Chicago Longitudinal Study

Internal Report

Rates of Abuse and Neglect

March 8, 2005

Joshua Mersky
Dylan Robertson

CLS Child Maltreatment Overview: The Chicago Longitudinal Study (CLS) has collected data on official records of child abuse and neglect from two administrative sources maintained at the Chapin Hall Center for Children: petitions to Cook County Juvenile Court and referrals to the Child Protection Division of Illinois Dept. of Child Services (DCFS). The abuse and neglect sample (N=1411) includes participants who resided in the Chicago area in 1990 ($\geq$ age 10) or later.

Indicators: Tables 1a, 1b, and 1c present unadjusted descriptive statistics for rates of indicated (substantiated) abuse and neglect from DCFS, Court, and combined (DCFS & Court) records, respectively. Overall, 10.3% of the sample had an indicated DCFS report, 8.2% had an indicated petition from juvenile court records, and 13.5% had an indicated report in at least one of the two administrative sources. No significant differences in rates of aggregate maltreatment by gender were detected across the sources. Females were more likely to have an indicated report of sexual abuse; no gender differences were found for other maltreatment subtypes. CPC preschool participation was associated with a significant reduction in substantiated maltreatment from age 4 through 17 for all data sources. CPC school-age participation was not associated with a reduction in indicated DCFS or Juvenile Court maltreatment records, but it was associated with a reduction in substantiated maltreatment in the combined measure. CPC participation was associated with a significant reduction in neglect from age 4-17 for all sources, and with a significant reduction in physical abuse in DCFS records.

Correlates: Table 2 lists correlations between select explanatory variables and indicated child abuse and neglect. A cumulative risk index (age 0-3) was significantly correlated with maltreatment from age 4 through 17 across all data sources. Among the individual and family risk indicators measured prior to program participation, single-parent family status, having a mother who was a teen parent (< age 18), having a mother who did not graduate from high school, and family AFDC receipt were the strongest correlates. Interestingly, having four or more children was negatively correlated with all maltreatment indicators. This may reflect that, at the point of measurement (age 0-3), larger families were more likely to be headed by older parents, who may be less likely to abuse and/or neglect their children.

Subgroup Comparisons: Tables 3a, 3b, and 3c show the mean rates of maltreatment as they vary by certain background characteristics measured prior to CPC program participation. Significant unadjusted differences were evident for several individual-level variables, including scores on a composite measure of socio-emotional functioning from grades 1 through 6 (SEMAT16D), ITBS reading scores in grades 6 and 8, school mobility ($\geq$ 3 moves, years 4-8), and school retention ($\geq$ 1 grade). In addition, a number of family-level indicators were associated with increased rates of maltreatment, including single-parent family status, having a mother who did not complete high school, having a mother who was a teen parent (< age 18), AFDC receipt, previous child welfare service history, and having four or more risks on a composite risk measure.

Comparisons to Selected Samples: Figure 1 reveals that the incidence rate in Illinois for substantiated maltreatment in 1998 was comparable to the overall national rate. It also indicates that the rate for African American children was nearly double that of Hispanic/Latino children and nearly 2.5 times greater than Caucasian children. Figure 2 shows estimates of lifetime prevalence of maltreatment obtained from a recent meta-analysis conducted by Aos et al. (2004), which compared rates across 10 recent studies using weighted averages to correct for differences in definitions, populations, and times. The authors also estimate the prevalence rate for Washington State (See Figure 2). As expected, given the disadvantaged nature of our sample, the prevalence rate for the CLS is slightly higher than both estimates reported by Aos and colleagues.

Table 1a. *Any Substantiated DCFS Report of Maltreatment During Selected Child Age Points**

Indicated abuse and neglect	Total Sample N=1411	Gender		CPC Preschool		Follow On		CPC Extended Intervention		
		Boys	Girls	Any	None	Any	None	4 to 6	1 to 4	0
Any indicated report of neglect, %										
Age 4- 9	4.3	3.3	5.2	3.2	6.2	3.9	4.7	2.0	6.0	5.0
Age 10-17	3.2	3.1	3.2	2.3	4.8	2.9	3.5	2.2	3.2	4.7
Age 4-17	6.7	5.9	7.2	4.7	10.3	6.0	7.5	3.7	8.1	9.2
Any indicated report of abuse, %**										
Age 4-9	2.7	2.9	2.5	2.4	3.2	2.3	3.2	1.5	3.2	3.9
Age 10-17	3.3	2.7	3.8	2.5	4.6	3.6	2.8	3.1	2.8	4.2
Age 4-17	5.6	5.3	5.9	4.7	7.2	5.7	5.5	4.2	6.0	7.1
Any indicated report of physical abuse, %										
Age 4- 9	0.8	1.4	0.1	0.7	1.0	0.5	0.5	0.4	0.9	1.2
Age 10-17	1.5	1.6	1.4	0.9	2.6	1.5	1.5	1.3	1.1	2.4
Age 4-17	2.1	2.7	1.5	1.4	3.4	1.8	2.5	1.5	2.1	3.3
Any indicated report of sexual abuse, %										
Age 4-9	0.9	0.3	1.4	0.7	1.2	0.6	1.2	0.4	0.9	1.5
Age 10-17	0.6	0.1	1.0	0.5	0.6	0.6	0.5	0.6	0.4	0.9
Age 4-17	1.4	0.4	2.4	1.2	1.8	1.2	1.7	0.9	1.3	2.4
Any indicated subst. risk phys. injury, %										
Age 4-9	1.6	1.7	1.5	1.4	2.0	1.5	1.8	0.9	1.9	2.4
Age 10-17	2.0	1.4	2.5	1.6	2.6	2.3	1.5	2.0	1.9	2.1
Age 4-17	3.5	3.1	3.9	3.0	4.6	3.7	3.4	2.8	3.8	4.5
More than 1 category of maltreatment, %										
Age 4-9	1.6	1.6	1.7	1.4	2.0	1.6	1.7	1.1	1.7	2.4
Age 10-17	1.3	1.0	1.7	1.0	2.0	1.6	1.0	1.3	1.1	1.8
Age 4-17	3.0	2.7	3.4	2.4	4.2	3.3	2.7	2.4	3.0	4.2
Any indicated report of maltreatment, %										
Age 0-3	0.6	0.6	0.6	0.2	1.2	0.2	1.0	--	0.6	1.5
Age 4- 9	5.6	4.9	6.3	4.5	7.6	4.7	6.9	2.6	7.8	7.1
Age 10-17	5.8	5.3	6.3	4.4	8.5	5.8	5.9	4.8	5.5	8.0
Age 4-17	10.2	9.1	11.3	7.8	14.7	9.2	11.6	6.2	12.1	13.6
Age 0-17	10.3	9.3	11.3	7.9	14.7	9.2	11.7	6.2	12.3	13.6

Note. *Children may be in more than one age and maltreatment category.

    ** Any indicated abuse includes reports for physical abuse, sexual abuse, and substantial risk of physical injury.

Table 1b. *Any Substantiated Court Report of Maltreatment During Selected Child Age Points**

Indicated abuse and neglect	Total Sample N=1411	Gender		CPC Preschool		Follow On		CPC Extended Intervention		
		Boys	Girls	Any	None	Any	None	4 to 6	1 to 4	0
Any indicated report of neglect, %										
Age 4- 9	3.3	2.7	3.9	2.6	4.6	3.2	3.5	2.2	3.6	4.7
Age 10-17	2.1	2.3	2.0	1.6	3.0	2.0	2.3	1.3	2.6	2.7
Age 4-17	5.3	4.9	5.8	4.0	7.6	5.0	5.7	3.5	5.9	7.4
Any indicated report of abuse, %*										
Age 4-9	2.6	2.4	2.7	2.6	2.4	2.7	2.3	2.0	3.2	2.4
Age 10-17	2.8	2.9	2.7	2.5	3.2	2.6	3.0	1.8	3.8	2.7
Age 4-17	5.0	5.1	4.9	4.7	5.6	5.2	4.9	3.9	6.2	5.0
Any indicated report of physical abuse, %										
Age 4- 9	0.9	0.7	1.0	0.9	0.8	0.6	1.2	0.6	1.1	0.9
Age 10-17	1.0	0.9	1.1	1.0	1.0	0.9	1.2	0.9	0.9	1.2
Age 4-17	1.8	1.6	2.0	1.8	1.8	1.5	2.2	1.5	1.9	2.1
Any indicated report of sexual abuse, %										
Age 4-9	0.3	0.1	0.4	0.3	0.2	0.4	0.2	0.4	0.2	0.3
Age 10-17	0.1	--	0.1	--	0.2	0.1	--	--	0.2	--
Age 4-17	0.4	0.1	0.6	0.3	0.4	0.5	0.2	0.4	0.4	0.3
Any indicated subst. risk phys. injury, %										
Age 4-9	2.5	2.4	2.5	2.5	2.4	2.6	2.3	2.0	3.0	2.4
Age 10-17	2.6	2.6	2.5	2.2	3.2	2.3	2.8	1.7	3.4	2.7
Age 4-17	4.7	4.9	4.6	4.3	5.6	4.8	4.7	3.7	5.7	5.0
More than 1 category of maltreatment, %										
Age 4-9	2.3	2.7	2.0	2.4	2.2	2.3	2.3	1.7	3.0	2.4
Age 10-17	2.1	2.0	2.3	1.8	2.8	2.1	2.2	1.3	3.0	2.1
Age 4-17	4.3	4.4	4.1	3.8	5.0	4.3	4.2	2.9	5.5	4.5
Any indicated report of maltreatment, %										
Age 0-3	1.3	1.4	1.1	1.3	1.2	1.4	1.2	1.1	1.5	1.2
Age 4- 9	4.0	3.4	4.6	3.6	4.8	3.9	4.2	2.9	4.7	4.7
Age 10-17	3.3	3.1	3.4	2.8	4.0	2.8	3.9	2.2	4.0	3.9
Age 4-17	7.1	6.4	7.7	6.1	8.9	6.6	7.7	5.1	8.1	8.6
Age 0-17	8.2	7.6	8.9	7.3	9.9	7.9	8.7	6.2	9.5	9.5

Note. *Children may be in more than one age and maltreatment category.

    ** Any indicated abuse includes reports for physical abuse, sexual abuse, and substantial risk of physical injury.

Table 1c. *Any Substantiated DCFS & Court Report of Maltreatment During Selected Child Age Points**

Indicated abuse and neglect	Total Sample N=1411	Gender		CPC Preschool		Follow On		CPC Extended Intervention		
		Boys	Girls	Any	None	Any	None	4 to 6	1 to 4	0
Any indicated report of neglect, %										
Age 4- 9	5.5	4.6	6.3	4.2	7.8	5.0	6.0	3.1	6.8	7.1
Age 10-17	4.6	4.4	4.8	3.5	6.6	4.1	5.4	3.1	4.9	6.5
Age 4-17	8.6	7.9	9.4	6.2	13.1	7.6	10.1	5.1	9.8	12.5
Any indicated report of abuse, %**										
Age 4-9	4.0	4.0	4.1	3.7	4.6	3.7	4.5	2.8	4.7	5.0
Age 10-17	5.2	4.7	5.6	4.4	6.6	5.0	5.4	3.9	6.0	5.9
Age 4-17	8.5	8.1	8.9	7.3	10.7	8.2	8.9	6.1	10.0	10.1
Any indicated report of physical abuse, %										
Age 4- 9	1.3	1.6	1.0	1.2	1.4	0.9	1.8	0.7	1.5	1.8
Age 10-17	2.3	2.4	2.3	1.9	3.2	2.2	2.5	2.2	1.9	3.3
Age 4-17	3.3	3.6	3.1	2.7	4.4	2.8	4.0	2.6	3.2	4.7
Any indicated report of sexual abuse, %										
Age 4-9	1.1	0.4	1.7	0.9	1.4	0.9	1.3	0.6	1.1	1.8
Age 10-17	0.6	0.1	1.1	0.5	0.8	0.7	0.5	0.6	0.6	0.9
Age 4-17	1.7	0.6	2.8	1.4	2.2	1.6	1.8	1.1	1.7	2.7
Any indicated subst. risk phys. injury, %										
Age 4-9	3.1	3.1	3.1	3.0	3.4	2.9	2.9	2.4	3.6	3.6
Age 10-17	3.9	3.4	4.4	3.3	5.0	3.9	3.9	2.8	5.1	3.9
Age 4-17	6.6	6.3	6.9	5.6	8.5	6.5	6.7	4.8	7.9	7.4
More than 1 category of maltreatment, %										
Age 4-9	3.1	2.7	3.5	2.8	3.6	2.9	3.4	2.0	3.8	3.9
Age 10-17	3.4	3.0	3.8	2.7	4.6	3.6	3.2	2.6	4.0	3.9
Age 4-17	6.3	5.7	6.9	5.1	8.5	6.4	6.2	4.2	7.6	7.7
Any indicated report of maltreatment, %										
Age 0-3	1.8	1.9	1.7	1.4	2.4	1.5	2.2	1.1	1.9	2.7
Age 4- 9	6.9	6.3	7.6	5.8	9.1	6.1	8.0	4.2	8.7	8.6
Age 10-17	7.5	7.0	8.0	6.1	10.1	6.9	8.4	5.7	7.9	9.8
Age 4-17	12.5	11.4	13.6	10.2	16.9	10.9	14.7	8.3	14.6	16.3
Age 0-17	13.5	12.6	14.5	11.3	17.7	12.0	15.6	9.4	15.5	17.2

Note. *Children may be in more than one age and maltreatment category.

    ** Any indicated abuse includes reports for physical abuse, sexual abuse, and substantial risk of physical injury.

Table 2 Correlation Matrix Child Abuse and Neglect, 4-17, DCFS & Court

Variable	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. Family risk index, 0-3	--																		
2. Single parent status, 0-3	.451*	--																	
3. Mother is less than 18, 0-3	.391*	.225*	--																
4. Mother did not completed HS, 0-3	.552*	.112*	.326*	--															
5. Mother not employed, 0-3	.692*	.180*	.064*	.181*	--														
6. 4 or more children in household, 0-3	.123*	-.230*	-.204*	.042	.004	--													
7. TANF/AFDC participation, 0-3	.727*	.251*	.106*	.191*	.670*	-.050	--												
8. Eligible for free lunch, 0-3	.542*	.119*	.060*	.153*	.331*	.012	.399*	--											
9. ≥ 60% poverty in school area, 0-3	.331*	.055*	-.027	.020	.087*	.023	.077*	.059*	--										
10. Four or more risk factors, 0-3	.810*	.358*	.221*	.382*	.642*	.074*	.670*	.500*	.202*	--									
11. Family child welfare services, 0-3	.052	.045	.014	.088*	.007	.023	.005	.035	.001	.047	--								
12. Low birth weight, < 2500 grams	.093*	.070*	.011	.038	.057*	.004	.106*	.035	.025	.109*	.065*	--							
13. ITBS8 Read ≥ 88 norms	-.189*	-.048	-.050	-.149*	-.114*	-.052	-.121*	-.147*	-.051	-.158*	-.026	-.081	--						
14. HS completion (w/ GED)	-.213*	-.072*	-.080*	-.170*	-.134*	-.038	-.198*	-.083*	-.011	-.139*	-.020	-.031	.324*	--					
15. Any official delinquency petition	.125*	.075*	.024	.073*	.079*	.005	.121*	.069*	.012	.074*	.033	-.021	-.207*	-.311*	--				
16. Any substantiated maltreatment, DCFS	.105*	.095*	.118*	.087*	.048	-.076*	.091*	.043	-.019	.057*	.128*	.059*	-.107*	.107*	.128*	--			
17. Any substantiated maltreatment, Court	.098*	.092*	.074*	.077*	.072*	-.058*	.088*	.061*	-.059*	.056*	.135*	.063*	-.062*	-.062*	.135*	.518*	--		
18. Any subst. maltreatment, DCFS/Court	.111*	.106*	.127*	.106*	.048	-.090*	.094*	.051	-.043	.066*	.135*	.066*	-.115*	-.115*	.135*	.890*	.729*	--	
19. Any subst. phys. abuse, DCFS/Court	.080*	.075*	.100*	.087*	.049	-.083*	.064*	.045	-.055*	.059*	.089*	.040	-.065*	-.065*	.089*	.728*	.668*	.805*	--
20. Any subst. neglect, DCFS/Court	.099*	.108*	.057*	.084*	.053	-.064*	.089*	.068*	-.034	.056*	.175*	.061*	-.119	-.119*	.175*	.729*	.701*	.812*	.503*

Table 3a. *Proportions of CLS Sample with Substantiated DCFS Report of Maltreatment by Age 18*

Factor	Total Sample N=1413	Mean	Gender		CPC Preschool		School Age		CPC Extended Intervention		
			Males	Females	Any	None	Any	None	4 to 6	1 to 4	0
Black	1411	10.7	9.7	11.5	8.2	15.1	9.7	12.0	6.5	12.8	14.0
Other	1411	4.1	1.9	6.8	1.6	8.8	1.9	6.7	2.7	--	10.0
Male	1411	9.1	--	--	7.8	11.3	10.2	7.7	7.3	11.2	8.7
Female	1411	11.3	--	--	7.7	18.5	8.3	15.4	5.3	13.0	18.8
Single-Parent Family	1371	11.9	10.5	13.4	9.0	17.5	10.4	14.5	7.1	13.7	17.0
Other Family Structure	1371	5.1	4.5	5.6	4.0	7.0	5.4	4.5	3.2	7.1	5.1
Mother Not H.S. Graduate	1365	12.9	10.8	15.1	9.0	19.0	10.9	15.4	6.6	15.6	17.3
Mother H.S. Graduate	1365	7.6	7.6	7.5	6.7	9.5	8.0	6.9	6.3	8.1	9.3
Mother Not Employed FT/PT	1308	10.8	10.7	10.9	7.6	17.2	9.6	12.5	6.1	12.5	16.1
Mother Employed FT/PT	1308	7.8	5.8	10.0	6.0	10.8	6.6	9.4	4.3	10.1	10.2
Mother Teen Parent < 18	1381	18.3	14.3	22.9	17.1	20.2	16.3	21.0	13.9	22.0	17.9
Mother Not Teen Parent < 18	1381	8.7	8.2	9.2	6.0	14.0	8.0	9.8	5.0	9.8	13.3
Four or More Children	1371	5.2	4.7	5.6	3.5	8.0	7.1	2.9	4.6	6.0	4.9
Less Than Four Children	1371	11.4	9.9	12.9	8.7	16.6	9.6	13.9	6.5	13.5	16.2
Free/Reduced Lunch	1401	10.9	9.9	11.7	8.6	15.2	10.0	12.1	7.3	12.2	14.6
No Free/Reduced Lunch	1401	7.3	6.3	8.7	4.1	13.1	5.3	10.1	1.1	12.5	10.0
60% K School Poverty	1411	9.9	8.7	11.0	7.3	14.8	8.1	12.2	6.0	10.9	14.8
< 60% K School Poverty	1411	11.2	10.5	12.1	9.2	14.4	12.5	9.4	7.1	16.0	10.3
AFDC Receipt	1401	12.4	11.3	13.5	9.6	17.6	11.0	14.4	7.6	14.5	17.3
No AFDC Receipt	1401	6.7	6.0	7.4	4.8	10.2	6.1	7.5	4.0	8.2	8.7
Four or More Risks	1411	11.3	10.2	12.2	8.5	16.4	10.1	12.9	7.1	12.4	16.2
Less Than Four Risks	1411	7.4	6.5	8.4	5.8	10.2	6.9	8.0	4.0	11.2	7.8
SEMAT16D < avg.	1385	12.5	11.9	13.6	9.0	17.9	12.1	12.9	8.2	14.3	15.2
SEMAT16D > avg.	1385	7.8	4.6	9.7	6.8	10.2	11.6	5.6	4.6	9.9	11.7
ITBS6 Read < 88 norms	1202	11.5	11.7	11.2	8.0	17.0	10.1	13.1	7.1	11.5	16.9
ITBS6 Read ≥ 88 norms	1202	8.4	5.6	10.4	7.6	10.5	9.4	6.7	6.4	12.6	6.6
ITBS8 Read < 88 norms	1337	12.4	10.7	14.6	9.6	16.7	11.2	13.9	7.9	13.8	15.9
ITBS8 Read ≥ 88 norms	1337	7.8	7.1	8.4	6.3	11.6	7.9	7.6	5.4	10.3	9.6
School mobility (yr. 4-8), ≥ 3	1352	21.6	19.2	25.0	21.4	21.7	21.8	21.4	18.2	23.5	21.2
School mobility (yr. 4-8), < 3	1352	9.1	8.1	9.9	6.9	13.5	8.4	10.0	5.8	11.0	12.0
Retained ≥ 1 grade	1411	14.1	12.9	16.3	12.0	16.7	13.9	7.9	12.8	13.3	16.1
Not retained	1411	8.8	7.1	10.1	6.5	13.7	14.2	10.2	4.7	11.6	12.2
Child welfare case history	1411	28.8	18.5	37.5	19.4	39.3	23.5	36.0	13.3	26.9	44.4
No child welfare case history	1411	9.4	8.8	10.0	7.4	13.2	8.6	10.5	6.0	11.3	11.9
Not H.S. Graduate	1327	15.0	13.6	17.5	12.1	19.1	12.5	18.2	8.6	17.2	19.3
H.S. Graduate	1327	8.1	6.0	9.6	6.1	12.4	7.8	8.5	5.3	10.0	10.3
Ever Incarcerated	1407	17.9	17.1	37.5	18.3	17.4	21.3	13.5	18.3	20.9	13.1
Never Incarcerated	1407	8.8	5.6	11.0	6.1	14.0	7.0	11.2	4.3	10.4	13.8

Note. Rates reported for substantiated maltreatment, age 4-17, except for race and gender (0-17). Four or more risks computed from imputed risk index. All other risk indicators are non-imputed.

Table 3b. *Proportions of CLS Sample with Substantiated Court Report of Maltreatment by Age 18*

Factor	Total Sample N=1411	Mean	Gender		CPC Preschool		School Age		CPC Extended Intervention		
			Males	Females	Any	None	Any	None	4 to 6	1 to 4	0
Black	1411	7.2	6.5	7.8	6.2	8.9	6.7	7.8	4.9	8.6	8.5
Other	1411	6.2	5.7	6.8	4.8	8.8	5.8	6.7	10.0	--	8.1
Male	1411	6.4	--	--	5.5	7.9	6.7	6.0	4.6	7.8	7.0
Female	1411	7.7	--	--	6.7	9.9	6.6	9.4	5.6	8.4	10.3
Single-Parent Family	1371	8.5	7.2	9.8	7.1	11.2	7.6	9.8	5.9	9.5	11.3
Other Family Structure	1371	2.8	3.9	1.9	3.5	1.7	3.8	1.5	3.2	3.5	1.3
Mother Not H.S. Graduate	1365	9.2	7.1	11.2	7.5	11.8	8.5	9.9	6.6	10.4	10.7
Mother H.S. Graduate	1365	5.1	6.0	4.4	5.1	5.3	5.0	5.3	4.1	5.8	6.2
Mother Not Employed FT/PT	1308	7.9	7.4	8.4	6.3	11.1	7.4	8.7	5.8	8.2	11.1
Mother Employed FT/PT	1308	4.2	4.1	4.3	4.0	4.5	3.7	4.9	2.7	5.7	4.7
Mother Teen Parent < 18	1381	11.5	11.1	11.9	11.6	11.2	11.9	11.0	10.1	15.0	7.1
Mother Not Teen Parent < 18	1381	6.4	5.5	7.2	5.2	8.6	5.7	7.3	4.4	6.7	9.2
Four or More Children	1371	3.9	3.8	4.0	2.1	6.8	3.9	3.8	2.3	3.6	6.6
Less Than Four Children	1371	7.9	7.0	8.8	7.1	9.4	7.2	8.8	5.9	9.0	9.4
Free/Reduced Lunch	1401	7.6	7.1	8.1	6.6	9.5	7.4	8.0	6.0	8.1	9.5
No Free/Reduced Lunch	1401	3.4	2.3	4.8	2.7	4.8	3.0	4.0	1.1	6.3	3.3
60% K School Poverty	1411	6.2	5.2	7.2	4.5	9.6	5.2	7.6	3.8	6.7	9.6
< 60% K School Poverty	1411	9.8	9.9	9.6	11.7	6.8	11.0	8.0	9.5	12.8	5.7
AFDC Receipt	1401	8.7	7.8	9.5	7.3	11.1	8.3	9.2	6.7	9.2	11.2
No AFDC Receipt	1401	4.0	3.8	4.3	3.6	4.8	3.7	4.4	2.5	5.4	4.3
Four or More Risks	1411	8.0	7.0	8.8	6.6	10.6	7.5	8.5	5.9	8.7	10.3
Less Than Four Risks	1411	4.7	5.0	4.5	4.9	4.4	4.2	5.5	3.3	6.4	4.9
SEMAT16D < avg.	1385	8.7	8.3	9.4	7.9	10.0	9.7	7.6	7.8	9.7	8.4
SEMAT16D > avg.	1385	5.2	2.9	6.5	4.4	7.1	3.7	7.9	3.0	6.1	8.8
ITBS6 Read < 88 norms	1202	7.5	7.5	7.6	7.5	7.6	7.3	7.8	7.1	7.3	8.4
ITBS6 Read ≥ 88 norms	1202	5.8	4.0	7.1	5.1	7.7	6.1	5.4	4.1	8.5	5.7
ITBS8 Read < 88 norms	1337	8.5	7.8	9.4	8.1	9.1	9.2	7.6	8.4	8.6	8.5
ITBS8 Read ≥ 88 norms	1337	5.5	4.2	6.4	4.4	8.1	4.9	6.4	3.2	7.6	7.4
School mobility (yr. 4-8), ≥ 3	1352	21.6	23.3	19.2	25.0	18.8	21.8	21.4	27.3	19.6	21.2
School mobility (yr. 4-8), < 3	1352	5.6	4.4	6.8	4.8	7.2	5.7	5.5	4.3	7.0	6.0
Retained ≥ 1 grade	1411	8.9	8.4	9.6	7.9	10.1	8.3	9.3	8.8	7.6	10.5
Not retained	1411	6.4	5.3	7.3	5.6	8.2	6.2	6.9	4.3	8.4	7.5
Child welfare case history	1411	23.7	18.5	28.1	19.4	28.6	17.7	32.0	13.3	19.2	38.9
No child welfare case history	1411	6.4	5.9	6.8	5.7	7.7	6.2	6.6	4.9	7.6	6.9
Not H.S. Graduate	1327	9.3	9.0	10.0	7.8	11.5	10.0	8.6	7.9	9.4	10.9
H.S. Graduate	1327	6.0	4.1	7.3	5.1	7.8	5.4	6.9	4.3	7.1	7.4
Ever Incarcerated	1407	11.9	25.0	11.4	11.2	12.5	13.1	10.4	11.3	12.8	11.5
Never Incarcerated	1407	6.2	7.5	4.3	8.3	5.2	5.5	7.2	4.3	7.2	8.0

Note. Rates reported for substantiated maltreatment, age 4-17, except for race and gender (0-17). Four or more risks computed from imputed risk index. All other risk indicators are non-imputed.

Table 3c. *Percent of CLS Sample* (N=1411) *With Substantiated Court or DCFS Report of Maltreatment by Age 18*

Factor	Total Sample N=1411	Mean	Gender		CPC Preschool		School Age		CPC Extended Intervention		
			Boys	Girls	Any	None	Any	None	4 to 6	1 to 4	0
Black	1411	12.9	11.7	13.9	10.6	17.1	11.3	15.0	8.3	15.4	16.3
Other	1411	8.2	7.5	9.1	4.8	14.7	5.8	11.1	8.1	--	16.7
Male	1411	11.4	--	--	9.7	14.3	11.4	11.4	8.8	13.1	12.8
Female	1411	13.6	--	--	10.6	19.8	10.4	18.1	7.7	16.1	20.0
Single-Parent Family	1371	14.7	13.0	16.4	11.7	20.3	12.2	18.1	9.3	16.7	20.2
Other Family Structure	1371	6.3	6.5	6.2	5.5	7.8	7.1	5.3	4.8	8.0	6.3
Mother Not H.S. Graduate	1365	16.2	13.8	18.6	12.6	21.8	13.6	19.3	9.7	19.0	20.4
Mother H.S. Graduate	1365	9.0	9.3	8.8	8.1	11.1	8.8	9.4	7.4	9.4	11.6
Mother Not Employed FT/PT	1308	13.2	13.0	13.3	9.9	19.7	11.5	15.7	8.3	14.9	18.9
Mother Employed FT/PT	1308	9.9	7.8	12.1	8.4	12.5	8.5	11.8	6.4	11.9	12.5
Mother Teen Parent < 18	1381	22.1	18.3	26.6	21.2	23.6	18.5	27.0	16.5	27.0	21.4
Mother Not Teen Parent < 18	1381	10.8	10.2	11.5	8.1	16.0	9.6	12.4	7.0	11.8	15.9
Four or More Children	1371	6.1	5.7	6.4	4.2	9.1	7.9	3.9	5.7	6.0	6.6
Less Than Four Children	1371	14.1	12.6	15.7	11.5	19.1	11.6	17.7	8.8	16.5	19.2
Free/Reduced Lunch	1401	13.2	12.4	13.9	10.9	17.4	11.9	14.9	9.5	14.5	17.2
No Free/Reduced Lunch	1401	8.6	6.3	11.5	5.4	14.3	6.0	12.1	2.2	13.8	11.7
60% K School Poverty	1411	11.7	10.4	13.0	9.0	17.0	9.3	15.0	7.2	13.1	17.2
< 60% K School Poverty	1411	15.1	14.4	15.9	14.1	16.7	16.0	13.8	11.9	19.2	13.8
AFDC Receipt	1401	14.8	13.6	15.9	11.9	20.3	12.7	17.8	9.6	16.9	20.4
No AFDC Receipt	1401	8.4	7.5	9.3	6.8	11.2	7.8	9.2	6.0	9.8	10.1
Four or More Risks	1411	13.9	12.8	14.9	11.2	18.9	11.9	16.6	9.4	15.1	19.2
Less than Four Risks	1411	9.0	8.0	10.1	7.4	11.7	8.3	9.8	5.3	12.8	9.7
SEMAT16D < avg.	1385	15.4	14.5	16.7	12.2	20.3	15.4	15.5	11.5	17.0	17.8
SEMAT16D > avg.	1385	9.4	5.9	11.4	8.4	11.7	6.6	14.1	5.6	11.8	13.9
ITBS6 Read < 88 norms	1202	14.2	14.4	13.9	11.4	18.8	12.0	16.8	10.2	14.1	19.5
ITBS6 Read ≥ 88 norms	1202	10.1	6.8	12.3	8.9	12.7	10.7	8.9	7.4	14.6	9.0
ITBS8 Read < 88 norms	1337	15.5	13.1	18.5	12.9	19.4	14.3	16.9	11.6	16.4	18.8
ITBS8 Read ≥ 88 norms	1337	9.3	8.8	9.6	7.7	13.1	8.6	10.4	6.3	12.1	11.8
School mobility (yr. 4-8), ≥ 3	1352	29.6	28.8	30.8	30.4	29.0	27.7	31.4	31.8	27.4	30.8
School mobility (yr. 4-8), < 3	1352	10.7	9.3	12.0	8.7	14.7	9.9	11.8	7.4	13.0	13.1
Retained ≥ 1 grade	1411	17.2	15.7	20.0	15.3	19.6	16.1	18.1	15.7	16.5	19.4
Not retained	1411	10.8	9.1	12.2	8.6	15.5	9.5	13.0	6.6	13.8	14.6
Child welfare case history	1411	33.9	25.9	40.6	25.8	42.9	26.5	44.0	13.3	34.6	50.0
No child welfare case history	1411	11.6	10.9	12.4	9.6	15.4	10.3	13.5	8.1	13.5	14.4
Not H.S. Graduate	1327	18.0	16.1	21.3	14.5	23.0	15.4	21.2	12.1	18.9	23.5
H.S. Graduate	1327	9.9	7.6	11.6	8.3	13.4	9.2	11.0	6.9	12.3	11.8
Ever Incarcerated	1407	21.6	21.0	37.5	20.8	22.5	23.0	19.8	21.1	22.1	21.3
Never Incarcerated	1407	10.9	7.2	13.4	8.5	15.5	8.7	13.8	6.2	13.1	15.2

Note. Rates reported for substantiated maltreatment, age 4-17, except for race and gender (0-17). Four or more risks computed from imputed risk index. All other risk indicators are non-imputed.

Table 4a

Adjusted Means and Differences for CPC Preschool and CPC School-Age Groups for DCFS Substantiated Abuse and Neglect

Outcome measure DCFS (n=1411)	Preschool group				School-age group			
	Preschool group	Comparison group	Difference	p-value	School-age group	Comparison group	Difference	p-value
Any indicated report of abuse, %								
Age 4-17, IFR	3.6	6.2	-2.6	.036	4.8	3.9	0.9	.434
Age 4-17, IFR + S	2.5	6.2	-3.7	.012	4.1	2.8	1.3	.269
Age 4-17, FR	4.2	6.9	-2.7	.043	5.5	4.4	1.1	.394
Age 4-17, FR + S	3.0	6.9	-3.9	.013	4.7	3.3	1.4	.251
Any indicated report of neglect, %								
Age 4-17, IFR	3.6	8.4	-4.8	.000	5.1	4.8	0.3	.788
Age 4-17, IFR + S	3.0	8.9	-5.9	.000	4.7	4.5	0.2	.907
Age 4-17, FR	4.2	9.2	-5.0	.000	5.8	5.3	0.5	.721
Age 4-17, FR + S	3.4	9.5	-6.1	.000	5.2	5.0	0.2	.803
Any indicated report of abuse or neglect, %								
Age 4-17, IFR	6.7	12.8	-6.1	.000	8.5	8.5	--	.996
Age 4-17, IFR + S	5.9	13.1	-7.2	.001	8.0	7.7	0.3	.864
Age 4-17, FR	7.2	13.6	-6.4	.000	9.1	9.0	0.1	.944
Age 4-17, FR + S	6.2	13.7	-7.5	.001	8.4	8.5	-0.1	.969
Age 4-17, FR + S	**6.9**	**14.2**	**-7.3**	**.001**	**9.7**	**8.9**	**0.8**	**.676**

Note. The bold model indicates estimates reported in *Child Development*. All coefficients are from probit regression analysis transformed to marginal effects. All models are adjusted for sex of child, race/ethnicity, earlier/later program participation and child protection case histories prior to CPC preschool participation (Age 0-3). IFR indicates adjustments for the 8 individual indicators of family risk. IFR + S indicates adjustments for the 8 indicators of family risk and program sites. FR indicates adjustments for the family risk index only. FR + S indicates adjustments for the family risk index and program sites. Extended models are also adjusted for kindergarten achievement.

Table 4a

Adjusted Means and Differences for CPC Extended Groups for DCFS Substantiated Abuse and Neglect

Outcome measure DCFS (n=1411)	Extended group				Extended group			
	4 - 6 years group	1-3 years group	Difference	p-value	4 - 6 years group	0 - 3 years group	Difference	p-value
Any indicated report of abuse, %								
Age 4-17, IFR	3.7	4.9	-1.2	.328	3.5	5.2	-1.7	.138
Age 4-17, IFR + S	2.8	4.2	-1.4	.210	2.7	4.4	-1.7	.137
Age 4-17, FR	4.1	5.7	-1.6	.244	3.9	5.9	-2.0	.110
Age 4-17, FR + S	3.2	4.9	-1.7	.163	3.1	5.0	-1.9	.104
Any indicated report of neglect, %								
Age 4-17, IFR	3.1	6.4	-3.3	.012	3.0	6.5	-3.5	.004
Age 4-17, IFR + S	3.0	5.9	-2.9	.025	3.2	6.4	-3.2	.020
Age 4-17, FR	3.6	7.1	-3.5	.013	3.5	7.2	-3.7	.004
Age 4-17, FR + S	3.4	6.4	-3.0	.033	3.3	6.6	-3.3	.016
Any indicated report of abuse or neglect, %								
Age 4-17, IFR	6.0	10.4	-4.4	.011	5.8	10.7	-4.9	.002
Age 4-17, IFR + S	5.4	10.0	-4.6	.009	5.3	10.0	-4.7	.006
Age 4-17, FR	6.3	11.1	-4.8	.006	6.1	11.3	-5.2	.001
Age 4-17, FR + S	5.6	10.5	-4.9	.005	5.5	10.6	-5.1	.003
Age 4-17, FR + S	**5.8**	**11.3**	**-5.5**	**.003**	**--**	**--**	**--**	**--**

Note. The bold model indicates estimates reported in *Child Development*. All coefficients are from probit regression analysis transformed to marginal effects. All models are adjusted for sex of child, race/ethnicity, earlier/later program participation and child protection case histories prior to CPC preschool participation (Age 0-3). IFR indicates adjustments for the 8 individual indicators of family risk. IFR + S indicates adjustments for the 8 indicators of family risk and program sites. FR indicates adjustments for the family risk index only. FR + S indicates adjustments for the family risk index and program sites. Extended models are also adjusted for kindergarten achievement.

Table 4b

Adjusted Means and Differences for CPC Preschool and CPC School-Age Groups for Court Substantiated Abuse and Neglect

Outcome measure Court (n=1411)	Preschool group				School-age group			
	Preschool group	Comparison group	Difference	p-value	School-age group	Comparison group	Difference	p-value
Any indicated report of abuse, %								
Age 4-17, IFR	3.6	4.3	-0.7	.548	4.1	3.6	0.5	.640
Age 4-17, IFR + S	2.8	4.5	-1.7	.199	3.2	3.4	-0.2	.877
Age 4-17, FR	4.3	5.2	-0.9	.490	5.0	4.2	0.8	.528
Age 4-17, FR + S	3.4	4.9	-1.5	.304	4.0	3.7	0.3	.780
Any indicated report of neglect, %								
Age 4-17, IFR	3.0	6.2	-3.2	.008	4.0	3.6	0.4	.687
Age 4-17, IFR + S	2.1	6.5	-4.4	.001	3.4	2.9	0.5	.625
Age 4-17, FR	3.5	6.8	-3.3	.012	4.8	4.1	0.7	.558
Age 4-17, FR + S	2.5	7.2	-4.7	.001	3.8	3.4	0.4	.702
Any indicated report of abuse or neglect, %								
Age 4-17, IFR	5.2	7.0	-1.8	.203	5.6	6.0	-0.4	.750
Age 4-17, IFR + S	3.6	8.1	-4.5	.006	4.3	5.8	-1.5	.259
Age 4-17, FR	5.9	7.7	-1.8	.220	4.7	6.6	-1.9	.891
Age 4-17, FR + S	4.2	8.4	-4.2	.013	5.0	6.1	-1.4	.424
Age 4-17, FR + S	**5.0**	**10.5**	**-5.5**	**.001**	**6.1**	**7.9**	**-1.8**	**.169**

Note. The bold model indicates estimates reported in *Child Development*. All coefficients are from probit regression analysis transformed to marginal effects. All models are adjusted for sex of child, race/ethnicity, earlier/later program participation and child protection case histories prior to CPC preschool participation (Age 0-3). IFR indicates adjustments for the 8 individual indicators of family risk. IFR + S indicates adjustments for the 8 indicators of family risk and program sites. FR indicates adjustments for the family risk index only. FR + S indicates adjustments for the family risk index and program sites. Extended models are also adjusted for kindergarten achievement.

Table 4b

Adjusted Means and Differences for CPC Extended Groups for Court Substantiated Abuse and Neglect

Outcome measure Court (n=1411)	Extended group				Extended group			
	4 - 6 years group	1-3 years group	Difference	p-value	4 - 6 years group	0 - 3 years group	Difference	p-value
Any indicated report of abuse, %								
Age 4-17, IFR	2.9	4.6	-1.7	.128	3.0	4.4	-1.4	.175
Age 4-17, IFR + S	2.3	4.1	-1.8	.092	2.2	4.0	-1.8	.076
Age 4-17, FR	3.4	5.3	-1.9	.116	3.6	5.2	-1.6	.172
Age 4-17, FR + S	2.8	4.7	-1.9	.108	2.8	4.6	-1.8	.111
Any indicated report of neglect, %								
Age 4-17, IFR	2.9	4.6	-1.7	.136	2.7	5.0	-2.3	.033
Age 4-17, IFR + S	2.5	3.9	-1.4	.196	2.2	4.2	-2.0	.047
Age 4-17, FR	3.4	5.3	-1.9	.131	3.2	5.6	-2.4	.041
Age 4-17, FR + S	2.8	4.4	-1.6	.174	2.5	4.8	-2.3	.038
Any indicated report of abuse or neglect, %								
Age 4-17, IFR	4.4	6.6	-2.2	.113	4.4	6.7	-2.3	.067
Age 4-17, IFR + S	3.6	5.9	-2.3	.076	3.3	6.2	-2.9	.021
Age 4-17, FR	5.1	7.5	-2.4	.112	5.0	7.4	-2.4	.078
Age 4-17, FR + S	4.1	6.5	-2.4	.087	3.8	6.7	-2.9	.029
Age 4-17, FR + S	**3.6**	**6.9**	**-3.3**	**.028**	**--**	**--**	**--**	**--**

Note. The bold model indicates estimates reported in *Child Development*. All coefficients are from probit regression analysis transformed to marginal effects. All models are adjusted for sex of child, race/ethnicity, earlier/later program participation and child protection case histories prior to CPC preschool participation (Age 0-3). IFR indicates adjustments for the 8 individual indicators of family risk. IFR + S indicates adjustments for the 8 indicators of family risk and program sites. FR indicates adjustments for the family risk index only. FR + S indicates adjustments for the family risk index and program sites. Extended models are also adjusted for kindergarten achievement.

Table 4c

Adjusted Means and Differences for CPC Preschool and School-Age Groups for DCFS/Court Substantiated Abuse and Neglect

Outcome measure Court + DCFS (n =1411)	Preschool group				School-age group			
	Preschool group	Comparison group	Difference	p-value	School-age group	Comparison group	Difference	p-value
Any indicated report of abuse, %								
Age 4-17, IFR	6.8	9.8	-3.0	.061	7.6	7.0	0.6	.710
Age 4-17, IFR + S	5.4	10.2	-4.8	.017	7.1	6..3	0.8	.620
Age 4-17, FR	6.9	10.3	-3.4	.046	8.3	7.6	0.7	.652
Age 4-17, FR + S	5.9	10.7	-4.8	.020	7.8	6.7	1.1	.512
Any indicated report of neglect, %								
Age 4-17, IFR	5.0	10.8	-5.8	.001	6.5	6.8	-0.3	.845
Age 4-17, IFR + S	4.0	11.8	-7.8	.001	5.6	6.6	-1.0	.531
Age 4-17, FR	5.7	11.8	-6.1	.001	7.5	7.5	0.0	.988
Age 4-17, FR + S	6.6	12.4	-7.8	.001	6.4	7.0	-0.6	.727
Any indicated report of abuse or neglect, %								
Age 4-17, IFR	9.2	14.3	-5.1	.007	10.0	11.7	-1.7	.349
Age 4-17, IFR + S	7.7	15.3	-7.6	.002	9.0	11.2	-2.0	.331
Age 4-17, FR	8.9	15.4	-5.5	.005	10.9	12.5	-1.6	.408
Age 4-17, FR + S	8.3	16.0	-7.7	.001	9.8	11.8	-2.0	.325
Age 4-17, FR + S	**9.9**	**17.4**	**-7.5**	**.001**	**12.0**	**13.3**	**-1.3**	**.530**

Note. The bold model indicates estimates reported in *Child Development*. All coefficients are from probit regression analysis transformed to marginal effects. All models are adjusted for sex of child, race/ethnicity, earlier/later program participation and child protection case histories prior to CPC preschool participation (Age 0-3). IFR indicates adjustments for the 8 individual indicators of family risk. IFR + S indicates adjustments for the 8 indicators of family risk and program sites. FR indicates adjustments for the family risk index only. FR + S indicates adjustments for the family risk index and program sites. Extended models are also adjusted for kindergarten achievement.

Table 4c

Adjusted Means and Differences for CPC Extended Groups for Combined DCFS/Court Substantiated Abuse and Neglect

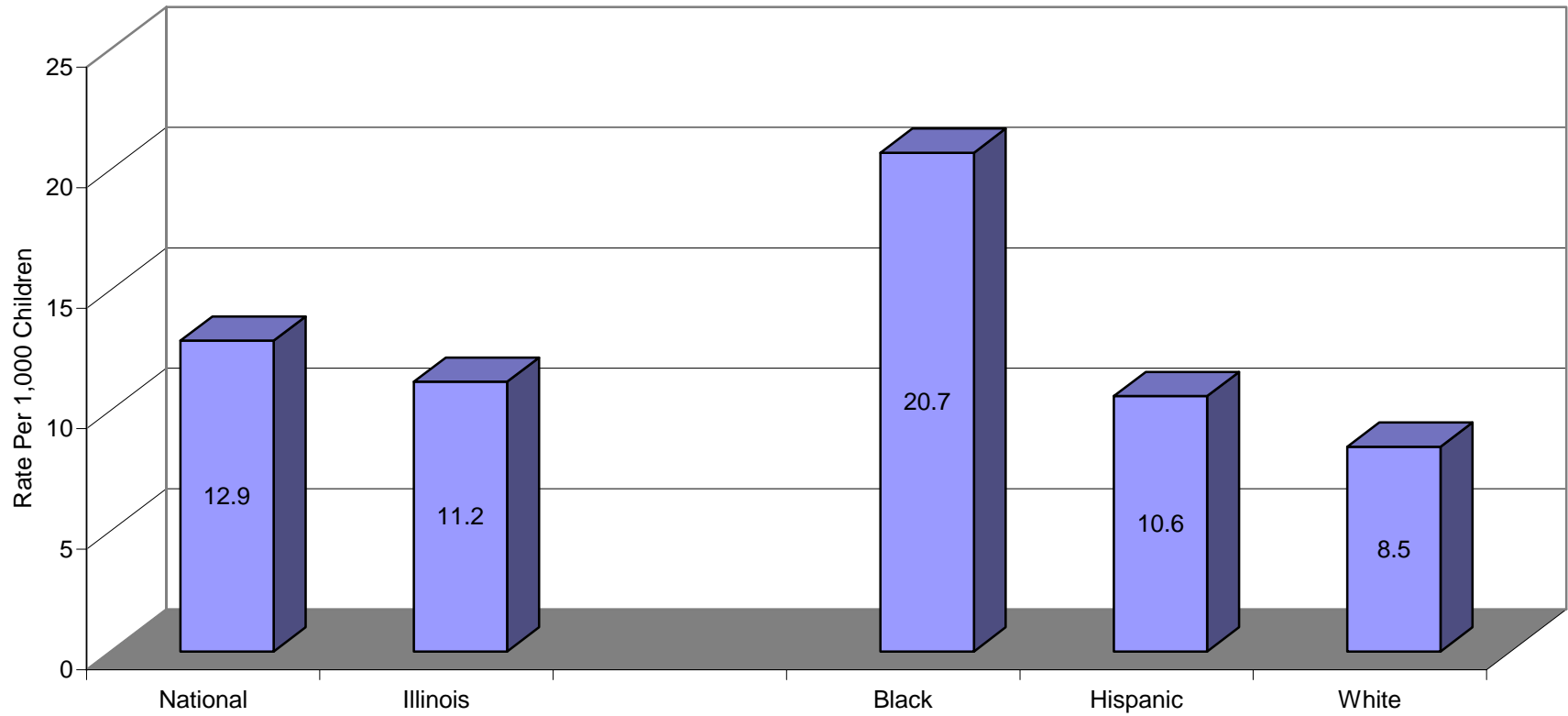| Outcome measure Court + DCFS (n =1411)	Extended group				Extended group			
	4 - 6 years group	1-3 years group	Difference	p-value	4 - 6 years group	0 - 3 years group	Difference	p-value
Any indicated report of abuse, %								
Age 4-17, IFR	5.6	8.6	-3.0	.055	5.5	8.7	-3.2	.030
Age 4-17, IFR + S	4.9	8.4	-3.4	.035	4.9	8.4	-3.5	.027
Age 4-17, FR	6.0	9.5	-3.5	.034	5.9	9.5	-3.6	.019
Age 4-17, FR + S	5.3	9.0	-3.7	.025	5.3	9.0	-3.7	.005
Any indicated report of neglect, %								
Age 4-17, IFR	4.4	8.7	-4.3	.002	4.7	8.2	-3.5	.021
Age 4-17, IFR + S	3.9	8.0	-4.1	.005	4.2	7.5	-3.3	.030
Age 4-17, FR	5.0	9.5	-4.5	.003	5.4	8.1	-3.7	.023
Age 4-17, FR + S	4.5	8.6	-4.1	.008	4.9	8.2	-3.3	.041
Any indicated report of abuse or neglect, %								
Age 4-17, IFR	8.0	12.7	-4.7	.015	7.7	13.0	-5.3	.003
Age 4-17, IFR + S	7.3	12.2	-4.9	.013	7.1	12.4	-5.3	.005
Age 4-17, FR	8.6	13.8	-5.2	.009	8.3	14.0	-5.7	.002
Age 4-17, FR + S	7.6	12.9	-5.3	.008	7.4	13.1	-5.7	.003
Age 4-17	**8.4**	**14.4**	**-6.0**	**.004**	**--**	**--**	**--**	**--**

Note. The bold model indicates estimates reported in *Child Development*. All coefficients are from probit regression analysis transformed to marginal effects. All models are adjusted for sex of child, race/ethnicity, earlier/later program participation and child protection case histories prior to CPC preschool participation (Age 0-3). IFR indicates adjustments for the 8 individual indicators of family risk. IFR + S indicates adjustments for the 8 indicators of family risk and program sites. FR indicates adjustments for the family risk index only. FR + S indicates adjustments for the family risk index and program sites. Extended models are also adjusted for kindergarten achievement.
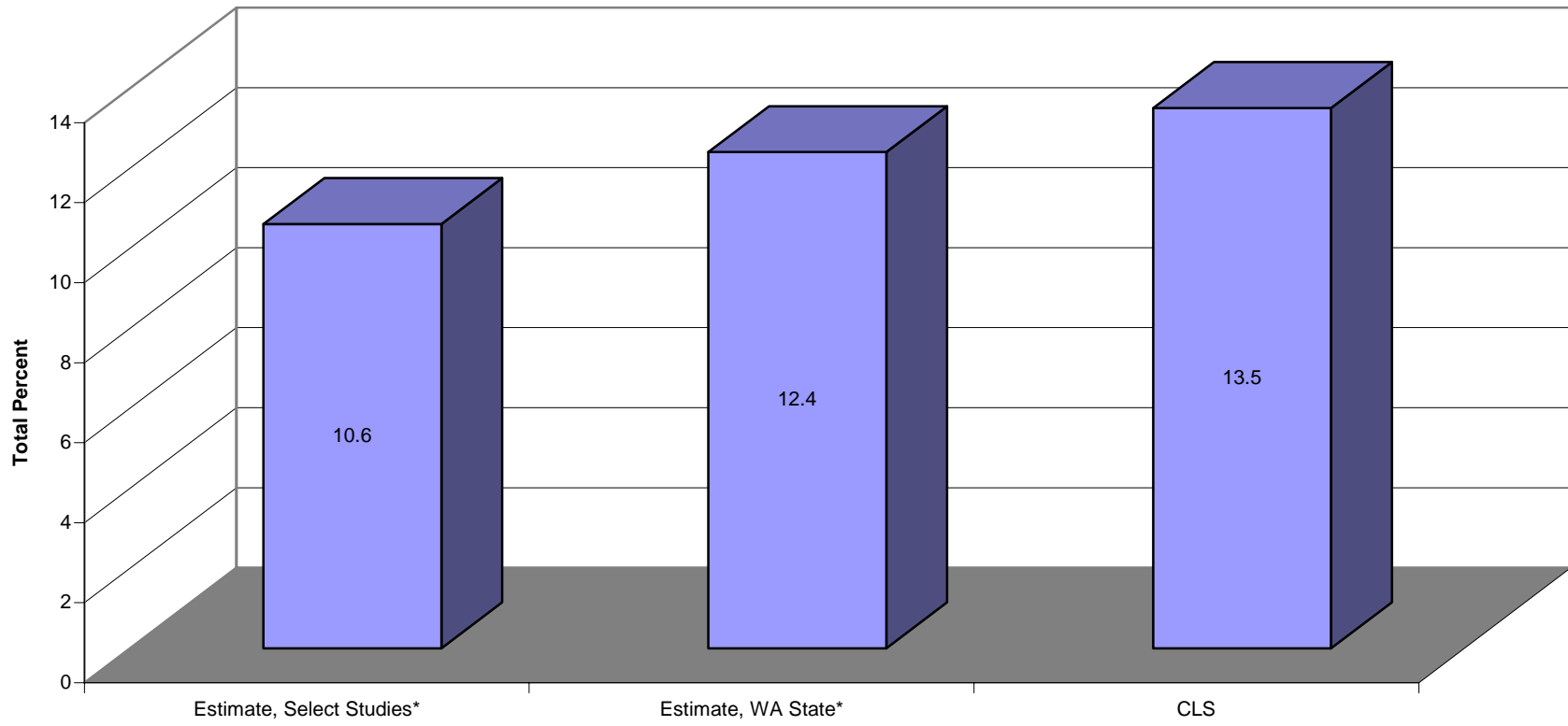
Figure 1 **Incidence of Maltreatment for Selected Groups, 1998 (NCANDS*)**

*Note. Rates are based on the National Child Abuse and Neglect Data System (NCANDS).

Figure 2

Lifetime Prevalence of Substantiated Maltreatment

*Note. Estimates are derived from a meta-analytic review conducted for The Washington
State Institute for Public Policy (Aos, Lieb, Mayfield, Miller, & Penucci, 2004).