



Our experience from using Excel to using myQA PROactive.

Chahrazad Benazzouz *myQA PROactive workshop* 17/04/2023

Introduction

Regulations require integration of a risk assessment

DIRECTIVES

COUNCIL DIRECTIVE 2013/59/EURATOM

of 5 December 2013

Article 63

Accidental and unintended exposures

BELGISCH STAATSBLAD — 20.02.2020 — MONITEUR BELGE

Member States shall ensure that:

Afdeling 6. — Accidentele en onbedoelde blootstellinger

(a) all reasonal (30) ability and	Accidental Art 56.
	source of Alle redelijke maatregelen worden genomen om de waarschijnlijk-
exposures o	devices paeid en de omvang van accidentele en onbedoelde blootstellingen in paet kader van medische blootstellingen tot een minimum te beperken.
	Council D Art. 57.

(c) for all med appropriate events invi

unintended radiological analysis and corrective action should be required in such cases.

 (d) arrangements are made to inform the referrer and the practitioner, and the patient, or their representative, about clinically significant unintended or accidental exposures and the results of the analysis;

 (e) (i) the undertaking declares as soon as possible to the competent authority the occurrence of significant events as defined by the competent authority; Section 6. — Expositions accidentelles et non intentionnelles

Art. 56.

Toutes les mesures raisonnables sont prises pour limiter au maximum la probabilité et l'ampleur des expositions accidentelles et non intentionnelles dans le cadre des expositions médicales.

Art. 57.

Pour les pratiques radiothérapeutiques, le programme d'assurance de qualité doit inclure une analyse proactive du risque d'expositions accidentelles et non intentionnelles en tenant compte des recommandations internationales en la matière. Cette analyse de risque permet d'identifier les risques potentiels, leur probabilité et leur impact potentiel, et elle décrit les mesures destinées à maîtriser ces risques.

REGULATIONS

REGULATION (EU) 2017/745 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 5 April 2017

on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC

Manufacturers shall establish, implement, document and maintain a risk management system.

Risk management shall be understood as a continuous iterative process throughout the entire lifecycle of a device, requiring regular systematic updating. In carrying out risk management manufacturers shall:

- (a) establish and document a risk management plan for each device;
- (b) identify and analyse the known and foreseeable hazards associated with each device;
- (c) estimate and evaluate the risks associated with, and occurring during, the intended use and during reasonably foreseeable misuse;
- (d) eliminate or control the risks referred to in point (c) in accordance with the requirements of Section 4;
- (e) evaluate the impact of information from the production phase and, in particular, from the post-market surveillance system, on hazards and the frequency of occurrence thereof, on estimates of their associated risks, as well as on the overall risk, benefit-risk ratio and risk acceptability; and
- (f) based on the evaluation of the impact of the information referred to in point (e), if necessary amend control measures in line with the requirements of Section 4.





Introduction

The report of Task Group 100 of the AAPM: Application of risk analysis methods to radiation therapy quality management

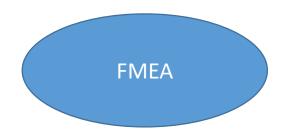


Table II. Descriptions of the O, S, and D values used in the TG-100 FMEA.

Rank	Occurrence (O)		Severity (S)		Detectability (D)
	Qualitative	Frequency in %	Qualitative	Categorization	Estimated Probability of failure going undetected in %
1	Failure	0.01	No effect		0.01
2	unlikely	0.02	Lucamoniana	Incomparions	0.2
3	Relatively few failures	0.05	- Inconvenience	Inconvenience	0.5
4		0.1	Minor dosimetric error	Suboptimal plan or treatment	1.0
5		< 0.2	Limited toxicity or tumor		2.0
6	Occasional failures Repeated	< 0.5	underdose	Wrong dose, dose	5.0
7		<1	Potentially serious toxicity or	distribution, location, or volume	10
8		<2	tumor underdose	location, of volume	15
9	failures	<5	Possible very serious toxicity or tumor underdose	Very wrong dose, dose distribution,	20
10	Failures inevitable	>5	Catastrophic	location, or volume	>20





How we used to work...



UZ LEUVEN

1. Multidisciplinary team



See it as a project or subtask of an project

Form a dedicated team of expertise

At least one person of each discipline

Facilitated by QM





2. Process mapping



First draft foreseen by QM

Reviewed by each member of

the team







3. Identify FM



Identify potential FM, their cause and effects.

Let each member of the team prepare it on their own.

Go through it together and discuss.



4. Let the scoring begin



Each member prepares the scoring on their own.

 $O \times S \times D = RPN$

Go through it together and discuss.







5. Formulate actions



Prioritize the risks

Formulate actions to be taken to control/prevent the FM from happening

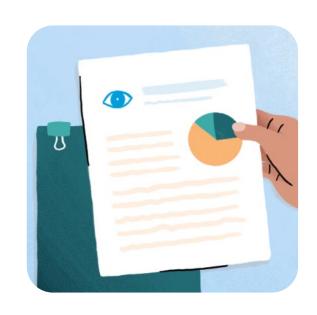
Dedicate each action to a person

Followed up by QM





Make a report.



Name of the involved ones.

Summary of the analysis.

Actions and their status.

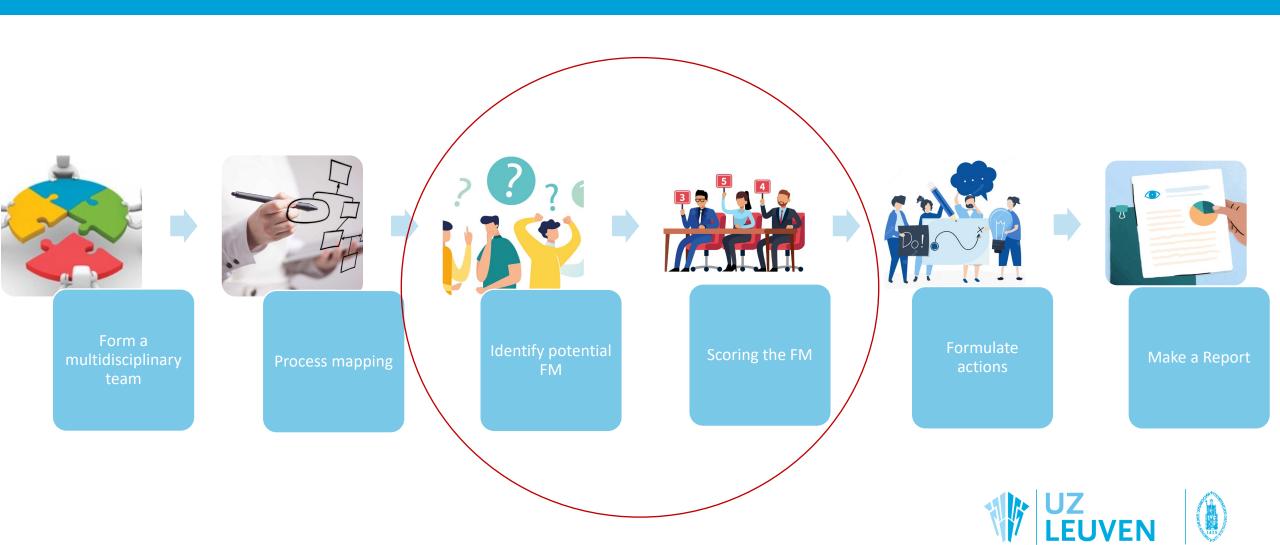
Conclusion.



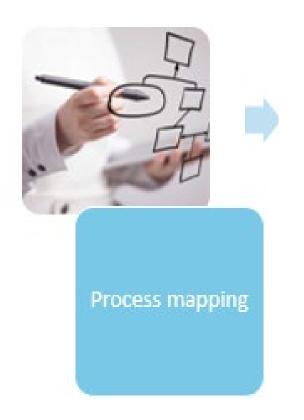


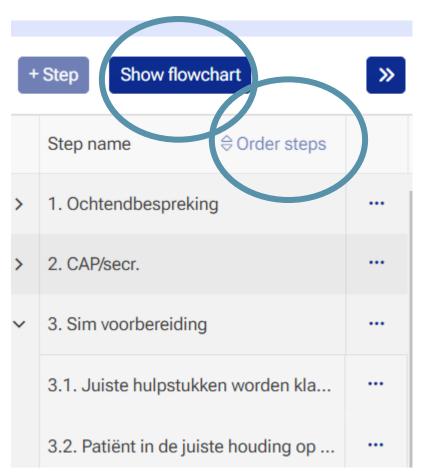


And now with myQA PROactive?



Process mapping



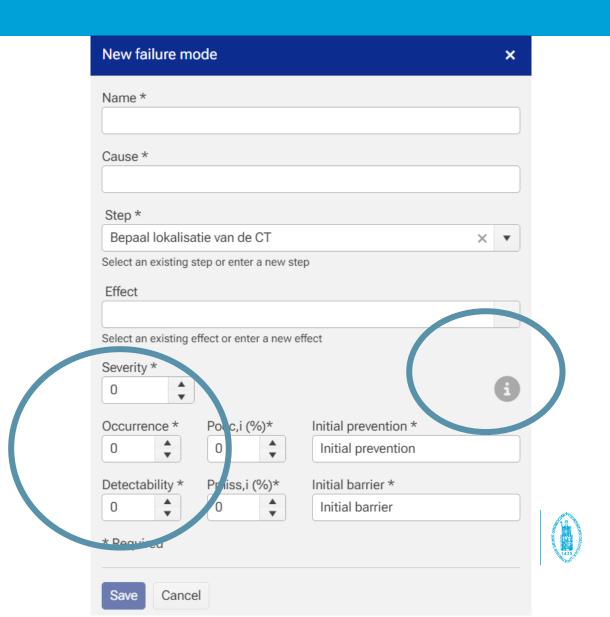




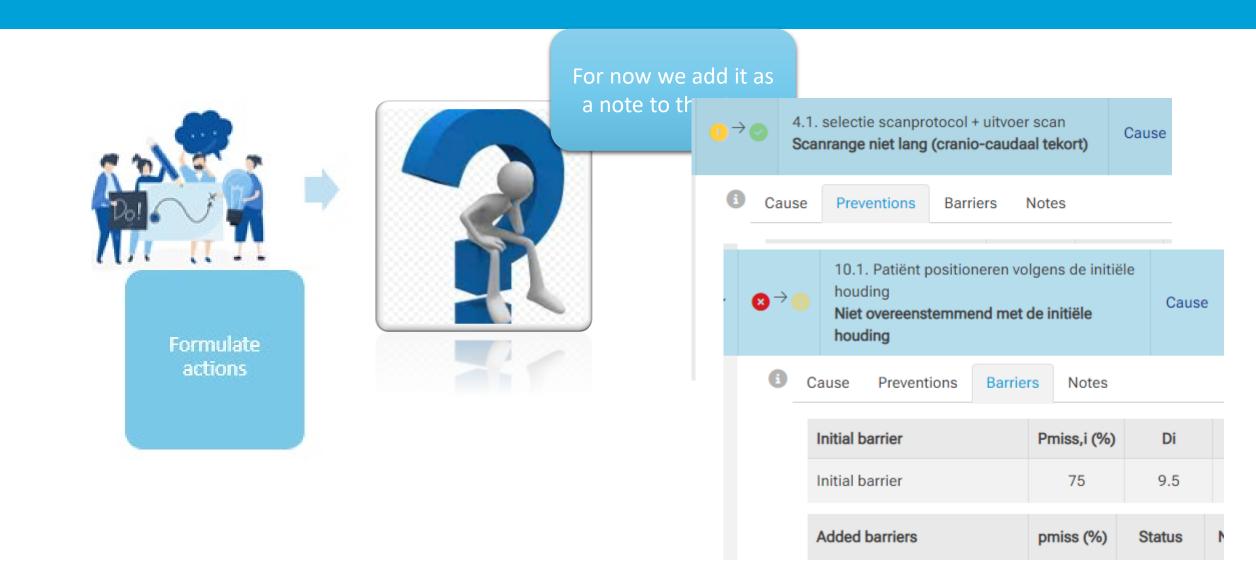


Identifying and scoring the potential FM

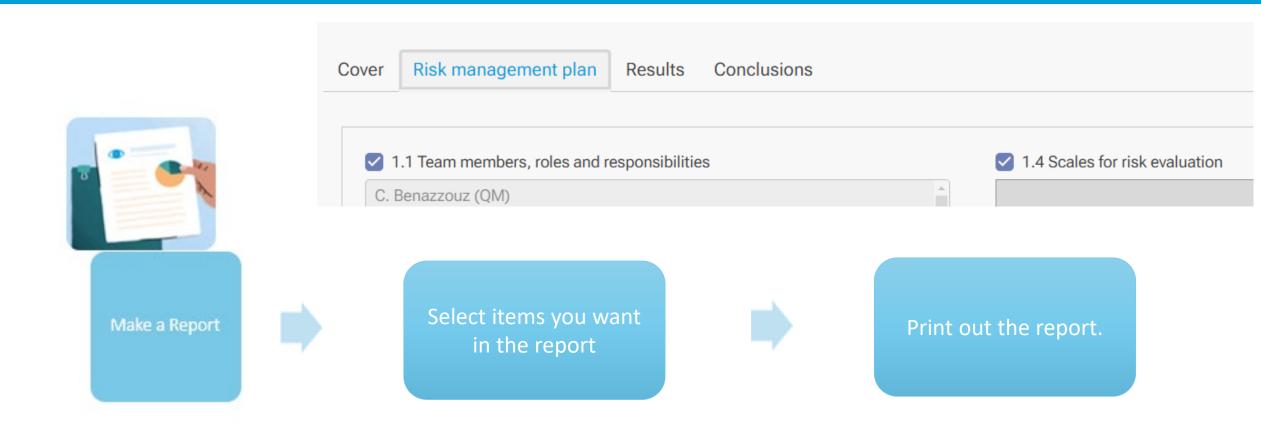




Formulate actions



Make a report

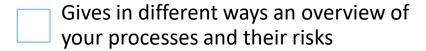




To summarize









Report

Templates



Not possible to have scorings of > 1 person (as preparation)

Identifying FM and scoring at the same moment

Formulating actions + status





Thank you for your attention!



