**Supplement Table1**  Model-based means for continuous outcomes after Bilateral CI and Unilateral CI

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Outcome a** | **Group** | **Baseline** | **1 mo** | **3 mo** | **6 mo** | **12 mo** |
| IT/MAIS total score | Bilateral CI | 13.54(7.56-19.52)a | **27.82****(21.06-34.59)** | **55.23****(46.66-63.79)** | **78.81****(70.75-86.88)** | 88.35(80.25-96.46) |
| Unilateral CI | 10.90(3.66-18.13) | **16.71****(9.06-24.36)** | **37.82****(28.77-46.87)** | **62.60****(54.07-71.14)** | 79.40(70.89-87.91) |
| Receptive vocabulary score | Bilateral CI | 1.78(-4.75-8.30) | 9.94 (-0.26-20.14) | 31.73 (22.53-40.92) | **68.72** **(58.47-78.97)** | 83.98(71.62-96.34) |
| Unilateral CI | 6.12 (-2.80-15.05)  | 7.16 (-4.30-18.62) | 24.61 (14.79-34.42) | **47.94****(37.98-57.90)** | 80.40 (71.31-89.49) |
| Expressive vocabulary score | Bilateral CI | 0.62(-0.24-1.48) | 1.28 (0.25-2.31) | 4.91(1.98-7.85) | 19.96(12.04-27.89) | 55.90(39.35-72.46) |
| Unilateral CI | 0.82(-0.26-1.89) | 0.79(-0.43-2.01) | 3.65(0.79-6.50) | 12.66(5.72-19.61) | 39.20(27.55-50.87) |

1. All values are predicted means (95% confidence intervals) from linear mixed model for all patients, adjusted for age at CI.
2. a Values in parentheses are 95% confidence intervals.
3. c Main effect of group, *p* values below 0.05 (bold) indicate significant difference between groups.