

## Tables

**Table 1:** Demographic information of the four patients with aphasia

Patient number	Gender	Handedness	Etiology of stroke	Lesion localization (left hemisphere)	T1				T2			
					Weeks post stroke	Recovery stage	Age (years)	Aphasia type	Weeks post stroke	Recovery stage	Age (years)	Aphasia type
1.	male	right	H	Posterior temporal	0.7	(sub)acute	71.4	Weinicke	26.1	chronic	71.9	Amnestic
2.	male	right	I	Parietal, insula, caudate nucleus, globus pallidus	1.0	(sub)acute	46.6	Weinicke	48.9	chronic	47.6	Amnestic
3.	male	right	I	Parieto-temporal	1.0	(sub)acute	63.1	Weinicke	24.0	chronic	63.5	UC
4.	male	right	I	Parieto-temporal	1.4	(sub)acute	62.4	Weinicke	20.1	chronic	62.8	Amnestic

T1 = evaluation moment 1; T2= evaluation moment 2; H=hemorrhagic; I=ischemic; UC=unclassified

**Table 2:** Overview of the behavioral results (raw scores and percentiles) on five AAT subtests (Token Test, Repetition, Naming, Written Language and Language Comprehension), PALPA 1, 2 and 5 at both evaluation moments as well as the effect sizes between the two evaluation moments in patients 1-4.

AAT-subtests	Max.	Patient 1			Patient 2			Patient 3			Patient 4		
		T1	T2	T1-T2 (d)	T1	T2	T1-T2 (d)	T1	T2	T1-T2 (d)	T1	T2	T1-T2 (d)
Token Test (severity score)	0	41 (32)	7 (90)	-12.36***	43 (27)	22 (67)	-7.63***	46 (18)	8 (88)	-13.81***	23 (65)	14 (79)	-3.27*
Repetition	150	52 (15)	136 (83)	10.41**	75 (25)	139 (85)	7.93**	115 (58)	148 (98)	4.09**	75 (25)	134 (80)	7.31**
Naming	120	93 (70)	119 (100)	3.09*	82 (55)	112 (98)	3.56*	92 (69)	114 (99)	2.61*	82 (55)	108 (92)	3.09*
Written language	90	58 (57)	87 (95)	3.80*	64 (63)	90 (100)	3.41*	71 (70)	90 (100)	2.49	64 (63)	88 (97)	3.15*
Language comprehension	120	87 (55)	119 (100)	3.13*	91 (64)	115 (99)	2.34	83 (48)	116 (99)	3.22*	91 (64)	114 (98)	2.54
Phoneme discrimination pseudowords (PALPA 1)	36 <sup>a</sup>	36	36	0	26	34	9.70***	/	/	/	26	34	9.70***
Phoneme discrimination real words (PALPA 2)	36 <sup>a</sup>	35	36	1.33*	28	35	9.31***	/	/	/	28	35	9.31***
Auditory lexical decision (PALPA 5)	160	141	160	8.37***	126	154	12.33***	/	/	/	126	153	11.89***

Max.: maximum raw score; T1: evaluation moment 1; T2: evaluation moment 2; T1-T2 (d): Robey's d' effect size of behavioral changes between T1 and T2; \* small effect size > 2.60; \*\* medium effect size > 3.90; \*\*\* large effect size > 5.80; pc= percentile; <sup>a</sup>Aerts, A., Santens, P., & De Letter, M. (2012). Flemish normative data of the first column PALPA 1 and PALPA 2. Unpublished data; / : missing value

**Table 3:** Overview of the peak amplitude and latency values of the MMN (electrode positions Cz+Fz/2) and P300 (electrode position Pz) at both evaluation moments (T1 and T2). A comparison with the normative data (Aerts et al., 2013) is made.

Patient (age group)	ERP measures	Normative range (Aerts et al., 2013)	T1	T2
<b>Patient 1</b> (70+)	<b>MMN</b> Amplitude ( $\mu$ V) Latency (ms)	-1.52 – (-5.09) 134-214	-2.77 (0) 164 (0)	-5.16 (0) 143 (0)
	<b>P300</b> Amplitude ( $\mu$ V) Latency (ms)	7.73-15.61 358-580	9.71 (0) 510 (0)	5.20 (↓) 694 (↑)
<b>Patient 2</b> (40-49)	<b>MMN</b> Amplitude ( $\mu$ V) Latency (ms)	-0.37 – (-7.59) 141-219	-1.23 (0) 118 (0)	-0.95 (0) 136 (↓)
	<b>P300</b> Amplitude ( $\mu$ V) Latency (ms)	5.53 – 19.37 352-578	4.35 (↓) 348 (↓)	6.39 (0) 320 (0)
<b>Patient 3</b> (60-69)	<b>MMN</b> Amplitude ( $\mu$ V) Latency (ms)	-1.40 - (-7.89) 131-227	-2.22 (0) 118 (↓)	-2.11 (0) 259 (↑)
	<b>P300</b> Amplitude ( $\mu$ V) Latency (ms)	5.90 – 17.29 350-534	6.39 (0) 504 (0)	5.24 (↓) 480 (0)
<b>Patient 4</b> (60-69)	<b>MMN</b> Amplitude ( $\mu$ V) Latency (ms)	-1.40 - (-7.89) 131-227	-1.80 (0) 180 (0)	-2.85 (0) 157 (0)
	<b>P300</b> Amplitude ( $\mu$ V) Latency (ms)	5.90 – 17.29 350-534	8.95 (0) 598 (↑)	7.94 (0) 474 (0)

ERP = event-related potential; T1 = evaluation moment 1; T2= evaluation moment 2;  
MMN = Mismatch Negativity;  $\mu$ V = microvolt; ms = milliseconds; 0 = within normative range;  
↓ = reduced relative to normative range; (↑) = increased relative to normative range