

Supplemental Material S1. Pairwise comparisons for the speech-to-noise (SNR) model results.

| Comparison | Noise | Contrast | Estimate | SE | df | t-ratio | p-value |
|-----------------------|--------------|----------------------|-----------------|-----------|-----------|----------------|----------------|
| Within Devices | NN vs. MN | No Device | 1.860 | 0.282 | 1371.989 | 6.603 | 0.000 |
| | | Device A | 3.950 | 0.287 | 1361.909 | 13.755 | 0.000 |
| | | Device B | 5.180 | 0.289 | 1366.862 | 17.897 | 0.000 |
| | | Device C | 12.070 | 0.296 | 1354.655 | 40.788 | 0.000 |
| No Device vs. Devices | NN | No device – Device A | -4.750 | 0.581 | 27.531 | -8.183 | 0.000 |
| | | No device – Device B | -7.610 | 0.513 | 29.781 | -14.838 | 0.000 |
| | | No device – Device C | -29.320 | 1.134 | 23.129 | -25.867 | 0.000 |
| | MN | No device – Device A | -2.660 | 0.592 | 29.785 | -4.496 | 0.002 |
| | | No device – Device B | -4.300 | 0.524 | 32.327 | -8.206 | 0.000 |
| | | No device – Device C | -19.110 | 1.139 | 23.580 | -16.785 | 0.000 |
| Across Devices | NN | Device A – Device B | -2.860 | 0.694 | 26.039 | -4.123 | 0.007 |
| | | Device A – Device C | -24.570 | 1.300 | 22.941 | -18.895 | 0.000 |
| | | Device B – Device C | -21.710 | 0.909 | 23.582 | -23.884 | 0.000 |
| | MN | Device A – Device B | -1.640 | 0.702 | 27.172 | -2.335 | 0.312 |
| | | Device A – Device C | -16.450 | 1.304 | 23.242 | -12.613 | 0.000 |
| | | Device B – Device C | -14.810 | 0.914 | 24.110 | -16.206 | 0.000 |