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addressed:

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What's Different in ISO 14971:2007?

TOPICS

- Some Definitions
 - What is ISO 14971:2007?
 - What is Risk?
 - What is Risk Management?
 - What is "Quality Risk Management"?

Quality Management System Considerations

- What Do Standards and Regulations Require with Regard to Risk Management?
- Where in the QMS should a requirement for Risk Management be established?
- General Requirements of ISO 14971
- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
- Risk Management References
- Some Risk Management Tools

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What's Different in ISO 14971:2007?

Some Definitions

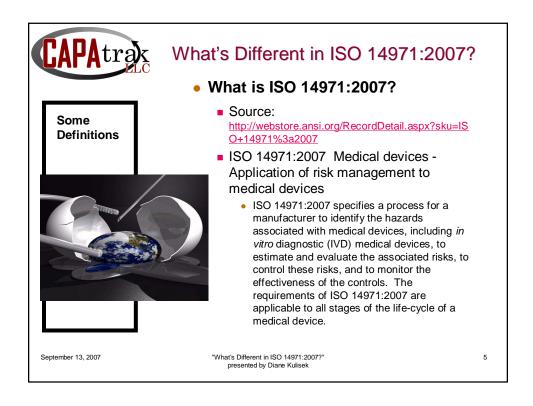
Some Definitions

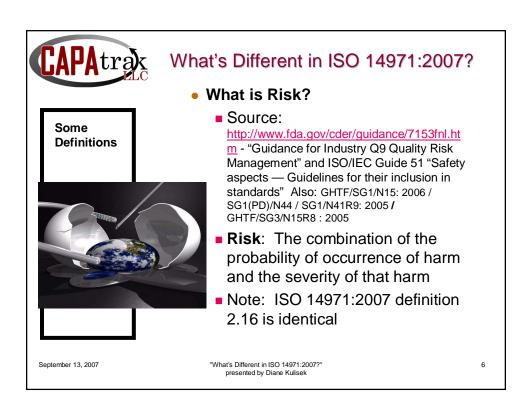
- What is ISO 14971:2007?
- What is Risk?
- What is Risk Management?
- What is "Quality Risk Management"?

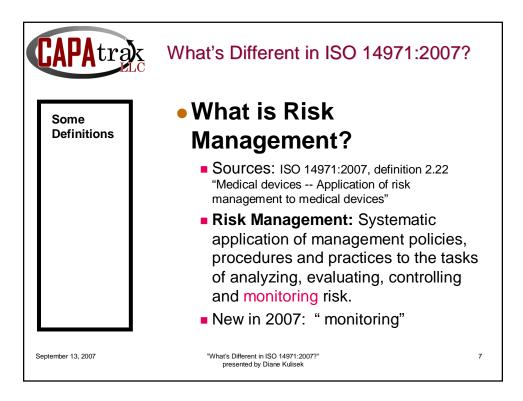
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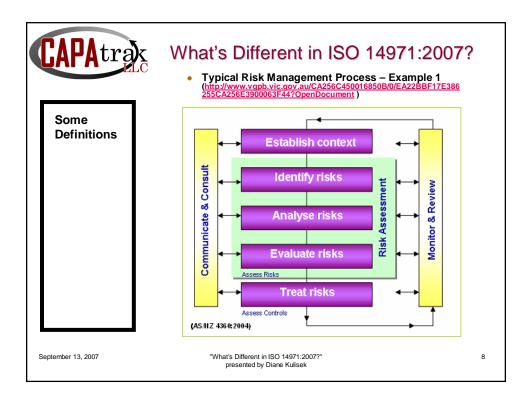
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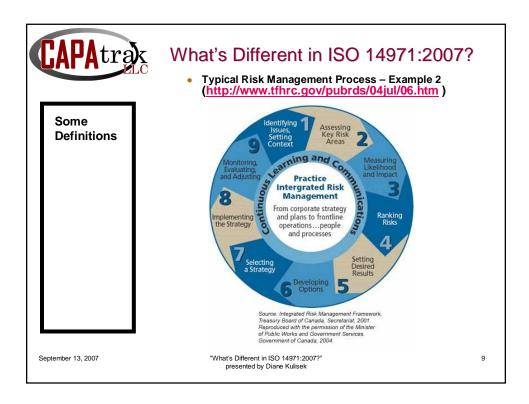
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Some Definitions

- What is "Quality Risk Management"?
 - Source:

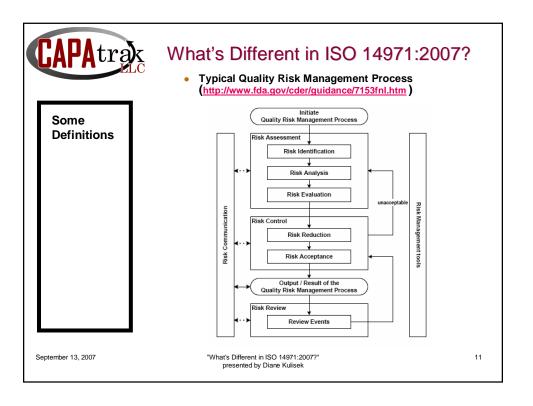
http://www.fda.gov/cder/guidance/7153fnl.htm - "Guidance for Industry Q9 Quality Risk Management"

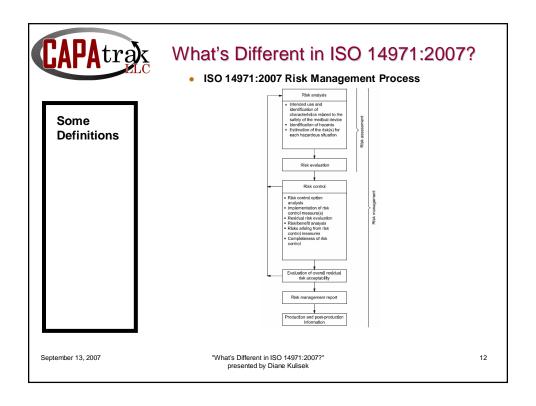
Quality Risk Management: A systematic process for the assessment, control, communication, and review of risks to the quality of the drug product across the product lifecycle.

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Quality Management System Considerations

Quality Management System Considerations

- What Do Standards and Regulations Require with Regard to Risk Management?
- Where in the QMS should a requirement for Risk Management be established?

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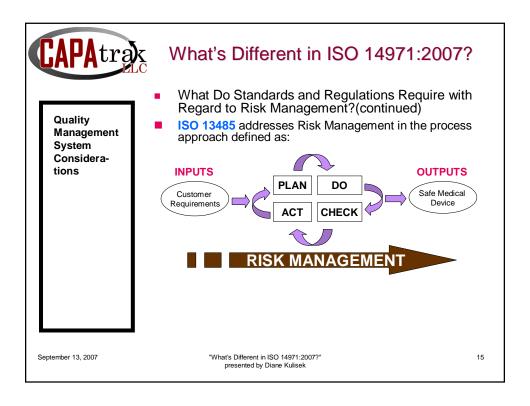
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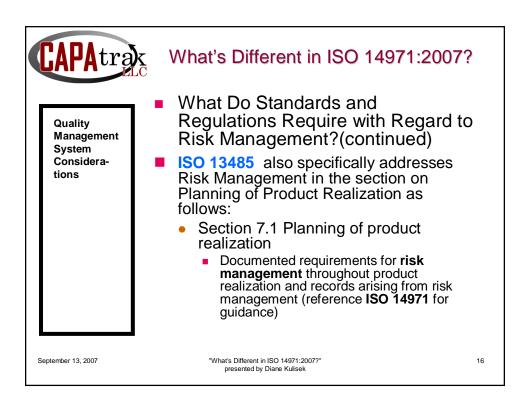
Quality Management System Considerations

- What Do Standards and Regulations Require with Regard to Risk Management?
 - Many industries have independent Risk Management Standards
 - Quality Risk Management is required by ISO 13485:2003 for Medical Devices
 - Risk analysis is required by the FDA's Quality System Regulation (QSR) The FDA initiated its risk analysis expectations on June 1, 1996 and requirement June 1, 1997.
 - Risk Analysis is also required by Annex I Essential Safety Requirements of the European Union's Medical Devices Directives

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Quality Management System Considerations

- Where in the QMS should a requirement for Risk Management be established?
 - As part of the Quality Policy
 - In Design Control
 - Throughout the Entire Product Life Cycle
 - For all aspects of Product Realization
 - Specifically for Sterile Packaging at:
 - Design Validation
 - Process Validation
 - Distribution Validation

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Quality Management System Considerations

- Where in the QMS should a requirement for Risk Management be established?
 - Include Risk Management as part of the Quality Policy.
 - Establish Risk Management
 Objectives that support the Quality Policy.
 - Include Risk Management on the agenda for Quality Management Reviews.

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Quality Management System Considerations

- Where in the QMS should a requirement for Risk Management be established? (cont'd)
 - Establish Risk Management related Quality Metrics within QMS
 Operating Procedures.
 - When feasible, consider establishing Dashboard requirements within Production Procedures, Work Instructions, or Process, Material and Product Specifications.

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Quality Management System Considerations

- Where in the QMS should a requirement for Risk Management be established? (cont'd)
 - When products or processes are outsourced, especially for design or validation services, flow requirements for *Risk Management* related Quality Metrics to Suppliers via their Contracts or Purchase Orders.

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ISO 14791:2007(E) General Requirements

General Requirements of ISO 14971

- General Requirements for Risk Management
 - Risk Management Plan
 - Risk Management File
- Risk Analysis
- Risk Evaluation
- Risk Control
 - Risk Reduction
- Evaluation of Overall Residual Risk Acceptability
- Risk Management Report
- Production and* Post-Production Information
 - * New in ISO 14971:2007

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What's Different in ISO 14971:2007?

ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 adds or modifies definitions for:
 - in vitro diagnostic medical device IVD medical device
 - life-cycle
 - post-production
 - residual risk (changed from "after protective measures" to "after risk control measures")
 - risk estimation
 - risk evaluation (eliminated reference to"current values of society")
 - risk management (added "monitoring")
 - top management
 - use error
 - verification significantly expanded to describe confirmation activities

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ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 expands definition for:
 - medical device which now includes:
 - implements
 - machines
 - implants
 - in vitro reagents
 - calibrators
 - software (by itself)
 - life supporting or sustaining devices
 - devices for disinfection of medical devices
 - devices that provide information for medical purposes by means of in vitro examination of specimens derived from the human body

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What's Different in ISO 14971:2007?

ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 Risk Management Process Schematic expanded to include:
 - additional Risk Controls,
 - separate block for Residual Risk,
 - Risk Management Report and
 - Production/Post-Production Information.

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ISO 14791:2007(E) versus ISO 14791:2000(E) Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)

- 2007 dropped Section 3.1 on National or Regional Regulatory Requirements
- 2007 added Section 3.2 on the Risk Management Process

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What's Different in ISO 14971:2007?

ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 Risk Management File section 3.5 expanded to include:
 - Risk Analysis
 - Risk Evaluation
 - Implementation and Verification of Risk Control Measures
 - Assessment of Acceptability of Residual Risks

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ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 changed the former section 4.1 titled "Risk Analysis Procedure" to "Risk Analysis Process"
 - In 2007, Figure 2 from the 2000 standard, formerly called "Overview of risk management activities as applied to medical devices" has been dropped out
 - Section 4.3 changed from "Identification of Known or Foreseeable Hazards" to "Identification of Hazards"
 - Section 4.4 changed from "Estimation of the Risk(s) for each Hazard" to "Estimation of the Risk(s) for Each Hazardous Situation"

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What's Different in ISO 14971:2007?

ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 changed 6.2 from "Option Analysis" to "Risk Control Option Analysis"
 - In 2007, Figure 2 from the 2000 standard, formerly called "Overview of risk management activities as applied to medical devices" has been dropped out and moved to an Annex (Annex B)

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ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 changed 6.6 from "Other generated hazards" to "Risks arising from risk control measures"
 - 2007 changed 6.7 from "Completeness of risk evaluation" to "Completeness of risk control"

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What's Different in ISO 14971:2007?

ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 changed section 7 from "Overall residual risk evaluation" to "Evaluation of overall residual risk acceptability"

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ISO 14791:2007(E) versus ISO 14791:2000(E) Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)

- 2007 clarifies section 8 to indicate that elements required within the "Risk Management Report" are:
 - Appropriate implementation of the Risk Management Plan
 - Acceptability of overall residual risk
 - Methods to obtain relevant production and post-production information are appropriate and are in place

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What's Different in ISO 14971:2007?

ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 changed Section 9 from "Post production information" to "Production and post-production information"

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ISO 14791:2007(E) versus ISO 14791:2000(E)

- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 New/Changed Annex Sections:
 - New: Annex A Rationale for requirements (was Amendment 1, Annex H in 2000 version)
 - New: Annex B Overview of the risk management process for medical devices (contains modification of former figure 2 and elaborations about it from the 2000 version of the standard)
 - Changed: Annex E Examples of hazards, foreseeable sequences of events and hazardous situations (was Examples of possible hazards and contributing factors associated with medical devices in 2000 version – Annex D)

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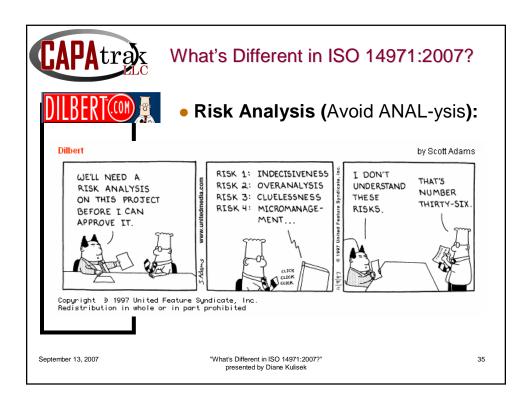
ISO 14791:2007(E) versus ISO 14791:2000(E)

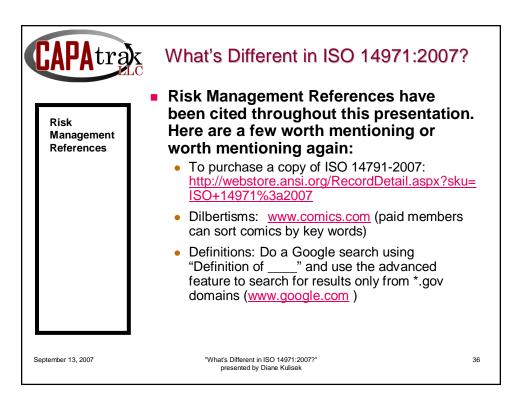
- Differences Between ISO 14971:2000(E) and ISO 14971:2007(E)
 - 2007 New/Changed Annex Sections (cont'd):
 - Changed: Annex I Guidance on risk analysis for <u>biological*</u> hazards (*was <u>toxicological</u> hazards in 2000 version – Annex C)
 - New: Annex J Information for safety and information about residual risk
 - Dropped: former Annex G Other standards that contain information related to the elements of risk management described in this International Standard

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Risk Management References

- Risk Management References (continued):
 - The U.S. Food and Drug Administration's Guidance for Risk Management (Q9): http://www.fda.gov/cder/guidance/7153fnl.htm
 - The Global Harmonization Task Force Glossary of Terms: http://www.ghtf.org/steering/invent-orysc/SC-PD3-N4.pdf

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Management

Tools You

can Put To Use

Immediately

Risk

What's Different in ISO 14971:2007?

Risk Management Tools

- The following free tools will be provided to you via email upon confirmation of your subscription to the CAPAtrak Member List:
 - A .pdf file of the two screen per page handout for this presentation
 - An MS Word template for an ISO 13485:2000 compliant Risk Management Procedure
- Please be sure to let me know that you were at this evening's presentation by return email when I thank you for joining the CAPAtrak community.
- To subscribe, please go to www.capatrak.com and click on the blue button that says: "sign up now" on any page of the website.

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THANK YOU! May I answer Your Questions?

Presented by Diane Kulisek, President



805-522-5005 O 805-320-7879 C dkulisek@capatrak.com

2493 Pinewood Place Simi Valley, CA 93065