**Supplemental Digital Content 1  
Characteristics of the participants in this study**

Note: the SRTDIN scores of participants included in the AHI and CHI subgroups (matched for outcome on SRTDIN) are in italic.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Participant** | **Age in years** | **Current PTA of 0.5, 1 and 2 kHz of the best ear in dB HL** | **Maximum aided word recognition score (CVC), measured at 60 to 75 dB SPL** | **Current hearing rehabilitation:**  **HA = hearing aid,**  **CI = cochlear implant** | **Oldest available PTA**  **of 0.5, 1 and 2 kHz**  **of the best ear in dB HL** | **Mean SRTDIN in dB SPL** | **Level of education:**  **L = Low, M = Middle, H = High (CBS 2015)** | **Primary school:**  **R = regular, HI = school for people with hearing impairment** | **Secondary school:**  **R = regular, HI = school for people with hearing impairment** |
| NH01 | 18 | 3 |  |  |  |  | H | R | R |
| NH02 | 23 | 1 |  |  |  |  | H | R | R |
| NH03 | 19 | 3 |  |  |  |  | H | R | R |
| NH04 | 19 | -2 |  |  |  |  | H | R | R |
| NH05 | 23 | 2 |  |  |  |  | H | R | R |
| NH06 | 30 | 2 |  |  |  |  | M | R | R |
| NH07 | 32 | 13 |  |  |  |  | M | R | R |
| NH08 | 32 | 2 |  |  |  |  | H | R | R |
| NH09 | 28 | 0 |  |  |  |  | M | R | R |
| NH10 | 41 | 2 |  |  |  |  | H | R | R |
| NH11 | 41 | 3 |  |  |  |  | M | R | R |
| NH12 | 41 | 5 |  |  |  |  | M | R | R |
| NH13 | 37 | 3 |  |  |  |  | M | R | R |
| NH14 | 46 | 5 |  |  |  |  | M | R | R |
| NH15 | 19 | 3 |  |  |  |  | M | R | R |
| NH16 | 21 | 0 |  |  |  |  | M | R | R |
| NH17 | 22 | -3 |  |  |  |  | M | R | R |
| NH18 | 57 | 3 |  |  |  |  | L | R | R |
| NH19 | 33 | 10 |  |  |  |  | M | R | R |
| NH20 | 53 | 2 |  |  |  |  | H | R | R |
| NH21 | 56 | 13 |  |  |  |  | M | R | R |
| NH22 | 57 | 12 |  |  |  |  | H | R | R |
| CHI01 | 21 | n.a. | 90 | CI | 60 | *1.1* | M | HI | HI |
| CHI02 | 49 | n.a. | 85 | CI | 85 | *0.5* | M | HI | R |
| CHI03 | 27 | 95 | 74 | HA | 73 | 10.7 | H | HI | R |
| CHI04 | 19 | 55 | 100 | HA | 55 | *-5.0* | H | R | R |
| CHI05 | 39 | 87 | 82 | HA | 55 | 6.1 | H | R | R |
| CHI06 | 28 | 60 | 99 | HA | 35 | *-2.7* | H | R | R |
| CHI07 | 43 | 68 | 90 | HA | 60 | *-3.7* | M | HI | R |
| CHI08 | 33 | n.a. | 97 | CI | 93 | 4.7 | M | HI | HI |
| CHI09 | 34 | 98 | 80 | HA | 75 | *0.4* | M | HI | HI |
| CHI10 | 46 | 87 | 84 | HA | 56 | *-5.7* | H | R | R |
| CHI11 | 28 | 92 | 96 | HA | 63 | 3.4 | H | R | R |
| CHI12 | 31 | 80 | 84 | HA | 62 | *2.5* | H | HI | R |
| CHI13 | 31 | 72 | 73 | HA | 65 | *-3.0* | H | HI+R | HI+R |
| CHI14 | 40 | 82 | 78 | HA | 68 | *0.7* | H | R | R |
| CHI15 | 49 | n.a. | 92 | CI | 85 | *0.5* | M | HI | HI |
| CHI16 | 27 | 88 | 76 | HA | 73 | *1.8* | H | HI+R | R |
| CHI17 | 23 | 95 | 84 | HA | 75 | *-0.2* | H | HI | HI |
| CHI18 | 52 | n.a. | 79 | CI | 85 | 4.4 | M | HI | HI |
| CHI19 | 26 | 80 | 96 | HA | 75 | *2.8* | M | HI | HI+R |
| CHI20 | 53 | 85 | 74 | HA | 85 | 4.2 | H | HI | HI+R |
| CHI21 | 56 | n.a. | 100 | CI | 100 | *-1.4* | L | HI | HI |
| AHI01 | 58 | n.a. | 94 | CI | n.a. | -4.4 | H | R | R |
| AHI02 | 56 | 63 | 85 | HA | n.a. | *6.3* | H | R | R |
| AHI03 | 50 | n.a. | 99 | CI | n.a. | *-2.1* | H | R | R |
| AHI04 | 46 | 50 | 99 | HA | n.a. | -6.5 | H | R | R |
| AHI05 | 47 | 50 | 99 | HA | n.a. | -4.7 | M | R | R |
| AHI06 | 52 | 73 | 85 | HA | n.a. | *4.1* | H | R | R |
| AHI07 | 59 | 48 | 97 | HA | n.a. | *-3.9* | M | R | R |
| AHI08 | 54 | 52 | 100 | HA | n.a. | -7.5 | H | R | R |
| AHI09 | 58 | 53 | 94 | HA | n.a. | -4.6 | H | R | R |
| AHI10 | 57 | 57 | 98 | HA | n.a. | *-3.2* | M | R | R |
| AHI11 | 34 | 93 | 94 | HA | n.a. | *-3.9* | M | R | R |
| AHI12 | 58 | 68 | 94 | HA | n.a. | *-3.7* | H | R | R |
| AHI13 | 57 | 68 | 97 | HA | n.a. | -6.2 | L | R | R |
| AHI14 | 56 | 82 | 76 | HA | n.a. | *2.9* | L | R | R |
| AHI15 | 43 | 72 | 85 | HA | n.a. | *-0.2* | H | R | R |
| AHI16 | 49 | 68 | 96 | HA | n.a. | *-1.5* | M | R | R |
| AHI17 | 51 | n.a. | 90 | CI | n.a. | *-3.0* | M | R | R |
| AHI18 | 58 | 97 | 82 | HA | n.a. | *-0.1* | H | R | R |
| AHI19 | 58 | 92 | 61 | HA | n.a. | 7.2 | M | R | R |
| AHI20 | 38 | 58 | 97 | HA | n.a. | *1.1* | H | R | R |
| AHI21 | 55 | n.a. | 85 | CI | n.a. | *-1.4* | H | R | R |
| AHI22 | 41 | n.a. | 87 | CI | n.a. | *2.7* | L | R | R |