

Platform trials in a confirmatory
regulatory setting – generating thoughts
and
directions

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Disclaimer

- What follows is not the position of the FAGG –AFMPS the PEI nor the EMA.
- It is solely intended as a basis for reflection on ethics, clinical trials and decisions.

Causality

Causality

Probability Experiment

Randomized Clinical Trials (RCT's) with an *internal concurrent control* arm are considered the standard in trial design where *appropriate and feasible*.

Clinical trials: Two aims!!!

Robust **decision making** and **precise estimation**

- Complex Designs
- Artificial Intelligence (AI)
- Real World Data (RWD)

How to move forward?

Two aims!!!

Robust **decision making** and **precise estimation**

- ICH E9
- CTR
- ...

Clinical Trial?

What is a complex (clinical) trial?

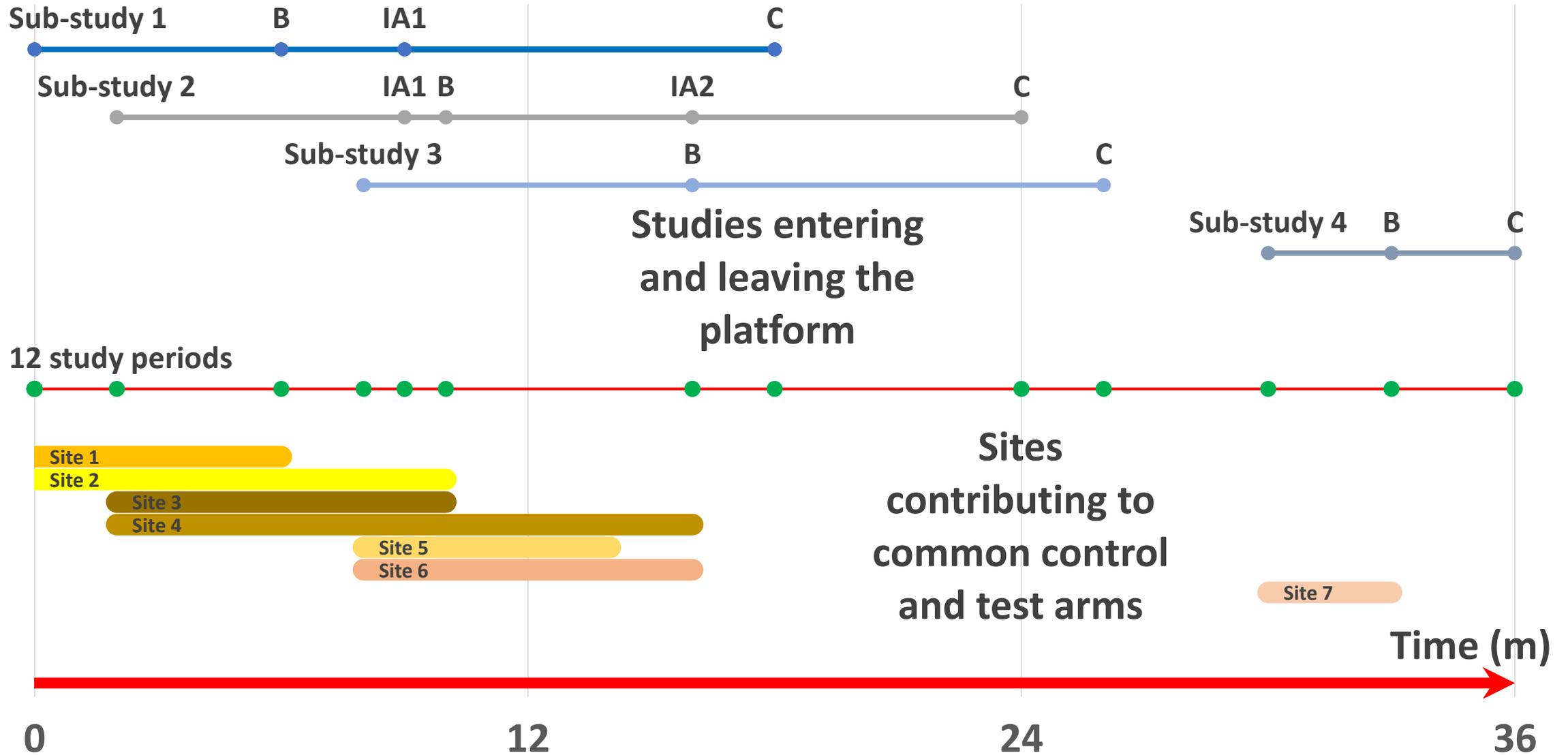
- CTR -> Clinical Trial
- Complex trial???
- Platform trial???

Covid-19

Why the Covid-19 experience is not a
good reference - template for
confirmatory platform trial design

Platform Trials

A platform example



Platform Trial – Some Examples From Practice Set the Stage

Independence.

Independence?

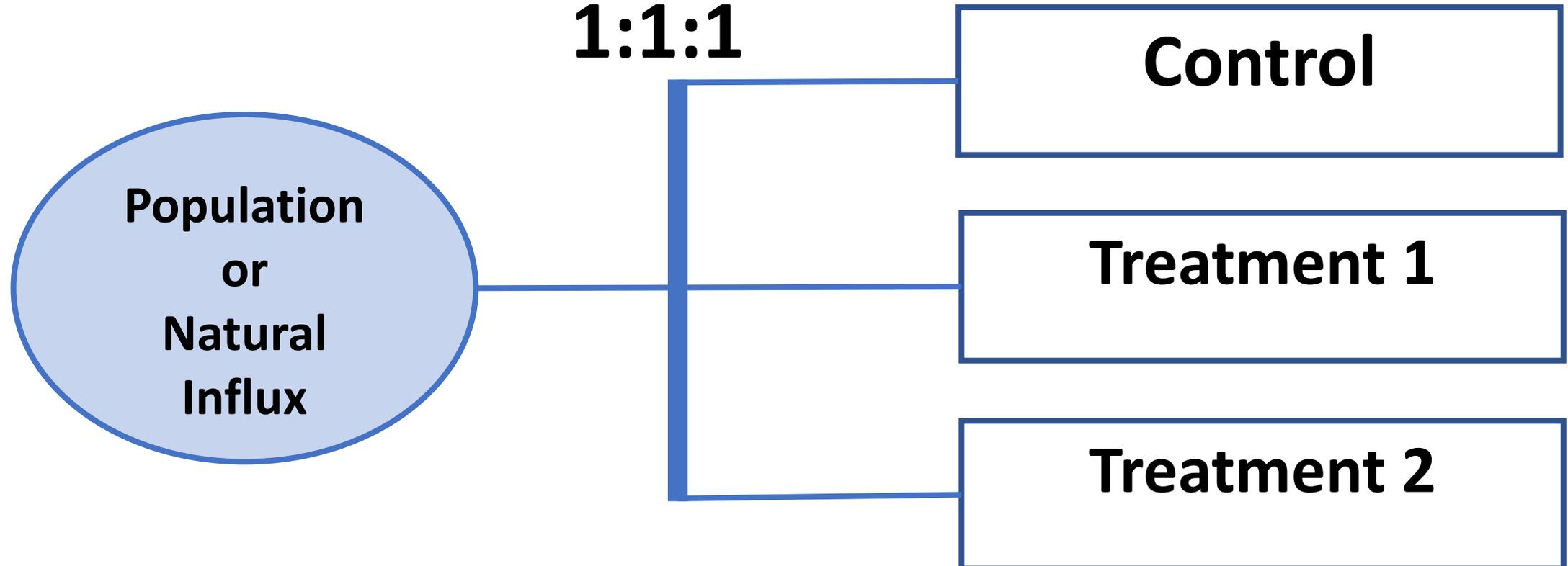
Independence!

« Reculer pour mieux sauter »

One indication – a proposed trial

Randomization

1:1:1

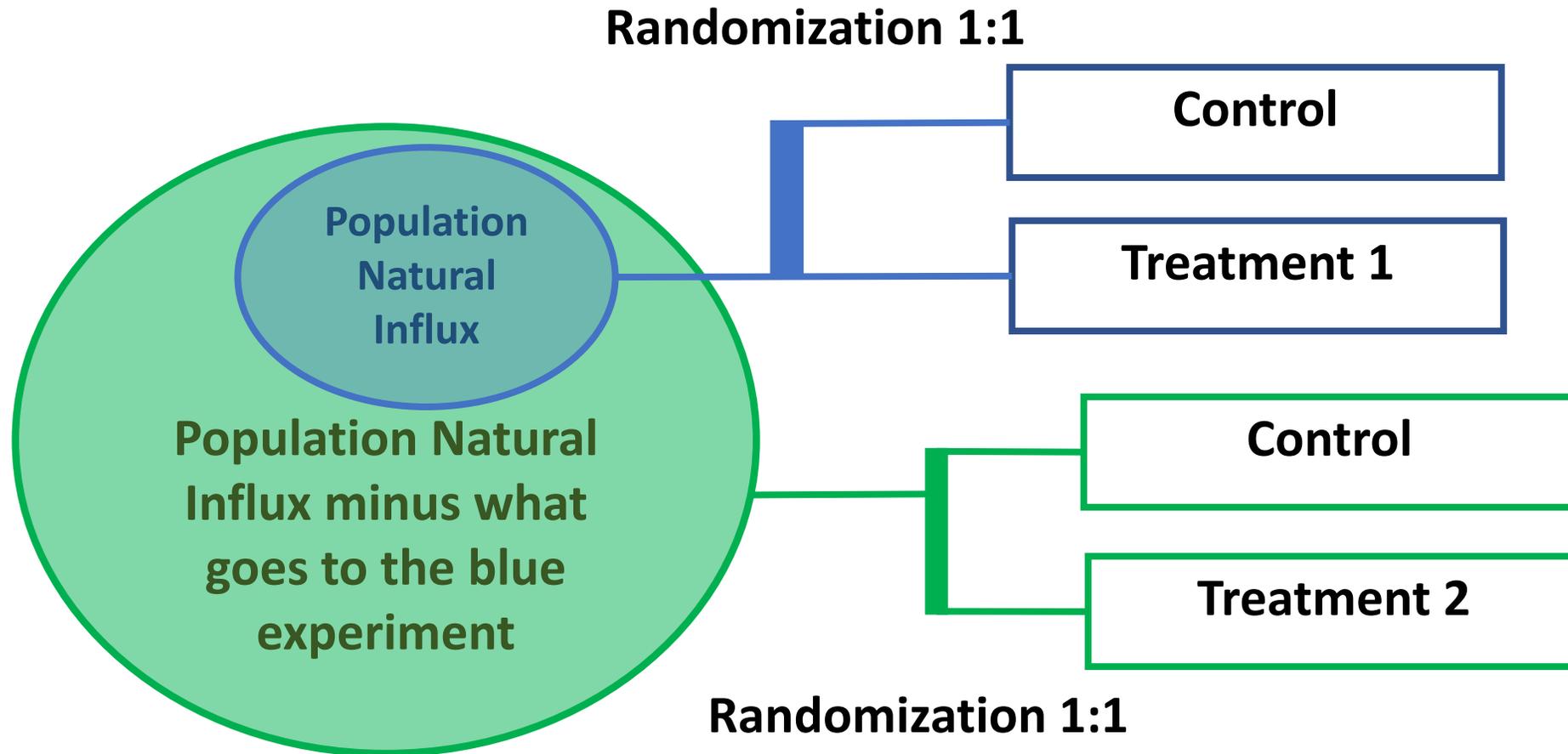


The Type I_r
is controlled at $\alpha_r = 0.05$

Are there remaining problems?

Dependency a problem?

Subpopulation – a proposed trial



Probabilistic Independence.

Independent modes of action.

Different sponsors.

Bias - Corrections

How linear can a human be!

Adapted decision making?
Pragmatic platform trials?

Data scientists

- Bio-statisticians
- Data scientist
- AI community

Are all data scientists.

EU-PEARL

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What is EU-PEARL?

EU-PEARL is an IMI funded public-private partnership and a strategic alliance between the public and private sectors to:

Transform
the way
clinical trials
are conducted

Improve and
accelerate
drug development
processes

Place the patient
at the center
(co-designed
by patients)

by developing a common framework for platform clinical trials and integrated research platforms (IRPs)

NB:
Funding for EU-PEARL
ended in April 2023

Who was involved?

EUROPEAN UNIVERSITY HOSPITAL ALLIANCE (EUHA) HOSPITALS



OTHER HOSPITALS



UNIVERSITIES



PATIENT ORGANISATION



DATA, STATISTICS



REGULATORY / HTA



PROJECT MANAGEMENT



EUROPEAN RESEARCH INFRASTRUCTURES



BIOPHARMACEUTICAL COMPANIES / EFPIA / ASSOCIATED PARTNERS



EU-PEARL's structure

DISEASE-AGNOSTIC WORK PACKAGES

WP1 IRP Governance,
Quality, Sustainability

WP2 Scientific, Regulatory
and Operational Methodology

WP3 Clinical network
and patient level data

WP8 Project Oversight, Project
Management and Outreach

Qualitative Methods
and Statistical Design

Regulatory Aspects

Clinical Operational Best Practices
(Master Protocol Template)

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 operational requirements for the implementation of specific IRPs

Endorsement of Master Protocols by regulatory and ethics

NB:
Trials were not executed
within EU-PEARL

Further resources

The work done at EU-PEARL contributed to the development and conformed the EU-PEARL Consortium's best practices for clinical trial operations and patient treatments.



**TOOLS AND
TEMPLATES
FOR PT OPERATIONS**



**HEALTH DATA
&
SITE NETWORKS**



**GENERAL
RESOURCES**



PUBLICATIONS

Generic Tools and Resources

View and employ the innovative and **general methodology** and **toolbox** developed by the EU-PEARL Consortium for collaborative platform trials. Take advantage of the **real-world data management, protection and privacy** guidelines and templates to facilitate the design and conduct of this type of trials.

most to patients are embedded in the trial design.

Source: <https://eu-pearl.eu/tools/>

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EU-PEARL community



Be part of the EU-PEARL Community!

Experts and organisations that participated in EU-PEARL have come together in a vibrant community of practice. They have the critical knowledge, services and resources around IRPs to ensure that adaptive platform trials can thrive in future.

Other organisations active in innovative clinical research and interested in advancing platform trials are welcome to become part of the EU-PEARL Community. Please feel in the form below and let us know a little bit more about your interest in EU-PEARL.

Name

Surname

Source: <https://eu-pearl.eu/community-of-practice/>