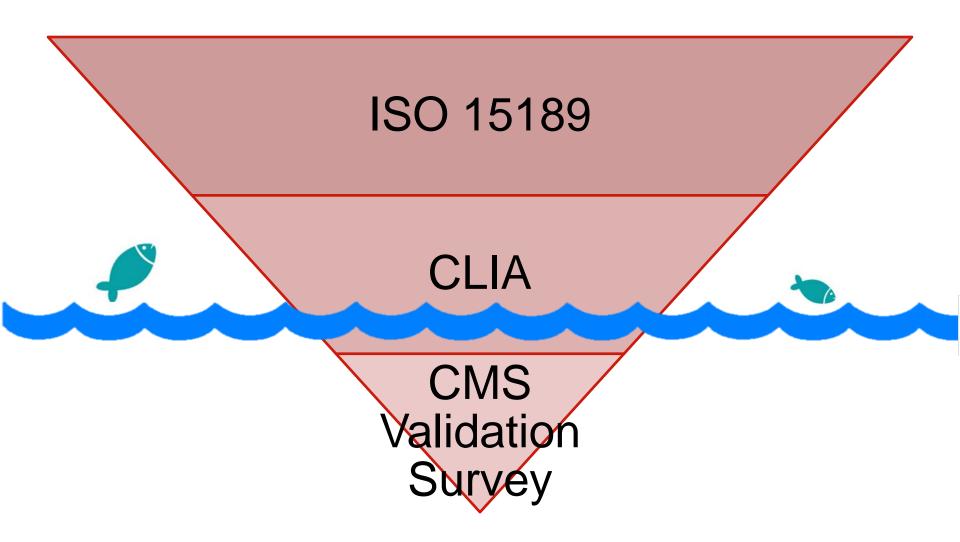
Assessor and Lab Management in the Lab

Interview Technologists

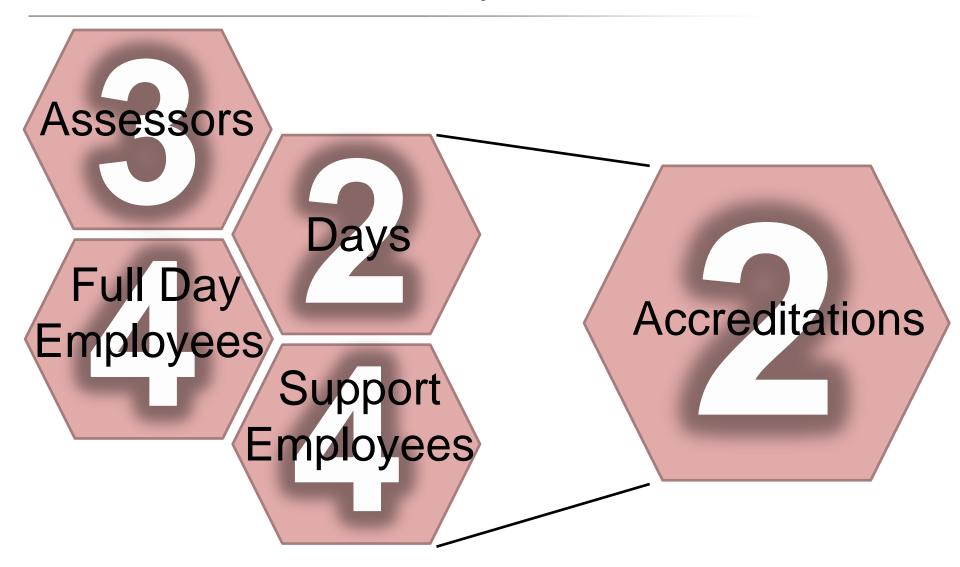
Reviews validations

Performed Tracer Audit

On-Site Assessment



On-Site Assessment by the Numbers



Reporting

- Exit briefing
- Final, written report provided at exit
- Instructions provided on responding to findings



Reporting

- Prior to citing a deficiency and completing report, assessors consulted regional CMS with discordant opinions
- Exit briefing was extremely thorough with evidence of what regulation was being cited
- Full official report given prior to departure
- List of Observations, optional, also provided, on ways to improve current practice or documents.

Corrective Action Process

- A2LA Requires:
 - Root cause investigation
 - Corrective action
 - Objective evidence demonstrating that deficiency has been closed
 - Past tense not "we will"



Corrective Action Process

- Explicit directions on how they want to see CAPA process
- Worked within internal policies of Non-conforming event and CAPA reporting and management
- Quick turn around time for feedback of submission
- Independent Accreditation Counsel reviews the objective evidence and determine whether to grant accredidtion

Recognitions

- A2LA is the only Accreditation
 Organization in the World that holds
 both:
 - CMS Deemed Status
 - International Laboratory Accreditation Cooperation (ILAC) Recognition



Recognitions

- A2LA maintains and operates a management system similar to our customers
- ISO 15189 Program is recognized
- ILAC recognition means labs results can be accepted internationally



Accreditation Value

Internal

Thorough prep and audit greatly improved our QMS

Improved Culture of Quality Enterprise-wide

Improved Regulatory Readiness

Prepared us for future of FDA Oversight of LDTs

External

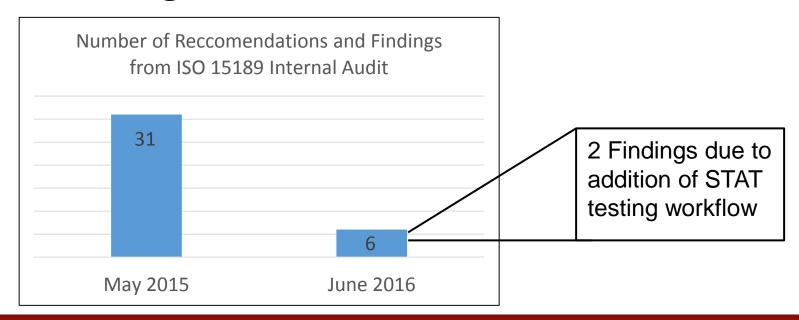
Identifies us Early Adopter of Future Climate of QMS

Marketing Opportunity

Insurance Company Noted Accreditation as a sign of lower risk

Improved Regulatory Readiness

- Increased number and variety of internal audits
 - Required to perform ISO:15189 and CLIA annually, and Management Review semiannually.
- Increased number of qualified internal auditors
 - Gaining more unbiased audit results



Improved Regulatory Readiness

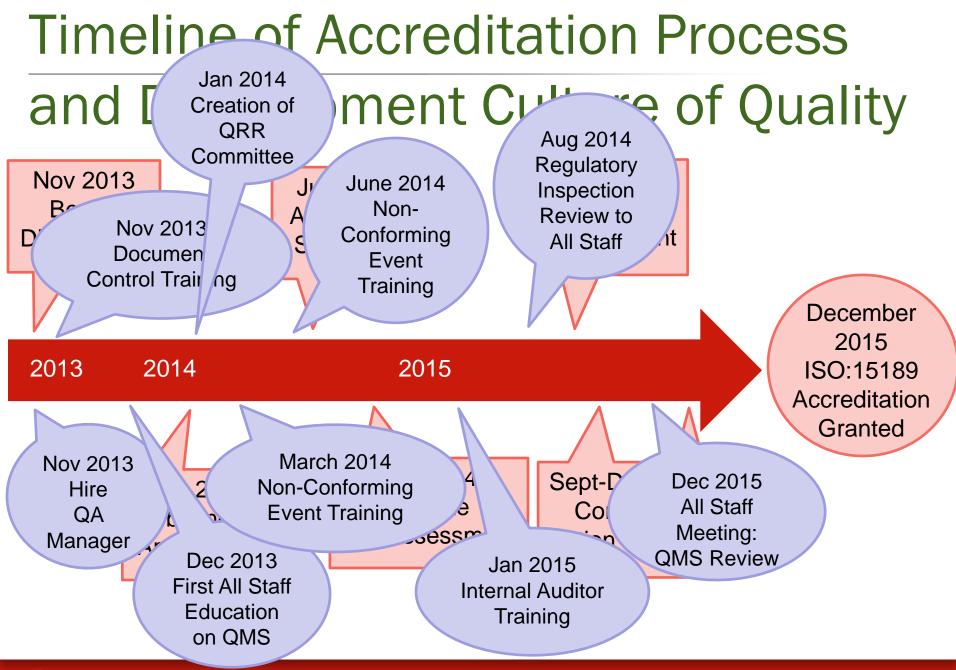
Since gaining our ISO:15189 and CLIA accreditation we've had several successful on-site inspections, including:

New York State Clinical Laboratory Evaluation Program

Unannounced follow up to CMS Validation Survey

State of California Department of Public Health

Also renewed their license with: CA, MA, MD, PA, and RI







FOR MORE INFORMATION ABO OR CONTACT YOUR LOC OR CONTACT YOUR STATE AG PLEASE CONTACT YOUR STATE AGEN...



ISO 15189:2012 ${\it Internationally-Recognized}$ Accredited Laboratory

A2LA has accredited CLARITAS GENOMICS, INC.

Cambridge, MA

for technical competence in the field of

Clinical Testing

This laboratory is accredited in accordance with the recognized International Inis laboratory is accreained in accordance with the recognitive international Standard ISO 15189:2012 Medical laboratories - Requirements for quality and competence. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2015).

Presented this 22nd day of December 2015.



For the tests to which this accreditation applies, please refer to the laboratory's Clinical Scape of Accreditation.



Senior Director of Quality & Communications For the Accreditation Council Certificate Number 3712.01 Valid to December 31, 2017 Revised: March 1, 2016



