

SVETLANA POPOVA^{1,2*}, JÜRGEN REHM^{1,3,4}, JAYADEEP PATRA¹ and WITOLD ZATONSKI⁵

¹Centre for Addiction and Mental Health, Toronto, Canada

²Faculty of Social Work University of Toronto, Canada

³Research Institute for Public Health and Addiction, Zurich, Switzerland

⁴Technische Universität Dresden, Germany

⁵Cancer Center and Institute of Oncology, Cancer Epidemiology and Prevention Division, Warsaw, Poland

(Received 9 December 2006; accepted 26 December 2006; advance access publication 6 February 2007)

Abstract — **Aims:** To give an overview of the volume of alcohol consumption, beverage preference, and patterns of drinking among adults (people 15 years and older) in central and eastern Europe (Bulgaria, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, and Slovenia) and to compare it to southern and western Europe, Russia and Ukraine. **Methods:** Secondary data analysis. Consumption and preferred beverage type data for the year 2002 were taken from the WHO Global Status Report on Alcohol and the WHO Global Alcohol Database. **Results:** Average consumption in central and eastern Europe is high with a relatively large proportion of unrecorded consumption ranging from one litre in Czech Republic and Estonia to 10.5 l in Ukraine. The proportion of heavy alcohol consumption (more than 40 g of pure alcohol per day) among men was the lowest in Bulgaria (25.8%) and the highest in Czech Republic (59.4%). Among women, the lowest proportion of heavy alcohol consumption was registered in Estonia (4.0%) and the highest in Hungary (16.0%). Patterns of drinking are detrimental with a high proportion of binge drinking, especially in the group of countries traditionally drinking vodka. In most countries, beer is now the most prevalent alcoholic beverage. **Conclusions:** Other studies suggest that the population drinking levels found in central and eastern Europe are linked with higher levels of detrimental health outcomes. Known effective and cost-effective programs to reduce levels of risky drinking should, therefore, be implemented, which may, in turn, lead to a reduction of alcohol-attributable burden of disease.

INTRODUCTION

Alcohol consumption is an important risk factor for morbidity, mortality and social harm worldwide (Rehm *et al.*, 2004; Rehm *et al.*, 2003a). Europe has the highest level of drinking in the world (Rehm *et al.*, 2003b; WHO, 2004a). A recent report from the Institute of Alcohol Studies estimates that every year alcohol is responsible for 115 000 net deaths in Europeans up to the age of 70 (Anderson and Baumberg, 2006). Alcohol is the leading contributor to death among young adult men with about 25% mortality being due to alcohol. 7.4% of all disability and premature deaths are alcohol-attributable in the European Union (EU). The report also estimated the tangible costs of alcohol to the EU in 2003 to be 125 billion Euro, which is 1.3% of the EU GDP (Anderson and Baumberg, 2006).

On a national level, the severity of the alcohol-related consequences depends on the volume of alcohol consumption over time, the pattern of drinking, and in some regions, such as Russia, on the quality of the alcoholic beverage (BBC News, 2005; Nuzhnyi, 2004; Rehm *et al.*, 2004). Overall, the higher the level of consumption, the higher the morbidity and mortality (e.g. Her and Rehm, 1998; Norström, 2004; Norström and Ramstedt, 2005). High levels of alcohol intake, especially in binges (e.g. more than 60 g of pure alcohol consumption per day; Gmel *et al.*, 2003) increase the risk of liver cirrhosis, injuries, some forms of malignant neoplasms, alcohol use disorders, and cardiovascular disease (Rehm *et al.*,

2003c). However, moderate regular alcohol consumption has a cardioprotective effect as evidenced mainly in studies in populations with low levels of binge drinking (Puddey *et al.*, 1999; Rehm *et al.*, 2003d).

Europe is traditionally known for its high alcohol consumption, and central and eastern Europe (CEE) are no exception. In this report, countries of CEE refers to those countries that recently joined the EU or are candidate countries: Bulgaria, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, and Slovenia. Historically, in these countries, three different cultures of alcohol drinking can be distinguished based on both product tradition, drinking pattern, and social reactions to alcohol (Iontchev, 1998):

- The Mediterranean pattern: In the south of CEE (Bulgaria, Hungary, Romania, Slovenia), as well as in other former Yugoslavian countries, which are not part of our focus, there have traditionally been wine and fruit brandy countries, which are strongly influenced by the Mediterranean, especially the Greek and Italian, way of drinking. The Mediterranean style of drinking is characterized by almost daily drinking of alcohol, often drinking wine with meals, and no acceptance of public drunkenness.
- The Central European pattern: Czech Republic and Slovakia can be distinguished specifically as beer-drinking countries, very similar in style to Germany. Although, in recent decades, spirits consumption (often based on fruits) has increased in Slovakia. The beer drinking culture in the Czech Republic is similar to the Mediterranean style in both the frequency of drinking and the lack of acceptance of public drunkenness.
- The Northern European pattern: Traditional vodka drinking cultures constitute the northern part of CEE (Estonia, Latvia, Lithuania, Poland), and are also found in the

*Author to whom correspondence should be addressed at: Social, Prevention and Health Policy Research Department, Centre for Addiction and Mental Health, 33 Russell Street, Room # T406, Toronto, Ontario, Canada M5S 2S1, Canada. Tel: (416) 535-8501 ext.4558; Fax: (416) 260-4156; E-mail: lana_popova@camh.net

Ukraine and Russia, which were used as eastern comparator countries in this report, and in Nordic countries (Denmark, Finland, Iceland, Norway, and Sweden). The production of distilled spirits began after the invention of the alcohol distillation process and, thus, has a substantially shorter tradition than wine drinking in the Mediterranean. The pattern of drinking in spirits (vodka) countries can be characterized by non-daily drinking, irregular binge drinking episodes (e.g. during weekends and at festivities), and the acceptance of drunkenness in public.

Historically, in the 20th century, the countries also differed with respect to legality of home production of alcohol: in cultures of wine and fruit brandy, home production has been acceptable until recent times, whereas home production was illegal in CEE countries of the Northern European pattern of drinking.

In the time of Communist rule, however, the traditional cultures of drinking were strongly influenced by the Soviet way of vodka drinking, and became more similar to one another in that respect. In terms of time trends, there was an increase in consumption after World War II. In the 1980s, there were periods during which alcohol production was decreased by the state (Gorbachev reform in former Soviet countries, Poland's martial law), with consequent drops in consumption and disease (Leon *et al.*, 1997; Zatonski and Jha, 2000). In times of transition after the collapse of the Soviet bloc, alcohol consumption increased for a period, in part due to the lack of regulation (Zatonski and Jha, 2000). Although European countries in general, and CEE in particular, currently still vary in beverage preferences and drinking patterns, recent studies report a slow homogenization in terms of consumption levels and main beverage preferences (Norström, 2002).

The objective of this report is to provide an overview and comparison of current alcohol consumption, beverage preferences and patterns of drinking among adults (people 15 years and older) in CEE to southern and western Europe, Russia and Ukraine. The year 2002 was chosen as reference year, as this is the most recent year for which relevant information was available for many countries.

METHOD

Thirty-one European countries were combined into six groups and analysed as follows:

1. New EU member states from central and eastern Europe: Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Slovakia, and Slovenia.
2. Candidates for EU Membership from central and eastern Europe: Bulgaria and Romania.
3. Comparison countries to the east: Russia and Ukraine.
4. Mediterranean countries: Cyprus, France, Greece, Italy, Malta, Portugal, and Spain.
5. Nordic countries: Denmark, Finland, Iceland, Norway, and Sweden.
6. Rest of EU: Austria, Belgium, Germany, Ireland, Luxembourg, Netherlands, and United Kingdom (UK).

Exposure data on recorded and unrecorded¹ adult per capita alcohol consumption were taken from the WHO Global Status Report on Alcohol 2004 (WHO, 2004a) for New EU member states and the comparison countries of Russia and Ukraine. For the rest of the countries the data were obtained from large representative surveys conducted in the respective countries which were in closest temporal proximity to the year 2002. Per capita consumption records were obtained from the WHO Global Alcohol Database (GAD) (WHO, 2006). The GAD estimates are based on industry publications on alcohol produced and sold, as well as on data from the Food and Agriculture Organization (FAO) and national sources (Rehm *et al.*, 2003b). Main preferred beverage and its volume of recorded consumption were obtained from the GAD (WHO, 2006). Information on beverage for unrecorded consumption was taken from the Global Status Report on Alcohol (WHO, 2004a) (countries profiles).

Data on abstention and volume of consumption (Table 2) were taken from surveys and adjusted for adult per capita consumption (i.e. average consumption by everyone aged 15 and above) (see Rehm *et al.*, 2004). Specifically, these data were taken from the following sources: Bulgaria (Health Survey of Bulgarian population, 2001 by the National Statistical Institute, data provided by Plamen Dimitrov); Czech Republic (World Health Survey, 2003; for information see Üstün *et al.*, 2003; WHO, 2004a); Estonia (2001 survey reported in Reitan, 2004; World Health Survey, 2003; see Üstün *et al.*, 2003; WHO, 2004a); Hungary (National Health Survey, 2000, by Hungarian Gallup Institute TGO, 2001; World Health Survey, 2003; see Üstün *et al.*, 2003; WHO, 2004a); Lithuania (based on surveys reported by Brunovskis and Ugland, 2002, for abstainer information; McKee *et al.*, 2000; Reitan, 2004, for drinking categories; surveys were conducted in 1999, 1997 and 2001, respectively); Latvia (2001 survey reported by Reitan, 2004); Poland (survey of The States Agency for Prevention of Alcohol Related Problems, 2002, data provided by J. Moskalewicz); Romania (1992 survey reported in Ferrer *et al.*, 1995; Russia (World Health Survey, 2003; see Üstün *et al.*, 2003; WHO, 2004a); Slovakia (World Health Survey, 2003; see Üstün *et al.*, 2003; WHO, 2004a); and Slovenia (Public Opinion Survey, 2002, provided by T. Albreht).

Patterns of drinking were obtained from Rehm *et al.* (2004). A pattern of drinking score, which consists of a four-point scale, reflects *how* people drink instead of *how much* they drink. This scale ranges from 1 (lowest risk) to 4 (highest risk) and combines scores in six dimensions: high quantities of drinking per occasion; frequency of getting drunk; festive drinking being common; drinking in public places being common; drinking with meals being uncommon; low rate of daily drinking (Gmel *et al.*, 2001; Rehm *et al.*, 2001; Rehm *et al.*, 2003b; Rehm *et al.*, 2004). The score measures not the overall rate of hazardous drinking, but the degree of hazard associated with each extra per capita litre of alcohol consumed. This approach provides meaningful comparisons

¹ Unrecorded alcohol consumption is a proportion which is not reflected in official national records or surveys. The sources of unrecorded alcohol include most importantly: 1) home production (especially spirits); 2) alcohol intended for industrial, technical and medical uses, 3) illegal industrial production or import; 4) beverages with alcohol levels below the legal definition (WHO, 2004a).

across countries because drinking patterns have been found to be relatively stable over time (Simpura, 2001). A number of studies showed that this score is an important and reliable indicator for determining alcohol-attributable harm (Rehm *et al.*, 2004).

The data of the countries, when combined and analysed as a group, have been weighted by population of the countries for the year 2002 (United Nations, 2005). The results for countries were compared to the world and WHO Europe A region (own calculations; for methods see Rehm *et al.*, 2006).

RESULTS

As shown in the map of Europe (Fig. 1), the highest overall per capita recorded and unrecorded alcohol consumption (14–25 l of pure alcohol per year) for the year 2002 were found predominantly in the eastern European countries. The highest level of consumption was in Moldova Republic (24.9 l of pure alcohol per adult resident) followed by Lithuania, Latvia, Slovakia, Hungary, Russia, Ukraine, and Romania as well as in some western countries such as Ireland. This contrasts with the lowest levels of alcohol consumption (6–10 l) which was observed in Malta, followed by Nordic countries such as Iceland, Norway, Sweden, and finally by countries that engage in the Mediterranean drinking style, such as Bulgaria and Italy.

Table 1 gives an overview of recorded and unrecorded per capita alcohol consumption and main beverage of recorded and unrecorded consumption in European countries.

There was considerable variation in levels of recorded per capita alcohol consumption among European countries. The highest recorded consumption was also found in eastern Europe (new EU member states): Czech Republic (12.9 l of pure alcohol per capita), followed by Slovakia (12.4 l) and Lithuania (12.3 l). The most preferred beverages of recorded consumption in these countries were beer and spirits. More spirits were consumed in Eastern countries compared to other countries, and binge drinking was more frequent in these countries as well (data not shown).

Recorded consumption was noticeably lower in Bulgaria (6.4 l) and in the Nordic countries (7.9 l). The beverages of choice were wine and spirits in Bulgaria, and beer in the Nordic countries. Recorded consumption in all European countries included in this analysis was higher compared to the world (4.4 l) (own calculations, see Rehm *et al.*, 2006).

In the western European countries, the main types of beverage consumed were wine in Mediterranean countries, and beer in Nordic countries as well as in the rest of the EU.

Unrecorded per capita alcohol consumption showed a similar trend to recorded consumption, with eastern European countries reporting the high consumption of unrecorded alcohol, with the highest level in Ukraine (10.5 l), Latvia (7.0 l), Lithuania and Russia (4.9 l). On average, unrecorded per capita alcohol consumption was higher in CEE countries and their eastern European neighbours as compared to the



Fig. 1. Overall per capita recorded and unrecorded alcohol consumption in litres pure alcohol, Europe, 2002.

Table 1. Alcohol consumption in European region and the world, 2002

Countries	Recorded per capita consumption in litres ^a	Main beverage of recorded consumption	Main beverage of recorded consumption in litres	Main beverage's % of recorded consumption	Unrecorded consumption in litres	Beverage of unrecorded consumption	Overall (recorded & unrecorded) consumption in litres
New EU Member States	10.2	beer/spirits	5.2	0.5	3.1		13.3
Czech Republic	12.9	beer	9.2	71.3	1.0	Slivovitz (moonshine made from distilling plums: 25–70% of alcohol)	13.9
Estonia	11.4	beer/spirits	4.3	37.7	1.0	Spirits (vodka: 40% of alcohol)	12.4
Hungary	11.9	wine/beer/spirits	4.7	39.5	4.0	Home made fruit brandies (palinka: 60–80% of alcohol)	15.9
Latvia	9.5	spirits	6.8	71.6	7.0	Low quality, toxic alcohol	16.5
Lithuania	12.3	beer/spirits	4.5	36.6	4.9	Home brew spirits (>40% of alcohol)	17.2
Poland	8.7	beer/spirits	4.3	49.4	3.0	Bimber, samogon, księżycówka (homemade liqueur: 40–60% of alcohol); sliwowica, lacka sliwowica (moonshine made from distilling plums: 40–60% of alcohol)	11.7
Slovakia	12.4	beer/spirits	5.7	46.0	4.0	Domaka (fruit homemade hard alcohol: 60% of alcohol)	16.4
Slovenia	7.1	beer	4.0	56.3	3.0	Tropinovec or Snopce is distilled from fermented grapes: 60–70% of alcohol; homemade Rakija (fruit brandy: >40% alcohol)	10.1
Candidates for EU Membership	9.2	wine/spirits	3.4	37.5	3.7		13.0
Bulgaria	6.4	wine/spirits	2.8	44.1	3.0	Rakija (homemade fruit brandy: 50–60% of alcohol), boza (beer made with grain: up to 4% of alcohol)	9.4

(Continued overleaf)

Table 1. (Continued)

Countries	Recorded per capita consumption in litres ^a	Main beverage of recorded consumption	Main beverage of recorded consumption in litres	Main beverage's % of recorded consumption	Unrecorded consumption in litres	Beverage of unrecorded consumption	Overall (recorded & unrecorded) consumption in litres
Romania	10.3	beer/wine/spirits	3.6	35.0	4.0	Palinka, switka (homemade fruit distilled brandy: 40% of alcohol)	14.3
Comparison Countries	9.2	spirits	5.7	55.0	6.3		15.5
Russia	10.6	spirits	7.4	69.8	4.9	Samogon (vodka: >40 % of alcohol)	15.5
Ukraine	4.9	spirits	0.5	10.2	10.5	Distilled alcohol, pyvo (hopped beer: 3–6% of alcohol), braha (unhopped millet beer: 3–6% of alcohol)	15.4
Mediterranean Countries: Cyprus, France, Greece, Italy, Malta, Portugal, Spain	10.6	wine	6.2	59.4	1.2	Relatively low unrecorded alcohol consumption; ouzo and raki (spirits: 40% of alcohol) in Greece and Cyprus; wine (8.5–20% of alcohol) production used or sold informally by farmers in others.	11.8
Nordic Countries: Denmark, Finland, Iceland, Norway, Sweden	7.9	beer	4.2	54.0	2.3	Travelers' imports and homemade spirits	10.2
Rest of EU: Austria, Belgium, Germany, Ireland, Luxembourg, Netherlands, UK	11.6	beer	6.6	56.6	1.2	Overall low proportion of unrecorded alcohol consumption	12.8
World ^b	4.4	spirits	2.0	45.5	1.7	Varies by countries	6.2

^a Adult per capita (age 15+) consumption for 2002 in litres of pure alcohol, derived as average of yearly consumptions, including unrecorded consumption.

^b Own calculations (see Rehm *et al.*, 2006).

world average (1.7 l), and compared to the average in other European regions.

It had been found that countries of CEE and its eastern neighbors (i.e. Croatia, Hungary, Moldova Republic, Romania, Slovenia, and Ukraine) have experienced a steep rise in mortality from alcoholic liver diseases and cirrhosis (Zatonski and Jha, 2000; WHO, 2004b; see also diverse contributions on www.hem.waw.pl). This increase in mortality could be associated with the consumption of illegally produced homemade spirits containing hepatotoxic aliphatic alcohols (McKee *et al.*, 2005; Szucs *et al.*, 2005).

Table 2 presents abstinence percentage and volume of alcohol consumption, as well as drinking patterns for countries in central and eastern Europe, and the world. For both men and women, the lowest proportion of abstainers or very light drinkers was in Czech Republic, and the highest was in countries of candidates for EU membership: Bulgaria and Romania. The proportion of on average heavy drinkers (40+ g/day) among men was the highest in Czech Republic (59.4%) and Russia (53.2%). Among women the highest proportion of heavy drinkers was in Hungary (16%).

The majority of the countries of CEE show a similar detrimental pattern of drinking (pattern 3), with the preferred type of beverages being beer and spirits. Bulgaria and Czech Republic have a less detrimental pattern value of 2, which is similar to the countries of Western Europe. Russia has the most detrimental patterns of drinking of all countries examined (pattern 4).

DISCUSSION

Overall, in the CEE, alcohol is consumed in a way which has been identified as being potentially linked to detrimental consequences (Rehm *et al.*, 2004; Rehm *et al.*, in press).

- The overall volume of consumption in this region is the second highest in the world (Rehm *et al.*, 2003b; WHO, 2004a) only surpassed by countries in Eastern Europe, such as the Moldova Republic, Russia, or Ukraine.
- With few exceptions, the style of drinking can be characterized by irregular binge drinking patterns.
- The proportion of unrecorded consumption is relatively high compared to other European countries.

Unrecorded consumption in eastern European countries was predominantly of homemade and more highly concentrated alcoholic beverages (alcohol content higher 35%). For example, the production of homemade spirits, most commonly samogon, was found to be very popular in many parts of Russia (McKee *et al.*, 2005), though, in some instances in Russia, the alcohol was of poor quality and was contaminated by toxic components (McKee *et al.*, 2005; Nuzhnyi, 2004). Samogon contains approximately 39% ethanol and its consumption has been linked to considerable liver damage. All examined samples of homemade spirits in Russia contained detectable amounts of 1-propanol, isoamyl alcohol and isobutanol, which exceeded the limit set by the Council of Europe (McKee *et al.*, 2005). Their limit was set at 2.5 mg/100 g and the mean amount of isobutanol found in Russian samogon

was 38.7 mg/100 ml (McKee *et al.*, 2005). Samogon also contains high amounts of the by-product aliphatic alcohol congeners which has been shown to cause hepatic damage in studies on animals (McKee *et al.*, 2005). Three important factors of danger associated with homemade spirits production have been found (McKee *et al.*, 2005). First, it is cheaper than industrially produced vodka (since homemade spirits are untaxed) and it has a much higher ethanol concentration. Secondly, the by-products of homemade spirits production are toxic, and they have been found to cause organ damage, especially to the liver. Lastly, the samogon must be diluted before consumption due to the high concentration of ethanol, and this process of dilution is difficult for those already intoxicated.

One of the limitations of this study was that the data on heavy episodic drinking are not comparable as they stem from different sources with different definitions and, unlike the estimation of average volume of consumption, there is no algorithm as to how to make these data comparable. Moreover, common definitions of heavy episodic drinking rely on thresholds such as 4 or 5 drinks per occasion or per day (Gmel and Rehm, 2004). In countries, where about half of the male population drink 4 or more drinks on a daily basis (see Table 2), such a definition does not make a lot of sense for characterizing high episodic drinking. This is especially true for Czech Republic. Although the proportion of Czech men who drink more than 40 g of pure alcohol per day or per occasion is the highest among all studied countries (Table 2), binge drinking is not as common in Czech Republic as in Russia. For example, Bobak *et al.* (2004) found that the rates of problem drinking were significantly higher in Russian men than in Czechs or Poles. Yet, Russian men reported a substantially lower mean annual alcohol intake than Czech men, with a low mean drinking frequency in Russia (67 drinking sessions per year in comparison to 179 sessions among Czech men). However, Russian men consumed the highest dose of alcohol per drinking session (means 71 g in Russians, 46 g in Czechs, and 45 g in Poles; Bobak *et al.*, 2004), and thus, by definition, had the highest prevalence of binge drinking behavior. Consumption rates as high as 90 g of pure alcohol per drinking session with occasional peaks of 160 g pure alcohol and higher, were reported in parts of Russia (Bobak *et al.*, 1999; Malyutina *et al.*, 2002). Moreover, there were very few drinkers in Russia who drank less than 40 g of alcohol per occasion (Malyutina *et al.*, 2002).

Overall, the CEE region and its eastern neighbors can be characterized by a high level of binge drinking compared to other European countries. For instance, in Lithuania, a high proportion of cardiovascular deaths were reported on weekends and on Mondays, which is an indirect indicator for binge drinking on the weekends (Chenet *et al.*, 2001). Binge drinking is also recognized in Estonia and Latvia (McKee and Britton, 1998). In Ukraine and Russia binge drinking is a norm among men and has been linked to illness and premature death (Charles *et al.*, 2005; Pridemore and Kim, 2006).

Given these characteristics, it is no surprise that alcohol-attributable burden of disease in CEE, as assessed by the Comparative Risk Assessment (CRA) of WHO (Rehm *et al.*, 2003a; Rehm *et al.*, 2004), is also one of the highest in

Table 2. Key indicators for alcohol consumption in CEE in comparison

Countries	Abstainer or very light drinker: 0 – <0.25 g/day		Heavy drinker: 40+ g/day ^a		Pattern of drinking score ^b
	M %	F %	M %	F %	
New EU Member States					
Czech Republic	9.0	19.9	59.4	7.0	2.0
Estonia	9.8	31.7	46.4	4.0	3.0
Hungary	12.0	27.0	47.0	16.0	3.0
Latvia	14.9	32.3	38.7	7.6	3.0
Lithuania	10.0	28.0	41.0	8.0	3.0
Poland	16.4	34.3	38.5	9.0	3.0
Slovakia	6.6	8.4	45.7	14.0	3.0
Slovenia	5.7	25.7	27.2	5.8	3.0
Candidates for EU Membership					
Bulgaria	23.6	57.4	25.8	4.8	2.0
Romania	22.1	51.6	43.9	10.2	3.0
Comparison Country					
Russia	13.8	27.5	53.2	8.4	4.0
WHO Europe A region ^{c,d}	11.0	22.0	44.2	7.6	1.5
World ^d	44.8	65.6	22.2	3.1	2.6

^a Presented data are own estimates, based on surveys data for specific countries (see Methodology section), adjusted for adult per capita consumption. One standard drink equals 10–14 g of pure alcohol, depending on country.

^b Pattern of drinking (1–4 with 4 being the most detrimental pattern) (Rehm *et al.*, 2003c).

^c The WHO Europe A region consists of the following countries: Andorra, Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Israel, Italy, Luxembourg, Malta, Monaco, Netherlands, Norway, Portugal, San Marino, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

^d Own calculations (see Rehm *et al.*, 2006).

the world. However, no detailed data exist as the CRA has categorized the CEE countries in three different regions: countries with the relatively highest economic power are part of Europe A, most of CEE is in Europe B, and countries with relatively lowest economic power are part of Europe C. As all these three WHO regions are made up from other countries as well, details on CEE cannot be ascertained. One of the most pressing tasks, especially with keeping the development of alcohol policy in mind, is to conduct a study on alcohol-attributable burden of disease specifically for the CEE region.

However, some conclusions can be made even now, without the knowledge of which specific disease categories are responsible for the high alcohol-attributable burden of disease in CEE. Firstly, the overall level of consumption should be reduced. Secondly, the specific pattern of irregular binge drinking, prevailing in so many countries of the region, should be changed. And thirdly, the proportion of unrecorded consumption should be reduced. This is especially true given the very high liver cirrhosis rates in the southern part of CEE, especially in Hungary, which are suspected to be linked with homemade alcohol products (Szucs *et al.*, 2005).

As experiences in other parts of the world have shown, effective (Anderson and Baumberg, 2006; Babor *et al.*, 2003) and cost-effective (Chisholm *et al.*, 2004) policies exist to achieve the above objectives. However, the recent integration into the EU may not make easy the implementation of some of

these measures such as taxation or alcohol monopolies; some of the most effective measures to reduce alcohol-attributable harm are considered by the EU as impinging on free trade, and thus, are either not allowed, or strongly discouraged. Two solutions seem feasible: First, the EU should reconsider the value of public health, even if in conflict with free trade. Second, politicians in the CEE should implement some of the other known effective alcohol policies. However, it seems clear that some policies should be implemented, because without interventions, the current situation of a high level of principle avoidable alcohol-attributable burden will prevail.

Acknowledgements—The work on this manuscript was conducted within the European Commission Public Health Project: HEM—Closing the Gap—Reducing Premature Mortality. Baseline for Monitoring Health Evolution Following Enlargement (grant agreement no 2003121) to the Cancer Center and Institute of Oncology, Cancer Epidemiology and Prevention Division, Warsaw (Principal Investigator: Witold Zatonski). Paolo Boffetta, John Powles, and Jürgen Rehm are investigators on this project. Marta Manczuk and Urszula Sulkowska helped in the data gathering and we would like to thank them for their kind assistance. Finally, we would especially like to thank Plamen Dimitrov (Bulgaria), Iveta Pudule (Latvia), Jacek Moskalewicz (Poland) and Tit Albreht (Slovenia) who kindly provided exposure data for their countries. We also thank Dolly Baliunas for her thoughtful comments on earlier version of this manuscript. Funding to pay the Open Access publication charges for this article was provided by the Centre for Addiction and Mental Health, section Public Health.

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