

Supplementary Online Content

Mahboubi H, Lin HW, Bhattacharyya N. Prevalence, characteristics, and treatment patterns of hearing difficulty in the united states [published online November 22, 2017]. *JAMA Otolaryngol Head Neck Surg*. doi:10.1001/jamaoto.2017.2223

eTable 1. Self-reported functional hearing status based on age decades

eTable 2. Reported etiology of hearing difficulty in adults with “less-than-good” hearing (universe: 18+ year olds with “less-than-good,” hearing not “excellent” or “good”, or those who reported “good” hearing, but hear worse in one ear than the other)

This supplementary material has been provided by the authors to give readers additional information about their work.

Supplemental Table 1. Self-reported functional hearing status based on age decades.

	Can hear whisper	Can hear normal voice	Can hear shouting voice	Can hear speaking loudly into good ear	Cannot hear speaking loudly into good ear
Age Decade	% ± SE*	% ± SE*	% ± SE*	% ± SE*	% ± SE*
18-19 years	91.9 ± 1.3	7.2 ± 1.3	0.8 ± 0.4	0.0 ± 0.0	0.0 ± 0.0
20-29 years	92.4 ± 0.5	6.9 ± 0.4	0.5 ± 0.1	0.2 ± 0.1	0.1 ± 0.1
30-39 years	91.1 ± 0.6	7.2 ± 0.5	1.4 ± 0.3	0.3 ± 0.1	0.1 ± 0.0
40-49 years	86.2 ± 0.6	11.2 ± 0.6	2.0 ± 0.2	0.3 ± 0.1	0.3 ± 0.1
50-59 years	81.5 ± 0.8	15.2 ± 0.8	2.4 ± 0.2	0.5 ± 0.1	0.5 ± 0.1
60-69 years	72.4 ± 0.8	20.0 ± 0.8	5.8 ± 0.4	1.1 ± 0.3	0.7 ± 0.2
70-79 years	64.3 ± 1.1	24.3 ± 1.0	8.7 ± 0.6	1.4 ± 0.2	1.2 ± 0.2
80-89 years	48.2 ± 1.5	28.1 ± 1.3	16.4 ± 1.1	3.5 ± 0.5	3.8 ± 0.5

* SE: standard error

Supplemental Table 2. Reported etiology of hearing difficulty in adults with “less-than-good” hearing (universe: 18+ year olds with “less-than-good,” hearing not “excellent” or “good”, or those who reported “good” hearing, but hear worse in one ear than the other).

	N (Millions)	SE*	%	SE
Primary cause of hearing loss				
Aging	15.4	0.4	31.4	0.8
Long term noise exposure	12.3	0.4	25.2	0.7
Other causes	5.9	0.2	12.1	0.5
Loud, brief noise (i.e. gunfire, explosion)	4.5	0.3	9.3	0.5
Otitis media or eardrum perforation	4.1	0.2	8.3	0.5
Ear injury or head/neck trauma	1.5	0.1	3.0	0.3
Congenital, genetic	1.3	0.1	2.6	0.3
Sudden hearing loss, idiopathic	1.1	0.2	2.3	0.5
Congenital, other	0.6	0.1	1.1	0.2
After birth, infectious disease	0.5	<0.1	1.1	0.2
Ear disease (i.e. otosclerosis or Meniere’s)	0.5	<0.1	1.0	0.2
Ear surgery	0.4	0.1	0.8	0.2
Medications	0.4	<0.1	0.7	0.1
Congenital, infectious	0.3	<0.1	0.6	0.1
Brain tumor (i.e. vestibular schwannoma)	0.2	<0.1	0.3	0.1

* SE: standard error