# **ADHD** dataset variable descriptions CATIE 2023, D3C

dim:  $150 \times 13$ 

# **Baseline variables**

Variable name	Variable type and notation	Description
ID	numeric	Subject identifier
odd	binary; $X_1$	Oppositional Defiant Disorder diagnosis, reflecting whether the child was (coded as 1) or was not (coded as 0) diagnosed with ODD before the first-stage intervention.
severity	continuous: $X_2$	ADHD score, reflecting ADHD symptoms at the end of the previous school year (larger values reflect greater symptoms). Range 0-10.
priormed	binary; $X_3$	Medication prior to first-stage intervention, reflecting whether the child did (coded as 1) or did not (coded as 0) receive medication during the previous school year.
race	binary; $X_4$	White (coded 1) versus non-white (coded 0).

# Intermediate variables

Variable Name	Variable type and notation	Description
R	binary; $S_{11}$	Response status. $R = 0$ if child was classified as non-responder to first stage intervention, $R = 1$ if they were classified as a responder.
NRtime	numeric; $S_{12}$	Month at which child was classified as non-responder. Range 2-8. Undefined for responders.

Variable Name	Variable type and notation	Description
adherence	binary; $S_{13}$	Adherence to the stage 1 intervention. Reflecting whether the child did (coded as 1) or did not (coded as 0) show high adherence to initial treatment.

#### **Treatments**

We use effect coding (average to zero) to denote the two levels of treatment assignment. The primary benefit of effect coding is that we get interpretable estimates of both the main effects and interactions.

Variable Name	Variable type and notation	Description
A1	binary	Stage 1 treatment assignment. Randomized with probability 0.5 to Medication (MED, $A1 = -1$ ) or Behavioral Intervention (BMOD, $A1 = 1$ ).
A2	binary	stage 2 treatment assignment for non-responders. Non-responders we randomized with probability 0.5 to receive Augmented (AUG, $A2 = -1$ ) or Intensified (INT, $A2 = 1$ ) care. Undefined for responders.

### **Outcomes**

Variable type and notation	Description
ontinuous	Baseline school performance (higher values reflect better performance).
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## Reference

Nahum-Shani, Inbal, Min Qian, Daniel Almirall, William E. Pelham, Beth Gnagy, Greg Fabiano, Jim Waxmonsky, Jihnhee Yu, and Susan Murphy. 2012. "Experimental Design and Primary Data Analysis Methods for Comparing Adaptive Interventions." *Psychological Methods* 17 (4): 10.1037/a0029372. https://doi.org/10.1037/a0029372.