

Supplemental Material S2. Acoustic characteristics of the four Mandarin tones produced in the phonated mode and results of one-way ANOVAs conducted to compare the four tones on each acoustic cue (the p -value was corrected for multiple comparisons: $.05/6 = .008$).

Tone	f_0 mean (Hz)	f_0 SD	Duration (ms)	Intensity (dB)	F1 (Hz)	F2 (Hz)
T1 (SD)	194.11 (8.75)	3.53 (2.39)	516.95 (64.93)	72.06 (3.46)	586.05 (360.61)	1655.66 (842.74)
T2 (SD)	154.83 (11.06)	23.03 (4.01)	470.17 (54.68)	71.44 (2.70)	577.33 (369.32)	1664.7 (828.89)
T3 (SD)	128.04 (6.02)	15.59 (3.21)	662.97 (60.79)	68.01 (1.85)	574.02 (375.87)	1621.73 (875.03)
T4 (SD)	173.68 (8.2)	34.58 (5.93)	355.29 (68.84)	72.81 (2.98)	613 (354.73)	1677.88 (834.75)
p value	$p < .001$	$p < .001$	$p < .001$	$p = .005$	$n.s.$	$n.s.$
$\eta^2_{partial}$.90	.89	.78	.33	.02	.01