

Supplementary Materials
Tables

Table S1. Distribution of NIH Toolbox-CB fully corrected T-scores

	Stroke CVA, N=26		Sickle Cell Disease SCD, N=64	
	n	M(SD)	n	M(SD)
NIH Toolbox-CB				
Flanker inhibitory control and attention	26	40.7 (7.4)	50	40.6 (10.2)
Pattern comparison processing speed	26	37.6 (16.0)	51	45.3 (15.3)
List sorting working memory	24	47.7 (8.8)	52	45.0 (9.4)
Picture sequence memory	26	45.7 (11.4)	51	52.1 (8.6)
Oral reading recognition	25	55.4 (9.8)	52	52.2 (9.8)
Picture vocabulary	26	53.1 (10.2)	52	53.5 (9.9)
Dimensional change card sort	25	45.9 (11.3)	50	41.8 (13.8)
Crystallized cognition composite score	25	55.0 (9.8)	48	52.8 (10.6)
Fluid cognition composite score	24	40.9 (11.7)	46	43.0 (12.3)
Total cognition composite score	24	47.6 (11.0)	46	48.0 (10.0)

Note. Fully corrected T-scores are adjusted for age, education, sex, and race/ethnicity.

Table S2. Percent agreement of impairment classification by subtest

NIH Toolbox	Legacy Measure	Sample	% Agreement
FL	CWI 3	CVA	67%
		SCD	59%
	CWI 4	CVA	73%
		SCD	66%
PCPS	Coding	CVA	69%
		SCD	60%
PSM	Figure Recall	CVA	81%
		SCD	81%
	Story Recall	CVA	77%
		SCD	74%
	List Recall	CVA	69%
		SCD	74%
ORR	WRAT4	CVA	-
		SCD	93%
DCCS	Trails 4	CVA	86%
		SCD	69%
	Fluency 3	CVA	75%
		SCD	66%
	CWI 4	CVA	72%
		SCD	64%