**Minutes of the Population-Level Estimation Workgroup**

January 11, 2017

Present: Erica Voss, Ajou Students, Kenneth Man, Peter Rijnbeek,

Ajou Students: SW Lee, Junghyun, Minseok, Sanghyung Jin, Chan YouSeng, SooYeon Cho, Sungjae Jung, YG Kim, Hojun Park, Shin Dahye, and more..

Erica presented her work on “Using Established Knowledge in Population-Level Estimation In a Systematic Way”

Chan YouSeng: all information in LEARTES is at the ingredient level. Sometimes we would like the information at the class level.

Martijn: We can take that into account. Currently, to get information at the class level we simply integrate over all ingredients in the class.

Chan YouSeng: Controls for combinations drugs can be difficult. For example, in some combinations, one drug is specifically to ameliorate the effect of the other, turning a positive control negative.

Martijn: Indeed, positive controls can be tricky. In general this is why we focus on negative controls. For a combination of drugs, we usually pick controls that are negative for both drugs.

Kenneth: Would it not sometimes make sense to pick negative control exposures for the same outcome, instead of the other way around?

Martijn: Indeed, depending on your need you could use either exposure or outcome controls. The process for finding them stays the same.