

## Supplementary Online Content

Peterson RL, George KM, Barnes LL, et al. Association of timing of school desegregation in the United States with late-life cognition in the Study of Healthy Aging in African Americans (STAR) cohort. *JAMA Netw Open*. 2021;4(10):e2129052. doi:10.1001/jamanetworkopen.2021.29052

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This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable 1.** States Included in the Southern Birth Region, Based on US Census Classifications

Alabama	Kentucky	South Carolina
Arkansas	Louisiana	Tennessee
Delaware	Maryland	Texas
District of Columbia	Mississippi	Virginia
Florida	North Carolina	West Virginia
Georgia	Oklahoma	

**eTable 2.** Demographic Comparison of Participants Included in the Primary Analyses, and Those Excluded for Missing Information on School Desegregation at 3 or More Time Points

	Primary Analytic Sample (699)	Missing School Info (44)	p-value test of difference
Age	68.5 (8.6)	72.5 (9.8)	0.002*
Female	484 (69.2)	31 (70.5)	0.87†
<b><u>Highest Education, mean (SD)</u></b>	14.5 (2.4)	12.9 (2.8)	<0.001*
Grade school	0	3 (6.12%)	<0.001 †
Some High School	6 (0.9%)	10 (20.4%)	
High School/GED	102 (14.6%)	11 (22.5%)	
Tech/Trade School	27 (3.9%)	4 (8.2%)	
Some College	310 (44.4%)	11 (22.5%)	
College	124 (17.7%)	6 (12.2%)	
Graduate School	130 (18.6%)	4 (8.2%)	
Executive Function	0.04 (.97)	-0.35 (1.3)	0.01*
Verbal Episodic Memory	0.04 (0.98)	-0.45 (1.12)	<0.001*
Semantic Memory	0.05 (0.97)	-0.58 (1.16)	<0.001*
Southern Birth State	257 (36.8%)	22 (50%)	0.08†

\*One-way ANOVA; †  $\chi^2$  test of significance

**eTable 3.** Linear Regression Coefficients for the Association Between Segregated/Integrated School Attendance Experience or Missing School Information and  $z$  Standardized Late-Life Cognitive Domains in STAR. Models control for age, gender, participant education and birth region.

	<b>Executive Function</b>	<b>Semantic Memory</b>	<b>Verbal Episodic Memory</b>
	<b><math>\beta</math> ( 95% CI)</b>	<b><math>\beta</math> ( 95% CI)</b>	<b><math>\beta</math> ( 95% CI)</b>
Never attended integrated schools	ref.	ref.	ref.
Only attended integrated schools	0.13 (-0.06 - 0.32)	0.34 (0.14 - 0.54)	0.00 (-0.20 - 0.21)
Integrated between 1 <sup>st</sup> and 6 <sup>th</sup> grades	0.34 (0.08 - 0.61)	0.43 (0.15 - 0.72)	0.07 (-0.22 - 0.35)
Integrated between 6 <sup>th</sup> and 9 <sup>th</sup> grades	-0.1 (-0.37 - 0.17)	-0.01 (-0.30 - 0.28)	-0.04 (-0.33 - 0.25)
Integrated between 9 <sup>th</sup> and 12 <sup>th</sup> grades	0.06 (-0.26 - 0.39)	0.21 (-0.14 - 0.56)	0.27 (-0.07 - 0.62)
From integrated to segregated schools	0.06 (-0.29 - 0.40)	0.54 (0.16 - 0.91)	0.08 (-0.29 - 0.45)
Missing school segregation information	0.19 (-0.09 - 0.47)	0.00 (-0.30 - 0.30)	-0.14 (-0.45 - 0.16)

**eTable 4.** Linear Regression Coefficients for the Association Between Segregated/Integrated School Attendance Experience and  $z$  Standardized Late-Life Cognitive Domains in STAR. Models control for age, gender, participant education, birth region, childhood hunger, childhood family finances and parental education.

	<b>Executive Function</b>	<b>Semantic Memory</b>	<b>Verbal Episodic Memory</b>
	<b><math>\beta</math> (95% CI)</b>	<b><math>\beta</math> (95% CI)</b>	<b><math>\beta</math> (95% CI)</b>
Never attended integrated schools	ref.	ref.	ref.
Only attended integrated schools	0.09 (-0.12 - 0.29)	0.18 (-0.03 - 0.40)	-0.01 (-0.23 - 0.21)
Integrated between 1st and 6th grades	0.34 (0.05 - 0.62)	0.36 (0.06 - 0.66)	0.04 (-0.27 - 0.35)
Integrated between 6th and 9th grades	-0.07 (-0.37 - 0.22)	-0.09 (-0.40 - 0.22)	0.01 (-0.31 - 0.33)
Integrated between 9th and 12th grades	-0.15 (-0.49 - 0.19)	0.01 (-0.35 - 0.36)	0.16 (-0.20 - 0.53)
From integrated to segregated schools	0.08 (-0.29 - 0.45)	0.45 (0.06 - 0.85)	0.06 (-0.34 - 0.47)

**eTable 5.** Linear Regression Coefficients for the Association Between Segregated/Integrated School Attendance Experience and  $z$  Standardized Late-Life Cognitive Domains in STAR. Models control for age, gender, and birth region.

	<b>Executive Function</b>	<b>Semantic Memory</b>	<b>Verbal Episodic Memory</b>
	<b><math>\beta</math> (95% CI)</b>	<b><math>\beta</math> (95% CI)</b>	<b><math>\beta</math> (95% CI)</b>
Never attended integrated schools	ref.	ref.	ref.
Only attended integrated schools	0.13 (-0.07 - 0.34)	0.33 (0.12 - 0.54)	-0.01 (-0.22 - 0.20)
Integrated between 1 <sup>st</sup> and 6 <sup>th</sup> grades	0.30 (0.02 - 0.58)	0.40 (0.10 - 0.69)	0.04 (-0.25 - 0.34)
Integrated between 6 <sup>th</sup> and 9 <sup>th</sup> grades	-0.19 (-0.48 - 0.10)	-0.08 (-0.38 - 0.21)	-0.09 (-0.38 - 0.21)
Integrated between 9 <sup>th</sup> and 12 <sup>th</sup> grades	0.04 (-0.30 - 0.39)	0.19 (-0.16 - 0.55)	0.26 (-0.09 - 0.62)
From integrated to segregated schools	0.07 (-0.30 - 0.44)	0.53 (0.14 - 0.92)	0.08 (-0.30 - 0.46)