Features of musical perception in patients with essential hypertension soft form S.V. Shusharjan, O.V. Pushkin (Moscow, Russia)

Hypertension (HD) is one of the most common diseases of the cardiovascular system (Mendelevich V.D., Solovyova V.S., 2002; Gubachev Yu.M., Dornichev V.M., Kovalev O.A., 1993) and is the main risk factor for the development of coronary heart disease and cerebral stroke (Organov R.G., 2000; Britov A.N., 2003).

Methods of music therapy, including musical psychocorrection, are beginning to occupy a special place in the technologies of restorative medicine. In accordance with the classification, the methods of music therapy are divided into active, those in which the patient takes an active part in the treatment process (for example, sings special exercises or plays an available musical instrument) and receptive, in which the patient's passive behavior during the session is provided (for example, listening music in a relaxed, comfortable position) (Razumov A.N., Shusharjan S.V., 2003). The effectiveness of using music therapy methods in the treatment of cardiovascular diseases and

functional disorders of the psychoemotional sphere has been shown in a number of studies (Mogendovich M.R., 1966; Polyakova V.B., 1968; Grineva I.M., 1981; Fudin N.A., 1996; Shushardzhan S.V., 1993, 1998, 2005).

The features of musical perception and psycho-physiological reactions to acoustic influences of various nature in patients with mild hypertension have not been studied earlier and are extremely important for the creation of highly effective acoustic programs of therapeutic influence.

It was shown that the effect of the influence of music on a personality depends on a number of factors, including individual musicality, the degree of musical training and the adequacy of perception. The higher the musicality of the individual, the higher the effectiveness of MT. Hence, it becomes necessary to diagnose and analyze these personality parameters (Shusharjan, 1993, 1998, 2005, etc.).

For the study, 125 patients with mild hypertension of different sex and age, who received standard medical treatment, were selected from the group of inpatients.

All 125 patients were examined for the level of musicality, musical preferences and the adequacy of musical perception.

The testing procedure was carried out in three stages.

1st stage - diagnostics of musicality.

The subject was asked to sing in a voice in turn:

1) two - three separate sounds, which were taken on the synthesizer, for example: "before", "Mi", "f sharp" ";

2) repeat the given rhythmic pattern by clapping your hands or percussion;

3) a fragment of any familiar melody, for example, "Evening bells ...", "I walk in Moscow ", etc.

The offered tests are elementary from a professional point of view. Therefore, musical persons without much effort carry out all the assigned tasks. There may be musical personalities with some imperfections

intonation hearing or sense of rhythm.

Finally, there are cases of complete absence of musical ear, then the subject

unable to cope with tasks.

2nd stage - basic interview.

After testing for musicality, the questionnaire part of a special card that was developed for this research work was filled out.

CARD No	
Date of the application Full name of the subject	
Age (full years)	Gender (M) (W)
	Main diagnosis
	Musicality (according to the survey)
Musical preferences:	
genre	
(opera, s	ymphony, jazz, light music, folk, etc.)
musical instruments	
the nature of the music	
	funny, sad, slow, fast,
loud, quiet	
Musical negatives:	

For the correct choice of the program of musical therapeutic influence, it is necessary to determine the preferences of a particular person, including musical genres, instruments, etc. After processing the personal data, we summarized individual musical preferences for all surveyed groups.

3rd stage - diagnostics of the adequacy of perception.

After assessing the degree of musicality and musical education of the subject, we proceeded to determine the adequacy of perception. For this purpose, it was consistently offered to listen to 7 pieces of music of different nature, recorded on a test CD - disc developed by us. Each of the examined patients was given a special form (Table 1).

Table 1

Test form for the adequacy of musical perception. Underline the selected characteristics of your assessment of each listener a piece of music in the corresponding lines

No. of Work	Rate estimation	Character assessment music	Overall assessment
# 1	Quick	Sad	Like
Albioni "Adagio"	Average	Anxious	Neutral
-	Slow	Calm	I do not like
		Cheerful	
# 2	Quick	Sad	Like
Bach-Gounod "Ave Maria	' Medium	Anxious	Neutral
	Slow	Calm	I do not like
		Cheerful	
No. 3	Quick	Sad	Like
A. Bilk "My Heart Is	Average	Anxious	Neutral
in San Francisco"	Slow	Calm	I do not like
		Cheerful	
No. 4	Quick	Sad	Like
D.Verdi "Rigoletto" Me	edium	Anxious	Neutral
duo Rigoletto and	Slow	Calm	I do not like
Gilda		Cheerful	
No. 5	Quick	Sad	Like
A. Khachaturyan	Average	Anxious	Neutral
"Dance with sabers"	Slow	Calm	I do not like
		Cheerful	
#6	Quick	Sad	Like
Delibes "Sylvia"	Average	Anxious	Neutral
-	Slow	Calm	I do not like
		Cheerful	

Brief objective musicological characteristics the proposed compositions are shown below.

Piece number 1 - music is slow, sad, mournful.

Piece number 2 - music is slow, smooth, sublime, light in mood.

Piece No. 3 is a slow, romantic, serene composition. Piece No. 4 - music is moderately fast, disturbing, with dramatic moods.

Piece No. 5 - music is fast-paced, aggressive, warlike. Piece No. 6 - the music is moderately fast, playful, optimistic; Composition No. 7 is fast, perky, sparkling music.

After each piece of music, the subjects were asked to determine the tempo, the nature of the music and give a personal assessment of what they heard, emphasizing the corresponding characteristic in the form.

As a result of processing the obtained data, the subjects were divided into three categories: 1 type - musical - adequate; Type 2 - musical - inadequate; Type 3 - non-musical, inadequate.

It has been shown that patients who are musical in nature, but who perceive music inadequately, should be treated especially carefully (Shusharjan et al.). This phenomenon can occur in persons suffering from psychopathies, neurotic disorders. Then the music therapy program should be selected taking into account the condition of a particular patient or a group of patients.

Sometimes inadequate musical perception meets at professional musicians, which is to some extent explained by the satiety

music, professional fatigue. In such cases, music therapy may have relative contraindications. Musicality The data of examination of patients for musicality and adequacy of perception are presented in Table 2.

table 2

Indicators of general musicality and the adequacy of music perception in patients GB soft

Index	Number of persons	%
High musicality	32	25.6%
Average musicality	54	43.2%
Low musicality	twenty	sixteen %
Lack of musicality	nineteen	15.2%
Adequate perception	104	83.2%
Inadequate perception	21	16.8%

Surveys have shown that in 84.8% of the experimental group of patients with mild hypertension, different musicality was revealed, which is generally slightly higher than the average indicators of musicality of the population as a whole, which, according to various authors, range from 60 to 70%. At the same time, the overwhelming majority of the surveyed differed in the adequacy of musical perception (83.2%).

Musical preferences.

The study of musical preferences in patients with hypertension was dictated not only by the interest associated with the lack of such data in the scientific literature, but also had practical significance for the formation of the most effective programs musically therapeutic impact. Data of this stage research programs are reflected in tables 3 and 4.

Table 3

Musical instruments, pre

read by patients with hypertension (according to the survey)

Musical instrument	Number of elections	%
accordion	35	28%
violin	thirty	24%
guitar	27	21.6%
piano	fifteen	12%
saxophone	7	5.6%
clarinet	3	2.4%
Difficult with the choice	eight	6.4%

Table 4

Musical characteristics designated as preferred by patients with hypertension (according to the survey)

Musical characteristic	Number of elections	%		
Mood				
Optimism	51	40.8%		
Romantic	32	25.6%		
Serene	23	18.4%		
Sad	eleven	8.8%		
The pace of execution				
Slow	59	47.2%		
Average	43	34.4%		
Quick	fifteen	12%		
Volume	-	-		
Average	93	74.4%		
Quiet	18	14.4%		
Loud	6	4.8%		
Musical genre				
"Light", pop music Classics	62			
	thirty			
People's	21			
Rock	4			
"Pops"	0			
Found it difficult to answer	eight	6.4%		

According to the survey, it was found that among the most preferred musical instruments, patients with hypertension attributed: accordion - in 28%, violin - in 24% and guitar - in 21.6% of cases. At the same time, 40.8% of patients preferred to listen to music of an optimistic nature, 25.6% - romantic and 18.4% of a serene mood. Only 8.8% would like to listen to sad music.

At the same time, the dominant number of patients (81.6%) preferred the slow (47.2%) and medium (34.4%) tempo of music performance.

Describing their attitude to the playback volume of the melodies being listened to, 88.8% of patients with mild GBs completely denied loud music, preferring medium (74.4%) and quiet (14.4%) sound levels.

Genre preferences were determined in favor of "light", classical and folk music. The so-called "pop music" caused absolute denial.

Conclusions:

1. 84.8% of the experimental group of patients with mild hypertension had different musicality was revealed, which in general is slightly higher than the average indicators of musicality of the population as a whole, which, according to various authors, range from 60 to 70%.

2. The acoustic formula, which is positive in the perception of patients with hypertension, looks like as follows: music is preferred, "light", classical or folk by genre, mainly of an optimistic or romantic nature, medium or slow tempo, medium volume level, and accordion, violin or guitar are assigned to the priority musical instruments.

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