Subject Randomization System

Solomon Henry¹, Douglas Wood¹, and Balasubramanian Narasimhan^{1,2,*}

- 1. Department of Health Research and Policy
- 2. Department of Statistics
- * Contact author: naras@stanford.edu

Keywords: Clinical Trial, Randomization, Web interface

SRS is a system that can be used for subject randomization for clinical trials. Currently it implements biased coin designs of Efron, Wei and the minimization method of Pocock and Simon. The core system is implemented as an R package, and a web interface allows one to define the characteristics of a clinical experiment and register subjects. Built using open-source software, The system can be used for subject randomization in multi-center clinical trials.

References

Efron, 1971 B. Efron, Forcing a sequential experiment to be balanced, Biometrika 58 (1971), pp. 403417.

Wei, 1978b L.J. Wei, The adaptive biased coin designs for sequential experiments, Ann. Statist. 6 (1978) pp 92–99.

Pocock and Simon, 1975 S.J. Pocock and R. Simon, Sequential treatment assignment with balancing for prognostic factors in the controlled clinical trials, Biometrics 31 (1975), pp. 103115.