Supplemental Information

SUPPLEMENTAL TABLE 6 No Covariate Model Estimates of Youth Cognitive, Language, Academic, and Executive Functioning Outcomes and SSI Benefit Received Among 18-Year-Old Youth in Intervention and Control Conditions

Variable	Group	Age at Assessment,[a] y	Control, T2		NV, T4		T4–T2	
			N	LS Mean[b] or % (SE)	N	LS Mean[b] or % (SE)	ES[c] or aOR (95% CI)	P
Primary outcome								
Nonverbal intelligence	Whole	18	431	LS mean 88.47 (0.62)	192	LS mean 88.22 (0.93)	ES −0.02 (−0.21 to 0.17)	.83
	LPR[d]	18	227	LS mean 85.80 (0.86)	106	LS mean 86.35 (1.25)	ES 0.05 (−0.21 to 0.30)	.72
	Whole	All[e]	454	LS mean 88.85 (0.48)	204	LS mean 89.33 (0.72)	ES 0.04 (−0.10 to 0.18)	.58
	LPR[d]	All[e]	237	LS mean 86.58 (0.66)	111	LS mean 87.61 (0.97)	ES 0.09 (−0.11 to 0.28)	.38
Receptive language	Whole	18	427	LS mean 81.95 (0.70)	194	LS mean 81.94 (1.04)	ES −0.00 (−0.18 to 0.17)	.99
	LPR[d]	18	223	LS mean 78.03 (0.97)	108	LS mean 80.57 (1.39)	ES 0.18 (−0.06 to 0.42)	.14
	Whole	All[e]	454	LS mean 82.41 (0.58)	204	LS mean 82.92 (0.86)	ES 0.04 (−0.11 to 0.18)	.62
	LPR[d]	All[e]	237	LS mean 78.93 (0.79)	111	LS mean 81.00 (1.16)	ES 0.15 (−0.05 to 0.34)	.14
Math achievement score	Whole	18	428	LS mean 80.57 (0.59)	193	LS mean 82.03 (0.88)	ES 0.12 (−0.05 to 0.29)	.17
	LPR[d]	18	225	LS mean 77.73 (0.81)	108	LS mean 81.85 (1.17)	ES 0.34 (0.11 to 0.57)	.004***
	Whole	All[f]	454	LS mean 85.40 (0.48)	205	LS mean 86.34 (0.71)	ES 0.08 (−0.06 to 0.22)	.27
	LPR[d]	All[f]	237	LS mean 82.44 (0.66)	111	LS mean 85.82 (0.97)	ES 0.28 (0.09 to 0.47)	.004***
Secondary outcome								
Sustained attention	Whole	18	432	LS mean 8.71 (0.13)	194	LS mean 8.74 (0.19)	ES 0.01 (−0.15 to 0.17)	.91
	LPR[d]	18	227	LS mean 8.20 (0.18)	108	LS mean 8.47 (0.26)	ES 0.09 (−0.13 to 0.31)	.41
	Whole	All[g]	443	LS mean 8.71 (0.12)	199	LS mean 8.63 (0.18)	ES −0.03 (−0.18 to 0.12)	.70
	LPR[d]	All[g]	232	LS mean 8.43 (0.17)	110	LS mean 8.43 (0.24)	ES 0.00 (−0.20 to 0.20)	.99
Working memory index	Whole	18	432	LS mean 8.37 (0.13)	194	LS mean 8.62 (0.19)	ES 0.09 (−0.07 to 0.26)	.27
	LPR[d]	18	227	LS mean 7.82 (0.17)	108	LS mean 8.35 (0.25)	ES 0.20 (−0.02 to 0.43)	.08*
Emotion recognition, No. correct	Whole	18	427	LS mean 52.65 (0.40)	190	LS mean 53.68 (0.61)	ES 0.12 (−0.05 to 0.29)	.16
	LPR[d]	18	225	LS mean 51.69 (0.55)	104	LS mean 53.47 (0.82)	ES 0.21 (−0.02 to 0.45)	.07*
Risky decision-making	Whole	18	430	LS mean 5.19 (0.19)	193	LS mean 4.97 (0.29)	ES −0.06 (−0.23 to 0.11)	.52
	LPR[d]	18	227	LS mean 5.09 (0.26)	107	LS mean 5.10 (0.39)	ES 0.00 (−0.23 to 0.23)	.98
High school graduation	Whole	18	431	71.4% (2.19)	188	74.4% (3.27)	aOR 1.17 (0.79 to 1.74)	.44
	LPR	18	227	69.6% (3.05)	106	68.9% (4.50)	aOR 0.97 (0.59 to 1.59)	.89
Graduate with honors[h]	Whole	18	431	5.4% (1.16)	188	10.2% (2.22)	aOR 1.99 (1.04 to 3.81)	.04**
	LPR	18	227	3.1% (1.15)	106	8.5% (2.71)	aOR 2.92 (1.06 to 8.06)	.04**
SSI: disability[h]	Whole	18	429	6.9% (1.38)	190	4.5% (1.55)	aOR 0.64 (0.28 to 1.45)	.27
	LPR[d]	18	226	13.3% (2.26)	104	5.8% (2.29)	aOR 0.40 (0.16 to 0.99)	.03**

The estimates of intervention-control differences averaged over all other fixed classification variables, including those within subjects, and the same treatment effect are restricted to the group defined by LPR. This table shows the least-squares means at 18 y and repeated measures over time (labeled "all" under "age at assessment"), which also are averaged over other fixed classification effects. For estimates of treatment effects based on repeated measures, we assumed an error structure with different variances at each time for a given child and different covariance between pairs of times within each child. These were assumed to be the same for all children, and covariance between children was assumed to be negligible. Contrasts at specific, earlier time points are presented in earlier publications.[10–15] LS, least squares; T2, prenatal transportation plus developmental screening and referral; T4, prenatal transportation plus developmental screening and referral and prenatal and infant and/or toddler nurse home visits.
[a] Age 18 assessment denoted by 18 y; repeated-measures assessment is denoted by "all." The exact ages aggregated for repeated-measures estimates are given in footnotes.
[b] Adjusted.
[c] Expressed in SD units.
[d] Subgroup defined by youth mothers falling into the lower half of the distribution for PR (LPR).
[e] Ages 6 and 18.
[f] Ages 6, 12, and 18.
[g] Ages 12 and 18.
[h] Exploratory outcome.
* P < .10; ** P < .05; *** P < .01.

SUPPLEMENTAL TABLE 7 No Covariate Model Estimates of Youth Substance-Use Disorders, Drug or Alcohol Use, STIs, Pregnancies, Births, Behavioral Problems, Arrests, Convictions, and Gang Activity

Variable	Group	Age at Assessment, y	Control, T2 N	Control, T2 LS Mean[a] or % (SE)	NV, T4 N	NV, T4 LS Mean[a] or % (SE)	T4–T2 ES,[b] aOR, IR, or HR (95% CI)	P
Primary outcome								
Time to substance-use disorder[c,d]	Whole	18	435	11.3% (1.44)	194	13.7% (2.25)	HR 1.23 (0.82 to 1.85)	.32
Current drug use SR past month or positive laboratory test result[e]	Whole	18	423	48.2% (2.43)	190	51.6% (3.63)	aOR 1.14 (0.81 to 1.61)	.44
Time to first pregnancy[c,d]	Males	18	210	18.2% (2.58)	95	15.6% (3.36)	HR 0.84 (0.50 to 1.42)	.52
	Females	18	225	26.6% (2.88)	99	24.3% (4.06)	HR 0.90 (0.58 to 1.40)	.65
Time to first live birth[c,d]	Males	18	210	6.9% (1.65)	95	8.0% (2.45)	HR 1.17 (0.57 to 2.40)	.67
	Females	18	225	16.8% (2.42)	99	14.3% (3.28)	HR 0.84 (0.49 to 1.46)	.54
Any positive STI laboratory test result	Males	18	198	15.7% (2.58)	88	14.8% (3.78)	aOR 0.93 (0.46 to 1.89)	.85
	Females	18	220	23.2% (2.85)	99	26.3% (4.42)	aOR 1.18 (0.68 to 2.04)	.55
HIV risk (log transformed)	Whole	18	417	LS mean −13.51 (0.17)	187	LS mean −13.68 (0.26)	ES −0.05 (−0.22 to 0.12)	.58
Internalizing behavior problems[f,g]	Whole	18	431	18.0% (1.95)	194	17.1% (2.83)	aOR 0.94 (0.59 to 1.50)	.78
	Whole	All[g]	459	20.8% (1.35)	207	17.9% (1.86)	aOR 0.83 (0.62 to 1.12)	.23
No. arrests[c]	Whole	18	435	LS mean 0.36 (0.05)	194	LS mean 0.39 (0.08)	IR 1.09 (0.65 to 1.80)	.75
	Females	18	225	LS mean 0.24 (0.05)	99	LS mean 0.22 (0.07)	IR 0.94 (0.44 to 2.02)	.88
No. convictions[c]	Whole	18	435	LS mean 0.28 (0.04)	194	LS mean 0.27 (0.06)	IR 0.97 (0.57 to 1.64)	.90
	Females	18	225	LS mean 0.21 (0.04)	99	LS mean 0.12 (0.04)	IR 0.58 (0.25 to 1.34)	.20
No. interpersonal violence arrests[c]	Whole	18	435	LS mean 0.14 (0.03)	194	LS mean 0.20 (0.05)	IR 1.44 (0.76 to 2.72)	.26
	Females	18	225	LS mean 0.10 (0.03)	99	LS mean 0.15 (0.06)	IR 1.55 (0.60 to 4.00)	.36
No. interpersonal violence convictions[c]	Whole	18	435	LS mean 0.10 (0.02)	194	LS mean 0.15 (0.04)	IR 1.42 (0.71 to 2.81)	.32
	Females	18	225	LS mean 0.09 (0.03)	99	LS mean 0.08 (0.04)	IR 0.91 (0.32 to 2.61)	.86
Ever in a gang[c]	Whole	18	432	10.9% (1.50)	193	14.5% (2.54)	aOR 1.39 (0.84 to 2.30)	.20
Secondary outcome								
Externalizing behavior problems[h]	Whole	18	424	7.6% (1.33)	187	8.6% (2.14)	aOR 1.15 (0.60 to 2.20)	.67
	Whole	All[g]	459	14.4% (1.21)	206	14.9% (1.82)	aOR 1.04 (0.74 to 1.46)	.83
Total behavior problems[g,h]	Whole	18	424	4.5% (1.04)	187	7.2% (1.97)	aOR 1.64 (0.77 to 3.45)	.20
	Whole	All[g]	459	8.4% (0.96)	206	8.1% (1.53)	aOR 0.96 (0.60 to 1.53)	.86

The estimates of intervention-control differences averaged over all other fixed classification variables, including those within subjects, and the same treatment effect are restricted to the group defined by females for arrest and conviction outcomes. This table shows the least-squares means at 18 y and repeated measures over time, which also are averaged over other fixed classification effects. For estimates of treatment effects based on repeated measures (labeled "all" under "age at assessment"), we assumed an error structure with different variances at each time for a given child and different covariance between pairs of times within each child. These were assumed to be the same for all children, and covariance between children was assumed to be negligible. Contrasts at specific, earlier time points are presented in earlier publications.[10–15] HR, hazards ratio; LS, least squares; SR, self-report; T2, prenatal transportation plus developmental screening and referral; T4, prenatal transportation plus developmental screening and referral and prenatal and infant and/or toddler nurse home visits.

[a] Adjusted.

[b] Expressed in SD units.

[c] Arrest-related outcomes were based on self-report combined with maternal and other-caregiver report (when available).

[d] Survival rate at age 18 from Cox proportional hazard model.

[e] Based on both self-report for all substances and urine assays for specific substances: phencyclidine, benzodiazepines, cocaine, amphetamines, tetrahydrocannabinol, opiates, and barbiturates.

[f] Internalizing problems were based on youth self-report at ages 12 and 18 and maternal and/or other-caregiver report at child age 6, indicated by values exceeding the borderline or clinical threshold.

[g] Ages 6, 12, and 18.

[h] Externalizing and total problems were based on reports in which mothers and/or other caregivers (age 6); mothers and/or other caregivers, teachers, and children (2 of 3 at age 12); and youth and mothers and/or other caregivers (age 18) reported scores that exceeded the borderline or clinical threshold.