

Supplemental Material S3. Demographic characteristics.

Demographic characteristics of the included behavioral and electrophysiological studies.

Table S1. Demographic characteristics of the cases in which initial complaints were reported and the cases in which language and speech assessments were administered.

Variant		Initial complaints				Initial assessments			
		All	NFV	SV	LV	All	NFV	SV	LV
# cases		152	44	37	11	82	20	19	4
# complaints or assessments		376	112	107	22	663	260	154	40
Sex	<i>N</i>	152	44	37	11	82	20	19	4
	Male	74	21	13	6	41	7	8	2
	Female	78	23	24	5	41	13	11	2
Handedness	<i>N</i>	108	35	23	9	61	17	12	3
	Right	102	33	21	8	57	16	10	3
	Left	6	2	2	1	4	1	2	0
Education (in years)	<i>N</i>	29	10	15	1	16	7	6	2
	Mean	10.8	8.3	12.9	-	11.2	8	13.2	16.5
	<i>SD</i>	5.2	3.3	5.8	-	4.9	3.1	5.4	2.1
Age at onset (in years)	<i>N</i>	139	39	29	11	75	17	16	3
	Mean	60.1	61.1	58.9	61	61.8	60.9	59.1	62.8
	<i>SD</i>	9.3	9.5	6.9	7.5	8	8.3	6.8	10.1
Disease duration (in months)	<i>N</i>	N/A	N/A	N/A	N/A	74	16	16	3
	Mean	N/A	N/A	N/A	N/A	24.3	26.1	24.1	10.3
	<i>SD</i>	N/A	N/A	N/A	N/A	11.7	12.8	11.6	9.3
Age (in years)	<i>N</i>	N/A	N/A	N/A	N/A	81	19	19	4
	Mean	N/A	N/A	N/A	N/A	63.9	63.5	61	64.8
	<i>SD</i>	N/A	N/A	N/A	N/A	7.9	8.1	7.2	8

Abbreviations: *NFV* = nonfluent variant; *SV* = semantic variant; *LV* = logopenic variant; # cases = number of cases, # number of initial complaints or assessments; *N* = total number; *SD* = standard deviation; *N/A* = not applicable.

Table S2. Demographic characteristics of the participants in the studies with group results in which initial complaints were reported.

Reference		Karbe et al. (1993)	Pijnenburg et al. (2004)	Pozzebon et al. (2018)			
Group		PPA	SV	NFV	SV	NFV	LV
# participants		10	17	8	6	2	5
Sex	Male	7	11	5	6	1	5
	Female	3	6	3	0	1	0
Handedness	Right	10	-	-	-	-	-
	Left	0	-	-	-	-	-
Education (in years)	Mean	-	-	-	-	-	-
	<i>SD</i>	-	-	-	-	-	-
Age at onset (in years)	Mean	70.3	-	-	-	-	-
	<i>SD</i>	9	-	-	-	-	-
Disease duration (in months)	Mean	2.3	-	-	-	-	-
	<i>SD</i>	-	-	-	-	-	-
Age (in years)	Mean	72.6	-	-	76	77	73.2
	<i>SD</i>	8.4	-	-	6.5	14.1	8.8

Abbreviations: *NFV* = nonfluent variant; *SV* = semantic variant; *LV* = logopenic variant; *PPA* = primary progressive aphasia; # participants = number of participants; *SD* = standard deviation.

Table S3. Demographic characteristics of the electrophysiological studies.

Reference	Group	Giaquinto & Ranghi (2009)		Hurley et al. (2009)		Hurley et al. (2012)			Grieder (2013)	
		PPA	HC	PPA	HC	NFV-LV	SV	HC	SV	HC
	# participants	1	15	20	15	24	9	23	5	19
Sex	Male	1	8	12	7	13	4	11	-	-
	Female	-	7	8	8	11	5	12	-	-
Handedness	Right	1	-	17	20	22	9	23	-	-
	Left	-	-	3	-	2	-	-	-	-
Education (in years)	Mean	-	12.5	16.6	16	16.2	15.4	15.7	13.6	13.9
	SD	-	2.5	-	-	2	2.7	2.6	2.9	3
Age at onset (in years)	Mean	68	N/A	-	N/A	-	-	N/A	-	N/A
	SD	-	N/A	-	N/A	-	-	N/A	-	N/A
Disease duration (in months)	Mean	24	N/A	>24	N/A	>24	>24	N/A	-	N/A
	SD	-	N/A	-	N/A	-	-	N/A	-	N/A
Age (in years)	Mean	70	65.1	62	62.7	66.5	62.3	63	65.8	69.5
	SD	-	6.2	5.1	6.2	8	6.5	6.3	3.8	3.1

Abbreviations: NFV = nonfluent variant; SV = semantic variant; LV = logopenic variant; PPA = patient group with primary progressive aphasia; HC = healthy control group; # participants = number of participants; SD = standard deviation; N/A = not applicable.

References

- Giaquinto, S., & Ranghi, F. (2009). Slowing of event-related potentials in primary progressive aphasia. A case report. *The Scientific World Journal*, 9, 633–638. <https://doi.org/10.1100/tsw.2009.67>
- Grieder, M., Crinelli, R. M., Jann, K., Federspiel, A., Wirth, M., Koenig, T., Stein, M., Wahlund, L.-O., & Dierks, T. (2013). Correlation between topographic N400 anomalies and reduced cerebral blood flow in the anterior temporal lobes of patients with dementia. *Journal of Alzheimer's Disease*, 36(4), 711–731. <https://doi.org/10.3233/JAD-121690>
- Hurley, R. S., Paller, K. A., Rogalski, E. J., & Mesulam, M.-M. (2012). Neural mechanisms of object naming and word comprehension in primary progressive aphasia. *Journal of Neuroscience*, 32(14), 4848–4855. <https://doi.org/10.1523/JNEUROSCI.5984-11.2012>
- Hurley, R. S., Paller, K. A., Wieneke, C. A., Weintraub, S., Thompson, C. K., Federmeier, K. D., & Mesulam, M.-M. (2009). Electrophysiology of object naming in primary progressive aphasia. *Journal of Neuroscience*, 29(50), 15762–15769. <https://doi.org/10.1523/JNEUROSCI.2912-09.2009>
- Karbe, H., Kertesz, A., & Polk, M. (1993). Profiles of language impairment in primary progressive aphasia. *Archives of Neurology*, 50(2), 193–201. <https://doi.org/10.1001/archneur.1993.00540020069020>
- Pijnenburg, Y. A. L., Gillissen, F., Jonker, C., & Scheltens, P. (2004). Initial complaints in frontotemporal lobar degeneration. *Dementia and Geriatric Cognitive Disorders*, 17(4), 302–306. <https://doi.org/10.1159/000077159>
- Pozzebon, M., Douglas, J., & Ames, D. (2018). Spousal recollections of early signs of primary progressive aphasia. *International Journal of Language & Communication Disorders*, 53(2), 282–293. <https://doi.org/10.1111/1460-6984.12347>