

Table S1

Speaker demographics for the neurologically healthy control (HC) speaker group.

|                 | Group | Age   | Intelligibility (%) <sup>1</sup> |
|-----------------|-------|-------|----------------------------------|
| Female Speakers |       |       |                                  |
| HCF01           | HC    | 66    | 90.74                            |
| HCF02           | HC    | 54    | 83.33                            |
| HCF03           | HC    | 68    | 82.15                            |
| HCF04           | HC    | 56    | 93.36                            |
| HCF05           | HC    | 68    | 83.71                            |
| HCF06           | HC    | 65    | 84.74                            |
| HCF07           | HC    | 49    | 86.74                            |
| HCF08           | HC    | 65    | 80.29                            |
| HCF09           | HC    | 72    | 91.77                            |
| M               | —     | 62.56 | 86.31                            |
| SD              | —     | 7.68  | 4.62                             |
| Male Speakers   |       |       |                                  |
| HCM01           | HC    | 55    | 86.59                            |
| HCM02           | HC    | 49    | 63.64 <sup>2</sup>               |
| HCM03           | HC    | 51    | 81.91                            |
| HCM04           | HC    | 85    | 58.70 <sup>3</sup>               |
| HCM05           | HC    | 47    | 79.14                            |
| HCM06           | HC    | 68    | 84.32                            |
| HCM07           | HC    | 70    | 91.40                            |
| HCM08           | HC    | 53    | 81.05                            |
| HCM09           | HC    | 74    | 76.75                            |
| M               | —     | 61.33 | 78.17                            |
| SD              | —     | 13.29 | 10.60                            |

<sup>1</sup> The reported intelligibility (%) scores are aggregated from the Visual Analog Scale (VAS) ratings made for conversational speech samples in the current study.

<sup>2</sup> The HCM02 speaker, while healthy and intelligible, had a Spanish accent that likely influenced his intelligibility ratings. Further discussion about this speaker and the implications for his intelligibility ratings can be found in the limitations section.

<sup>3</sup> The HCM04 speaker, presented with a perceptually rough voice quality consistent with healthy aging. This voice quality likely influenced his intelligibility ratings.