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## Avoiding Bias induced by Design and Analysis in Life History Cohort Studies

FRIAS Junior Researcher Conference

September 21-23, 2016

Freiburg Institute for Advanced Studies, Albertstr.19, Freiburg, Germany

<http://frias.uni-freiburg.de/abilityconference>

### Wednesday, 21 September 2016

13:00-15:00	R tutorial	Bendix Carstensen	Practice in analysis of multistate models using Lexis
15:00-15:30	Refreshments		
15:30-17:00	R tutorial	Thomas A. Gerds	Sensitivity analysis using lava simulation
18:00-18:15	Opening	Nadine Binder Martin Schumacher	Welcome In memoriam: Norman E. Breslow
18:15-19:30	Keynote Lecture	Jerry Lawless	Some Aspects of the Design and Analysis of Life History Studies
19:30-21:00	Welcome reception		

### Thursday, 22 September 2016

#### Session 1: Bias avoidable by appropriate analysis (Chair: Martin Wolkewitz)

9:00-9:45	Invited Talk	James A. Hanley	Immortal Time Blunders: history, identification, severity
9:45-10:30	Invited Talk	Michael Hoffmeister	Late entry and immortal time bias in cancer patient cohorts - implications for calculations of survival probabilities
10:30-11:00	Refreshments		
11:00-11:25	Talk	Lina Jansen	Beta blockers and cancer prognosis - The role of immortal time bias: A systematic review and meta-analysis
11:25-11:50	Talk	Bénédicte Delcoigne	Absolute risk prediction using nested case-control data
11:50-12:15	Talk	Bendix Carstensen	Practical aspects of prediction in multistate models
12:15-12:30	Discussion		
12:30-13:30	Lunch		

#### Session 2: Bias from missing covariate measurements (Chair: Costanza Pizzi)

13:30-14:15	Invited Talk	Thomas A. Gerds	Missing values in cardiac arrest studies
14:15-15:00	Invited Talk	Christian Torp-Pedersen	Missing values in cardiac arrest studies (cont.)
15:00-15:30	Refreshments		
15:30-15:55	Talk	Kirsten Mehlig	Cardio-protection by alcohol: pro- versus retrospective analyses
15:55-16:20	Talk	Edwin Amalraj Raja	Using multiple imputation for missing smoking data to avoid bias in an intergenerational analysis
16:20-16:45	Talk	Regina Stegherr	Analysing baseline covariates in studies with delayed entry using a joint model
16:45-17:10	Talk	Theodor Adrian Balan	Dynamic frailty models for recurrent events data
17:10-17:30	Discussion		
19:00	Dinner at Paradies (Table reserved for Invited speakers and Chairs)		

### Friday, 23 September 2016

#### Session 3: Bias due to design: Populations and sampling (Chair: James A. Hanley)

9:00-9:45	Invited Talk	Niels Keiding	Generalization from self-selected epidemiological studies
9:45-10:30	Invited Talk	Costanza Pizzi	On using non-representative samples in observational epidemiological studies
10:30-11:00	Refreshments		
11:00-11:25	Talk	André Moser	Statistical projection in the analysis of mortality using survey data: Improving weighted estimates by survival information
11:25-11:50	Talk	Odile Sauzet	Left truncation in cohorts of migrant populations due to return-migration to the country of origin
11:50-12:15	Talk	Martin Wolkewitz	Using prevalence studies for risk factor analyses of hospital-acquired infections
12:15-12:30	Discussion		
12:30-13:30	Lunch		

#### Session 4: Bias from lacking outcome ascertainment in follow-up (Chair: Jerry Lawless)

13:30-14:15	Invited Talk	Martin Schumacher	Impact and consequences of incomplete follow-up information in cohort studies
14:15-15:00	Invited Talk	Christian Schindler	Incidence analyses in the SAPALDIA cohort study: inverse probability weighting (present standard) vs. multi-state modeling (future standard?)
15:00-15:20	Refreshments		
15:20-15:45	Talk	David Bläsi	Incorporating loss to follow-up in multistate models for analyzing cohort study data with intermittent observation
15:45-16:10	Talk	Harriet Sommer	Illness-death regression based on interval censored time to illness
16:10-16:25	Discussion		
16:25-16:40	Closing comments and wrap-up		