**Instructions to run Optimizer program.**

1. Download the optimizer folder
2. Load R script "Optimizer.R"
3. Install rstanarm and parallel R packages.Set the
4. Set the working directory to the optimser folder
5. Run the entire code.
6. The output is as a pdf file "Comparison\_True.pdf" which is generated in the folder in your working directory – it is necessary to install adobe reader to read it.

Notes:

1. File "diretTransfer.csv" contains the data for direct transfer
2. File "Ymatrix.csv" is the file of logistic regression probabilities for log10LR thresholds from 1 to 12 over 0,..,24 hour time interval.