Appendix 1: Search strategy

The following search concepts and terms will be adapted to suit each of electronic database, with limits of year 1930 to present day and English language.

The search strategy will include 'vocal tasks' AND 'assessment' AND 'voice problem'

CONCEPT AREA	RELATED SEARCH TERMS
Vocal tasks	 voice task*
	 vocal task*
	– phonat*
	 sustained vowel*
	 prolonged vowel*
	 reading passage*
	 rainbow passage*
	 grandfather passage*
	 zoo passage*
	 consensus auditory perceptual evaluation
	 CAPE-V sentence*
	 CAPE-V phrase*
	 continuous speech
	 counting number*
	 loudness (OR volume OR amplitude OR intensity) range
	 dynamic range
	 pitch range
	 pitch glide
	 plosive fricative nasal
	 sing (OR song OR sung)
	 singing scale*OR musical scale*
	 diadochokinetic rate*
	 alternative motion rate OR sequential motion rate
Assessment	 voice assessment (OR evaluation OR analysis OR measure*)
	 instrumental OR objective
	 subjective
	 acoustic assessment (evaluation OR analysis OR measure*)
	 auditory perceptual
	 time domain*
	 frequency domain*
	 – fundamental frequency
	 perturbation
	– glottal noise
	– harmonic
	– fundamental
	- Tunuamentai

	-
	 voice spectrum
	 spectral tilt
	 spectral slope*
	– formant
	 energy ratio*
	– cepstrum
	 non-linear voice acoustic
	 voice acoustic index
	 linear prediction*
	 acoustic prediction*
	 voice discrimination*
	 voice discriminant analys*
	– grade
	– roughness
	 breathiness
	– quality
	– strain
	– asthenia
Voice disorders	 voice disorder*
	 voice problem*
	 voice pathology
	 pathological voice
	– aphonia
	– dysphonia
	– hoarseness

Appendix 2: Data extraction templates

Data extraction template for studies identified from electr	onic databases
Study details and study characteristics	
Citation details:	
(Authors, publication year, journal name, volume, pages)	
Country where study was carried out,	
Study design	
Participant details	
(Age, gender distribution, setting, diagnosis)	
Details extracted from the study	
Acoustic analysis instrument/software	
(Name, specifications)	
Auditory-perceptual evaluation procedure	
(Rating scale)	

Task	
(Instructions, type – habitual/performance-based)	
References for the tasks	
Recording protocol	
(Name, standardized/non-standardized, any othe	r
specifications)	
Dimensions of voice being assessed	
(Quality, intensity, frequency, time, consistency, endurance)	
Measures/parameters being measured	
Information on accuracy, sensitivity, and specificity	
Key findings relevant to the review	
Data extraction template for guidelines and recor	nmendations of professional
organizations	-
Details related to website	
(Name of organization, type of organization (SLP/ENT)	,
website URL, contact details)	
Voice assessment information	
(Available or not available, if available - voice assessmen	t
protocol recommended)	
Acoustic analysis details	
(instrument/software specifications, tasks, recording	5
protocol, acoustic measures/parameters being measured,	
Auditory-perceptual evaluation procedure	
(rating scale, tasks, parameters)	
Any other relevant information	
Data extraction template for textbooks	
Details related to textbook	
(Name, author, edition, publishers, chapter name, author	s
for the chapter)	
Voice assessment information	
(Available or not available, if available - voice assessmen	t
protocol discussed)	
Acoustic analysis details	
(instrument/software specifications, tasks, recording	5
protocol, acoustic measures/parameters being measured)	
Auditory-perceptual evaluation procedure	
(rating scale, tasks, parameters)	
Any other relevant information	