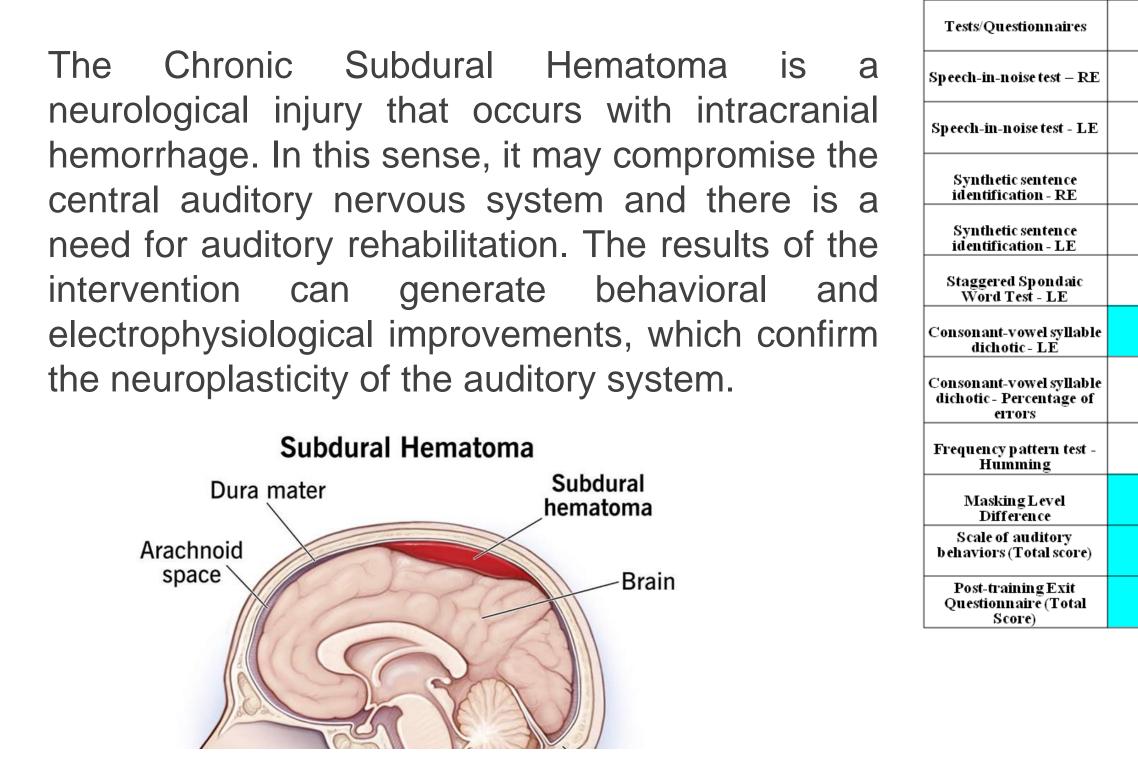


SCREENING AND DIAGNOSTIC

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Abstract



Objectifs

To characterize and compare subjects with chronic subdural hematoma post-drainage who received, or did not receive, acoustically controlled auditory training. Comparisons were based on behavioral and electrophysiological tests of auditory processing as well as selfadministered questionnaires of auditory perception.

Méthodes et Matériels

Thirteen individuals, aged 45 to 64 years, with auditory thresholds within normal range (frequencies 250 to 4000 Hz) participated, and seven of these, with a mean time of injury equal to 2.9 months, have undergone formal Auditory Training and the other six, with an average time of injury equal to 19.8 months, did not perform the intervention. The evaluation and the reevaluations were composed by behavioral, electrophysiological tests and questionnaires.

Effects of auditory training in subjects with chronic subdural hematoma

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то	T1	T2	In jury time	Testes/Questionários	T0 x T1	T0 x T2	T1 x T2					
		ATG > GWI 0,008*		Speech-in-noise test – RE	ATG↑ <0,001*	ATG↑ <0,001*						
						ATG ↑		Electrophysiological tests	то	11	T2	Injury time
	ATG > GWI 0,049*	ATG > GWI 0,003*	p<0,001*	Speech-in-noise test - LE		0,001*		P300 Tone Burst RE Latency	ATG > GWI	ATG > GWI	ATG > GWI	
		ATG > GWI 0,011*	p =0,002*	Synthetic sentence identification - RE	ATG↑ 0,015*	ATG↑ 0,002*	ATG↑ 0,012*		Not significant	Not significant	Not significant	p=0,001*
				Synthetic sentence identification - LE	ATG↑ 0,077*	ATG↑ 0,016*		P300 Tone Burst LE Latency	ATG > GWI	ATG > GWI	ATG > GWI	
	ATG > GWI 0,003*	ATG > GWI 0,004*	p=0,001*	Staggered Spondaic Word Test - LE					Not significant	Not significant	Not significant	p=0,011*
	GWI>ATG	ATG > GWI	p 0,001	Consonant-vow el syllable dichotic - LE				P 300 Speech Stimuli LE Latency	ATG > GWI		ATG > GWI	
GWI>ATG 0,022*	0,000*	0,042*	p =0,006*						Not significant	Not	Not significant	p =0,002*
		GWI > ATG 0,042*	p <0,001*	Consonant-vowel syllable dichotic - Percentage of errors		ATG↓ 0,043*		P300 Tone Burst RE amplitude		significant GWI > ATG	GWI > ATG	
		*Greater number of errors	P 0,001					P300 Tone Burst RE amplitude				
	GWI>ATG	ATG > GWI	p <0,001*	Frequency pattern test - Humming		ATG↑ 0,009*				0,022*	0,022*	p =0,010*
	0,048*	0,002*	p <0,001			í de la companya de la		P300 Speech Stimuli RE amplitude	GWI > ATG	GWI > ATG	GWI > ATG	
GWI>ATG 0,001*	GWI > ATG 0.018*	GWI > ATG 0,006*	p <0,001*	Masking Level Difference	ATG↑ 0,000*	ATG↑ 0,000*			0,015*	0,015*	0,015*	Not significant
0,001	0,018	0,000	p < 0,00 T	Scale of auditory behaviors (Total score)		$ m GSI$ / $ m ATG$ \downarrow		P300 Speech Stimuli LE amplitude	GWI > ATG	GWI > ATG	GWI > ATG	
	GWI > ATG 0,005*	GWI > ATG 0,004*				0,003*/0,001*			0,023*	0,023*	0,023*	Not significant
	GWI > ATG 0,009	GWI > ATG 0,009		Post-training Exit Questionnaire (Total Score)			$\begin{array}{cc} \text{ATG} \downarrow & \text{GWI} \downarrow \\ 0,017^* & 0,023^* \end{array}$					

. However, the P300 was not a good marker of improvement, as there were no consistent differences between the intervention and control groups, either in latency or amplitude.

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Résultats

Legend: RE= Right ear, LE= Left ear, ATG= Auditory training group, GWI= Group without intervention, T0= Pre-intervention moment, T1= Post-intervention moment, T2= Moment after 03 months of intervention, *= Significant, >= greater, <= Lower, \uparrow = Increase, \downarrow = Decrease, Pink color = Significant performance in the intervention group, Green color = Significant performance in the nonintervention group.

Conclusion

There was a significant improvement in responses to behavioral tests in the intervention group, which remained stable at the follow-ups

Références

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