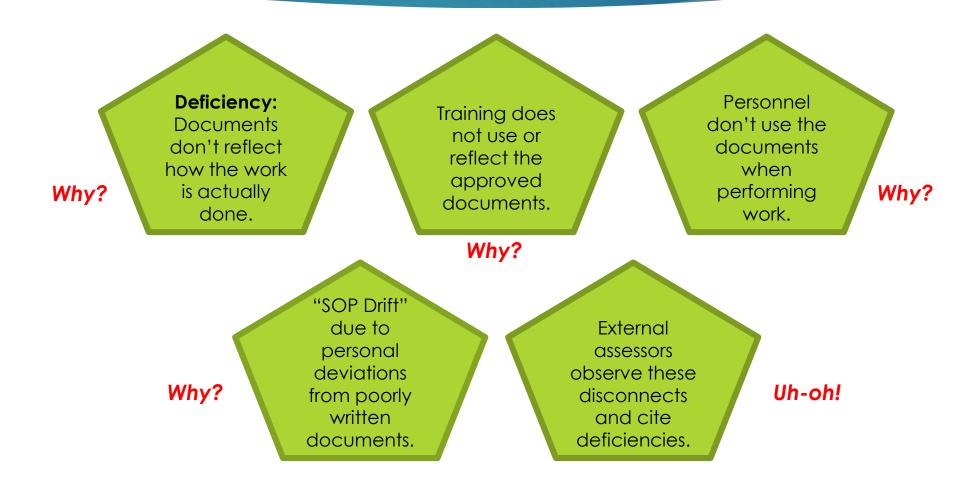
Why Your Documents Can Make or Break Your QMS and What You Can Do About It

Lucia Berte

LABORATORIES MADE BETTER!

Why Documents Break Your QMS



Document Demo 1.

LOCKOUT / TAGOUT ON ELECTRICAL EQUIPMENT

- A. For circuit breakers that have lockout capability, you must use locks for each circuit breaker disconnect switch.
- (1) Get the appropriate number of locks and tags.
- (2) Prepare the lockout tags and lockout and tagout the necessary circuit breaker.
- (3) Disconnect the switches.
- (4) Turn disconnect switches to the "Off" position.
- (5) Lockout the switches and attach lockout tags.
- B. IMPORTANT: WHEN DISCONNECTING SWITCHES ALWAYS STAND TO THE HINGED SIDE OF ANY BREAKERS AND FACING THE OPPOSITE DIRECTION BEFORE TURNING THEM OFF.
- C. For circuit breakers that do not have lockout capability, you will need to use tagging.
 - (1) If tagging will provide the same level of safety as using a lock, then you can use a tag without a lock as long as you also take supplemental measures to ensure adequate safety. These measures would include removing isolating circuit elements or blocking control switches.
 - (2) Stand to the hinged side of any breakers and face the opposite direction before using.
 - (3) Turn disconnect switches to the "Off" position.
 - (4) Attach tags

ONLY A QUALIFIED PERSON CAN LOCKOUT AND TAGOUT CIRCUIT BREAKERS. IF YOU ARE NOT QUALIFIED TO PERFORM A LOCKOUT / TAGOUT, YOU MUST FIND A QUALIFIED PERSON TO COMPLETE THE PROCEDURE.

How Documents Break Your QMS: CLIA is Not a QMS!

§493.1251 Standard: Procedure Manual.

(a) A written procedures manual for all tests, assays, and examinations performed by the laboratory must be available to, and followed by, laboratory personnel.

Only Half of a QMS is Testing

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

CLIA 14 Elements and QMS Documents

| # | Element | ? | |
|---|--|------|--|
| 1 | Patient preparation | NA | |
| 2 | Microscopic examination | NA | |
| 3 | Steps, calculations, and interpretations | nd s | |
| 4 | Reagent and materials preparation | NA | |
| 5 | Calibration and verification | NA | |
| 6 | Reportable range | NA | |
| 7 | Control procedures | NA | |

| # | Element | ? |
|----|----------------------------|----|
| 8 | Corrective actions | NA |
| 9 | Method limitations | NA |
| 10 | Reference intervals | NA |
| 11 | Alert or critical values | NA |
| 12 | Literature references | NA |
| 13 | Result reporting | NA |
| 14 | Test system unavailability | NA |

So It's No Wonder Then....

Half of a QMS is management, for which there are rare requirements for documented processes and procedures.

Management documents do not reflect the order in which QMS activities actually happen.



How many of you still say "policyandprocedure"?

Document Requirements

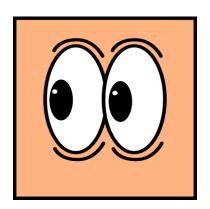
CAP
Lab General
GEN.20375
"The lab has a
document
control system
to manage
policies,
procedures and
forms..."

CAP
All Common
COM.10000 COM.10500
"...technical
policies and
procedures
"

•••

What You Can
Do About It

LOOK AT
OLD THINGS
IN A NEW
WAY

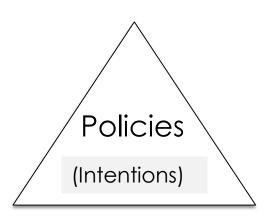


Did You Know That There Are...

4 Types of Documents **Policy Process Procedure Form**

The Truth About Laboratory Documents:

4 Document Types



Policy as a Document

Policies contain statements of intent.

"We maintain and manage paper-based and electronic documents."

Policies About What?

- Ethics, impartiality, confidentiality
- Customers
- Safety
- Personnel
- Suppliers and purchasing
- Equipment management

- Document management
- Records management
- Information management
- Nonconforming events management
- Measurement and monitoring
- Continual improvement

Then What Happens?

Policies contain statements of intent.

"We maintain and manage paper-based and electronic documents."

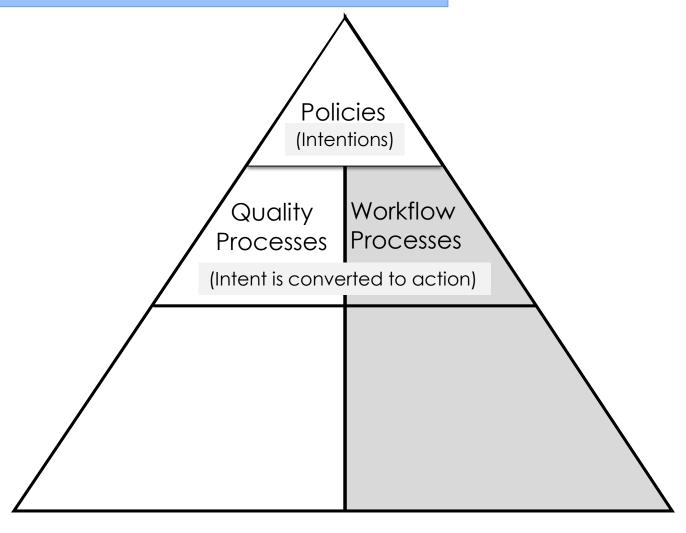
How do we turn intent into action?

What's Missing?

PROCESS - as a document not scattered and buried inside "CLIA SOPs"

The Truth About Laboratory Documents:

4 Document Types - Processes



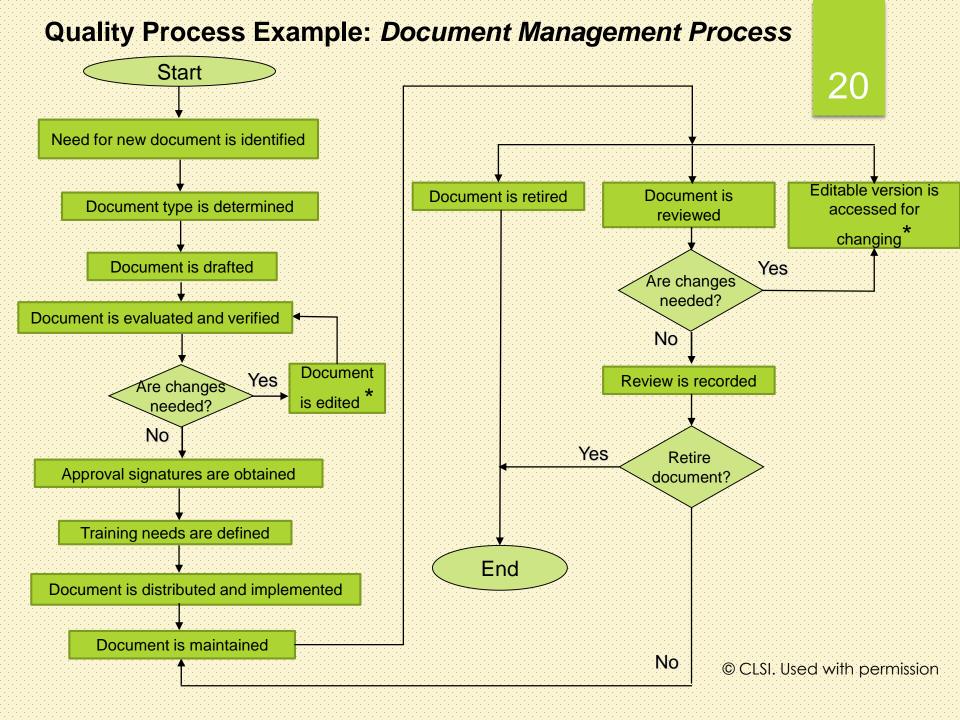
Management Process as a Document

Policy Statement

"We maintain and manage paper-based and electronic documents."

"HOW do we maintain and manage our paper-based and electronic documents?"

Who does what and when?



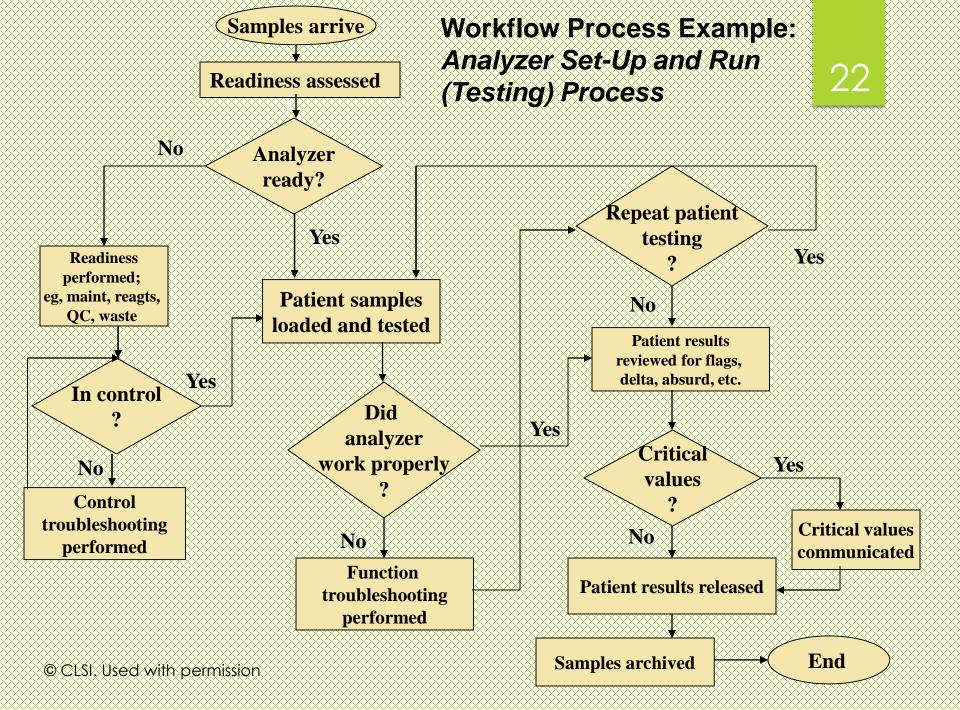
Technical Process as a Document

Policy Statement

"We follow documented and validated processes for laboratory testing."

"HOW does automated testing happen in our laboratory?"

Who does what and when?



Analyzer Testing is NOT an SOP!

- Work truly progresses in the order shown on the flowchart
 - ▶ Not in the CLIA 14-point order
- Actual work progression is different from the CLIA 14-point SOP
 - Activities-based vs analyte details
- Work documents should contain only what is done <u>at that time</u>.
 - Work done at other times should be in other documents!

The Truth About Laboratory Documents:

4 Document Types - Procedures

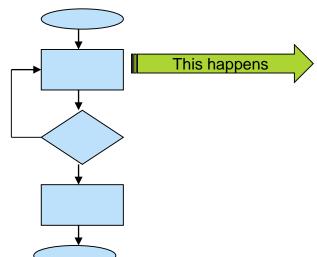


Process

vs. Procedure







| Step | Action | |
|------|---|--|
| 1 | Label the tube with the patient's initials. | |
| 2 | Add 2 drops of patient plasma to the tube. | |
| 3 | Add 3 drops of Reagent A to the tube. | |
| 4 | Mix gently by swirling. | |
| 5 | Incubate for 15 minutes at 37 °C. | |

Document Demo 2.

Performing Lockout/Tagout on Electrical Equipment

Lockout/tagout procedure

This table describes how to perform lockout/tagout on electrical equipment.

Procedure table makes sequential action steps clear and visible and keeps readers oriented.

| Step | Action | | |
|------|--|--|--|
| 1 | Are you qualified to lockout and tagout circuit breakers? | | |
| | If yes, go to the next step. | | |
| | If no, have a qualified person complete the procedure. | | |
| 2 | Determine whether each circuit breaker associated with the | | |
| | equipment or process to be mainta | ined has lockout capability. | |
| | If the circuit breaker | Then | |
| | has lockout capability | get a lock for each circuit | |
| | | breaker disconnect switch, and | |
| | | go to Step 4 | |
| | does not have lockout capability | go to Step 3 | |
| | | Embedded | |
| | | decision tables | |
| 3 | For each circuit breaker that does r | not have lockout capabil tyclarify different | |
| | determine whether tagging alone will provide the same level of safets of a | | |
| | as using a lock. | | |
| | 3 | | |
| | If tagging will | Then | |
| | provide the same level of safety | take supplemental measures | |
| | as using a lock | to ensure adequate safety. | |
| | | Examples: remove isolating | |
| | | circuit elements or block control | |
| | | switches. | |
| | not provide the same level of | shut down <i>all</i> sources of | |
| | safety as using a lock | electrical generation | |
| | | • | |
| 4 | Get a tag for each breaker. | | |
| 5 | Prepare the tags. | | |
| 6 | Lockout and tagout the necessary circuit breakers and disconnect | | |
| | switches. | | |
| | | breakers and face in the opposite | |
| | direction before turning them of | off. | |
| | direction before turning them t | | |
| | Turn disconnect switches to the | | |

Procedure Examples

Quality Procedures

- Correcting a result on a
 - paper document
 - electronic document
- Reporting a nonconforming event
- Conducting an internal audit
- Delivering training
- Revising a document

Technical procedures

- Performing a venipuncture
- Accessioning a specimen
- Performing a manual urinalysis
- Troubleshooting an instrument problem
- Reviewing QC results
- Reporting an alert or critical value

Mhhs Mhhsisis

- Why write documents that don't reflect the way work is actually done?
- Why make it hard for personnel to do the right thing?
- Why is pleasing an inspector more important than providing personnel with clear instructions?
- Why can't we understand that the primary users of laboratory documents are its <u>personnel?</u>

The Truth About Laboratory Documents:

4 Document Types: Forms → Records



Completed Blank Forms Become Records

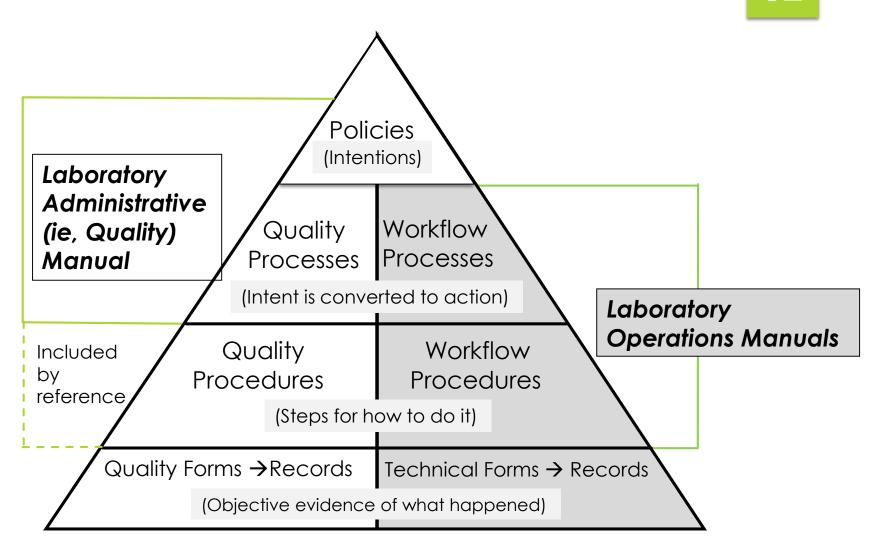
Forms

- Should be laid out in the order in which results are obtained
 - During the process
 - During a single procedure
- Include pertinent instructions
- Be as simple as possible
- Labels are a type of form

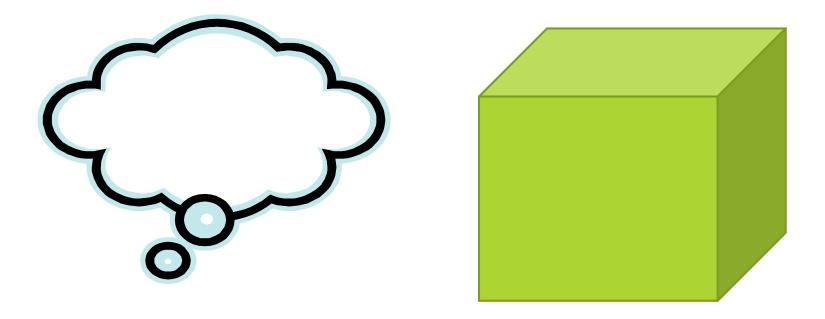
Records

- Contain results from performing procedures
 - Paper recording
 - Electronic entry or transmission
- Become objective evidence of whether requirements were met
- Vital tools for internal audits and external assessments

QMS vs Technical Documents: How to organize in a way that makes sense



What is this slide saying?

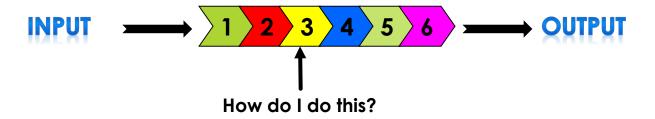


"Everyone doing his best is not the answer. It is first necessary that people know what to do."

W. Edwards Deming

"If you can't describe what you are doing as a process then you don't know what you are doing."

W. Edwards Deming



Resources

- CLSI. QMS02, 6th edition Development and Management of Laboratory Documents
- CLSI. QMS18, 1st edition Process Management
- CLSI. QMS01, 5th edition Quality Management System: A Model for Laboratory Services

- CLSI. QMS25, 1st edition Handbook for Developing a Quality Manual
- https://www.informationmap ping.com/en/informationmapping/informationmapping/examples