Risk Management





YOUR presenter

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What we will discuss

(in the next 30 min)



- Risk Management in General
- Principles of risk management
- Essential areas of the Risk Management Plan (RMP)
- How to prepare a good Risk Management Plan
- Impact of new legislation

DrAWenzel/EUV/RMP CRED/Feb2013

Pharmacovigilance & Risk

"The dose makes the poison."







"All things are poison, and nothing is without poison; only the dose permits something not to be poisonous"

Paracelsus (1493-1541)

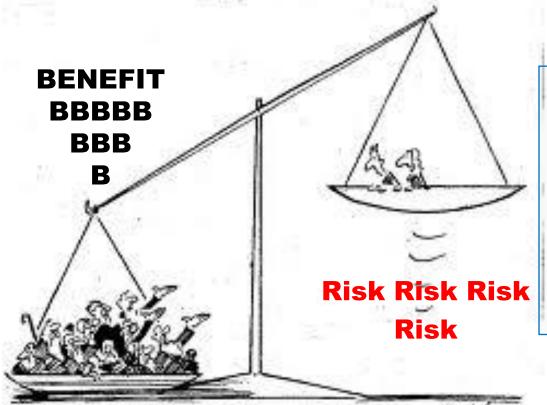
To undergo treatment you have to be very healthy, because apart from your sickness you have to withstand the medicine.

Molière (french comedian)



Overall Objectives of Risk Management Planning





Optimization
of the
Benefit –
Risk ratio

"To ensure that the benefits of a particular medicine exceed the risks by the greatest achievable margin for the individual patient and for the target population as a whole"

Definition

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The Risk Management System

A set of pharmacovigilance activities and interventions designed to

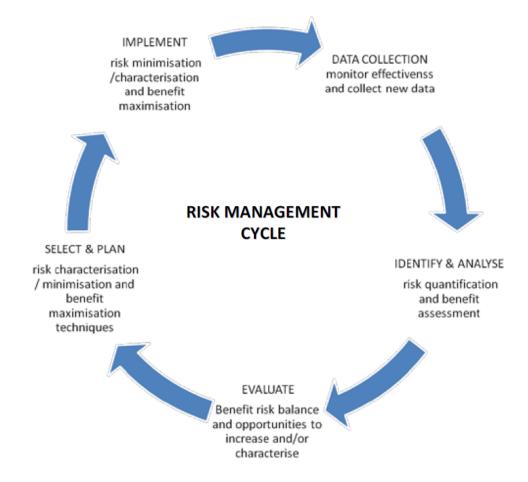
- identify,
- characterise,
- prevent or minimise

RISKs relating to medicinal products, including the assessment of the effectiveness of those interventions

- Carried out by Applicant/MAA
- Evaluated by the Authorities

The risk management cycle





http://www.ema.europa.eu/docs/en_GB/document_library/Scientific_guideline/2012/06/WC500129134.pdf

What DRUG Risk Management is Not !!!??





Generally, Risk Management is the process the strategies employed include transferring the risk to another party, avoiding the risk, reducing the negative effect of the risk, and accepting some or all of the consequences of a

"And now at this point in the meeting I'd like to shift the blame away from me and onto someone else."

MASlen



Common Assumptions





Safety
Decisions
Must Be
Evidence
Based

Industry and Regulators Joint Responsibility

No Individual Source of Information Should Be Viewed in Isolation

What says EU legislation?



*[
EUDRA Lex	(European Union Drug Regulatory Authorities Legislation)							
Vol. 1	Legislation MPs human							
Vol. 2	Notice to applicants (nta) and reg. Guidance human							
Vol. 3	Scientific guidance human							
Vol. 4	GMP guidance human + vet							
Vol. 5	Legislation MPs vet							
Vol. 6	Nta and reg. Guidance vet							
Vol. 7	Scientific guidance vet							
Vol. 8	MRL (vet)							
Vol. 9	Pharmacovigilance guidance (human and vet)							
Vol. 10	Clinical trial guidance							



Medicinal products for paediatric use, orphan, herbal medicinal products and advanced therapies are governed by specific rules

EudraLex Vol 9



- Volume 9A: pharmacovigilance guidance for human medicinal products
 - With the application of the new pharmacovigilance legislation as from July 2012 Volume 9A is replaced by the good pharmacovigilance practice guidelines(GVP) released by the EMA. However, until the availability of the respective GVP modules Volume 9A remains the reference.
- Vol 9 B: Guidelines on Pharmacovigilance for Medicinal Products for Veterinary Use (Volume 9B version October 2011)

GUIDANCE ON GOOD PHARMACOVIGILANCE PRACTICES (GVP)									
INTRODUCTION	Legal Basis and Structure of Pharmacovigilance Guidance								
MODULE I	Pharmacovigilance Systems and their Quality Systems								
MODULE II	Pharmacovigilance System Master File								
MODULE III	harmacovigilance Inspections								
 MODULE IV	Pharmacovigilance Audits								
MODULE V	Risk Management Systems								
MODULE VI	Management and Reporting of Adverse Reactions to Medicinal Products								
MODULE VII	Periodic Safety Update Report								
MODULE VIII	Post-Authorisation Safety Studies								
MODULE IX	Signal Management								
MODULE X	Additional Monitoring								
MODULE XI	Public Participation in Pharmacovigilance								
MODULE XII	Continuous Pharmacovigilance, Ongoing Benefit-Risk Evaluation, Regulatory Action and Planning of Public Communication								
MODULE XIII	For references to incident management, see Module XII								
MODULE XIV	International Collaboration								
MODULE XV	Safety Communication								
MODULE XVI	Tools, Educational Materials and Effectiveness Measurement for Risk Minimisation	13							

Basic Components of a Risk Management Plan



Risk Management Plan

Safety Specification

Summary of important identified risks, important potential risks and missing information (ICH E2E)

Pharmacovigilance Plan

Based on safety specification; Routine PV practices and action plan to investigate specific safety concerns (ICH E2E)

Risk Minimization

Activities to be taken to minimize the impact of specific safety concerns on the benefit-risk balance

Overview of the parts and modules of the RMP

Product(s) overview

Part II Safety specification

Part I

Part IV

Part V

Part VI

Part VII

Module SI Epidemiology of the indication(s) and target population(s)

Module SII Non-clinical part of the safety specification

Module SIII Clinical trial exposure

Module SIV Populations not studied in clinical trials

Module SV Post-authorisation experience

Module SVI Additional EU requirements for the safety specification

Module SVII Identified and potential risks

Module SVIII Summary of the safety concerns

Part III Pharmacovigilance plan

Plans for post-authorisation efficacy studies

Risk minimisation measures (including evaluation of the effectiveness of risk minimisation measures)

Summary of the risk management plan

Annexes

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RMP Part I, Overview



Active substance information:

- active substance(s);
- ATC code / pharm-therapeutic group(s)
- name of MAH /applicant;
- date and country of first authorisation worldwide
- date and country of first launch worldwide
- number of medicinal product(s) to which this RMP refers.

Administrative information

- on the RMP:
- data lock point of the current RMP;
- date submitted and the version number;
- list of all parts and modules of the RMP with date and version of the RMP when the part/module was last (updated and) submitted.

RMP Part I, Overview



- authorisation procedure (CP; MRP, DCP, nat)
- invented name in EEA
- brief description of DP:
 - chemical class;
 - mode of action;
 - information re composition
- indications:
 - Current in the EEA;
 - Proposed in the EEA;

Dosage:

- Current in the EEA;
- Proposed in the EEA;
- pharmaceutical forms and strengths:
 - Current in the EEA;
 - Proposed in the EEA
- whether the product is subject of additional monitoring in the EU

EU Vigilance Ltd.

Also very helpful: **Q & A**

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3. Risk Management Plan (RMP)

- 3.1. Am I required to have a **risk management plan** for my **initial marketing authorisation application**?
- 3.2. Do I have to **continue to operate** the RMP for my existing medicinal product?
- 3.3. For my risk management plan to be submitted shortly after 2 / 21 July 2012, what format should I use? (Update November 2012)
- 3.4. For my risk management plan to be submitted after 10 January 2013, what format should I use? (New November 2012)
- 3.5. Will a summary of my RMP be published?
- 3.6. Do I need to submit an RMP for my traditional herbal medicinal product?
- 3.7. Do I need to submit an RMP for my homeopathic medicinal product?

RMP part II "Safety specification"



a synopsis of the safety profile of MP(s):

- what is known > important identified risks
- ☐ what is **NOT** known ☐ important potential risks

the safety specification will form the basis of the

- ✓ pharmacovigilance plan, and
- ✓ the risk minimisation plan.

8 RMP "Safety specification" modules



Module SI Epidemiology of the indication(s) and target population(s)

Module SII Non-clinical part of the safety specification

Module SIII Clinical trial exposure

Module SIV Populations not studied in clinical trials

Module SV Post-authorisation experience

Module SVI Additional EU requirements for the safety specification [

Module SVII Identified and potential risks

Module SVIII Summary of the safety concerns

correspond to safety specification headings in ICH-E2E. RMP module SVI includes additional elements required to be submitted in the EU.

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Module S 6 (EU specific)

- Potential for harm from overdose
- Potential for transmission of infectious agents
- Potential for misuse for illegal purposes
- Potential for medication errors
- Potential for off-label use
- ☐ Specific paediatric issues

RMP Part III "Pharmacovigilance plan"



intended purpose: to discuss how MAH plans to identify / characterise the risks. It should be a structured plan for:

- the identification of the new safety concerns;
- further characterisation of known safety concerns including elucidation of risk factors;
- the investigation of whether a potential safety concern is real or not;
- □ how important missing information will be sought.





Pharmacovigilance activities can be divided into

- routine pharmacovigilance activities and
- additional pharmacovigilance activities.

For each safety concern, the planned PV activities should be listed. The proposed action should be proportionate to the risks of the product. If considered sufficient for post-authorisation safety monitoring, "routine pharmacovigilance" should be entered against the safety concern.



Routine PV activities

• the set of activities required to fulfil the legal requirements for Dir 2001/83/EC and Regulation (EC) No 726/2004.

Also:

- explain how the applicant will modify its routine pharmacovigilance activities to fulfil any special PRAC, CHMP or CMDh recommendations on routine pharmacovigilance.
- (NOT the place to present the Pharmacovigilance System Master File, PSMF)

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Additional PV activities

- □ eg. Long term follow-up of patients to identify/confirm certain risk
- eg. PASS, pharmacokinetic studies, other clinical trials or further pre-clinical work
- ☐ eg. Surveillance of specific target patient population
- ☐ Eg. Pharma-epidemiological studies
- When any doubt exists about the need for additional PV activities, consultation with a competent authority should be considered

Additional PV activities

- Action plans for safety concerns with additional pharmacovigilance requirements
- Summary table of additional pharmacovigilance activities

Annexes with study synopsis and other details should also be provided

RMP part IV "Plans for postauthorisation efficacy studies"



- products with a concern about efficacy which can only be resolved after the product has been marketed,
- applications
 - ☐ For a MA that include a paediatric indication
 - ☐ to include a paediatric indication in an existing MA
 - for a paediatric use marketing authorisation
 - for advanced therapy medicinal products.

May need long term follow-up of efficacy as part of post-authorisation surveillance

RMP Part V "Risk minimisation measures"



On the basis of the safety specification, the MAH should assess what risk minimisation activities are needed for each safety concern.

- each safety concern needs to be considered on a case-bycase basis
- will depend upon
 - ☐ the severity of the risk,
 - ☐ the healthcare setting,
 - □ the indication,
 - ☐ the pharmaceutical form
 - the target population.



RMP Part V "Risk minimisation measures"



Risk minimisation activities may consist of

- ☐ routine risk minimisation or
- additional risk minimisation activities

All risk minimisation activities should have a clearly identifiable objective.

(Risk minimisation measures and the assessment of their effectiveness is discussed in more detail in Module XVI)

RMP part V "Routine risk minimisation"



Routine risk minimisation activities are those which happen with every medicinal product.

These relate to:

- → the SPC (eg. warnings)
- the labelling (eg. exclude populations)
- → the package leaflet (see SPC)
- ☐ the pack size(s) (eg. not more than 1 DD/per pack)
- the legal status of the product. (eg. Rx by special Physician)

RMP part V





- only be suggested when necessary for the safe / effective use of the MP
- be detailed and a justified
- be science based

Often based on communication beyond the SmPC/PIL

Additional risk minimisation activities will become, once agreed by the authority, conditions of the marketing authorisation





"Additional risk minimisation activities"

Examples

- Boxed warnings
- Prescription only by specialised doctors
- ☐ Special training for prescribers / patients
- Educational material for patients
- Diagnostic follow up of each prescription

Format to present Risk Minimisation measures



is included in Madule

- objective of proposed action(s)
- routine risk minimisation activities *
- additional risk minimisation activities (if any), manitaring the effectiveness of risk minimisation activities
 - individual objectives and
 - justification of why needed
- how the effectiveness will be evaluated
- what is the target / criteria for judging success;
- milestones for evaluation and reporting.

For routine risk minimisation activities, the proposed text in the SmPC should be provided along with details of any other routine risk minimisation activities proposed.

RMP part VI "Summary of activities in the risk management plan"

will be included in the EPAR



A summary of the RMP shall be made publically available must include key elements of the RMP safety specification should contain information on potential and identified risks and lack of knowledge specific focus on risk minimisation activities. should be written for the lay reader should present risks + benefits as a balanced picture

RMP part VI "Summary of activities in the risk management plan"



based	d on RMP Ms SI, SVIII and RMP parts IV+V):
O \	verview of disease epidemiology
☐ su	ummary of benefits/efficacy
☐ su	ımmary of safety concerns (in lay language)
☐ ta	bles:
	summary of risk minimisation activities by safety concern
	planned post-authorisation development plan (safety and efficacy) including specific details that will become

conditions of the marketing authorisation.



Annexes

- 1. Interface RMP/Eudravigilance/EPITT
- 2. SPC and PIL (current (or proposed)
- 3. Synopsis of clinical trials
- 4. Synopsis pharmaco-epidemiological studies
- 5. Protocols for proposed studies in RMP part III
- 6. Specific adverse event follow-up forms



Annexes

- 7. Protocols for proposed studies in RMP part IV
- 8. Newly available study reports
- 9. Details of proposed additional risk minimisation activities
- 10.Example(s) of actual material provided to HPs and patients
- 11. Other supporting data (incl. references)

Points to consider

Different types of application, different types of submission TOPRA

Type of new application		irt II-Module SI	Part II-Module SII	Part II-Module SIII	Part II-Module SIV	Part II-Module SV	Part II-Module SVI	Part II-Module SVII	Part II-Module SVIII	Part III	Part IV	Part V	Part VI	Part VII
		Pa	a.	ď	a.	g,	a.	g.	a.	g,	g.	P.	g.	a.
New active substance		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Similar biological			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Informed consent ¹		✓	✓	✓	✓	✓	✓	✓	✓	*	*	✓	*	✓
Generic medicine									✓	*	*	✓	*	✓
Hybrid medicinal products		✓	^	^	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fixed combination		✓	^	^	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
"Well established use"		✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
"Same active substance"		✓	*	*	*	✓	✓	✓	✓	✓	✓	✓	✓	✓

and other **points** to consider are discussed in the presentation of

^{*} Modified requirement



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¹ Application under Article 10(c) of Directive 2001/83/EC

[^] May be omitted under certain circumstances

"Before I came here I was confused about this subject.
Having listened to your lecture I am still confused.

But on a higher level."

Enrico Fermi Italian physicist. developed the first nuclear reactor



Danke für
Ihre
Aufmerksamkeit



Any questions?

You may contact me directly:



EU Vigilance Ltd.

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