# Minutes of OHDSI workgroup in Population Level Estimation

November 8, 2018

Present: Jamie Weaver, David Madigan, Andrew Williams, Akihiko Nishimura, Jianxiao Yang, Jose

Martijn presented on the new ATLAS Estimation tool.

Andrew: Talked to group at the University of Pittsburgh. They might be interested in joining this workgroup.

Martijn goes over his list of things we could do to start discussions on ongoing and future research topics.

David: Paul Rosenbaum (Penn) wrote about ‘evidence factors’. He showed that multiple independent estimates of the same effect could be easily combined. David thinks this could be applied to dependent estimates to produce more reliable estimates.

Jamie: Perhaps this paper is relevant for this as well? <https://www.ncbi.nlm.nih.gov/pubmed/28108528>

David: Martijn and I are also working on better methods for meta-analysis (E.g. when there are low counts).

Aki is working on Bayesian methods, that may also be useful in meta-analysis.

Andrew: David Kent has worked on finding subgroups in trials (usually at higher risk). Andrew also mentions the use of phenotype ontologies, including a phenotype hierarchy, that might be helpful when trying to find subgroups. Andrew will send abstracts.

David: Here’s work I’ve done on treatment effect heterogeneity: <https://projecteuclid.org/euclid.ba/1473362569>

David: Another topic to explore is the notion that adding covariates to the PS may introduce bias.

Martijn: we have diagnostics, and have not seen this effect (as for example noted in Yuxi’s paper)

Andrew is helping organize OHDSI’s efforts around data quality. Building on Kahn's conceptual framework.

David: Here’s an interesting paper on data quality: <https://dl.acm.org/citation.cfm?id=3186559>