

Regulators initiative: the PML research agenda

Transatlantic workshop: Drug-related Progressive Multifocal

Leukoencephalopathy (PML)

25-26 July 2011: European Medicines Agency

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Agenda for this Presentation

- Why are regulators proposing a Research Agenda for PML
- How this Agenda was developed
- Proposed Research Agenda
- The way forward



Background

- The advent of novel therapies for a variety of immunemediated disorders has been accompanied by the emergence of PML as an important drug-induced adverse event.
- Because of the impact of PML on public health there is a need to focus research efforts onto key questions linked to public health protection.
- Novel collaborative approach may be transferable to other public health/regulatory challenges.



Why are regulators proposing a Research Agenda for PML?

- Some issues identified on product-specific setting
- Common challenges and common needs across products and therapeutic areas
- Challenging circumstances surrounding PML

Demand new ways to allow the use of highly efficacious medicines to fulfil unmet medical needs

- Stimulation of PML research
- Integration of PML research



- Effective risk minimisation steps
- Optimisation of benefit risk balance
- Better public health protection & promotion

How this Agenda was developed?

- Initiative of the European Medicines Agency (EMA) and the Food and Drug Administration (FDA)
- Through review of:
 - existing evidence-base,
 - product-based experience,
 - operational experience in both the EU and the U.S. of regulating medicines associated with PML.
- This research agenda embraces:
 - basic biology,
 - clinical aspects,
 - risk management issues to provide a framework for managing the risk of druginduced PML.
- This research agenda identifies:
 - key questions, and
 - the accelerated delivery of answers.
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Research Agenda

The objective is to improve public health by accelerating the delivery of answers to JCV and PML knowledge gaps which will impact, either directly or indirectly, on the prevention or treatment of drug induced PML.

Proposed Research Agenda

Key Research Questions regarding Drug-induced PML to support practical interventions:

- 1. What is the best approach to ascertain the number of drug-induced cases of PML?
- 2. Is it possible to identify populations at risk or patients not at risk prior to the treatment initiation with a drug associated with PML?
- 3. Are there early biomarkers of drug-induced PML that might be used in the mitigation of severity of the clinical manifestation of PML?
- 4. What is a suitable in vivo/animal model for PML?
- 5. What are the best drugs or combination of drugs with anti-JCV activity?
- 6. What are the best treatment strategies for both PML and IRIS?
- 7. What is the long-term safety and effectiveness of plasma exchange/immunoadsorption in patients with drug-induced PML?
- 8. What is the best tool for evaluation of effectiveness of risk minimisation activities in PML?
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 What is the best approach to ascertain the number of drug-induced cases of PML?

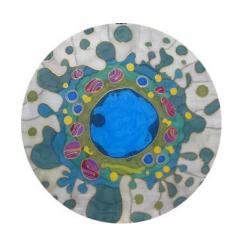
- Case definition
- Case capture





 Is it possible to identify populations at risk or patients not at risk prior to the treatment initiation with a drug associated with PML?

Such stratification
would have a direct
benefit on decisions
involving risk for patients





 Are there early biomarkers of drug-induced PML that might be used in the mitigation of severity of the clinical manifestation of PML?



 Early diagnosis is associated with better outcome



- What is a suitable in vivo/animal model for PML?
 - A model would be invaluable to test new treatments







- What are the best drugs or combination of drugs with anti-JCV activity?
 - Currently no specific treatment available



 What are the best treatment strategies for both PML and IRIS?



- Can the benefits of proposed therapies be demonstrated?
- How can we best treat IRIS?



 What is the long-term safety and effectiveness of plasma exchange/immunoadsorption in patients with drug-induced PML?



- How can we measure long-term harm and benefit in these patients?



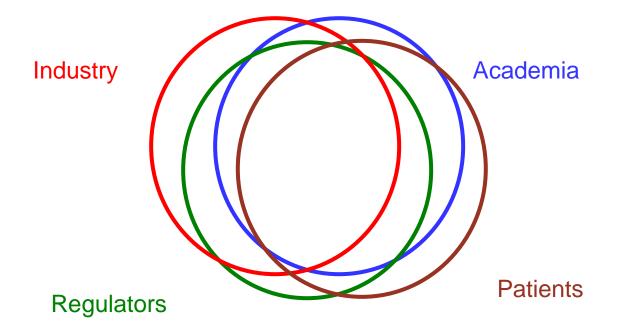
 What is the best tool for evaluation of effectiveness of risk minimisation activities in PML?

> How can we measure if our actions are effective?





Research Agendas





The way forward



The way forward

- Funding.
- Fostering collaboration.
- Alignment of research agendas:
 - consensus; and
 - Priorities.
- Communication aspects.



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Coming.....

Session 6 (collaboration), 7 (funding) and 8 (benefits for public health)



Thank you

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