



FDA Reflections on EMA Joint Regulator/Industry Workshop

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Overall Workshop Impressions

- Great format with regulators and industry
 - Good participation of all
- Impressive transparency
- Much progress with QbD implementation



HOW Should I Do QbD?

Main Themes and Concerns

Classifying criticality

Level of detail in process description

Design space verification

Level of detail in risk assessments

How to change non-CPPs

How to summarize control strategy

Discussed
In EMA-FDA
Q&As

Related to
Post-Approval
Change

Unclear Definitions

Non-CPP (not defined in ICH)

No potential to affect CQAs:

for any range?

within ranges studied?

within statistical significance?

Proven acceptable ranges (PARs)

Definitions other than ICH

How are they being used?

Model maintenance

OOS vs OOT

Regulatory commitments

What is filed?

How changes are reported?

Related to
Post-Approval
Change



Thoughts on Post-Approval Change

FDA is exploring “Regulatory Commitments”
Comparability Protocol guidance is being revised

EMA-FDA Pilot “Phase 2” being considered
Proposed FDA reorganization of drug quality units (Office of Pharmaceutical Quality)

What do regulators need?

EMA-FDA QbD pilot

Aim

- Allow EU and US assessors exchange their views on the implementation of ICH Q8-10 using actual applications and **facilitate harmonisation**
- **Share knowledge** gained with the EU network and Industry through lessons learnt
- Japan joined as an observer

Scope

- Submissions that include an enhanced approach to pharmaceutical development leading to the use of at least one of the following:
 - Design space,
 - PAT tools for control,
 - Continuous process verification,
 - Models to support real time release testing,
 - **continuous processes**
 - **post-approval regulatory flexibility,**

EMA-FDA QbD pilot

Two options:

Parallel assessment:
1 application
complete

- The application is submitted to both agencies at about the same time, for MAAs/NDAs for **parallel evaluation** by both agencies

Consultative advice:
Several ongoing

- The application is submitted to either EMA or FDA and the agency doing the evaluation requests to obtain **consultative advice** from the other agency

Type of products:

- **Chemicals**
- There are some informal interactions on biologicals as well.

EMA-FDA Pilot for QbD – Progress to Date

- Applications in program
 - 1 parallel assessment complete, another accepted
 - 5 consultative advice
 - 1 biotech product that followed the consultative advice pathway
- Meetings
 - Multiple teleconferences on applications and on general topics
 - 3 face-to-face meetings
- Communications
 - 2 sets of Q&As published, others being developed
 - Many conference presentations
- Japanese participation
 - Parallel assessment application and in multiple meetings
- Considering extension of pilot beyond March 2014

EMA-FDA QbD Pilot Question & Answers

- Two sets of Q&As have been published jointly as a result of the pilot (8/20/13 and 11/4/13):

http://www.ema.europa.eu/docs/en_GB/document_library/Other/2013/08/WC500148215.pdf

http://www.ema.europa.eu/docs/en_GB/document_library/Other/2013/11/WC500153784.pdf

- Topics include:
 - Expectations for Quality Target Product Profile (QTPP)
 - Expectations for Critical Quality Attributes (CQAs)
 - Classification of criticality in 3 tiers (e.g., Key Process Parameters)
 - Expectations for the manufacturing process description
 - Use of QbD for analytical methods (e.g., Analytical Target Profile (ATP) and Method Operational Design Ranges (MODR))
 - Design space verification

EMA-FDA Pilot Q&A - Design Space Verification

Design Space Verification Definition

Demonstration that the proposed combination of input process parameters and material attributes are capable of manufacturing quality product at commercial scale

Initial Design Space Verification

- Design space typically developed at laboratory or pilot scale
- Often initial commercial scale demonstration of design space solely at or near target/normal operating ranges (NORs)
- Not necessary to repeat all lab/pilot experiments at commercial scale

Design Space Verification Protocol

- Definition of the potential scale-up risks
- List of unverified scale-dependent parameters
- Discussion of control strategy related to scale-up risks
- Description of any additional controls

Differences:

- EMA recommends a design space verification protocol be submitted in Section 3.2.R
- FDA recommends a design space verification protocol be maintained at the manufacturing site, and that a high level description be provided in the application

http://www.ema.europa.eu/docs/en_GB/document_library/Other/2013/11/WC500153784.pdf

EMA-FDA Pilot – Next Steps

- We are considering extending the pilot to gain additional experience in harmonized approaches
- We expect to additionally consider:
 - Continuous manufacturing
 - Use of protocols for post-approval change flexibility



Proposed CDER Quality Reorganization

FDA-CDER is proposing a reorganization that will consolidate our quality functions into a single, focused office

OPQ Mission: The Office of Pharmaceutical Quality assures that quality medicines are available for the American Public

OPQ Vision: The Office of Pharmaceutical Quality will be a global benchmark for regulation of pharmaceutical quality

The “Desired State”

A maximally agile, flexible, pharmaceutical manufacturing sector that reliably produces high quality drug product without extensive regulatory oversight

OPQ Value Statements

Put patients first by balancing risk and availability

Have one quality voice by integrating review and inspection across product lifecycle

Safeguard clinical performance by establishing scientifically-sound quality standards

Maximize focus and efficiency by applying risk-based approaches

Strengthen the effectiveness of lifecycle quality evaluations by using team-based processes

OPQ Value Statements (cont.)

Enhance quality regulation by developing and utilizing staff expertise

Encourage innovation by advancing new technology and manufacturing science

Provide effective leadership by emphasizing cross-disciplinary interaction, shared accountability and joint problem solving

Build collaborative relationships by communicating openly, honestly and directly

OPQ – Proposed Structure

Office of Biotechnology Products

Office of New Drug Products

Office of Lifecycle Products

Office of Process and Facilities

Office of Surveillance

Office of Operations

Office of Policy

Office of Testing and Research

OPO – Changing the Paradigm

Greater utilization of staff expertise

Full integration of process review and pre-approval inspection

Integration of risk assessment into regulatory work products and decision making

Surveillance function

Goal – More efficient and effective organization



Thank you!

Questions, comments, concerns:
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