**How to use the R code for calculating conditional performance scores for binary endpoints**

The code is packed in a R-project. Accordingly, the “sim\_binary.Rproj” file needs to be opened. This sets the working directory to the path of the project.

The Project can roughly be divided in three parts:

1. The script “simulate\_test\_statistic.R“ simulates the endpoints and the corresponding values of the test statistic Z. The values of the endpoints are saved in “bin\_tables”. These tables contain 200x10000 Bernoulli values for a specified proportion. bin\_tables are separately simulated for the intervention and control group. After simulating the bin\_tables, pairs of bin\_tables (with one bin\_table for the intervention group proportion and one bin\_table for control group proportion ) are taken to generate simulated values of the test statistic. These simulated values of the test statistic are called “approx\_test\_tables”. For each combination of and we generate and save an approx\_test\_table. Each approach\_test\_table contains 200x10000 observations of the test statistic. The 200 columns correspond to the per-group samples sizes of 1 to 200. To run the script, the user just needs to press the source button. The approx\_tables contain the simulated (stochastic) values in the workflow. (run time approx. 5 hours)
2. The script “calculate\_score\_results.R” takes the simulation results of the test statistic Z (contained in the approx\_test\_tables) and calculates Perfomance Results (including the global power, the global mean sample size and the conditional performance score).The results are saved in the folder “results/score\_results”. To run the script, the user just needs to press the source button. These calculations are all deterministic. (run time approx. 5 hours)
3. The script “present\_results.R” generates the tables and graphics, provided in the paper.