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Evaluation of food habits and information levels of elite table tennis players and trainers

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Abstract

The aim of the study was to assess food habits and information levels of elite table tennis players and trainers. The universe of the study involves table tennis sportsmen and trainers; its sample involves 94 sportsmen and 44 trainers randomly chosen from the universe as well. The research is of a screening model directed to the situation determination. The data collection tool used in this research consists of 3 sections. In the first section, a personal information form was developed to show the participants' demographic characteristics by the researcher. In the second section, food habits were given and in the third section a questionnaire for measuring food information was applied. The questionnaire questions were arranged by screening the relevant literature, taking expert opinions and studying the questionnaires about food used in master and doctorate thesis before, thus the Cronbach's alpha value was regarded to be "0.722" from the reliability analysis. When trainers and sportsmen' food information and food habits were compared in genders, it was seen that there were not any significant differences both females and males being trainers and sportsmen, it was observed that there was a statistically significant difference between trainers and sportsmen (P<0.05). In conclusion, it was understood that sportsmen's food information was better than trainers' food information as trainers' food habits were better than sportsmen's food habits.

Key Words: Food, sportsmen, table tennis, trainer.

INTRODUCTION

Nutrition is a consumption of foods in order to fulfill vital functions, grow up, develop, reproduce, perform physical activities and keep fit, shortly go on living (7). It is possible for a sportsman to develop one's body, keep healthy and have a high sportive productivity only when he eats in a balanced, regular and purpose way (16). It is suggested that failures with unknown reasons or non-optimal performances mostly depend on inappropriate nourishment. And it is known that expectations of high productivity from sportsmen will be achieved in taking food nutrients adjusted as appropriate doses quantitatively and qualitatively when considering the relevant trainings and competition conditions (4). By making arrangements about trainings and competition periods in accordance with a sportsman's gender, age, daily physical activity and doing sport type, it is very important to eat foods enough and in a balanced way (7). A sportsman's nourishment must have some features in terms of calorie and quality in accordance with sport type. The aim is to meet need of energy through carbohydrates and fats, to respond to need of protein when creating, protecting and repairing tissues and to provide necessary vitamins and minerals when carrying food nutrients in body and creating enzymes (10). Table tennis is among sport branches requiring a quick power (10). In this regard, sportsmen's diet applications must be prepared under the general nourishment criteria before, during and after both trainings and competitions. A table tennis sportsman's daily need must be considered to be 3.500-4.000 k/kal and the need of energy may show increases or decreases depending on the characteristics of training and competition. Thus, the aim of this study was to assess food habits and information levels of elite table tennis players and trainers.

MATERIAL & METHODS

The universe of the study involves table tennis sportsmen and trainers; its sample involves 94 sportsmen and 44 trainers randomly chosen from the universe as well. The research is of a screening model directed to the situation determination. According to Karasar (8), the screening model is a research approach used to describe a historical or still current situation as it is. The data collection tool used in this research consists of 3 sections. In the first section, a personal information form was developed to show the participants' demographic characteristics by the researcher. In the second section, food habits were given and in the third section a questionnaire for measuring food information was applied. The questionnaire questions were arranged by screening the relevant literature, taking expert opinions and studying the questionnaires about food used in master and doctorate thesis before, thus the Cronbach's alpha value was regarded to be "0,722" from the reliability analysis.

Statistical Analysis

The scale forms collected by the researcher were controlled, these ones which were filled in a missing or wrong way, was excluded from the research. Then the valid and acceptable ones were computerized in order to evaluate them in SPSS package program. In assessment of research data, the participants' demographic characteristics

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obtained from the personal information form, the frequencies and percentage distributions of the questions related with food information and food habits were analyzed. Also, "the independent t-test for two samples" was performed to understand whether there were differences about food information and food habits between sportsmen and trainers. When examining the sub-problems from demographic characteristics the 37 of the participants, the Independent Samples Test, the Kruskal Wallis Test and the ANOVA were done to determine differences between food information and food habits included in the questionnaire items in accordance with gender, education level, license and regular sportive activities.

In comparison of trainers and sportsmen's food information and food habits to the genders, it was determined that there were not any statistically significant differences between both male and female trainers, both male and female sportsmen (P>0.05).

In comparison of trainers and sportsmen in terms of food information and food habits, there was a statistically significant difference between trainers and sportsmen (P<0.05). Within these comparisons, sportsmen's food information was understood to be better than trainers' food information as trainers' food habits were considered to be better than sportsmen's food habits.

RESULTS

Table 1 Commanicon of trainers and a	monteman's food habits and food informat	ion in accordance with the conder warishis
Table 1. Comparison of trainers and s	Dortsmen's lood habits and lood informat	ion in accordance with the gender variable.

Groups	Variables	Gender	Average	Standard Deviation	Т	Р
Trainers	Food Habits	Male (N=31)	25.516	1.912	-0.374	0.710
maniers	rood Habits	Female(N=13)	23.769	2.350	-0.574	0.710
	Food Information	Male(N=31)	28.354	1.450	0.260	0.796
		Female(N=13)	28.230	1.423		
Sportsmen	Food Habits	Male(N=64)	22.328	2.323	-1.122	0.569
		Female(N=30)	22.996	3.045		
	Food Information	Male (N=64)	27.656	2.169	-0.390	0.697
		Female(N=30)	27.833	1.763		

Table 2. Comparison of trainers and sportsmen in terms of food habits and food information.

Variables		Average	Standard Deviation	Т	Р
Food Habits	Trainers (N=44)	23.591	1.427	2.399 0.018*	0.018*
	Sportsmen(N=94)	22.532	2.041		0.018
Food Information	Trainers (N=44)	23.318	1.426	2.012 0.047*	0.047*
	Sportsmen(N=94)	27.713	2.040		0.047
*P<0.05					

DISCUSSION

A statistically significant difference was found in food information level and food habits between trainers and sportsmen in this study which aimed to determine elite table tennis players and trainers' food habits and food information (P<0.05).

In Pulur & Cicioğlu's study (11) on food information and habits of female basketball players playing at different leagues in Ankara, 40% of the subjects showed their trainers as a resource of information about a sportsman's nourishment. The other resources were a sportsman's friends, school, book, newspaper, journal and TV, respectively. Süel et al. (13) determined that there was not a difference in food habits between elite female basketball players and male basketball players playing at 1st league. In accordance with Yılmaz's study (17) findings about football players, he concluded that football players involved in the study gave importance to eat regularly, did not skip main drives and knew about the importance of nourishment.

It was stated that it should be 3-4 hours between the latest eating and the competition for 100% of professional football players and 92.5% of amateur football players in Göral's study, for 100% of professional football players and 95% of amateur football players in Öztürk's study as well. While 86,7% of all football players suggested 2-4 hours between the latest eating and the competition, the research by Bayrakdar et al. (3) also claimed that 88% of players suggested to have approximately 3 hours between the latest eating and the competition.

Yarar et al. (15) suggested that 56,5% of sportmen had information about nourishment, similarly, Pulur & Cicioğlu (11)also stated that 54% of sportmen had information about a sportsman's nourishment, Atay et al. (2) explained that 73,7% of football players had a great information about nourishment. It was given that elite sportmen interested in sport for a long time were not informed enough about nourishment (14). Furthermore, Cotunga (5) said that sportsmen did not have any enough information about nourishment though they generally cared about it. Rosenbloom et al. (12) measured food information levels of sportsmen aged 19 on average in 385 different branches and found that sportsmen's food information levels were not adequate.

In Abood et al.'s study (1), sportsmen were randomly chosen from a female football team and female swimming team in Florida, their food information levels were measured, and then sportsmen's food levels were regarded to be unsatisfying. Sportsmen's food information was only training-targeted. Süel et al. (14) studied that basketball players were not so informed about eating healthy.

In conclusion, sportsmen's food information was understood to be better than trainers' food information as trainers' food habits were considered to be better than sportsmen's food habits. In a branch of Table Tennis, there are less trainers and sportsmen graduated from the School of Physical Education and Sport. Especially, trainers who have an important place about sportsmen's performance and nourishment, have less information about a sportsman's nourishment since they are not graduates of the School of Physical Education and Sport and do not take any lessons about a sportsman's nourishment in these types of schools.

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