

Supplemental Material S2. Summary scores on all cognitive measures for the children with developmental language disorder (DLD) and typically developing (TD) controls, and Cohen's *d* (standardized mean difference) between the groups.

Factors/measures	DLD (<i>n</i> = 117)	TD (<i>n</i> = 117)	Cohen's <i>d</i>
Fluid reasoning			
Leiter Figure Ground ¹			
<i>M</i> (PR)	21.10	23.11	-0.53
<i>SD</i>	3.53	4.07	
Range	14–29	11–30	
Leiter Sequential Order ²			
<i>M</i> (PR)	28.47	34.13	-0.64
<i>SD</i>	9.77	7.92	
Range	7–44	8–47	
Leiter Repeated Patterns ³			
<i>M</i> (PR)	19.67	21.94	-0.56
<i>SD</i>	3.84	4.26	
Range	11–27	10–27	
Controlled attention			
Sustained Attention ⁴			
<i>M</i> (<i>P_r</i>)	.76	.82	-0.36
<i>SD</i>	.19	.14	
Range	.10–1.0	.26–1.0	
Attention Switching ⁵			
<i>M</i> (percent correct)	79.0	86.4	-0.54
<i>SD</i>	15.16	12.24	
Range	42–100	14–100	
Complex working memory			
WJ-AWM ⁶			
<i>M</i> (trials correct)	4.80	8.09	-1.05
<i>SD</i>	2.79	3.40	
Range	0–11	0–17	
High–Low ⁷			
<i>M</i> (percent trials correct)	54.55	72.05	-0.90
<i>SD</i>	19.24	19.48	
Range	3–90	18–100	
Long-term memory: Language knowledge			
TNL-R ⁸			
<i>M</i> (raw score)	27.97	31.73	-0.98
<i>SD</i>	4.12	3.53	
Range	16–35	18–37	
TNL-E ⁹			
<i>M</i> (raw score)	37.36	50.77	-1.08
<i>SD</i>	12.63	12.14	
Range	1–70	10–83	

- ¹Figure Ground subtest from Leiter International Performance Scale–Revised: Total raw score (Roid & Miller, 1997).
- ²Sequential Order subtest from Leiter International Performance Scale–Revised: Total raw score.
- ³Repeated Patterns subtest from Leiter International Performance Scale–Revised: Total raw score.
- ⁴Sustained Attention (adapted from Gordon, McClure, & Aylward, 1996): PR discrimination index (PR = Hits – False Alarms).
- ⁵Auditory Attention Switching: Percent trials correct (Evans, Gillam, & Montgomery, 2018).
- ⁶Auditory Working Memory: Woodcock-Johnson III: Total number of items correct (Woodcock, McGrew, & Mather, 2001).
- ⁷High–Low Task: Percent trials correct (Magimairaj & Montgomery, 2012, 2013).
- ⁸Test of Narrative Language–Receptive: Total raw score (Gillam & Pearson, 2004).
- ⁹Test of Narrative Language–Expressive: Total raw score.

References

- Evans, J. L., Gillam, R. B., & Montgomery, J. W. (2018). Cognitive predictors of spoken word recognition in children with and without developmental language disorders. *Journal of Speech, Language, and Hearing Research, 61*, 1409–1425.
- Gillam, R. B., & Pearson, N. (2004). *Test of Narrative Language*. Austin, TX: Pro-Ed.
- Gordon, M., McClure, F. D., & Aylward, G. P. (1996). *Gordon Diagnostic System interpretive guide*. De Witt, NY: GSI Publications.
- Magimairaj, B. M., & Montgomery, J. W. (2012). Children's verbal working memory: Relative importance of storage, general processing speed, and domain-general controlled attention. *Acta Psychologica, 140*, 196–207.
- Magimairaj, B. M., & Montgomery, J. W. (2013). Examining the relative contribution of memory updating, attention focus switching, and sustained attention to children's verbal working memory span. *Child Development Research, 2013*, Article ID 763808. <https://doi.org/10.1155/2013/763808>
- Roid, G., & Miller, L. (1997). *Leiter International Performance Scale–Revised*. Wood Dale, IL: Stoelting.
- Woodcock, R. W., McGrew, K. S., & Mather, N. (2001). *Woodcock-Johnson–III Tests of Achievement*. Rolling Meadows, IL: Riverside Publishing