

Supplemental Digital Content 1. Hazard ratio for development of dementia in each cohort

	Hearing Aid Cohort			Non- Hearing Aid Cohort		
	Adjusted HR	95% CI		Adjusted HR	95% CI	
Gender (Female)	1.34	1.20	1.49	1.36	1.22	1.51
Age	1.13	1.12	1.14	1.13	1.12	1.14
Income (Quartiles)						
Lowest	1.00	-	-	1.00	-	-
Lower mid	0.93	0.79	1.11	0.90	0.76	1.05
Upper mid	0.99	0.84	1.16	0.79	0.67	0.92
Highest	0.90	0.79	1.03	0.78	0.69	0.88
Urbanized level						
Metropolis	1.00			1.00		
Urban	1.03	0.92	1.16	1.07	0.96	1.19
Rural area	1.04	0.89	1.22	1.32	1.14	1.53
Severity of Hearing Loss (WHO grade)						
Moderate to Severe	1.00	-	-	1.00	-	-
Profound	1.04	0.91	1.20	1.04	0.91	1.19
Comorbidity						
Ischemic heart disease	1.04	0.91	1.19	0.96	0.84	1.10
Cerebrovascular disease	1.43	1.27	1.61	1.44	1.29	1.61
Depression	1.67	1.48	1.88	1.57	1.40	1.77
Hypertension	0.97	0.86	1.10	1.08	0.96	1.22
Diabetes	1.25	1.12	1.40	0.87	0.68	1.12
Head trauma	1.38	1.20	1.60	1.09	0.94	1.27
Alcohol-related illness	1.15	0.91	1.45	1.18	0.93	1.51

Abbreviations: **HR**, Hazard ratio; **CI**, confidence interval.