

Supplementary Table 1. Raw data of baseline (pre-test) for all 14 tests in 20 subjects (10 in the ATG and 10 in the CG)

Subject	KNISE-DASP							Matrix sentence			K-CVLT			Digit span		WHOQOL-BREF
	Vowel	Consonant	Complete sentence	Target words	Sentence memory	Sentence sequence	Connected speech	Matrix sentence	MMSE-K	Immediate recall	Delayed recall	Forward	Backward	Forward	Backward	
ATG	1	90.48	80.00	80.00	97.50	79.37	55.56	75.00	80.00	28.00	5.00	7.00	6.00	3.00	51.83	
	2	85.71	53.33	90.00	95.00	80.95	44.44	67.86	88.00	27.00	7.00	7.00	6.00	4.00	68.55	
	3	85.71	83.33	60.00	80.00	58.73	44.44	60.71	76.00	24.00	5.00	5.00	3.00	2.00	60.00	
	4	100.00	66.67	90.00	95.00	80.95	77.78	67.86	64.00	25.00	3.00	5.00	6.00	3.00	63.88	
	5	95.24	86.67	60.00	85.00	73.02	66.67	67.86	92.00	26.00	4.00	5.00	5.00	4.00	63.62	
	6	85.71	86.67	80.00	87.50	90.48	88.89	75.00	84.00	28.00	5.00	6.00	8.00	4.00	74.31	
	7	80.95	56.67	90.00	97.50	82.54	66.67	78.57	58.00	27.00	4.00	6.00	5.00	5.00	54.69	
	8	85.71	73.33	70.00	90.00	82.54	44.44	57.14	72.00	25.00	6.00	6.00	5.00	2.00	59.50	
	9	80.95	60.00	60.00	92.50	71.43	55.56	64.29	54.00	24.00	4.00	6.00	4.00	3.00	76.52	
	10	100.00	70.00	90.00	97.50	77.78	66.67	75.00	82.00	25.00	4.00	5.00	6.00	4.00	49.29	
CG	11	85.71	83.33	60.00	80.00	58.73	44.44	75.00	76.00	28.00	5.00	6.00	5.00	2.00	52.02	
	12	85.71	53.33	70.00	85.00	74.60	44.44	60.71	72.00	26.00	4.00	6.00	4.00	4.00	62.79	
	13	100.00	83.33	90.00	97.50	95.24	77.78	67.86	84.00	26.00	5.00	6.00	6.00	4.00	53.21	
	14	90.48	80.00	70.00	92.50	73.02	66.67	75.00	80.00	25.00	4.00	7.00	5.00	3.00	57.14	
	15	85.71	70.00	90.00	97.50	92.06	88.89	60.71	78.00	26.00	4.00	4.00	5.00	4.00	62.07	
	16	85.71	66.67	90.00	90.00	77.78	66.67	60.71	80.00	25.00	6.00	7.00	6.00	4.00	79.33	
	17	90.48	50.00	80.00	95.00	66.67	55.56	60.71	68.00	24.00	5.00	6.00	4.00	2.00	57.69	
	18	95.24	83.33	80.00	90.00	90.48	55.56	78.57	64.00	27.00	5.00	5.00	5.00	4.00	86.79	
	19	85.71	63.33	70.00	90.00	73.02	44.44	71.43	54.00	24.00	3.00	5.00	6.00	4.00	55.76	
	20	85.71	80.00	80.00	95.00	80.95	77.78	71.43	88.00	29.00	5.00	5.00	6.00	3.00	64.55	

ATG, auditory treatment group; CG, control group; KNISE-DASP, Korea National Institute for Special Education-Developmental Assessment of Speech Perception; MMSE-K, Korean version of Mini-Mental Status Examination; K-CVLT, Korean California Verbal Learning Test; WHOQOL-BREF, Korean version of the World Health Organization Quality of Life Assessment Instrument Short Form.