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# Health Profile: Bratislava, Slovakia

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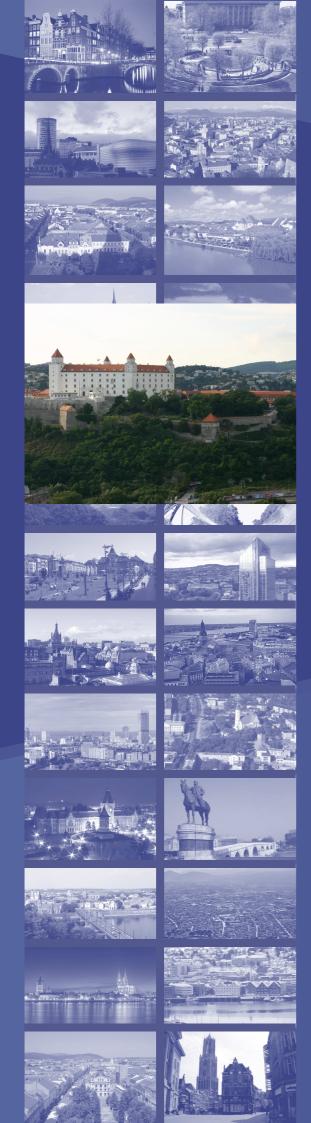
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# Health Profile: Bratislava, Slovakia

Taking cities to a healthier future







# Depression and anxiety were as often reported in Bratislava as in the other EURO-URHIS 2 cities.

All-cause mortality in both males and females is similar in Bratislava as in other EURO-URHIS 2 cities. Mortality from malignant neoplasms and from diseases of the circulatory and respiratory system does not differ.

Heavy episodic drinking in Bratislava youth and binge drinking in adults occur less often than in other EURO-URHIS 2 cities. Smoking in youth occurs less often, whereas smoking in adults occurs as often as in other EURO-URHIS 2 cities.

The proportion of both youth and adults who are overweight or obese is similar to the overall EURO-URHIS 2 proportion.

Health and health determinants in Bratislava vary considerably by age, gender and level of education.

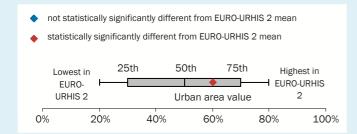
# This health profile describes the health situation and associated health determinants in Bratislava compared with those observed in other European urban areas.

Bratislava is one of the urban areas chosen for EURO-URHIS 2 (European Urban Health Indicator System Part 2), a project that aims to identify health problems in urban areas. The EURO-URHIS 2 project describes health and health determinants specific to urban areas in Europe, covering cities in North, East, South, and West Europe. This project may add to information that is already locally available, in that it is the first study to enable reliable comparisons of health status between different cities in Europe. Policy makers can use the information to prioritise topics for urban health policy and for interventions in an evidence-based way.

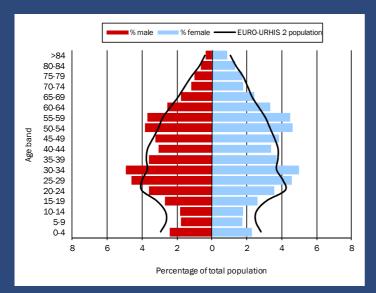
EURO-URHIS 2 gathered information by collecting data from routinely available registration data, and by conducting youth and adult surveys at the end of 2010. In total, data from 26 urban areas in Europe were available for between-city comparisons and benchmarking.

The routinely available registration data relate to the most recently available year (2005-2009). The youth survey was a school-based survey of 14-16 year olds. In Bratislava, 570 students completed a valid questionnaire. The adult survey was carried out involving a representative sample of adults aged 19-64 and 65+. In Bratislava, 253 19-64 year olds and 304 65+ year olds completed valid questionnaires.

More detailed information on the justification of methods and instruments that were used, as well as response rates, selection of cities and indicators, and statistical methodology, can be found on our websites: www.urhis.eu and http://results.urhis.eu. The websites also provide data from other participating urban areas and comparisons between specific cities can be made.



The graphs in this health profile show the health status of the urban area compared to other EURO-URHIS 2 urban areas. The whiskers represent the lowest and highest value within the EURO-URHIS 2 project on a scale of 0 to 100%. The grey bar represents the 25<sup>th</sup>, 50<sup>th</sup>, and 75<sup>th</sup> percentile. The urban area value is shown as a diamond, which is blue when the value is not statistically significantly different from the EURO-URHIS 2 mean and red when the difference is statistically significant (at the 5% level).



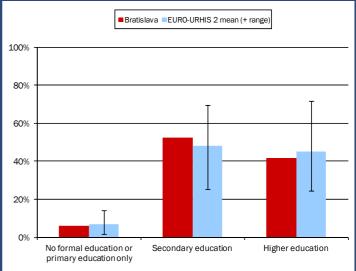


Figure 1. Age distribution

Figure 2. Level of education

Differences in health status may possibly be explained by age and education. Figures 1 and 2 show the age distribution and level of education in Bratislava compared to the other EURO-URHIS 2 urban areas. Age did not explain any observed differences in the adult survey between Bratislava and other EURO-URHIS 2 urban areas. Education differences between adults from Bratislava and other EURO-URHIS 2 cities could explain the significantly different level of damp spots or mould at home.

#### **DISCLAIMER**

To achieve maximum quality of the data, all instruments used were based on knowledge of earlier studies and expert consultations, and were piloted, validated, and optimised. The survey questionnaires of EURO-URHIS 2 were based on already existing, validated instruments; selected indicators were as little culturally sensitive as possible. Questionnaires were translated in the local language(s) and, for validation purposes, back-translated into English. Youth survey response rates were generally very high. In the adult survey, a minimum response rate of 30% was required to be included for benchmarking. Despite all our efforts, and as in any survey, the point estimates for certain health indicators in your urban area may deviate from other estimates, and may not be comparable to other local information due to differences in study methodology and indicator definitions. If you would like further information regarding the methodology, please see our websites: http://www.urhis.eu and http://results.urhis.eu.

#### **Health-related Characteristics of Bratislava**

Indicator		Bratislava	Slovakia	EURO-URHIS 2 range (percentiles)					EURO- URHIS 2	N
				min	25th	50th	75th	max	mean	IN .
	1. Population size (x1,000)	429	5,401	67	264	406	708	2,565	570	23
	2. Population density	1,166	110	27	1,115	2,040	2,840	4,580	1,974	24
hic	3. Population aged 0-19 years	17%	23%	17%	20%	22%	24%	28%	22%	23
grap	4. Population aged 65+ years	13%	12%	7%	11%	14%	15%	20%	14%	23
Demographic	5. Live births	41	47	39	45	52	58	75	53	24
۵	6. Teenage pregnancies	6	21	4	7	11	20	33	14	18
	7. Pregnancies after age 35	23	16	7	18	23	33	59	28	18
0	8. Unemployment (age 19-64)	3.8%	-	3.6%	4.0%	4.9%	7.2%	10.2%	5.8%	16
o mic	9. Higher level education	42%	-	25%	33%	45%	53%	72%	45%	16
Socio- economic	10. Not enough money	22%	-	5%	11%	16%	22%	61%	21%	16
Ф	11. Low family wealth	12%	-	5%	7%	13%	21%	44%	16%	20
10 —	12. MMR vaccinated	100%	99%	83%	88%	94%	97%	100%	93%	19
를 ä	13. DTP vaccinated	99%	99%	83%	93%	95%	97%	99%	94%	19
Health System	14. Cervical smear test	77%	-	41%	62%	70%	76%	83%	68%	16
	15. Cholesterol measurement	61%	-	23%	42%	47%	52%	64%	47%	16
	16. Life expectancy - male	73.3	70.8	68.2	71.0	75.3	76.1	77.0	73.6	18
± si	17. Life expectancy - female	79.6	79.0	76.2	78.5	80.2	81.0	82.0	79.7	18
Health Status	18. Infant mortality	1.5	5.9	1.3	3.5	4.9	5.7	9.4	5.0	24
	19. Low birth weight	5.4%	7.3%	2.7%	5.2%	6.6%	8.1%	11.8%	6.7%	22

#### Table 1. Health-related characteristics of Bratislava

Source. Indicators 1-7, 12-13, and 16-19: routinely available registration data; indicators 8-10 and 14-15: adult survey; indicator 11: youth survey. Missing data are indicated by "-".

N = number of urban areas that were able to collect data on the specific indicator.

1. number of inhabitants; 2. number of inhabitants per km²; 3. % of inhabitants aged 0-19 years; 4. % of inhabitants aged 65 years or older; 5. number of births per 1,000 women aged 15-44 years; 6. number of births per 1,000 women aged 15-49 years; 7. number of births per 1,000 women aged 35-44 years; 8. % of adults aged 19-64 years who are unemployed; 9. % of adults who attained higher level education; 10. % of adults who do not have enough money for daily expenses; 11. % of youth who live in a low wealth family, as defined by a FAS (Family Affluence Scale) score of ≤3; 12. % of population who have completed measles, mumps, and rubella (MMR) vaccination courses before school-age; 13. % of population who have completed diphtheria, tetanus, and poliomyelitis (DTP) vaccination courses before school-age; 14. % of adult women who have undergone a cervical smear test within the past three years; 15. % of adults who had their serum cholesterol measured within the last year; 16-17. number of years that a newborn is expected to live if current mortality rates continue to apply; 18. annual number of deaths of children under one year of age, per 1,000 births; 19. % of total live births weighing less than 2,500 grams

Compared to other cities in EURO-URHIS 2, Bratislava is an urban area with average population density and a relatively small population of children and adolescents. The proportion of 25-34 and 50-64 year olds is relatively large. The number of annual live births in Bratislava is lower than the overall EURO-URHIS 2 mean. Teenage pregnancies are relatively uncommon.

The percentage of inhabitants with higher level education in Bratislava (42%) is similar to the overall EURO-URHIS 2 mean. The proportion of adults who reported to not have enough money for daily expenses (22%) is significantly higher than in the other EURO-URHIS 2 urban areas. The percentage of youth that reported to live in poor families (12%) is significantly lower than the EURO-URHIS 2 mean.

The proportion of people who have completed MMR and DTP vaccination courses is higher than in other EURO-URHIS 2 urban areas. The proportion of females who have undergone a cervical

smear test and the proportion of adults who had their serum cholesterol measured are higher compared to the other EURO-URHIS 2 cities.

Life expectancy at birth is an indicator for the general health status of a population. In Bratislava, male life expectancy is 73.3 years and female life expectancy is 79.6 years, which are both similar to the overall average in EURO-URHIS 2.

Infant mortality is an indicator for population health and quality of health care services. With an infant mortality rate of 1.5 per 1,000 live births, Bratislava belongs to the 25% of urban areas in EURO-URHIS 2 with the lowest infant mortality.

At the population level, low birth weight is an indicator for pregnancy conditions and perinatal care. Low birth weight can at the individual level also result in health problems later in life. Of all newborns in Bratislava, 5.4% had a low birth weight, which is comparable to the overall EURO-URHIS 2 mean.

#### YOUTH HEALTH STATUS

Indicator		Bratislava	EUR	EURO- URHIS 2	N		
	indicator.	Bradolava	0%	50%	100%	mean	'`
य	1. Good self-perceived health	95%			<b>⊢</b>	92%	20
Health Status	2. Elevated risk of psychological problems	29%	<u> </u>	<b>↔</b>		20%	20
ş	3. Psychosomatic symptoms	11%	HIDH			10%	20
ž	4. Low back pain	42%		<b>—</b>		42%	20
	5. Overweight and obesity	15%	н			13%	15
	6. Physical activity ≥2 hours/week	60%				50%	20
	7. Regular fruit consumption	52%		<b>—</b>		49%	20
	8. Regular vegetable/salad consumption	38%		<b>←</b>	_	52%	20
Lifestyle Factors	9. Regular tooth brushing	72%		<b>—</b>		72%	20
e Fa	10. Frequently watching television	69%				60%	20
sstyle	11. Daily smoking	9%	H			12%	20
Life	12. First smoking ≤13 years	34%	<u> </u>	<del></del>		24%	20
	13. Heavy episodic drinking	28%	<u> </u>	<u> </u>		33%	20
	14. First alcohol ≤13 years	62%	H	<b> </b>		53%	19
	15. Ever used cannabis	13%	<b>—</b>	<b>—</b>		16%	20
	16. Unprotected sexual intercourse	4%	н∎⊣			4%	20
_ بے	17. Crime in area	44%	-	•		35%	20
Environ- ment	18. Involved in traffic accident	4%	<b>*</b>			7%	18
- 등 -	19. Being bullied	9%	н			7%	20

Table 2. Health status and determinants in youth (14-16 years)

Source. Indicators 1-19: youth survey. Missing data are indicated by "-". N = number of urban areas that were able to collect data on the specific indicator.

1. % of youth who perceive their health as good, very good, or excellent; 2. % of youth with an overall Strengths and Difficulties Questionnaire (SDQ) score of 20 or higher; 3. % of youth who reported a lot of headaches, stomach aches, or sickness during the past six months; 4. % of youth who experienced low back pain during the past month; 5. % of youth overweight or obese according to the international BMI cut-offs; 6. % of youth who participate in vigorous physical activity for more than two hours per week in their free time; 7. % of youth who eat fruit on most days of the week; 8. % of youth who eat vegetables and/or salads on most days of the week; 9. % of youth who brush their teeth more than once a day; 10. % of youth who watch television for more than two hours on weekdays; 11. % of youth who smoke tobacco every day; 12. % of youth who reported first smoking at ≤13 years; 13. % of youth who drank five or more units of alcohol on one occasion during the past 30 days; 14. % of youth who reported first drinking alcohol at ≤13 years; 15. % of youth who ever used cannabis; 16. % of the total youth population who did not use a condom the last time they had sexual intercourse; 17. % of youth who reported presence of crime, violence, or vandalism in the area where they live; 18. % of youth who had a road traffic accident resulting in injury over the past 12 months; 19. % of youth who have been bullied at least twice in the past couple of months

#### **Health Status and Determinants in Youth**

Table 2 gives an overview of the health status and determinants in Bratislava youth, as reported from the survey. Self-perceived health is a measure of adolescent well-being. 95% of youth in Bratislava perceived their health to be (very) good or excellent, which is significantly higher than the overall EURO-URHIS 2 proportion. A significantly higher proportion of youth were identified with an elevated risk of psychological problems (29%).

Childhood obesity is related to a higher risk of obesity, disability, and premature death later in life. In Bratislava, 15% of youth are overweight or obese, which is similar to the overall EURO-URHIS 2 proportion. Physical activity can contribute to maintaining a healthy weight and preventing the occurrence of chronic conditions. Furthermore, physical activity is associated with psychological benefits and with a better school performance in young people. The proportion of youth who reported

participation in vigorous physical activity for two or more hours per week is significantly higher in Bratislava (60%), compared to the overall EURO-URHIS 2 proportion. Sedentary behaviour is related to being overweight and obese, independent of physical activity. Youth in Bratislava watch significantly more television on weekdays compared to other urban areas in EURO-URHIS 2. A healthy diet can lower the risk of obesity. Regular consumption of vegetables occurs less frequently in Bratislava than in other EURO-URHIS 2 urban areas.

Initiation of smoking and drinking alcohol at a young age is a strong predictor of smoking during adulthood and of later problems with alcohol. Smoking and drinking alcohol at the age of 13 or younger occur significantly more often in Bratislava than in other EURO-URHIS 2 cities.

The proportion of youth in Bratislava who smoke daily (9%) is lower than the overall EURO-URHIS 2 proportion. Heavy episodic drinking of five or more units of alcohol on one occasion was reported significantly less often in Bratislava (28%) compared to the total EURO-URHIS 2 population.

Regular cannabis use in young people can lead to impaired cognitive development. 13% of youth in Bratislava have ever used cannabis, which is lower than the overall EURO-URHIS 2 proportion.

Neighbourhood crime, violence, or vandalism was significantly more often reported by youth in Bratislava (44%) compared to other cities. Significantly less students were involved in traffic accidents that resulted in injury. The proportion of youth who were victims of bullying in the past couple of months was significantly higher compared to the other urban areas in EURO-URHIS 2.

#### **ADULT HEALTH STATUS**

Indicator		Bratislava	Slovakia	EURO-URHIS 2 range (percentiles)					EURO- URHIS	
				min	25th	50th	75th	max	2 mean	N
Morbidity	1. HIV/AIDS incidence - male	7	2*	2	6	8	23	71	16	19
	2. HIV/AIDS incidence - female	0	0*	0	2	6	12	16	7	19
' <b>≥</b> ''	3. Tuberculosis incidence	6	12	5	11	17	39	153	33	22
	4. Lung cancer incidence	42	41	29	42	55	62	103	54	13
	5. All-cause mortality - male	972	1,257	654	752	834	1,014	1,426	919	19
	6. All-cause mortality - female	590	694	362	495	542	640	821	560	19
	7. Malignant neoplasms - male	250	293	195	230	245	258	336	250	22
<u>≩</u>	8. Malignant neoplasms - female	154	143	114	143	153	162	232	154	22
Mortality	9. Diseases of the circulatory system - male	454	636	154	227	298	456	676	353	22
y Y	10. Diseases of the circulatory system - female	298	413	91	147	199	299	406	220	22
	11. Diseases of the respiratory system - male	62	78	32	55	62	80	158	72	22
	12. Diseases of the respiratory system - female	26	36	12	21	36	50	120	43	22
	13. Transport accidents	11	14	1	3	5	11	16	7	21
	14. Suicide and intentional harm	9	9	4	8	11	15	29	12	22

#### Table 3. Morbidity and mortality

Source. Indicators 1-14: routinely available registration data. Missing data are indicated by "-".

1-4. Number of newly diagnosed cases with a specific disease per 100,000 persons per year; 5-6. All-cause mortality rate per 100,000 persons per year (standardised on European population); 7-14. Mortality rate due to a specific cause per 100,000 persons per year (standardised on European population)

### **Health Status and Determinants in Adults**

The health status of a population can be assessed by using a number of parameters, such as those referring to acute and chronic disease, mortality, psychological well-being, and self-perceived health. Table 3 and indicators 1-8 of Table 4 show the overall health status among adults in Bratislava, compared to other cities in Europe. The results show that in

Bratislava the incidence of tuberculosis and HIV/AIDS in females is lower than the overall average in all EURO-URHIS 2 urban areas.

All-cause mortality in both males and females is comparable to other cities.

<sup>\*</sup> Country level data include HIV incidence only.

N = number of urban areas that were able to collect data on the specific indicator.

## **Health Status and Determinants in Adults (continued)**

	la dia da c	Buskislava	EUR	O-URHIS 2 range (perce	EURO-		
	Indicator	Bratislava	0%	50%	100%	URHIS 2 mean	N
	1. (Very) good self-perceived health	64%		<b>•</b>		64%	16
	2. Psychological problems	23%	<b>⊢</b>	<del></del>		23%	16
S	3. Depression/anxiety	6%	₩			9%	16
Stat	4. Cardiovascular disease (age 65+)	11%	I			18%	16
Health Status	5. Cancer	2%	₩-			2%	16
瓷	6. Asthma or bronchitis	5%	<b>€</b> □-1			7%	16
	7. Long-standing illness with restrictions	31%	Н	•		28%	16
	8. Low back pain	46%		H +		45%	16
	9. Regular consumption of fruit/vegetables	37%	H	<b>———</b>		53%	16
	10. Regular breakfast	80%		-	<b>—</b>	78%	16
Lifestyle Factors	11. Being physically active ≥twice a week	46%				46%	16
Fac	12. Overweight and obesity	54%		<b>⊢</b>		50%	16
style	13. Daily smoking	21%	Н			18%	16
Life	14. Passive smoking by non-smokers	9%	H	ı		13%	16
	15. Binge drinking	10%	H	<del></del>		17%	16
	16. Cannabis last year (age 19-64)	1%				5%	16
	17. Green areas suitable for recreational activities	90%			<b>————</b>	84%	16
nent	18. Belonging to immediate neighbourhood	43%		<b>—</b>		54%	16
Environment	19. Social cohesion in neighbourhood	37%		<b>+</b>		52%	16
invi	20. Exposure to severe noise	20%				14%	16
	21. Damp spots or mould at home	20%	I			27%	16

Table 4. Health status and determinants in adults (19 years and older)

Source. Indicators 1-21: adult survey. Missing data are indicated by "-".

N = number of urban areas that were able to collect data on the specific indicator.

1. % of adults who perceive their health to be good or very good; 2. % of adults with a score of four or more on the General Health Questionnaire (GHQ); 3. % of adults who reported to be diagnosed with or treated for anxiety or depression during the past year; 4. % of adults aged 65 years and older who were diagnosed with or treated for heart attack, angina, or heart failure during the past year; 5. % of adults who were diagnosed with or treated for chronic bronchitis during the past year; 7. % of adults who suffer from any long-standing illness, long-standing effect from injury, disability, or other long-standing condition; 8. % of adults who had low back pain longer than one day in the past month; 9. % of adults who eat, on average, four or more portions of fruit and/or vegetables per day; 10. % of adults who have breakfast at least four times a week; 11. % of adults who are physically active for at least 30 minutes twice a week or more; 12. % of adults overweight or obese, defined as a BMI of ≥25 kg/m²; 13. % of adults who smoke every day; 14. % of non-smokers who are exposed to second-hand smoking inside their home; 15. % of adults who drink six or more portions of alcohol on one occasion, at least once a week (men) or at least once a month (women); 16. % of adults aged 19-64 years who used cannabis during the past year; 17. % of adults who perceive the green areas in their neighbourhood to be suitable for active recreational activities; 18. % of adults who feel that they belong to their immediate neighbourhood; 19. % of adults who perceive their neighbourhood to be socially cohesive; 20. % of adults who were exposed to severe noise from outdoors during the past 12 months; 21. % of adults who had wet or damp spots and/or mould or mildew inside their homes (other than in basements) within the past 12 months

The proportion of people in Bratislava who perceive their health to be good or very good (64%) does not differ from the average in the other urban areas in EURO-URHIS 2. Also the percentage of adults who reported psychological problems in Bratislava (23%) is comparable to other urban areas in EURO-URHIS 2. Cardiovascular disease in the elderly was significantly less often reported.

Several lifestyle factors and environmental determinants can affect health (Table 4, indicators 9-21). Daily smoking, for instance, increases the risk of cancer, particularly lung cancer. Smokers are also at far greater risk of developing heart disease, stroke, and emphysema. Binge drinking is associated with many health problems, which include injuries and violence, sexually transmitted diseases, alcohol dependency, liver disease, and neurological damage. The percentage of persons who smoke daily (21%) does not differ from other EURO-URHIS 2 cities.

The proportion of adults who regularly drink more than six units of alcohol (10%) is significantly lower in Bratislava compared to the overall EURO-URHIS 2 mean.

Being overweight and obese are important determinants of death worldwide. They increase the risk of cardiovascular diseases, diabetes, musculoskeletal disorders, and some cancers. In Bratislava, 54% of the adults are overweight or obese, which is comparable to the overall EURO-URHIS 2 proportion. Being overweight and obese are related to lack of regular physical activity. Being physically active reduces the risk of hypertension, coronary heart disease, stroke, diabetes, breast and colon cancer, depression, and the risk of injury caused by falls. The proportion of adults in Bratislava physically active more than twice a week (46%) does not differ from the total EURO-URHIS 2 proportion.

A healthy diet can lower the risk of obesity. Adults in Bratislava less frequently eat fruit and vegetables compared to the other cities.

Psychological well-being may be influenced both by the availability of green spaces in the neighbourhood that are suitable for recreational activities and by aspects of social cohesion. In Bratislava, 90% perceived their green spaces to be suitable for recreational activities, whereas this proportion is

significantly lower in other cities. The percentage of adults who perceived their neighbourhood to be socially cohesive was 37%, which is significantly lower than the overall EURO-URHIS 2 average. A significantly lower percentage of people feel that they belong to their immediate neighbourhood. Exposure to severe noise from outdoors was more often reported in Bratislava, whereas the presence of damp spots or mould and mildew inside their homes occurred less often.

Indicator			Age		Gender		Education level	
		Total Population	19-64	65+	Male	Female	Secondary level or lower	Higher level
Hea	1. (Very) good self-perceived health	64%	71%*	31%*	66%	63%	56%*	76%*
Health Status	2. Psychological problems	23%	22%	24%	18%	26%	27%	17%
主の	3. Long-standing illness with restrictions	31%	26%*	60%*	33%	30%	35%	26%
	4. Overweight and obesity	54%	51%*	67%*	71%*	39%*	56%	51%
ε	5. Daily smoking	21%	23%*	8%*	24%	18%	27%*	13%*
acto	6. Binge drinking	10%	10%	10%	13%	6%	10%	9%
yle F	7. Regular consumption of fruit/vegetables	37%	36%	38%	26%*	46%*	35%	39%
Lifestyle Factors	8. Being physically active ≥twice a week	46%	44%*	57%*	46%	47%	48%	44%
	9. Social cohesion in neighbourhood	37%	36%	43%	33%	40%	35%	39%

Table 5. Health and health determinants by demographic groups in Bratislava

Source. Adult survey.

Indicators are defined in Table 4. Missing data are indicated by "-".

# **Health and Health Determinants by Demographic Groups**

Health and health determinants can vary considerably as according to age, gender, and education. Table 5 subdivides a selection of important health indicators in Bratislava by subgroup: respondents aged 19-64 and 65+ years, males and females, and adults who achieved secondary level education or lower and higher level education.

Respondents aged 19-64 years in Bratislava more often perceived their health to be good or very good and were less often restricted by a long-standing illness, than is the case for older respondents. Younger respondents had a lower tendency to be overweight or obese, were more likely to be daily smokers, and less often engaged in physical activity. The occurrence of psychological problems, binge drinking, fruit and vegetable consumption, and perceived social neighbourhood cohesion did not differ by age.

Men and women in Bratislava did not differ in self-perceived health, the occurrence of psychological problems, and restrictions due to long-standing illness. Neither did the percentage of daily smoking, binge drinking, physical activity, and perceived social neighbourhood cohesion differ between sexes. Men in Bratislava had a greater tendency to be overweight or obese and less frequently ate fruit and vegetables compared to women.

Adults in Bratislava who attained secondary level education or lower less often perceived their health to be good or very good than adults with higher level education and were more likely to be daily smokers. All other studied indicators did not differ by education level.

<sup>\*</sup> Statistically significant difference between subgroups at the 5% level.

## **Healthy Life Expectancy**

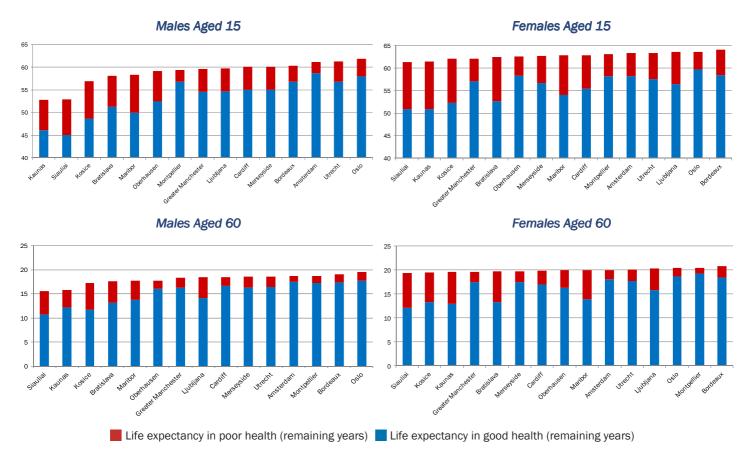


Figure 3. Healthy Life Expectancy

Presented here are estimates of healthy life expectancy (HLE) at ages 15 and 60 for men and women in eligible EURO-URHIS 2 urban areas. HLE was calculated first by estimating life expectancy at each age using recent 5-year averages of all-causes mortality for each urban area. From this, life expectancy was broken down into years living in good and poor perceived health, estimated using responses to the EURO-URHIS 2 adult survey question: How is your health in general?: Very good/Good/Fair/Bad/Very bad/Don't know, and the youth survey question: In general, would you say your health is..?: Excellent/Very Good/Good/Fair/Poor. Those answering very good, good or fair on the adult survey were classed as being in good perceived health, with the remainder in poor perceived health. For the youth survey, fair and poor were categorised as poor perceived health to match the scale applied to the adult survey. It was then possible to calculate the total years in good and poor perceived health and present this as a population level HLE. Full details on this process will be available in the final EURO-URHIS 2 project report, available at www.urhis.eu.

Male life expectancy in Bratislava at age 15 was 58.0 years. This was 3.8 years less than the highest in the sample (Oslo, 61.8 years), and 5.2 years more than the lowest (Kaunas, 52.8 years). At this age, males were estimated to spend 51.3 years in good perceived health. This is 7.4 years less than the longest HLE (Amsterdam, 58.7 years) and 6.2 years more than the shortest (Siauliai, 45.1 years).

Male life expectancy in Bratislava at age 60 was 17.7 years. This was 1.9 years less than the highest in the sample (Oslo, 19.6 years), and 2.1 years more than the lowest (Siauliai, 15.6 years). At this age, males were estimated to spend 13.2 years in good perceived health. This is 4.5 years less than the longest HLE (Oslo, 17.7 years) and 2.4 years more than the shortest (Siauliai, 10.8 years).

Female life expectancy in Bratislava at age 15 was 62.5 years. This was 1.6 years less than the highest in the sample (Bordeaux, 64.1 years), and 1.1 years more than the lowest (Siauliai, 61.4 years). At this age, females were estimated to spend 52.6 years in good perceived health. This is 7.1 years less than the longest HLE (Oslo, 59.7 years) and 1.7 years more than the shortest (Kaunas, 50.9 years).

Female life expectancy in Bratislava at age 60 was 19.7 years. This was 1.2 years less than the highest in the sample (Bordeaux, 20.9 years), and 0.4 years more than the lowest (Siauliai, 19.3 years). At this age, females were estimated to spend 13.3 years in good perceived health. This is 6.0 years less than the longest HLE (Montpellier, 19.3 years) and 1.2 years more than the shortest (Siauliai, 12.1 years).















#### **GGD** Amsterdam





#### Landeszentrum Gesundheit Nordrhein-Westfalen

























#### **Beneficiaries**

The University of Manchester; Municipal Health Service Utrecht; University of Liverpool; The Iuliu Hatieganu University of Medicine & Pharmacy Epidemiology Department; The Norwegian Institute of Public Health; Municipal Health Service Amsterdam; Kaunas University of Medicine; Regional Public Health and Health Promotion Centre (Slovenia); Institute of Health and Work, North Rhine-Westphalia; Slovak Public Health Association; Hacettepe University, Department of Public Health; North West Regional Health Brussels Office: Latvian Public Health Agency; South East European University; National Federation of Regional Health Observatories; Pham Ngoc Thach University of Medicine

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