The MISE Method. A new communicative approach for evaluating and training singing through mental imagery: executive implications. M.C. Morales-Villar, C. Sáez-Zea, R. Fernández-Pascual, F.J. Comino-Crespo & M. Vélez-Toral

ANNEX 1: MISE METHOD (Mental Images for Singing Education) **PROPRIOCEPTION SCALE APPLIED TO SINGING** (Copy for the participant) 6 7 PARTICIPANT INFORMATION Official studies in singing: YES / NO Indicates years: Private studies in singing: YES / NO Indicates years: Official music degree: YES / NO Instrument (which one): Singing: Do you play any instrument? Wind / String / Key / Percussion / Others Professional experience as a singer (years): Soloist: Choir / vocal ensembles: Other studies: **ASPECT 1: BREATHING IN SINGING: Continuity in the breath** Execution of the exercise without a mental image Execution of the exercise with a mental image Describe what changes you have experienced when using mental imagery: **ASPECT 2: VOICE SUPPORT: Musculature involved in respiration** Execution of the exercise without a mental image Execution of the exercise with a mental image Describe what changes you have experienced when using mental imagery: **ASPECT 3: CONCENTRATION OF SOUND IN PHONATION** Execution of the exercise without a mental image Execution of the exercise with a mental image Describe what changes you have experienced when using mental imagery: **ASPECT 4: VOICE FLEXIBILITY** Execution of the exercise without a mental image Execution of the exercise with a mental image Describe what changes you have experienced when using mental imagery: ASPECT 5: RESONANCE. The concentration of sound in the hard palate Execution of the exercise without a mental Execution of the exercise with a mental image Describe what changes you have experienced when using mental imagery: 0: Does not know how to do it / 1 to 5 level of execution: 1: Low / 2: Medium low / 3: Medium / 4: 33 Medium high / 5: High.

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1	ANNEX 2:										
2	MISE METHOD (Mental Images for Singing Education)										
3	PROPRIOCEPTION SCALE APPLIED TO SINGING										
4	(Expert judge copy)										
6	ASPECT 1: BREATHING IN SINGING: Continuity in the breath										
,	Execution of the exercise without a mental image	0	1	2	3	4	5				
0	Execution of the exercise with a mental image	0	1	2	3	4	5				
8 9 10	ASPECT 2: VOICE SUPPORT: Musculature involved in respiration										
-	Execution of the exercise without a mental image	0	1	2	3	4	5				
11	Execution of the exercise with a mental image	0	1	2	3	4	5				
$\frac{11}{12}$	ASPECT 3: CONCENTRATION OF SOUND IN PHONATION										
	Execution of the exercise without a mental image	0	1	2	3	4	5				
11	Execution of the exercise with a mental image	0	1	2	3	4	5				
14 15 16	ASPECT 4: VOICE FLEXIBILITY										
	Execution of the exercise without a mental image	0	1	2	3	4	5				
17	Execution of the exercise with a mental image	0	1	2	3	4	5				
18 19	ASPECT 5: RESONANCE. The concentration of sound in the hard palate										
	Execution of the exercise without a mental image	0	1	2	3	4	5				
20	Execution of the exercise with a mental image	0	1	2	3	4	5				
21 22	0: Does not know how to do it / 1 to 5 level of execution: 1: Low / 2: Medium low / 3: Medium / 4: Medium high / 5: High.										
23 24 25	VOCAL EXERCISES AND MENTAL IM	AGES	6 PRC	VIDE	D						
26	ASPECT 1: Fifths with third jumps while performing portamentos. Using the vowel "I"										
27	sound (Mental image: Imagine making big soap bubbl	es).									
28 29	ASPECT 2: Slurred fifths with third jumps Using the yowel "a" sound										
30	(Mental image: Imagine that your body is a large syringe filled with liquid, placing the										
31	plunger at the bottom of the syringe at the level of the diaphragm and opening the										
32	tube in the neck area. Imagine that you must press the plunger to empty the syringe).										
33 34	ASPECT 3: Fifths with third jumps exercise using the yowel "I "sound (Mental image:										
35	Imagine picking something up with precision tweezers).										
36		.				-					
37	ASPECT 4: Fifths exercise performing a messa di voce with the vowel "a" sound.										
30 39	(wental image: imagine slowly tightening and untightening a rubber band).										
40 41 42	ASPECT 5: Fifth range exercises (scale step) with the vowel "I" sound (Mental image: Imagine sticking the needle of a syringe into the front of the hard palate, above the palate. Imagine injecting fluid in that area).										

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ANNOTATIONS

ANNEX 3

NEL	JROPSYCHOLOGICAL TESTS	Medi a	Standard deviation.	Mi n	Ma x
Progressiv	APM Set I (scale 0-12)	10.83	1.586	8	12
Raven	APM Set II (scale 0-36)	24.83	6.952	15	35
Similarities (WAIS-III)	DS Similarities (scale 0-33)	26.73	3.438	18	32
	No. Attempts applied DS (scale: 0-128)	82.92	17.207	70	128
	Correct answers DS	67.58	7.845	61	84
	Total number of errors DS	15.33	10.569	5	44
Wisconsin	Perseverative responses DS	7.58	6.947	4	29
card sorting test	Perseverative errors DS	7.25	6.369	4	27
	Resp. Behavioral Level DS	64,67	5,297	60	79
	No. of complete categories DS	5.83	0.577	4	6
	Attempts to complete 1st category. DS	11.17	1.193	10	14
	Failure to maintain attitude DS	0.17	0.577	0	2
	Learning to learn DS	-2.17	2.98	-10	1

Table 1A: Raven's Progressive Matrices - APM Scale, WAIS-IV Similarities and Wisconsin Test. Overall results. (DS - direct score)

WISCONSIN CARD SORTING T	No. Attempts applied DS	Correct answers DS	Total number of errors DS	Persevs Answers. DS	Errors persevs. DS	Responses N. Behavioral DS	No. of complete categories DS	Attempts to complete 1st category. DS	Failure to maintain attitude DS	Learning to learn DS	
No. Attempts applied DS		1	.911**	.952**	.855**	.873**	.567	825**	.231	.221	658*
			.000	.000	.000	.000	.054	.001	.470	.490	.020
Correct answers DS	R2	.911**	1	.741**	.685*	.705*	.841**	659*	.066	.539	563
Correct answers D5		.000		.006	.014	.011	.001	.020	.838	.071	.057
Total number of errors DS	R2	.952**	.741**	1	.884**	.898**	.299	854**	.327	040	653*
Total number of errors DS		.000	.006		.000	.000	.345	.000	.300	.902	.021
Perseverative answers DS		.855**	.685*	.884**	1	.997**	.231	971**	090	026	869**
		.000	.014	.000		.000	.471	.000	.782	.935	.000
Dama automatikus, amma ma DC	R2	.873**	.705*	.898**	.997**	1	.253	977**	066	012	855**
Perseverative errors DS		.000	.011	.000	.000		.427	.000	.839	.970	.000
Resp. Behavioral Level DS		.567	.841**	.299	.231	.253	1	198	077	.852**	217
		.054	.001	.345	.471	.427		.537	.813	.000	.498
No. of complete categories DS		- .825**	659*	854**	971**	977**	198	1	.044	.091	.828**
		.001	.020	.000	.000	.000	.537		.892	.779	.001
Attempts to complete 1st	R2	.231	.066	.327	090	066	077	.044	1	308	.366
category. DS	Sig.	.470	.838	.300	.782	.839	.813	.892		.330	.241
Failure to maintain attitude DS	R2 Sig.	.221 .490	.539 .071	040 .902	026 .935	012 .970	.852** .000	.091 .779	308 .330	1	088 .785
	R2	658*	563	653*	869**	855**	217	.828**	.366	088	1
Learning to learn DS		.020	.057	.021	.000	.000	.498	.001	.241	.785	
**. Correlation is significant at the 0.01 level (one-tailed). *. Correlation is significant at the 0.05 level (two-tailed).											

Table 2A: Correlations between items of the Wisconsin Card sorting Test.