**Agenda MI Comp Risks meeting ISCB**

Location: ISCB, Leuven (Belgium)

Attendees: Ed Bonneville (EB), Hein Putter (HP), Liesbeth de Wreede (LdW), Matthieu Resche-Rigon (MRR), Bart Mertens (BM) and Jacques-Emmanuel Galimard (JEG)

1. **Summary of work since last meeting**

* Simulation study implemented on computer cluster, for cause-specific hazards (code available on Gitlab).
* Can draw time to event for single and independent Weibull distributions
* Tried different kinds of MAR mechanism (MAR\_W)
* Added smcfcs from Bartlett into comparison

1. **Simulation study**
   1. **Run through set-up document**
   2. **Look at and discuss results on Shiny app**

* Interaction no longer useful with MAR\_W mechanism, though ch12 is still good
* As beta is larger, approximation wanes
* Winner most of the time (in terms of bias) is smcfcs

1. **Future directions**

* Fine & Gray model, with Taylor approximations but also maybe with smcfcs or full Bayesian.
* Including censoring
* Different MAR mechanisms, using DAGs to explain where bias may arise from
* Binary covariates, multiple missingness patterns
* Non-normal covariates, or *Z* highly skewed with an association with *t*
* Estimates of cumulative incidence