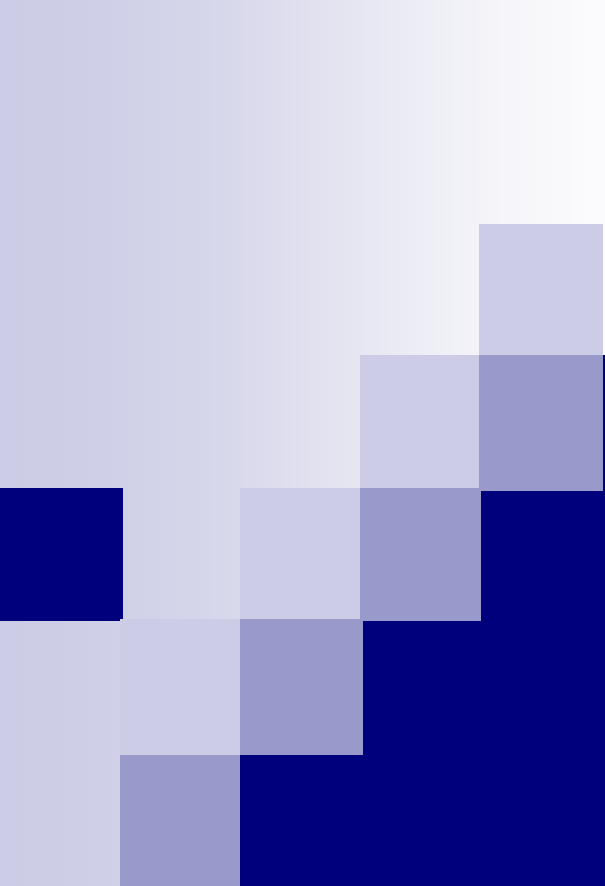




Q11 Update

Brian Withers

International Conference on Harmonisation of Technical
Requirements for Registration of Pharmaceuticals for Human Use

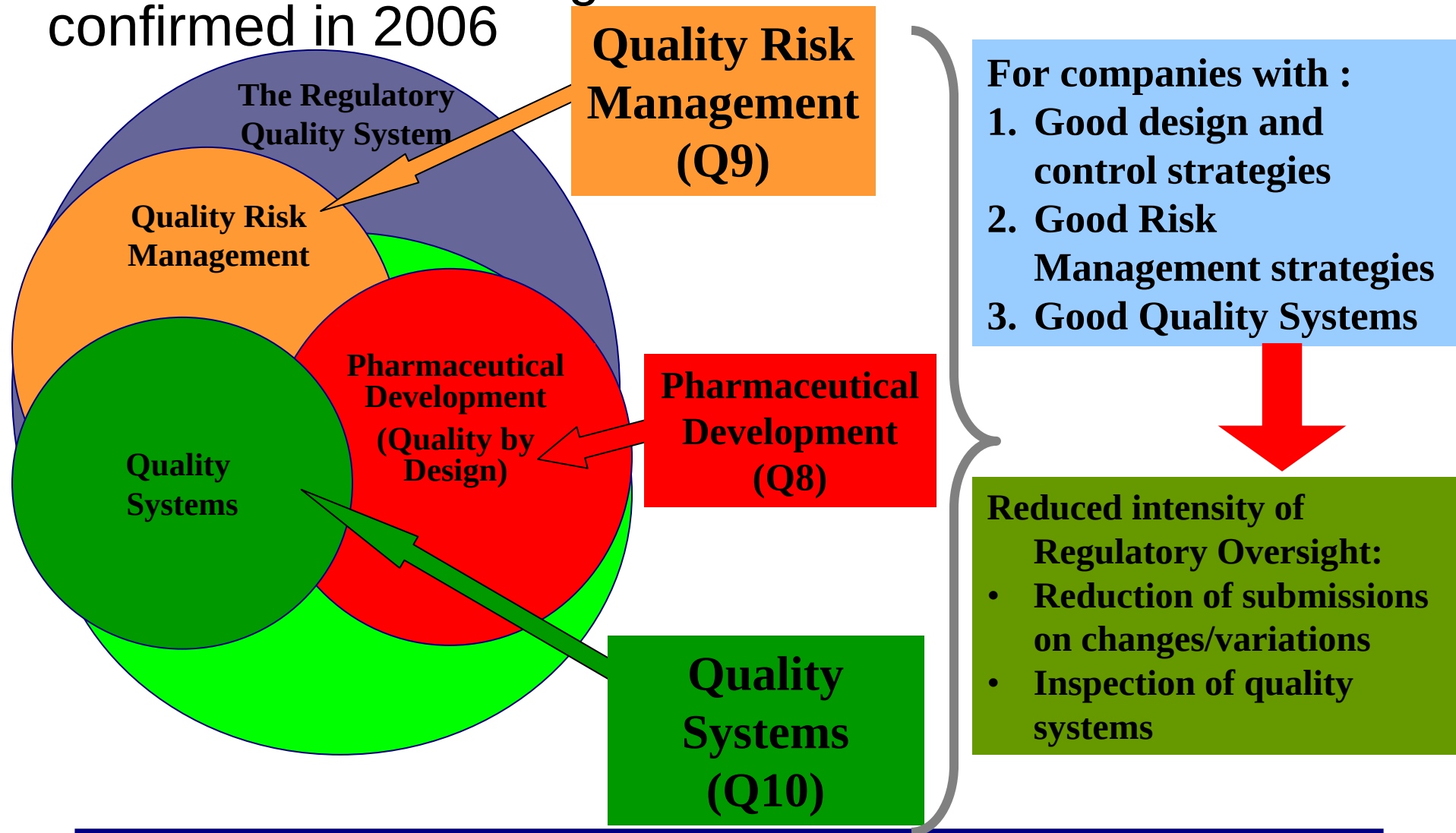




Content

- History of Concept Paper Development
- Review Concept Paper and Business Case
- EWG Activities

The Brussels 2003 agreement evolved and was confirmed in 2006



Topics to be considered

- ***Drug substance guidance addressing chemical and biotech (similarities & differences), traditional and 'best scientific practices' for S2 of CTD***
- Clarity on terms and concepts (implementation of Q8, Q9, Q10)
- Q8 and Q10 EWGs to work together on high priority terms
- Guidance on content of an 'improved' QOS placing key information into QOS backed up by Mod 3.
- Updating of existing guidelines to accommodate technical advances

ICH Quality Roundtable, September 2007

Drug Substance Agreements and Understandings

- Principles of Q8, Q9, Q10 are applicable to chemical and biotech drug substances and drug products
- Broad spectrum of process and molecular complexity could impact implementation
- Principles provide significant opportunities (and challenges) for more complex molecules and processes
- Fundamentals of good product development need to be addressed regardless of 'traditional' or 'new' development paradigms
- Focus should be on enhancing the process for ensuring quality rather than specific terminology
- Lack of guidance on drug substance still a remaining gap

ICH Quality Roundtable, September 2007

Recommendations

Development of an ICH guideline on Development and Manufacture of the Drug Substance (Section 'S2' of CTD-Q)

- Follow process used by CTD-Q EWG where biotech & chemical experts work together and in parallel (if necessary)
- Core group (1-2/party + 1/observer) to develop concept paper and business case

Concept Paper Q11

Key Points

- Promote harmonisation of requirements
-High level technical guidance relevant to design, development and manufacture of drug substance as part of a total control strategy.....
- Intended to provide guidance for drug substances as defined in Q6A and B
- Should identify similarities and differences for biologics and chemical entities

Concept Paper Q11

Issues to be resolved

- Selection of materials for manufacture of DS
- Control strategy
- Impurities and product related substances
- Process Robustness
- Scale Down models
- Critical Intermediates

Concept Paper Q11

Goals of Guideline

- Harmonise submissions
 - Outline science based concepts
 - Recommend approaches to demonstrating process and product understanding
 - Address complexity of processes/products
 - Accommodate different development approaches
 - Address enhanced and systematic approaches to drug development.
-

Business Case for Q11

ICH-Q11

Proposal to Steering Committee

March 2008

■ Problem statement

- ☐ Different regional expectations
- ☐ Difficult to harmonise technical information

■ Expected Benefits

- ☐ Cost of assessors time
- ☐ Cost of submission preparation
- ☐ Cost of preparing and reviewing answers to questions
- ☐ Cost to managing regional documents



EWG Challenges

- Balance of Guidance
 - Complex vs Less complex molecules
 - Approach to Development
 - Empirical
 - Enhanced, QbD
 - Manufacturing
 - Validation
 - Level of Detail
 - Enough detail to be useful
 - Not so detailed to be prescriptive
- How far to reproduce from other Guidelines

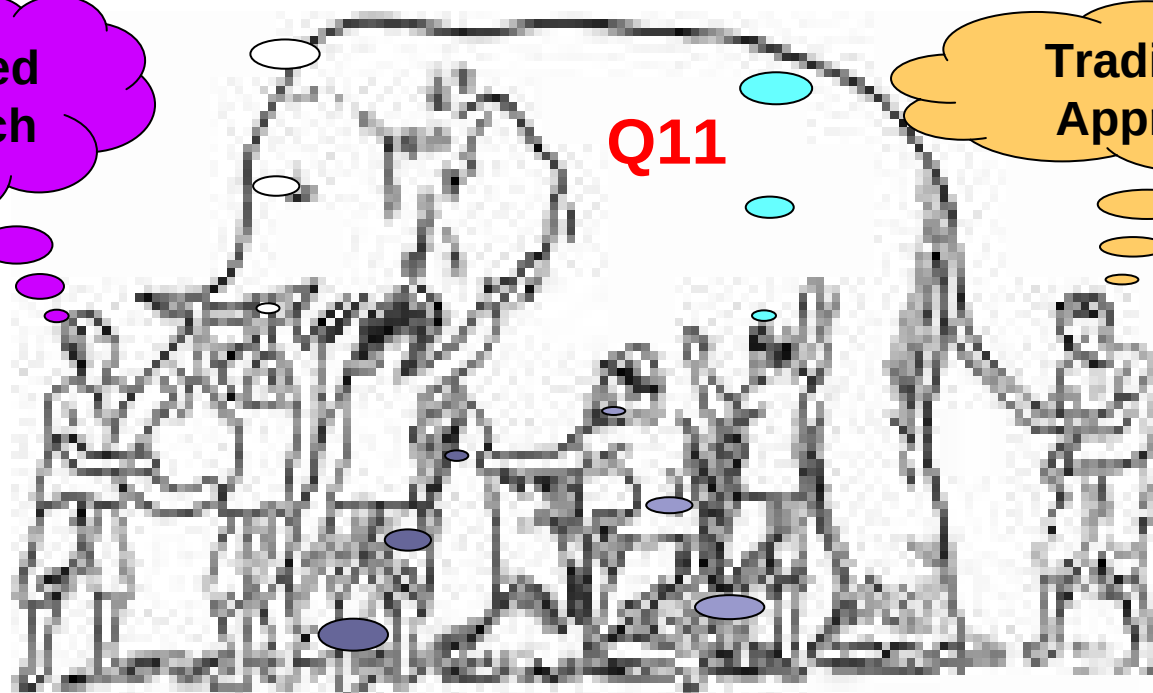
Q11 Expectations?

Mfg
Process

Control
Strategy

Enhanced
Approach

Traditional
Approach



What goes
In CTD

CQA's

ICH



Outline Working Structure

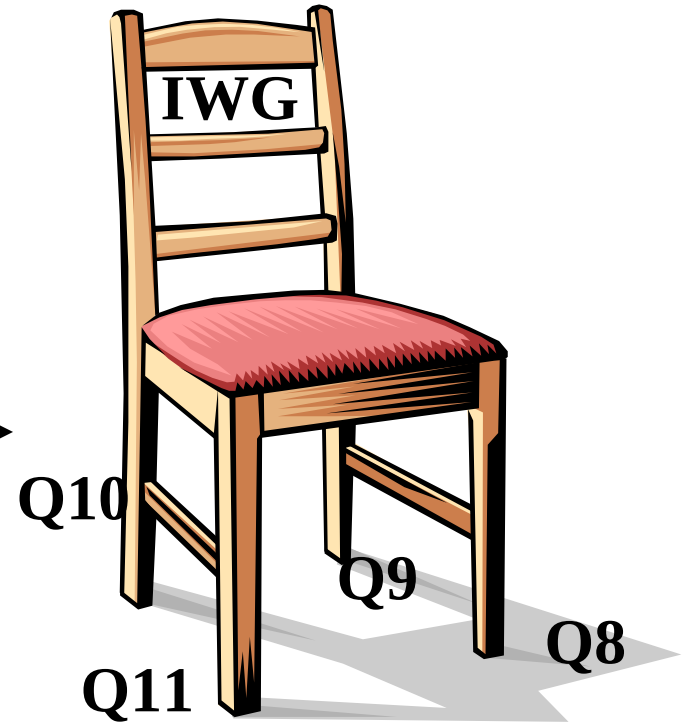
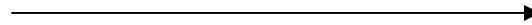
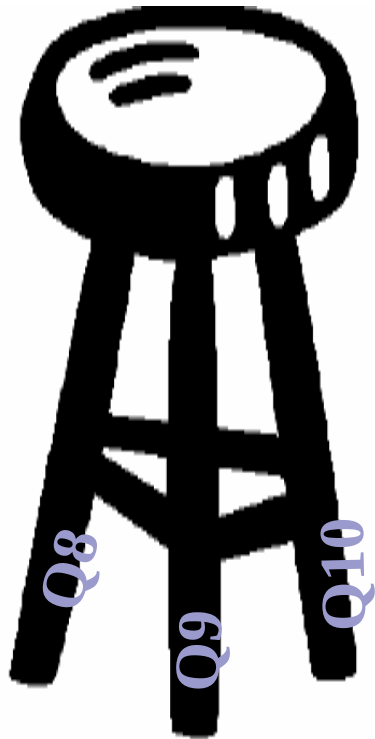
- Introduction
- Manufacturing Process Development
- Process Validation/Evaluation
- Controls
- Manufacturing Description

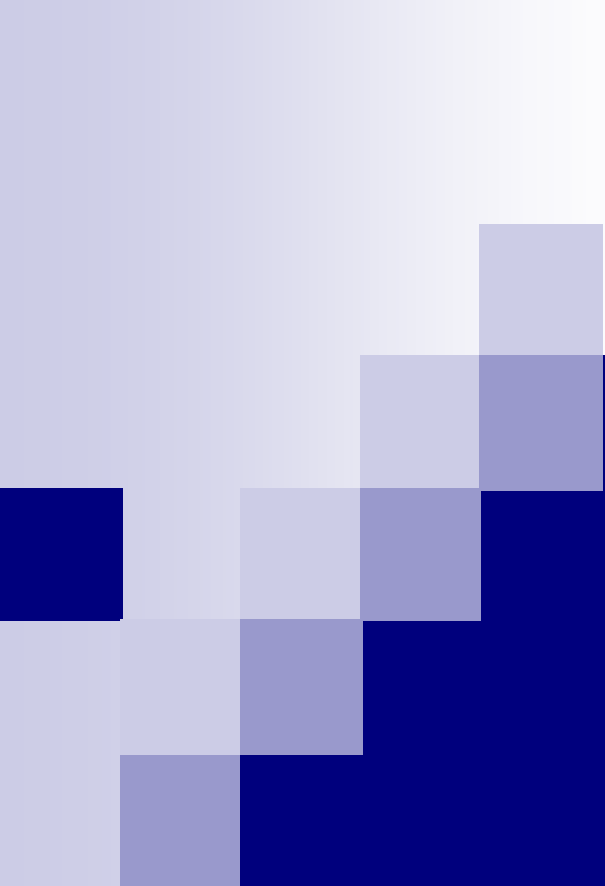


Questions/Topics Identified

- Critical Quality Attributes
- Control Strategy
- Defining Synthetic Starting materials
- Platform Technology
- Process Validation
 - Continuous Process Verification
 - Validation vs Verification
- Scale-Down Models

Value of Q11





Thank You

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