

Table 1: Variables used in Example

<i>Variable</i>	<i>Collected During</i>
Suspected Abuse ¹	Kindergarten
Race ¹	Kindergarten
School Behavior Problems ¹	End of Grade 1
School Behavior Problems ²	End of Grade 3
School Behavior Change ²	End of Grade 3
Home Visiting Process Measure ³	End of Every Semester
Home Visiting Assignment ⁴	Beginning of Every Semester
Academic Performance ¹	End of Grades 1 and 2
Social Skills ¹	Average for Grades 1 and 2
Site (4 Sites) ¹	Kindergarten
Cohort (2 Cohorts) ¹	Kindergarten

¹Auxiliary Covariates (V_0 or V_t).

²Response (Y).

³Severity (S_t).

⁴Treatment Level (A_t).

Table 2a: Model for Home Visiting Assignment Probabilities

Fall Grade 2		
<i>Covariate</i>	<i>Estimate</i>	<i>Stderr</i>
Intercept 1	-1.45	0.36
Intercept 2	1.40	0.35
Cohort 1	-0.58	0.29
Site 1	-0.58	0.42
Site 2	-0.24	0.43
Site 3	0.42	0.36
HVPM16 ¹	2.22	0.75
HVPM4 ¹	-2.58	0.31

¹ HVPM16 is 1 only if the home visiting process measure is ≤ 8 ; otherwise it is zero. HVPM4 is 1 only if the home visiting process measure is ≥ 17 ; otherwise it is zero.

Table 2b: Model for Home Visiting Assignment Probabilities

Spring Grade 2		
<i>Covariate</i>	<i>Estimate</i>	<i>Stderr</i>
Intercept 1	-2.61	0.47
Intercept 2	1.10	0.40
Cohort 1	-0.51	0.33
Site 1	1.64	0.49
Site 2	0.01	0.56
Site 3	1.76	0.45
HVPM16 ¹	3.04	0.96
HVPM4 ¹	-2.36	0.38
Past High Home Visiting Assignment ²	2.18	.60
Past Low Home Visiting Assignment ²	-1.55	0.39

¹ HVPM16 is 1 only if the home visiting process measure is ≤ 8 ; otherwise it is zero. HVPM4 is 1 only if the home visiting process measure is ≥ 17 ; otherwise it is 0.

² Past High Home Visiting Assignment if 1 if home visiting assignment in fall of 2nd Grade is 16; otherwise it is 0. Past Low Home Visiting Assignment is 1 if home visiting assignment in fall of 2nd grade is 4; otherwise it is 0.

Table 2c: Model for Home Visiting Assignment Probabilities

Fall Grade 3		
<i>Covariate</i>	<i>Estimate</i>	<i>Stderr</i>
Intercept 1	-3.19	0.69
Intercept 2	3.00	0.60
Cohort 1	-0.58	0.38
Site 1	-1.26	0.55
Site 2	-0.75	0.62
Site 3	1.23	0.48
HVPM16 ¹	0.19	1.08
HVPM4 ¹	-3.65	0.68
Past High Home Visiting Assignment ²	2.98	.68
Past Low Home Visiting Assignment ²	-1.31	0.41

¹ HVPM16 is 1 only if the home visiting process measure is ≤ 8 ; otherwise it is zero. HVPM4 is 1 only if the home visiting process measure is ≥ 17 ; otherwise it is 0.

² Past High Home Visiting Assignment is 1 if home visiting assignment in spring of 2nd Grade is 16; otherwise it is 0. Past Low Home Visiting Assignment is 1 if home visiting assignment in spring of 2nd grade is 4; otherwise it is 0.

Table 2d: Model for Home Visiting Assignment Probabilities

Spring Grade 3		
<i>Covariate</i>	<i>Estimate</i>	<i>Stderr</i>
Intercept 1	-3.95	1.09
Intercept 2	3.35	0.61
Cohort 1	-0.89	0.43
Site 1	-0.82	0.55
Site 2	-0.56	0.63
Site 3	1.18	0.54
HVPM16 ¹	4.67	1.61
HVPM4 ¹	-2.75	0.47
Past High Home Visiting Assignment ²	5.94	1.61
Past Low Home Visiting Assignment ²	-2.53	0.43

¹HVPM16 is 1 only if the home visiting process measure is ≤ 8 ; otherwise it is zero. HVPM4 is 1 only if the home visiting process measure is ≥ 17 ; otherwise it is 0.

² Past High Home Visiting Assignment if 1 if home visiting assignment in fall of 3rd Grade is 16; otherwise it is 0. Past Low Home Visiting Assignment is 1 if home visiting assignment in fall of 3rd grade is 4; otherwise it is 0.

Table 3a: Model for g_1 through g_4

School Behavior Problems		
<i>Covariate</i>	<i>Estimate</i> ¹	<i>Stderr</i>
Intercept	0.30	0.21
Cohort 1	-0.28	0.10
Site 1	0.43	0.14
Site 2	0.48	0.15
Site 3	0.45	0.12
Suspected Abuse School Behavior	0.20	0.06
Problems–Grade 1 Most Recent Academic	0.26	0.06
Performance Score	0.09	0.03
Most Recent Social Skills Score	0.16	0.05

¹ All variables are coded so that high values indicate poorer functioning.

Table 3b: Model for g_1 through g_4

School Behavior Change		
<i>Covariate</i>	<i>Estimate</i> ¹	<i>Stderr</i>
Intercept	-0.93	0.34
Site 1	-0.62	0.19
Site 2	-0.44	0.18
Site 3	-0.15	0.19
Suspected Abuse	-0.06	0.10
School Behavior Problems–Grade 1	0.18	0.10
Most Recent Academic Performance Score	0.05	0.03
Most Recent Social Skills Score	-0.15	0.07

¹ All variables are coded so that high values indicate poorer functioning.

Table 4a: Estimated Treatment Effect on School Behavior Problems¹

<i>h</i>	<i>Estimated Treatment Effect</i> ²	<i>Stderr</i>
ITT ³	-0.23	0.07
0	-0.21	0.08
.2	-0.24	0.08
.4	-0.28	0.08
.6	-0.31	0.08
.8	-0.35	0.08
1	-0.40	0.09

¹The estimated intercepts and the regression coefficients of grade 1 school behavior problems score are omitted.

²High Values on the school behavior problems response indicate behavior problems at school.

³Results of a simple linear regression of response on treatment and grade 1 social health profile; all weights are equal to 1.

Table 4b: Estimated Treatment Effect on School Behavior Change¹

<i>h</i>	<i>Estimated Treatment Effect</i> ²	<i>Stderr</i>
ITT ³	-0.33	0.09
0	-0.39	0.10
.2	-0.38	0.10
.4	-0.36	0.10
.6	-0.32	0.10
.8	-0.27	0.11
1	-0.19	0.13

¹The estimated intercepts are omitted.

²Low Values on the School Behavior Change indicate improvement across the year in social and emotional adjustment.

³Results of a simple linear regression of response on treatment; all weights are equal to 1.

Table 5a: Model for Numerator of the Weights

	Fall Grade 2		Spring Grade 2	
<i>Covariate</i>	<i>Estimate</i>	<i>Stderr</i> *	<i>Estimate</i>	<i>Stderr</i> ¹
Intercept 1	-1.69	0.23	-1.55	0.25
Intercept 2	1.06	0.20	1.27	0.24
HVPM16 ²	2.43	1.03	2.67	0.82
HVPM4 ²	-2.61	0.34	-2.69	0.34

¹This model is used to approximate the distribution of treatment assignment given the home visiting process measure, thus robust standard errors are provided.

²HVPM16 is 1 only if the home visiting process measure is ≤ 8 ; otherwise it is zero. HVPM4 is 1 only if the home visiting process measure is ≥ 17 ; otherwise it is zero.

Table 5b: Model for Numerator of the Weights

	Fall Grade 3		Spring Grade 3	
<i>Covariate</i>	<i>Estimate</i>	<i>Stderr</i> *	<i>Estimate</i>	<i>Stderr</i> *
Intercept 1	-2.57	0.42	-2.87	0.45
Intercept 2	1.71	0.32	1.28	0.26
HVPM16**	1.95	1.22	3.79	0.93
HVPM4**	-3.00	0.36	-2.43	0.34

*This model is used to approximate the distribution of treatment assignment given the home visiting process measure, thus robust standard errors are provided.

**HVPM16 is 1 only if the home visiting process measure is ≤ 8 ; otherwise it is zero. HVPM4 is 1 only if the home visiting process measure is ≥ 17 ; otherwise it is zero.