



University  
of Basel

# Causal inference in RCTs

What do observational and interventional studies have in common?

Giusi Moffa, on behalf of BBS and the organizing committee

September 7th, 2020

# The topic of today's BBS webinar

## Basel Biometric Section



*RCTs meeting causal inference: principal stratum strategy and beyond*

Exploring the place (if any) that methods for causal inference typical of the observational literature may have in randomised controlled trials for pharmaceutical drug development, focusing on

- time-varying treatments
- instrumental variables
- principal stratification strategies

Slides and recordings will be available on the [BBS webpage](#)  
(*Subject to speakers' approval*)

# Some of the driving questions

## Causal inference and estimands: bridging complimentary methodologies



1. How do causal inference researchers see the ICH E9 addendum?
2. How does the estimand framework as put forward in the addendum relate to the target trial framework?
  - Is it a convergence to a common ground from the “opposite” ends of observational and interventional worlds?
3. What are specific examples where causal inference methods can support design, analysis, or interpretation of drug trials?

# Thanks

The organising committee (*Björn Bornkamp, Giusi Moffa and Kaspar Rufibach*) wish to thank the

Speakers: *Vanessa Didelez, Jack Bowden, Kelly van Lancker, Dominik Heinzmann, Aiesha Zia*

Discussants: *Fabrizia Mealli and Andrew Thomson*

Last, but not least: *All the participants*



Not to miss: upcoming event in the BBS estimand series

[BBS webinar on Estimands in Neuroscience](#)

28th September 2020, 13.30-16.00



Companion slides

# A BBS estimand series - what's coming next?

Concluding the 2nd event in a BBS series dedicated to estimands

## Up-coming

[BBS seminar on Clinical Neuroscience](#)

28th September 2020, 13.30-16.00

## (Now) Past events

[RCTs meeting causal inference: principal stratum strategy and beyond](#)

Today's event, September 7th, 2020

[Estimands addendum is final: Anything new for oncology?](#)

Held on June 29th, 2020