Supplemental Material

Table S1. Dana task scores by GCS group among Framingham Heart Study participant.

N= 406	Total	GCS 1	GCS 2	GCS 3
Dana Task - Code Substitution				
avg_responsetime_cs	1923.29 (394.85)	2134.55 (456.20)	1911.42 (362.86)	1733.81 (270.49)
meanrtcorrect_cs	1894.59 (370.06)	2049.21 (424.94)	1900.63 (353.17)	1726.32 (259.34)
meanthru_cs	31.31 (6.66)	27.94 (7.21)	31.53 (6.27)	34.26 (5.25)
meanrt_cs	1913.43 (392.78)	2095.30 (466.05)	1911.42 (362.84)	1733.79 (270.47)
Dana Task - Go No Go				
avg_responsetime_gng	866.77 (133.90)	895.10 (178.60)	868.41 (117.73)	834.88 (102.75)
meanrtcorrect_gng	614.61 (146.47)	621.06 (181.16)	623.25 (141.57)	590.75 (111.72)
meanthru_gng	96.95 (23.21)	90.36 (28.53)	96.96 (21.21)	103.10 (19.21)
meanrt_gng	849.14 (151.22)	852.84 (211.99)	854.38 (134.24)	834.88 (102.68)
Dana Task - Simple Reaction Time				
avg_responsetime_srt	363.83 (71.17)	392.07 (94.96)	358.57 (61.75)	345.90 (50.12)
meanrtcorrect_srt	359.67 (65.23)	379.97 (83.66)	356.90 (59.39)	344.71 (48.80)
meanthru_srt	168.95 (29.50)	158.05 (34.27)	171.15 (27.85)	175.51 (24.44)
meanrt_srt	361.59 (68.39)	383.26 (88.95)	358.53 (61.72)	345.87 (50.08)

Data are presented as mean (SD)

Table S2. Dana task scores by GCS group among Bogalusa Heart Study participants.

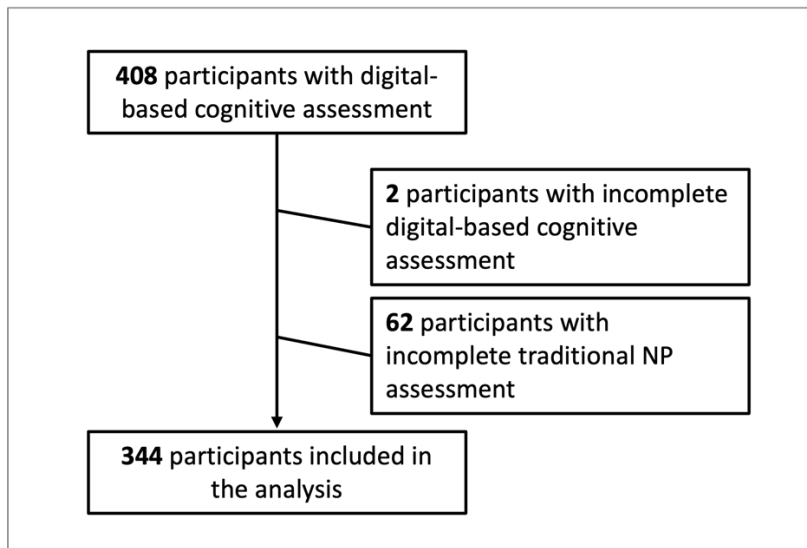| Dana task - Code Substitution			
avg_responsetime_cs	1863.13 (389.68)	2060.724 (371.78)	1803.01 (376.10)	1775.97 (388.59)
meanrtcorrect_cs	1846.36 (363.02)	2031.4 (364.69)	1788.83 (337.98)	1767.29 (367.35)
meanthru_cs	32.02 (6.98)	28.07 (6.12)	32.90 (6.21)	34.43 (8.01)
meanrt_cs	1863.05 (389.71)	2060.73 (371.92)	1802.93 (376.05)	1775.79 (388.62)
Dana task - Go No Go. (n=55)			
avg_responsetime_gng	841.07 (94.21)	882.18287 (96.98)	828.53 (89.93)	824.14 (93.97)
meanrtcorrect_gng	606.25 (118.88)	655.36 (130.95)	592.04 (116.19)	584.57 (105.04)
meanthru_gng	101.31 (17.25)	93.57 (16.82)	103.74 (16.35)	104.36 (18.21)
meanrt_gng	841.05 (94.23)	882.21 (96.97)	828.56 (89.99)	824 (93.89)
Dana task - Simple Reaction Time			
avg_responsetime_srt	358.12 (111.09)	353.27 (100.44)	366.07 (128.53)	345.97 (83.24)
meanrtcorrect_srt	336.53 (83.40)	339.87 (66.36)	330.79 (94.80)	345.46 (78.56)
meanthru_srt	174.89 (42.22)	177.53 (40.63)	171.83 (45.02)	178.69 (40.19)
meanrt_srt	342.33 (95.59)	353.4 (100.53)	335.03 (100.64)	345.85 (83.21)

Data are

presented as mean (SD)

Table S3. Association between DANA digital scores and GCS z-score adjusting for educational attainment.

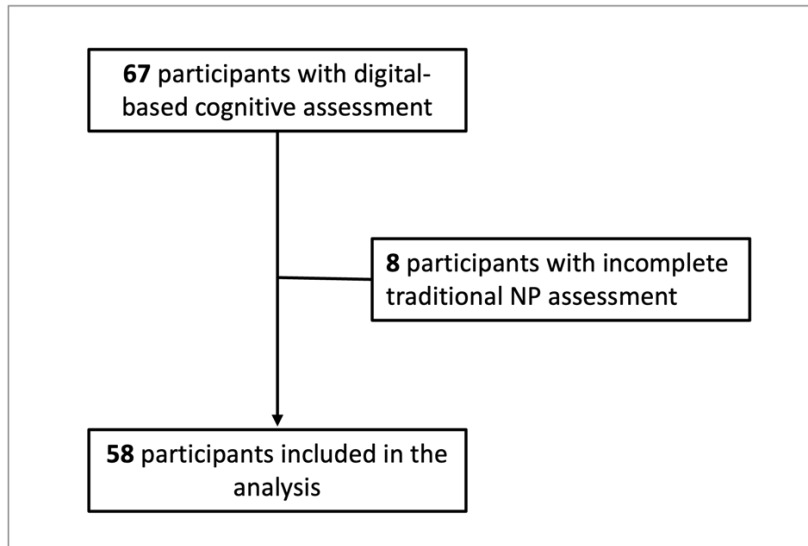|	**FHS** (n=309)		**BHS** (n=58)	
	B ± SE	p-value	B ± SE	p-value
Dana task - Code Substitution				
avg_responsetime_cs	-.001 (.0001)	**<0.001**	-.0002 (.0001)	**0.026**
meanrtcorrect_cs	-.001 (.0001)	**<0.001**	-.0002 (.0001)	**0.021**
meanthru_cs	.03 (.004)	**<0.001**	.01 (.01)	**0.025**
meanrt_cs	-.001 (.0001)	**<0.001**	-.0002 (.001)	**0.026**
Dana task - Go No Go.				
avg_responsetime_gng	-.001 .0002	**0.006**	-.001 (.0004)	**0.044**
meanrtcorrect_gng	-.001 .0002	**0.004**	-.001 (.0003)	**0.026**
meanthru_gng	.01 .001	**<0.001**	.01 (.002)	**0.025**
meanrt_gng	-.0004 .0002	0.057	-.001 (.0004)	**0.044**
Dana task - Simple Reaction Time				
avg_responsetime_srt	-.001 (.0004)	**0.001**	-.0003 (.0003)	0.333
meanrtcorrect_srt	-.001 (.0004)	**0.001**	-.0003 (.0005)	0.512
meanthru_srt	.003 (.001)	**0.003**	.001 (.001)	0.282
meanrt_srt	-.001 (.0004)	**0.001**	-.001 (.0004)	0.194

B: unstandardized coefficients, **SE:** standard errors and p-values are included for the association between the DANA measure and GCS adjusted for age and educational attainment proxy (WRAT 3 for FHS, and WRAT 4 for BHS).

Figure S1. Flowchart of study sample for FHS participants.

No significant differences were found in sex (p=0.36), age (p=0.37) or race(p=0.70)

Figure S2. Flowchart of study sample for BHS participants.

No significant differences were found in sex (p=0.66) and age (p=0.09), but significant differences in race were found (p=0.01). From the excluded participants, 2 self-reported as White, 3 as Black, and 3 more did not have data available.