

Abstract

The Stroop Color and Word Test ("Stroop") is a classic, efficient test of executive functions, including inhibition and processing speed. The Stroop Normative Update is a newly released version of the Stroop, developed to:

- Retain the essential features of the current version, particularly administration procedures and scoring methods, to easily facilitate longitudinal research across versions
- Update the normative tables to reflect current adult U.S. demographics
- Use updated analytic techniques to examine psychometric properties
- Clarify administration, scoring, and interpretation procedures
- Update literature review with current research
- Develop scoring application with dynamic interpretation and reporting

		SCALE	DESCRIPTION	CALCULATION
RED	BLUE	WORD (W)	Rote word	# Words stated in
			processing	45 sec.
GREEN	GREEN			
XXXXX	XXXX	COLOR (C)	Rote color	# Colors stated in
			processing	45 sec.
XXXXX	XXXX			
RED	BLUE	COLOR-WORD (CW)	Inhibition of	# Colors stated in
RED	BLUE		competing stimuli	45 sec.
GREEN	GREEN			
		INTERFERENCE (INT)	Comparison of	CW – Predicted CW
			Color-Word	
			performance v.	
			expected (based on	
			Color and Word	
			performance)	

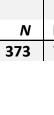
Methods & Materials

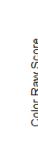
Administration Update

- Gather user feedback and user data
- Examine for themes and integrate with current standard administration Literature Review Update
- Identify research with Stroop since previous publication (2003)
- Focus on factors affecting administration, application in emerging settings Standardization
- Stroop Test with current administration procedures
- 373 participants ages 15-88, nationally representative
- Test-retest
- Concurrent measures-
 - Woodcock-Johnson Letter-Word (LW) and Word- Attack (WA)
 - Nonverbal Stroop Card Sorting Test (Nonverbal Stroop or NSCST)
 - Color-Trails Making Test (CTMT)

Contact

Brian Syzdek, Psy.D. | Product Manager | Stoelting-Psychology P 630-860-9700 E BSyzdek@StoeltingCo.com 620 Wheat Lane | Wood Dale, IL, USA 60191

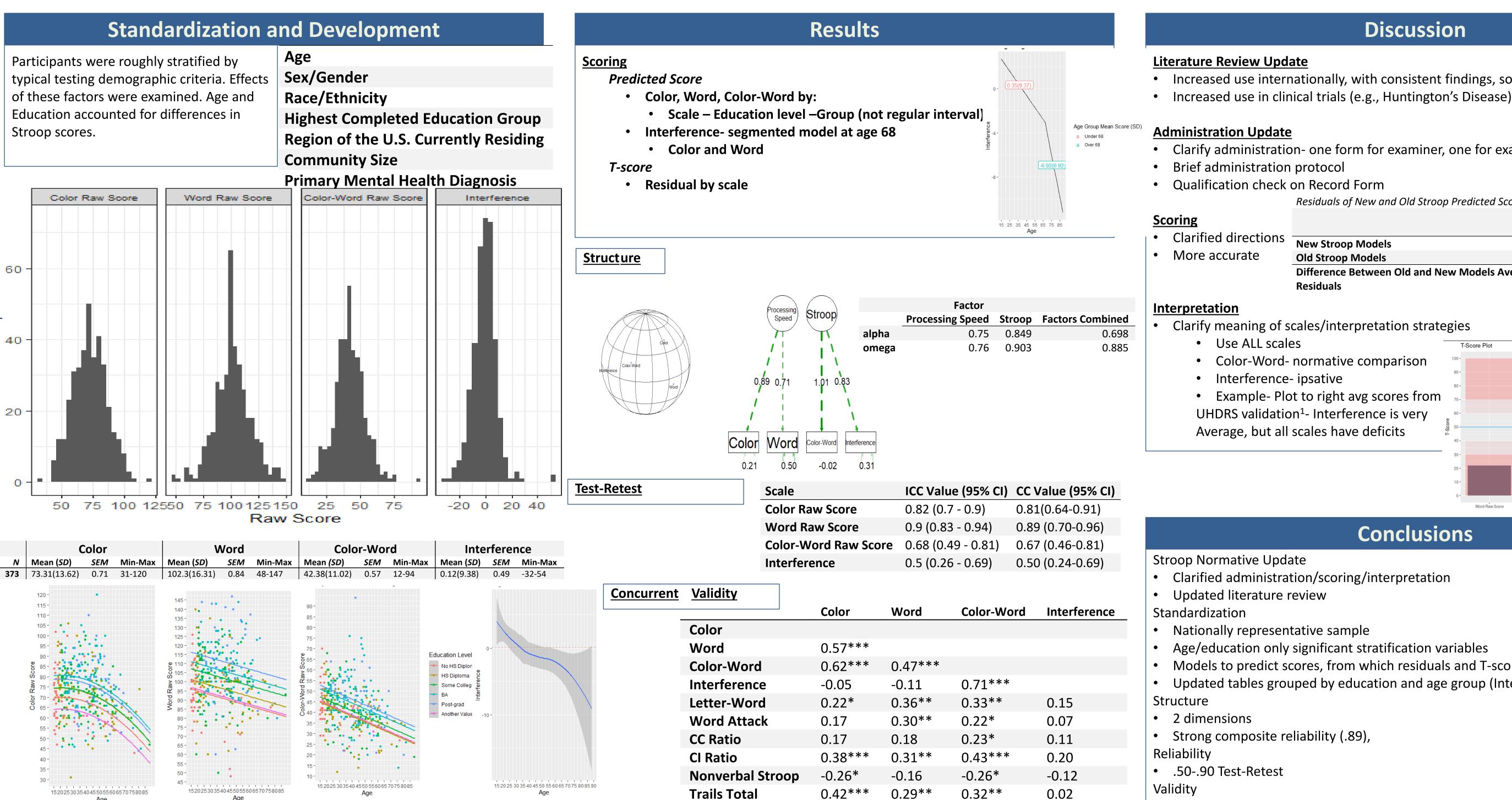




Age

Stroop Color and Word Test Normative Update: What to Know to Administer and Interpret

Brian Syzdek, PsyD¹ ¹Stoelting



References

Age

Age

Golden, C.J., Freshwater, S.M., Syzdek, B.M., Ailes, E.L. (2021). Stroop Color and Word Test Normative Update. Stoelting. ¹Unified Huntington's Disease Rating Scale: reliability and consistency. Huntington Study Group. (1996). Movement disorders : official journal of the Movement Disorder Society, 11(2), 136–142. https://doi.org/10.1002/mds.870110204 Stroop Information available at: <u>https://stoeltingco.com/stroop</u>

Note. NS = P > 0.05, * = P <= .05, ** = P <= .01, *** = P < 0.001



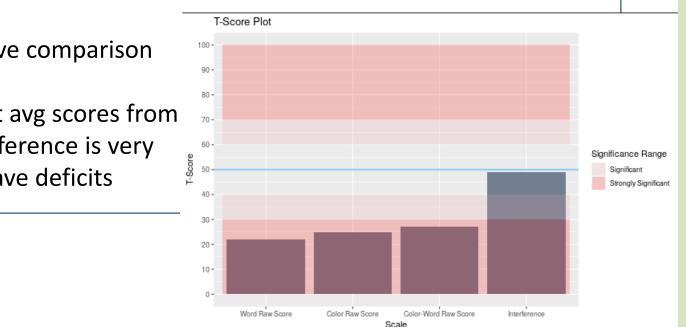
Discussion

• Increased use internationally, with consistent findings, some discrepancies by factors

• Clarify administration- one form for examiner, one for examinee

Residuals of New and Old Stroop Predicted Score Models

	Color	Word	Color-
			Word
p Models	9.75	11.63	7.57
Models	10.86	12.03	8.21
Between Old and New Models Average	1.11	0.40	0.65



Conclusions

- Models to predict scores, from which residuals and T-scores obtained
- Updated tables grouped by education and age group (Interference segmented)

• Correlation with concurrent measures