

Supplementary Materials

Comparisons of the probability and effect sizes effect values by consecutives groups of the GDS-DS stages.

Table S1. Effect sizes between groups of the GDS-DS stages.

	GDS-DS stages											
	1-2			2-3			3-4			4-5		
	U	P	PS _{est}	U	P	PS _{est}	U	P	PS _{est}	U	P	PS _{est}
BRIEF- P												
BRI index	64,500	0.395	0.60^a	149.00	0.061	0.67^b	87.500	0.183	0.61	57.500	0.567	0.51
CAMCOG-DS												
Total score	79.500	0.938	0.51	91.500	0.010*	0.80^c	70.500	0.027*	0.69^b	38.000	0.088	0.68^b
Abstract thinking	71.00	0.595	0.56	166.00	0.139	0.63^a	110.000	0.549	0.51	41.000	0.129	0.65
TB-DI												
Orientation	71.00	0.314	0.62	97.000	0.002**	0.78^c	13.000	0.000***	0.94^c	33.500	0.057	0.71^c
Free delay memory (stories)	61.500	0.775	0.53	207.000	0.663	0.54	101.000	0.331	0.55	52.000	0.467	0.56^a
Semantic fluency (eat/drink)	75.500	0.856	0.52	180.000	0.265	0.60	114.000	0.906	0.49	43.500	0.114	0.63^a
Formal fluency	77.500	0.364	0.61	123.000	0.011*	0.73^c	76.500	0.118	0.66^b	66.000	0.716	0.44
Visual discrimination	63.500	0.733	0.54	189.000	0.367	0.58	99.000	0.363	0.56^a	49.000	0.305	0.58

GDS-DS, global deterioration scale for people with Down's syndrome ; BRIEF-P, behavior rating inventory of executive function parents form; BRI, behavioral regulation index; CAMCOG-DS, Cambridge cognitive examination for older adults with Down's syndrome and other intellectual disabilities; BT-DI, Barcelona test for intellectual disability; U, Mann-Whitney U test; P, *p* value; PS_{est}, probability of superiority effect size; * *p* < 0.05, ** *p* < 0.01, *** < 0.001; ^a PS_{est} ≥ 56, ^b PS_{est} ≥ 0,64, ^c PS_{est} ≥ 0,71. Significant effect sizes and *P* values with progressive decrease on the performance across the stages (Table 7) in bold.