

## Supplementary Online Content

Paulsen AJ, Fischer ME, Pinto A, et al. Incidence of hearing impairment and changes in pure-tone average across generations. *JAMA Otolaryngol Head Neck Surg*. Published online November 19, 2020. doi:10.1001/jamaoto.2020.4352

**eTable 1.** Age, Sex, and Generation by Inclusion Status

**eFigure.** Baseline Age by Generation, Defined by Birth Year

**eTable 2.** Sex-stratified Sensitivity Analyses of Incident Hearing Impairment and PTA Change (per 5 Years) by Generation of Birth

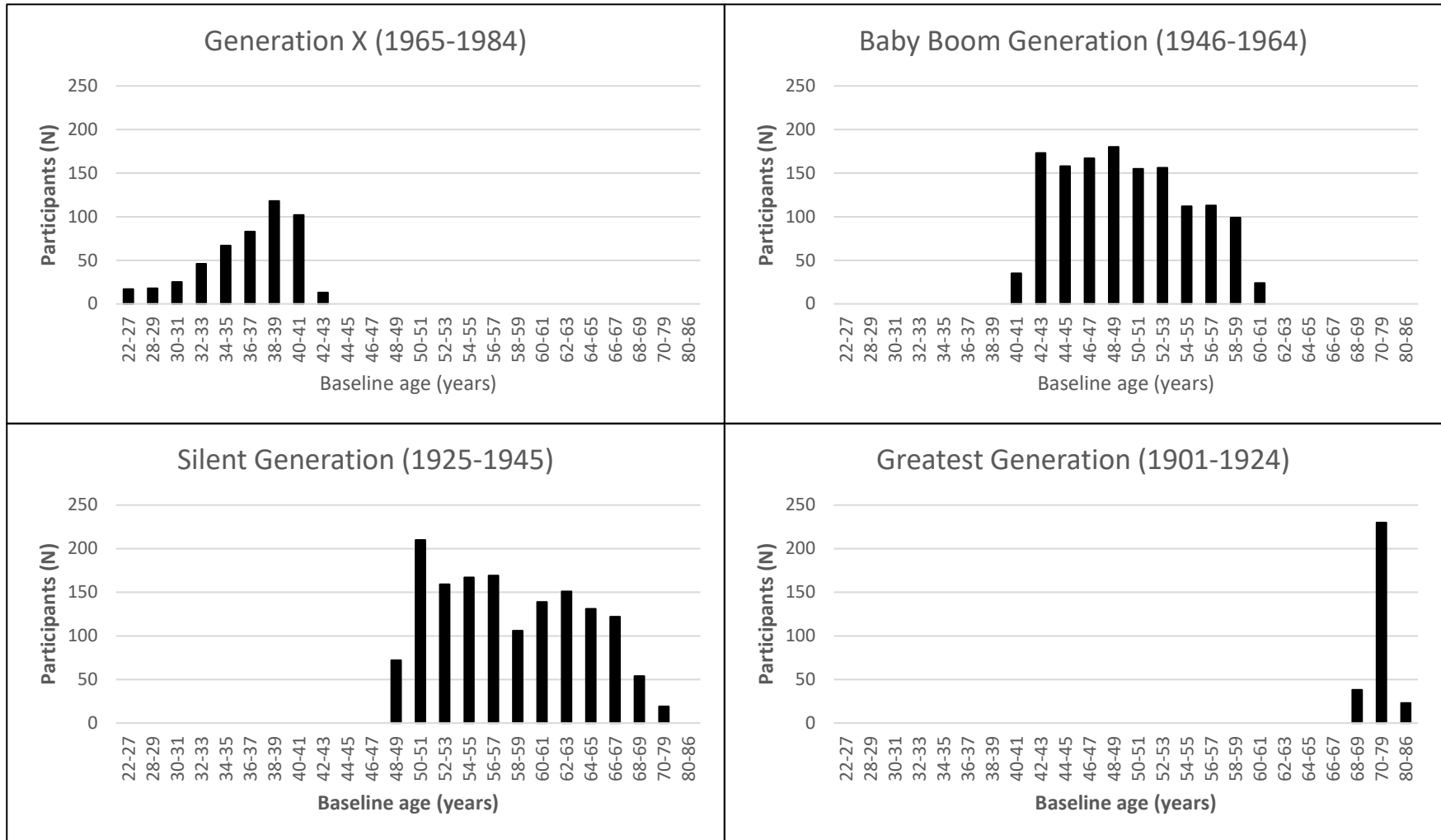
**This supplementary material has been provided by the authors to give readers additional information about their work.**

	Included	Excluded <sup>a</sup>
N	3651	675
Age (range)	53.1 (22-86)	54.2 (21-86)
Women, N (%)	2255 (61.8)	421 (62.4)
Generation, N (%)		
Greatest (1901-1924)	291 (7.8)	97 (14.4)
Silent (1925-1945)	1499 (41.1)	222 (32.9)
Baby Boom (1946-1964)	1372 (37.6)	240 (35.6)
Generation X (1965-1984)	489 (13.4)	116 (17.2)

**eTable 1.** Age, Sex, and Generation by Inclusion Status

<sup>a</sup> Exclusion due to lack of necessary follow-up examinations

eFigure. Baseline age by generation, defined by birth year.<sup>a</sup>



<sup>a</sup> Age grouped to ensure ≥ 10 participants per observed age.

	Women	Men
5-year incidence	RR (95% CI)	
Per generation	0.78 (0.60, 1.03)	0.80 (0.60, 1.05)
Silent Generation	0.73 (0.51, 1.07)	0.78 (0.53, 1.16)
Baby Boom Generation	0.61 (0.36, 1.06)	0.62 (0.35, 1.10)
Generation X	0.46 (0.11, 1.86)	0.54 (0.20, 1.46)
10-year cumulative incidence	HR (95% CI)	
Per generation	0.88 (0.70, 1.12)	0.86 (0.68, 1.08)
Silent Generation	0.82 (0.59, 1.13)	0.73 (0.47, 1.13)
Baby Boom Generation	0.77 (0.48, 1.25)	0.62 (0.36, 1.07)
Generation X	0.66 (0.23, 1.88)	0.69 (0.29, 1.61)
PTA change per 5-years	PTA dBHL (p-value)	
Greatest Generation	7.28 (reference)	6.41 (reference)
Silent Generation	3.26 (<0.0001)	3.52 (<0.0001)
Baby Boom Generation	3.25 (<0.0001)	3.49 (<0.0001)
Generation X	2.05 (<0.0001)	2.66 (<0.0001)

**eTable 2.** Sex-stratified Sensitivity Analyses of Incident Hearing Impairment and PTA Change (per 5 Years) by Generation of Birth

Abbreviations: CI, confidence interval; dBHL, decibels hearing level; HR, hazard ratio; PTA pure tone average; RR, relative risk,