

Supplemental Table S3. Speech perception scores (% correct) for each listening condition.

	Children with cochlear implants								Students with typical hearing							
	SNR								SNR							
	<u>0</u>	<u>+3</u>	<u>+6</u>	<u>+9</u>	<u>+12</u>	<u>+15</u>	<u>+18</u>	<u>+21</u>	<u>-6</u>	<u>-3</u>	<u>0</u>	<u>+3</u>	<u>+6</u>	<u>+9</u>	<u>+12</u>	<u>+15</u>
<u>0.3 s RT</u>																
<i>M</i>	14.8	16.8	41.3	56.9	70.8	76.4	77.0	89.2	27.4	45.8	79.1	87.1	94.6	99.0	98.7	98.6
<i>SD</i>	19.6	13.7	21.7	22.5	15.2	13.5	16.1	9.8	19.6	25.6	24.3	14.7	14.4	2.7	2.5	3.1
<i>N</i>	12	22	23	23	23	23	23	22	20	23	23	23	23	23	18	10
<u>0.6 s RT</u>																
<i>M</i>	7.3	18.0	33.1	58.7	67.3	68.5	71.9	80.2	24.6	49.9	73.3	90.1	94.9	97.3	96.9	99.0
<i>SD</i>	5.8	11.5	21.3	17.9	19.0	19.8	17.1	17.3	15.5	24.9	24.0	14.2	6.5	7.2	6.6	2.6
<i>N</i>	14	21	23	23	23	23	22	21	20	23	23	23	23	23	16	12
<u>0.9 s RT</u>																
<i>M</i>	7.1	13.1	26.6	40.5	56.0	59.8	61.0	64.0	12.7	38.7	57.1	80.5	90.3	96.4	97.9	97.7
<i>SD</i>	10.3	12.0	17.2	22.4	18.7	17.7	16.7	15.6	10.9	27.0	26.1	18.6	12.0	7.6	4.2	3.7
<i>N</i>	11	18	22	23	23	23	23	22	18	23	23	23	23	23	23	11
<u>Sound Booth</u>																
<i>M</i>	18.2	38.1	50.0	72.8	80.4	86.3	90.4	91.3	16.6	35.4	60.3	85.6	91.9	95.3	99.2	99.5
<i>SD</i>	17.7	22.7	22.1	21.9	18.7	14.2	9.8	8.3	17.5	29.2	27.8	19.2	13.1	6.9	2.6	1.4
<i>n</i>	9	11	14	14	14	14	14	13	5	8	10	10	10	10	10	9

Note. SNR = speech-to-noise ratio (dBA); RT = reverberation time(s); *M* = mean speech perception score as percent correct; *SD* = standard deviation; *N* and *n* = number of participants. *N* and *n* varied as a result of adjustments in the 21-dB range of test SNRs to each participant's ability to perceive speech-in-noise.