

**Supplementary Table S3.** Current evidence of neurodevelopmental assessment tool for cognitive function

	Reliability (ICC, Cohen's kappa)	Internal consistency (Cronbach's alpha)	Content validity +, ?, -, 0	Criterion validity (correlation coefficient, MCID, sensitivity/specificity)	Construct validity +, ?, -, 0
BSID-III <sup>(a)</sup> -cognitive scale	+ Test-retest ICC=0.96	+ $\alpha=0.98$ (n=263)	+ +Preliminary standardization	+ p=0.69 (K-WPPSI global) p=0.40-0.80 (K-WPPSI subtest)	0
[1] n=263					
K-WPPSI-IV	+ Test-retest ICC=0.68-0.95	+ Fisher's z=0.71-0.92	+ Expert survey	+ p=0.47-0.80 (K-ABC) p=0.51-0.82 (K-CTONI-2)	0
[1] n=100					
[2] n=115	0	$\alpha=0.92$	Expert survey		0

ICC, intraclass correlation coefficient; MCID, minimal clinically important difference; BSID, Bayley Scales of Infant Development; K-WPPSI, Korean-Wechsler Preschool and Primary Scale Intelligence; K-ABC, Kaufman Assessment Battery for Children; K-CTONI, Korean-Comprehensive Test of Nonverbal Intelligence.  
<sup>a</sup>Version IV is also available in English from 2019; same five domains but scoring is changed from dichotomous to polytomous(2,1,0) with decreased number of items to make 30% less time needed to complete the assessment.

## SUPPLEMENTARY REFERENCES

### [BSID-III cognitive scale], BSID-IV is also available since 2021

[1] Oh SK, Bang HJ, Lee SH. A preliminary study for the standardization of the Korean Bayley Scale of Infant and Toddler Development, Third Edition -cognitive scale. Kor J Psychol:Gen 2014;27:117-40.

### [K-WPPSI-IV] K-WPPSI-V is also available since 2019

[1] Park H, Lee KO, Lee SH, Park M. A study on standardization of K-WPPSI-IV: analyses of reliability and validity. Korean J Child Educ 2016;12:111-30.  
 [2] Park H, Seo Y, Lee J. A study of concurrent validities of K-WPPSI-IV. Kor J Child Stud 2015;36:65-83.