**Table S1**. Comparison between healthy controls (N = 17) and individuals with logopenic (lvPPA, N = 20) or nonfluent variant (nfvPPA, N = 14) Primary Progressive Aphasia on acoustic measures of speech (total N = 51), with 1 lvPPA and 7 nfvPPA cases with non-native English background excluded from the original 58 participant sample. Bold font indicates where a comparison changed from significant with the 58-participant sample to non-significant with the 51-participant sample. Note, that the PVI\_Duration measures survive as variables that significantly differentiate the lvPPA and nfvPPA groups, while no silence measures survive.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Measure** | **Omnibus test1** | **Group** | **Mean (SD)** | **Post-hoc tests** |
| Proportion Silence Time 1 | *F*(2,47) = 4.516, *P* = 0.016 | lvPPA | 0.59 (0.12) | lvPPA - nfvPPA ns |
|  |  | nfvPPA | 0.57 (0.15) | lvPPA – Control \* |
|  |  | Control | 0.48 (0.09) | **nfvPPA-Control ns** |
| Median Silence Duration (ms)  | *F*(2,47) = 10.495, *P* = 0.000 | lvPPA | 117.6 (33.5) | **lvPPA-nfvPPA ns** |
|  |  | nfvPPA | 147.0 (58.6) | lvPPA-Control \* |
|  |  | Control | 83.3 (27.2) | nfvPPA-Control \*\*\* |
| Variability of Silence Duration  | *F*(2,47) = 8.894, *P* = 0.000 | lvPPA | 78.5 (31.1) | **lvPPA-nfvPPA ns** |
|  |  | nfvPPA | 102.1 (50.1) | lvPPA-Control \* |
|  |  | Control | 49.7 (27.6) | nfvPPA-Control \*\*\* |
| Median PVI\_Duration\_WS  | *F*(2,47) = 5.817, *P* = 0.006 | lvPPA | 118.4 (15.5) | lvPPA-nfvPPA \*\* |
|  |  | nfvPPA | 92.2 (31.2) | lvPPA-Control ns |
|  |  | Control | 109.7 (18.9) | **nfvPPA-Control ns** |
| Median PVI\_Duration\_SW | *F*(2,47) = 6.515, *P* = 0.003 | lvPPA | 91.7 (14.6) | lvPPA-nfvPPA \*\* |
|  |  | nfvPPA | 66.0 (29.9) | lvPPA-Control ns |
|  |  | Control | 80.7 (16.0) | **nfvPPA-Control ns** |
|  Median PVI\_Intensity\_WS  | *F*(2,47) = 2.169, *P* = 0.126 |  |  |  |
| Median PVI\_Intensity\_SW  | *F*(2,47) = 0.066, *P* = 0.936 |  |  |  |

1 Proportion of silence arcsin transformed, Median Silence Duration and Variability of Silence Duration square root transformed, means represent nontransformed values; ns = nonsignificant, \**P* < 0.05, \*\* *P* < 0.01, \*\*\* *P* < 0.001. PVI = Pairwise Variability Index, WS = weak-strong words (e.g. potato), SW = strong-weak words (e.g. dinosaur).