# Minutes of the Population-Level Estimation Workgroup

February 16, 2017

Present: Jamie, Cornelius Raths, Hugh Kawabata, Jing Huang, Alejandro Schuler, Peter Rijnbeek, Marc Suchard, Yong Chen, Yuxi Tian, Rachel Melamed, Rui Duan, Martijn Schuemie

Jing and Rui presented their work on Impacts of Measurement Errors on EHR based Association Studies

Their next research will focus on bayesian methods where chart review informs priors for sensitivity and specificity.

Martijn: Chart review typically only provides an estimate of the PPV. Yong: PPV, estimated prevalance and knowledge about the true prevalence can be used to create a (crude) estimate of sensitivity. The Bayesian approach would able to incorporate this uncertain information in the proper way.

Next, Martijn asks who is interested in the various resource topics he presented earlier.

Topic 1 (Method evaluation): Jamie, Alejandro

Topic 3 (Smooshed comparators): Yong, Martijn, Marc

Topic 5 (Effect modification): Yong, Alejandro, Martijn

Yong: For interaction identification we are usually underpowered. Would like to develop a two-stage procedure that would reduce the number of tests.

Alejandro: ideas for identifying hyperplanes that separate subgroups where the effect size differs.

Martijn wil contact those interested in the specific topic-oriented subgroups to consider next steps, such as procuring funding.