Supplemental Table 1: Stability of synthetic datasets across ASHA domains.

| Domain | Study | Sample Size | P-value | Effect Size Measure | Effect Size | P-value Agreement | Effect Size Categorization Agreement |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Articulation | Thompson et al. (2023) | 40 | <.001 | Cohen’s f | .59 | 94% | 81% |
| Fluency | Elsherif et al. (2021) | 114 | <.001 | Glass' Δ | -2.18 | 100% | 100% |
| Voice and resonance | Novotný et al. (2016) | 111 | <.001 | Correlation coefficient | .51 | 100% | 46% |
| Hearing | Battal et al. (2019) | 372 | .016 | √(3/𝜋) x odds ratio | 1.56 | 78% | 100% |
| Communication modalities | King et al. (2022) | 463 | <.001 | Cohen's 𝜔 | 34.6 | 100% | 100% |
| Receptive and expressive language | Kearney et al. (2023) | 36 | <.001 | Correlation coefficient | .59 | 98% | 70% |
| Cognitive aspects of communication | Clough et al. (2023) | 8,568 | .013 | √(3/𝜋) x odds ratio | 1.85 | 35% | 100% |
| Social aspects of communication | Chanchaochai & Schwarz (2023) | 96 | <.001 | Cohen’s d | -.85 | 87% | 47% |