

## Electronic Supplementary Material

**Title:** Population norms of health-related quality of life in Moscow, Russia: the EQ-5D-5L-based survey

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### Authors

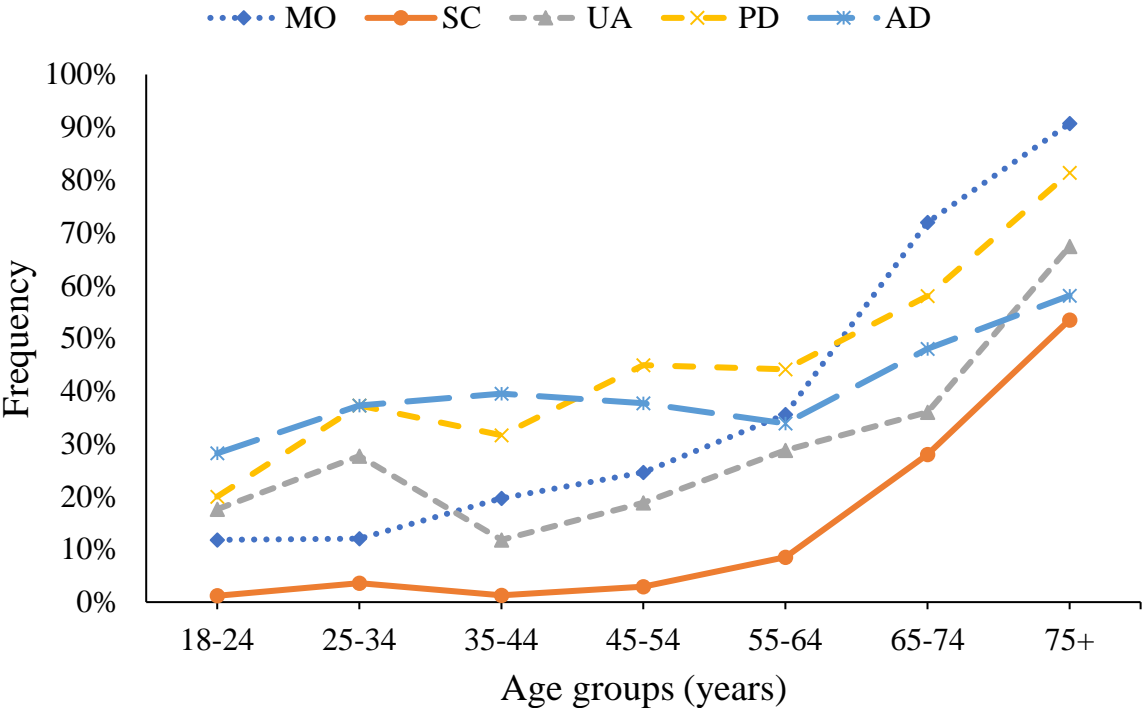
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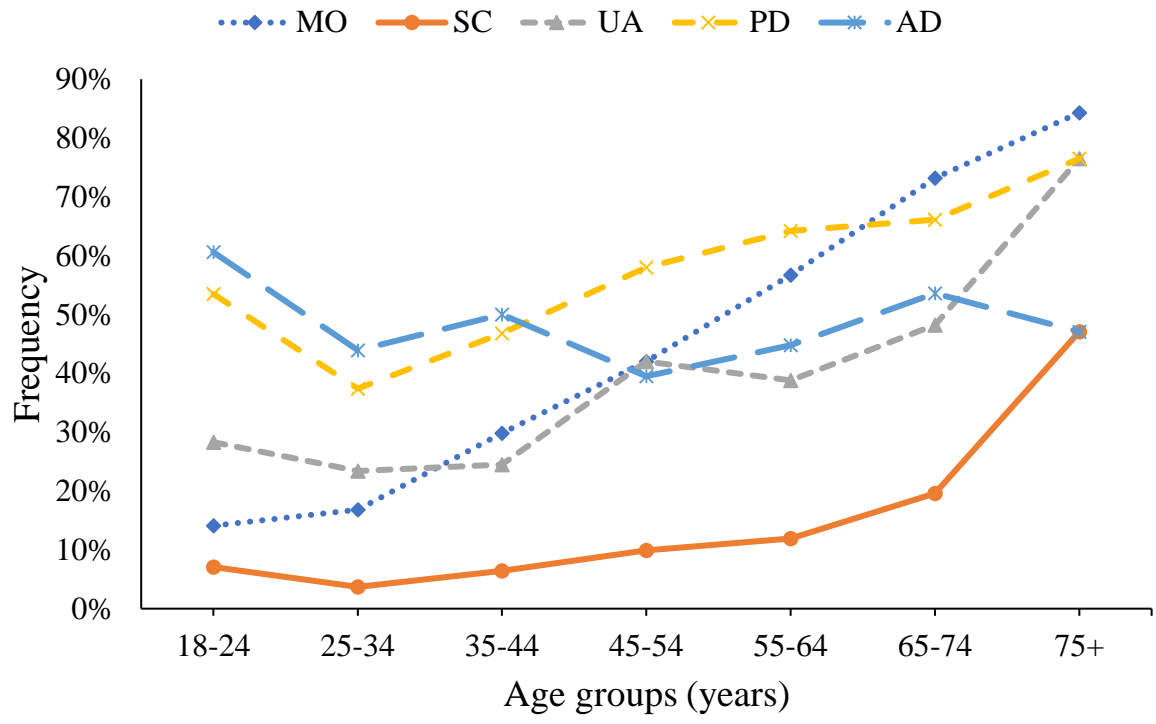
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Supplemental Fig. 1 Prevalence of health limitations (any level of severity) for EQ-5D-5L dimensions according to age group and sex: (A) males, (B) females

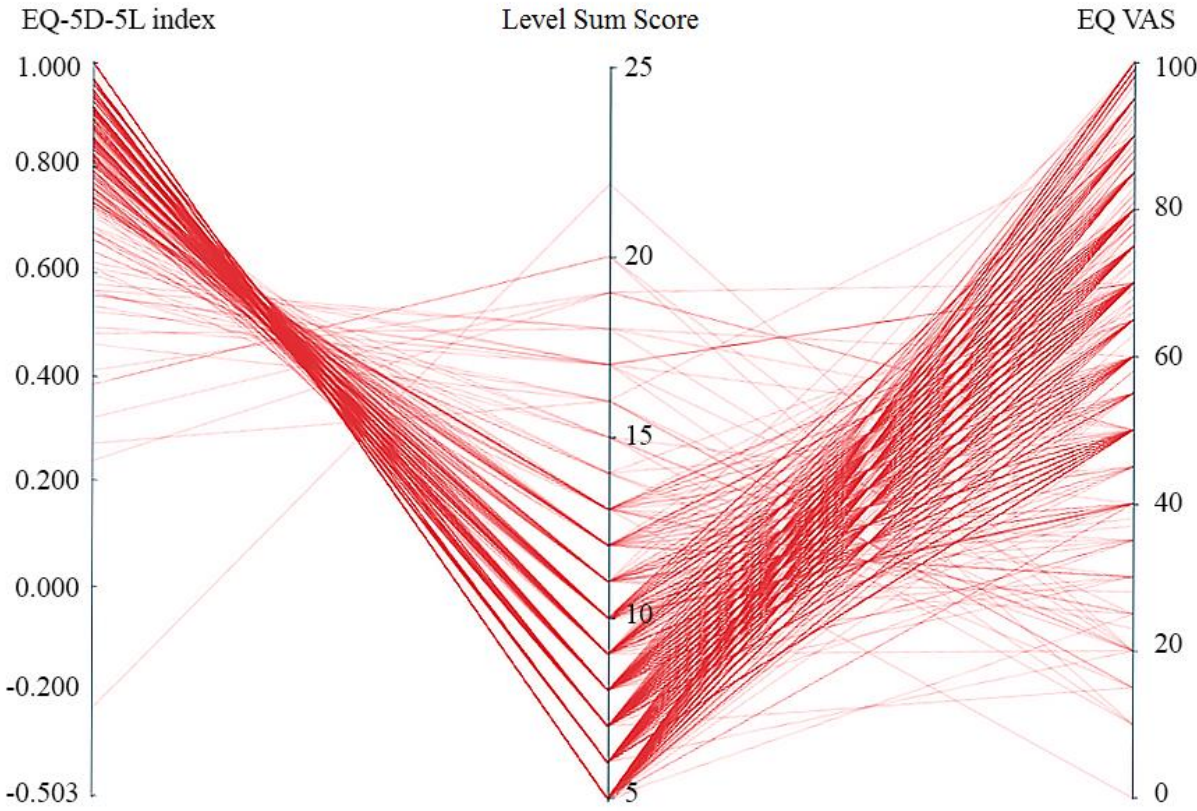
A



B



Supplemental Fig. 2 Distribution of (A) EQ-5D-5L index, (B) EQ VAS scores and (C) Level Sum Score among the Moscow population



Supplemental Table 1 Level Sum Score (LSS) according to age group and gender

Age group (years)	All		Male		Female	
	n	Mean (SD) [95%CI]	n	Mean (SD) [95%CI]	n	Mean (SD) [95%CI]
All ages	1020	7.3 (2.6) [7.2–7.5]	465	7.0 (2.2) [6.7–7.2]	555	7.7 (2.8) [7.4–7.9]
18-24	184	6.5 (1.9) [6.3–6.8]	85	6.0 (1.4) [5.7–6.3]	99	7.0 (2.1) [6.6–7.4]
25-34	190	6.6 (1.9) [6.3–6.9]	83	6.6 (1.8) [6.2–7.0]	107	6.6 (2.0) [6.2–7.0]
35-44	170	6.6 (1.6) [6.3–6.8]	76	6.3 (1.5) [5.9–6.6]	94	6.8 (1.7) [6.5–7.2]
45-54	150	7.1 (2.1) [6.7–7.4]	69	6.6 (2.0) [6.2–7.1]	81	7.4 (2.1) [7.0–7.9]
55-64	126	7.4 (2.1) [7.0–7.8]	59	6.8 (1.6) [6.4–7.2]	67	7.9 (2.3) [7.3–7.6]
65-74	106	8.7 (2.9) [8.2–9.3]	50	8.1 (2.1) [7.5–8.7]	56	9.3 (3.5) [8.3–10.2]
75+	94	10.7 (3.6) [9.9–11.4]	43	10.2 (2.8) [9.3–11.0]	51	11.0 (4.2) [9.9–12.2]

Supplemental Table 2 Any problems (%) within EQ-5D-5L dimensions according to the level of education (secondary or primary, higher) and age group: both sexes

Both sexes	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
Secondary or primary education					
MO	37.2	12.5	29.3	42.3	89.7
SC	11.3	14.2	8.5	9.8	32.4
UA	33.8	23.6	26.8	33.3	64.7
PD	49.9	44.0	45.1	53.7	82.4
AD	42.2	40.3	39.0	37.4	58.8
Higher education					
MO	34.9	15.0	17.0	37.9	75.4
SC	11.7	5.0	2.5	7.2	38.5
UA	30.6	12.5	20.7	32.0	52.3
PD	47.9	52.5	37.0	52.9	63.8
AD	45.4	65.0	44.2	40.5	47.7
Difference (secondary/primary education - higher education)*					
MO	2.3	-2.5	12.3	4.4	14.3
SC	-0.4	9.2	6.0	2.6	-6.1
UA	3.2	11.1	6.1	1.3	12.4
PD	2.0	-8.5	8.1	0.8	18.6
AD	-3.2	-24.7	-5.2	-3.1	11.1

\* Green colour means that respondents with higher education have less problems than respondents with secondary/primary education. Red colour means the opposite - respondents with higher education have more problems than respondents with secondary/primary education.

Supplemental Table 3 Any problems (%) within EQ-5D-5L dimensions according to the level of education (secondary or primary, higher) and age group: males

Males	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
Secondary or primary education					
MO	31.3	11.3	29.5	30.2	88.9
SC	7.3	0.0	2.3	6.3	37.0
UA	26.3	16.9	25.0	23.8	59.3
PD	40.0	18.3	45.5	41.3	85.2
AD	33.2	25.4	31.8	33.3	55.6
Higher education					
MO	32.4	14.3	10.4	29.2	78.5
SC	13.1	7.1	2.6	4.6	41.5
UA	17.0	21.4	18.3	23.1	47.7
PD	42.5	28.6	30.4	47.7	61.5
AD	43.2	42.9	40.9	38.5	52.3
Difference (secondary/primary - higher education)*					
MO	-1.1	-3.0	19.1	1.0	10.4
SC	-5.8	-7.1	-0.3	1.7	-4.5
UA	9.3	-4.5	6.7	0.7	11.6
PD	-2.5	-10.3	15.1	-6.4	23.7
AD	-10.0	-17.5	-9.1	-5.2	3.3

\* Green colour means that respondents with higher education have less problems than respondents with secondary/primary education. Red colour means the opposite - respondents with higher education have more problems than respondents with secondary/primary education.

Supplemental Table 4 Any problems (%) within EQ-5D-5L dimensions according to the level of education (secondary or primary, higher) and age group: females

Females	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
Secondary or primary education					
MO	42.9	13.7	28.9	55.0	90.2
SC	15.1	8.2	15.8	13.3	29.3
UA	41.0	30.1	28.9	43.3	68.3
PD	59.4	50.7	44.7	66.6	80.5
AD	50.9	54.8	47.4	41.7	61.0
Higher education					
MO	36.8	15.4	21.7	44.3	72.3
SC	10.6	3.8	2.5	9.1	35.4
UA	33.3	23.1	2.4	38.6	56.9
PD	52.1	65.4	41.6	43.2	66.2
AD	47.1	76.9	46.6	42.0	43.1
Difference (secondary/primary - higher education)					
MO	6.1	-1.7	7.2	10.7	17.9
SC	4.5	4.4	13.3	4.2	-6.1
UA	7.7	7.0	26.5	4.7	11.4
PD	7.3	-14.7	3.1	23.4	14.3
AD	3.8	-22.1	0.8	-0.3	17.9

\* Green colour means that respondents with higher education have less problems than respondents with secondary/primary education. Red colour means the opposite - respondents with higher education have more problems than respondents with secondary/primary education.



Supplemental Table 5 EQ VAS according to the level of education (secondary or primary, higher), age group and sex

	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
<b>Both sexes</b>					
Secondary or primary education	73.2 (19.2)	78.4 (15.8)	76.3 (16.6)	74.0 (18.9)	56.8 (20.7)
Higher education	74.6 (15.9)	79.8 (10.7)	79.7 (12.7)	75.5 (13.5)	61.4 (18.4)
Difference (higher – secondary/primary)*	1.4	1.4	3.4	1.5	4.6
<b>Males</b>					
Secondary or primary education	76.2 (18.5)	83.1 (12.4)	76.3 (16.7)	76.8 (18.7)	56.3 (21.3)
Higher education	74.6 (16.5)	83.9 (11.0)	80.9 (11.6)	74.8 (13.5)	61.0 (19.3)
Difference (higher – secondary/primary)*	-1.6	0.8	4.6	-2.0	4.7
<b>Females</b>					
Secondary or primary education	70.3 (19.4)	73.9 (17.5)	76.3 (16.8)	71.1 (18.8)	57.1 (20.6)
Higher education	74.7 (15.5)	77.6 (10.1)	78.8 (13.4)	76.0 (13.6)	61.8 (17.7)
Difference (higher – secondary/primary)*	4.4	3.7	2.5	4.9	4.7

\* Green colour means that respondents with higher education have higher EQ VAS values than respondents with secondary/primary education.

Red colour means the opposite - respondents with higher education have lower EQ VAS values than respondents with secondary/primary education.

Supplemental Table 6 EQ-5D-5L index according to the level of education (secondary or primary, higher), age group and sex

	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
<b>Both sexes</b>					
Secondary or primary education	0.901 (0.121)	0.936 (0.096)	0.925 (0.080)	0.907 (0.097)	0.784 (0.171)
Higher education	0.911 (0.094)	0.925 (0.061)	0.942 (0.065)	0.916 (0.068)	0.837 (0.135)
Difference (higher – secondary/primary)*	0.010	-0.011	0.017	0.009	0.053
<b>Males</b>					
Secondary or primary education	0.927 (0.085)	0.963 (0.057)	0.932 (0.072)	0.930 (0.077)	0.821 (0.102)
Higher education	0.921 (0.082)	0.949 (0.049)	0.949 (0.063)	0.933 (0.063)	0.852 (0.094)
Difference (higher – secondary/primary)*	-0.006	-0.014	0.017	0.003	0.031
<b>Females</b>					
Secondary or primary education	0.875 (0.143)	0.911 (0.118)	0.916 (0.088)	0.883 (0.109)	0.760 (0.202)
Higher education	0.904 (0.103)	0.913 (0.064)	0.937 (0.065)	0.903 (0.069)	0.822 (0.165)
Difference (higher – secondary/primary)*	0.029	0.002	0.021	0.020	0.062

\* Green colour means that respondents with higher education have higher EQ-5D-5L index values than respondents with secondary/primary education.

Red colour means the opposite - respondents with higher education have lower EQ-5D-5L index values than respondents with secondary/primary education.

Supplemental Table 7 Any problems (%) within EQ-5D-5L dimensions according to smoking status (current smoker, no smoking) and age group

	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
<b>Current smoker</b>					
MO	30.1	18.5	21.9	29.1	86.2
SC	10.1	1.9	5.3	12.7	37.9
UA	31.9	37.0	26.3	31.6	44.8
PD	42.0	35.2	36.0	43.0	75.9
AD	41.3	50.0	38.6	34.2	55.2
<b>No smoking</b>					
MO	38.0	10.9	18.9	44.2	79.6
SC	12.1	15.5	3.3	6.6	36.5
UA	32.1	18.0	20.1	33.0	59.3
PD	51.5	39.8	40.2	57.4	70.1
AD	45.4	44.5	45.1	41.1	51.5
<b>Difference (current smoker - no smoking)*</b>					
MO	-7.9	7.6	3.0	-15.1	6.6
SC	-2.0	-13.6	2.0	6.1	1.4
UA	-0.2	19.0	6.2	-1.4	-14.5
PD	-9.5	-4.6	-4.2	-14.4	5.8
AD	-4.1	5.5	-6.5	-6.9	3.7

\* Green colour means that non-smoking respondents have less problems than current smokers.

Red colour means the opposite - non-smoking respondents have more problems than current smokers.

Supplemental Table 8 EQ VAS and EQ-5D-5L index according to smoking status (current smoker, no smoking) and age group

	All ages	Age group			
		18-24 years	25-44 years	45-64 years	65+ years
EQ VAS, mean (SD)					
Current smoker	76.2 (18.1)	78.6 (16.5)	79.2 (15.5)	78.4 (15.2)	53.6 (22.0)
Non-smoker	73.2 (17.0)	78.7 (14.2)	78.8 (12.9)	73.4 (16.2)	60.8 (18.8)
Difference (non-smoker - current smoker)*	-3.0	0.1	-0.4	-5.0	7.2
EQ-5D-5L index, mean (SD)					
Current smoker	0.914 (0.101)	0.911 (0.127)	0.934 (0.077)	0.919 (0.092)	0.828 (0.113)
Non-smoker	0.904 (0.108)	0.943 (0.067)	0.940 (0.064)	0.909 (0.078)	0.815 (0.156)
Difference (non-smoker - current smoker)*	-0.010	0.032	0.006	-0.010	-0.013

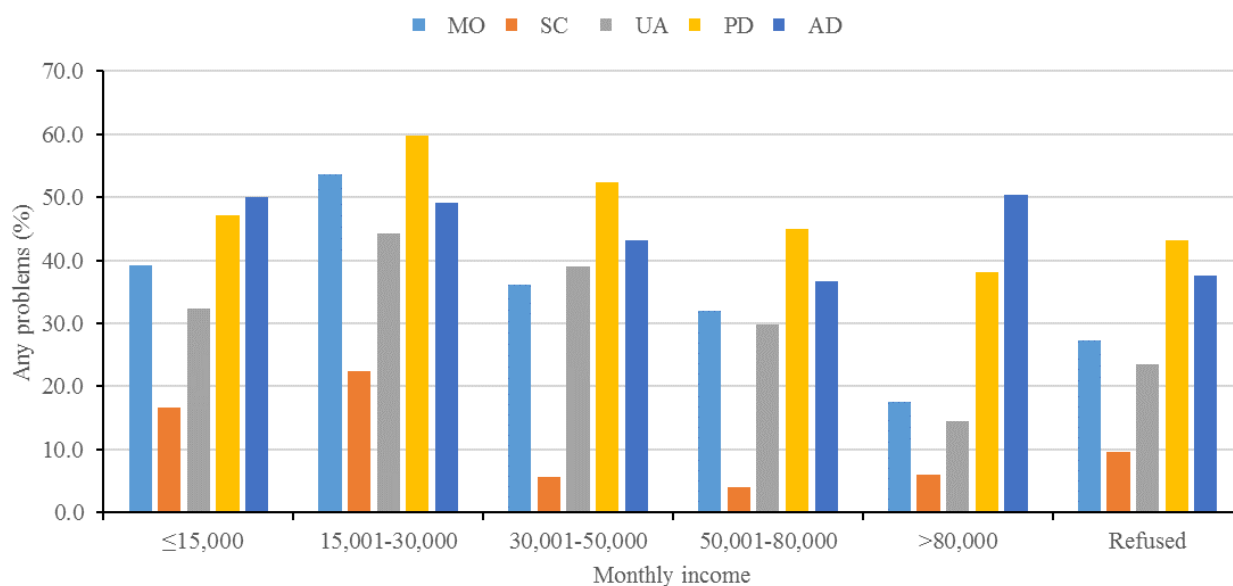
\* Green colour means that non-smokers have higher EQ VAS / EQ-5D-5L index values than current smokers.

Red colour means the opposite - non-smokers have lower EQ VAS / EQ-5D-5L index values than current smokers.

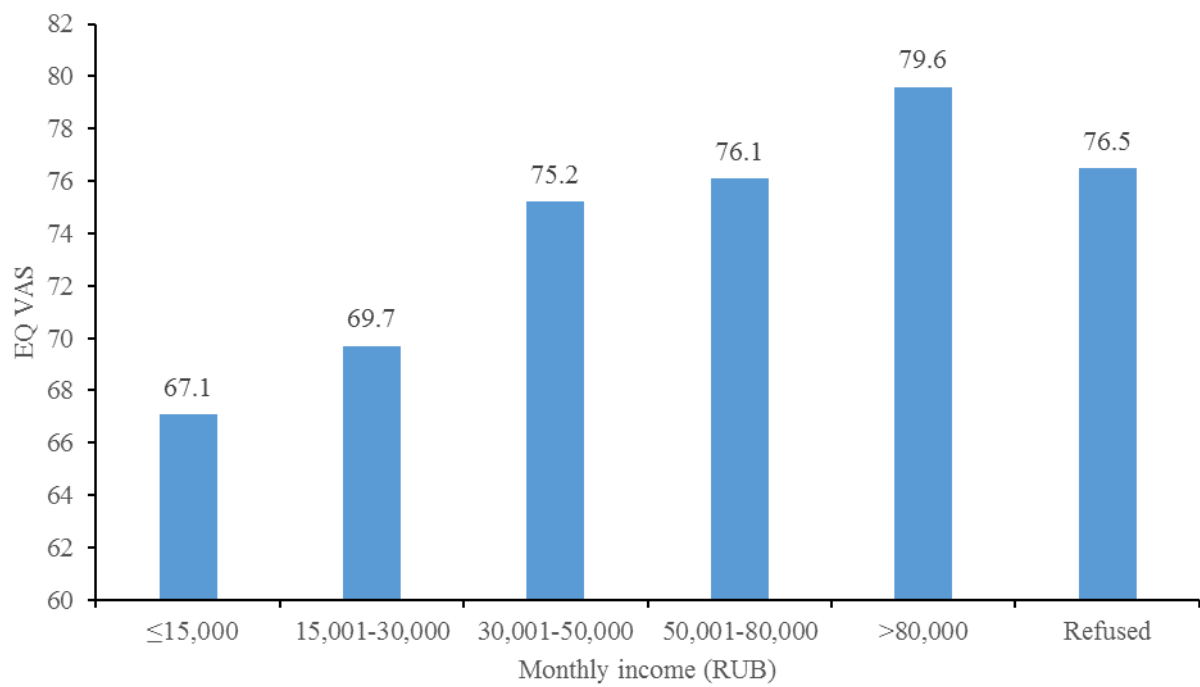
Supplemental Table 9 Any problems (%) within EQ-5D-5L dimensions according to monthly income group

EQ-5D-5L dimension	Monthly income level (RUB)					Refused to answer
	≤15,000	15,001-30,000	30,001-50,000	50,001-80,000	>80,000	
MO	39.2	53.7	36.2	32.0	17.6	27.3
SC	16.7	22.4	5.7	4.1	6.1	9.7
UA	32.4	44.3	39.1	29.9	14.5	23.6
PD	47.1	59.8	52.3	44.9	38.2	43.1
AD	50.0	49.2	43.1	36.7	50.4	37.5

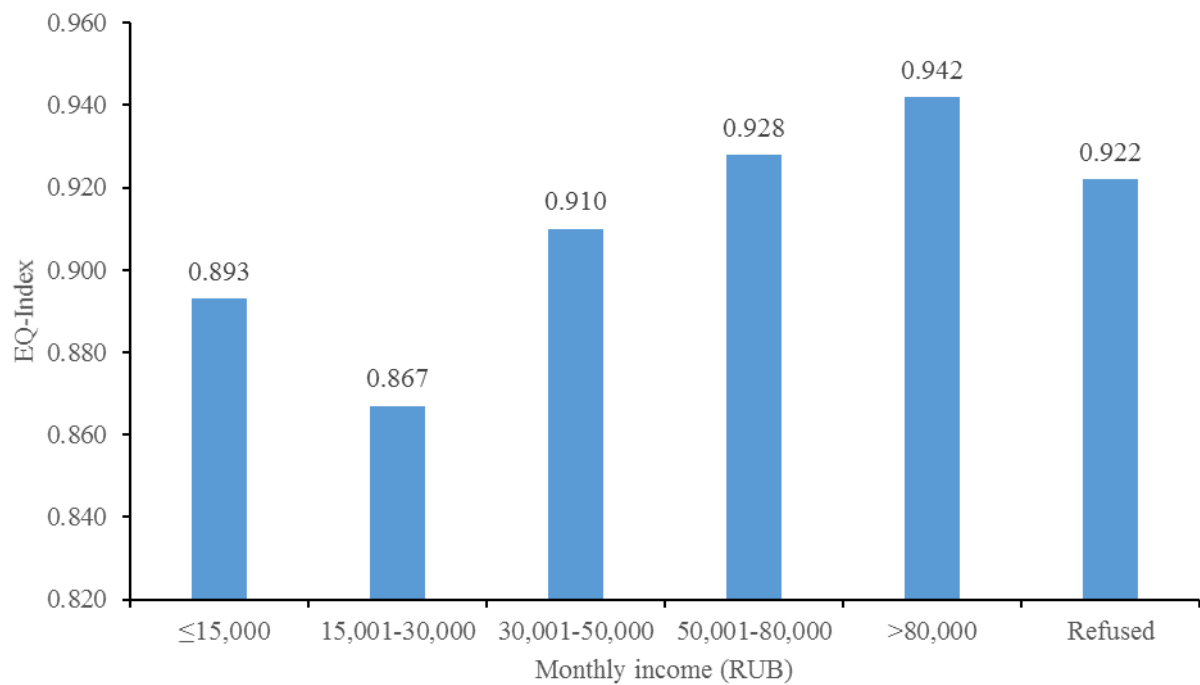
Supplemental Fig. 3 Any problems (%) within EQ-5D-5L dimensions according to monthly income group



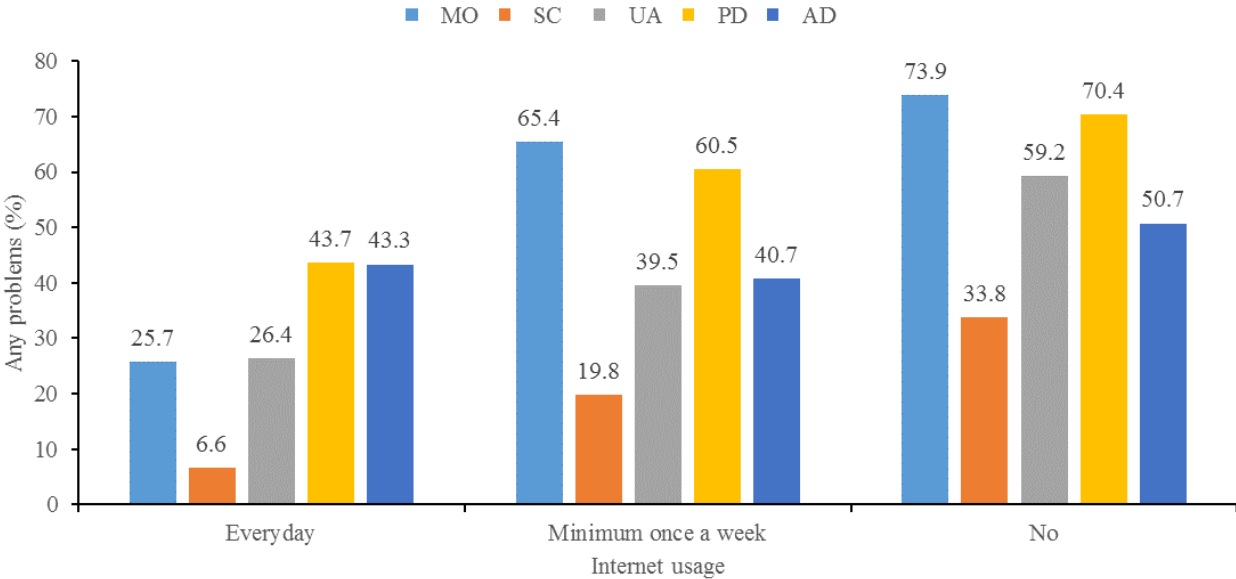
Supplemental Fig. 4 EQ VAS according to monthly income group



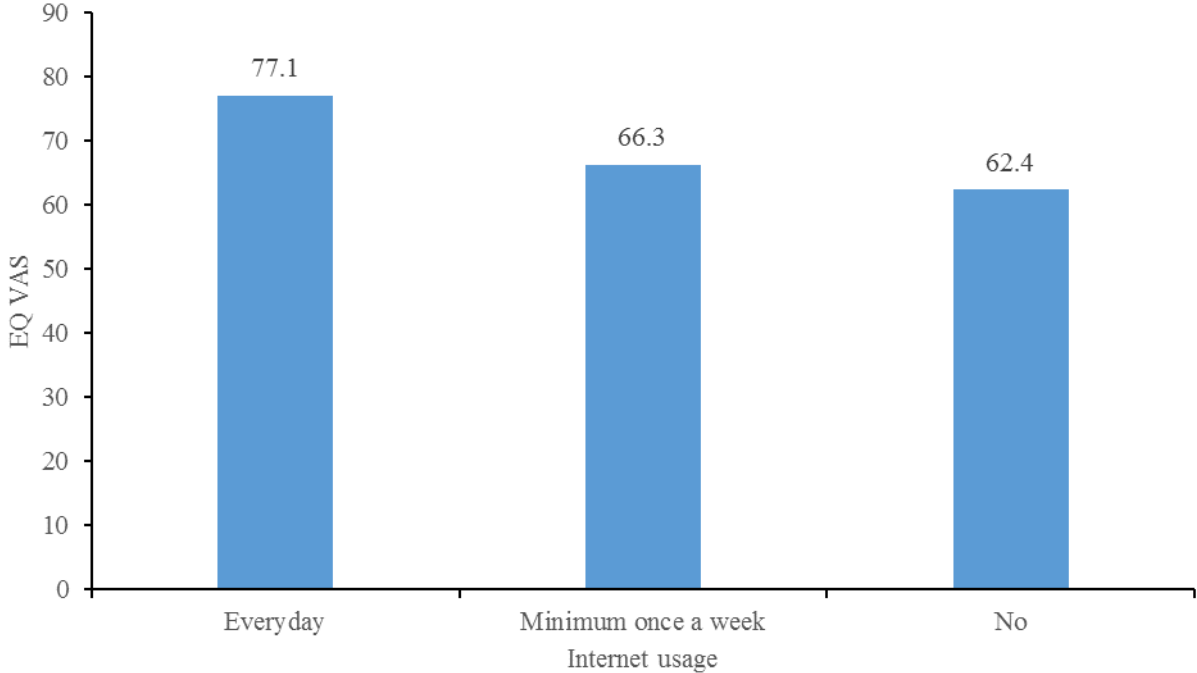
Supplemental Fig. 5 EQ-5D-5L index according to monthly income group



Supplemental Fig. 6 Any problems (%) within EQ-5D-5L dimensions according to Internet usage



Supplemental Fig. 7 EQ VAS according to Internet usage



Supplemental Fig. 8 EQ-5D-5L index according to Internet usage

