

## The forms of physical activity chosen by young adults

**Joanna Popiolek<sup>1</sup>, Monika Kusz<sup>2</sup>, Adam Alzubedi<sup>3</sup>, Michał Konopelko<sup>4</sup>**

<sup>1</sup>Department of Cardiology, Cardinal Wyszyński Hospital in Lublin

<sup>2</sup>Department of Pediatric Nephrology, Medical University of Lublin

<sup>3</sup>Department of General and Transplant Surgery and Nutritional Treatment, Medical University of Lublin

<sup>4</sup>Chair and Department of Hygiene, Medical University of Lublin

### Address for correspondence:

Joanna Popiolek, Department of Cardiology, 100 Krasnicka Al., 20-718 Lublin, Poland, phone:  
+48 81 537 47 40  
e-mail: [popiolek8@gmail.com](mailto:popiolek8@gmail.com)

### Abstract

The positive impact of regular physical activity is a widely recognized fact. The WHO recommends that people of all ages exercise 30 minutes of exercise every day. In the context of the sedentary lifestyle and changes in social behavior patterns in recent years, there is a need to examine the habits of young adults regarding physical activity. The aim of the study was to investigate which forms of exercises are preferred by young adults and how much time they devote to them.

The study was conducted on a group of 42 people (16 men and 26 women). Respondents were asked about the forms of physical activity they choose most often and the time during the week

they devote to them. A written questionnaire with multiple-choice questions was used to obtain the data.

The most common form of activity chosen by young adults was walking (66.7% of the group). The next forms were dancing (42.9%) and swimming (38.1%). Referring to time issues, respondents spent 209 minutes a week on physical activity (SD 190). Men spent 315 minutes and women 143 minutes per week. At the same time, respondents spent the most time on walking (55 minutes per week on average), 31 minutes and 29 minutes per week for gym training and dancing respectively.

Among young adults, the most-chosen form of physical activity was walking, which may be related to its undemanding character. Young adults devoted enough time to physical activity according to WHO recommendations. They care about their physical condition by participating both moderate and intense physical activities.

**Key words:** physical activity, exercise, young adults' health

## **Introduction**

The positive impact of the regular physical activity on various aspects of individual and common health has been proven in numerous studies. This is manifested, for example in the reduction of the cardiovascular risk [1, 2] or other chronic diseases [3] or in the improvement of mental condition [4, 5]. For this reason, the World Health Organization (WHO) recommends to people of all ages a minimum of 30 minutes of moderate intensity effort every day. National societies recommend physical activity at a different level, i.e. 150 minutes of moderate or 75 minutes of intensive exercises per week [6, 7]. At the same time, changes in social behavior patterns and the sedentary lifestyle have been observed for last years. In this circumstances, the need for a detailed analysis of the habits of young adults in the field of physical activity was recognized.

## **Purpose of work**

Young people are generally considered to be the most physically active age group. Due to the epidemic of obesity and diseases previously reserved mainly for older groups, it seems to be important to examine current preferences regarding physical activity in young people. The aim

of the study was to examine in detail which forms of physical activity are preferred by young adults and how much time they devote to them.

## Material and methods

The study was conducted on a group of 42 people (16 men and 26 women) aged 20-25 years (average 21.5 years). A written questionnaire with multiple-choice questions was used for the study. The subjects were asked about the forms of physical activity they choose. They could choose from the following: walking, dancing, running, swimming, gym training, cycling, fitness or another form of exercise not included in the mentioned options. In addition, the respondents were asked to specify in detail how much time they spend on chosen activities during the week. Answers were given with an accuracy of 5 minutes.

## Results

The most common form of activity chosen by young adults was a walking (66.7% of the group, 61.5% of women, 75% of men). The next forms were: dancing (chosen by 42.9% of the group), swimming and training at the gym (both 38.1% of the group). Apart from walking, which was the most frequently chosen form of physical activity for both sexes, women more willingly chose dancing (53.9%) and running (38.5%). Men except for walking preferred gym training (62.5%) and swimming (50%). All collected responses are presented in Table 1.

**Tab. 1 Preferred forms of physical activity**

The form of activity	Number of people	Percent of the group	Number of women	Percent of women	Number of men	Percent of men
Walking	28	66,67%	16	61,54%	12	75,00%
Dancing	18	42,86%	14	53,85%	4	25,00%
Swimming	16	38,10%	8	30,77%	8	50,00%
Gym training	16	38,10%	6	23,08%	10	62,50%
Running	14	33,33%	10	38,46%	4	25,00%
Fitness	14	33,33%	8	30,77%	6	37,50%
Cycling	12	28,57%	6	23,08%	6	37,50%
Others	4	9,52%	0	0%	4	25,00%

A separate issue was the time devoted to exercises in general and to its differentiation into individual forms. On average, respondents spent 209 minutes per week on physical activity (standard deviation 190). Men spend 315 minutes per week on physical activity and women 143 minutes per week respectively. At the same time, the respondents devoted the most time to walking (on average 55 minutes per week, women 36 minutes per week, men 71 minutes per week). The next places were: gym training and dancing, that were given respectively 31 minutes and 29 minutes a week.

Gender differences included dancing, which was the next preferred activity after the walking in women (on average 25 minutes per week). Next in the row was running (on average 18 minutes per week). Among men after walking, next places were taken by gym exercises (58 minutes a week on average) and swimming (43 minutes a week). The average time devoted to particular forms of physical activity is shown in Table 2.

**Tab. 2 The average time spent on various physical activities**

The form of activity	The average time per week (minutes) - the whole group	The average time per week (minutes) - women	The average time per week (minutes) - men
Walking	55	36	71
Dancing	29	25	26
Swimming	21	6	43
Gym training	31	12	58
Running	26	18	34
Fitness	17	12	19
Cycling	19	8	34
Others	11	0	30

## Discussion

Among young adults, the most-chosen form of physical activity was walking, which may be related to its undemanding character. A similar phenomenon is also observed in other countries [8]. Among the intense physical efforts, the most popular form was dancing. The choice of forms of physical activity is strongly related to their popularization in the media, which in par-

ticular in the case of young people has been proven [9]. The increase in the popularity of dancing as a form of spending free time has found its impact in the study. Other mentioned forms have also become popular in recent years.

The authors of other studies pointed to the differences in the choice of forms of physical activity between separate demographic groups [10]. For this reason, it is worth paying attention to gender differences regarding the preferred forms of physical activity in the study group. Dancing was chosen mainly by women, and gym exercises by men, which coincides with the traditional division of interests in the societies of other countries too [11]. However, not all forms of physical activity fit into this pattern. Running was definitely more often chosen by women than by men. An interesting phenomenon is the significant predominance of men over women when choosing group fitness exercises as a form of exercising.

The amount of time that respondents spent on selected forms of exercise was a separate analyzed issue. Nevertheless, the average amount of time devoted to individual disciplines reflected general choices. Regarding recommendations for regular physical activity formulated by WHO and by national societies, young adults as a group devoted enough time to physical activity [6, 7]. What's more, men devote more time to exercising than women, which also corresponds to the traditional division of interests [11].

## **Conclusions**

In summary, young adults as the group fulfill the recommendations of national societies and WHO referring to physical activity. They care about their physical condition by undertaking both moderate and intense physical activities. The choice of forms of activity is dictated by easy access and undemanding nature (walking). Furthermore, the choice of more demanding forms is probably related to the promotion of specific areas in the media and society.

### List of references:

1. Tarp J, Child A, White T, Westgate K, Bugge A, Grøntved A et al. Physical activity intensity, bout-duration, and cardiometabolic risk markers in children and adolescents. *Int J Obes (Lond)*. 2018; 1.
2. Swift DL, McGee JE, Earnest CP, Carlisle E, Nygard M, Johannsen NM. The Effects of Exercise and Physical Activity on Weight Loss and Maintenance. *Prog Cardiovasc Dis*. 2018; 620(18): 30144.
3. Byrne H, Caulfield B, De Vito G. Self-directed exercise programmes in sedentary middle-aged individuals in good overall health; a systematic review. *Prev Med*. 2018; 114: 156-163.
4. Richards J, Jiang X, Kelly P, Chau J, Bauman A, Ding D. Don't worry, be happy: cross-sectional associations between physical activity and happiness in 15 European countries. *BMC Public Health*. 2015; 15(1): 53.
5. Bernstein EE, Curtiss JE, Wu GWY, Barreira PJ, McNally RJ. Exercise and emotion dynamics: An experience sampling study. *Emotion (Washington, DC)*. 2018.
6. Jansson E, Hagströmer M, Andersson SA. Physical activity - new paths and choices in the recommendations for adults. *Läkartidningen*. 2015; 112 [in Swedish].
7. Lackinger C, Dorner TE. Achievement of physical activity recommendation and activity levels in students of human medicine compared with the general Austrian population aged between 20 and 29 years. *Wien Med Wochenschr*. 2015; 165(5-6): 116-23.
8. Remmert JE, Woodworth A, Chau L, Schumacher LM, Butryn ML, Schneider M. Pilot Trial of an Acceptance-Based Behavioral Intervention to Promote Physical Activity Among Adolescents. *J Sch Nurs*. 2018: 1059840518786782.
9. O'Reilly-Duff H, Best P, Tully MA. Same old song and dance: an exploratory study of portrayal of physical activity in television programmes aimed at young adolescents. *BMC Res Notes*. 2018; 11(1): 458.
10. Nuzzo JL. Equity in Physical Activity: A Misguided Goal. *Sports Med*. 2018: 1-7.
11. Brazo-Sayavera J, Mielke GI, Olivares PR, Jahneka L, Crochemore M, Silva I. Descriptive Epidemiology of Uruguayan Adults' Leisure Time Physical Activity. *Int J Environ Res Public Health*. 2018;15(7): 1387