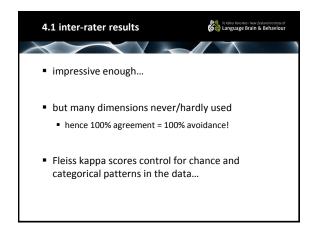


4.1 inter-rate	er res	ults				🛭 Languag	e Brain & B	ehaviou	
Setting	absolute agreement (%)				agreem		in 1 scalar %)	000 97 15 95 18 99 000 100 000 100 000 97 000 100 000 99 18 98	
	ES-PF	ES-JPF	JPF-PF	mean	ES-PF	ES-JPF	JPF-PF	mean	
lip rounding	96	96	100	97	96	96	100	97	
lip spreading	94	95	95	95	94	95	95	95	
labio-dentalisation	98	100	98	99	98	100	98	99	
extensive labial range	100	100	100	100	100	100	100	100	
minimised labial range	100	100	100	100	100	100	100	100	
close jaw	96	96	100	97	96	96	100	97	
open jaw	100	100	100	100	100	100	100	100	
ext. mandibular range	99	99	100	99	99	99	100	99	
min. mandibular range	96	96	98	97	98	98	98	98	
advanced tongue tip	55	56	66	59	69	73	78	73	
retracted tongue tip	92	99	92	94	93	99	92	95	
fronted tongue body	33	43	31	36	51	69	62	60	
backed tongue body	97	97	100	98	97	97	100	98	
ext. lingual range	98	99	99	99	100	100	100	100	
min. lingual range	98	98	100	99	99	99	100	99	
pharyngeal constriction	97	95	98	97	98	97	99	98	
pharyngeal expansion	97	98	97	97	99	100	99	99	

4.1 inter-rater results				Te Kihul Roso Reo - New Zealand Institute Language Brain & Behavio THE UNIVERSITY of York				
Setting	absolute agreement (%)				agreement within 1 scalar degr			degre
	ES-PF	ES-JPE	JPF-PF	mean	ES-PE	ES-JPF	JPF-PF	mea
nasal	43	36	49	43	66	75	75	72
denasal	90	87	92	90	91	88	93	91
raised larynx	78	73	71	74	85	84	79	82
lowered larynx	62	70	71	67	72	79	79	76
tense vocal tract	53	55	59	55	75	65	66	68
lax vocal tract	66	55	58	59	76	65	71	70
tense larynx	69	66	68	67	74	80	74	76
lax larynx	66	69	51	62	71	85	58	71
falsetto	100	100	100	100	100	100	100	100
creaky	42	37	59	46	80	79	85	81
whispery	90	94	88	91	95	98	95	96
breathy	49	42	64	52	72	77	85	78
murmur	99	100	99	99	100	100	100	100
harsh	75	74	76	75	84	80	84	82
tremor	100	100	100	100	100	100	100	100
Overall rate				76				82



inter-rater results		Te Kühul Roso Res Language B THE UNI
	V ~	
Setting	Fleiss' Kappa	agreement class
murmur	0.83	'almost perfect'
ext. lingual range	0.77	aimost periect
pharyngeal expansion	0.59	
min. mand. range	0.53	
whispery	0.53	
min. lingual range	0.49	'moderate'
pharyngeal constriction	0.49	
raised larynx	0.46	
harsh	0.43	
lowered larynx	0.41	

inter-rater result	5	Language B	
	V		
Setting	Fleiss' Kappa	agreement class	
advanced tongue tip	0.35		
tense larynx	0.34		
lax larynx	0.31		
creaky	0.31	'fair'	
breathy	0.31	lali	
lax vocal tract	0.29		
denasal	0.22		
tense vocal tract	0.22	1	
lip spreading	0.18		
nasal	0.13	'slight'	
fronted tongue body	0.01		
others	undefined		

