Alterable Predictors of Educational Attainment, Income, and Crime

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Background

- Significance of Young Adulthood
- Successful Adaptation Across Multiple
 Outcomes
- Antecedents of Functioning

Research Questions

- What are the rates of educational attainment, crime, and income status for the study sample?
- · How are they correlated with each other?
- What common explanatory factors are associated with the outcomes?

The Present Study

- Prospective longitudinal data
- Comprehensive predictor framework
- Multiple outcomes across domains

Exploratory Model

- Sociodemographic factors
- Early childhood program participation
- · Early adjustment and family functioning
- School commitment factors
- · School-based functioning
- High school experiences

Characteristics of the Original and Study Samples in the CLS

Characteristics	Original sample (N= 1,539)	Education/ Income Sample (N =1,389)	Educational Attainment Sample (N =1,368)	Income sample (N = 1,249)	Adult crime sample (N = 1,418)
Percent black	93.0	93.2	93.4	93.0	93.2
Percent female	50.2	50.8	51.0	54.4* (+)	51.0* (+)
Percent eligible for free lunch	83.0	83.0	83.0*	83.0	83.0
Percent mother did not complete HS by child's age 3	54.0	54.0	54.0	54.0	54.0
Percent single parent by child's age 3	76.0	76.0	76.0	75.0	76.0
Percent 4 or more children in household by child's age 3	17.0	18.0	17.0	18.0	18.0
Percent mother was teen (<18) at child's birth	17.0	17.0	17.0	17.0	17.0
Percent mother unemployed by child's age 3	63.0	63.0	64.0* (+)	63.0	63.0
Percent TANF/AFDC participation	62.0	62.0	63.0	61.0* (-)	62.0
Percent any child welfare case histories by child's age 3	4.1	4.0	3.9	4.1	4.1
ITBS word analysis in K ¹	63.75	63.68	63.71	64.1* (+)	63.87

corresponding attrition sample. * p < .05 (+) indicates mean is higher for sample group (-) indicates mean is lower for sample group

Outcomes

- Educational Attainment by Age 23
 - High school completion
 - Highest grade completed
 - Any college attendance
 - 4-year college attendance
- Employment and Income by Age 24
 - Quarterly income = \$3,000
 - Ever attended college or reported income for at least 4 quarters
- Crime
 - Any incarceration
 - Any arrest conviction _

Explanatory Variables

Variables	Measures
Sociodemographic Factors	
Race	1=Black, 0=Others
Sex	1=Female. 0=Male
Eligible for free lunch	1=Yes, 0 =No
Mother not a HS completer	1=Yes, not completed HS
Single parent status	1=Yes, 0 =No
If had more than 4 children	1=Yes, 0 =No
Mother < 18 years at child's birth	1=Yes, 0 =No
Mother unemployment status	1=Yes, 0 =No
TANF/AFDC participation	1=Yes, 0 =No
Any child welfare history by age 4	1=Yes, 0 =No
If missing 5 or more variables	1=Yes, 0 =No
CPC Program Participation	1=Yes, 0 =No
Preschool participation	1=Yes, 0 =No
Follow-on participation	1=Yes, 0 =No

Explanatory Variables

Early Adjustment and Family Functioning

Word analysis (age 6) Classroom adjustment (ages 7-12) Cognitive perceived competence (ages 9-12) Trouble making behavior (ages 9-12) Parent involvement (ages 7-12) Any child abuse/neglect (ages 4-17) Peer social skills (ages 12-13)

School commitment

Parent expectation for child's education If student expects to go to college Days of absence per year by age 12 ITBS scores, range: 19-99 Score, range: 7-30 Z score, range: -3.03-1.86 Z score, range: -1.73-2.65 Times rating above average, range: 0-6 1=Yes, 0 =No Score, range: 5-25

Years of education, range: 10-16 1=Yes, 0=No

Days, range: 2-17

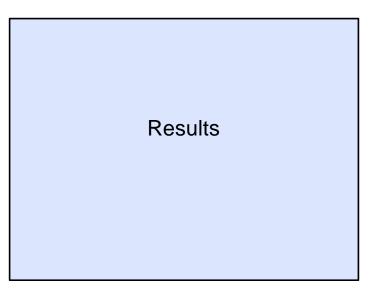
Explanatory Variables

School - Based Factors

Ever retained (ages 7-14)	1=Yes, 0 =No
Ever placed in special education (ages 7-14)	1=Yes, 0 =No
If moved once (ages 10-14) (1=yes)	1=Yes, 0 =No
If moved twice (ages 10-14)	1=Yes, 0 =No
If moved three times (ages 10-14)	1=Yes, 0 =No
If ever enrolled in magnet schools (ages 10-14)	1=Yes, 0 =No
ITBS reading scores (age 14)	ITBS score, range: 77-212
High School Experiences	
Attended magnet high school (ages 15-18)	1=Yes, 0 =No
Attended private high school (ages 15-18)	1=Yes, 0 =No
Attended high school outside of Chicago	1=Yes, 0 =No
Any juvenile arrest by age 18	1=Yes, 0 =No

Data Analysis

- Linear regression
 - Highest grade completed
- Logistic regression
 - Dichotomous dependent variables

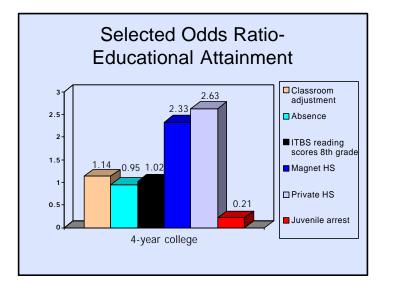


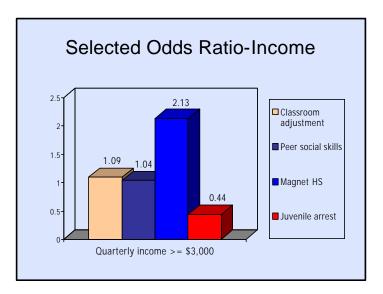
Overall Rates

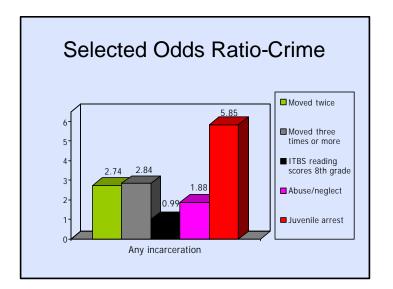
Outcomes	Mean or %	
Highest grade completed by age 23	11.63	
High school completion by age 23	67.0	
Any college attendance by age 23	30.0	
4-year college attendance by age 23	13.7	
Attended college or employed at least 4 quarters since age 22	51.1	
Quarterly income = \$3,000	44.6	
Any incarceration by age 24	16.1	
Any arrest conviction by age 24	22.6	

Correlations

Variable	1	2	3
1. Ever attended 4-year college			
2. Highest grade completed	.532*		
3. Quarterly income greater/equal to \$3,000	.126*	.241*	
4. Any incarceration	181*	363*	273*
* p < .001			









- ITBS reading scores at age 14
- Attendance in magnet high school
- Juvenile Arrest



- Generalizability
- Variables not included in the model
- Hierarchical regressions

Implications

- Social Policy
 - Identification of factors related to 3 domains
 - Design of effective prevention or intervention program
- Educators and other professionals
 - Effective intervention factors

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- For more information about the Chicago Longitudinal Study, visit:
 - http://www.waisman.wisc.edu/cls/