

BRIEF REPORT

Smoking Cessation and Desire to Stop Smoking in Nine Countries of the Former Soviet Union

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ABSTRACT

Introduction: Smoking rates and corresponding levels of premature mortality from smoking-related diseases in the former Soviet Union (fSU) are among the highest in the world. To reduce this health burden, greater focus on smoking cessation is needed, but little is currently known about rates and characteristics of cessation in the fSU.

Methods: Nationally representative household survey data from a cross-sectional study of 18,000 respondents in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, and Ukraine were analyzed to describe patterns of desire and action taken to stop smoking, quit ratios (former ever-smokers as a percent of ever-smokers, without a specified recall period), and help used to stop smoking. Multivariate logistic regression was used to analyze characteristics associated with smoking cessation and desire to stop smoking.

Results: Quit ratios varied from 10.5% in Azerbaijan to 37.6% in Belarus. About 67.2% of respondents expressed a desire to quit, and 64.9% had taken action and tried to stop. The use of help to quit was extremely low (12.6%). Characteristics associated with cessation included being female, over 60, with higher education, poorer health, lower alcohol dependency, higher knowledge of tobacco's health effects, and support for tobacco control. Characteristics associated with desire to stop smoking among current smokers included younger age, poorer health, greater knowledge of tobacco's health effects, and support for tobacco control.

Conclusions: Quit ratios are low in the fSU but there is widespread desire to stop smoking. Stronger tobacco control and cessation support are urgently required to reduce smoking prevalence and associated premature mortality.

INTRODUCTION

Smoking rates in countries of the former Soviet Union (fSU) are among the highest in the world, reflected in very high premature mortality from smoking-related causes (Andreev, Nolte, Shkolnikov, Varavikova, & McKee, 2003; Ezzati & Lopez, 2003; World Health Organization, 2011). Although male smoking was widespread in the Soviet era (Cockerham, Snead, & Sewaal, 2002), the tobacco market was transformed following the Soviet Union's collapse by the entry of transnational companies (Gilmore & McKee, 2004b). Female smoking increased substantially (from 7% to 15% between 1992 and 2003 in Russia), while the age of smoking initiation fell, as both women and young people were specifically targeted by the tobacco industry (Gilmore & McKee, 2004a). Smoking prevalence has

now stabilized but remains extremely high among men (49% daily smoking; Roberts, Gilmore, et al., 2012).

There is an urgent need to reduce smoking rates in the fSU, which will require an emphasis on both smoking cessation and initiation. Apart from Russia and Ukraine, however (Andreeva & Krasovsky, 2011; Giovino et al., 2012; Schnoll, Engstrom, Subramanian, Demidov, & Wielt, 2006; Schnoll, Subramanian, Martinez, & Engstrom, 2011; Squier, Hesli, Lowe, Ponamorenko, & Medvedovskaya, 2008), little is known of smoking cessation rates and desire to stop smoking in the fSU. The aim of this study was twofold: (a) to determine the extent of smoking cessation, and the desire, action taken, and help used to stop smoking in nine fSU countries; (b) to examine which factors are associated with the desire to stop smoking and smoking cessation in these countries.

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METHODS

The data for this study were derived from household surveys in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, and Ukraine in 2010 for the Health in Times of Transition (HITT) study (www.hitt-cis.net). These surveys have been described elsewhere (Balabanova, Roberts, Richardson, Haerperfer, & McKee, 2012), but in brief they used nationally representative cross-sectional design and multi-stage random sampling. Primary sampling units were selected from a sampling frame of a complete list of local administrative units. Households were selected using the random walk method, and one person (aged 18+) was randomly chosen for a face-to-face interview using a standardized questionnaire. The draft questionnaire was developed in English and then translated into Russian and local languages (except in Russia and Belarus where only Russian was needed), using standard forward and back translation procedures. Respondents were then given the choice of answering in Russian or a local language (except in Russia and Belarus). Individual exclusion criteria included being institutionalized, hospitalized, or homeless, being intoxicated at the time of the survey, and being in the military or in prison. Country response rates varied from 47% to 83%. The research was approved by the ethics committee of the London School of Hygiene and Tropical Medicine.

Descriptive statistics determined the prevalence of daily smoking, desire to stop, and action taken to stop among daily smokers, quit ratios, and help used by former smokers when stopping. Daily smokers were those who currently smoke at least one cigarette (or one papirossi [Russian cigarette], pipe, cigar, etc.) per day. Daily smokers were asked “would you like to give up smoking” and “how many times have you tried to give up smoking” to ascertain their desire to stop smoking and action taken to stop. Former smokers were identified by asking nonsmokers whether they had ever smoked, but then stopped, or had never smoked, and there was no specific recall period. Quit ratios (former ever-smokers as percent of ever-smokers) were then calculated, as used elsewhere (Giovino et al., 2012; World Health Organization, 2002). To calculate how long ago they had stopped, former smokers were asked their age when they quit. Former smokers were asked whether they had used any of the following types of help when they quit most recently: nicotine chewing gum, nicotine patches, hypnosis, acupuncture, or “other.”

Determinants of smoking cessation were examined using logistic regression. Two models were developed: the first modelled the determinants of an outcome of being a former smoker among ever-smokers and the second modelled the determinants of an outcome of wanting to stop among daily smokers. Key independent variables of health, health behavior (alcohol dependency), knowledge of tobacco’s health effects, and support for tobacco control measures were selected, and their association with the two outcomes was examined using multivariate analysis, adjusting for country of residence, gender, age, self-rated household economic situation, and education. The health variable was self-rated health status on a 5-point scale. Alcohol dependency was derived from the CAGE questionnaire: responses to four standard questions were scored 0 or 1, and summed to produce a score from 0 to 4, with a score of 2 or higher indicating alcohol dependency (Buchsbaum, Buchanan, Centor, Schnoll, & Lawton, 1991).

Knowledge of health effects was a score aggregated from whether respondents thought smoking was a cause (1 = yes;

0 = no) of seven smoking-related diseases: cardiovascular disease, stroke, lung cancer, bronchitis, tooth decay, infertility, and impotence. This produced a score range of 0–7, which was categorized into three groups as follows: low (0–2), medium (3–4), and high (5–7). Support for tobacco control activities was derived from respondents’ support (1 = yes; 0 = no) for four specific measures: increased tobacco prices, larger text and pictorial warnings on cigarette packages, and smoking bans. These scores were aggregated to produce a scoring range of 0–4, which was again categorized into three groups of low (0–1), medium (2), and high (3–4). These measures have not been formally validated, but have been used previously and described in detail (Danishevski, Gilmore, & McKee, 2008; Roberts, Stickley, et al., 2012). The entire study sample was combined to ensure greater statistical power, and data were adjusted for the sampling design effect.

RESULTS

Of the 18,000 respondents, 56% were women and 44% men and the mean age was 43.3 years. Further details are provided elsewhere (Roberts, Gilmore, et al., 2012).

Table 1 lists descriptive statistics. Of the total study sample, 4,647 (25.9%) were daily smokers and 1,789 (13.4%) were former smokers. Among daily smokers, desire to quit was high in every country, ranging from 50.8% in Armenia to 82.6% in Georgia. However, action taken was generally lower; 55% of smokers in Kazakhstan had made a quit attempt compared with 79.7% in Moldova.

As a proportion of ever-smokers, 27.8% had quit in the region as a whole, and this proportion varied from 10.5% in Azerbaijan to 37.6% in Belarus (Table 1). Of former smokers, those respondents who had successfully stopped smoking, 8% had stopped in the past year and 45% had stopped smoking 5 years ago or less.

Across the region, just 12.6% of former smokers had used help to stop smoking, but there were substantial differences between countries: 19.1% of former smokers in Belarus had used help compared with 3.7% in Armenia (Table 1). Nicotine gum was the most commonly used (0% in Georgia to 4.4% in Azerbaijan), but most respondents listed “other” (0.9% in Armenia to 15.4% in Russia).

Table 2 presents the multivariate analysis results. Characteristics associated with being a former smoker among ever-smokers included being female, older age (which may reflect selective survival), higher education, not harmful drinking, and increased knowledge of tobacco’s health effects and support for tobacco control. Compared with Russia (taken as the index as the most-developed tobacco market), ever-smokers were less likely to have quit in Armenia and Azerbaijan, and more likely in Belarus, Georgia, Moldova, and Ukraine. Characteristics associated with desire to stop smoking among daily smokers included younger age, poorer health, higher knowledge of tobacco’s health effects, and support for tobacco control. Compared with Russia, desire to quit was higher in Azerbaijan, Georgia, Kyrgyzstan, Moldova, and Ukraine.

DISCUSSION

To the best of our knowledge, this is the first study from the fSU to provide directly comparable data from a range of countries on smoking cessation. It reveals substantial variation in

Table 1. Prevalence of Daily Smoking, Desire to Stop Smoking, Quit Ratios, and Help Used by Former Smokers

	All Countries,		Armenia,		Azerbaijan,		Belarus, <i>N</i> (%)		Georgia, <i>N</i> (%)		Kazakhstan,		Kyrgyzstan,		Moldova,		Russia, <i>N</i> (%)		Ukraine, <i>N</i> (%)	
	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]	<i>N</i> (%)	[95% CI]
Daily Smokers ^a	4,647 (25.9)	[25.3–26.5]	504 (28.1)	[26.0–30.2]	391 (21.7)	[19.8–23.6]	470 (26.1)	[24.1–28.1]	507 (23.1)	[21.3–24.9]	525 (29.2)	[27.1–31.3]	413 (23.0)	[21.0–25.0]	358 (19.9)	[18.1–21.8]	932 (31.4)	[29.7–33.1]	547 (27.5)	[25.5–29.4]
Daily smokers who express desire to quit	2,966 (67.2)	[65.8–68.6]	249 (50.8)	[46.4–55.3]	274 (73.5)	[69.0–78.0]	290 (63.7)	[59.3–68.2]	403 (82.6)	[79.2–86.0]	308 (60.6)	[56.4–64.9]	315 (78.4)	[74.3–82.4]	243 (74.5)	[69.8–79.3]	529 (60.9)	[57.6–64.1]	355 (70.3)	[66.3–74.3]
Daily smokers who have tried to quit one or more times	2,893 (64.9)	[63.5–66.3]	282 (56.7)	[52.4–61.1]	196 (58.3)	[53.0–63.6]	316 (68.7)	[64.4–72.9]	353 (72.0)	[68.1–76.0]	284 (55.0)	[50.7–59.3]	275 (67.4)	[62.8–72.0]	270 (79.7)	[75.3–84.0]	553 (62.3)	[59.2–65.5]	364 (69.6)	[65.6–73.6]
Former smokers' quit ratio ^b	1,789 (27.8)	[26.7–28.9]	107 (17.5)	[14.5–20.5]	46 (10.5)	[7.6–13.4]	283 (37.6)	[34.1–41.1]	225 (30.7)	[27.4–34.1]	167 (24.1)	[20.9–27.3]	120 (22.5)	[19.0–26.1]	191 (34.8)	[30.8–38.8]	370 (28.4)	[26.0–30.9]	280 (33.9)	[30.6–37.1]
Used help to stop smoking ^c	225 (12.6)	[11.0–14.1]	4 (3.7)	[0.1–7.4]	4 (8.7)	[0.2–17.2]	54 (19.1)	[14.5–23.7]	10 (4.4)	[1.7–7.2]	17 (10.2)	[5.5–14.8]	13 (10.8)	[5.2–16.5]	25 (13.1)	[8.3–17.9]	63 (17.0)	[13.2–20.9]	35 (12.5)	[8.6–16.5]

Notes. CI = confidence intervals.

Percentage of daily smokers expressing desire to quit or having tried to quit may not be proportion of all daily smokers due to some nonresponse.

^aAs a proportion of the total sample population.

^bNumber of former smokers and quit ratio (former ever-smokers as a percent of those who have ever smoked).

^cAs a proportion of former smokers.

Table 2. Characteristics Associated With Being a Former Smoker and Desire to Stop Smoking

	Former smoker ^a				Desire to stop smoking			
	N (%) ^b	OR	95% CI	p Value	N (%) ^c	OR	95% CI	p Value
Russia	370 (28.4)	1.00			529 (60.9)	1.00		
Armenia	107 (17.5)	0.72	[0.53–0.97]	.03	249 (50.8)	0.83	[0.59–1.16]	.28
Azerbaijan	46 (10.5)	0.30	[0.18–0.49]	<.01	274 (73.5)	2.25	[1.48–3.41]	<.01
Belarus	283 (37.6)	1.75	[1.40–2.18]	<.01	290 (63.7)	1.22	[0.92–1.61]	.17
Georgia	225 (30.7)	1.36	[1.05–1.75]	.02	403 (82.6)	3.38	[2.46–4.65]	<.01
Kazakhstan	167 (24.1)	1.01	[0.76–1.34]	.94	308 (60.6)	1.05	[0.79–1.41]	.73
Kyrgyzstan	120 (22.5)	0.82	[0.60–1.12]	.20	315 (78.4)	2.26	[1.62–3.15]	<.01
Moldova	191 (34.8)	1.33	[1.04–1.71]	.02	243 (74.5)	1.93	[1.34–2.78]	<.01
Ukraine	280 (33.9)	1.41	[1.12–1.77]	<.01	355 (70.3)	1.56	[1.16–2.09]	<.01
Gender								
Female	515 (37.3)	1.00			572 (69.9)	1.00		
Male	1,274 (25.2)	0.61	[0.52–0.73]	<.01	2,394 (66.5)	0.98	[0.79–1.20]	.82
Age								
18–29	480 (25.5)	1.00			912 (68.5)	1.00		
30–39	296 (21.3)	0.77	[0.64–0.93]	.01	722 (69.2)	0.92	[0.76–1.11]	.39
40–49	303 (23.2)	0.95	[0.77–1.18]	.66	659 (68.6)	0.83	[0.68–1.03]	.09
50–59	279 (28.9)	1.22	[0.97–1.54]	.09	433 (66.8)	0.71	[0.55–0.90]	0.01
60+	431 (48.5)	2.99	[2.36–3.79]	<.01	240 (55.7)	0.51	[0.38–0.67]	<.01
Education								
Incomplete secondary	188 (27.6)	1.00			306 (66.4)	1.00		
Completed secondary	1,105 (25.8)	1.06	[0.84–1.33]	.62	2,009 (66.6)	1.00	[0.78–1.28]	.97
Higher education	491 (33.5)	1.43	[1.11–1.85]	.01	646 (69.4)	1.03	[0.77–1.39]	.83
Economic situation								
Very good	25 (29.8)	1.00			32 (56.1)	1.00		
Good	371 (28.4)	1.04	[0.56–1.94]	.91	579 (64.0)	1.53	[0.80–2.92]	.20
Average	1,027 (27.7)	1.04	[0.56–1.92]	.90	1,720 (67.8)	1.77	[0.93–3.39]	.08
Bad	285 (26.6)	0.84	[0.44–1.58]	.58	518 (69.6)	1.78	[0.92–3.46]	.09
Very bad	47 (25.1)	0.62	[0.29–1.34]	.22	94 (71.8)	1.93	[0.88–4.23]	.10
Health								
Very good	93 (21.6)	1.00			195 (60.4)	1.00		
Good	567 (24.6)	1.14	[0.85–1.54]	.39	1,060 (64.5)	1.27	[0.95–1.70]	.10
Average	781 (28.1)	1.03	[0.76–1.40]	.85	1,337 (70.2)	1.72	[1.26–2.33]	<.01
Bad	288 (37.7)	1.41	[1.00–1.99]	.05	307 (67.6)	1.55	[1.06–2.26]	0.02
Very bad	51 (39.2)	1.49	[0.83–2.67]	.18	54 (72.0)	1.67	[0.87–3.23]	.13
Alcohol dependency								
Cage 0	1,028 (31.3)	1.00			1,442 (67.4)	1.00		
Cage 1	263 (26.0)	0.78	[0.66–0.93]	.01	464 (63.9)	0.83	[0.69–1.01]	.06
Cage 2	187 (23.7)	0.70	[0.57–0.86]	<.01	399 (69.3)	1.08	[0.87–1.33]	.50
Cage 3	125 (21.2)	0.62	[0.49–0.79]	<.01	320 (71.8)	1.24	[0.97–1.58]	.09
Cage 4	84 (22.0)	0.72	[0.53–0.99]	.04	191 (69.0)	1.02	[0.74–1.41]	.90
Tobacco knowledge								
Low	528 (21.8)	1.00			1,128 (63.0)	1.00		
Average	780 (29.2)	1.34	[1.15–1.56]	<.01	1,211 (67.4)	1.32	[1.13–1.55]	<.01
High	481 (35.9)	1.56	[1.29–1.87]	<.01	627 (75.7)	1.93	[1.53–2.44]	<.01
Tobacco control support								
Low	886 (20.6)	1.00			2,093 (64.2)	1.00		
Average	392 (37.9)	2.47	[2.09–2.93]	<.01	471 (76.1)	1.69	[1.36–2.10]	<.01
High	263 (51.5)	4.42	[3.52–5.55]	<.01	197 (82.1)	2.24	[1.53–3.29]	<.01

Notes. OR = odds ratio; CI = confidence interval. Results in bold are statistically significant at $p < .05$.

^aFormer smokers are those who have ever-smoked and then stopped.

^bAs proportion of ever-smokers.

^cAs proportion of daily smokers.

quit ratios and use of cessation support between countries of the fSU. The quit ratio and use of help was highest in Belarus, whereas Armenia and Azerbaijan had very low quit ratios and help was rarely used. Although not directly comparable with daily smoker quit ratios, the fSU regional average quit ratio

of 27.8% is considerably lower than that of many countries in Western Europe, North and South America, and parts of Africa (Giovino et al., 2012; World Health Organization, 2002). Although desire to stop smoking across the region is higher than in other countries (World Health Organization, 2011), the

proportion of respondents that had attempted to quit was lower than elsewhere (World Health Organization, 2012).

The findings suggest there is inadequate encouragement for smoking cessation in much of the fSU. Although the role of smoking cessation support is contested (Chapman & Wakefield, 2012), it is notable that there were higher quit ratios in those countries where more help was used. Additionally, in Belarus, where nicotine replacement therapy and at least one cessation service are included in the health benefit package (World Health Organization, 2011), the quit ratio and use of cessation services were highest, and in Azerbaijan, where smoking cessation services are not available (World Health Organization, 2011), the quit ratio was lowest, and use of services was very low. The pattern does not always hold; in Kazakhstan, cessation services are available and funded to the same extent as in Belarus, but its quit ratio and use of services were one of the lowest. The remainder of the countries in our study fall somewhere in between, with cessation services available, but not cost covered. Nevertheless, cessation services can double smokers' chances of stopping permanently (Frieden & Bloomberg, 2007), at least among those who avail of them, and research from the region reveals a lack of training for, and involvement of, physicians in smoking cessation, and misinformed beliefs about smoking among physicians (Schnoll et al., 2006; Squier et al., 2008). More information is needed on the quality, affordability, and accessibility of cessation services in the region to fully understand why their utilization is so low.

Although alcohol dependency is not associated with a desire to quit, it is negatively associated with smoking cessation, supporting previous research on the clustering of risk factors (Jackson, Henderson, Frank, & Haw, 2012) and the suggestion that combined programmes aimed at reducing nicotine and alcohol dependency together may prove more effective (Roberts et al., 2013). Given the association between knowledge of tobacco's health effects and smoking cessation, the low levels of knowledge in the region (Roberts, Stickley et al., 2012) also need to be addressed through stronger and more graphic health warnings on packets (Wade, Merrill, & Lindsay, 2011) and public awareness campaigns. Tobacco control policies such as tobacco pricing, advertising, and restricting smoking in public places must also be strengthened (Mir, Roberts, Richardson, Chow, & McKee, 2012; Roberts, Stickley et al., 2012; World Health Organization, 2012).

The study has a number of limitations. Smoking status was not validated by biomarkers, but evidence suggests that self-reported smoking can be accurate, especially when data are collected in respondents' homes (Patrick et al., 1994). We used "former ever-smoker" rather than the more commonly used "former daily smoker." However, compared with the Global Adult Tobacco Survey in Russia and Ukraine (GATS, 2009, 2010), the quit ratios of former daily and occasional smokers combined (26.1% in Russia and 34.4% in Ukraine) are similar to our estimates of former ever-smokers, suggesting good external validity. Additionally, we do not know whether our defined former smokers were regular smokers, or whether their experimentation with smoking was just short-lived. Because there was no specific recall period for being a former smoker, this definition may also have been subject to recall bias. A further limitation concerns the question that addressed help received by former smokers when quitting because it did not cover types of cessation support such as counseling from a health professional. Given the small number of female smokers, we did not

analyze the two sexes separately, but we did undertake separate regression analyses for men only; there were no significant differences between the analyses with men alone and the sample as a whole. Additionally, there are many factors, such as peer and household smoking, which may be predictors of quitting, but were not measured and therefore left out of the regression analysis. Lastly, the cross-sectional design means this study cannot explain the temporal relationship between these factors and smoking cessation.

This study shows that smoking cessation ratios are low in much of the fSU, but there is considerable desire to stop smoking. The introduction of stronger tobacco control measures and provision of greater support for smoking cessation are now urgently needed to reduce the severe health burden caused by smoking in these countries. Further research is also required to better understand accessibility and affordability of cessation services, as well as the factors influencing quit ratios in this region.

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DECLARATION OF INTERESTS

None declared.

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