

Quality Risk Management ICH Q9

Executive summary for competent authorities and industry

Disclaimer: *This presentation includes the author's views on quality risk management theory and practice. The presentation does not represent official guidance or policy of authorities or industry.*

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

The situation today

The situation today for both regulators and industry

- > Increasing **external requirements**
- > Increasing **efforts and costs**
- > Growing **complexity** and scope of risks

Empowerment & Flexibility is needed

- > Master **complexity** and streamline **decision making**
- > Proactive disclosure build **trust and understanding**
- > Improve **communication** through sharing best practice and science based knowledge
- > Convert **data into knowledge**

Executive summary

New Regulatory Paradigm

- ICH Regulators:

- > **FDA:** New paradigm with the 21st Century GMP initiative
- > **EMA:** Revised EU directives
- > **MHLW:** Revised Japanese law (rPAL)

- EU & Japan became involved at ICH

GMP Workshop in July 2003: 5 year vision agreed:

“Develop a harmonised pharmaceutical quality system applicable across the life cycle of the product emphasizing an integrated approach to quality risk management and science”

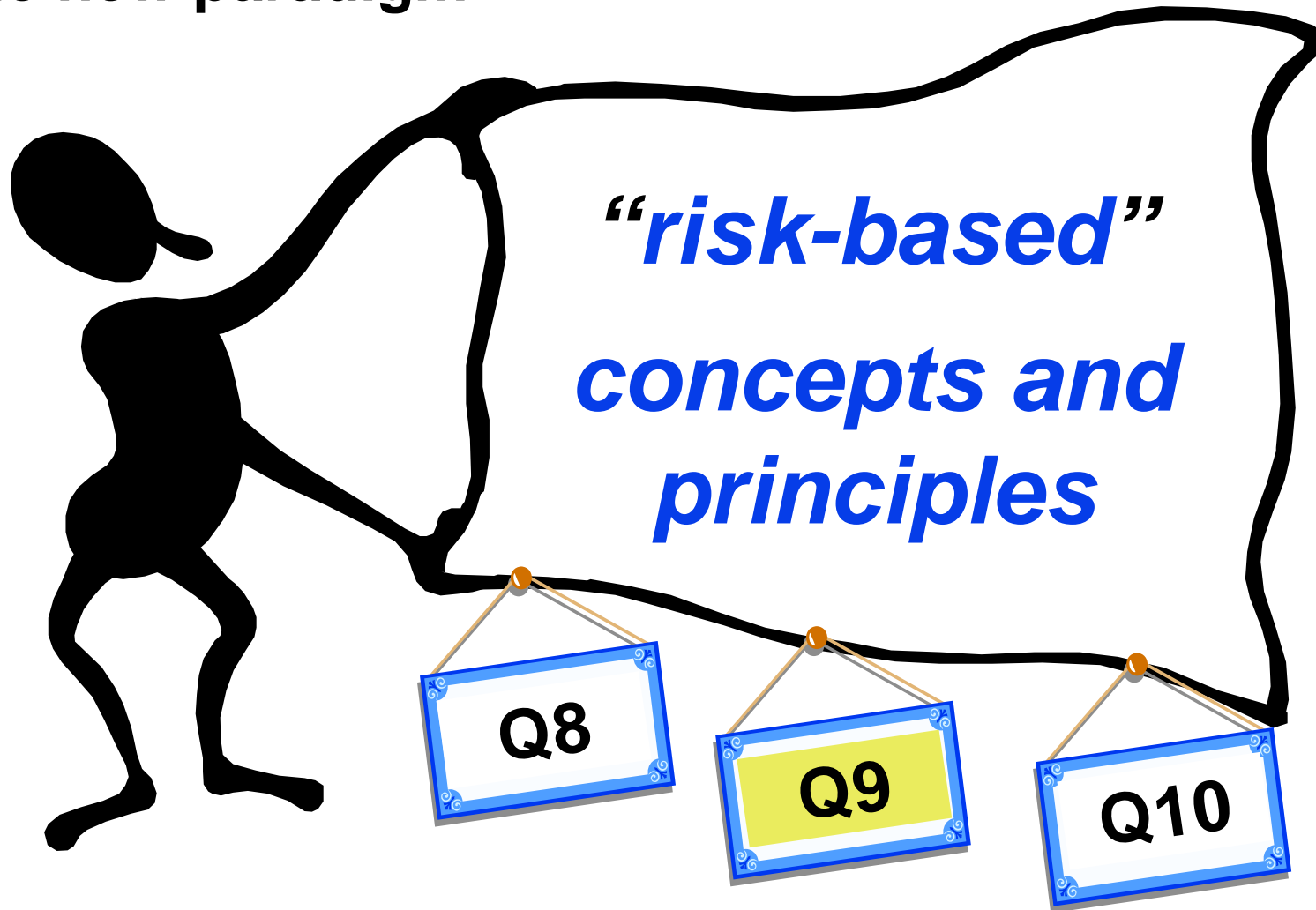
- Consequent ICH Expert Working Groups (EWG):

- > **ICH Q8**, on **Pharmaceutical Development**, doc. approved 2005
- > **ICH Q9**, on **Quality Risk Management**, doc. approved 2005
- > **ICH Q10**, on **Quality Systems**, topic accepted 2005

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

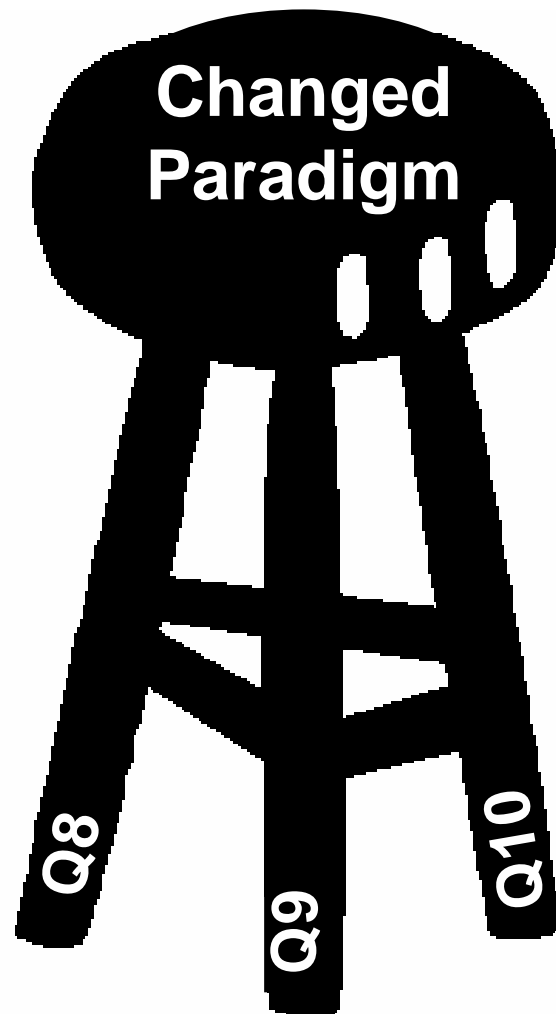
The new paradigm



Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

Incremental steps



Pharmaceutical Development (Q8)

Past: Data transfer / Variable output

Present: Knowledge transfer / Science based / Consistent output

Quality Risk Management (Q9)

Past: Used, however poorly defined

Present: Opportunity to use structured process thinking

Pharmaceutical Quality Systems (Q10)

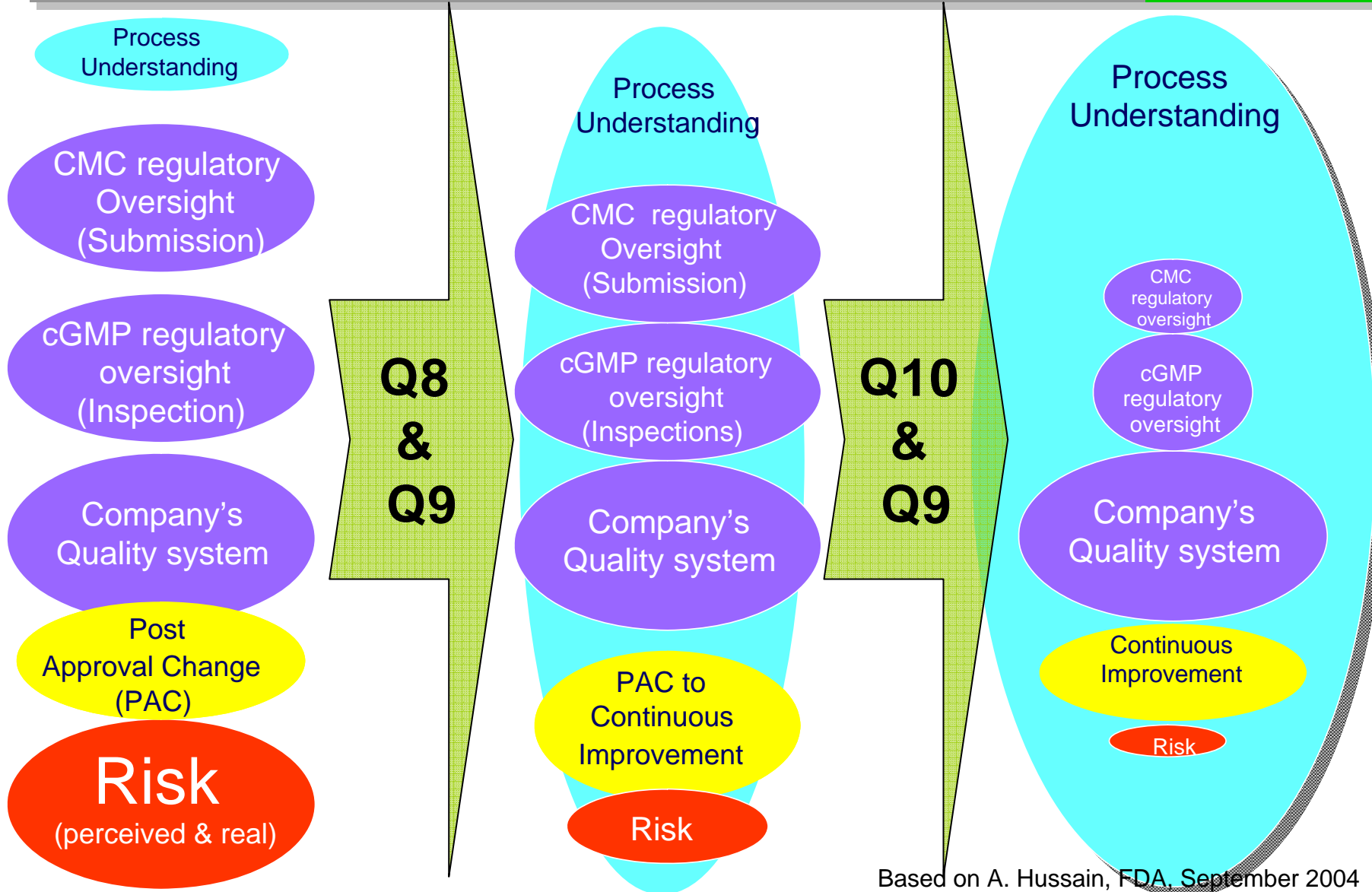
Past: GMP checklist

Future: Quality Systems across product life cycle

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

CONSIDERATIONS



Based on A. Hussain, FDA, September 2004

Executive summary

The Desired State driven by ICH Q9

- **Manage risk to patient, based on science:**
 - > **Product, process and facility**
 - > **Robustness of Quality System**
 - > **Relevant controls to assess & mitigate risk**
- **Level of oversight required commensurate with the level of risk to patient for:**
 - > **Marketing authorisation applications**
 - > **Post-approval change review**
 - > **GMP inspections**

Executive summary

The Desired State

- **Barriers to continuous improvement reduced or removed**
 - > Improved manufacturing efficiency
 - > Sustained or improved product quality
- **Specifications based on parameters that truly impact product quality**
- **Common understanding and language on risk**
- **Both, industry and competent authorities focus on areas of greatest risk and understanding of residual risks**

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

Pharmaceutical industry and quality risk management

- **Pharmaceuticals have lagged behind related industries in adopting structured risk management in the quality area; e.g.**
 - > Medical devices have ISO 14971
 - > Food industry uses HACCP
- **We are using quality risk management but**
 - > Implementation is patchy
 - > It is often not fully integrated with rest of the Quality System

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

Advantages of quality risk management as technique

- Improves **decision making**
 - > Identifies what gives most benefit to the patient
- Is **scientific & data-driven**
 - > Reduces subjectivity
- Ranks risk - allows **prioritization**
 - > Better use of resources
- Means of **building in Quality**
- Improves **transparency** - inside organisation and **builds trust** with competent authorities
 - > Enables regulatory flexibility
- Benefits apply throughout **product lifecycle**

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

Why did we need ICH Q9?

- To ensure a common understanding of **Quality Risk Management (QRM)** among industry and competent authorities
- To facilitate moving to the “Desired State”
 - > To facilitate **communication and transparency**
 - > To move **from ‘fire fighting’ to management of risk**
- **ICH Q9** explains
 - > A common language and process
 - > Potential methodologies for QRM
 - > Where QRM can add value

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

Quality Risk Management is **NOT**

- Hiding risks
- Justifying poor quality of product and / or processes
- Excusing industry's obligation to comply with regulatory requirements

HOWEVER

- It might bring about the revision or withdrawal of some non risk base guidance

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

What does Senior Management need to do?

- Ensure organisation is aware of ICH Q9 and the **opportunity** it affords
 - > Appropriate education and training
- Encourage **open, risk aware culture**
 - > Establish & support “QRM leaders” across organisations
- Encourage integration of Quality Risk Management with **existing Quality systems**
 - > Do NOT set up as a separate department
 - > Coordinate implementation and resource allocation
 - > Prioritise; start small, learn as you go



Executive summary

Conclusions

- ICH Q9, together with “Pharmaceutical development” (ICH Q8) and “Quality systems” (ICH Q10), provides opportunity for a **revised, optimised and, less restrictive regulatory paradigm**
 - > Based on scientific knowledge
 - > Enable continuous improvement
 - > Greater transparency and efficiency
 - > Focusing on things that add value for patients
 - > Improved relationship between industry and competent authorities based on trust
- **We must seize this opportunity**

Executive summary

ICH Q9 QUALITY RISK MANAGEMENT

Keep always in mind the

Principles of Quality Risk Management

The evaluation of the risk to quality should be **based on scientific knowledge** and ultimately link to the **protection of the patient**

The **level of effort, formality and documentation** of the quality risk management process should be **commensurate with the level of risk**

ICH Q9

**Focus resources
where they matter most to protect the patient**

