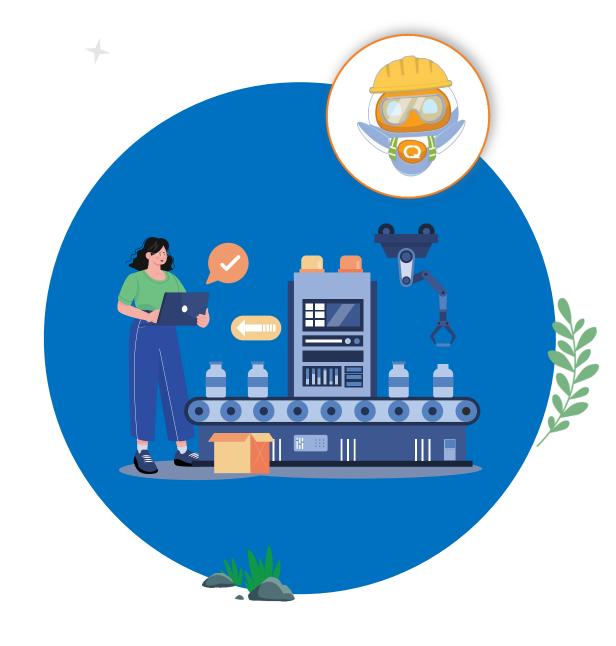


Simplifying Risk Management File Maintenance: Tools, Techniques, and Industry Best Practices

Mark Rutkiewicz

Founder Consiliso LLC







Speaker



Mark Rutkiewicz

Founder of Consiliso LLC, Medical Device Business/Quality Systems Consultant

For over 35 years, Mark Rutkiewicz has managed all types of medical device company business processes. He has designed Quality Management Systems for active and non-active implantables, disposables, combo devices, software and capital systems. Mark built and rebuilt online integrated corporate-wide quality/business systems. He has a Bachelor of Electrical Engineering from the University of Minnesota and a Masters of Applied Liberal Studies from Hamline University. He is currently involved with on the MDIC's Safe Space Program. Mark founded Consiliso LLC in 2018, which assists companies in integrating their business systems. Mark is the author of two books on Consiliso, which defines how to implement integrated business processes.





Agenda 1. The Problem 5. The Questions **TOT** 4. The New Idea 2. The Requirements



3. The Process

The Problem

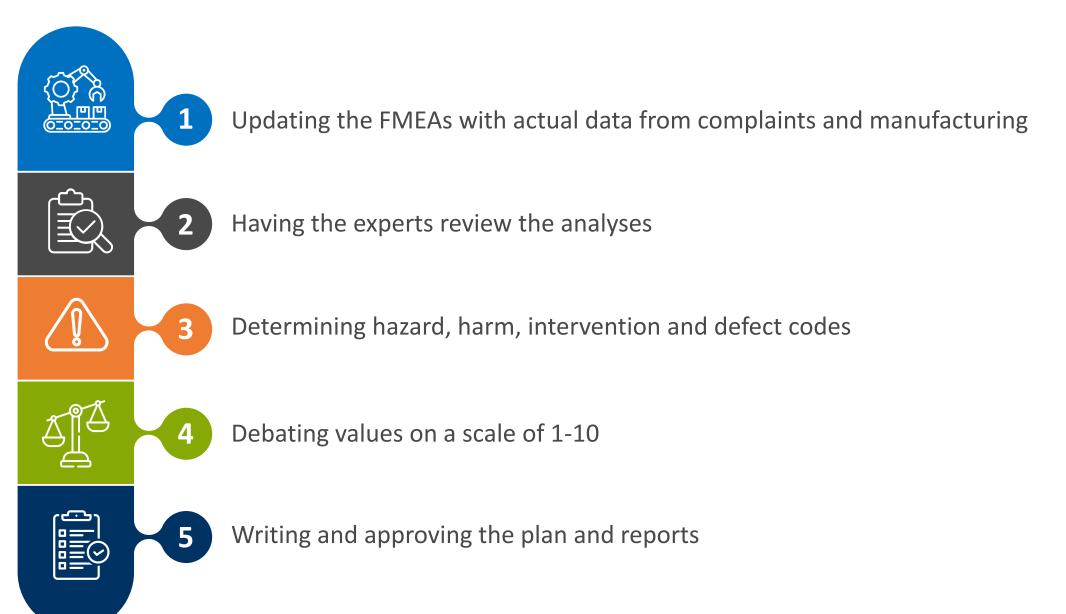






Why are risk management files difficult to maintain? Aligning the hazard, harm, intervention and defect codes Debating values on a scale of 1-10 Writing and approving the plan and reports Updating the FMEAs with actual data from complaints and manufacturing Having the experts review the analyses

The Top 5 Risk Management File Difficulties





The Requirement

• ISO 14971:2000 originally said: The manufacturer shall establish, document and maintain a system to collect and review information about the medical device or similar devices in the production and the post-production phases.

ISO 14971:2019 now says: The manufacturer shall establish, document
and maintain a system to actively collect and review information relevant
to the medical device in the production and post-production phases.
 When establishing this system, the manufacturer shall consider
appropriate methods for the collection and processing of information.



How often should a product's risk management report be updated?	
	When DMR changes occur
	Monthly
	Quarterly
	Annually
	Every few years

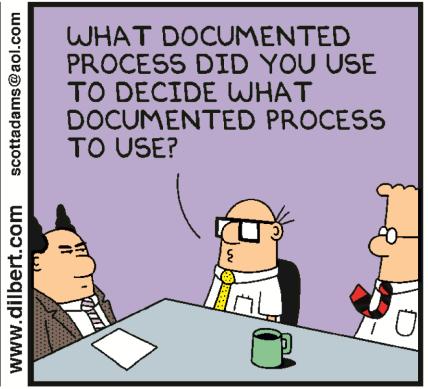
Why So Hard?

- First established 25 years ago
- ► Manual tools used to establish risk assessments
- Production and post production data not easily available
- ► No common product lines and risk codes
- ▶ Information located in multiple information silos
- Undefined process











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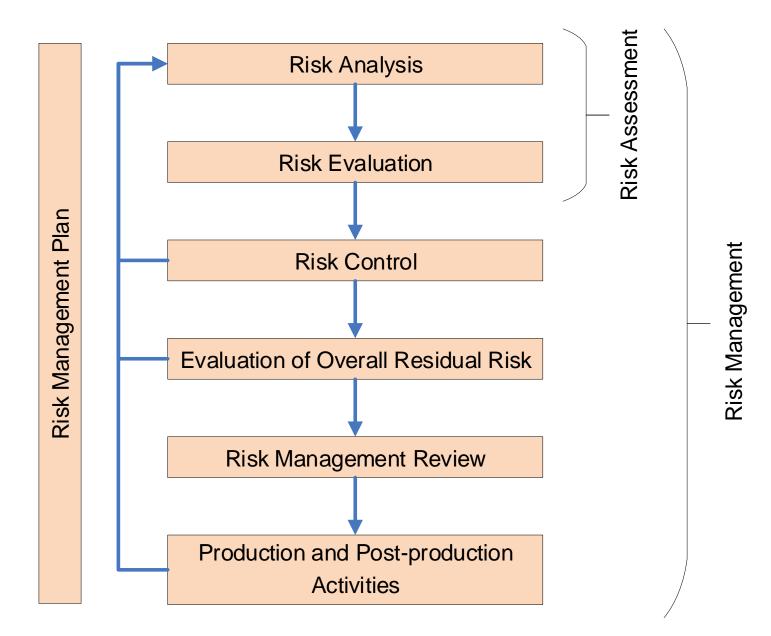
The Process: Plan-Do-Check-Act

- Plan Define the requirements for a Product Risk Management System (RMS)
- **Do** Create processes, tools, procedures and operating star and for implementation
- Check Verify the output meets the design and regular ty book equirements
- Act Update the RMS to eliminate non-value ded since o speed the process



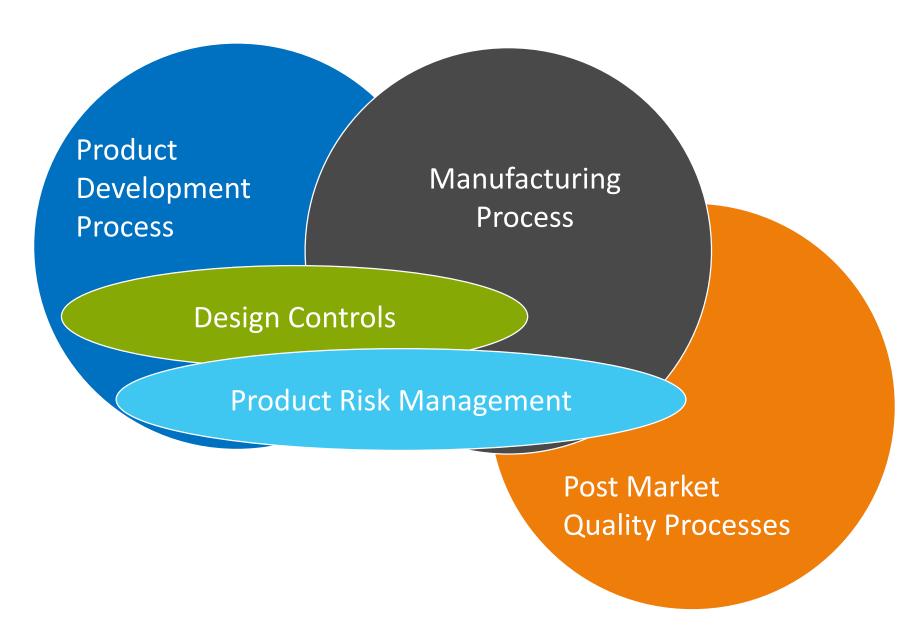


ISO 14971 Risk Management Process - Requirements

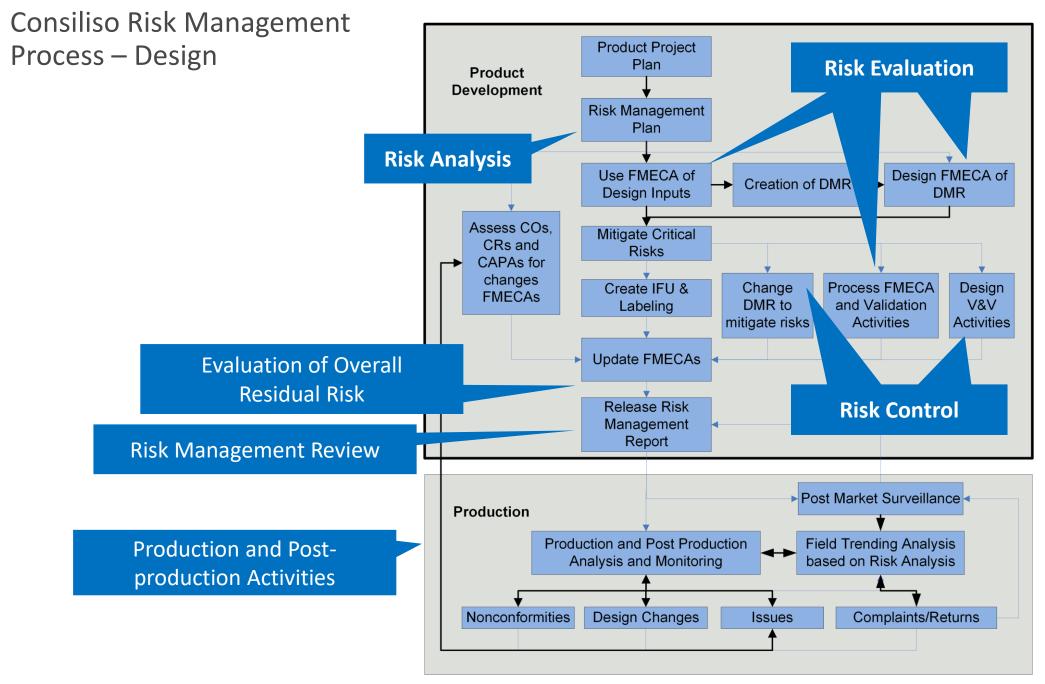




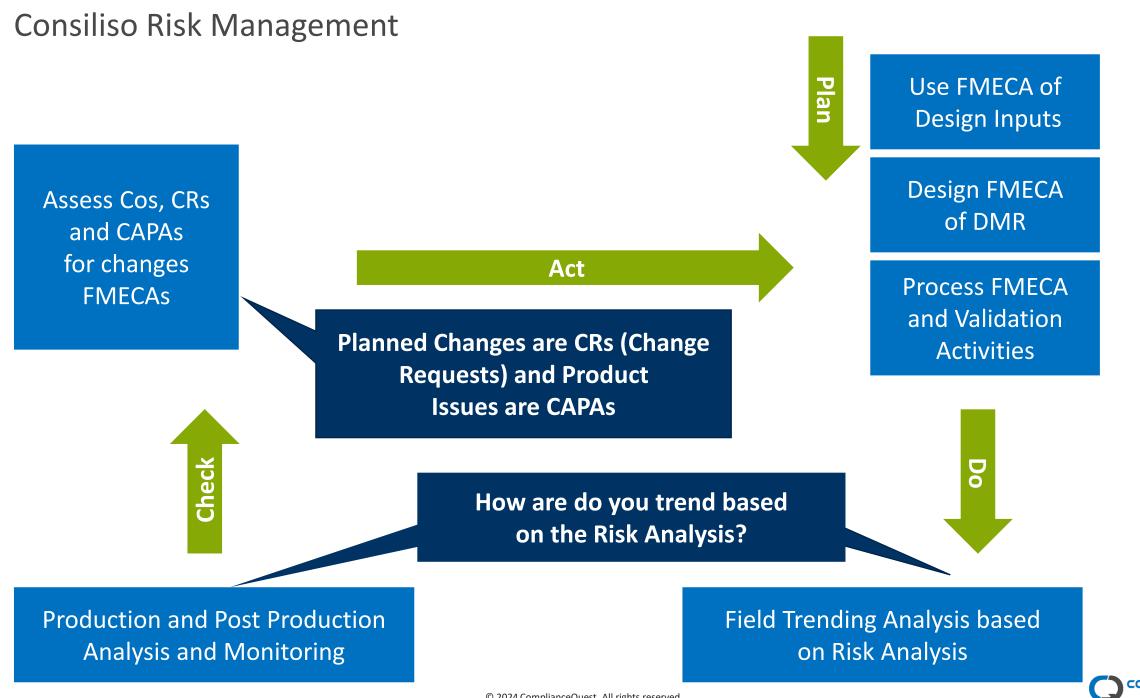
Consiliso Product Processes













Production and Post Production Analysis and Trending – ISO 14971:2019



Create a system to actively collect and review



Information Collection:

• Production, users, install and servicing, supply chain, public/ competitive product information and state-of-the-art (e.g. standards, articles)



Information Review:

• New hazards, risk no longer acceptable, state-of-the-art has changed



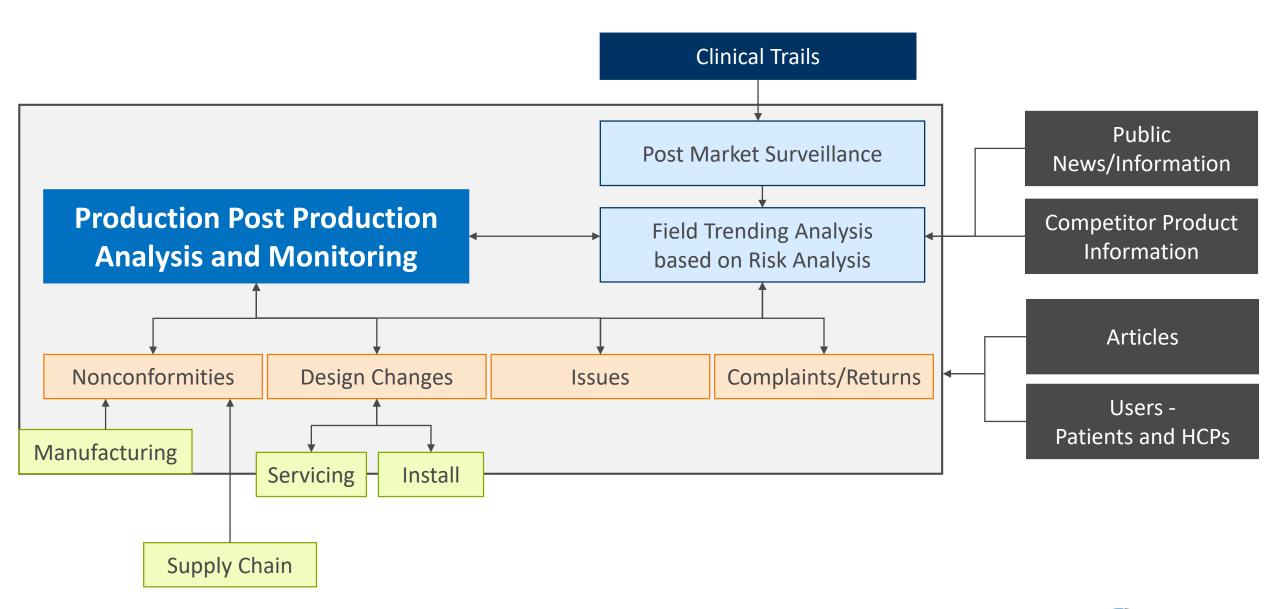
Actions:

- Particular Medical Device-change or field action, update RMF
- Risk Management Process-Evaluate previous risk management activities, update risk management process



What is the best method for Production and Post Production Analysis and Monitoring	
	Updating the Risk Management Reports
	Customer Surveys
	Updating the Clinical Evaluation Reports (CER)
	Publish Product Performance Reports
	Standards Board Reviews
	Supplier Scorecards
	Quality System Management Reviews
	Monthly Product Trend Reviews
	Monthly Manufacturing Reviews
	Clinical Trial Reports

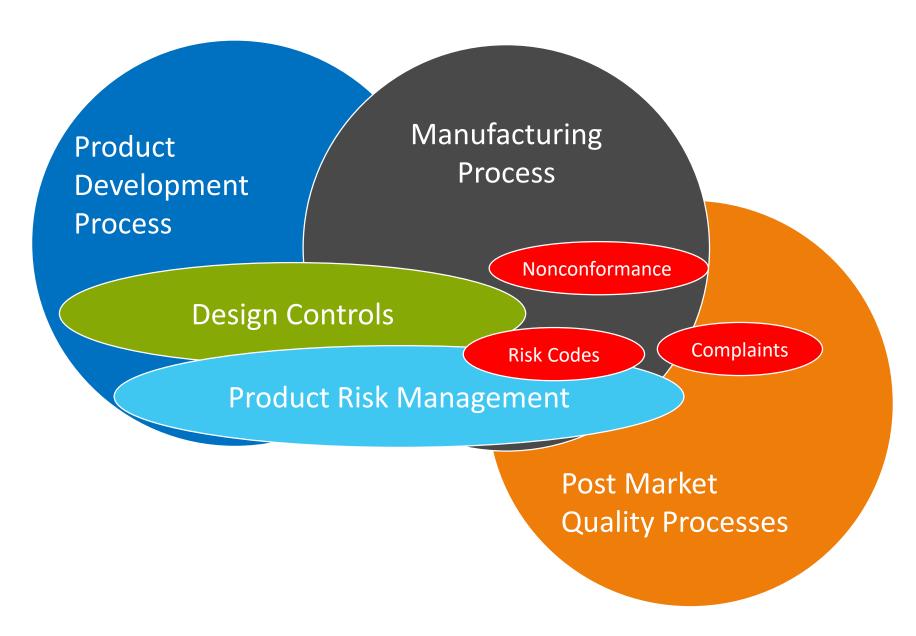
Production and Post Production Analysis and Monitoring



Production and Post Production Analysis and Monitoring – How Do You Do It? Top Ten!



How to Trend Production Issues to Complaints





How to Trend Production Issues to Complaints

By FG Part Number, SKU/Model or Product Line

- Group common designed part numbers
- Group SKU/Model number
- Product lines the same in FMECAs, complaints and nonconformances



- It is obvious, but not defined
- Manufacturing reason codes
- Complaint codes

Rates

- Manufacturing by build quantity
- Field by sales or use quantity



Compare Risk Evaluation to Production Data

FMECA

Complaint

Hazard in product use or possible defects in the design or mfg processes



Product Issue observed

Severity-depending on the cause



Was there a patient intervention?

Detection-can it be found in manufacturing or in use



Did the patient or Healthcare professional see it?



Does Anyone use your Risk Analysis Codes/ID as Nonconformance or Complaint Codes?





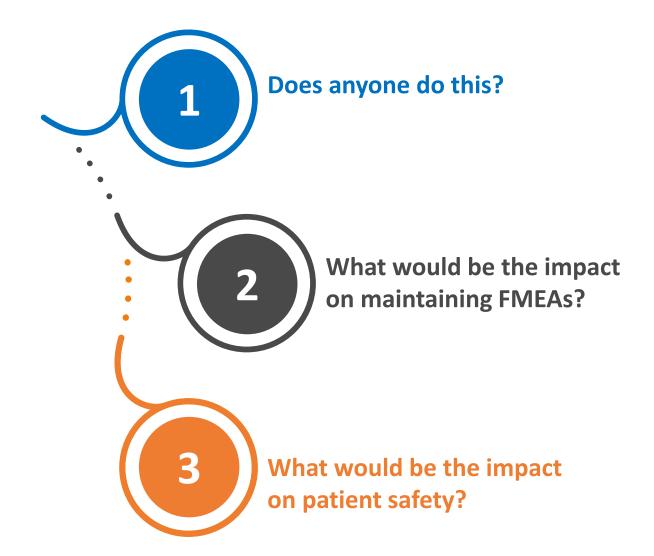
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The New Idea: What if a Company's Risk Assessment and Complaint and Nonconformance Codes were Identical?

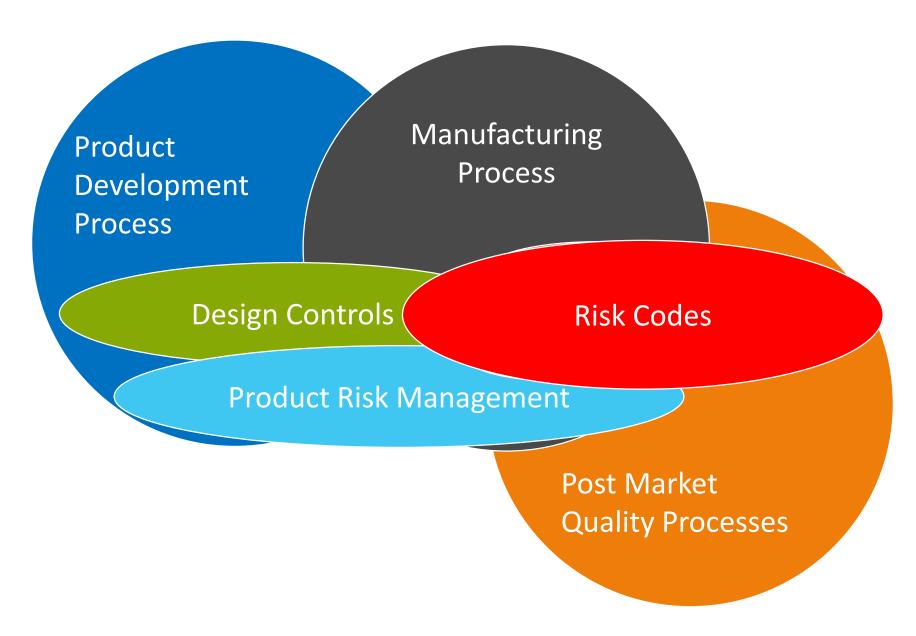




How do I get the complaint group, quality and the design assurance engineers to change their codes?



Consiliso Integrated Risk Management

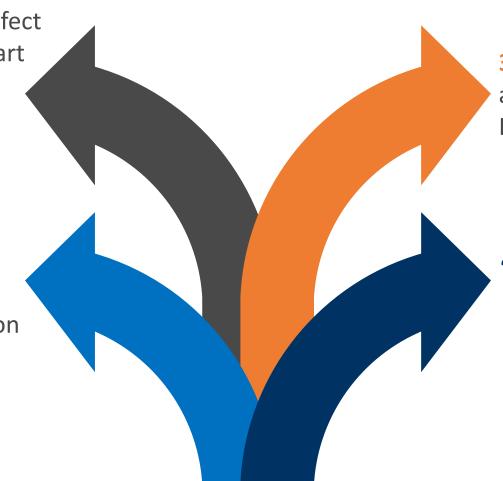




Information Management Planning is the Key

2. Control the harm, hazard, defect and intervention codes like a part (Use the same part lifecycle statuses)

1. Integrate the complaint process, nonconformance process and part/documentation control systems



3. Manage the Risk Management and PDP documents in a Risk Management tool

4. Define Standard Codes



Standardized Harm and Hazard Codes

Seven sets initially released in 2020 and are being maintained



















How Do You Create and Maintain Standard Codes?



Add into your documentation system



Assign lifecycle statuses to each code



Assign metadata on type, use and history



Use a Standards Board to review and approve



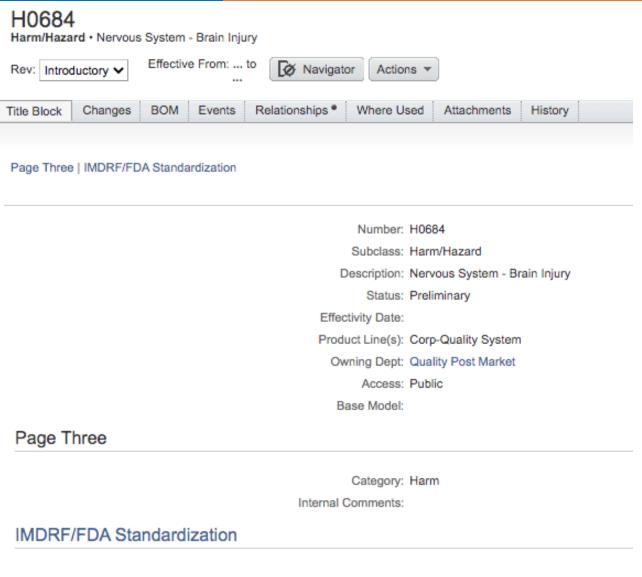
Approved codes are only allowed to be use in FMEAs (i.e. Risk Management Tools)



New codes may be created from complaints but need to be vetted and then released



Example Standard Code



IMDRF Category: E-Health Effect Clinical

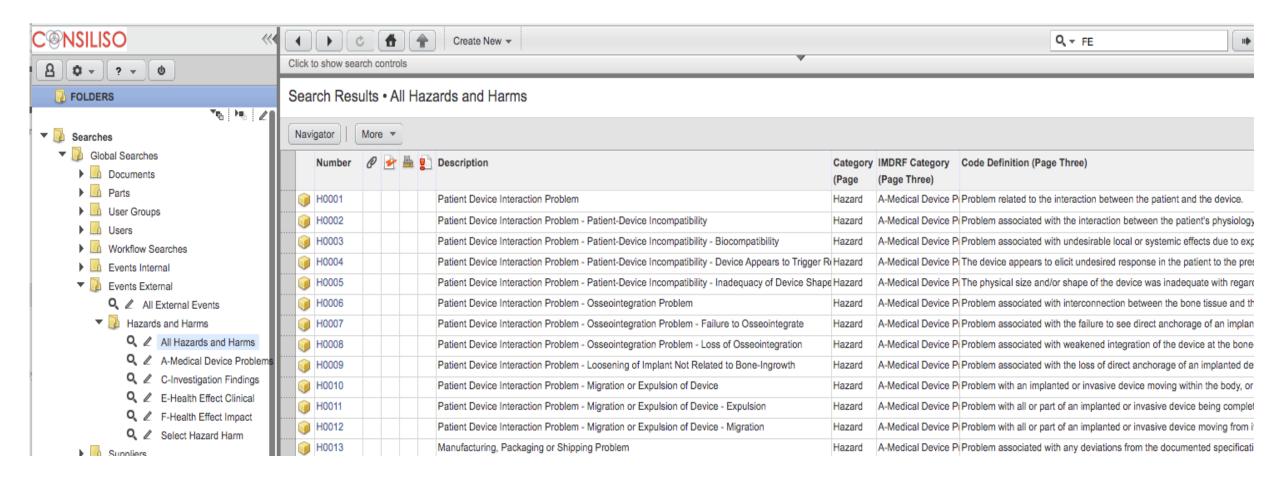
Code Definition: Damage to the brain.

FDA Code: 2219 NClt Code: C50440 IMDRF code: E0102

IMDRF Version: 1.0



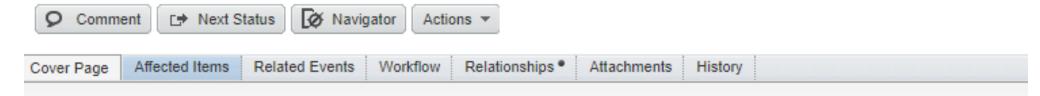
IMDRF codes in PLM system



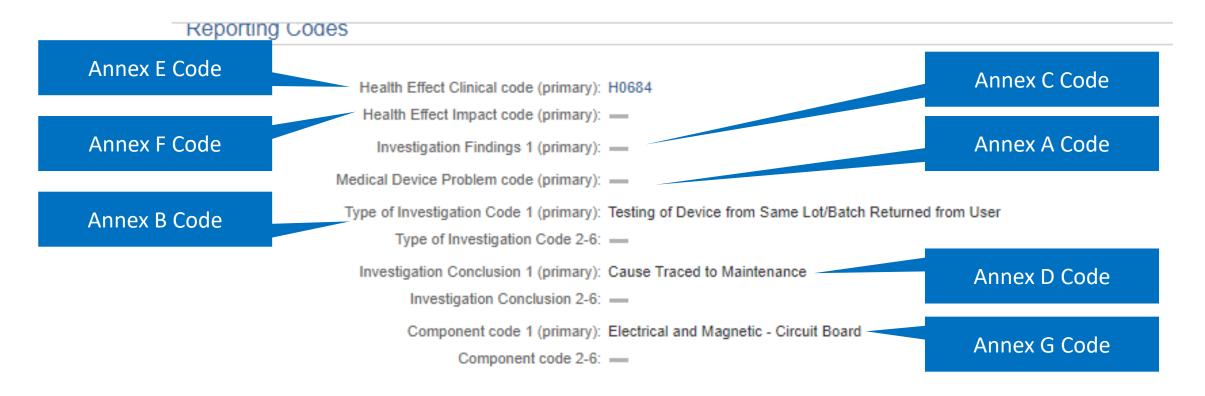
FE-0001-2

Field Adverse Event Report • Patient XXX111, Cleveland Clinic by Dr John Smith

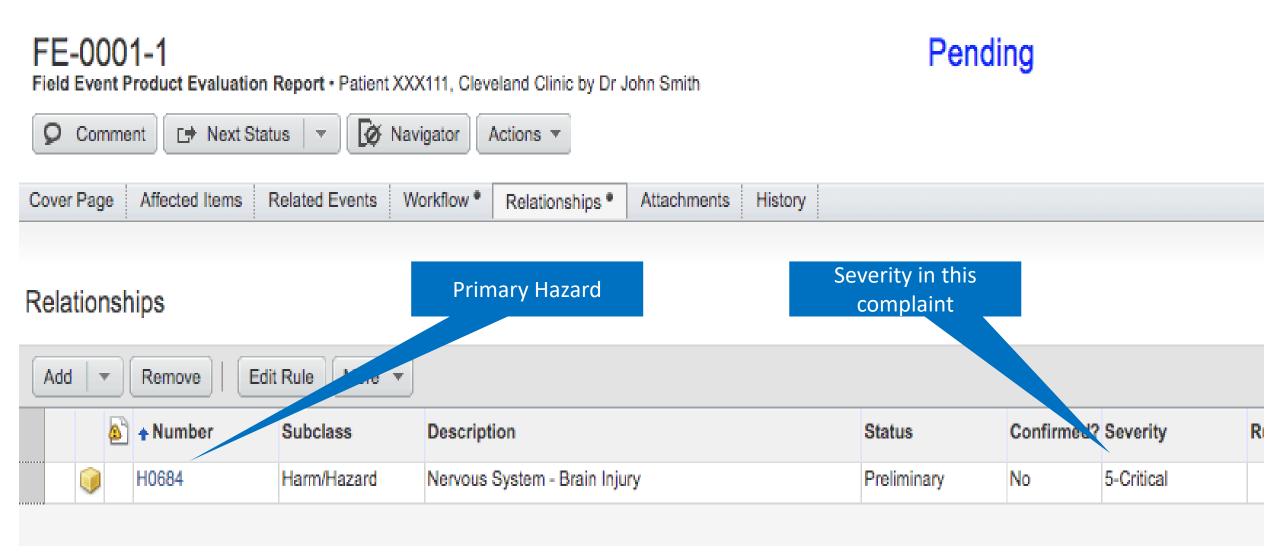
Unassigned



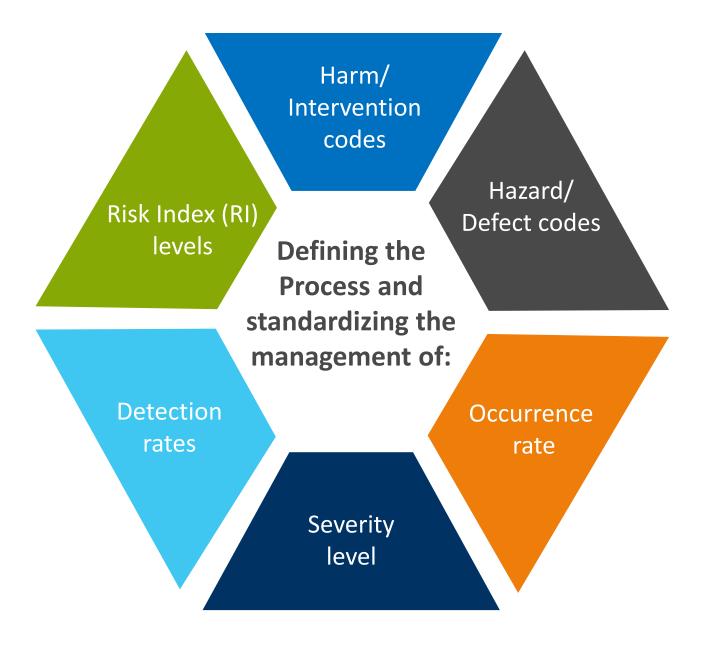
Page Two | Page Three | AE Report Information | Reporting Codes | Field Event Summary Information | Field Event Detail Information | Product Evaluation Information | Product Information | Patient Information



Complaint Analysis link to Harm with Severity





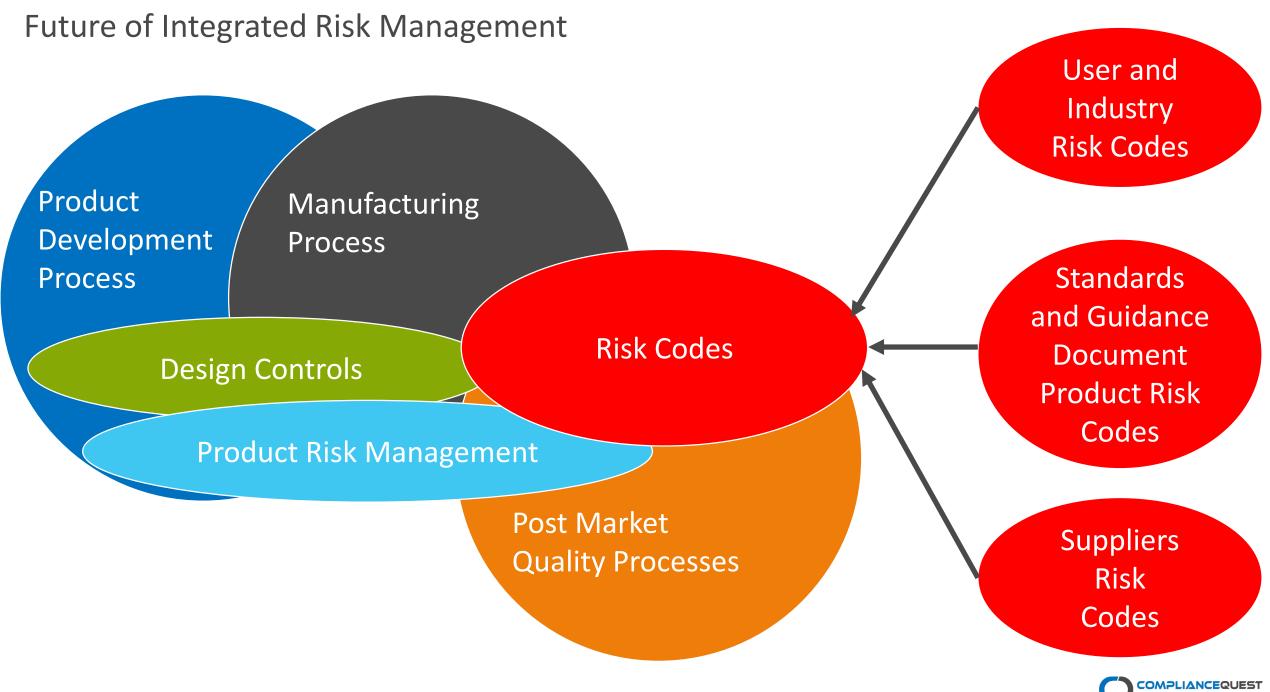


Simplifies your risk assessment process and your ongoing post-production monitoring.



Future of Industry Standards



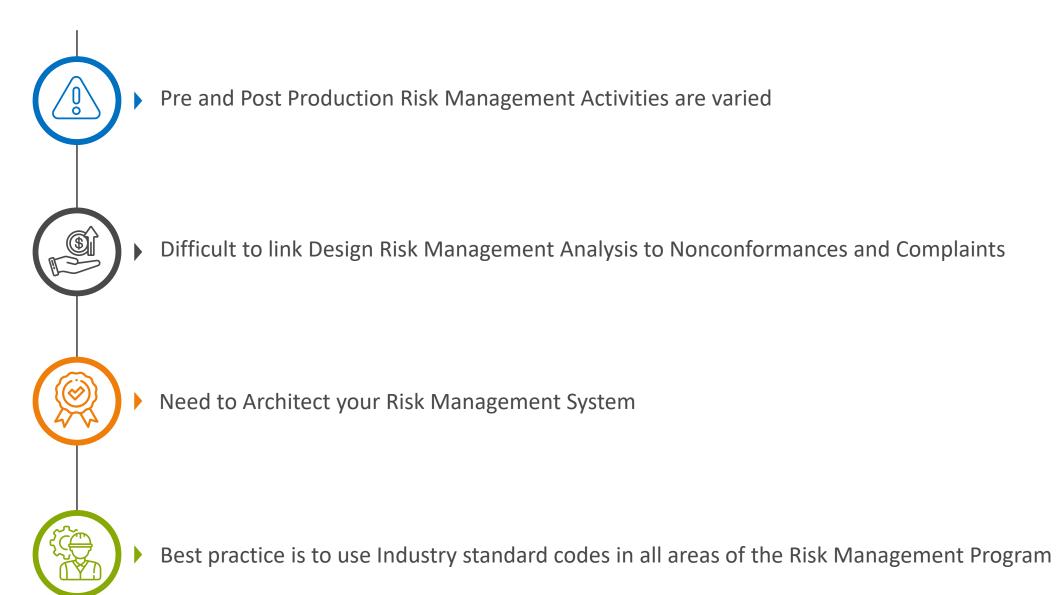


Takeaway

Your manufacturing nonconformances, product complaints and risk assessments should be categorized (i.e. coded) using the **SAME**Harm/Intervention codes and Hazard/Defect codes.



Summary





About ComplianceQuest



About ComplianceQuest

Transform to a fully connected business with a next-generation AI-Powered Product Lifecycle, Quality and Safety management platform, built on Salesforce.

300,000+ Users 1000+ **Customer Sites**

100M+ Active Records being Managed

1000+ Man years Domain Expertise







Financially Strong









Quality & Compliance begins at home and with Salesforce



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Quality Management Software

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Recognized

Time Tested and Proven



Achieve your Quest for Digital Operations

CQ intelligently automates operations from product innovation to customer success

Portal

Analytics

MS Teams)



Runner

PLATFORM POWERED BY

Notification



Validated



casual users





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