

Supplemental Material S4. Tables showing the results from the multiple linear regression models before outlier removal.

Table B. Linear multiple regression predicting subjective auditory function (SSQ-12 scores) before model outliers with Cook's distance $>4/n$ were removed. SSQ-12 score \sim Age-group + Assigned sex + Depression + Social isolation + Auditory engagement + Lifestyle engagement.

Predictors	β	t	p corrected	Cohen's f
Age-group	0.47	2.23	.16	0.13
Sex	-0.34	-1.70	.36	0.13
Depression	-0.03	-1.67	.36	0.21
Social isolation	-0.26	-2.11	.18	0.16
Auditory engagement	0.01	0.97	.66	0.07
Lifestyle engagement	-0.0003	-0.05	.96	0.003
<i>Notes: β = unstandardized; SSQ-12 = Speech and Spatial Qualities of Hearing Scale.</i>				

Table C. Linear multiple regression predicting behavioral auditory function (speech-in-noise task scores) before model outliers with Cook's distance $>4/n$ were removed. Speech-in-noise task score \sim Age-group + Assigned sex + Depression + Social isolation + Auditory engagement + Lifestyle engagement.

Predictors	β	t	p corrected	Cohen's f
Age-group	-4.30	-8.10	$< .001$	0.55
Sex	-0.06	-0.11	$> .99$	0.003
Depression	0.04	0.91	$> .99$	0.09
Social isolation	0.23	0.75	$> .99$	0.02
Auditory engagement	0.04	1.32	.94	0.06
Lifestyle engagement	-0.02	-1.10	$> .99$	0.07
<i>Notes: β = unstandardized; SSQ-12 = Speech and Spatial Qualities of Hearing Scale.</i>				

Table D. Linear multiple regression predicting global cognition before model outliers with Cook's distance $>4/n$ were removed. Global cognition \sim Age Group + Assigned Sex + Depression + Social isolation + SSQ-12 score + Speech-in-noise task score + Auditory engagement + Lifestyle engagement.

Predictors	β	t	p corrected	Cohen's f
Age-group	0.31	3.31	<.001	0.49
Sex	0.02	0.25	>.99	0.02
Depression	0.002	0.28	>.99	0.05
Social isolation	0.07	1.47	.71	0.07
Auditory engagement	-0.0002	-0.05	>.99	0.08
Lifestyle engagement	-0.006	-2.18	.18	0.13
SSQ-12 score	0.04	1.33	.74	0.14
Speech-in-noise score	-0.03	-2.94	.03	0.20
<i>Notes: β = unstandardized; SSQ-12 = Speech and Spatial Qualities of Hearing Scale.</i>				