

Breakout Session #5

Implementation & Operational aspects

Chairs: Olga Kholmanskikh (CTFG, FAMHP), Josse Thomas (BAREC)

Multi-stakeholder workshop

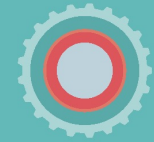
Accelerating Adoption of Complex Clinical Trials in Europe and beyond

5 - 6 OCTOBER 2021

Day 2
6 October
2021

Breakout session 5

Operation & Implementation



Multi-stakeholder
workshop
5 - 6 October 2021

Chairs:

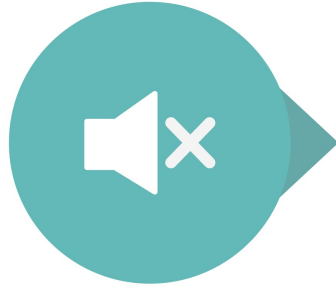
Olga Kholmanskikh (CTFG, FAMHP)

Josse R. Thomas (Ethics Committee, BE)

Complex innovative trial designs require much more upfront planning, anticipation, strong communication and flexible problem-solving approaches across multiple stakeholders. This session will discuss each of the steps: planning, implementation, execution and oversight of complex clinical to identify the most important challenges in the implementation of complex innovative clinical trials. Aspects such as collaboration vs. competition, use of common templates and governance will be discussed to elaborate best practices and recommendations.

House-keeping rules

(For active participants in the Zoom call)



- Mute your sound and video when not speaking



- Flag your intention to take the floor by raising your hand or by inputting your name into the Zoom-chat

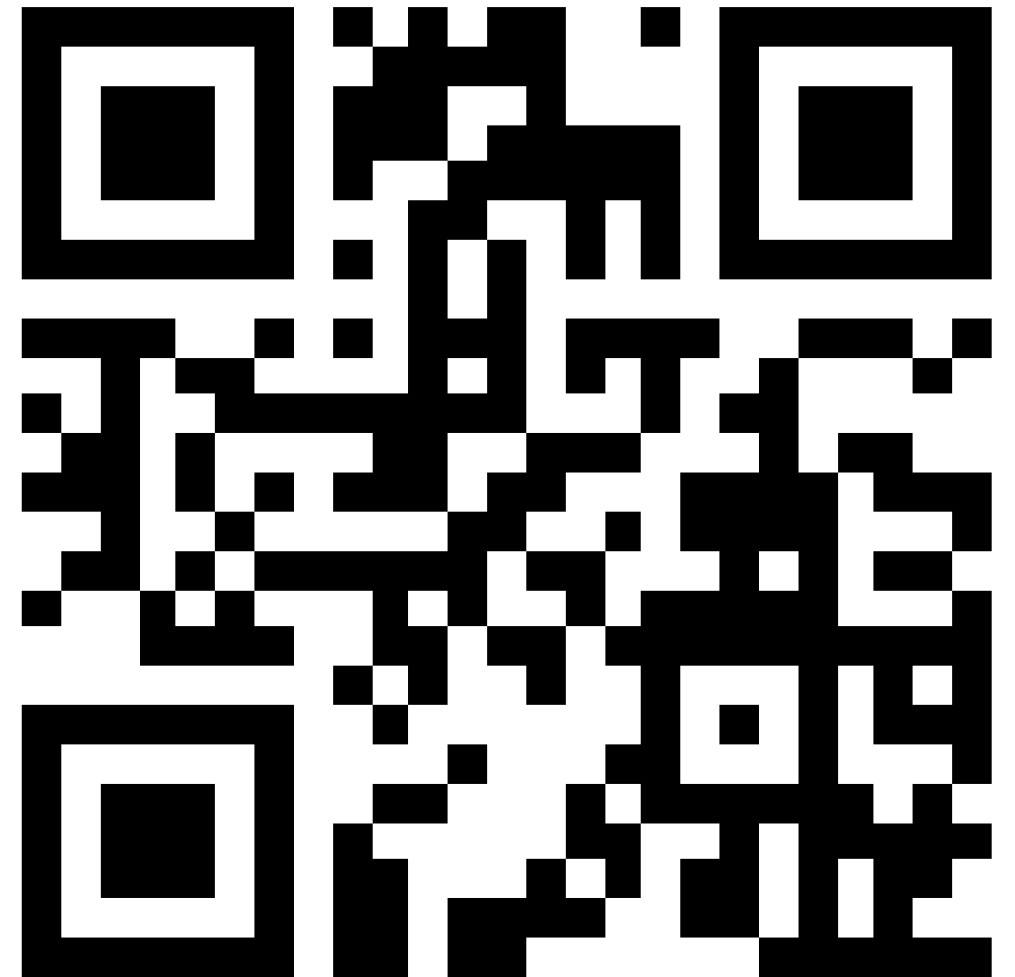


- Introduce yourself (name, company, role) when taking the floor

Join our Q&A and
online polls at

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Direct link to our Q&A:
<https://app.sli.do/event/htnou5aw>

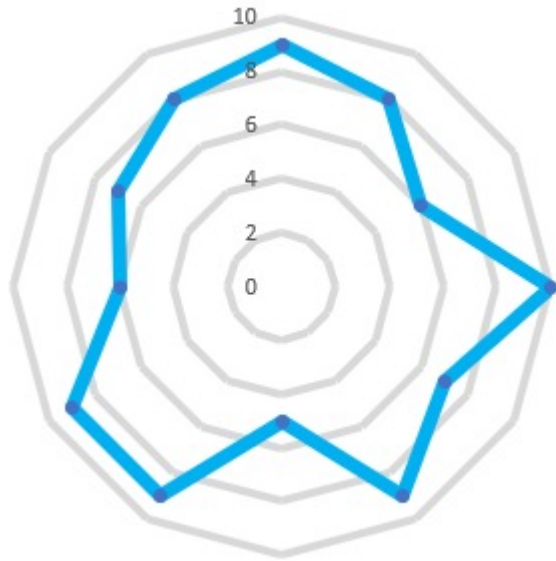


You can scan the QR-code with your mobile device
for direct access to the Q&A

Topics for discussion during this break-out session

1. Collaborative, competitive and mixed approaches for planning, conducting and reporting of CCTs
2. Practical aspects and solutions to transform challenges to opportunities
3. Best practices sharing: the way forward





Complexity in clinical trials

Potential sources/determinants of complexity

Population (vulnerability, clinical complexity, prevalence)

Treatment (medicinal product and its characteristics, administration, combinations, length of treatment phase)

Development status (FIH, different phases, exploratory, confirmatory)

Design elements and analysis (number of arms/cohorts/sub-protocols; fixed vs adaptive, randomisation, enrichment, operating characteristics)

Processes and procedures (informed consent, operational complexity)

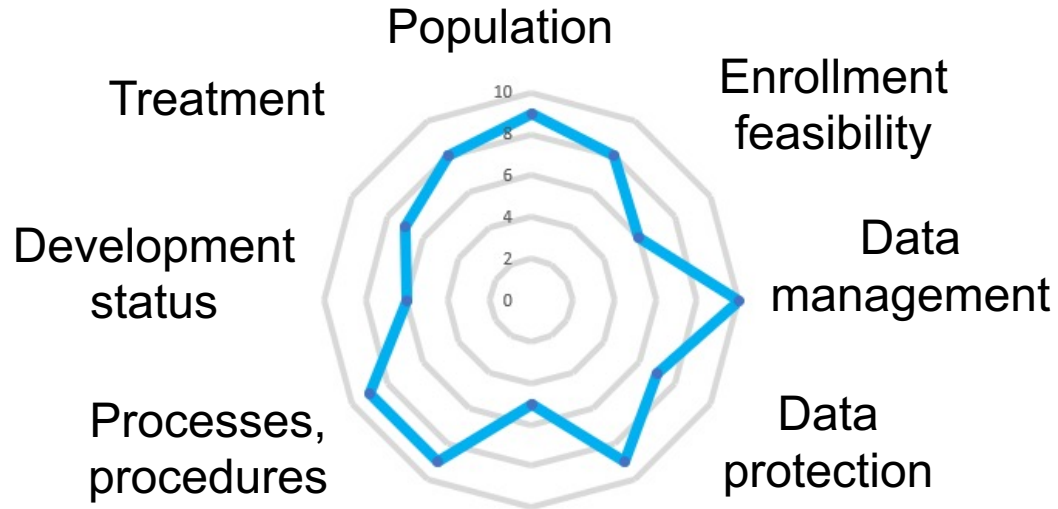
Data collection, protection, follow-up phase requirements etc.

Complexity in clinical trials

Combinatorial complexity



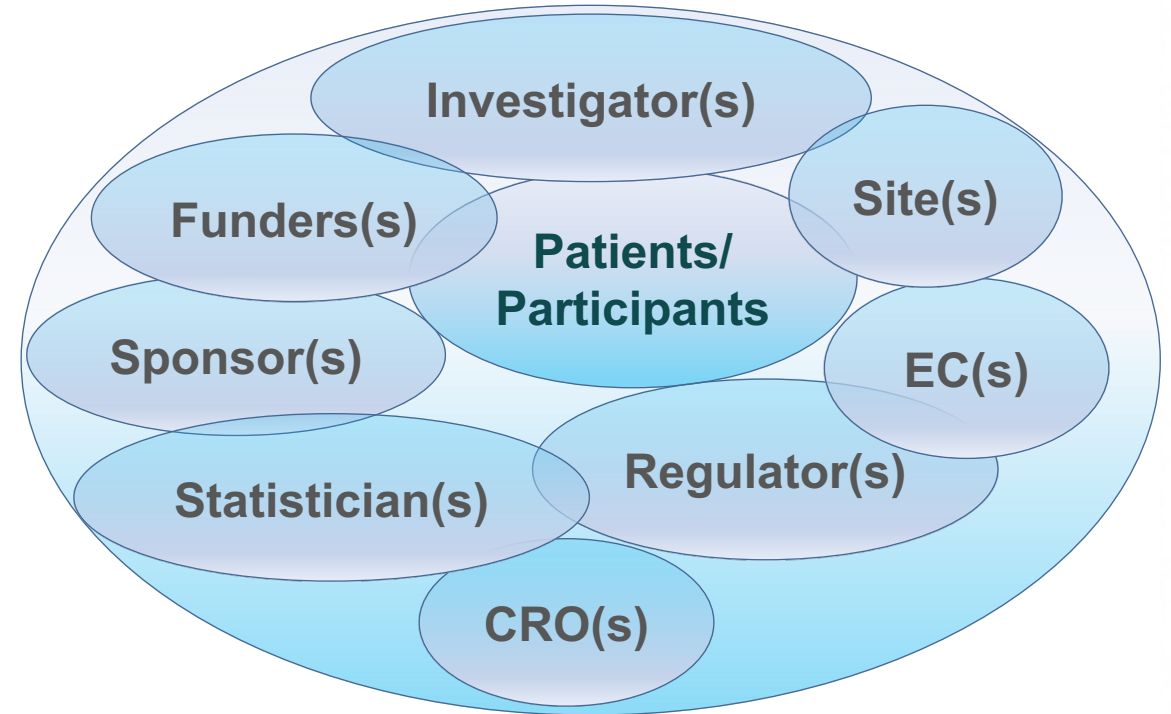
Operational complexity Inter-/multi-stakeholder relationships



Design and analysis

***One of the elements/features/methods
and/or combination thereof***

- Master protocol elements
(e.g. basket, umbrella, platform)
- Adaptive features
- Enrichment strategies
(+biomarkers / IVD medical devices)



1. Collaborative, competitive and mixed approaches for planning, conducting and reporting of CCTs



Collaborative vs competitive vs mixed approaches and operational consequences

Examples, working definitions

- **Collaborative approach**

- **One or several non-commercial sponsors** (e.g. academic centres, not-for-profit organisations, investigator networks, government-funded cooperative groups, patient organisations, etc.), pharma/biotech/medtech companies may offer medicinal products/IVD medical devices and/or funding
- **Consortium of commercial and/or non-commercial sponsors**, common funding

- **Competitive approach**

- **Individual commercial sponsors**, one-sponsor funding, similar CCTs within the same therapeutic area

- **Mixed approaches**

(e.g. in terms of funding within one complex clinical trial; change from competitive to collaborative approach within the same therapeutic area; collaborative competition: prioritisation within the same therapeutic area)



Examples from different therapeutic areas

Oncology +++

Adult: - 1 commercial sponsor/funder

(e.g. >1 IMPs/combo in > 1 trials in > 1 histology)

- 1 non-commercial sponsor, >1 funders

(e.g. 1 trial, >1 IMPs/combo in 1 histology)

Paediatric: 1 non-commercial sponsor, >1 funders

(e.g. >1 IMPs/combo, > 1 histology)

Neurology

- Alzheimer's disease (DIAN-TU)

- Amyotrophic lateral sclerosis (HEALEY ALS)

**Clinical trials ongoing and coming in other areas:
gastrointestinal diseases, endocrinology ...**

Infectious diseases

- COVID-19 (++)

- Tuberculosis
(PanACEA-TB)

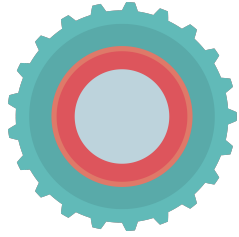
- Antibiotics targeting
resistant pathogens
(ADAPT)

-Ebola (PREVAILII)

- Severe acute
respiratory infection
(PREPARE/PRACTICE/
Study C)

**EU-PEARL
examples...**





Examples of collaborative, competitive or mixed approaches

Cecile Spiertz (EU-PEARL/J&J)

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EU-PEARL
EU PATIENT-CENTRIC
CLINICAL TRIAL PLATFORMS

SHAPING THE FUTURE OF CLINICAL TRIALS

We are transforming the future drug development
by creating a sustainable entity
available for industry and academia
to conduct platform trials in any disease area
codesigned by patients



This project has received funding from the Innovative Medicines Initiative 2 Joint Undertaking (JU) under grant agreement No 853966.

The JU receives support from the European Union's Horizon 2020 research and innovation programme and EFPIA and CHILDREN'S TUMOR FOUNDATION, GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT NON PROFIT ORGANISATION, SPRINGWORKS THERAPEUTICS INC.

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WHAT IS EU-PEARL?

Strategic alliance between the public and private sectors to:



by developing a common framework for platform clinical trials/Integrated Research Platforms (IRPs)





WHO IS INVOLVED



EUROPEAN UNIVERSITY HOSPITAL ALLIANCE (EUHA) HOSPITALS



OTHER HOSPITALS



UNIVERSITIES



PATIENT ORGANISATION



DATA, STATISTICS



REGULATORY



PROJECT MANAGEMENT



EUROPEAN RESEARCH INFRASTRUCTURES



BIOPHARMACEUTICAL COMPANIES / EFPIA / ASSOCIATED PARTNERS





INTEGRATED RESEARCH PLATFORMS

IRPs

An Integrated Research Platform is a novel clinical development concept which centers around a **master trial protocol**

It can accommodate multi-sourced interventions using the existing infrastructure of hospitals and federated patient data in design, planning and execution

An optimized regulatory pathway for these novel treatments has been established.





EU-PEARL WILL DELIVER

- 1 A trusted sustainable entity ready to setup and coordinate the operation of Integrated Research Platforms in any disease.
- 2 A Clinical Trial Platform Framework that can be used for any disease, plus four disease clinical trial platforms ready to operate at the end of the project
- 3 Four disease trial-ready clinical networks

Major Depressive Disorder
Tuberculosis
Non-Alcoholic Steatohepatitis (NASH)
Neurofibromatosis





COLLABORATION & SHARING

- ❖ EU-PEARL brings together patients, clinicians, industry, academia, researchers, and authorities to collaborate in shaping the future of clinical trials
- ❖ An open and trusted environment for knowledge sharing and science-driven debate amongst all stakeholders
- ❖ Advancing science together: this is the driving force behind EU-PEARL – interested and open to collect best practices, and drive discussions to create a general framework





DISEASE-AGNOSTIC WORK PACKAGES



WP1 IRP Governance, Quality, Sustainability

Information governance and Ethics
Certification of Implemented ICT platform components
Legal Framework
Interoperability and Data Quality
Project and Sustainability KPIs
Sustainability and Scale Up
Patient Engagement Platform

WP2 Scientific, Regulatory and Operational Methodology

Qualitative Methods and Statistical Design
Regulatory Aspects
Clinical Operational Best Practices (Master Protocol Template)

WP3 Clinical network and patient level data

Clinical Network
Patient Data Network
Deployment and Evaluation

WP8 Project Oversight, Project Management and Outreach

Project plan
Reporting and timely presentation of deliverables
Internal and external communications
Risk management
Alliances with other initiatives





DISEASE-SPECIFIC WORK PACKAGES



WP4 IRP for Major Depressive Disorder (MDD)

WP5 IRP for Tuberculosis (TB)

WP6 IRP for **Non-Alcoholic Steatohepatitis (NASH)**

WP7 IRP for NeuroFibromatosis (NF)

Define scientific challenges for each disease area

Design Master Protocol (disease specific)

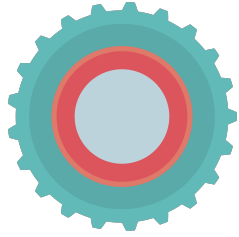
Establish key operational requirements for the implementation of specific IRPs

Endorsement of Master Protocols by regulatory and ethics

Build patients and clinical networks

Sustainability and dissemination





Examples of collaborative, competitive or mixed approaches

Sharon Love (MRC Clinical Trials Unit at UCL)

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MRC

Clinical
Trials
Unit

Smarter Studies
Global Impact
Better Health



UCL

Examples of collaborative, competitive and mixed approaches for planning, conducting and reporting of complex clinical trials

Sharon Love

MRC Clinical Trials Unit at UCL

Institute of Clinical Trials & Methodology

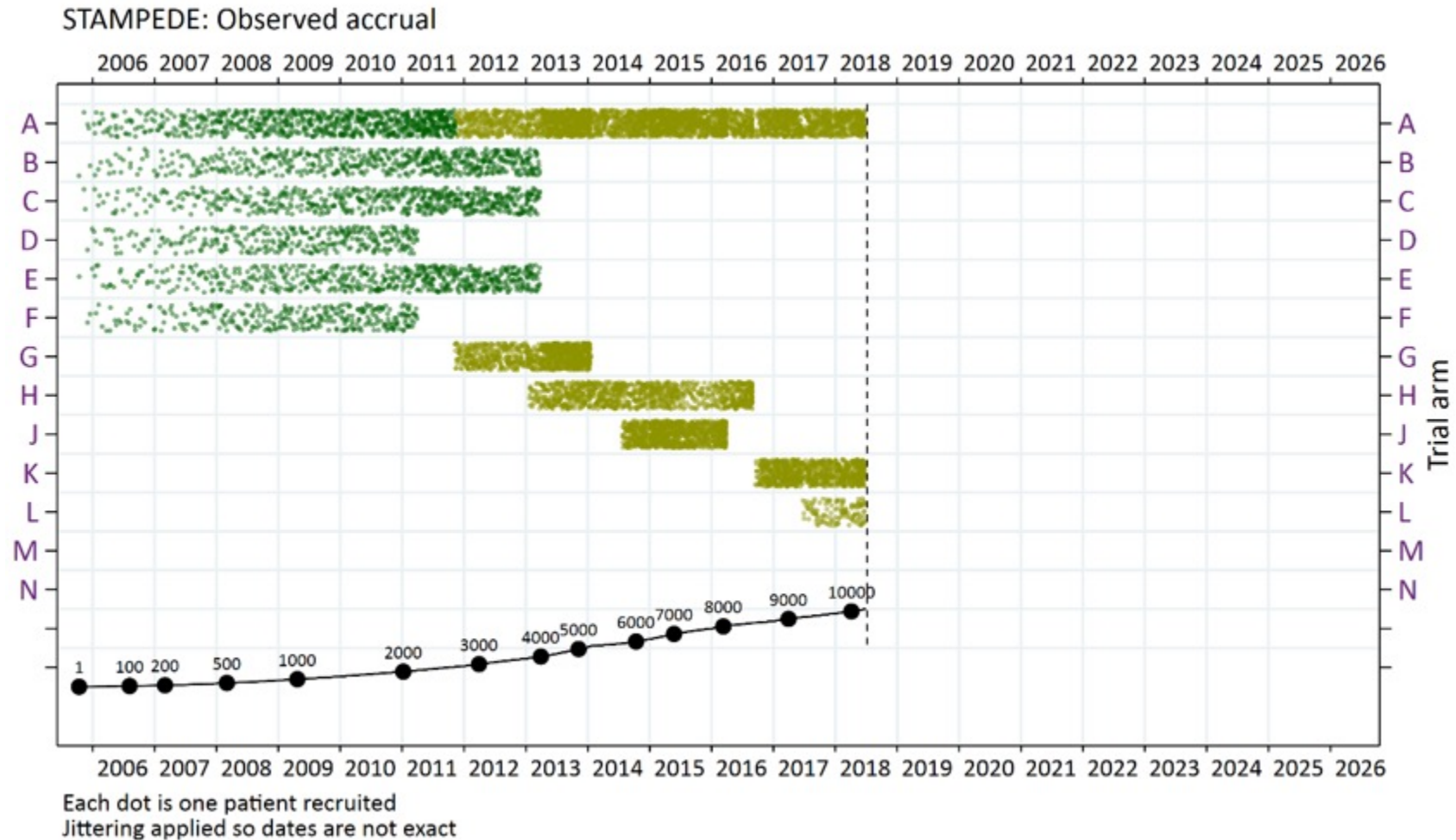
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ICTM

INSTITUTE OF CLINICAL TRIALS
AND METHODOLOGY

STAMPEDE



- 9 completed arms
- 4 currently open arms
- 1 sponsor – Oxford university
- >6 funders, all grant funders ie no commercial funders
- Licensed drugs supplied as usual for treatments in UK / some by the pharmaceutical company
- Unlicensed drugs supplied correctly labelled by the pharmaceutical company

Commercial and non-commercial sponsors

Organisation leading trial		
Non-commercial	55	89%
Commercial	7	11%

Acknowledgements

- Industry partners
- Dr Nurulamin Noor



1. Collaborative, competitive and mixed approaches for planning, conducting and reporting of CCTs

- In which therapeutic areas do you have experience with CCTs?
- What are advantages and disadvantages of different approaches?
- Are there priorities for specific areas/diseases/conditions?

Discussion



2. Practical aspects and solutions to transform challenges to opportunities




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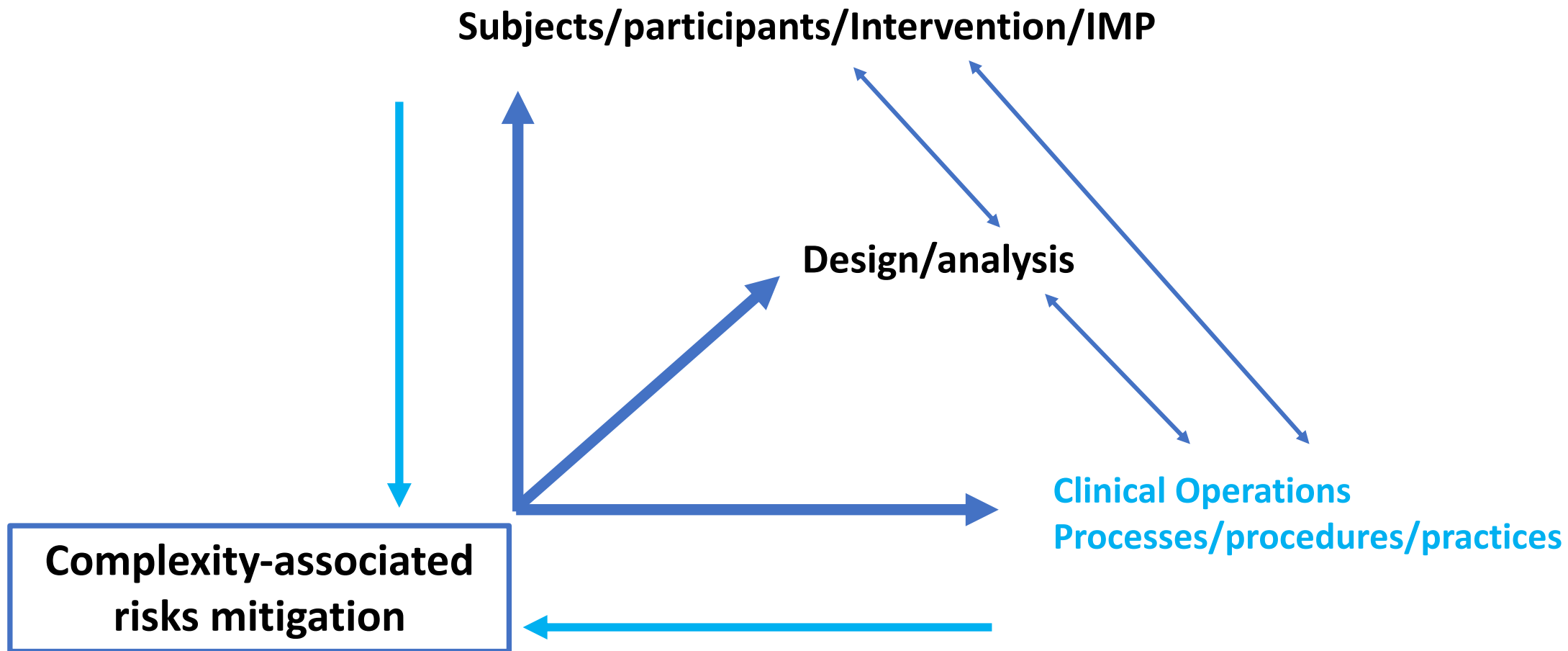


efpia
European Federation of Pharmaceutical
Industries and Associations

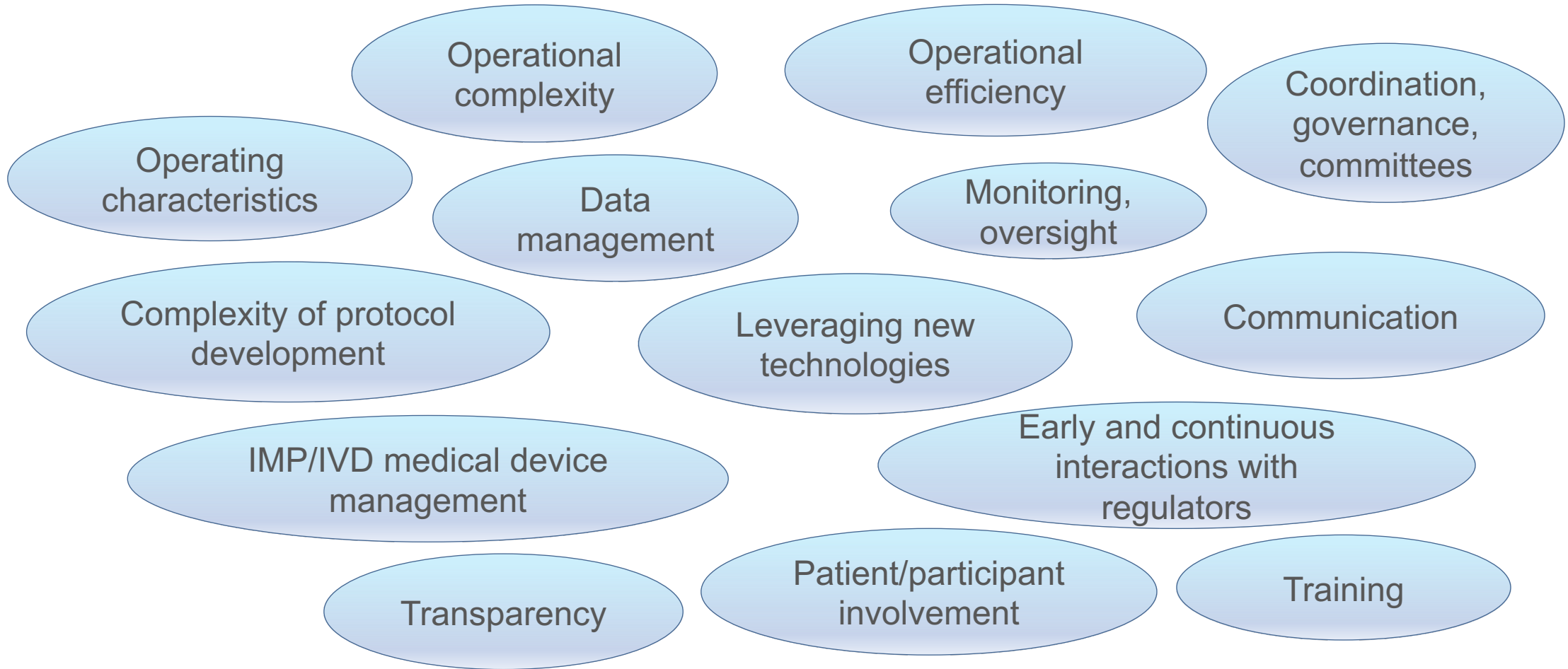


PPD

 Norwegian Medicines Agency

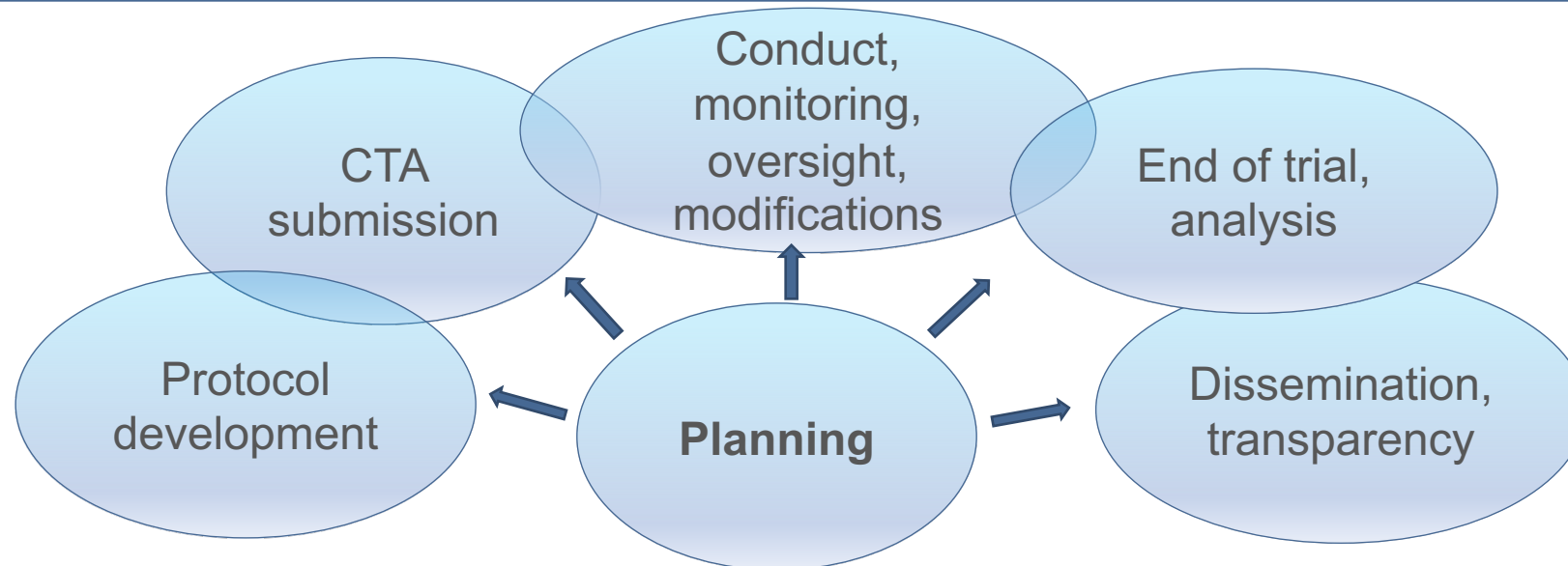


Challenges ↔ Opportunities



CTFG key recommendations for initiation and conduct of complex clinical trials (2019)

Clearly describe and justify design
Maintain scientific integrity
Ensure quality of trial conduct and optimise clinical feasibility
Ensure safety of trial subjects
Maintain data integrity
Reassess benefit-risk balance at critical steps throughout clinical trial
Validate companion diagnostics
Consider data transparency



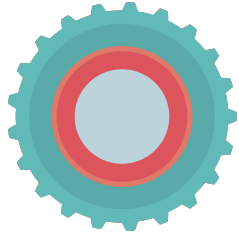
2. Practical aspects and solutions to transform challenges to opportunities

- What to think about during planning, conducting and reporting?



Experience from
MRC Clinical Trials Unit at UCL





What to think about during planning, conduct and reporting of CCT

Sharon Love (MRC Clinical Trials Unit at UCL)

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What to think about during planning, conduct and reporting of CCT

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Institute of Clinical Trials & Methodology

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Planning

- Chief investigator responsibilities
- Simultaneous vs sequential

Conduct

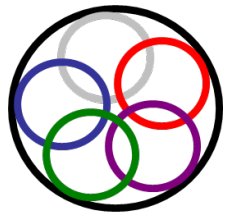
- Communication
- Change of the standard of care
- Staffing

Reporting

- Telling participants about their arm or all arms
- When to upload to EudraCT

Acknowledgements

- STAMPEDE and FOCUS4 Trial Management Group and Teams
- Sponsor: MRC and UCL
- Funders
 - CRUK
 - MRC/NIHR EME Programme
- Industry partners
- Registered CTU running platform trials in the UK

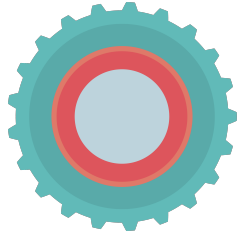


FOCUS4



The FOCUS4 Trial Programme is jointly funded by the MRC-NIHR Efficacy and Mechanism Evaluation Programme (11/100/50) and Cancer Research UK (A13363).

MRC CTU at UCL



Practical aspects and solutions to transform challenges to opportunities

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Deployment and Evaluation



eatris



PHARMACEUTICAL COMPANIES OF Johnson & Johnson



PHARMACEUTICAL COMPANIES OF Johnson & Johnson



PHARMACEUTICAL COMPANIES OF Johnson & Johnson



OVERVIEW ON PROGRESS Disease-agnostic IRP framework



Glossary with terminology & trial scenario's

1st Stakeholder Workshop:

Regulatory & Ethics, Multiplicity, Patient engagement

Federated Patient Data Network requirements

Provisional generic Master Protocol suite of Templates

now



Nov 2019

Kick off Patient Advisory Group

Self assessment questionnaire for site selection to create a clinical network

Research on legal concepts:

1. Sponsorship
2. IP and Data sharing
3. Statutory Liability
4. Clinical Trial Agreements

First version Clinical Operations Best Practice Tool



SET OF PROVISIONAL GENERIC PLATFORM TRIAL TEMPLATES

- I. Provisional Master Protocol Template
 -
 - II. Provisional Intervention Specific Appendix (ISA)
 -
 - III. Provisional Statistical Analysis Plan Template
 -
- Based on  Common Protocol Template V8 (2020)
- Based on  Statistical Analysis Plan V3 (2020)



* Based on TransCelerate Common Protocol Template V8, copyright TransCelerate Biopharma Inc. 2020 – 2021. All rights reserved.

^ Based on TransCelerate Statistical Analysis Plan V3, copyright TransCelerate Biopharma Inc. 2020 – 2021. All rights reserved.



OTHER DOCUMENTS THAT SUPPORT PLATFORM TRIAL TEMPLATES

- Clinical Operations Checklist (Study design, setup, execution, and analysis)

- Structured Cover Letter (Used for tracking changes through amendments to Master Protocol and individual Intervention Specific Appendices (ISA's))





DEVELOPMENT PROCESS OF THE GENERIC TEMPLATES



Confidential provisional templates

2020



May

2021

2022

Development of a set of provisional templates

Refinement of provisional templates leading to final templates

Final templates (2022-2023)

Starting point was the TransCelerate CPT

Cross-functional experts provided input

Review rounds within EU-PEARL and with Associated Collaborator

EU-PEARL disease teams assess templates

Refinement based on feedback from disease teams and experts within EU-PEARL

Input from EU-PEARL's Patient Advisory Group

Seek opportunities to collect external feedback



Final IMI submission and publicly available



CONTACTS IN WP2

Thank you!

We very much welcome follow up discussions

WP2 operational task team

Peter Mesenbrink (Novartis); Madhavi Gidh-Jain (Sanofi); Kathryn Hersh (Janssen); Franz König (MUW); Tom Parke (Berry); Clelia Di Serio, Paola Rancoita (USR); Olga Sánchez-Maroto (VHIR); Burç Aydin, Christine Kubiak (ECRIN); Edwin van de Ketterij (EATRIS); Cecile Spiertz, Tobias Mielke, Heidi De Smedt, Sal Morello, Eva-Maria Didden, Tom Reijns, Ingela Larsson (Janssen); Ekkehard Glimm, Sabina Hernandez Penna, Fabienne Baffert; Ian Carbarns (Novartis); Yingwen Dong (Sanofi)





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Project dates 1 November 2019 –30 April 2023

Project Coordinator Joan Genescà
(Vall d'Hebron University Hospital, Vall d'Hebron Research Institute (VHIR))

Project Leader Ann Van Dessel
(Janssen Pharmaceutica)

Contributions EFPIA contribution: 14.2 MM €
IMI2 JU funding: 12 MM €
Grant Agreement number: 853966

IMI2 Project Fact sheet: www.imi.europa.eu/projects-results/project-factsheets/eu-pearl

Website www.eu-pearl.eu

Questions? info@eu-pearl.eu

Twitter [@imi_eupearl](https://twitter.com/imi_eupearl)

LinkedIn www.linkedin.com/company/imi-eu-pearl

2. Practical aspects and solutions to transform challenges to opportunities

- What to think about during planning, conducting and reporting?
- What could be recommendations for an ideal governance structure?
- How to ensure a balance between transparency and integrity?

Discussion



Introduction to the discussion

- Some **challenges** are specific for CCTs and/or the operational approach
Others are just exacerbations of known issues due to the sheer complexity and scale
- **Solutions/Recommendations** should be fit-for-purpose, modular, and flexible



Challenges concerning trial planning

- Study design: e.g. study type (single vs master + sub-protocols), adaptations
- Regulatory: e.g. scientific advice, CTA (initial + each SM)
- Operational approach: e.g. collaborative, competitive, mixed
- Sponsorship/funding: e.g. commercial, non-commercial, mixed
- Patient involvement: e.g. design, study docs
- Study materials: e.g. documents, supplies, database, website
- Site selection/investigator involvement: e.g. capacity, experience
- Service providers: e.g. needs, selection, collaboration
- Oversight bodies: e.g. trial mgt group, SteerCom, (i)DMC, safety mgt
- Resources: e.g. numbers (flexible, scalable), training



Recommendations concerning trial planning

Careful planning is key to success

*Very important initially,
but also with each substantial modification*

- First and foremost: start early,
and don't underestimate the challenges
- Interact early with regulators and ECs
- Properly involve all stakeholders
- Pay attention to details in the contracts
- Don't underestimate resource needs
Foresee flexibility and scalability
- ...



Challenges during trial conduct

- **Data management issues:** e.g.
 - CRF and DB updates: applicable to all arms or arm-specific
 - DB growth: performance issues, DB split
- **Trial management issues:** e.g.
 - Finding additional funding, gaining additional approvals
 - Fluid implementation at centres
 - New safety issues
- **Human resources issues:** e.g.
 - Added complexity > added resources
 - Multiple overlapping tasks > priority setting
 - Attn. to increased workload and stress
- **Applying Substantial Modifications:**
 - e.g. adding or closing arms/comparisons, adapting the control arm or the SOC

...



Recommendations concerning trial conduct

- Start small and scale up as needed

You're in for a long ride

- Regularly re-estimate resource needs (systems and staff)
- Prioritise competing and concurrent tasks
- Assure continuity of staff and oversight body members
- Pay attention to workload, stress and motivation of staff



Challenges and recommendations for trial reporting

(Agencies, ECs, participants, investigators, public at large)

- **Main challenges:**
 - Timing of the communications
 - Arm-specific vs overall results
- **Recommendations:**
 - Specific regulatory guidelines needed
 - Foresee modularity and flexibility
 - Leave some choice to participants



Challenges and recommendations for trial oversight (Trial Management Group, (i)Steering Committee, (i)DMC)

- **Challenges:**

- Manage multiple arms/comparisons
- Long trials
- Independency

- **Recommendations:**

- Install arm-specific expert subgroups
- Assure continuity of membership
- Guarantee independence
(independent DMC for all CCTs?)



3. Best practices sharing: the way forward

- Is there a need to share best practices within and among stakeholders?
- Are initiatives like EU-PEARL helpful?
- What to do next?



Conclusions



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efpia

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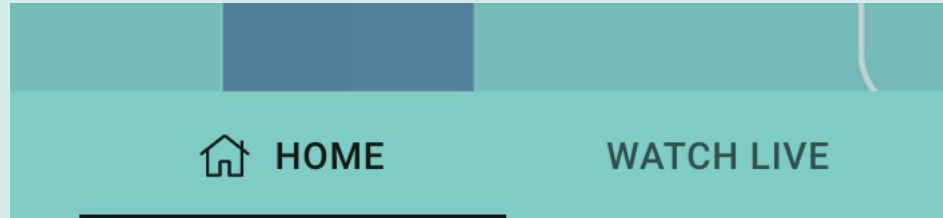


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As an active participant

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