Supplemental Figure 1. Item response frequency data for all individual items on VHI.



VHI, Voice Handicap Index; F, Functional Domain; P, Physical Domain; E, Emotional Domain

Supplementary Table 1.

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| **Supplementary Table 1**. Percentage of item response frequency for all individual items on VHI |
| Voice Handicap Index | Item Scoring Responses |
|   | 0: Never | 1: Almost Never | 2: Sometimes | 3: Almost Always | 4: Always |
| F2: People have difficulty understanding me in a noisy room. | 12.8% | 19.1% | 21.3% | 31.9% | 14.9% |
| F1: My voice makes it difficult for people to hear me. | 25.5% | 29.8% | 34.0% | 8.5% | 2.1% |
| F7: People ask me to repeat myself when speaking face-to-face. | 27.7% | 25.5% | 29.8% | 10.6% | 6.4% |
| P6: The clarity of my voice is unpredictable. | 42.6% | 27.7% | 19.1% | 6.4% | 4.3% |
| P1: I run out of air when I talk. | 42.6% | 27.7% | 27.7% | 0.0% | 2.1% |
| P2: The sound of my voice varies throughout the day. | 44.7% | 17.0% | 21.3% | 10.6% | 6.4% |
| F9: I feel left out of conversations because of my voice. | 44.7% | 25.5% | 23.4% | 2.1% | 2.1% |
| F3: My family has difficulty hearing me when I call them throughout the house. | 46.8% | 21.3% | 25.5% | 4.3% | 2.1% |
| P5: I feel as though I have to strain to produce voice. | 53.2% | 21.3% | 21.3% | 2.1% | 2.1% |
| E7: I feel annoyed when people ask me to repeat. | 55.3% | 19.1% | 17.0% | 6.4% | 2.1% |
| F5: I tend to avoid groups of people because of my voice. | 55.3% | 25.5% | 14.9% | 4.3% | 0.0% |
| F8: My voice difficulties restrict my personal and social life. | 57.4% | 14.9% | 23.4% | 2.1% | 2.1% |
| F4: I use the phone less often than I would like to. | 57.4% | 19.1% | 17.0% | 2.1% | 4.3% |
| P8: I use a great deal of effort to speak. | 57.4% | 19.1% | 19.1% | 2.1% | 2.1% |
| P4: My voice sounds creaky and dry. | 59.6% | 23.4% | 10.6% | 4.3% | 2.1% |
| P10: My voice “gives out” on me in the middle of speaking. | 59.6% | 25.5% | 10.6% | 2.1% | 2.1% |
| E4: My voice problem upsets me. | 61.7% | 21.3% | 12.8% | 2.1% | 2.1% |
| P9: My voice is worse in the evening. | 63.8% | 12.8% | 12.8% | 6.4% | 4.3% |
| E8: I feel embarrassed when people ask me to repeat. | 63.8% | 14.9% | 17.0% | 4.3% | 0.0% |
| E6: My voice makes me feels handicapped. | 66.0% | 14.9% | 10.6% | 2.1% | 6.4% |
| E3: I find other people don’t understand my voice problem. | 66.0% | 17.0% | 8.5% | 2.1% | 6.4% |
| P7: I try to change my voice to sound different. | 66.0% | 17.0% | 10.6% | 4.3% | 2.1% |
| E1: I am tense when talking to others because of my voice. | 68.1% | 10.6% | 17.0% | 2.1% | 2.1% |
| E5: I am less outgoing because of my voice problem. | 68.1% | 12.8% | 12.8% | 2.1% | 4.3% |
| E2: People seem irritated with my voice. | 70.2% | 19.1% | 4.3% | 4.3% | 2.1% |
| F6: I speak with friends, neighbors, or relatives less often because of my voice. | 74.5% | 14.9% | 8.5% | 2.1% | 0.0% |
| P3: People ask, “What’s wrong with your voice?” | 83.0% | 14.9% | 0.0% | 0.0% | 2.1% |
| E9: My voice makes me feel incompetent. | 85.1% | 10.6% | 4.3% | 0.0% | 0.0% |
| F10: My voice problem causes me to lose income. | 85.1% | 12.8% | 2.1% | 0.0% | 0.0% |
| E10: I am ashamed of my voice problem. | 91.5% | 4.3% | 2.1% | 2.1% | 0.0% |

VHI, Voice Handicap Index; F, Functional Domain; P, Physical Domain; E, Emotional Domain

Supplementary Figure 2. Item response frequency data for all individual items on EAT-10.



EAT-10, Eating Assessment Tool-10

Supplementary Table 2.

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| **Supplementary Table 2**. Percentage of item response frequency for all individual items on EAT-10 |
| EAT-10 | Item Scoring Responses |
|   | 0: Never | 1: Almost Never | 2: Sometimes | 3: Almost Always | 4: Always |
| 5. Swallowing pills takes extra effort. | 31.9% | 19.1% | 10.6% | 14.9% | 23.4% |
| 8. When I swallow food sticks in my throat. | 34.0% | 23.4% | 21.3% | 12.8% | 8.5% |
| 4. Swallowing solids takes extra effort. | 38.3% | 23.4% | 23.4% | 6.4% | 8.5% |
| 9. I cough when I eat. | 53.2% | 27.7% | 10.6% | 6.4% | 2.1% |
| 7. The pleasure of eating is affected by my swallowing. | 57.4% | 23.4% | 12.8% | 2.1% | 4.3% |
| 10. Swallowing is stressful. | 57.4% | 31.9% | 4.3% | 2.1% | 4.3% |
| 2. My swallowing problem interferes with my ability to go out for meals. | 63.8% | 8.5% | 12.8% | 6.4% | 6.4% |
| 3. Swallowing liquids takes extra effort. | 70.2% | 14.9% | 6.4% | 4.3% | 4.3% |
| 1. My swallowing problem has caused me to lose weight. | 76.6% | 14.9% | 4.3% | 2.1% | 2.1% |
| 6. Swallowing is painful. | 93.6% | 6.4% | 0.0% | 0.0% | 0.0% |

EAT-10, Eating Assessment Tool-10