

Supplementary Table 1. Fixed effects of cohort

	Global cognition		Memory		Language		Visuospatial	
	Unadjusted Model	Adjusted Step 1 ¹	Unadjusted Model	Adjusted Step 1 ¹	Unadjusted Model	Adjusted Step 1 ¹	Unadjusted Model	Adjusted Step 1 ¹
	Estimate [95% CI]	Estimate [95% CI]	Estimate [95% CI]	Estimate [95% CI]	Estimate [95% CI]	Estimate [95% CI]	Estimate [95% CI]	Estimate [95% CI]
<u>All</u>								
i cohort effect	.231*** [.190; .271]	.081** [.032; .131]	.278*** [.227; .329]	.033 [-.033; .099]	.246*** [.197; .294]	.166*** [.106; .226]	.173*** [.128; .218]	.071** [.018; .125]
s cohort effect	.026*** [.021; .032]	.012** [.005; .020]	.039*** [.026; .053]	.015 [-.001; .030]	.022*** [.014; .030]	.011* [.002; .021]	.022*** [.016; .028]	.017*** [.009; .024]
i 1905-1920	.101*** [.068; .133]	.197*** [.161; .234]	.078*** [.037; .119]	.236*** [.188; .284]	.039* [.001; .078]	.091*** [.046; .136]	.139*** [.102; .175]	.204*** [.164; .244]
s 1905-1920	-.058*** [-.063; -.053]	-.050*** [-.056; -.044]	-.103*** [-.115; -.090]	-.088*** [-.101; -.076]	-.045*** [-.052; -.038]	-.039*** [-.047; -.032]	-.035*** [-.040; -.029]	-.031*** [-.037; -.025]
<u>Whites</u>								
i cohort effect	.309*** [.242; .377]	.151** [.055; .247]	.424*** [.322; .525]	.158* [.018; .297]	.321*** [.227; .415]	.230** [.088; .372]	.163*** [.110; .216]	.083* [.016; .15]
s cohort effect	.030*** [.020; .041]	.013 [.000; .026]	.036*** [.017; .056]	.014 [-.012; .040]	.016* [.003; .029]	.016 [-.001; .033]	.018*** [.008; .027]	.007 [-.004; .019]
i 1905-1920	.402*** [.346; .459]	.511*** [.437; .585]	.290*** [.204; .377]	.470*** [.364; .577]	.382*** [.301; .462]	.440*** [.328; .551]	.515*** [.472; .559]	.57*** [.519; .621]
s 1905-1920	-.060*** [-.070; -.050]	-.049*** [-.060; -.038]	-.091*** [-.107; -.074]	-.080*** [-.100; -.059]	-.044*** [-.056; -.032]	-.048*** [-.062; -.033]	-.028*** [-.037; -.019]	-.021*** [-.031; -.012]
<u>Blacks</u>								
i cohort effect	.217*** [.155; .279]	.112** [.028; .197]	.249*** [.163; .336]	.045 [-.072; .163]	.247*** [.177; .318]	.227*** [.134; .319]	.156*** [.090; .222]	.093* [.003; .182]
s cohort effect	.027***	.011	.051***	.022	.019**	.007	.024***	.018**

	[.017; .037]	[-.002; .024]	[.030; .072]	[-.003; .046]	[.007; .030]	[-.007; .022]	[.014; .034]	[.006; .03]
i 1905-1920	.134***	.197***	.071*	.195***	.097***	.109**	.191***	.23***
	[.086; .181]	[.138; .256]	[.004; .138]	[.116; .274]	[.043; .151]	[.043; .174]	[.138; .245]	[.164; .295]
s 1905-1920	-.062***	-.053***	-.109***	-.091***	-.046***	-.041***	-.037***	-.033***
	[-.071; -.053]	[-.062; -.044]	[-.127; -.091]	[-.109; -.074]	[-.056; -.036]	[-.051; -.031]	[-.046; -.027]	[-.043; -.023]
Hispanics								
i cohort effect	.166***	.018	.180***	-.048	.163***	.074	.168***	.052
	[.106; .227]	[-.060; .097]	[.106; .253]	[-.144; .048]	[.095; .232]	[-.012; .161]	[.093; .243]	[-.044; .149]
s cohort effect	.023***	.012	.027**	.004	.022***	.011	.022***	.02**
	[.013; .033]	[.000; .025]	[.008; .046]	[-.018; .026]	[.010; .033]	[-.004; .025]	[.011; .032]	[.006; .035]
i 1905-1920	-.122***	-.027	-.049	.098**	-.222***	-.165***	-.148***	-.074*
	[-.172; -.072]	[-.086; .032]	[-.111; .013]	[.026; .170]	[-.278; -.166]	[-.23; -.099]	[-.211; -.086]	[-.146; -.001]
s 1905-1920	-.054***	-.048***	-.099***	-.084***	-.039***	-.034***	-.035***	-.034***
	[-.063; -.045]	[-.057; -.038]	[-.115; -.083]	[-.101; -.067]	[-.050; -.029]	[-.045; -.022]	[-.044; -.026]	[-.045; -.024]

Note. i = intercept, s = slope; 95% CI = 95% confidence interval; i = intercept, s = slope; the 1921-1935 cohort parameters are the 1905-1920 cohort's value + cohort effect; ¹covariates are age, sex, and

baseline memory complaints for models in the subgroups, plus race in the model with all participants; *p < .05, **p < .01, ***p < .001

Supplementary Table 2. Covariate effects in the whole sample

		Initial level (intercept)		Linear change (slope)	
<u>Global cognition</u>		Est. [95% CI] 1905-1920	Est. [95% CI] 1921-1935	Est. [95% CI] 1905-1920	Est. [95% CI] 1921-1935
Step 1	Age	-.020*** [-.028; -.013]	-.016*** [-.022; -.010]	-.003** [-.004; -.001]	-.002*** [-.003; -.001]
	Sex/gender (female)	-.001 [-.063; .060]	.073** [.029; .116]	.006 [-.006; .017]	.003 [-.003; .009]
	Race (Black)	-.289*** [-.363; -.215]	-.368*** [-.420; -.316]	-.006 [-.019; .007]	-.005 [-.012; .002]
	Race (Hispanic)	-.545*** [-.620; -.469]	-.668*** [-.717; -.619]	.002 [-.012; .015]	-.001 [-.008; .006]
	Memory complaints	-.029** [-.048; -.011]	-.040*** [-.053; -.027]	-.001 [-.005; .002]	-.001 [-.003; .001]
Step 2	CVD burden	-.030 [-.061; .001]	-.018 [-.040; .004]	.000 [-.005; .005]	-.001 [-.004; .002]
Step 3	Education	.056*** [.048; .064]	.057*** [.051; .062]	-.001 [-.002; .001]	.001** [.000; .002]
Step 4	CSES	.035 [-.019; .089]	.026 [-.010; .062]	-.006 [-.015; .003]	-.003 [-.008; .002]
<u>Memory</u>					
Step 1	Age	-.035*** [-.044; -.025]	-.029*** [-.037; -.021]	-.005*** [-.008; -.003]	-.003*** [-.004; -.001]
	Sex/gender (female)	.163*** [.079; .248]	.197*** [.138; .255]	.000 [-.017; .018]	.005 [-.005; .015]
	Race (Black)	-.260*** [-.367; -.153]	-.409*** [-.483; -.336]	-.010 [-.032; .011]	-.008 [-.019; .003]
	Race (Hispanic)	-.368*** [-.472; -.264]	-.589*** [-.656; -.522]	-.002 [-.024; .020]	-.003 [-.014; .008]
	Memory complaints	-.068*** [-.093; -.044]	-.053*** [-.070; -.035]	-.001 [-.007; .004]	-.003 [-.006; .000]
Step 2	CVD burden	-.015 [-.057; .026]	-.025 [-.055; .005]	.000 [-.008; .007]	.002 [-.002; .007]
Step 3	Education	.042*** [.031; .053]	.041*** [.032; .049]	-.001 [-.003; .001]	.002** [.001; .003]
Step 4	CSES	.007 [-.067; .081]	-.021 [-.072; .030]	-.006 [-.021; .008]	.000 [-.007; .008]
<u>Language</u>					
Step 1	Age	-.007 [-.017; .002]	-.009* [-.016; -.002]	-.002* [-.003; .000]	-.002*** [-.002; -.001]
	Sex/gender (female)	-.047 [-.123; .028]	.038 [-.014; .090]	.005 [-.007; .017]	.005 [-.001; .011]
	Race (Black)	-.273*** [-.371; -.175]	-.373*** [-.438; -.308]	.001 [-.014; .016]	-.004 [-.011; .002]
	Race (Hispanic)	-.595*** [-.696; -.495]	-.764*** [-.826; -.703]	.008 [-.007; .023]	.003 [-.003; .010]
	Memory complaints	-.013 [-.035; .009]	-.040*** [-.056; -.025]	-.002 [-.005; .001]	-.001 [-.003; .000]
Step 2	CVD burden	-.006 [-.042; .031]	-.015 [-.040; .011]	-.002 [-.008; .004]	-.001 [-.004; .001]
Step 3	Education	.068*** [.059; .077]	.071*** [.065; .078]	-.001 [-.003; .000]	.001 [.000; .001]
Step 4	CSES	.041 [-.027; .109]	.054* [.012; .095]	-.012* [-.022; -.002]	-.004* [-.009; .000]
<u>Visuospatial</u>					
Step 1	Age	-.016*** [-.024; -.007]	-.010** [-.016; -.003]	.000 [-.002; .001]	-.001** [-.002; .000]
	Sex/gender (female)	-.119*** [-.185; -.053]	-.018 [-.065; .028]	.006 [-.005; .017]	.001 [-.005; .007]
	Race (Black)	-.329*** [-.398; -.260]	-.329*** [-.378; -.280]	-.008 [-.020; .004]	-.002 [-.008; .005]
	Race (Hispanic)	-.681*** [-.757; -.605]	-.654*** [-.706; -.603]	-.006 [-.018; .007]	-.001 [-.008; .006]

	Memory complaints	.000 [-.022; .022]	-.022** [-.036; -.007]	-.001 [-.005; .002]	-.001 [-.003; .001]
Step 2	CVD burden	-.046* [-.080; -.011]	-.020 [-.044; .004]	-.003 [-.008; .003]	-.002 [-.005; .001]
Step 3	Education	.060*** [.052; .068]	.058*** [.052; .064]	.000 [-.002; .001]	.001* [.000; .002]
Step 4	CSES	.046 [-.010; .103]	.048* [.011; .085]	-.003 [-.012; .006]	-.004 [-.009; .001]

Note. Est. = estimate, 95% CI = 95% confidence interval; Continuous variables are measured at baseline and centered at their grand mean;

complaints = baseline memory complaints; *p < .05, **p < .01, ***p < .001