

**Supplemental Material S1.** Sensitivity analysis<sup>1</sup> of hearing loss among those with and without iron deficiency anemia as defined by lab values.<sup>2</sup>

Age (years)	Conductive hearing loss			Sensorineural hearing loss			Any hearing loss (mixed, conductive, sensorineural)		
	IDA (%)	No IDA (%)	<i>p</i> -value	IDA (%)	Controls (%)	<i>p</i> -value	IDA (%)	Controls (%)	<i>p</i> -value
<b>4–11</b>									
Male	1/84 (1.2)	401/41441 (1.0)	.8367	2/84 (2.4)	187/41441 (0.5)	<b>.0096</b>	2/84 (2.4)	751/41441 (1.8)	.7023
Female	1/45 (2.2)	261/34920 (0.7)	.2586	3/45 (6.7)	111/34920 (0.3)	<b>&lt; .0001</b>	5/45 (11.1)	488/34920 (1.4)	<b>&lt; .0001</b>
All	2/129 (1.6)	662/76361 (0.9)	.4088	5/129 (3.9)	298/76361 (0.4)	<b>&lt; .0001</b>	7/129 (5.4)	1239/76361 (1.6)	<b>.0010</b>
<b>12–21</b>									
Male	1/83 (1.2)	201/48218 (0.4)	.2702	1/83 (1.2)	174/48218 (0.4)	.2046	2/83 (2.4)	445/48218 (0.9)	.1645
Female	2/252 (0.8)	166/50509 (0.3)	.2024	2/252 (0.8)	176/50509 (0.3)	.2357	5/252 (2.0)	411/50509 (0.8)	<b>.0426</b>
All	3/335 (0.9)	367/98727 (0.4)	.1190	3/335 (0.9)	350/98727 (0.4)	.0992	7/335 (2.1)	856/98727 (0.9)	<b>.0179</b>
<b>4–21</b>									
Male	2/167 (1.2)	602/89659 (0.7)	.4102	3/167 (1.8)	361/89659 (0.4)	<b>.0051</b>	4/167 (2.4)	1196/89659 (1.3)	.2414
Female	3/297 (1.0)	427/85429 (0.5)	.2175	5/297 (1.7)	287/85429 (0.3)	<b>&lt; .0001</b>	10/297 (3.4)	899/85429 (1.1)	<b>.0001</b>
All	5/464 (1.1)	1029/175088 (0.6)	.1720	8/464 (1.7)	648/175088 (0.4)	<b>&lt; .0001</b>	14/464 (3.0)	2095/175088 (1.2)	<b>.0004</b>

<sup>1</sup>Iron deficiency anemia defined by serum ferritin < 15 ng/mL (33.71 pmol/L) and hemoglobin based on age and gender: boys and girls ages 4–5 years old < 11.2 g/dL (6.95 mmol/L), boys and girls ages 6–11 years old < 11.8 g/dL (7.32 mmol/L), boys ages 12–15 years old < 12.6 g/dL (7.82 mmol/L), boys/men ages 16–19 years old < 13.6 g/dL (8.44 mmol/L), men ages 20–21 years old < 13.7 g/dL (8.50 mmol/L), girls ages 12–15 years old < 11.9 g/dL (7.39 mmol/L), and girls/women ages 16–21 years old < 12.0 g/dL (7.45 mmol/L).

<sup>2</sup>Analysis performed by two-tailed chi-squared test.