Appendix Tables and Figures

Table A1 - Temporal Structure of Time-varying Covariates and Treatment for 2005-2006 Middle School Cohort

Calendar Year	School Year	Term	Time (t)	Grade	Covariates	Treatment	Outcome
	2005-2006	Fall		6			
2006		Spring	1		L_0		
	2006-2007	Fall	1	7		A_0	
2007		Spring	2		L_1		
	2007-2008	Fall	2	8		A_1	
2008		Spring	3		L_2		
	2008-2009	Fall	3	9		A_2	
2009		Spring	4		L_3		
	2009-2010	Fall	4	10		A_3	
2010		Spring	5		L_4		
	2010-2011	Fall	5	11		A_4	
2011		Spring	6		L_5		
	2011-2012	Fall	6	12		A_5	
2012		Spring					
	2012-2013	Fall					
2013		Spring					Y

Note: The grade column refers to on-time progress.

Table A2 – Marginal Structural Models: Effect of Cumulative, Long-Term Exposure to Neighborhood Police Stops on High School graduation by Race/Ethnicity (continuous treatment)

	White	Black	Latino
Cumulative SQF Exposure (logged)	-0.016**	-0.038***	-0.017***
	(0.005)	(0.007)	(0.005)
Student and Neighborhood Characteristics	✓	✓	✓
Cohort Fixed Effect	✓	✓	✓
Precinct Fixed Effect	✓	✓	✓
Observations	36,396	85,490	109,291

*P < 0.05, **P < 0.01, ***P < 0.001

Table A3 –Effect of Cumulative Exposure to Neighborhood Low-Level Arrests on HS graduation

	White	Black	Latino
Cumulative SQF Exposure (Ref.: Very low)			
Low	-0.013**	-0.029***	-0.028***
	(0.005)	(0.005)	(0.005)
Average	-0.013	-0.053***	-0.044***
	(0.007)	(0.006)	(0.006)
High	-0.031**	-0.073***	-0.048***
	(0.010)	(0.007)	(0.006)
Very High	-0.029*	-0.062***	-0.042***
	(0.012)	(0.008)	(0.007)
Student and Neighborhood Characteristics	✓	✓	✓
Cohort Fixed Effect	✓	✓	✓
Precinct Fixed Effect	✓	✓	✓
Observations	36,396	85,490	109,291

*P < 0.05, **P < 0.01, ***P < 0.001

Table A4 – Effect of Cumulative Exposure compared to Middle and High School Exposure (White and Latino Students)

	White			Latino		
	Cum. Exposure	MS Exposure	HS Exposure	Cum. Exposure	MS Exposure	HS Exposure
Cumulative SQF Exposure (Ref.: Very low)						
Low	-0.012*	-0.007	0.000	-0.024***	-0.011	-0.013*
	(0.005)	(0.005)	(0.005)	(0.005)	(0.008)	(0.006)
Average	-0.012	-0.004	-0.007	-0.041***	-0.013	-0.022***
	(0.006)	(0.006)	(0.006)	(0.006)	(0.008)	(0.007)
High	-0.021*	-0.011	-0.015	-0.049***	-0.019*	-0.029***
	(0.010)	(0.008)	(0.009)	(0.007)	(0.009)	(0.007)
Very High	-0.034	-0.022	-0.005	-0.047***	-0.017	-0.028**
	(0.018)	(0.015)	(0.015)	(0.010)	(0.010)	(0.009)
Student and Neighborhood Characteristics	✓	✓	✓	✓	✓	✓
Cohort Fixed Effect	✓	✓	✓	✓	✓	✓
Precinct Fixed Effect	✓	✓	✓	✓	✓	✓
Observations	36,396	36,396	36,396	109,291	109,291	109,291

Note: For white students, the difference in effect size between cumulative and middle or high school exposure is not statistically significant for all levels of exposure. For Latino students, the difference in effect size between cumulative and middle or high school exposure is statistically significant at the 0.05 level for "Average" and "High" exposure compared to "Very Low" exposure.

*P < 0.05, **P < 0.01, ***P < 0.001

Table A5 – Assignment probabilities under different interventions

Neighborhood Police Stops	Observed	Intervention 1	2	3	4
Black					
Very Low (1st quintile)	12.8%	100%	51.4%	13.3%	24.6%
Low (2nd quintile)	17.2%	0%	27.6%	18.8%	26.2%
Average (3rd quintile)	21.6%	0%	13.0%	21.7%	22.9%
High (4th quintile)	23.5%	0%	5.3%	22.3%	17.4%
Very High (5th quintile)	24.9%	0%	2.8%	23.9%	8.9%
White					
Very Low (1st quintile)	51.4%	100%	51.4%	44.8%	64.3%
Low (2nd quintile)	27.6%	0%	27.6%	30.0%	23.2%
Average (3rd quintile)	13.0%	0%	13.0%	14.9%	8.3%
High (4th quintile)	5.3%	0%	5.3%	6.9%	3.3%
Very High (5th quintile)	2.8%	0%	2.8%	3.4%	0.9%
Latino					
Very Low (1st quintile)	15.3%	100%	51.4%	16.4%	28.6%
Low (2nd quintile)	19.6%	0%	27.6%	20.1%	25.5%
Average (3rd quintile)	21.1%	0%	13.0%	20.6%	20.8%
High (4th quintile)	22.1%	0%	5.3%	20.0%	16.2%
Very High (5th quintile)	21.9%	0%	2.8%	22.9%	8.8%

Note: "Proportion gap closed" is defined as (Observed - Counterfactual) / Observed.