

# Enhancing Regulators' Confidence in your Quality Risk Management Work Products

**Stephen Reich**

**Quality Systems Director**

**Pfizer Andover**

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# Background

- **Today's presentation features key lessons learned from the presenters' recent experiences training FDA product reviewers on Quality Risk Management (QRM)**
- **These contents are reflective of informal FDA feedback and should not be interpreted as formal guidance or FDA positions**
- **The intent is to focus attention on areas where industry may significantly improve performance of QRM and increase the confidence that all regulators have in risk-based approaches and deliverables**

# Key Themes in FDA Feedback

## 1. Transparency

- A clarity, openness, and specificity, which allows reviewers to understand how inputs (data, scientific reasoning) ultimately support risk-based conclusions

## 2. Objectivity

- A commitment to impartiality through science and data-driven decision making

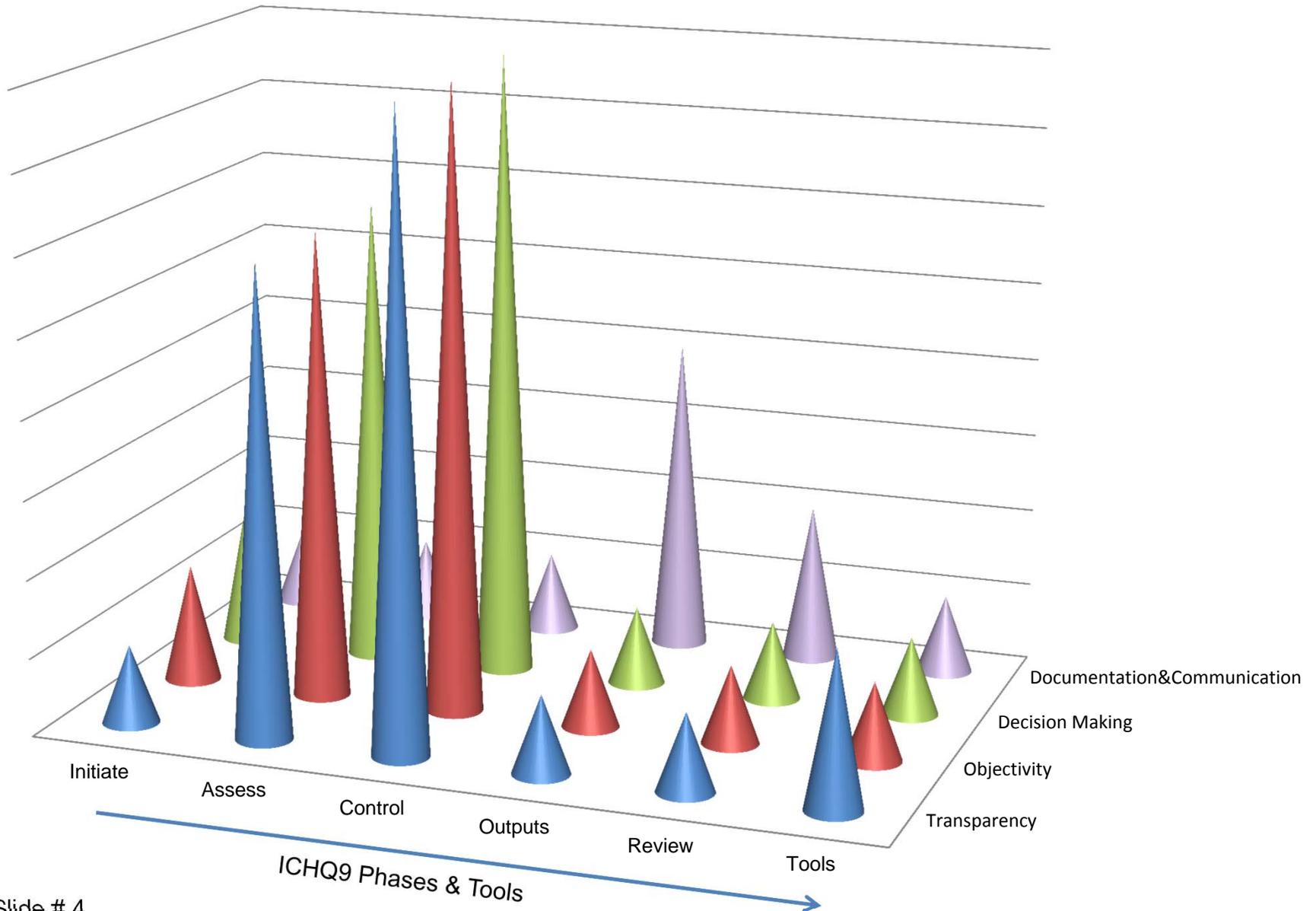
## 3. Decision Making

- Ensuring risk management decisions are rooted in transparent and objective analyses

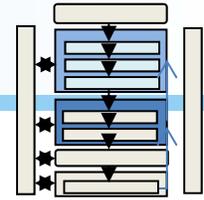
## 4. Documentation & Communication

- Concise manner by which we convey comprehensive risk management decisions and conclusions in a fashion that preserves and demonstrates the transparency and objectivity of the exercised QRM process

# Topographical Map of FDA Feedback



# Transparency: FDA Feedback



- **ICH Q9 Risk Assessment Phase:**
  - Risk Ratings and Thresholds: Common Problems
    - Inability to understand how certain risks were scored
      - Inexplicably too high / low
      - Inconsistency with similar risks
    - Ambiguity – Poorly worded rating scales that do not convey clear and logical differences between risk levels
    - Thresholds and ratings poorly justified or explained
      - Thresholds need to make sense in the context of the actual risks
- **ICH Q9 Risk Control Phase:**
  - Residual risk acceptance: Transparency is key to...
    - Understand the thought-process and justification for acceptance of elevated risks
    - Who ultimately accepted the residual risk?
  - Industry risk acceptance : Areas noted by FDA for improvement
    - When there is no justification for why heightened risks were accepted
    - When industry's risk acceptance process is not transparent to FDA (how risks are accepted and justified, who is involved, etc.)

# Transparency: Enhancing Regulators' Confidence

**Rating scale should be tailored to**

- Project scope
- Problem statement
- Product impact
- Qualitative versus quantitative
- Data availability

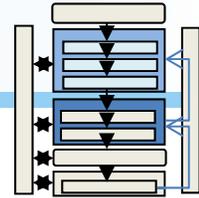
**Rating scale should work for the problem statement**

- Provide true differentiation of risks, driving appropriate risk control
- Generate a meaningful distribution of risks across the assessment

**Rating scale can be qualitative or quantitative**

- Ratings do not need to be quantitative to be effective
- Qualitative 3-level scales (ex: Low / Medium / High) can yield good distributions of risks

# Objectivity: FDA Feedback



- **ICH Q9 Risk Assessment Phase:**

- Risk Thresholds:

- May be set either before or after risk data is generated, so long as they are **justifiable and transparent**
- Should primarily be established based on the problem statement

- **ICH Q9 Risk Control Phase:**

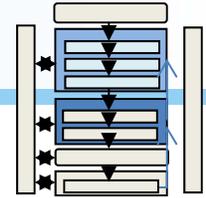
- Risk Acceptance:

- Industry risk acceptance : Areas noted by FDA for improvement
  - Borderline risk acceptance decisions based on hard thresholds and heat maps
    - Consider the risks just below the threshold(s)
    - Provide rationale into risk acceptance as opposed to a disjunctive risk acceptance or rejection based merely on a threshold
- Concepts of right-sizing vs. down-sizing
  - Entering into QRM with a mindset of ‘right-sizing’ of controls is sensible
  - Entering into QRM with a mindset of ‘down-sizing’ of controls is dangerous

# Objectivity: Enhancing Regulators' Confidence

- **Risk Thresholds & Acceptance:**
  - Thresholds rooted in objective criteria make decision making more effective
    - Patient / consumer health, safety, comfort outcomes
    - Movement within or outside layers (PAR, NOR) of the design space
  - Risk thresholds: Should generally not be based on arbitrary safety factors or unrelated sources
    - “80/20 rule” or similar
    - Thresholds set for other unrelated studies
  - Risk acceptance and right-sizing of risk controls is more simple and defensible when rooted in objective criteria

# Decision Making: FDA Feedback



- **ICH Q9 Risk Assessment Phase:**

- Risk Thresholds: Common Problems

- Absence of thresholds – no rationale around how the sponsor decided what was acceptable or unacceptable
- Thresholds sometimes taken too literally
  - Acceptance of risks that are below, but *near* the threshold
  - Decisions made solely with respect to a hard threshold

- **ICH Q9 Risk Control Phase:**

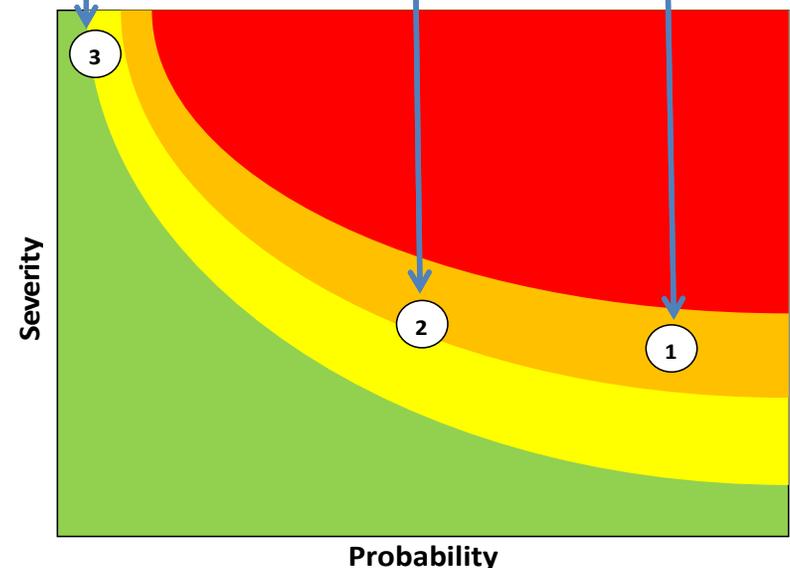
- Industry risk control: Areas noted by FDA for improvement

- When patient impact does not seem to be central to the decision making
  - Mention of business-related benefits in support of risk acceptance
- Over-reliance on human performance

# Decision Making: Enhancing Regulators' Confidence

- **Heat Maps must be carefully managed**
  - Simplicity is powerful when backed by transparent and appropriate justification
  - Contours may be different for each study
- **Residual risk acceptance**
  - Explain risk acceptance rationale for risks which are:
    - Obviously heightened
    - Near or at critical thresholds
    - High severity yet low probability risks

		Probability of Occurrence					
		2	4	6	8	10	
Severity	10	Catastrophic					
	8	Critical	16				
	6	Serious					
	4	Significant		16			
	2	Negligible				16	



# Documentation & Communication: FDA Feedback

- **ICH Q9: Risk Outputs**

- What is commonly missing from risk assessments submitted to FDA?
  - Why the risk assessment is being performed
  - Details around:
    - Scope – what's in scope and an explanation if related risks are out of scope
    - Rationale behind tool selection
    - Level and types of data used in the assessment
    - Threshold justification
  - Context around lifecycle considerations (for product risk assessments), including linkage to any earlier or future risk assessments
  - Explanation around any risk scores that seem counter-intuitive
- Feedback from other global Boards of Health

## Documentation & Communication: Enhancing Confidence

- **For risk assessments that directly support a regulatory submission to FDA:**
  - An appropriately redacted summary report of the risk assessment is most often the best option
  - Generally discouraged:
    - Just briefly mentioning that a risk assessment was performed, or
    - Submitting the entire detailed risk assessment (unless specifically requested)
- **Proactive engagement of FDA encouraged**
- **Documented evidence that a risk assessment may have led you to explore an alternative approach**

# Conclusions

- **Careful attention in the following areas may increase regulators' confidence in your QRM work products:**
  - Objectivity
  - Transparency
  - Decision making
  - Documentation
  - Communication

# Acknowledgements

- **Kristin Murray, Associate Director, GCMC Regulatory Affairs, Pfizer**