

Process Management Framework: Guidance to Successful Implementation of Processes in Clinical Development

October 8, 2019 10am -11.30am EDT 8pm - 9.30pm EDT

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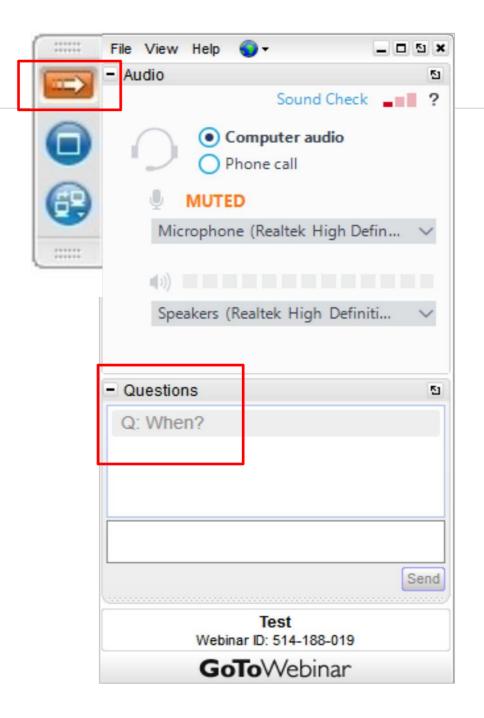
Logistics for this Webinar

All participants will be muted for this call.

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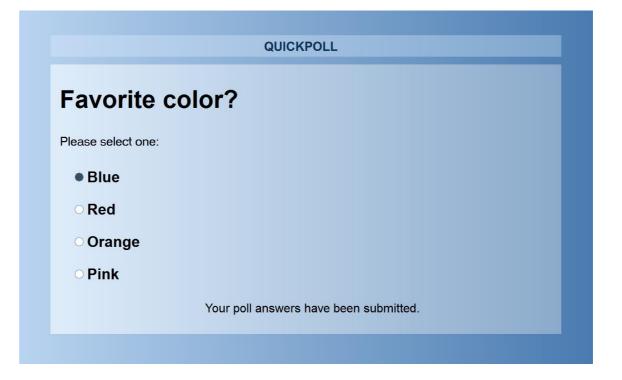




Logistics for this Live Polling

To help make this session interactive and facilitate sharing of useful information, we will conduct live polls throughout the session. Your participation is completely **voluntary** and all responses will be **anonymous**. Answers will be shared only as a percentage of respondents.

Instructions: When the blue poll question appears, enter your response and submit.





Ground Rules

We want to make this discussion helpful and answer as many of your questions as we can, so some quick ground rules:

- Participation is voluntary, as is using TransCelerate assets / tools
- You don't have to identify what company you work for
- Things we would ask you not to discuss:
 - What vendors / sites / CROs you are using or not using
 - Any issues you have with any vendors / sites / CROs
 - Your long term development plans
 - Anything related to costs
- We can't answer questions about:
 - Vendors
 - Costs of using / implementing TransCelerate assets / tools
 - Which member companies are using the assets / tools



AGENDA

TransCelerate Overview & QMS Framework (10 Mins)

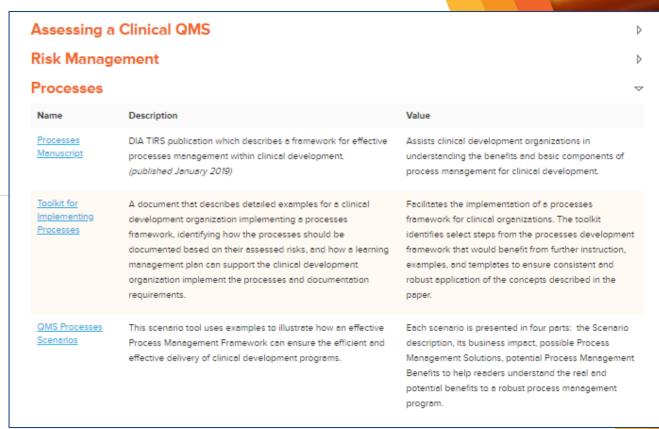
Process Management Framework (30 Mins)

Q&A (5 Mins)

Process Toolkit & Scenarios (30 Mins)

Q&A/Audience Poll (15 Mins)

All slides will be made available after the webinar



Materials to be Covered Today:

- 1. Processes Manuscript
- 2. Toolkit for Implementing Processes
- 3. Process Scenarios

>>>

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Gloria McHugh

- Webinar Operations Lead
- Project Manager TransCelerate

Overview of TransCelerate & QMS Framework

TransCelerate:

A Not-for-Profit Entity Created to Foster Collaboration

Our Shared Vision:

To improve the health of people around the world by accelerating and simplifying the research and development of innovative new therapies.



Current state of organization

















Regeneron most recent member





including 4 pharmacovigilance initiatives



BREADTH & DEPTH

Over 30 solutions being delivered across 25+ initiatives, across 3 strategic priorities



ENHANCING INDUSTRY COLLABORATION

With an effective and proven governance structure have increased the ease and desire to collaborate



FACILITATING FUTURE PLATFORM TRIALS

12+ initiatives deliver solutions that facilitate future platform trials





The Reach of our Global Membership is Expanding



Membership is available to biopharmaceutical research and development organizations that engage in innovative discovery, development and manufacturing of new medicines*.









































There are

OVER

1,000

PEOPE

from Member Companies that design and develop TransCelerate solutions.





Our Presence, Impact and Engagement is Worldwide

Our Country Network spans

COUNTRIES, and

GLOBAL REGULATORY AUTHORITIES

have engaged with TransCelerate.







EMA



Health Canada























TGA

TransCelerate's Clinical Quality Management System Framework Purpose

A Clinical QMS is an <u>integrated</u> framework through which organizations systematically define quality objectives linked to their broader strategic goals

Purpose of the Clinical QMS

- + Efficiently achieve an organization's quality and organizational objectives.
- Reduce recurring quality-related issues that undermine patient safety and data integrity, and consume resources.
- Increase confidence in clinical research and its results.
- + Integrate individual trial-level quality and risk management activities to provide a holistic view of whether clinical quality objectives are being met, and risks to subjects and data quality are appropriately addressed across the enterprise.





Ann Meeker-O'Connell, Maria Magdalena Borda, Janis A. Little, Leslie M. Sam, "Enhancing Quality and Efficiency in Clinical Development Through a Clinical Development through a Clinical QMS Conceptual Framework: Concept Paper Vision and Outline," Therapeutic Innovation & Regulatory Science, p. 8. June 2015. http://dij.sagepub.com/content/49/5/615.abstract

TransCelerate's Clinical QMS Conceptual Framework

The framework includes elements that through our research and interviews, were reported to contribute to success in the clinical arena

- elements integrate quality into clinical development activities
- elements provide foundational aspects
- elements provide ongoing monitoring of the achievement of quality objectives and the performance of a QMS





Examples of TransCelerate cQMS Conceptual Framework Alignment with ICH E6 R2

ICH E6 R2 Language	cQMS Element	Tools
5.0 Quality Management. "The Sponsor should implement a system to manage quality throughout all stages of the trial process."	Clinical QMS Framework	 Assessing the CQMS Tool Assessing Clinical Knowledge Management Tool Toolkit for Implementing Processes Etc
5.0.1 Critical Process and Data Identification. "the sponsor should identify those processes and data that are critical to ensure human subject protection and the reliability of trial results."	Processes	
5.0 "The quality management system should use a risk-based approach " 5.0.1-5.0.7 Risk Identification, Evaluation, Control, Communication, Review and Reporting. "the sponsor should identify risks to critical trial processes and data."	Risk Management	
5.0.7 Risk Reporting. "The sponsor should describe the quality management approach implemented in the trial and summarize important deviations from the predefined quality tolerance limits and remedial actions taken in the clinical study report."	Issue Management	
5.0.6 "The sponsor should periodically review risk control measures to ascertain whether the implemented quality management activities remain effective and relevant, taking into account emerging knowledge and experience ."	Processes, Risk Management, Knowledge Management, Management Review	
5.2 Contract Research Organization . "The sponsor should ensure oversight of any trial-related duties and functions carried out on its behalf, including trial-related duties and functions that are subcontracted to another party by the sponsor's contracted CRO(s)."	Partnering	

Deeper Dives into the Elements



>28,000 Downloads



Conceptual Paper (All Elements, FAs)*

- Manuscript July 2016
- Supportive Tools Aug 2017



Issue Management*

- Manuscript July 2016
- Supportive Tools Aug 2017



Knowledge Management

- Manuscript September 2016
- Supportive Tools Aug 2017



Assessing the CQMS

Supportive Tool September 2017



Risk Management

- Manuscript January 2019
- Supportive Tools March 2019



Processes:

- Manuscript January 2019
- Supportive Tools March 2019



Foundational Aspects

Understand the Context

Leadership Commitment to Quality Organizational
Commitment to Quality

Continual Improvement of the Framework

*Chinese Translation





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- Lead author of the Process Management Framework paper



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- QMS Team Member Process Management Framework

Process Management Framework

PUBLICATION

TransCelerate published article Quality Process Management Framework

Therapeutic Innovation & Regulatory Science 2019, Vol. 53(1) 25-35

TransCelerate Special Section: Original Article

Process Management Framework: Guidance to Successful Implementation of Processes in Clinical Development

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DIA

Therapeutic Innovation & Regulatory Science 2019, Vol. 53(1) 25-35 © The Author(s) 2019 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/2168479018817751 tirs.sagepub.com

Abstract

Clearly defined, documented, and managed processes form the foundation for how we effectively develop medicines for our patients. For this reason, process has been identified as a primary "element" of an effective quality management system (QMS) as described in the TransCelerate clinical quality management system (CQMS) conceptual framework. The importance of identifying and effectively managing processes is also emphasized in ICH GCP E6 (R2) in the new Section 5.0 Quality Management. An effective process management framework is fundamental to ensure the efficient and effective delivery of clinical development programs, enhance quality and productivity, and ultimately benefit our ability to deliver needed treatments to patients. The aim of this paper is to provide a conceptual process management framework to be used as guidance for effective process mapping, process documentation, implementation of optimal learning methods, and ensuring ongoing process performance evaluation and continuous improvement.



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Polling Question #1

Question: How aware of the TransCelerate Process Management manuscript and tool are you?

- Not aware at all
- □ Somewhat aware
- Very aware

Polling Question #2

Question: How mature do you consider Process Management in your organization?

- □ Not mature
- Somewhat mature
- Very mature

Processes

What is "Processes"

 Understanding the steps an organization carries out to complete a Clinical Development activity, determining whether and to what degree these steps should be documented, and importantly, determining the most effective training to ensure consistent and compliant process outcomes

Value Proposition

- Focus on end-to-end clinical development process approach provides greater assurance of meeting customer requirements
- Documentation strategy is commensurate to level of inherent risk
- A modern learning approach should be leveraged to best enable staff to perform their tasks



Moving from a Conventional Approach to a Process Approach

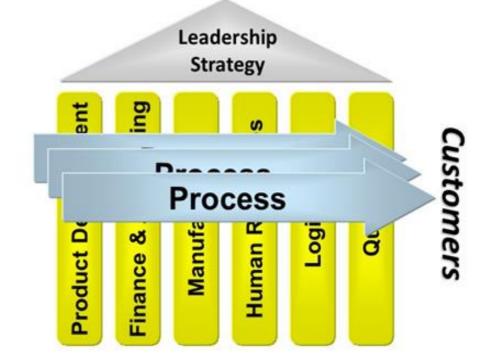
Conventional Organizational Structure



Functions

Hierarchical Control, Vertical Role Clarification, Functional, Large

Customer-Driven Organizations



Functions

Speed, Functional Integration and Line-of-Sight to Customer



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Processes Management Framework

Define and Characterize
Processes

- ✓ Identify High Level E2E Process Landscape
- ✓ Identify and Establish Business Process Owner
- √ Map and Model Process
- ✓ Determine Process Risk
- ✓ Evaluate Process
 Automation
- ✓ Identify Process Measures and Controls

Determine Process
Documentation
Strategy

- ✓ Begin with Process Map
- ✓ Identify Processes requiring "Controlled" documentation
- ✓ Identify "Managed"
 Information required for
 Performance
- ✓ Align Documentation to E2E Process and Documentation Hierarchy
- ✓ Communicate Process Change

Drive Flawless Execution
Through Optimal
Learning Approach

- Select Optimal Learning method and time
- ✓ Select Learning approach for "Controlled" and "Managed" Information
- Manage training volume and avoid cognitive overload

Monitor and Improve Process Performance

- ✓ Evaluate Process Health Performance as part of Management Review
- ✓ Assess Impact of ongoing Process Changes
- ✓ Complete periodic review of Process



Define and Characterize
Processes

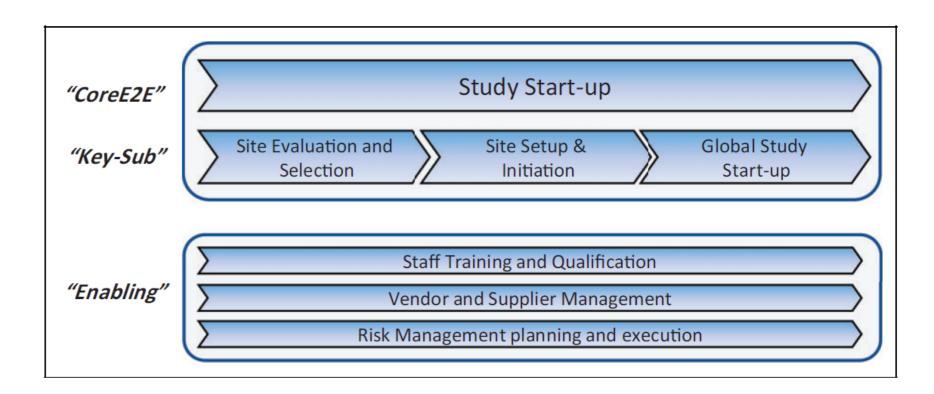


✓ Identify and Establish Business Process Owner

Core Process - a set of crossfunctional activities or steps that deliver a specific output that impacts strategic business objectives

Key Sub-Process – constitutes the sum of the core processes

Enabling Process – doesn't necessarily belong to any one core or key sub-process, but is essential to conduct work



Identify **Business Process Owners** for processes to be a single point of ownership that drives process health and continuous improvement.

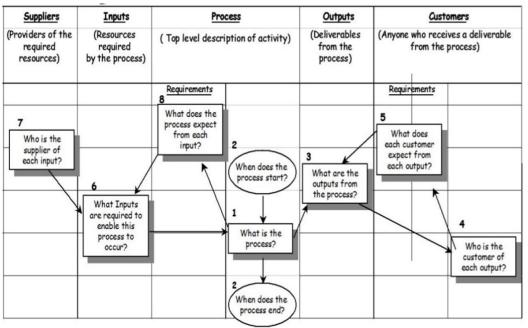


Define and Characterize Processes



Map and Model Process

SIPOC



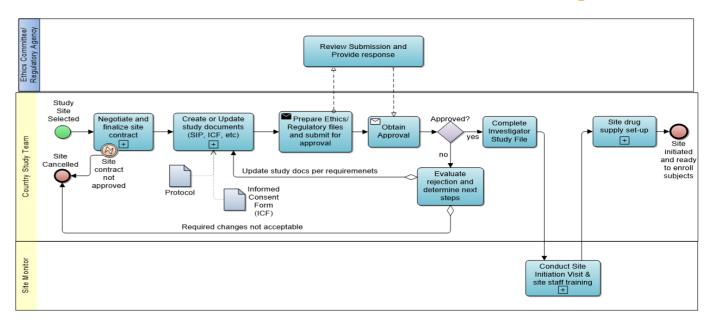
GOAL

To provide a high-level understanding of the process as it relates to:

- the customer (anyone who received a deliverable or output from the process)
- inputs (resources required by the process)

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Swim Lane / Process Map



GOAL

To show the details of the process and identify the following:

- Key milestones or activities •
- Roles / responsibilities
- Handoffs
- Inputs / outputs

- Interdependencies
- Associated information
- inputs (resources required by the process)



✓ Determine Process Risk



Evaluate Business Process Automation

Identify Level of Risk

- risks to the protection of human subjects
- data integrity/reliability of trial results
- meeting quality objective

Increased Risk = Increased Control

Control or Mitigate Risks

- Increase detectability:
 - Monitoring
 - **Metrics**
 - **Controlled documentation**
- Avoid risk:
 - Remove the source of risk
 - Redesign a process
 - Implement error-proofing techniques





Identify Process Measures and Controls



Identify Effective Process Measures

- Define what critical to quality (CTQ) and how to measure it
- **Determine performance targets**
- Identify ownership for each metric



Processes Management Framework

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Determine Process

Documentation

Strategy

- ✓ Begin with Process Map
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- ✓ Communicate Process Change

I rive Flawless Execution
Through Optimal
Learning Approach

Select Optimal Learning method and time

Select Learning approach for "Controlled" and "Managed" Information

Manage training volume and avoid cognitive overload Monitor and Improve Process Performance

- Evaluate Process Health Performance as part of Management Review
- ✓ Assess Impact of ongoing Process Changes
- ✓ Complete periodic review of Process



Determine Process Documentation Strategy



Identify Processes Requiring Controlled Documentation



✓ Identify Managed Information Required for Performance

DOCUMENTATION STRATEGY

- Ensures that documentation represents the actual end-toend process
- Should be easy to understand and follow
- Identifies the right level of controls and quality oversight

Quality Managem System (QMS)

Controlled **Documentation**

Explicit (documented) knowledge that is managed in a QMS to support document authoring, approval, and versioning

Managed Information

Tacit (experience and insight) knowledge that is not managed in a QMS, but ensures staff has the right information and knowledge needed to execute the proces

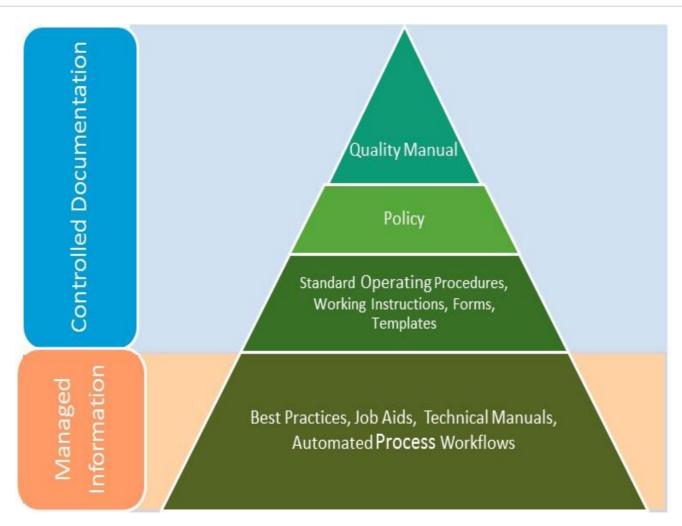


Determine Process

Documentation

Strategy





NOTE: This figure is for guidance only. The specific documentation types are for illustrative purposes only. Individual company naming conventions may differ.



Determine Process Documentation Strategy



✓ Communicate Process Change

Communication Prior to Implementation





Processes Management Framework

Define and Characterize
Processes

- Determine Process

 Documentation

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Learning Approach

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Select Learning Method and Time



Select learning delivery based on:

- Organizational Culture
- Documentation
- Knowledge required
- Experience and Target Size of Audience
- Complexity of the Process

Determine timing of training delivery

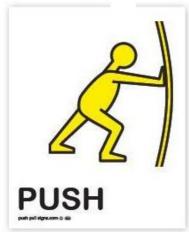
- Consider providing training as close to execution as possible to maximize effectiveness
- Consider resource limitations (LMS and people)







Select Learning Approach for Controlled and **Managed Information**





Mandatory training based on controlled information: Training is delivered automatically to affected users

- Includes learning modules critical for an individual to execute his/her job
- Employee needs to demonstrate effective training was completed prior to executing related tasks



Voluntary training based on managed information:

- Training can be requested by users when there is need or interest
- Knowledge centers can be set up to make content easy to access





Manage Training Volume to Avoid Cognitive Overload

- Focuses on responsibilities in a process
- Understand role in E2E process

Role-Based **Training**

Risk-Based **Training** • Focuses on high risk elements to ensure full understanding

- Provides consistency to process
- Reduces need for users to remember steps or dependences

Automation

Delta **Training**

- Targeted training for experienced users
- Focuses only on changes



Processes Management Framework

Define and Characterize
Processes

Determine Process

Documentation

Strategy

Drive Flawless Executic n
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Monitor and Improve Process Performance

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Monitor and Improve Process Performance



Evaluate Process Health Performance as Part of Management Review

Management Review

PURPOSE

- To assess whether a QMS as a whole is performing as intended
- To provide opportunity for ongoing due diligence by senior management

OBJECTIVES

- Engage senior management in the evaluation of processes
- Take action / allocate resources to improve processes when needed
- Review key performance indicators (KPIs) to measure quality and compliance



Monitor and Improve Process Performance



Create or modify processes for the following reasons:

- Address changes in the underlying process
- Address evolving customer requirements
- Address changes identified by audit findings
- Mitigate risks to quality objectives

Assess the impact of the changes:

- Understand the overall impact that the process change may have on other "upstream" or "downstream" process
- Identify conflicting or overlapping priorities associated with the change



Monitor and Improve Process Performance

✓ Monitor and Improve Process Performance

Fit for Consult BPO / SMEs **Purpose** PERIODIC Compliance Review process against new or with **REVIEW** revised regulations / guidance Regulations

> QMS Elements

Identify issues or trends noted in other aspects of a QMS, such as risk, issue or knowledge management





Mike Husovich

- Director of Quality Operations, Amgen
- Lead author of the Process Management Framework paper



Carol Southwood

- Senior Project Manager, Amgen
- QMS Team Member Process Management Framework

Q & A

Type your questions for the presenters into the Questions panel on your GoToWebinar screen, click "Submit"



Lora Lee Zoller-Neuner

- Senior Quality Document Manager, Sanofi
- QMS Team Member Process Management Framework



Odette Anyangwe

- Head of Quality & Operations, Process and Procedures, Roche
- QMS Team Member Process Management Framework

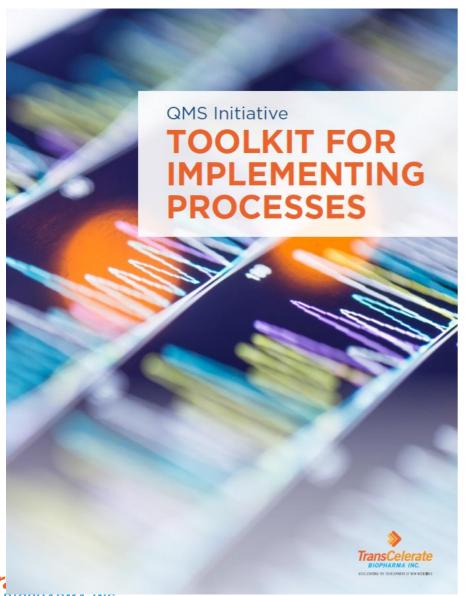


Carol Southwood

- Senior Project Manager, Amgen
- QMS Team Member Process Management Framework

Process Tool Kit & Scenarios

Process Toolkit



Purpose

- Supports the practical application of concepts described in the Process Management Framework paper
- Provides tangible examples of the process management framework in action beyond what's described in the paper
- Provides a way to both "think through" and develop an organization's processes and associated documentation strategy

Introduction

Define and Characterize Processes

- » Identify High Level End to End (E2E) Process
- » Identify and Establish Process Owner (BPO)
- » Map and Model Process
- » Determine Process Risk
- » Evaluate Process Automation
- » Identify Process Measures and Controls

Determine Process Documentation Strategy

- » Begin with Process Map
- Identify Processes requiring
 "Controlled"
 documentation
- » Identify "Managed" Information required for Performance
- » Align Documentation to E2E Process and Documentation Hierarchy
- » Communicate Process Change

Drive Flawless Execution Through Optimal Learning Approach

- » Select Optimal Learning method and time
- » Select Learning approach for "Controlled" and "Managed" Information
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Monitor and Improve Process Performance

- » Evaluate Process Health Performance as part of Management Review
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How To Use The Toolkit

Read the Manuscript



Find the corresponding tool and examples



- Each of the steps in the framework are sequenced and built upon one another.
- Each of the highlighted steps corresponds to a section of the toolkit and are color-coded to match the high-level phase of the Process Management Framework.
- Each section is numbered and contains the following information:
- > Even pages: Instructions for completing the tool with an example(s)
- ➤ Odd pages: Interactive tool template that moves through each of the tool steps on the subsequent pages

- Identify High Level Process

 Identify all steps of an end to end (E2E) process by mapping core processes, sub-processes, and enabling processes.
- Map & Model Process

 Capture the SIPOC metadata
 (key process roles, inputs, outputs, interdependencies, and related documentation).
- Determine Process Risk

 Assess risks for processes by completing the assessment concerning Business Risk, Process Complexity Risk, and Process Operational Risk.

- Documentation Strategy

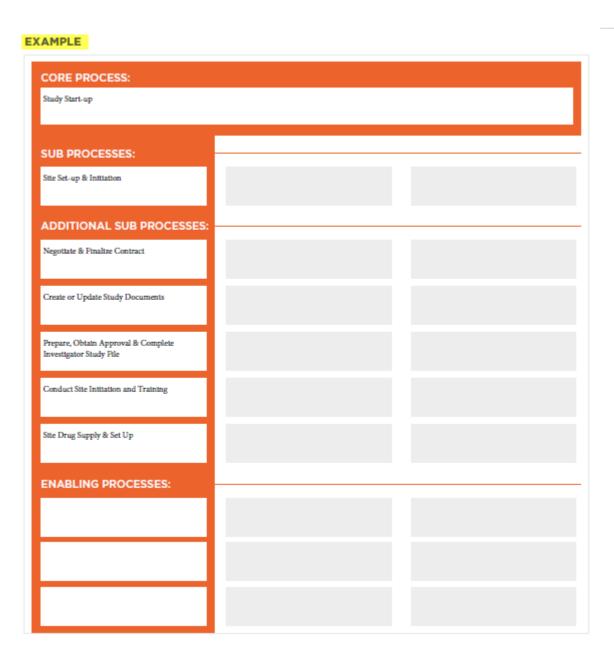
 Determine which processes require controlled documentation vs. managed information based on the process risk score.
- 5 Optimal Learning Approach
 Assess the Critical to Quality (CTQ) process and documentation to develop the Learning Plan for controlled documentation vs. managed information.
 - Management Review

 Evaluate process health performance as part of Management Review by defining line of sight goals, metrics, roles, frequency and forum.



Define and Characterize Processes

Identify High Level Process



Instructions

 Identify all steps of an end to end process

1 Identify Process Areas



Define and Characterize Processes

Map & Model Process

Supplier	Input	Process	Output	Customer
Identify the providers of the critical to quality inputs	Identify critical to quality inputs to the process	Use the additional sub-processes and enabling processes listed in section 1: Identify Process Areas	Identify the deliverables from the process	Identify the Internal Functions/External organisations who receive the outputs

EXAMPLE: SIPOC for Site Set-Up and Initiation

Supplier	Input	Process	Output	Customer
	Study Outline Study Protocol Draft Study Level Site Budget	Negotiate & Finalize Contract	Vendor Contract Statement/Scope of Work Study Site Contract & Budget	
	Study Outline Study Protocol	Create or Update Study Documents	Study Documents	
	Study Protocol Key Study Documents	Prepare, Obtain Approval & Complete Investigator Study File	Final & Approved Study Site Documents	
	Study Protocol Training Materials Key Study Documents	Conduct Site Initiation and Training	Site Activation Notification Approval to Ship Drugs to Site	
	Study Protocol Investigational Product Selected Vendor List	Site Drug Supply & Set Up	Packaged Investigational Product Drug Delivery System(s)/ Vendors	

Instructions

 Using a SIPOC, capture the metadata (key process roles, inputs, outputs, interdependencies, and related documentation).



Define and Characterize Processes

Determine Process Risk

Ю		Process Risk Matrix	
RISK CATEGORIES	Risk 1 Compliance	Risk 2 Process Complexity	Risk 3 Process Operational
LEVELS	High (5) Direct impact to Company or Product Quality, Patient Safety or Data Integrity/Reliability of Trial Results	High (5) Involves Global and local cross-functional area affiliates	High (5) Involves Service Providers with no Quality Agreement and/or Governance oversight in place
	Medium (3) Indirect Impact to Company or other health-related activities with no direct Impact on Product Quality, Patient Safety or Data Integrity	Medium (3) Involves multiple functional areas	Medium (3) Involves Service Providers with Quality Agreement and/or Governance oversight in place
	Low (1) No Impact to Company or Product Quality, Patient Safety or Data Reliability	Low (1) Involves one functional area only (e.g. Clinical, Safety, Regulatory affairs etc.)	Low (1) Does not involve Service Provider
SCORE	High (5) Medium (3) Low (1)	High (5) Medium (3) Low (1)	High (5) Medium (3) Low (1)

EXAMPLE: Process Risk Template

Process	Risk 1 Compliance	Pr	Risk 2 ocess Comple	xity F	Risk 3 Process Operati	onal	Overall Risk Scores
Negotiate & Pinalize Contract	3	+	1	+	1	=	5
Create or Update Study Documents	3	+	3	+	1	=	7
Prepare, Obtain Approval & Complete Investigator Study File	5	+	5	+	3	=	13

Instructions

- For each process, select the appropriate risk level for each of the three Risk Categories in the Process Risk Matrix.
- Overall Process Risk Score is determined by adding the corresponding numeric value for each of the Risk

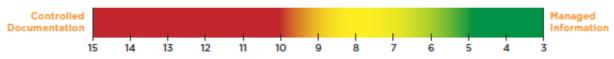
Click here to view complete example

Documentation Strategy

Identify Processes Requiring Controlled Documentation Identify "Managed" Information Required for Performance

Controlled Documentation	Managed Information
Describes process and business requirements	Describes process at the level of execution

Figure 1: Processes requiring controlled documentation vs. managed information.



Note: Additionally managed information may be used when key roles, systems, and activities need to be described to support controlled documentation.

EXAMPLE

Process	Overall Risk Scores	Controlled Documentation	Managed Information
Negotiate & Finalize Contract	5		Job Aid ✓
Create or Update Study Documents	7	Standard Operating Procedure	Job Aid ✓
Prepare, Obtain Approval & Complete Investigator Study File	13	Standard Operating Procedure	Job Aid ✓
Conduct Site Initiation and Training	11	Standard Operating Procedure	
Site Drug Supply & Set Up	13	Standard Operating Procedure	Decision Tree

Instructions

 Apply the score from the "Determine Process Risk" tab to determine which processes documentation hierarchy.



Learning Approach

Select Learning Method and Time Select Learning Approach for "Controlled" and "Managed" Information Manage Training Volume and Avoid Cognitive Overload

Figure 1: Learning Plan for Process and Documentation

Learning Plan			Location	Key Roles
Select the Focus of training: Role- based, End-to-end, Risk, Delta (see Learning Plan and Performance Considerations table for additional context)	Select the Learning Method (see Learning Method and Definition table)	(e.g. List Kno	repositories for Controlled Documentation . LMS with mandatory assignment) repositories for Managed Information (e.g. wledge Hub accessed through search as ded)	Identify and list roles accountable for the execution of the process activities.
Learning Plan and Performance Considerations Training should be fit-for-purpose, value added and effective for the modern			Learning Method and Definition Instructor-Led Classrooms should be used when interact	tion with trainer and

Training should be fit-for-purpose, value added and effective for the modern learner (i.e., allows for mobility, searchable content, varying methods of delivery, modularized and engages through social collaboration).

- Controlled Documents/Managed Information out of alignment or redundant is made obsolete or appropriately archived.
- Learning activities should consider level of expertise. Knowledge checks can be used to advance a user through the training.
- Training should be developed to consider learning preferences (i.e., classroom, virtual, instructor-led, self-directed).
- Training development to consider resources (i.e., audience, location(s), timeline, budget and availability of technology).
- Assessments or knowledge checks should be used to successfully demonstrate an understanding of a concept or skill.

Instructor-Led Classrooms should be used when interaction with trainer and participants is important, guided discussions will lead to more learning, questions require immediate answers, individualization is not critical. Technology-based solutions such as a virtual classroom is an option.

On-the-Job Does not require a classroom but does require a knowledgeable trainer/ mentor and well-designed structure. Method should be used when the number of trainees is small, and the tasks are core to their role, change frequently or may involve non-movable equipment.

Self-Instruction/Self-Directed This method requires a well-designed structure and should be used when turnover is high, the content is stable, simulations or case studies are value added, feedback is not required, scheduling is difficult, the use of multiple media formats will enhance learning and can be developed properly. Interactive methods can incorporate virtual instruction. Note: Managed Information and Self-Instruction/Self-Directed learning are often used interchangeably.

EXAMPLE: Learning Plan for Process and Documentation

Process	Overall Risk Score	Controlled Documentation	Managed Informaton	Learnir Focus	ng Plan Method	Location	Key Roles
Negotiate & Finalize Contract	5		Job Aid	Role-based	Self-Instruction/Self	Sharepoint - Job Aid	Contract Facilitator Pricing and Payment Lead
Create or Update Study Documents	7	Standard Operating Procedure	Job Aid	Role-based	Self-Instruction/Self	• LMS - SOP - (required) • Sharepoint - Job Aid	Clinical Manager Functional Representative
Prepare, Obtain Approval & Complete Investigator Study File	13	Standard Operating Procedure	Job Aid	Role-based	Self-Instruction/Self	LMS - SOP (required)	Clinical Manager Clinical Monitor Study Planner

Instructions

 Assess the documentation strategy based on overall risk to develop a commensurate learning plan for identified key roles.



Management Review

Evaluate Process Health Performance as part of Management Review

Goal	Metrics	Role(s)	Frequency	Forum	Focus
E.g. Target or improvement you are trying to achieve, i.e. SMART format	E.g. Cost, Time, Quality	Person responsible for oversight and accountability of the process	Annually, Quarterly, Monthly	Decision making body made up of functional leadership responsible for Quality oversight.	Review metrics based on the forum frequency, i.e. escalation, mitigation or decision making

Strategic Goals Flow Down

Executive leadership sets high level process expectations, which will create goals for each sub-process with line of sight to meet overarching high level process expectations.

Process Capabilities Flow Up 🌣

As each lower level process continues to advance and mature, the effects flow upward to Improve the process above It.

EXAMPLE

	Goal	Metrics	Role(s)	Frequency	Forum	Focus
EXECUTIVE OVERS	SIGHT —					
Study Start-up	Improved Start Up Efficiency	9% Savings per Study	Sponsor & Executive Leadership	Annually	Steering Committee	Goal Setting & Collaboration
OPERATION OVER	SIGHT —					
Site Set-up & Initiation	Improve Target Enrollment Plan	9% Studies within target enrollment plan	BPO & Sponsor	Quarterly	Operations Review	Metrics & Performance
FUNCTIONAL OVE	RSIGHT —					
Site Drug Supply & Set Up	Improve Plan to Actual Target Date	# of days for approval of Supply Plan before Site initiation	BPO & Team	Monthly	Dashboard	Continuous Improvement Activities

Instructions

Evaluate process health performance as part of Management Review by defining line of sight goals, metrics, roles, frequency and forum.



Process Scenarios





Process Management Framework

SCENARIOS

TransCelerate Quality Management System

Initiative Process Management Sub-Team



Examples of Scenarios

Selecting an Organizational Structure

Unifying a fragmented process for protocol development by applying a process-centric approach

Controlled versus Managed Documents

Following the identification of core processes for site start up activities (scenario 2), an organization has no documented methodology for determining if process content should be in a controlled or managed document

Identifying E2E Processes

Identifying core, sub-processes, and enabling processes for site start up activities

Determining Training Needs

An organization is updating numerous procedures around study start up and is unsure what delivery type, detail level, and assessment of training is required

Mapping and Modelling a Process

An organization is seeing lengthy delays in the site start up process, specifically the part following ethics approval and prior to site activation

Identifying Process Measures and Controls

Following successful mapping of trial start up activities, the organization wants to develop metrics to monitor and improve each part of the process

Determining Process Risk

Following successful identification and mapping of site start up processes, an organization wishes to identify areas of risk so that mitigation steps can be built into the process

Management of Process Changes

Following unification of fragmented processes for protocol development (scenario 1), an organization needs to secure stakeholder "buy-in" and ownership to ensure ongoing support



Selecting an Organizational Structure

SCENARIO	An organization is structured in such a way that is organized and measured by departmental goals and objectives . Executive leaders operate as a team but are focused individually on their functions.
BUSINESS	This conventional approach serves the basic needs of the organization as it maintains hierarchical control, especially in the context of large organizations, but this does not serve the needs of the customerthe patient.
PROCESS MANAGEMENT POTENTIAL SOLUTION	A process or customer-driven approach – where an organization's focus remains on cross-functional process capabilities and serving the needs of the customers of the processes.
PROCESS MANAGEMENT BENEFITS	 Accountability: Focuses on overcoming functional area silos through single points of process accountability. Quality: Clearly defined processes, documentation, and training enable "right the first time" operations, improving quality and reducing risk. Compliance: Clearly defined processes give confidence to health authorities on sponsors' intentions of meeting regulatory requirements. Speed: Provides end-to-end performance management and "sightline" to customer.



Controlled versus Managed Documents

Using the QMS Initiative — Toolkit for Implementing Processes - Real World Scenario

Scenario:

Following the identification of core processes for site start up activities (scenario 2), an organization has no documented methodology for determining if process content should be in a controlled or managed document.

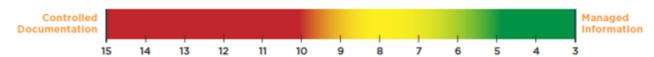
Problem:

Managed documents are key in that they enable individual functions to retain ownership of documentation around best practices, internal workflows etc. However, any high risk or key compliance aspects of a process require more robust control to ensure quality & compliance – if this balance cannot be determined, the organization risks consistency/quality issues and fragmentation of core compliance tasks across the document landscape.

Potential Solution:

Using the risk based approach, the organization will have much more confidence in the criticality of document content, and can use this to make the separation on where they are willing to "draw the line" in terms of what becomes managed information versus controlled information. Utilize the risk scorecard to make an assessment of the content of the document itself.

Figure 1: Processes requiring controlled documentation vs. managed information.



Note: Additionally managed information may be used when key roles, systems, and activities need to be described to support controlled documentation.



Note: Figures are for guidance regarding controlled documentation and managed information. The specific documentation types are for illustrative purposes only. Company naming conventions may differ.



Conclusion

- The Process Management Framework represents an integral part of an effective QMS.
- Common understanding of the steps required for implementation can provide greater organizational success in implementing process management in a robust way.
- Successful process management implementation will help to:
 - Identify and define key and critical processes associated with clinical development,
 - Provide clear and concise procedural documentation that are consistent and fit for purpose to support effective staff training,
 - Allow staff to excel at executing the executing the process "Right the First Time"
- This is "must have" for today's competitive landscape.



Resources Available

https://transceleratebiopharmainc.com/assets/quality-management-system-assets/



Foundational Aspects of Clinical QMS



TO DEVELOP AN EFFECTIVE AND EFFICIENT CLINICAL QMS, the organization should evaluate and understand the external and internal environment in which it operates. This evaluation will permit tailored development, refinement, and implementation of an organization's clinical QMS based on the unique aspects of the organization.

For more details on the elements of a Clinical OMS Framework, please review our paper, <u>TransCelerate's Clinical Quality Management System: From a Vision to a Conceptual Framework</u>

Overview Materials

Explore our materials for insight into the work and progress of the TransCelerate QMS Initiative:

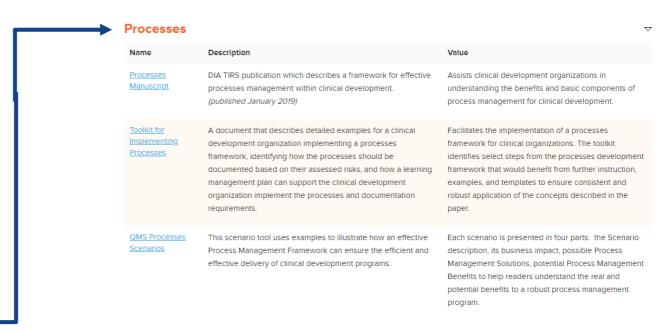


Clinical QMS Concept Paper	>
Issues Management	>
Clinical Knowledge Management	>
Assessing a Clinical QMS	>
Risk Management	>
Processes	>

Processes Manuscript

Toolkit for Implementing Processes

QMS Processes Scenarios





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Q & A

Type your questions for the presenters into the Questions panel on your GoToWebinar screen, click "Submit"

Polling Question #3

Question: Will the materials presented here today be helpful to you in your organization's Process Management activities?

- □ Definitely Yes
- □ Likely Yes
- ☐ I'm not sure
- □ Not likely
- □ Definitely Not

Polling Question #4

Question: How much value did this webinar provide?

- □ No value
- □ A little value
- Moderate value
- □ A lot of value





■ + □ □



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