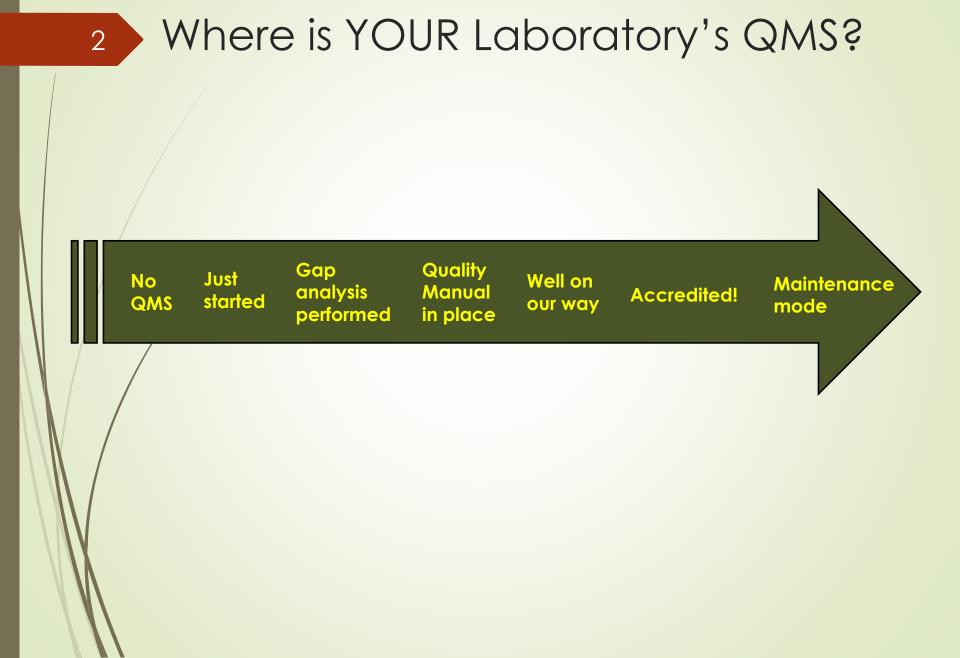
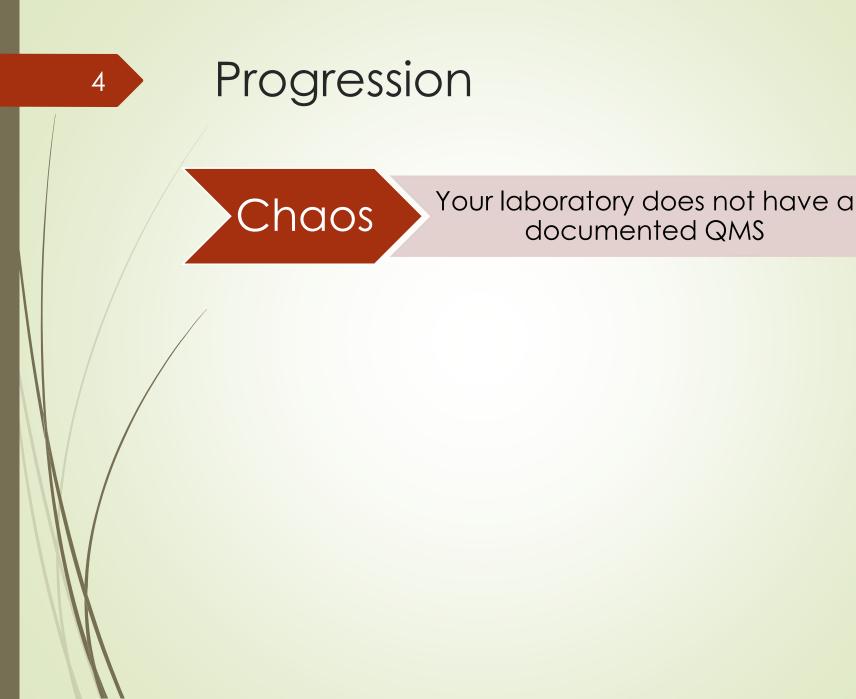
Kicking It Up A Notch From Chaos to Basics to Fine-Tuning Your QMS

Lucia Berte

Laboratories Made Better!







Chaos – "Are you here? – OR – "You <u>are</u> here"

CLIA-based SOPs





CLIA-Based SOPs

The mindset of the CLIA 14 elements of a procedure manual <u>does not work</u> for administrative documents.

Only Half of a QMS is Testing

The other half is the management activities that support testing. *

- Organization
- Customers

7

- Facilities and Safety
- Personnel
- Suppliers and Inventory
- Equipment

- Workflow processes *
- Documents and records
- Information
- Nonconforming events
- Assessments
- Improvement

Until you accept this...

CLIA 14point procedure is about a single <u>analyte</u>.

8

How many of those does your laboratory routinely do?

What about automated testing?

What about all those management activities?

...a successful QMS will be difficult

Chaos – "Are you here? – OR – "You <u>are</u> here"

CLIA-based SOPs

9

- Recurring inspection deficiencies
 - Competence assessment, PT, method validations and verifications, documents not being followed
 - Same laboratory section or different sections each time



Recurring Inspection Deficiencies

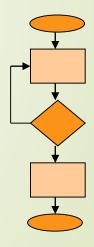
Documents do not reflect the order in which work actually happens.

Lack of "Process" Perspective

All work is sequential processes

11

- ISO 15189 and the CLSI Quality System Essentials Model are management and workflow process-based QMSs
- Lean: Reduce process waste
 Six Sigma: Reduce process variation
- Engaging with practitioners through the test ordering and results interpretation processes
- Change leadership: process and cost thinking



Chaos – "Are you here? – OR – "You <u>are</u> here"

CLIA-based SOPs

Recurring inspection deficiencies

 Competence assessment, PT, method validations and verifications, documents not being followed

Same laboratory section or different sections each time

"We do QC and QA" - in line with CLIA

13 The Roles of QC, QA, and QMS

Laboratory's Path of Workflow

QC monitors test methods*

Preexamination Examination* Postexamination

<u>QA</u> measures Path of Workflow process performance**



<u>QMS</u> organizes all the management <u>and</u> workflow processes

Chaos – "Are you here? – OR – "You <u>are</u> here"

CLIA-based SOPs

Recurring inspection deficiencies

 Competence assessment, PT, method validations and verifications, documents not being followed

Same laboratory section or different sections each time

A "We do QC and QA" mentality, in line with CLIA

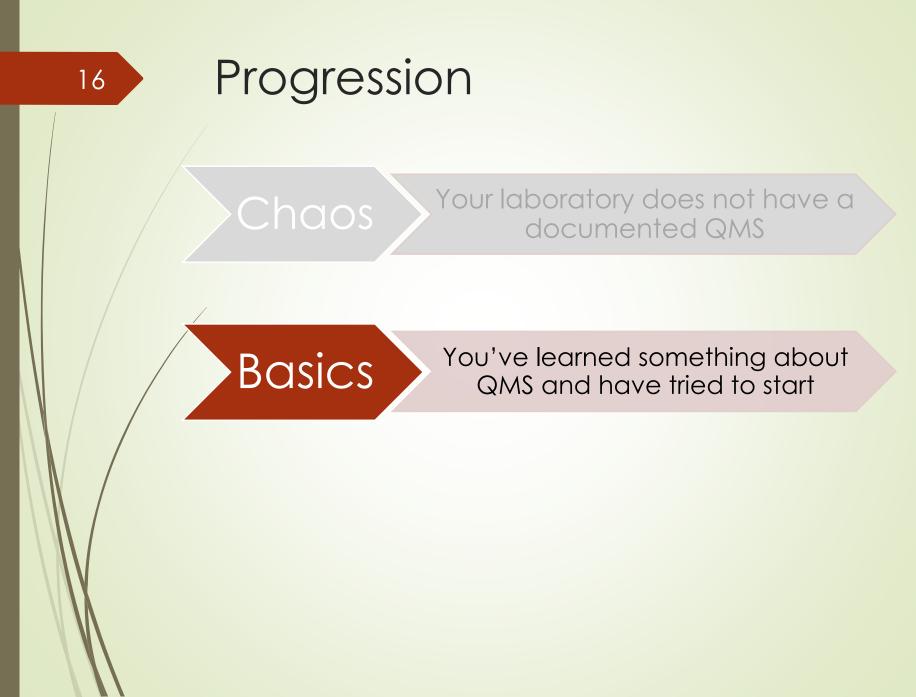
An "administrative manual" organized – or not

14

How to Get Started 1.

- Dismantle your
 laboratory's
 "administrative manual"
- Collect administrative memos, postings, emails
- Sort each document to its respective management topic and process

- Use Gap Analysis tools to do a gap analysis on your laboratory's
 - Documents
 - Processes
- Prioritize the identified gaps
 - Which documents and/or processes are missing?



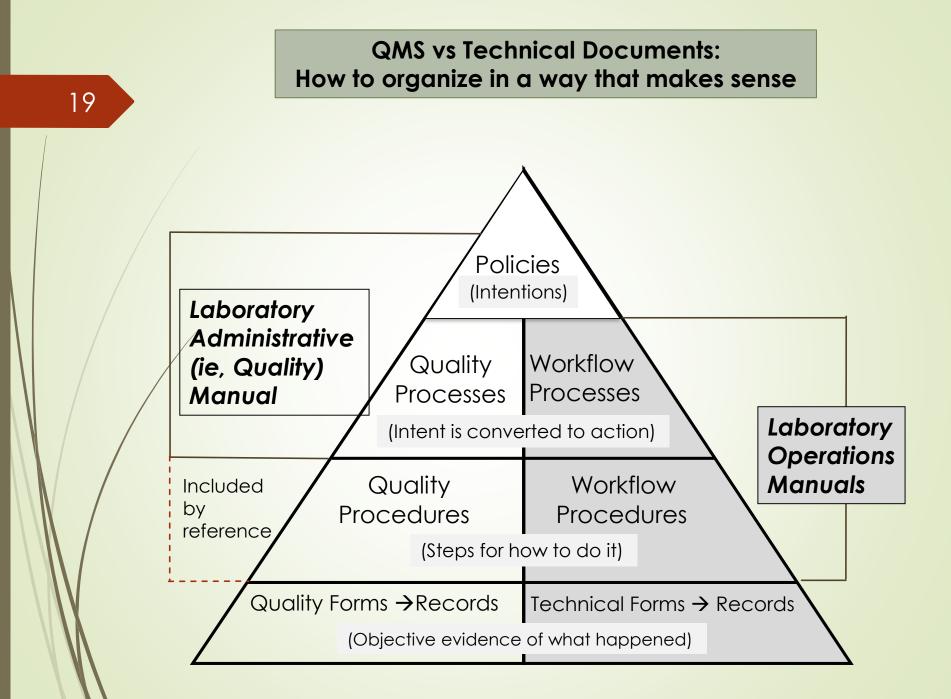
Creating the Basic QMS

- Understand the relationships between types of documents and their related records
- 2) Close documentation gaps
- Analyze nonconforming events to identify the problematic processes they represent
- Conduct and record improvement projects



Creating the Basic QMS

1) Understand the relationships between types of documents and their related records





Creating the Basic QMS

1) Understand the relationships between types of documents and their related records

2) Close documentation gaps

How to Get Started 2.

- Close the gaps with documented processes and procedures
- Use the new administrative manual (aka "quality manual") as <u>management's</u> procedures manual
- Train all new management personnel on <u>management</u> policies, processes, and procedures
- Train all personnel on management procedures they will routinely perform
 - Correcting errors on paper and electronic records
 - Reporting a nonconformance

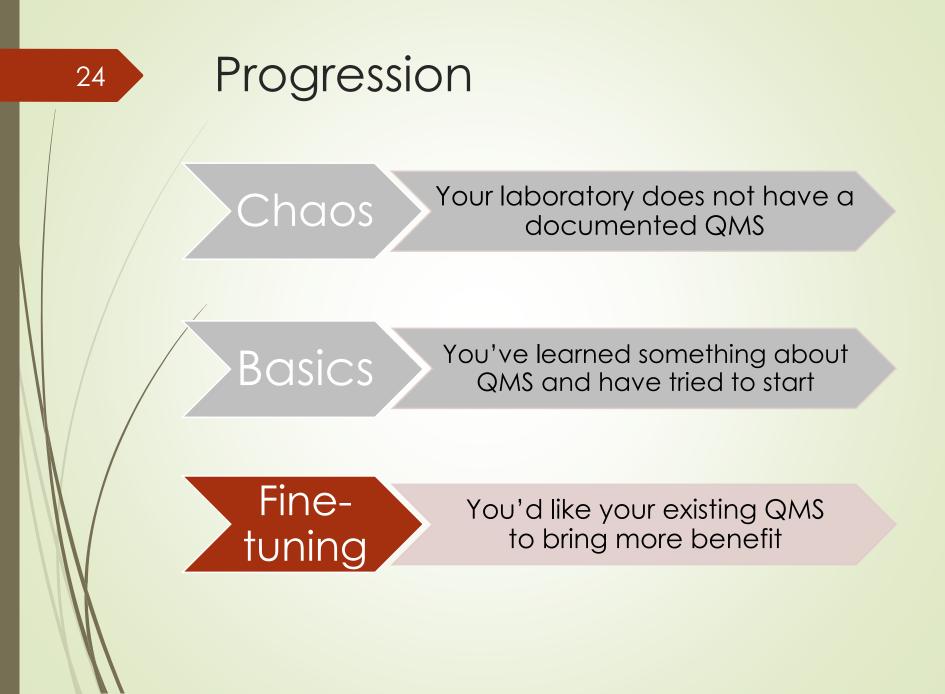
Creating the Basic QMS

- 1) Understand the relationships between types of documents and their related records
- 2) Close documentation gaps
- 3) Analyze to identify problematic processes
 - Nonconforming events
 - PT problems
 - Findings from internal audits
 - Findings from external assessments

Creating the Basic QMS

- 1) Understand the relationships between types of documents and their related records
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 - Findings from external assessments

4) Conduct and record improvement projects



How to Bring More Benefit to Your QMS

A. Think "PDCA"

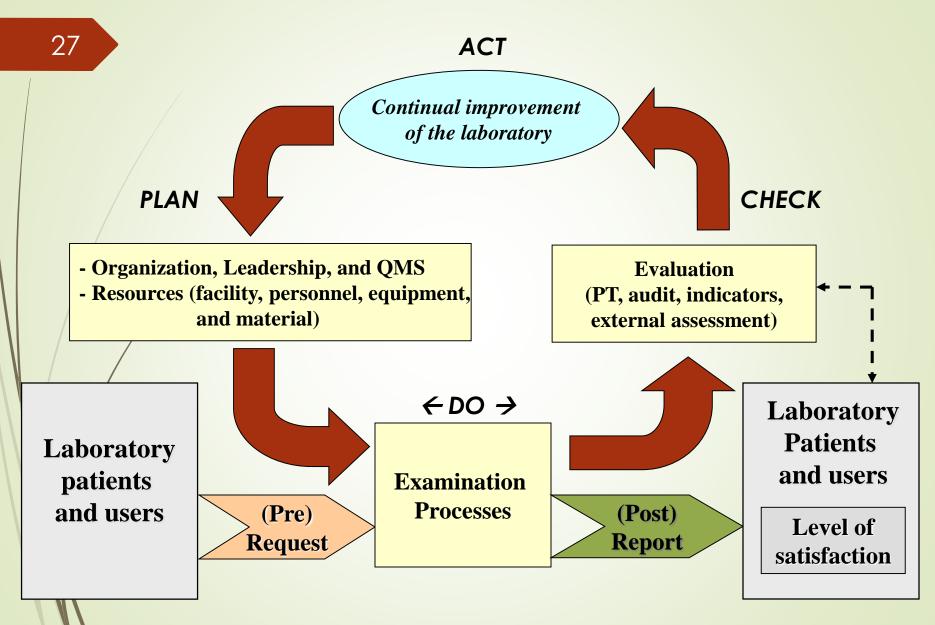
- B. Apply, track and manage the Cost of Quality
- C. Conduct meaningful management review
- D. Get accredited



How to Bring More Benefit to Your QMS

A. Think "PDCA"

A PDCA Perspective on a QMS



"Live" in Your QMS

The QMS is how to manage your laboratory.

The QMS <u>is not</u> meant as something to trot out for external accreditation assessors!

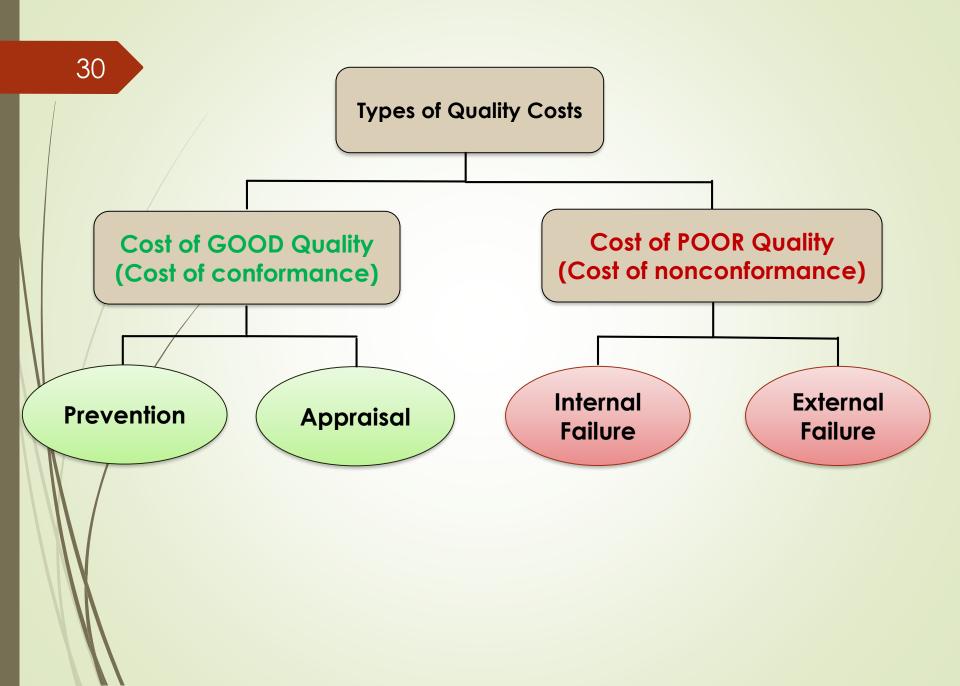
- Identify where, in the QMS, requirements...
 - need to happen
 - have happened
 - should have happened.
- Adjust the processes and procedures as needed.



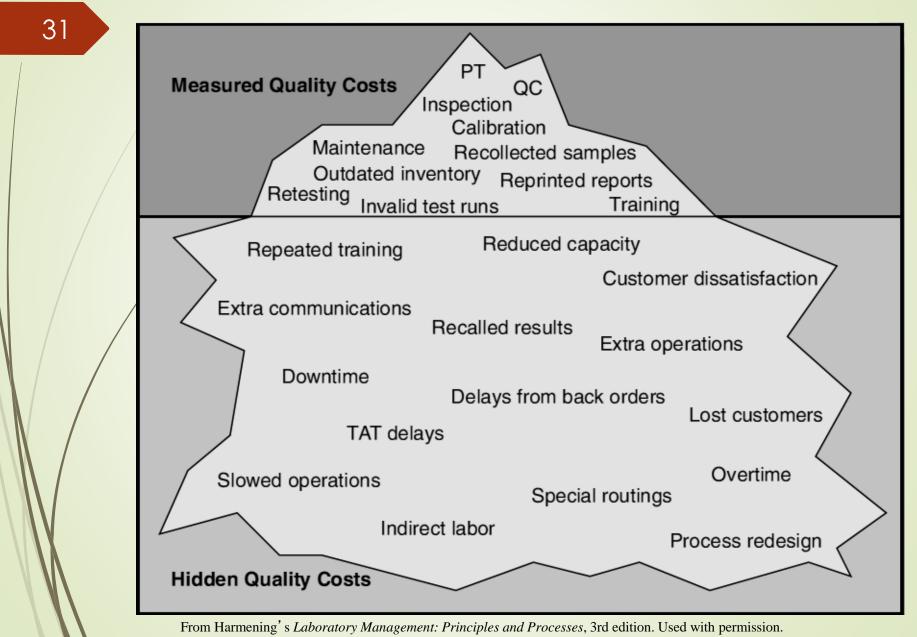
How to Bring More Benefit to Your QMS

A. Think "PDCA"

B. Apply, track and manage the Cost of Quality



Managing Quality Costs



How to Bring More Benefit to Your QMS

A. Think "PDCA"

- B. Apply, track and manage the Cost of Quality
- C. Conduct meaningful management review

How Often Do You Do Management Review?

Once a year because that's all that's required

33



Quarterly – to be sure we stay on top of improvements

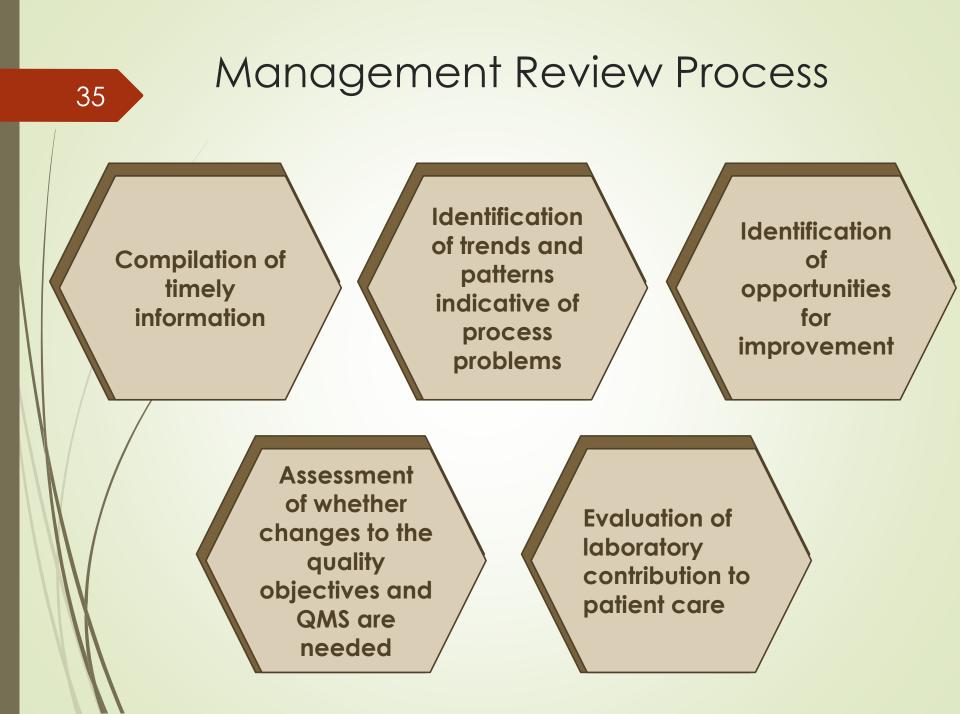


Management Review Inputs*

- Preexamination
- User feedback
- Staff suggestions
- Internal audits
- Risk management
- Use of quality indicators
- External organizations
- PT program results

- Complaint monitoring
- Supplier performance
- Nonconformities
- Improvement activities
- Follow-up from previous management review
- Workload changes
- Recommendations for improvement

34





Management Review Outputs

Records of decisions made and actions taken

> Communication to laboratory personnel

> > Actions completed within defined timeframe

How to Bring More Benefit to Your QMS

A. Think "PDCA"

- B. Apply, track and manage the Cost of Quality
- C. Conduct meaningful management review

D. Get accredited







Road construction sign, Singapore

"Prepare and prevent – OR – repair and repent."



Resources

 CLSI. QMS01, 5th edition. A Quality Management System Model for Laboratory Services

CLSI Guidelines QMS02 through QMS24 Guidance for implementing a Igboratory QMS

CLSI. QMS25.

Handbook for Developing a Laboratory Quality Manual

CLSI Key to Quality.

Fundamentals for implementing a QMS in the clinical laboratory

Burnett David. A Practical Guide to ISO 15189 in Laboratory Medicine

http://www.acbstore.org.uk/site/ product.aspx?productuid=25725 3&clickproductonpage=/site/cat egory.aspx?categoryid=39



- A2LA instructor-led and e-learning training
- CAP QMEd modules, tools, and templates