Quality Management and Regulatory Affairs

Simplicity and ease-of-use in Risk Management

A perfect world?

Quality Management and Regulatory Affairs

Implementing a risk based approach as per ISO 14971

- Will deliver a knowledge base for
 - Design Control,
 - Process Validation,
 - · Sampling Plans,
 - CAPA,
 - Complaints,
- Enables fast decisions and will set the right priorities
- Ensures compliance internally and externally

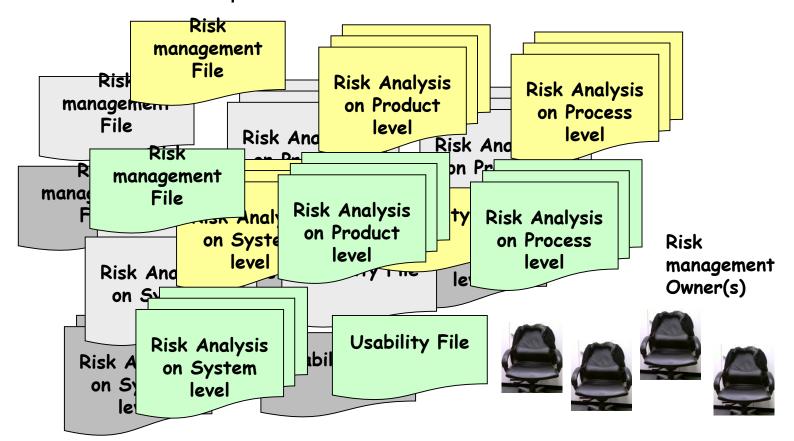
All we need is just



A perfect world?

Quality Management and Regulatory Affairs

Do you have more than product?

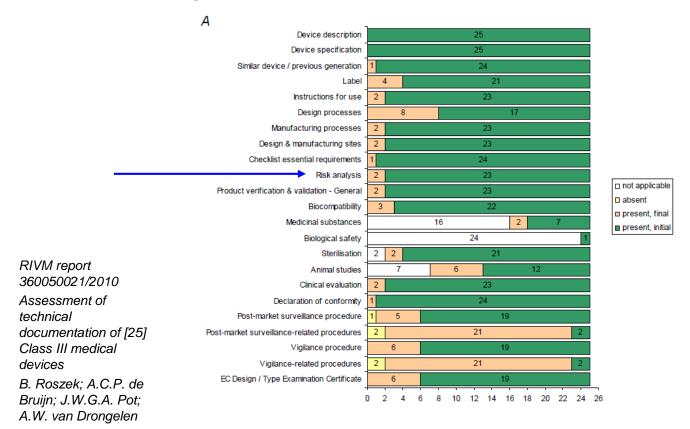


A perfect world?

Quality Management and Regulatory Affairs

What are the consequences?

Risk Management Documents are available....



A perfect world?

Quality Management and Regulatory Affairs

What are the consequences?

Risk Management Documents are poor in quality

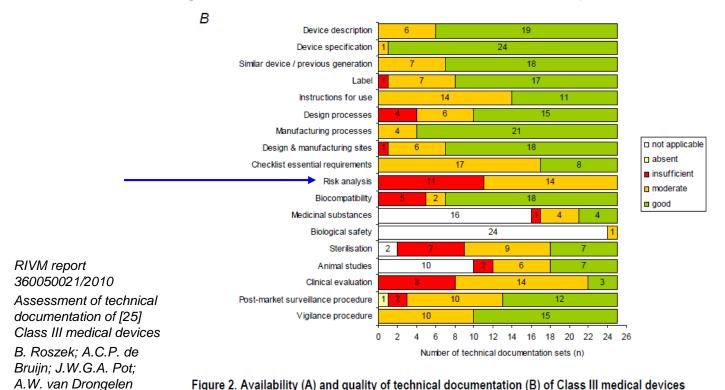


Figure 2. Availability (A) and quality of technical documentation (B) of Class III medical devices 'Present, initial' means present after initial request and 'present final' means present after the final request.

A perfect world?

Quality Management and Regulatory Affairs

What went wrong in Medical device companies since implementation in 2000?

- In many companies Risk Management was most often implemented for compliance reasons
- Focus was given to documentation and risk assessments and evaluations were formalised in excel templates or word files
- Time spent for copy/paste, formatting and PowerPoint Engineering was exceeding the time spent to think about the content itself



A perfect world?

Quality Management and Regulatory Affairs

What went wrong in Medical device companies since implementation in 2000?

- Symptoms of insufficient implementation are
 - 100+ pages of FMEA for simple disposables
 - Inconsistencies between documents,
 - Different severities for the same harm
 - The same failure modes in design and process leading to different harms
 - Extreme levels of details or "helicopter" FMEA's only
 - Low participation in Risk Analysis meetings
 - Low frequency of updates

A perfect world?

Quality Management and Regulatory Affairs

What's the value added?

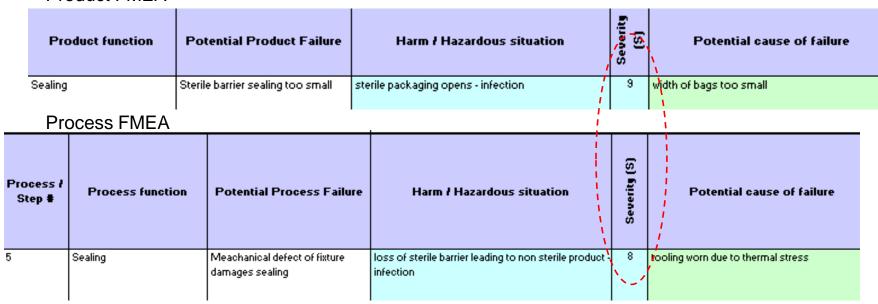
		Riskanalysis (FMEA)									
Titel: Process FMEA-Extrusion		Author									reviewed
											reviewed
		previous revision	N/A								reviewed
	Process-FMEA	Revisions	1					Date:	12.11.2008		
Component or process step	Potential failure	Potential effect of failure	Potential Cause of failure	Current controls	Occurrence	Severity	Detectabilit y	RPN	Recommend- ation	resp	complete d
Extrusion	malfunction of extruder	Products out of spec	technical defect	Maintenance Calibration Work Instruction Training	2	4	2	16	n/a	n/a	n/a
	Wrong material	product too hard	human error	LHR Incomming inspection Training Work Instruction	1	2	5	10	n/a	n/a	n/a

100+ pages FMEA ... and where is the patient?

Quality Management and Regulatory Affairs

Did you ever observe something like this?

Product FMEA



The patient will not be injured less because it was just the process and not the design.

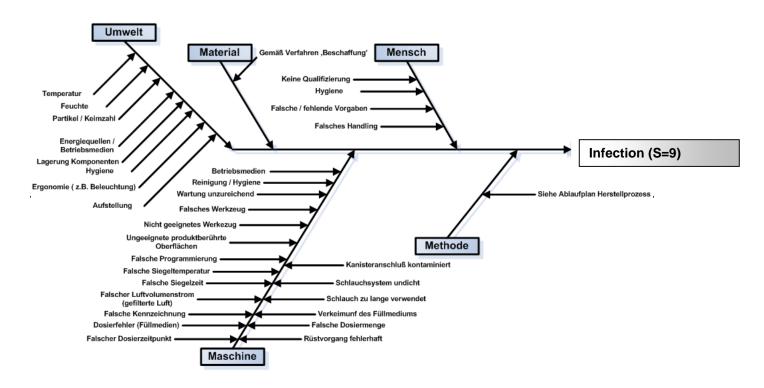
Simplicity and ease-of-use

Quality Management and Regulatory Affairs

Change the way we do Safety Risk Management

- Bring back common sense
- Set roles and responsibilities
- Focus and Prioritize
- Apply the right tools
- Use it!

Start with the most severe harm and identify the areas causing the harm



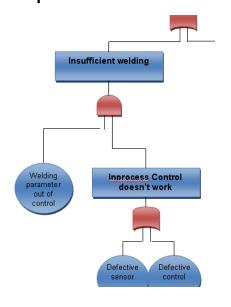
Product and Process knowledge is key

Simplicity and ease-of-use

Quality Management and Regulatory Affairs

Apply the right tools at the right time

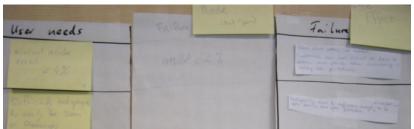
FTA's are often used to evaluate the "reasonable sequence of events"





Brainstorming is the start of each analysis

"Cut & paste"'
can still be done
with paper and
scissors

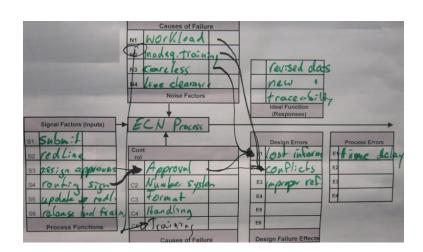


Simplicity and ease-of-use

Quality Management and Regulatory Affairs

Apply the right tools at the right time

P-Diagrams are ideal to prepare Risk Analysis meetings



Quality Management and Regulatory Affairs

Apply the right tools at the right time

Software will be helpful and reduce your workload and problems



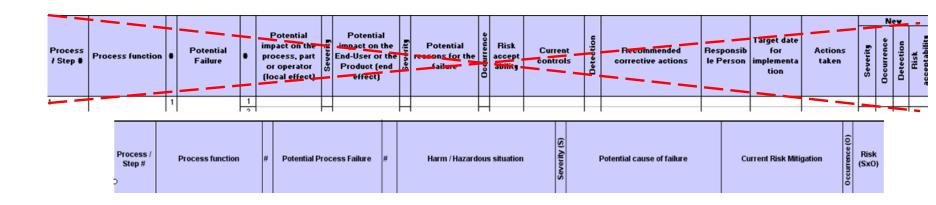
...but don't use it before you determined your process and the way you'd like to live Safety Risk Management.

Simplicity and ease-of-use

Quality Management and Regulatory Affairs

Keep your templates simple and remove the non-essentials

- Do you really need pre- and post-control within one document?
- Is Detectability needed or isn't it easier to go by SxO only?
- Skip local effects like reduced yield or increased costs?



Quality Management and Regulatory Affairs

Change the way we facilitate risk analyses

- Never start a meeting without having the products in your hands
- Process Risk Analysis can be facilitated at the machine
- Use flip-charts, white-boards and clean up afterwards
- Never do it by phone!