Supplemental Online Content

Reed NS, Garcia-Morales EE, Myers C, et al. Prevalence of hearing loss and hearing aid use among US Medicare beneficiaries aged 71 years and older. *JAMA Netw Open.* 2023;6(7):e2326320. doi:10.1001/jamanetworkopen.2023.26320

eTable 1. Prevalence Estimates of Adults ≥71 Years in the United States With Hearing Loss According to Updated World Health Organization Hearing Severity Categories^a by Age: National Health Aging Trends Study^b

eTable 2. Number Estimates of Adults ≥71 Years in the United States With Hearing Loss by Sex, Race/Ethnicity, and Age: National Health Aging Trends Study^a

eTable 3. Prevalence and Number Estimates of Hearing Aid Use Among Adults ≥71 Years With Hearing Loss in the United States by Select Sociodemographic Characteristics: National Health Aging Trends Study^a

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

		Pre	evalence, % (95%	CI)	
		Hearing Lo	oss Category		_
e, y	Mild	Moderate	Moderately- Severe	≥Severe	Any HL
74y	48.9	21.6	5.7	0.8	76.9
/ -	(130538)	(160, 263)	(2885)	$(0117)^{\circ}$	(73 1 80 7)

eTable 1. Prevalence Estimates of Adults >71 Years in the United States With Hearing Loss According to Updated World

(2.8, 8.5)

8.7

(6.8, 10.6)

14.6

(11.1, 18.1)

20.1

(16.6, 23.7)

35.5

(29.3, 41.7)

10.3

(8.9, 12.0)

(-0.1, 1.7)^c

2.1

(0.7, 3.4)

4.0

(2.2, 5.7)

7.8

(5.4, 10.1)

15.1

(10.8, 19.3)

2.8

(2.2, 3.5)

(73.1, 80.7)

82.9

(79.5, 86.2)

89.9

(87.1, 92.8)

96.8

(95.4, 98.3)

99.7

(99.1, 100)

83.3

(81.5, 85.0)

Note. CI=confidence interval; y=years; HL=Hearing loss.

(43.9, 53.8)

43.7

(39.2, 48.1)

36.2

(32.0, 40.4)

29.7

(24.5, 35.0)

12.6

(8.5, 16.7)

42.3

(39.2, 45.4)

75-79y

80-84y

85-89y

≥90y

Overall

Source. National Health Aging Trends Study. Data weighted according to study guidelines.

(16.9, 26.3)

28.4

(24.6, 32.3)

35.2

(30.5, 39.9)

39.3

(34.5, 44.1)

36.5

(30.6, 42.3)

27.9

(25.4, 30.6)

^a Hearing loss severity is defined based on a four-frequency (0.5/1/2/4 kHz) pure tone average threshold for the better-hearing ear (no hearing loss : <20 dB HL, mild: 20-34.9 dB HL, moderate 35-49.9 dB HL, moderately severe 50-64.9 dB HL, severe or greater ≥65 dB HL) ^bNHATS 2021 cycle N=2803

^c Weighted estimate based on less than 10 individuals per cell either in the hearing loss or normal hearing group in the unweighted data.

eTable 2. Number Estimates of Adults \geq 71 Years in the United States With Hearing Loss by Sex, Race/Ethnicity, and Age: National Health Aging Trends Study^a

	Number with hearing loss (millions) (95% CI) ^b								
-	Se	X	Race/Ethnicity ^c						
Age, y	Female	Male	White	Black	Hispanic				
71-75y	2.8	3.1	5.2	0.3	0.2				
	(2.4, 3.2)	(2.7, 3.5)	(4.5, 5.9)	(0.2, 0.4)	(0.0, 0.5) ^d				
75-80y	3.1	3.0	5.2	0.3	0.4				
	(2.8, 3.4)	(2.7, 3.3)	(4.8, 5.5)	(0.2, 0.3)	(0.3, 0.6)				
80-85y	2.3	2.2	3.8	0.4	0.2				
	(2.2, 2.5)	(2.1, 2.4)	(3.6, 4.1)	(0.3, 0.4)	(0.1, 0.2) ^d				
≥85y	3.5	2.0	4.6	0.3	0.3				
	(3.4, 3.6)	(1.9, 2.0)	(4.5, 4.8)	(0.3, 0.3)	(0.2, 0.3) ^d				
Overall	11.4	10.0	18.3	1.3	1.2				
	(10.7, 12.1)	(9.3, 6.8)	(17.2, 19.2)	(1.2, 1.5)	(0.9, 1.5)				

Note. CI=confidence interval; y=years. Hearing loss severity is defined based on a four-frequency (0.5/1/2/4 kHz) pure tone average threshold for the better-hearing ear (no hearing loss : $\leq 25 \text{ dB HL}$, mild: 26-40 dB HL, moderate: 41-60, and severe or greater >60 dB HL)

Source. National Health Aging Trends Study. Data weighted according to study guidelines.

^aNHATS 2021 cycle N=2803

^b Population numbers were computed using the estimated prevalence rate and the population totals by age group in the continental USA according to data from the 2020 Census Bureau, American Community Survey

^c Prevalence estimates by race/ethnicity are only presented for the 3 largest racial/ethnic groups. Individuals from all racial/ethnic groups were included in all other prevalence estimations.

^d Weighted estimate based on less than 10 individuals per cell either in the hearing loss or normal hearing group in the unweighted data.

	Prevalence, %	Number (millions)
	(95% CI)	(95% CI) ^b
Overall	29.2	6.4
	(26.6, 31.9)	(5.8, 7.1)
Age, y	28.2	17
71-75y	28.2	1.7
•	(21.8, 35.5) 25.5	(1.2, 2.2) 1.6
75-80y	(22.1, 29.3)	(1.4, 1.9)
	31.2	1.4
80-85y	(27.3, 35.3)	(1.2, 1.6)
	36.9	2.0
≥85y	(33.2, 40.8)	(1.8, 2.2)
Hearing Loss Severity		
	14.4	1.7
Mild	(11.1, 18.3)	(1.2, 2.2)
	45.3	3.6
Moderate	(40.5, 50.1)	(3.1, 4.0)
	67.9	0.9
\geq Severe	(58.8, 75.9)	(0.6, 1.1)
Sex		
	35.1	3.6
Male	(30.6, 39.9)	(3.0, 4.1)
Famala	23.4	2.7
Female	(20.6, 26.4)	(2.4, 3.1)
Race/Ethnicity ^c		
White	32.1	d
White	(29.2, 35.1)	_
Black	8.4	d
DIACK	(5.3, 13.0)	
Hispanic	20.2	d
-	(10.0, 36.7)	-
Education		
High school or less	23.2	d
ringii school of less	(19.6, 27.3)	-
Some college	27.4	d
Some conege	(23.0, 32.4)	—
College diploma or greater	37.5	d
	(31.0, 44.5)	—
Income (Poverty Line)		
<100%	14.6	d
100/0	(10.6, 19.7)	—
100-200%	20.5	d
	(16.4, 25.2)	—
>200%	35.5	d
Net CL confidence internal a comm	(31.8, 39.3)	

eTable 3. Prevalence and Number Estimates of Hearing Aid Use Among Adults \geq 71 Years With Hearing Loss in the United States by Select Sociodemographic Characteristics: National Health Aging Trends Study^a

Note. CI=confidence interval; y=years. Hearing loss severity is defined based on a four-frequency (0.5/1/2/4 kHz) pure tone average threshold for the better-hearing ear ≥ 25 dB HL.

Source. National Health Aging Trends Study. Data weighted according to study guidelines.

^aNHATS 2021 cycle N=2004 participants with hearing loss

^bPopulation numbers were computed using the estimated prevalence rate and the population totals by age group in the continental USA according to data from the 2020 Census Bureau, American Community Survey

^cPrevalence estimates by race/ethnicity are only presented for the 3 largest racial/ethnic groups. Individuals from all racial/ethnic groups were included in all other prevalence estimations.

^dDid not estimate total number.