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ORYGINALNY ARTYKUŁ NAUKOWY

THE QUALITY OF AGING OF SENIORS LIVING IN THE CITIES
OF THE SILESIAN CONURBATION

JAKOŚĆ STARZENIA SIĘ SENIORÓW ZAMIESZKUJĄCYCH MIASTA AGLOMERACJI ŚLĄSKIEJ

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**Summary** 

**Background.** Seniors' quality of aging has become the subject of many studies in recent years.

This is related to the progressive aging of societies. The aim of the study was to assess the

quality of aging of seniors living in the cities of the Silesian conurbation.

Material and methods. 436 seniors from Silesian conurbation cities were surveyed, including

340 (77.98%) attending the Universities of the Third Age (UTA) classes and 96 (22.02%) not

attending. The research tool was the original questionnaire supplemented with the standardized

SAI questionnaire.

Results. The successful aging rate in the group of seniors participating in the UTA classes was

slightly higher (11.75) than in the group of seniors not participating (11.43). They also most

often assessed their health condition as good and declared an active way of spending their free

time. Those who did not participate assessed their health as average and declared a passive way

of spending free time. Seniors of both groups were independent in performing everyday

activities, meeting family and friends and were systematically examined. Most of the surveyed

seniors attended the cinema/theater or museum several times a year, over half consumed alcohol

and over one third used tobacco.

Conclusions. The quality of aging of the surveyed seniors living in the cities of the Silesian

conurbation was good. Seniors, regardless of attending the UTA classes or not, actively

stimulants.

Keywords: university of third age, Silesian conurbation, SAI questionnaire, quality of aging,

seniors

Streszczenie

Wprowadzenie. Jakość starzenia się seniorów stała się w ostatnich latach przedmiotem wielu

badań. Jest to związane z postępującym starzeniem się społeczeństw. Celem badania była ocena

jakości starzenia się seniorów zamieszkujących miasta aglomeracji śląskiej.

Materiał i metody. Badaniami objęto 436 seniorów zamieszkujących miasta aglomeracji

śląskiej, z czego 340 (77,98%) uczęszczało na zajęcia Uniwersytetów Trzeciego Wieku (UTW),

a 96 (22,02%) nie uczęszczało na zajęcia. Narzędziem badawczym była autorska ankieta

uzupełniona standaryzowanym kwestionariuszem SAI.

Wyniki. Wskaźnik pomyślnego starzenia się w grupie seniorów uczestniczących w zajęciach

UTW był nieco wyższy (11,75) niż w grupie seniorów nieuczestniczących w zajęciach (11,43).

Seniorzy biorący udział w zajęciach UTW najczęściej oceniali swój stan zdrowia jako dobry i

deklarowali aktywny sposób spędzania czasu wolnego. Osoby, które nie brały w nich udziału,

oceniły swój stan zdrowia jako przeciętny i deklarowały bierny sposób spędzania czasu

wolnego. Seniorzy obu grup wykazali się samodzielnością w wykonywaniu codziennych

czynności, spotykaniem się z rodziną i znajomymi oraz byli systematycznie badani. Większość

ankietowanych seniorów kilka razy w roku chodziła do kina/teatru lub muzeum. Ponad połowa

badanych seniorów spożywała alkohol, a ponad jedna trzecia paliła papierosy.

Wnioski. Jakość starzenia się badanych seniorów zamieszkujących miasta aglomeracji śląskiej

była dobra. Seniorzy, niezależnie od uczęszczania lub nie na zajęcia UTW, aktywnie

uczestniczyli w życiu społecznym i kulturalnym, regularnie badali się, ale niestety stosowali

używki.

Słowa kluczowe: uniwersytet trzeciego wieku, aglomeracja śląska, kwestionariusz SAI, jakość

starzenia się, seniorzy

Introduction

Quality of life is "the functional effect of a disease and its treatment, subjectively or

objectively perceived by the patient." Although this concept has accompanied humans since

antiquity, it was first introduced in medicine in 1990 by Schipper, who distinguished four basic

dimensions of the quality of life: physical, mental, social and economic conditions. The physical

condition is mainly related to mobility, self-service ability, physical activity and life energy.

The mental state concerns the emotional cognitive sphere. The social situation relates to the

performed social roles and functions, interpersonal contacts and gaining the support of relatives

[1]. Ebrahim, on the other hand, states that the quality of life is determined by the state of health

and life expectancy, as well as modified by physical disability, functional limitations, the way

they are perceived and the possibilities of social activity. It depends on the type of disease, the

applied treatment and long-term monitoring of the therapeutic procedure [2]. Researching the

quality of life in medical terms means identifying the problems resulting from the disease and

the treatment used, regarding human activity in the physical, mental and social sense, and

describing the patient's views on health and their subjective well-being.

The term "successful aging" has been used in the gerontological literature for several

decades. It was first used by Robert J. Havighurst and Ruth Albrecht [3,4]. They believed that

it was closely related to earlier periods of life (childhood, youth and adulthood), and people

who felt they had lived happily and were satisfied with their lives aged successfully. Positive

aging is also defined as an attitude towards one's own old age and its acceptance. Manifestations

of this attitude include taking up and continuing social activity in old age, for example

participation in activities at Universities of the Third Age (UTA) [5]. Ann Bowling attempted

to organize the definition of successful aging and listed the categories that, in her opinion,

should be included in the definition of successful aging, i.e. longevity, mental and physical

health, cognitive performance and social functioning, coping, favorable life circumstances, life

satisfaction [4,6].

The quality of aging of older people has become the subject of many studies in recent

years [7-10]. The growing interest in the issues of old age is related to the progressive aging of

societies and the increasing share of older people in the general structure of the population. At

the end of 2020, the number of people aged 60 and over in Poland amounted to 9.8 million and

increased by 1.0% compared to the previous year. According to the forecast of the Central

Statistical Office, the number of seniors in Poland in 2030 is expected to increase to 10.8

million, and in 2050 even to 13.7 million, which will constitute about 40% of the entire

population of Poland [11]. This means that in Polish society we are dealing with demographic

old age. So, it is important that seniors age successfully and their quality of life is very good.

UTA, established in Poland since 1975, are the most widespread, institutional form of

education for seniors to improve the quality of life of older people. UTA contribute to satisfying

the psychosocial and health needs of their students [12]. In their youth, seniors often had to give

up education for economic, life or other random reasons. As a result, unmet needs remain in

their lives, such as the need for self-education, establishing new social contacts, being socially,

physically and culturally active. Attending UTA allows them to meet the needs mentioned

above, as well as improve the quality of their lives. Other equally important goals of UTA are,

for example, activation and integration of elderly people and their inclusion in the public

and civic life of local communities. The specific goals of UTA are: inspiring older people to

various forms of physical activity, shaping a healthy lifestyle, raising knowledge about the

importance of exercise in everyday life and stimulating rational planning, organizing and

spending free time. Numerous UTA undertake and successfully implement national and

international cooperation with other senior organizations, in which it is extremely valuable, for

example, the exchange of experiences. It can be said that the activity of UTA aims at the broad

inclusion of older people in the multidimensional process of education, activation and

integration, giving life meaning in the context of civilization, social and cultural changes.

Inspiring seniors to various forms of mental and physical activity, including social, cultural and

pro-health, is aimed at counteracting social exclusion and manifestations of discrimination [13].

The results of research conducted by the Central Statistical Office on households of

older people in Poland showed that people with secondary and higher education and still gaining

knowledge (including UTA students) are distinguished by better health, and greater physical

and intellectual fitness compared to with their peers who do not conduct this type of activity

[12].

The aim of the study was to assess the quality of aging of seniors living in the cities of

the Silesian conurbation (Poland).

Material and methods

436 seniors living in cities located in the Silesian conurbation were surveyed, including

340 (77.98%) attending the UTA classes and 96 (22.02%) not attending the above-mentioned

classes. Among them there were 362 (83%) women and 74 (17%) men. The research tool was

the original questionnaire supplemented with the standardized Successful Aging Index (SAI)

questionnaire.

The author's questionnaire consisted of a part containing socio-demographic questions,

as well as a part regarding the examined problem. It included questions about: participation in

the UTA activities, subjective assessment of changes occurring in life after retirement, ways of

spending free time, reasons for taking up physical activity, everyday activities, meetings with

family and friends, regular visits to the doctor, and the use of stimulants such as cigarettes and

alcohol.

SAI is used to assess successful aging. It consists of 12 questions, with answers scored

1 to 5 respectively. The domains of the questionnaire in which the assessment is made, as well

as the individual questions included in the result of a given domain, are as follows: health/well-

being (questions no.: 1, 2, 10, 11, 12), sense of security (questions no.: 7, 8, 9), retrospective

factors (questions no.: 3, 4, 5, 6). The proposed answers are scored from 1 to 5. The average of

the question points assigned to a given domain (health/well-being, sense of security,

retrospective factors) constitutes its result, and the sum of the domains is the indicator of

successful aging – SAI [14].

The inclusion criteria for the study were: voluntary consent and the ability to complete

the questionnaire independently, age 60 and over, and living in the cities of the Silesian

conurbation.

Completing the survey and the SAI questionnaire was completely anonymous. After

they were completed by the respondents, they were placed in white, unmarked envelopes, and

the envelopes were collected in one secured place. Opening envelopes with completed

questionnaires only when entering the results into the database made it impossible to identify

the people participating in the study.

In order to test the significance of differences between the analyzed subgroups, the Chi<sup>2</sup>

test was used for qualitative data and the U Mann-Whitney test for quantitative variables, due

to lack of normal distribution in the data. The level of statistical significance was set at p<0.05. All analyses were performed in Statistica 13.1 software.

## **Results**

The characteristics of the seniors of the study group, including the subjective assessment of their health, are presented in Table 1.

**Table 1.** Characteristics of the seniors in the study group, including the subjective assessment of their health

Subjective assessment	Sen partici			ors not pating in	Chi <sup>2</sup> test		
of the health of the surveyed seniors	in the UT			A classes	$\chi^2$	df	p
surveyed semons	n	%	n	%			1
Very good	17	5%	4	4.17%		4	0.02*
Okay	175	51.47%	39	40.63%	11.22		
Average	136	40%	44	45.83%	11.22		0.02
Bad	12	3.53%	9	9.37%			
Sum	340	100%	96	100%	-		

Notes: n – group size, % – percentage of respondents, UTA – Universities of the Third Age,  $\chi^2$ 

-  $\text{Chi}^2$  test result, df - degrees of freedom, p - statistical significance value, \* - statistical significance.

Seniors participating in the UTA classes most often assessed their health condition as good (175; 51.47%), and those who did not participate – as average (44; 45.83%). Observed differences were statistically significant (p=0.02).

The characteristics of the seniors in the study group, including the subjective assessment of changes in their lives after retirement, are presented in Table 2.

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**Table 2.** Characteristics of the seniors in the study group, including the subjective assessment changes in their lives after retirement

Subjective assessment of	partic	iors ipating	Seniors not participating in			Chi² test		
changes in the seniors' lives after	in the UTA classes			A classes	$\chi^2$	df	p	
retirement	n	%	n %					
No change	72	21.18%	28;	29.17%				
Change for better	177	52.06%	35; 36.46% 33; 34.37%		7.35	2	0.03*	
Change to worse	91	26.76%						
Sum	340	100%	96;	100%		-		

Notes: n – group size, % –percentage of respondents, UTA – Universities of the Third Age,  $\chi^2$  – Chi<sup>2</sup> test result, df – degrees of freedom, p – statistical significance value, \* – statistical

significance.

The greatest number of seniors assessed retirement as a change for the better in their lives, both in the group of seniors participating in the UTA classes (177; 52.06%) and in the group not participating in the classes mentioned above (35; 36.46%) Observed differences were statistically significant (p=0.03).

The characteristics of the seniors in the study group, taking into account the way they spend their free time, are presented in Table 3.

**Table 3.** Characteristics of the seniors in the study group, taking into account the way they spend their free time

		iors ipating	Seniors not			Chi <sup>2</sup> test		
Way to spend free time	in the	e UTA sses	participating in the UTA classes		$\chi^2$ df		р	
	n	%	n	%				
Active	249	73.24%	39	40.62%	32.65	1	<0.001*	
Passive	91	27.76%	57	59.38%	32.03		<0.001 ·	
Sum	340	100%	96	100%	-			

Notes: n – group size, % – percentage of respondents, UTA – Universities of the Third Age,  $\chi^2$  – Chi<sup>2</sup> test result, df – degrees of freedom, p – statistical significance value, \* – statistical significance.

About two-thirds of the surveyed seniors participating in the UTA classes (249; 73.24%) declared an active way of spending their free time, while in the group of seniors not participating in these activities, more of them declared a passive way of spending their free time (57; 59.38%). Observed differences were statistically significant (p<0.001).

The characteristics of the seniors in the study group, taking into account the most common reasons for undertaking physical activity in their free time, are presented in Table 4.

**Table 4.** Characteristics of the seniors in the study group, taking into account the most common reasons for taking up physical activity

The most common reasons for taking up physical activity	_	participating TA classes	Seniors not participating in the UTA classes		
	n	%	n	%	
Overall health improvement	122	35.89%	26	27.08%	
Improving fitness and physical performance	16	4.70%	25	26.04%	
Relaxation	109	32.06%	20	20.84%	
Making new friends	58	17.06%	14	14.58%	
A pleasant way to spend your free time	9	2.65%	2	2.08%	
Obtaining information about your own fitness and physical endurance	23	6.76%	8	8.34%	
Other	3	0.88%	1	1.04%	
Sum	340	100%	96	100%	

Notes: n – group size, % – percentage of respondents, UTA – Universities of the Third Age.

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All surveyed seniors most often undertook physical activity to improve overall health (in turn: participating in the UTA classes -122; 35.89%; not participating in the UTA classes -26; 27.08%).

The characteristics of the study group's seniors, taking into account their daily activities, are presented in Table 5.

**Table 5.** Characteristics of the seniors in the study group, taking into account their everyday life activities

Daily activities of seniors in the study group		Senio particip in the UTA	ating	Senior particij in the UT	pating	Chi <sup>2</sup> test		est
		Yes	Not	Yes	Not	$\chi^2$	df	p
Independent performance of activities such as	n	292	48	60	36	26.31	1	<0.001*
cleaning, shopping, getting dressed, toilet of the body	%	85.88%	14.12%	62.50%	37.50%			
Regular meetings with	n	330	10	90	6	2.32	1	0.13
family and friends	%	97.06%	2.94%	93.75%	6.25%	2.32		
Regular visits to the family doctor and	n	304	36	84	12	0.28	0.28 1	0.60
regular check-ups	%	89.41%	10.59%	87.50%	12.50%			
G	n	340	)	90	5			
Sum		100%		100%			-	

Notes: n – group size, % – percentage of respondents, UTA – Universities of the Third Age,  $\chi^2$  – Chi<sup>2</sup> test result, df – degrees of freedom, p – statistical significance value, \* – statistical significance.

The vast majority of the surveyed seniors, also those participating in the UTA classes, were independent in performing everyday activities (successively: 292; 85.88% and 60; 62.5%), regularly met their family and friends (successively: 330; 97.06% and 80; 83.33%) and were systematically examined (successively: 305; 89.7% and 84; 87.5%). The Chi<sup>2</sup> test showed a statistically significant difference between seniors participating and not attending the UTA classes (p<0.001) in terms of independently performing everyday activities.

The characteristics of the seniors in the study group, with regard to attending the cinema/theater or museum, are presented in Table 6.

**Table 6.** Characteristics of the seniors in the study group, with regard to attending the cinema/theater or museum

A 44 on din a 4h a		niors	Seniors not		Chi <sup>2</sup> test			
Attending the cinema/theater or museum	participating in the UTA classes		participating in the UTA classes		$\chi^2$	df	p	
	n	%	n	%				
At all	19	5.29%	35	36.46%				
Several times a month	97	28.52%	10	10.42%				
Several times a year	204	60%	38	39.58%	79.03	3	<0.001*	
Once in a couple of years	20	6.19%	13	13.54%				
Sum	340	100%	96	100%	TT	C.1 FD	2	

Notes: n – group size, % – percentage of respondents, UTA – Universities of the Third Age,  $\chi^2$ 

-  $\text{Chi}^2$  test result, df - degrees of freedom, p - statistical significance value, \* - statistical significance.

Most of the surveyed seniors attended the cinema/theater or museum several times a year, regardless of their participation in the UTA classes (consecutively: participating in the

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UTA classes – 204; 60%; not participating in the UTA classes – 38; 39.54%). Observed differences were statistically significant (p<0.001).

The characteristics of the seniors in the study group, taking into account the use of stimulants, are presented in Table 7.

**Table 7.** Characteristics of the seniors in the study group, taking into account the use of stimulants

The use of stimulants by the seniors in the study group	Seniors participating in the UTA classes		particip	Seniors not participating in the UTA classes		
	n	%	n	%		
Smoking – currently	28	8.23%	7	7.29%		
Smoking – in the past	127	37.35%	33	34.37%		
Consuming alcohol	193	56.76%	50	52.08%		
Sum	340	100%	96	100%		

Notes: n – group size, % – percentage of respondents, UTA – Universities of the Third Age.

Over half of the seniors, also those participating in the UTA classes, consumed alcohol (successively: 193; 56.76% and 50; 52.08%), and over one third used tobacco in the past (successively: 127; 37.35% and 33; 34.37%).

Table 8 presents the results of the individual homes and successful aging rate of the studied group of seniors according to the SAI scale.

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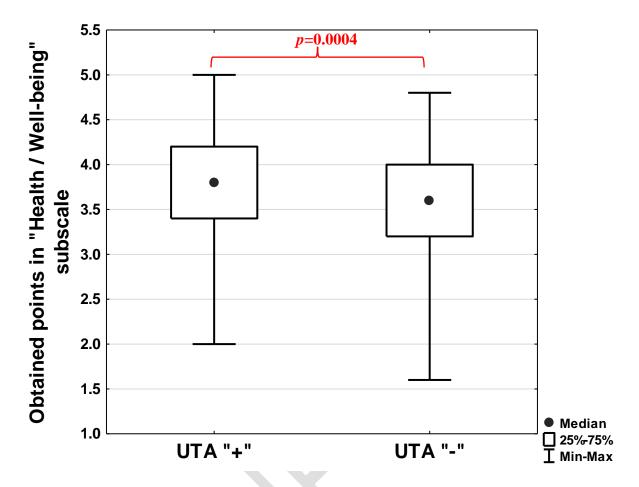
**Table 8.** SAI scale – the individual home scores and successful aging rate of the studied group of seniors

		Seniors	Seniors not	
Individual home scores and successful aging rate of the surveyed seniors group according to the SAI scale		participating in the UTA classes [Me (Q <sub>1</sub> -Q <sub>3</sub> )]	participating in the  UTA classes  [Me (Q <sub>1</sub> -Q <sub>3</sub> )]	
Successfu	Successful aging indicator		11.43 (10.37-12.78)	
	Health / Wellbeing	3.80 (3.40-4.20)	3.60 (3.20-4.00)	
SAI domains	Sense of security	4.00 (3.67-4.33)	4.00 (3.67-4.67)	
	Retrospective factors	3.75 (3.50-4.25)	3.75 (3.50-4.25)	

Notes: SAI – Successful Aging Index, UTA – Universities of the Third Age, Me – median,  $Q_1$  – lower quartile,  $Q_3$  – upper quartile.

The successful aging rate in the group of seniors participating in the UTA classes was slightly higher 11.75 (Q1:10.73; Q3: 12.52) than in the group of seniors not participating in the classes 11.43 (Q1:10.37; Q3: 12.78). The highest score was obtained in both groups in the "sense of security" domain, but a statistically significant difference (U Mann-Whitney: Z=3.54; p=0.0004) between the points obtained by the study groups was shown only in the "health/wellbeing" subscale, as shown in Figure 1.

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**Figure 1.** Comparison of points obtained by the respondents in the "Health/Well-being" subscale using the Mann-Whitney U test

Notes: UTA – Universities of the Third Age.

## **Discussion**

The classes conducted at UTA are a very popular form of activation of the elderly. One of the main goals of these classes is to improve the quality of life of seniors [12]. Therefore, it was assumed that the quality of life of seniors belonging to the group of UTA students would be greater than that of seniors who were not students. Our own research showed that the SAI, which describes the quality of successful aging, was only slightly higher in the group of UTA students (11.75) compared to the group of seniors not attending the above-mentioned classes

(11.43). However, the highest score was obtained in both groups in the "sense of security" domain, but a statistically significant difference (p=0.0004) between the points obtained by the study groups was shown only in the "Health/Well-being" subscale. Seniors who participated in the UTA classes, assessed their health better compared to seniors who did not participate in them and the observed differences were statistically significant (p=0.02).

As Burshtein et al. pointed out, the retirement process is an individualized endeavor influenced by personal values and the surrounding environment. It is divided into three main stages: preparing for retirement, transitioning to retirement, and adjusting to retirement. The ability to successfully implement retirement plans is directly related to retirement satisfaction [15]. Honarvar et al. in their research showed that satisfaction with retirement is related to the assessment of the quality of life and life satisfaction [16]. In their own research, the moment of retirement was assessed by seniors as a change for the better in their lives, both in the group of seniors participating in the UTA classes and in the group of seniors not participating in them. This was probably related to the fact that the study group included people living only in cities that statistically have a better quality of life than people living in the countryside [17]. However, Seń et al. examined the quality of life of the elderly, both in the city and in the countryside, and used the scales and the World Health Organization Quality of Life - BREFF (WHOQOL-BREFF). In their research, rural residents obtained higher results in most domains constituting the assessment of the quality of life [18]. In the study by Grabaccio et al., older people living in rural areas had good quality of life and health. Similar results were obtained by Wu et al., who described a better quality of life among people living in newly established urban districts in China, but retaining rural habits and lifestyle [19]. In light of the above reports, it is planned to extend the conducted research to the group of seniors living in rural areas in the Silesian conurbation and to compare the results in both groups.

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In their analysis of the problems of an aging society, Lejzerowicz-Zajączkowska et al. stated that physical activity had a significant impact on increasing independence, and thus improved the quality of life of the elderly [20]. In this research, almost two-thirds of the surveyed seniors participating in the UTA classes declared an active way of spending their free time, while in the group of seniors not participating in these activities, more seniors declared a passive way of spending their free time, and it was statistically significant (p < 0.001). The UTA students were more often physically active, probably because they had the opportunity to take advantage of the physical activities organized by UTA to which they belonged, and because they managed their free time more efficiently thanks to the knowledge acquired during the above-mentioned classes [12]. In this research, seniors most often undertook physical activity to improve their health in general. Baj-Korpak et al. stated that the most common motivation for taking up physical activity by the seniors they examined was the desire to improve physical fitness (20%) [21]. In their work on physical activity and mental health of older people, Hemmeter et al. noted that physical activity can prevent depression and dementia [22]. Other authors also obtained similar results [23-25].

According to the data from the Central Statistical Office, every second person aged 65 and over has limitations in performing domestic activities due to health problems [26]. In our own research, most seniors were independent in carrying out everyday activities and regularly met with family and friends. There was shown a statistically significant difference between seniors participating and not attending the UTA classes (p<0.001) in above-mentioned everyday activities. Baj-Korpak et al., in turn, observed that regular meetings with family and friends among seniors were in third place among the most common forms of spending free time they surveyed (20%) [21]. Attending the UTA classes can prevent seniors from being socially excluded and provide an opportunity to meet frequently with people of a similar age to them [12]. Wróblewska et al. in their research showed that for more than half of the respondents, the most common reason for participating in the UTA activities was maintaining relationships with

people from the same age group [27].

Most of the surveyed seniors attended the cinema/theater or museum several times a

year, also regardless of their participation in the UTA classes. Obtaining such a result was

probably also related to the fact that all the surveyed seniors lived in cities where the number

and variety of cultural centers is large, and access to them is easy. There is a positive trend

worldwide regarding the employment of older people in museums or other cultural centers as

guides or service staff to prevent social exclusion of such people.

In this research, seniors were asked about the use of stimulants. More than half of them,

also those participating in the UTA classes, consumed alcohol and over one third used tobacco

in the past. Both alcohol consumption and cigarette smoking are risk factors for many diseases,

including cardiovascular diseases and cancer [28-30]. Bartoszek et al. observed that almost 30%

of the seniors surveyed by them had contact with tobacco. They also showed that as many as

83.6% of the seniors drank alcohol, although it was noted that only occasionally [31].

Mihailovic et al. showed that the prevalence of alcohol consumption among people over 55

years of age in Serbia and Hungary was 41.5% and 62.5%, respectively. In both countries,

alcohol was consumed more often by men than women [32]. However, in Poland, according to

the analyses of the Organization for Economic Co-operation and Development (OECD), men

consumed 18.4 liters of pure alcohol per year, and women - 5.6 liters [33]. In turn, when it

comes to smoking, there are many reports in the literature regarding the prevalence of smoking

among young or middle-aged people, but not seniors [34-36]. This may be due to the fact that

older people usually do not smoke or smoked in the past and quit, which was also shown by

our own research.

As indicated by the results of the European Health Interview Survey (EHIS) elderly

people often underwent basic preventive examinations [26]. In this research, the vast majority

of seniors also systematically went to medical appointments and were examined regularly,

regardless of attending the UTA classes. Such a result was probably obtained because all the

surveyed seniors lived in cities where the number of medical facilities and actively working

medics is large, therefore access to medical services is facilitated.

**Conclusions** 

1. The quality of aging of the surveyed seniors living in the cities of the Silesian

conurbation was good, while the self-assessment of their own health was better in the

group of the UTA students compared to the non-participants.

2. Attending the UTA classes mobilized the surveyed seniors to spend their free time

actively, but the most common motives for undertaking physical activity in both groups

were similar.

3. The surveyed seniors of the Silesian conurbation, regardless of their participation in the

UTA classes, actively participated in social and cultural life, were regularly examined,

but unfortunately also used stimulants.

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