

Supplemental Material S4. Analysis of the probability of correct consonant identification as a function of experimental condition. AV = auditory–visual; A = auditory; V = visual; DS = Down syndrome; Ctr = control.

		VOICED								UNVOICED									
		AV		A		V				AV		A		V					
LABIALS																			
Plosive	Ctr	0.78	(0.10)	>	0.38	(0.10)	~	0.48	(0.11)	0.95	(0.05)	>	0.45	(0.10)	~	0.55	(0.12)		
	DS	b	0.69	(0.10)	>	0.34	(0.11)	~	0.47	(0.12)	p	0.83	(0.09)	>	0.42	(0.12)	~	0.49	(0.13)
	Ctr-DS		0.09		0.03		0.01			0.11		0.03		0.06					
Nasal	Ctr	0.29	(0.09)	~	0.10	(0.06)	~	0.14	(0.09)										
	DS	m	0.25	(0.10)	>	0.03	(0.04)	~	0.05	(0.04)									
	Ctr-DS		0.04		0.07		0.08												
Fricative	Ctr	0.76	(0.08)	~	0.54	(0.12)	~	0.33	(0.11)	f	0.67	(0.12)	~	0.52	(0.13)	~	0.49	(0.12)	
	DS	v	0.80	(0.08)	>	0.24	(0.08)	~	0.29	(0.12)		0.83	(0.08)	~	0.35	(0.09)	~	0.53	(0.12)
	Ctr-DS		-0.04		0.30		0.04			-0.17		0.17		-0.04					
CORONALS																			
Plosive	Ctr	0.50	(0.12)	~	0.41	(0.11)	~	0.19	(0.09)	t	0.81	(0.08)	~	0.76	(0.09)	>	0.26	(0.10)	
	DS	d	0.11	(0.07)	~	0.08	(0.06)	~	0.19	(0.09)		0.80	(0.09)	~	0.63	(0.10)	>	0.28	(0.11)
	Ctr-DS		0.39		0.32		0			0.01		0.14		-0.02					
Nasal	Ctr	0.35	(0.09)	~	0.23	(0.09)	~	0.05	(0.06)										
	DS	n	0.35	(0.13)	~	0.29	(0.12)	>	0.04	(0.04)									
	Ctr-DS		0		-0.06		0.01												
Fricative	Ctr	0.86	(0.10)	~	0.76	(0.09)	>	0.13	(0.08)	s	0.86	(0.08)	~	0.75	(0.11)	>	0.38	(0.12)	
	DS	z	0.59	(0.10)	~	0.50	(0.09)	>	0.04	(0.04)		0.68	(0.10)	~	0.44	(0.1)	~	0.20	(0.09)
	Ctr-DS		0.30		0.26		0.08			0.19		0.31		0.18					
	Ctr	0.76	(0.1)	>	0.32	(0.10)	~	0.31	(0.11)		0.84	(0.07)	~	0.85	(0.07)	>	0.40	(0.12)	
	DS	ʒ	0.45	(0.15)	~	0.22	(0.10)	~	0.18	(0.10)	j	0.65	(0.08)	~	0.47	(0.06)	~	0.44	(0.09)
	Ctr-DS		0.31		0.10		0.14			0.20		0.39		-0.04					
Other	Ctr	0.84	(0.08)	~	0.63	(0.10)	~	0.32	(0.11)										
	DS	l	0.44	(0.12)	~	0.26	(0.09)	~	0.22	(0.08)									
	Ctr-DS		0.41		0.36		0.10												
DORSALS																			
Plosive	Ctr	0.82	(0.08)	>	0.77	(0.09)	>	0.15	(0.07)	k	0.90	(0.07)	>	0.88	(0.08)	>	0.11	(0.07)	
	DS	g	0.64	(0.10)	~	0.34	(0.08)	~	0.25	(0.11)		0.76	(0.07)	>	0.64	(0.08)	>	0.17	(0.08)
	Ctr-DS		0.19		0.43		-0.10			0.14		0.24		-0.05					
Other	Ctr	0.8	(0.11)	~	0.55	(0.13)	~	0.26	(0.09)										
	DS	ʁ	0.75	(0.11)	>	0.44	(0.11)	~	0.19	(0.09)									
	Ctr-DS		0.05		0.11		0.07												
> greater than with <i>p</i> < .05; ~ nonsignificant.																			
AV ~ A ~ V					AV ~ A > V					AV > A ~ V					AV > A > V				

Average values and 95% confident intervals between-participants are provided. Background colors highlight significant differences between modalities and bold numbers significant differences between groups ($p < .05$). The regression analysis and multiple comparisons were run using the same method as in Analysis 1 (see Methods section in main article). The full model *Modality*Speaker_group*Stimulus + (Modality*Speaker_group | Participant) + (Modality*Speaker_group | Speaker)* was used to perform all multiple comparisons. The area under the receiver operating characteristic (ROC) curve computed from the full model (logistic regression) is 0.82 (good predictive level).