

Supplemental Material S1. Results and edits for the target label Delphi Rounds, listed in order of decreasing agreement after Round 1. Negative and positive numbers represent consensus towards the target label being non-measurable/redundant versus measurable/unique, respectively. R1 = round 1; R2 = round 2; R3 = round 3; Dash = target was not judged due to being incorporated into another target(s) in a previous Round; C = target was not judged on this construct due to attaining supra-majority consensus (≥ 8 out of 10 experts); E = edited by splitting into multiple targets or incorporating into another target(s); D = deleted from list; Gray shading = target labels were not yet created, so they were not present in that round.

Target	Measurable (# experts)			Unique (# experts)			Overlapping targets mentioned in Round 1 by ≥ 3 experts	Additional information about target edits and consensus
	R1	R2	R3	R1	R2	R3		
Gross ab- or ad-duction of the true vocal folds (not during voicing) ¹	10	C	C	6	10	C	Vocal effort, flow phonation, respiratory support	Not applicable
Pitch discrimination	10	C	C	6	9	C	Vocal effort, respiratory support, pitch production	Not applicable
Loudness discrimination	10	C	C	6	9	C	Vocal effort, respiratory support	Not applicable
Phonatory duration	10	E	—	5	-10/E	—	Vocal effort, respiratory capacity, respiratory strength, respiratory support	Incorporated into respiratory coordination with voicing
Pitch	10	C	C	5	9	C	Vocal effort, respiratory support, pitch discrimination	Not applicable
Glottal onset	10	C	C	5	8	C	Vocal effort, flow phonation, respiratory support, resonance	Not applicable
Resonance	10	C	C	5	10	C	Vocal effort, kinesthetic discrimination, glottal onset, loudness production	Not applicable
Respiratory capacity	10/E	—	—	5/E	—	—	Vocal effort, respiratory strength, respiratory support, rib cage movement, abdominal movement, phonatory duration	Incorporated into respiratory coordination, rib cage movement, abdominal movement, clavicular movement, inspiratory/ expiratory muscle strength/ endurance
Voice rest (full or modified)	10/E	—	—	-6/E	—	—	Vocal effort, use of vocal preservation strategies	Incorporated into voice and vegetative laryngeal use strategies
Flow phonation	10	5/E	—	-7	5/E	—	Vocal effort, respiratory smoothness, respiratory support, glottal onset, ab/adduction of vocal folds	Incorporated into respiratory coordination during voicing
Loudness	10	C	C	-7	9	C	Vocal effort, respiratory support, resonance	Not applicable
Use of vocal preservation strategies	10/E	—	—	-7/E	—	—	Vocal effort, use of vocal preservation strategies	Incorporated into voice and vegetative laryngeal use strategies
Roughness	10	C	C	-7	7	10	Vocal effort, respiratory support	Not applicable
Rib cage movement	10	C	C	-8	7	10	Vocal effort, respiratory smoothness, respiratory capacity, respiratory smoothness, respiratory	Not applicable

							strength, respiratory support, abdominal movement	
Voice quality discrimination	9	C	C	6	9	C	Vocal effort	Not applicable
Pedagogical target	9/E	—	—	6/E	—	—	Vocal effort	Incorporated into voice and vegetative laryngeal use strategies, hydration strategies, reflux strategies, recreational drug use
Respiratory strength	9/E	—	—	5/E	—	—	Vocal effort, respiratory capacity, respiratory support, rib cage movement, phonatory duration	Split into inspiratory strength and expiratory strength
Kinesthetic discrimination	9	C	C	-7	7	10	Vocal effort, resonance	Not applicable
Vocal effort	9	C	D	-8	6	-8/D	All other targets	Deleted – it appears to always be an aim
Use of reflux strategies	8	10	C	8	10	C	None	Not applicable
Counseling targets	8/E	—	—	6/E	—	—	None	Voice and vegetative laryngeal use strategies, hydration strategies, reflux strategies, recreational drug use
Muscle activation levels ²	8	C	C	-9	6	9	Alignment, vocal effort, passive range of motion, respiratory support, pain	Not applicable
Respiratory support	8/E	8/E	—	-9/E	7/E	—	Alignment, muscle activation, vocal effort, respiratory smoothness, flow phonation, respiratory capacity, respiratory strength, rib cage movement, abdominal movement, roughness, glottal onset, phonatory duration, ab/adduction of vocal folds, pitch production, pitch discrimination, loudness production, loudness discrimination	Split into respiratory support and respiratory coordination (after R1); Incorporated into respiratory coordination during voicing and respiratory coordination for/during vegetative breathing (after R2)
Alignment	7	9	C	6	9	C	Muscle activation, vocal effort, respiratory support	Not applicable
Respiratory smoothness	7/E	—	—	-7/E	—	—	Vocal effort, flow phonation, respiratory support, rib cage movement	Incorporated into respiratory coordination during voicing, respiratory coordination for/during vegetative breathing, rib cage movement, abdominal movement, clavicular movement
Abdominal movement ³	7	7	10	-8	7	10	Vocal effort, respiratory capacity, respiratory support, rib cage movement	Not applicable
Active range of motion	6	6	10	-7	-7	9	Muscle activation, vocal effort, active range of motion	Not applicable
Passive range of motion	6	6	10	-7	-7	9	Muscle activation, vocal effort, passive range of	Not applicable

Pain/discomfort/soreness	8	C	C	6	5	10	motion Muscle activation, vocal effort	Not applicable
Respiratory coordination		7/E	—		7/E	—	Added per experts after Round 1	Split into respiratory coordination during voicing and respiratory coordination for/during vegetative breathing
Breathiness		10	C		10	C	Added per experts after Round 1	Not applicable
Strain		9	C		9	C	Added per experts after Round 1	Not applicable
Overall dysphonia		10	-9/D		-6	-9/D	Added per experts after Round 1	Deleted – it appears to always be an aim
Clavicular movement		10	C		10	C	Added per experts after Round 1	Not applicable
Inspiratory muscle endurance		10	C		10	C	Added per experts after Round 1	Not applicable
Expiratory muscle endurance		10	C		10	C	Added per experts after Round 1	Not applicable
Inspiratory muscle strength		10	C		10	C	Added per experts after Round 1	Not applicable
Expiratory muscle strength		10	C		10	C	Added per experts after Round 1	Not applicable
Vocal endurance		10	C		10	C	Added per experts after Round 1	Not applicable
Voice and vegetative laryngeal use strategies ⁴		10	C		10	C	Added per experts after Round 1	Not applicable
Hydration strategies		10	C		10	C	Added per experts after Round 1	Not applicable
Recreational drug use		10	C		10	C	Added per experts after Round 1	Not applicable
Intelligibility		10	C		10	C	Added per experts after Round 1	Not applicable
Comprehensibility		10	C		10	C	Added per experts after Round 1	Not applicable
Respiratory coordination during voicing			10			10	Added per experts after Round 2	Not applicable
Respiratory coordination for/during vegetative breathing			10			10	Added per experts after Round 2	Not applicable
Vocal fry			10			10	Added per experts after Round 2	Not applicable
Supraglottal phonation			10			10	Added per experts after Round 2	Not applicable

¹original label: *ab/adduction of the vocal folds*; ²original label: *muscle tension*; ³original label: *diaphragmatic breathing*; ⁴original label: *voice use strategies*