

ECog Effects on Cognitive Trajectories

ECog Memory

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Memory on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_mem_free.out Reading model:
../Analysis/senas_ecog_cov_mem_free.out Reading model: ../Analysis/senas_ecog_cov_mem_int_sl_cons.out
Reading model: ../Analysis/senas_ecog_cov_mem_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_mem_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	12.9	10	0.227
Intercepts Constrained	5.4	8	0.719
Slopes Constrained	6.4	2	0.041

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Memory (Adjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_memadj_free.out Reading model:
../Analysis/senas_ecog_cov_memadj_free.out Reading model:
../Analysis/senas_ecog_cov_memadj_int_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_memadj_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_memadj_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	14.2	10	0.165
Intercepts Constrained	5	8	0.756
Slopes Constrained	8.4	2	0.015

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Memory (Unadjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_memcon_free.out Reading model:
 ../Analysis/senas_ecog_cov_memcon_free.out Reading model:
 ../Analysis/senas_ecog_cov_memcon_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_memcon_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_memcon_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	14.1	10	0.17
Intercepts Constrained	4.9	8	0.77
Slopes Constrained	8.1	2	0.017

Effects (SEs) of Baseline ECog Memory on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_mem_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.038 (0.012) ⁺⁺⁺	-0.026 (0.006) ⁺⁺⁺	-0.057 (0.008) ⁺⁺⁺
Episodic Memory Intercept	-0.434 (0.056) ⁺⁺⁺	-0.425 (0.055) ⁺⁺⁺	-0.468 (0.039) ⁺⁺⁺
Semantic Memory Intercept	-0.245 (0.059) ⁺⁺⁺	-0.275 (0.068) ⁺⁺⁺	-0.247 (0.040) ⁺⁺⁺
Executive Function Intercept	-0.228 (0.041) ⁺⁺⁺	-0.268 (0.044) ⁺⁺⁺	-0.220 (0.035) ⁺⁺⁺
Spatial Intercept	-0.285 (0.065) ⁺⁺⁺	-0.331 (0.081) ⁺⁺⁺	-0.210 (0.048) ⁺⁺⁺

Effects (SEs) of Baseline ECog Memory (Adjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_memadj_free.out

variable	African American	Hispanic	Caucasian
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Global Slope	-0.040 (0.012) ⁺⁺⁺	-0.030 (0.007) ⁺⁺⁺	-0.070 (0.009) ⁺⁺⁺
Episodic Memory Intercept	-0.477 (0.062) ⁺⁺⁺	-0.487 (0.069) ⁺⁺⁺	-0.554 (0.047) ⁺⁺⁺
Semantic Memory Intercept	-0.288 (0.066) ⁺⁺⁺	-0.315 (0.084) ⁺⁺⁺	-0.306 (0.048) ⁺⁺⁺
Executive Function Intercept	-0.254 (0.045) ⁺⁺⁺	-0.302 (0.055) ⁺⁺⁺	-0.269 (0.042) ⁺⁺⁺
Spatial Intercept	-0.329 (0.068) ⁺⁺⁺	-0.359 (0.102) ⁺⁺⁺	-0.251 (0.056) ⁺⁺⁺

Effects (SEs) of Baseline ECog Memory (Unadjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_memcon_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.041 (0.012) ⁺⁺⁺	-0.030 (0.007) ⁺⁺⁺	-0.070 (0.009) ⁺⁺⁺
Episodic Memory Intercept	-0.492 (0.064) ⁺⁺⁺	-0.493 (0.068) ⁺⁺⁺	-0.555 (0.047) ⁺⁺⁺
Semantic Memory Intercept	-0.294 (0.068) ⁺⁺⁺	-0.321 (0.084) ⁺⁺⁺	-0.306 (0.048) ⁺⁺⁺
Executive Function Intercept	-0.261 (0.046) ⁺⁺⁺	-0.308 (0.054) ⁺⁺⁺	-0.270 (0.042) ⁺⁺⁺
Spatial Intercept	-0.339 (0.071) ⁺⁺⁺	-0.363 (0.102) ⁺⁺⁺	-0.251 (0.056) ⁺⁺⁺

ECog Language/Semantic

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Language/Semantic on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_langsem_free.out Reading model:

../Analysis/senas_ecog_cov_langsem_free.out Reading model:

../Analysis/senas_ecog_cov_langsem_int_sl_cons.out Reading model:

../Analysis/senas_ecog_cov_langsem_sl_cons.out Reading model:

../Analysis/senas_ecog_cov_langsem_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes	30.9	10	0.001
Constrained			

Intercepts Constrained	15.5	8	0.051
Slopes Constrained	17.9	2	0.001

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Language/Semantic (Adjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_lanadj_free.out Reading model:
 ../Analysis/senas_ecog_cov_lanadj_free.out Reading model:
 ../Analysis/senas_ecog_cov_lanadj_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_lanadj_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_lanadj_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	31.6	10	0.001
Intercepts Constrained	15.3	8	0.053
Slopes Constrained	19.5	2	0.001

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Language/Semantic (Unadjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_lancon_free.out Reading model:
 ../Analysis/senas_ecog_cov_lancon_free.out Reading model:
 ../Analysis/senas_ecog_cov_lancon_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_lancon_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_lancon_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	32.1	10	0.001
Intercepts Constrained	15.4	8	0.052
Slopes Constrained	20.1	2	0.001

Effects (SEs) of Baseline ECog Language/Semantic on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_langsem_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.049 (0.014) ⁺⁺⁺	-0.017 (0.006) ⁺⁺	-0.079 (0.014) ⁺⁺⁺
Episodic Memory Intercept	-0.393 (0.080) ⁺⁺⁺	-0.277 (0.078) ⁺⁺⁺	-0.501 (0.064) ⁺⁺⁺
Semantic Memory Intercept	-0.238 (0.072) ⁺⁺⁺	-0.318 (0.083) ⁺⁺⁺	-0.410 (0.063) ⁺⁺⁺
Executive Function Intercept	-0.214 (0.056) ⁺⁺⁺	-0.231 (0.059) ⁺⁺⁺	-0.410 (0.047) ⁺⁺⁺
Spatial Intercept	-0.302 (0.081) ⁺⁺⁺	-0.425 (0.100) ⁺⁺⁺	-0.415 (0.072) ⁺⁺⁺

Effects (SEs) of Baseline ECog Language/Semantic (Adjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_lanadj_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.039 (0.012) ⁺⁺⁺	-0.015 (0.007) ⁺	-0.077 (0.013) ⁺⁺⁺
Episodic Memory Intercept	-0.409 (0.066) ⁺⁺⁺	-0.289 (0.077) ⁺⁺⁺	-0.507 (0.062) ⁺⁺⁺
Semantic Memory Intercept	-0.278 (0.065) ⁺⁺⁺	-0.323 (0.080) ⁺⁺⁺	-0.398 (0.062) ⁺⁺⁺
Executive Function Intercept	-0.236 (0.045) ⁺⁺⁺	-0.232 (0.055) ⁺⁺⁺	-0.413 (0.046) ⁺⁺⁺
Spatial Intercept	-0.352 (0.075) ⁺⁺⁺	-0.430 (0.095) ⁺⁺⁺	-0.395 (0.067) ⁺⁺⁺

Effects (SEs) of Baseline ECog Language/Semantic (Unadjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_lancon_free.out

variable	African American	Hispanic	Caucasian
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Global Slope	-0.039 (0.011) ⁺⁺⁺	-0.014 (0.007) ⁺	-0.078 (0.013) ⁺⁺⁺
Episodic Memory Intercept	-0.399 (0.066) ⁺⁺⁺	-0.287 (0.077) ⁺⁺⁺	-0.511 (0.063) ⁺⁺⁺
Semantic Memory Intercept	-0.273 (0.065) ⁺⁺⁺	-0.323 (0.081) ⁺⁺⁺	-0.400 (0.062) ⁺⁺⁺
Executive Function Intercept	-0.234 (0.045) ⁺⁺⁺	-0.230 (0.055) ⁺⁺⁺	-0.414 (0.047) ⁺⁺⁺
Spatial Intercept	-0.345 (0.075) ⁺⁺⁺	-0.421 (0.095) ⁺⁺⁺	-0.397 (0.068) ⁺⁺⁺

ECog Visual Spatial

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Visual-Spatial on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_vssp_free.out Reading model:
 ../Analysis/senas_ecog_cov_vssp_free.out Reading model: ../Analysis/senas_ecog_cov_vssp_int_sl_cons.out
 Reading model: ../Analysis/senas_ecog_cov_vssp_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_vssp_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	24.5	10	0.006
Intercepts Constrained	8.7	8	0.367
Slopes Constrained	14.3	2	0.001

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Visual Spatial (Adjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_vspadj_free.out Reading model:
 ../Analysis/senas_ecog_cov_vspadj_free.out Reading model:
 ../Analysis/senas_ecog_cov_vspadj_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_vspadj_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_vspadj_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	19.2	10	0.037

Intercepts Constrained	8.6	8	0.374
Slopes Constrained	11.5	2	0.003

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Visual Spatial (Unadjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_vspcon_free.out Reading model:

../Analysis/senas_ecog_cov_vspcon_free.out Reading model:

../Analysis/senas_ecog_cov_vspcon_int_sl_cons.out Reading model:

../Analysis/senas_ecog_cov_vspcon_sl_cons.out Reading model:

../Analysis/senas_ecog_cov_vspcon_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	18.6	10	0.046
Intercepts Constrained	7.8	8	0.457
Slopes Constrained	11.7	2	0.003

Effects (SEs) of Baseline ECog Visual-Spatial on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_vssp_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.049 (0.015) ⁺⁺⁺	-0.012 (0.006) ⁺	-0.069 (0.015) ⁺⁺⁺
Episodic Memory Intercept	-0.389 (0.066) ⁺⁺⁺	-0.325 (0.071) ⁺⁺⁺	-0.486 (0.059) ⁺⁺⁺
Semantic Memory Intercept	-0.251 (0.067) ⁺⁺⁺	-0.360 (0.079) ⁺⁺⁺	-0.427 (0.060) ⁺⁺⁺
Executive Function Intercept	-0.204 (0.042) ⁺⁺⁺	-0.217 (0.059) ⁺⁺⁺	-0.332 (0.052) ⁺⁺⁺
Spatial Intercept	-0.326 (0.072) ⁺⁺⁺	-0.448 (0.099) ⁺⁺⁺	-0.466 (0.074) ⁺⁺⁺

Effects (SEs) of Baseline ECog Visual Spatial (Adjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_vspadj_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.049 (0.015) ⁺⁺⁺	-0.022 (0.008) ⁺⁺	-0.084 (0.015) ⁺⁺⁺
Episodic Memory Intercept	-0.482 (0.080) ⁺⁺⁺	-0.431 (0.092) ⁺⁺⁺	-0.603 (0.075) ⁺⁺⁺
Semantic Memory Intercept	-0.327 (0.080) ⁺⁺⁺	-0.500 (0.092) ⁺⁺⁺	-0.497 (0.069) ⁺⁺⁺
Executive Function Intercept	-0.257 (0.054) ⁺⁺⁺	-0.270 (0.071) ⁺⁺⁺	-0.402 (0.061) ⁺⁺⁺
Spatial Intercept	-0.446 (0.086) ⁺⁺⁺	-0.600 (0.116) ⁺⁺⁺	-0.520 (0.084) ⁺⁺⁺

Effects (SEs) of Baseline ECog Visual Spatial (Unadjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_vspcon_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.051 (0.016) ⁺⁺⁺	-0.022 (0.008) ⁺⁺	-0.084 (0.015) ⁺⁺⁺
Episodic Memory Intercept	-0.493 (0.084) ⁺⁺⁺	-0.426 (0.088) ⁺⁺⁺	-0.604 (0.075) ⁺⁺⁺
Semantic Memory Intercept	-0.333 (0.083) ⁺⁺⁺	-0.479 (0.091) ⁺⁺⁺	-0.496 (0.069) ⁺⁺⁺
Executive Function Intercept	-0.267 (0.054) ⁺⁺⁺	-0.266 (0.069) ⁺⁺⁺	-0.402 (0.061) ⁺⁺⁺
Spatial Intercept	-0.449 (0.092) ⁺⁺⁺	-0.576 (0.116) ⁺⁺⁺	-0.519 (0.084) ⁺⁺⁺

ECog Organization

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Organization on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_org_free.out Reading model:

../Analysis/senas_ecog_cov_org_free.out Reading model: ../Analysis/senas_ecog_cov_org_int_sl_cons.out
Reading model: ../Analysis/senas_ecog_cov_org_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_org_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	16.4	10	0.089
Intercepts Constrained	8.5	8	0.386
Slopes Constrained	6	2	0.049

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Organization (Adjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_orgadj_free.out Reading model:
../Analysis/senas_ecog_cov_orgadj_free.out Reading model:
../Analysis/senas_ecog_cov_orgadj_int_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_orgadj_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_orgadj_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	18.5	10	0.047
Intercepts Constrained	6.5	8	0.588
Slopes Constrained	9.3	2	0.009

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Organization (Unadjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_orgcon_free.out Reading model:
../Analysis/senas_ecog_cov_orgcon_free.out Reading model:
../Analysis/senas_ecog_cov_orgcon_int_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_orgcon_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_orgcon_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes	18.5	10	0.047

Constrained

Intercepts Constrained	6.5	8	0.588
Slopes Constrained	9.3	2	0.009

Effects (SEs) of Baseline ECog Organization on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_org_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.024 (0.012)	-0.029 (0.005) ⁺⁺⁺	-0.058 (0.009) ⁺⁺⁺
Episodic Memory Intercept	-0.362 (0.062) ⁺⁺⁺	-0.400 (0.059) ⁺⁺⁺	-0.389 (0.044) ⁺⁺⁺
Semantic Memory Intercept	-0.170 (0.054) ⁺⁺	-0.319 (0.068) ⁺⁺⁺	-0.279 (0.046) ⁺⁺⁺
Executive Function Intercept	-0.216 (0.043) ⁺⁺⁺	-0.244 (0.050) ⁺⁺⁺	-0.260 (0.037) ⁺⁺⁺
Spatial Intercept	-0.294 (0.074) ⁺⁺⁺	-0.435 (0.079) ⁺⁺⁺	-0.283 (0.052) ⁺⁺⁺

Effects (SEs) of Baseline ECog Organization (Adjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_orgadj_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.025 (0.014)	-0.031 (0.007) ⁺⁺⁺	-0.080 (0.013) ⁺⁺⁺
Episodic Memory Intercept	-0.433 (0.081) ⁺⁺⁺	-0.515 (0.081) ⁺⁺⁺	-0.538 (0.060) ⁺⁺⁺
Semantic Memory Intercept	-0.254 (0.071) ⁺⁺⁺	-0.373 (0.093) ⁺⁺⁺	-0.393 (0.061) ⁺⁺⁺
Executive Function Intercept	-0.276 (0.053) ⁺⁺⁺	-0.348 (0.062) ⁺⁺⁺	-0.378 (0.050) ⁺⁺⁺
Spatial Intercept	-0.367 (0.094) ⁺⁺⁺	-0.551 (0.104) ⁺⁺⁺	-0.406 (0.069) ⁺⁺⁺

Effects (SEs) of Baseline ECog Organization (Unadjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_orgcon_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.025 (0.014)	-0.031 (0.007) ⁺⁺⁺	-0.080 (0.013) ⁺⁺⁺
Episodic Memory Intercept	-0.433 (0.081) ⁺⁺⁺	-0.515 (0.081) ⁺⁺⁺	-0.538 (0.060) ⁺⁺⁺
Semantic Memory Intercept	-0.254 (0.071) ⁺⁺⁺	-0.373 (0.093) ⁺⁺⁺	-0.393 (0.061) ⁺⁺⁺
Executive Function Intercept	-0.276 (0.053) ⁺⁺⁺	-0.348 (0.062) ⁺⁺⁺	-0.378 (0.050) ⁺⁺⁺
Spatial Intercept	-0.367 (0.094) ⁺⁺⁺	-0.551 (0.104) ⁺⁺⁺	-0.406 (0.069) ⁺⁺⁺

ECog Planning

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Planning on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_plan_free.out Reading model:

../Analysis/senas_ecog_cov_plan_free.out Reading model: ../Analysis/senas_ecog_cov_plan_int_sl_cons.out

Reading model: ../Analysis/senas_ecog_cov_plan_sl_cons.out Reading model:

../Analysis/senas_ecog_cov_plan_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	10.1	10	0.432
Intercepts Constrained	4	8	0.859
Slopes Constrained	5	2	0.081

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Planning (Adjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_planadj_free.out Reading model:
 ../Analysis/senas_ecog_cov_planadj_free.out Reading model:
 ../Analysis/senas_ecog_cov_planadj_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_planadj_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_planadj_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	8.4	10	0.593
Intercepts Constrained	2.3	8	0.97
Slopes Constrained	4.8	2	0.089

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Planning (Unadjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_plancon_free.out Reading model:
 ../Analysis/senas_ecog_cov_plancon_free.out Reading model:
 ../Analysis/senas_ecog_cov_plancon_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_plancon_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_plancon_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	8.5	10	0.583
Intercepts Constrained	2.3	8	0.969
Slopes Constrained	4.9	2	0.088

Effects (SEs) of Baseline ECog Planning on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_plan_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.046 (0.014) ⁺⁺⁺	-0.027 (0.005) ⁺⁺⁺	-0.056 (0.011) ⁺⁺⁺
Episodic Memory Intercept	-0.430 (0.067) ⁺⁺⁺	-0.435 (0.069) ⁺⁺⁺	-0.449 (0.053) ⁺⁺⁺
Semantic Memory Intercept	-0.269 (0.066) ⁺⁺⁺	-0.373 (0.080) ⁺⁺⁺	-0.342 (0.052) ⁺⁺⁺

Executive Function Intercept	-0.233 (0.048) ⁺⁺⁺	-0.308 (0.055) ⁺⁺⁺	-0.313 (0.042) ⁺⁺⁺
Spatial Intercept	-0.394 (0.073) ⁺⁺⁺	-0.452 (0.090) ⁺⁺⁺	-0.371 (0.061) ⁺⁺⁺

Effects (SEs) of Baseline ECog Planning (Adjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_planadj_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.049 (0.017) ⁺⁺	-0.037 (0.008) ⁺⁺⁺	-0.079 (0.014) ⁺⁺⁺
Episodic Memory Intercept	-0.566 (0.078) ⁺⁺⁺	-0.592 (0.083) ⁺⁺⁺	-0.625 (0.068) ⁺⁺⁺
Semantic Memory Intercept	-0.375 (0.075) ⁺⁺⁺	-0.450 (0.092) ⁺⁺⁺	-0.448 (0.066) ⁺⁺⁺
Executive Function Intercept	-0.343 (0.055) ⁺⁺⁺	-0.373 (0.065) ⁺⁺⁺	-0.408 (0.055) ⁺⁺⁺
Spatial Intercept	-0.510 (0.089) ⁺⁺⁺	-0.573 (0.109) ⁺⁺⁺	-0.485 (0.076) ⁺⁺⁺

Effects (SEs) of Baseline ECog Planning (Unadjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_plancon_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.049 (0.017) ⁺⁺	-0.037 (0.008) ⁺⁺⁺	-0.079 (0.014) ⁺⁺⁺
Episodic Memory Intercept	-0.566 (0.078) ⁺⁺⁺	-0.601 (0.083) ⁺⁺⁺	-0.626 (0.068) ⁺⁺⁺
Semantic Memory Intercept	-0.375 (0.075) ⁺⁺⁺	-0.452 (0.093) ⁺⁺⁺	-0.448 (0.066) ⁺⁺⁺
Executive Function Intercept	-0.343 (0.055) ⁺⁺⁺	-0.378 (0.066) ⁺⁺⁺	-0.408 (0.055) ⁺⁺⁺
Spatial Intercept	-0.511 (0.089) ⁺⁺⁺	-0.579 (0.109) ⁺⁺⁺	-0.485 (0.076) ⁺⁺⁺

ECog Divided Attention

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Divided Attention on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_divatt_free.out Reading model:
../Analysis/senas_ecog_cov_divatt_free.out Reading model:
../Analysis/senas_ecog_cov_divatt_int_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_divatt_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_divatt_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	13.6	10	0.194
Intercepts Constrained	5.1	8	0.751
Slopes Constrained	7.7	2	0.021

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Divided Attention (Adjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_daadj_free.out Reading model:
../Analysis/senas_ecog_cov_daadj_free.out Reading model:
../Analysis/senas_ecog_cov_daadj_int_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_daadj_sl_cons.out Reading model:
../Analysis/senas_ecog_cov_daadj_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	13.7	10	0.187
Intercepts Constrained	4.7	8	0.788
Slopes Constrained	7.6	2	0.023

Likelihood ratio tests of racial/ethnic group differences in effects of ECog Divided Attention (Unadjusted) on SENAS intercepts and global slope

Reading model: ../Analysis/senas_ecog_cov_dacon_free.out Reading model:
 ../Analysis/senas_ecog_cov_dacon_free.out Reading model:
 ../Analysis/senas_ecog_cov_dacon_int_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_dacon_sl_cons.out Reading model:
 ../Analysis/senas_ecog_cov_dacon_int_cons.out

model	Chi-Square	df	p
Intercepts and Slopes Constrained	13.9	10	0.178
Intercepts Constrained	4.7	8	0.786
Slopes Constrained	8	2	0.018

Effects (SEs) of Baseline ECog Divided Attention on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_divatt_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.034 (0.011) ⁺⁺	-0.017 (0.006) ⁺⁺	-0.050 (0.010) ⁺⁺⁺
Episodic Memory Intercept	-0.399 (0.063) ⁺⁺⁺	-0.318 (0.068) ⁺⁺⁺	-0.390 (0.046) ⁺⁺⁺
Semantic Memory Intercept	-0.227 (0.062) ⁺⁺⁺	-0.260 (0.069) ⁺⁺⁺	-0.256 (0.045) ⁺⁺⁺
Executive Function Intercept	-0.223 (0.045) ⁺⁺⁺	-0.202 (0.050) ⁺⁺⁺	-0.263 (0.036) ⁺⁺⁺
Spatial Intercept	-0.293 (0.074) ⁺⁺⁺	-0.319 (0.080) ⁺⁺⁺	-0.249 (0.049) ⁺⁺⁺

Effects (SEs) of Baseline ECog Divided Attention (Adjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_daadj_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.040 (0.013) ⁺⁺	-0.024 (0.007) ⁺⁺⁺	-0.067 (0.012) ⁺⁺⁺
Episodic Memory Intercept	-0.488 (0.074) ⁺⁺⁺	-0.428 (0.092) ⁺⁺⁺	-0.496 (0.061) ⁺⁺⁺

Semantic Memory Intercept	-0.311 (0.072) ⁺⁺⁺	-0.327 (0.093) ⁺⁺⁺	-0.315 (0.058) ⁺⁺⁺
Executive Function Intercept	-0.292 (0.052) ⁺⁺⁺	-0.265 (0.066) ⁺⁺⁺	-0.342 (0.046) ⁺⁺⁺
Spatial Intercept	-0.340 (0.088) ⁺⁺⁺	-0.429 (0.106) ⁺⁺⁺	-0.311 (0.061) ⁺⁺⁺

Effects (SEs) of Baseline ECog Divided Attention (Unadjusted) on Cognitive Intercepts and Global Cognitive Change by Ethnicity

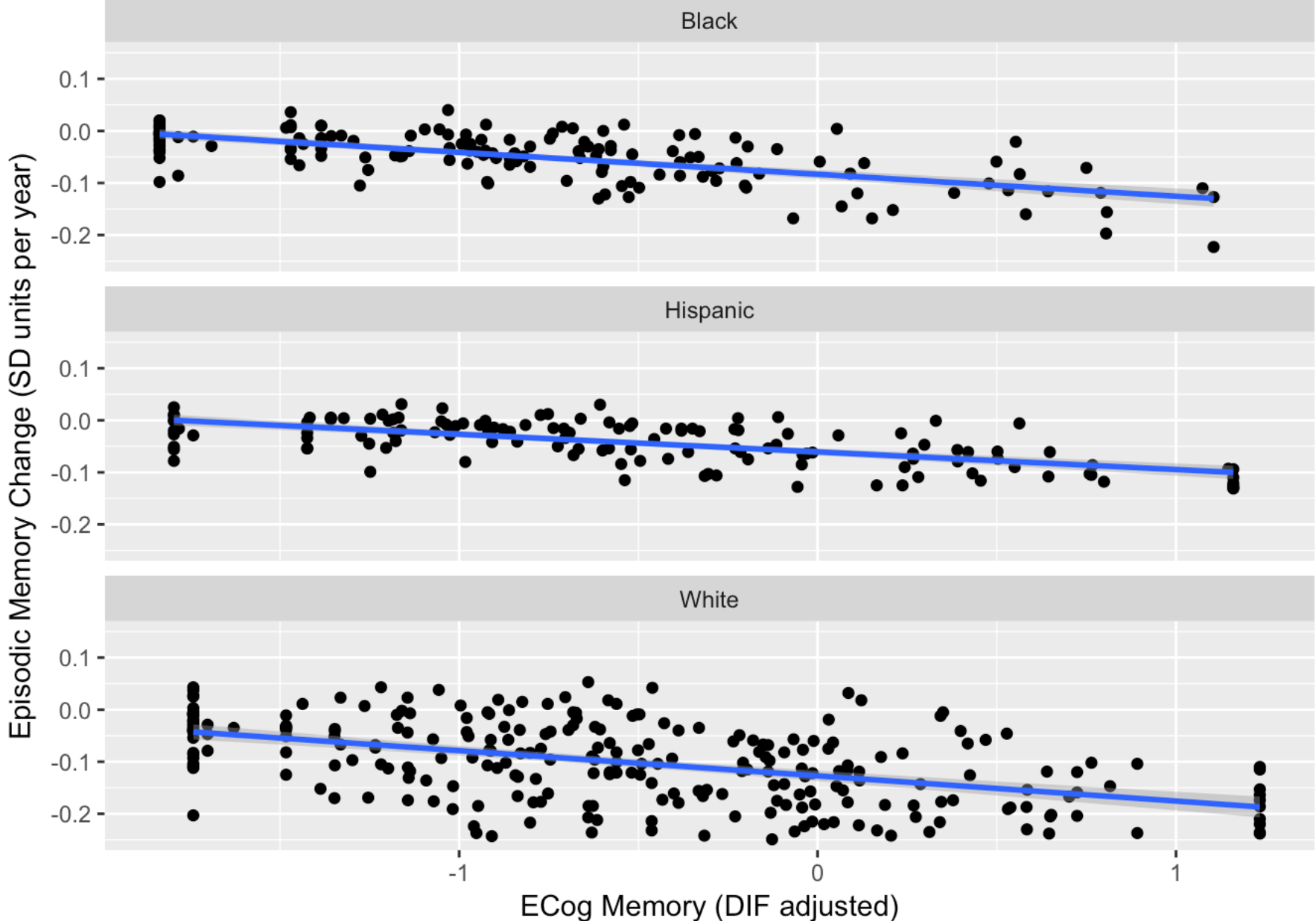
+ p<0.05, ++ p<0.01, +++ p<0.001

Reading model: ../Analysis/senas_ecog_cov_dacon_free.out

variable	African American	Hispanic	Caucasian
Global Slope	-0.040 (0.013) ⁺⁺	-0.024 (0.007) ⁺⁺⁺	-0.067 (0.012) ⁺⁺⁺
Episodic Memory Intercept	-0.489 (0.073) ⁺⁺⁺	-0.415 (0.088) ⁺⁺⁺	-0.497 (0.061) ⁺⁺⁺
Semantic Memory Intercept	-0.310 (0.072) ⁺⁺⁺	-0.317 (0.089) ⁺⁺⁺	-0.316 (0.058) ⁺⁺⁺
Executive Function Intercept	-0.293 (0.052) ⁺⁺⁺	-0.257 (0.063) ⁺⁺⁺	-0.343 (0.046) ⁺⁺⁺
Spatial Intercept	-0.341 (0.088) ⁺⁺⁺	-0.409 (0.102) ⁺⁺⁺	-0.311 (0.062) ⁺⁺⁺

ECog Memory Adjusted and Cognitive Slope by Ethnicity

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## Reading model: ../Analysis/senas_ecog_cov_memadj_free.out
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ECog Memory Adjusted and Cognitive Slope

Episodic Memory Change (SD units per year)

ECog Memory (DIF adjusted)

