

**Supplementary Table 1:** Multilevel growth models predicting memory in the combined data with interaction effects for “sample” (coded as: 0 = secondary data; 1 = primary data; n = 8,152; n = 28,895 observations)

Variables	Delayed recall	Delayed recall	Immediate recall	Immediate recall
Age	-0.147***	-0.148***	-0.107***	-0.107***
Female	1.487***	1.486***	1.338***	1.337***
Education	1.447**	1.447**	1.457***	1.457***
Mean Arterial Pressure	-0.015	-0.015	-0.008	-0.009
Alcohol	0.779	0.785	0.696	0.701
Smoking	-0.898	-0.915	-0.835	-0.835
Obese	-0.577	-0.593	-0.58	-0.59
Time	-0.156*	-0.245	-0.11	-0.11
Sample	-672.257***	-690.363***	-533.89***	-549.58***
Sample × wave	27.854***	86.638***	19.135***	70.040***
wave × wave		0.03		0.01
Sample × wave × wave		-20.977***		-18.164***
Intercept	14.791***	14.955***	12.728***	12.851***

Notes. \*\*\*  $p < .001$ , \*\*  $p < .01$ , \*  $p < .05$

**Supplementary Table 2:** Multilevel growth models predicting memory in the secondary data for individuals who heard 0 or 1 tones in the best hearing ear (n = 99 individuals; n = 340 observations)

Variables	Delayed recall	Immediate recall
Age	-0.072*** (0.02)	-0.068*** (0.01)
Female	0.348 (0.31)	0.138 (0.27)
Education	0.753 (0.42)	0.678 (0.37)
Mean Arterial Pressure	-0.02 (0.01)	0.003 (0.01)
Alcohol	0.385 (0.32)	0.561* (0.27)
Smoking	-0.11 (0.58)	-0.322 (0.51)
Obese	0.425 (0.45)	0.233 (0.39)
Time	-0.283*** (0.08)	-0.169* (0.07)
Intercept	9.912*** (1.85) (0.06)	8.917*** (1.6) (0.06)

Notes: Standard errors are in parentheses. \*\*\*  $p < .001$ , \*\*  $p < .01$ , \*  $p < .05$