

Inserm Workshop 282

Bonnes pratiques et avancées récentes en analyses causales
Best practices and recent advances in causal analyses

5-7 mai 2025 / May 5-7, 2025 ■ **Bordeaux, France**

Lundi 5 mai 2025 ■ **Monday May, 5th 2025**

15:30 - 16:00	Reception of participants
16:00 - 16:15	Welcome and presentation by the organizers
SESSION I	INTRODUCTION TO KEY CONCEPTS IN CAUSAL INFERENCE
16:15 - 17:00	Formulating causal questions Els Goetghebeur (Ghent University, Ghent, Belgium)
17:00 - 17:30	Coffee break
17:30 - 18:15	Directed Acyclic Graphs Karen Leffondré (INSERM U1219, Bordeaux, France)
18:15 - 19:00	Conceptual and methodological strategies to study sex and gender effects in health Hélène Colineaux (INSERM U1295, Toulouse, France)
19:30	Dinner

Mardi 6 mai 2025 ■ **Tuesday May, 6th 2025**

06:30 - 08:30	Breakfast
SESSION II	ESTIMANDS AND ESTIMATORS
08:30 - 09:15	Introduction to the causal effect of a simple static intervention: potential outcomes, g-formula, causal assumptions for identifiability Benoît Lepage (INSERM U1295, Toulouse, France)
09:15 - 10:00	Translating questions to estimands and dealing with intercurrent events Elise Dumas (EPFL, Lausanne, Suisse)
10:00 - 10:30	Coffee break
10:30 - 11:15	Statistical tools for estimation: propensity scores, g-computation, doubly robust methods, marginal structural models Arthur Chatton (Université de Montréal, Canada)
11:15 - 12:00	Mediation analyses Linda Valeri (Columbia University, USA)
12:00 - 14:00	Lunch

SESSION III	CAUSAL INFERENCE WITH LONGITUDINAL DATA
14:00 - 14:45	Methods for dealing with time-dependent confounding Raphael Porcher (CRESS, Paris, France)
14:45 - 15:30	Time to event outcomes and dealing with competing events Jessica Young (Harvard University, Boston, USA)
15:30 - 16:00	Coffee Break
16:00 - 16:45	Dynamic propensity scores matching to evaluate the impact of time-dependent exposures Yohann Foucher (CIC 1402, Poitiers, France)
16:45 - 17:30	Emulation of clinical trials in the presence of immortal bias Clémence Leyrat (LSHTM, London, United Kingdom)
17:30 - 18:15	Causal mediation with intermediate and final outcomes measured repeatedly over time Cécile Proust-Lima (INSERM U1219, Bordeaux, France)
19:30 - 20:15	Cocktail
20:15	Dinner

Mercredi 7 mai 2025 ■ **Wednesday May, 7th 2025**

06:30 - 08:30	Breakfast
SESSION IV	CAUSAL INFERENCE IN HIGH DIMENSIONAL SETTING
08:30 - 09:15	Challenges and solutions in high-dimensional settings Stijn Vansteelandt (Ghent University, Belgium)
09:15 - 10:00	Covariate selection strategies Vanessa Didelez (BIPS institute, Leibniz/Bremen, Germany)
10:00 - 10:30	Coffee Break
10:30 - 11:15	Healthcare databases analysis with targeted learning using lasso TBD
11:15 - 12:00	A statistical viewpoint on using marginal structural models (MSMs) for causal analysis Antoine Chambaz (MAP5, Paris, France)
12:00 - 14:00	Lunch
14:00	Departure