

Supplementary Information

Table S1. Changes in relative concentration of HbO following initiation of the test event, by neural region and stimulus condition. Cells contain μM (SE) $\mu\text{Molar cm}$ averaged from 5 to 20 s.

Neural Region	Stimulus Condition	Age Group		
		3–6 Months	7–10 Months	11–14 Months
Right Anterior	Native	−0.58 (0.55) *	2.37 (0.76) +	−5.37 (0.66)
	Non-Native	10.40 (0.33)	−1.61 (0.35)	−3.64 (1.19)
Right Posterior	Native	−1.37 (0.87) +	−4.36 (0.29)	−1.52 (1.23)
	Non-Native	−10.3 (0.63)	−5.13 (0.45)	−2.79 (1.64)
Left Anterior	Native	1.87 (0.80) +	1.22 (0.40)	7.99 (1.00) *
	Non-Native	1.11 (0.31)	−0.74 (0.85)	−3.80 (0.85)
Left Posterior	Native	0.13 (0.60) **	−0.35(0.41) *	8.71 (1.37) *
	Non-Native	3.84 (0.72)	−1.44 (0.51)	−1.00 (0.99)

* Native versus Non-Native values within this cell are significantly different, $p \leq 0.001$.; ** Native versus Non-Native values within this cell are significantly different, $p < 0.05$.; + The HbO Native and Non-Native values are significantly different from each other, but do not remain significant. After correcting for multiple comparisons. As such, these differences are not discussed in the manuscript.

Table S2. Changes in relative concentration of HbR concentration following initiation of the test event, by neural region and condition. Cells contain μM (SE) $\mu\text{Molar cm}$ averaged from 5 to 20 s.

Neural Region	Stimulus Condition					
	Native Speech			Non-Native Speech		
	3–6 Months	7–10 Months	11–14 Months	3–6 Months	7–10 Months	11–14 Months
Right Anterior	−0.25 (0.23)	−0.80 (0.27)	−0.43 (0.67)	−1.22 (0.14)	2.18 (0.20)	−3.92 (0.51)
Right Posterior	0.83 (0.19)	−2.55 (0.38)	1.34 (0.44)	−1.52 (0.29)	−4.47 (0.28)	1.92 (0.52)
Left Anterior	0.79 (0.18)	0.00 (0.16)	−0.09 (0.62)	−2.30 (0.24)	−0.03 (0.16)	−0.83 (0.39)
Left Posterior	−3.20 (0.42)	1.86 (0.18)	−0.19 (0.80)	−3.62 (0.82)	0.44 (0.27)	0.36 (0.55)

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