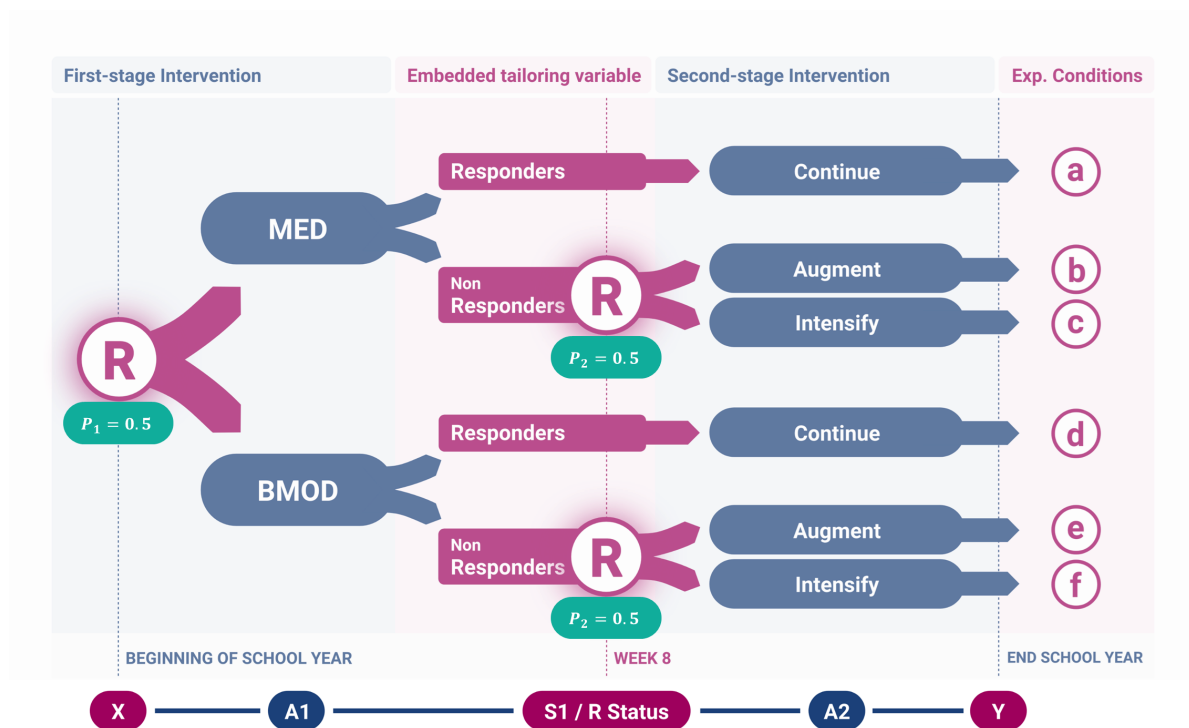


Module V2: Primary Aims Analyses in a Prototypical SMART

Handout: A schematic of the ADHD SMART

The Motivating Study

Our motivating study is the ADHD SMART (PI: Pelham), an example of a prototypical SMART.



Scope of Follow-Along and Code-Along Sessions in this Module

The workflow and code we will be using in the Follow-Along and Code-Along sessions in this module will be specifically applicable to one of the most common types prototypical SMARTs. These are prototypical SMARTs where:

- the probability of being assigned one of two first-stage intervention options is 0.5 (i.e., $P_1 = 0.5$)
- among non-responders, the probability of being assigned to one of two second-stage intervention options is 0.5 (i.e., $P_2 = 0.5$)

Extending the workflow and code to accommodate prototypical SMARTs where either $P_1 \neq 0.5$ or $P_2 \neq 0.5$ is easy once you understand the fundamentals.

Reference

Pelham Jr, W. E., Fabiano, G. A., Waxmonsky, J. G., Greiner, A. R., Gnagy, E. M., Pelham III, W. E., ..., & Murphy, S. A. (2016). Treatment sequencing for childhood ADHD: A multiple-randomization study of adaptive medication and behavioral interventions. *Journal of Clinical Child & Adolescent Psychology*, 45(4), 396-415.