

Considerations for Immunogenicity Risk Assessment of Biotherapeutics

Status Update

Joanna Grudzinska-Goebel

on behalf of the

EIP Immunogenicity Risk Assessment Working Group

EIP Open Symposium

April 27th, 2023



Disclaimer

This presentation represents the view of the EIP working group and is not necessarily reflective of the specific views of any member company.



Immunogenicity Risk Assessment Working Group Members

Team Leads:

Arno Kromminga – BioNTech

Joanna Grudzinska-Goebel – Bayer AG

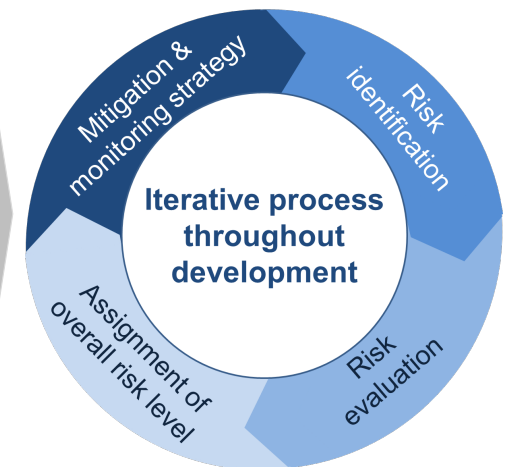
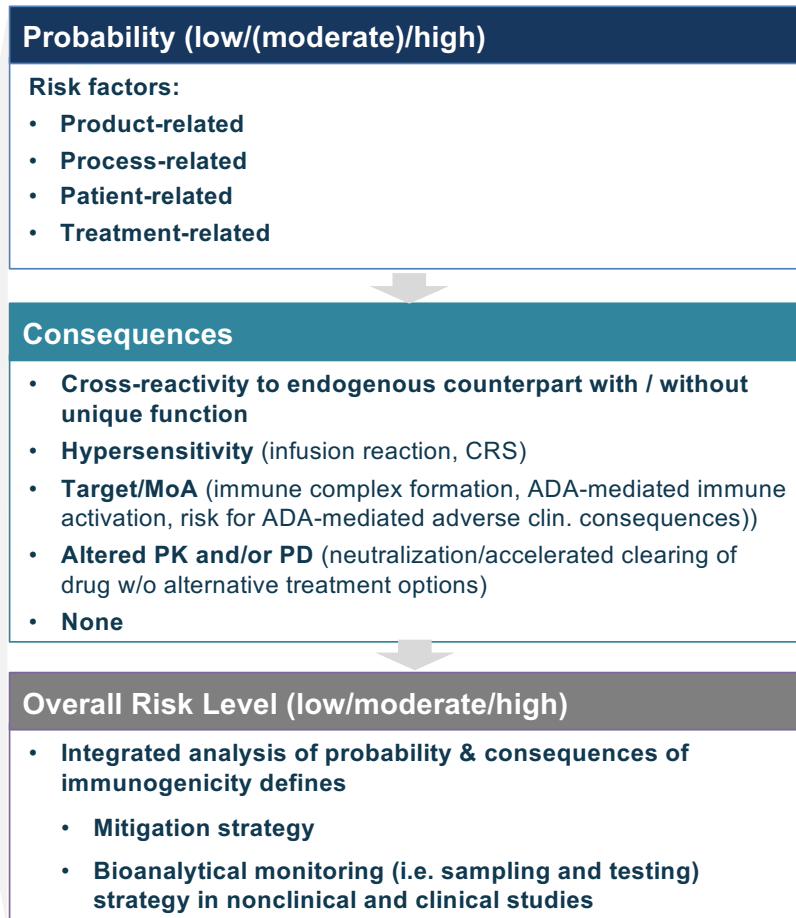
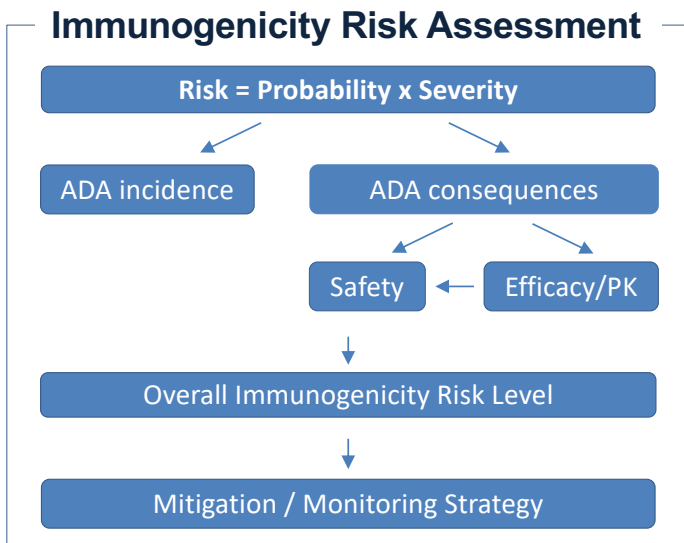
Veerle Snoeck – UCB

Team members:

- Andrea Kiessling – Novartis
- Åsa Marknell DeWitt – Thermofisher
- Bernd Potthoff - UCB
- Boris Gorovits - Sana
- Celine Marban-Doran – Roche
- Dan Mytch – Amgen
- Daniel Kramer – Sanofi
- Gregor Lotz – Roche
- Karin Benstein – Sanofi
- Karien Bloem, Sanquin
- Karin Weldingh– Novo Nordisk
- Kyra Cowan – Merck KGaA
- Linlin Luo – Merck & Co
- Mantas Malisauskas – Lundbeck
- Marcel van der Linden - Genmab
- Maria Jadhav – Novartis
- Marina Ichetovkin – Merck & Co
- Martin Ullmann - Fresenius-Kabi
- Melody Janssen – Scipotconsultancy
- Myrthe Rouwette - Byondis
- Sandra Ribes Miravet – Sandoz
- Sebastian Spindeldreher - iBiologix
- Stephanie Elm – Amgen
- Vibha Jawa – BMS

**Meeting schedule:
1h, every two weeks**

Integrated Approach for Immunogenicity Risk Assessment



Our Mission and Tasks

Provide harmonized framework and practical guidance for Immunogenicity Risk Assessment of Biotherapeutics



Exchange on IRA processes established at different companies



Provide literature overview on guidance available for IRA



Align on IRA assessment with different focus during development



Exchange on IRA process

How is the IRA process established and performed at different companies?

Which factors are considered in the risk assessment and which tools are used?

What is the focus of the overall risk assignment (safety / safety & efficacy)?

How is the overall risk level defined (low/moderate/high) – are we aligned?

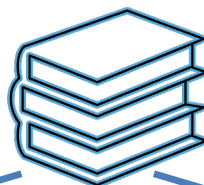
When are what mitigation actions initiated?

Which nonclinical/clinical bioanalytical strategies are employed for which biotherapeutic modality?

How is the risk evaluation connected to the monitoring (i.e. sampling and testing) strategy?

What are major learnings over past years (incl. health authority interactions)?

Literature overview



Guidance available for

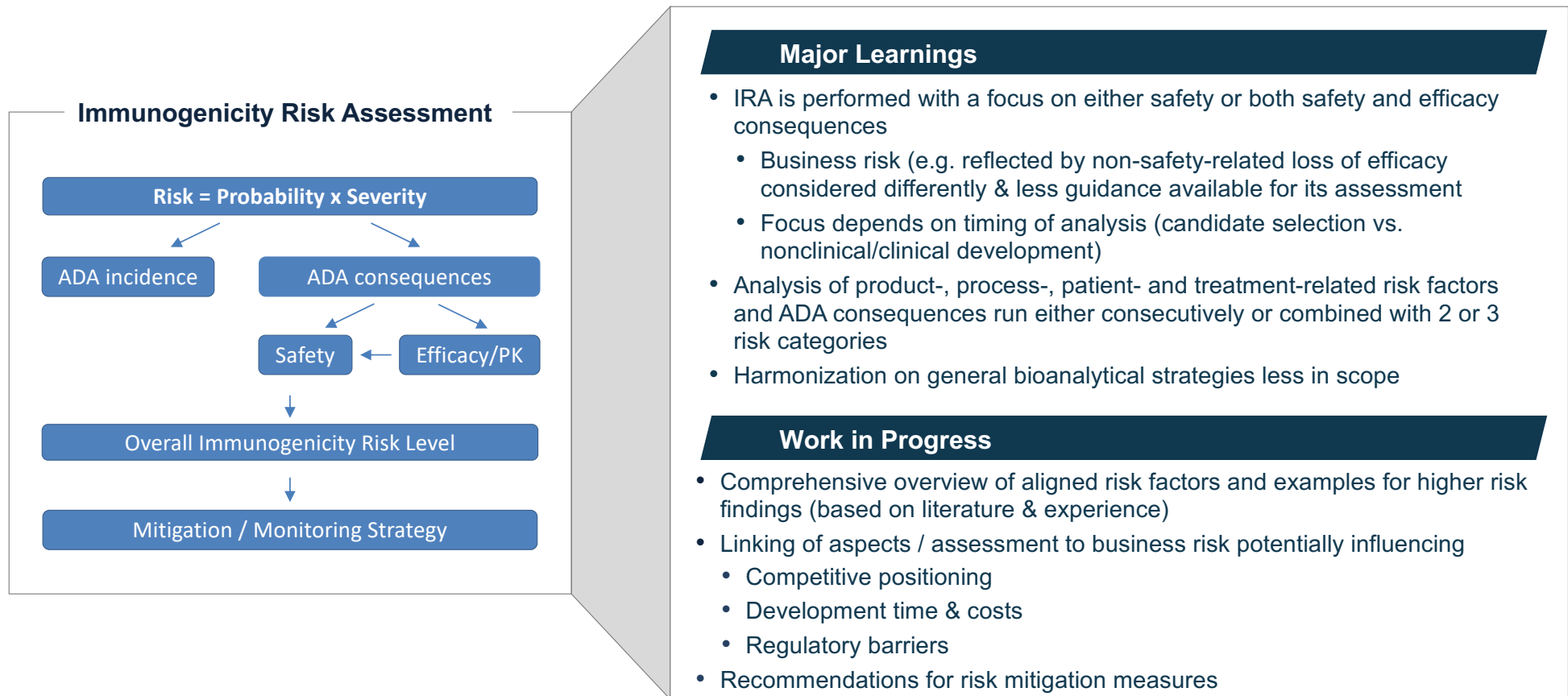
- IRA process in general vs. performed
 - early in development
 - at IND filing
 - assessment during late-stage clinical development and submission
- risk mitigation and bioanalytical monitoring

Case studies for

- risk factor evaluation with examples reflecting their impact
- low risk molecules where strong impact of immunogenicity on program success was observed
- high risk molecules with no impact of immunogenicity

Identify major guidances and gaps

Alignment on Immunogenicity Risk Assessment Process



Next Steps

Provide a harmonized framework and practical guidance for Immunogenicity Risk Assessment of Biotherapeutics

- **Continue exchange on IRA established at different companies**
- **Finalize literature search on IRA and case studies**
- **Emphasize differences in risk evaluation during life-cycle management**
- **Elaborate on business risk considerations incl. mitigation measures**
- **Align on overall risk categorization with respective examples**

Thank you

