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Sustainability of Healthcare Financing in the Western Balkans:

An Overview of Progress and Challenges

Caryn Bredenkamp Michele Gragnolati

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Abstract

This paper explores the major challenges to the sustainability of health sector financing in the countries of the Western Balkans – Albania, Bosnia and Herzegovina, the Former Yugoslav Republic of Macedonia, Montenegro, Serbia and the province of Kosovo. It focuses on how the incentives created by the different elements of the healthcare financing system affect the behavior of healthcare providers and individuals, and the resulting inefficiencies in revenue collection and expenditure containment. The paper analyzes patterns of healthcare expenditure, finding that

there is some evidence of cost containment, but that current expenditure levels – while similar to that in EU countries as a share of GDP – are low in per capita terms and the fiscal space to increase expenditures is extremely limited. It also examines the key drivers of current healthcare expenditure and the most significant barriers to revenue generation, identifying some key health reforms that countries in the sub-region could consider in order to enhance the efficiency and sustainability of their health systems. Data are drawn from international databases, country institutions, and household surveys.

This paper—a product of the Health, Nutrition and Population Division, Human Development Department of the Europe and Central Asia Region—is part of a larger effort in the department to understand issues of efficiency and sustainability of health financing in the countries of the Western Balkans. Policy Research Working Papers are also posted on the Web at http://econ.worldbank.org. The authors may be contacted at cbredenkamp@worldbank.org and mgragnolati@worldbank.org.

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Sustainability of healthcare financing in the Western Balkans: An overview of progress and challenges

Caryn Bredenkamp cbredenkamp@worldbank.org

and

Michele Gragnolati mgragnolati@worldbank.org

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A. INTRODUCTION

The five Western Balkan countries – Albania, Bosnia and Herzegovina, the Former Yugoslav Republic (FYR) of Macedonia, Montenegro, and Serbia – and the province of Kosovo¹ have undergone significant transitions in the past decade or two, which have been complicated by a series of regional conflicts. After an initial phase focused on macroeconomic stabilization and reconstruction, reforms are now focusing on enhancing economic growth, promoting employment generation, and encouraging the containment and efficiency of public spending. The countries' shared aspiration to join the European Union (EU) exerts an important influence on policy decisions.

In the health sector, the main challenge is to continue to make progress towards achieving health system objectives, namely improving population health status and providing protection against the financial costs of illness, while ensuring the financial sustainability of the health sector.

This paper explores the major challenges to the sustainability of health sector financing in the Western Balkans, both on the revenue and the expenditure side, and identifies measures that can be taken to enhance it. It focuses on those elements that are endogenous to the healthcare financing system and that are amenable to improvement through government-led reforms, rather than exogenous elements such as demographic change and fiscal pressures. In so doing it examines the incentives created by the different elements of the healthcare financing system (such as the revenue collection system and the provider payment mechanism) and the effect that these incentives have on the behavior of healthcare providers, firms, and individuals, and the resultant inefficiencies. The central thesis is that, although countries in the Western Balkans have succeeded in containing the growth in public expenditure on health during the past few years, in future more efficient management of revenue collection and spending will be needed if countries are to steer their health systems towards attaining their objectives, while meeting the obligation of fiscal sustainability.

The structure of the paper is as follows: After describing the geographical scope of the analysis and the limitations of the data, the main patterns and historical trends in the sources of health care financing are presented, and the key challenges that the health systems face in ensuring sufficient revenue generation are discussed. Then, current and past expenditure patterns are described and the effects of the structure of the healthcare financing system on the magnitude and efficiency of health expenditures are explored. The paper concludes by summarizing some of the key health sector reforms that countries in the Western Balkans could consider in order to enhance the effectiveness and sustainability of their health systems.

B. GEOGRAPHICAL SCOPE, DATA SOURCES AND LIMITATIONS

B1 Geographical scope

This paper defines the Western Balkans as the five South Eastern European countries of Albania, Bosnia and Herzegovina, the Former Yugoslav Republic of Macedonia, Montenegro and Serbia,

¹ Kosovo is a province of Serbia under the autonomous administration of the United Nations. For the purposes of this paper, it is treated as a separate unit of analysis.

and the province of Kosovo². With the exception of Albania, all of these countries were part of the former Socialist Federal Republic of Yugoslavia (SFRY).

Throughout the paper comparisons will be made with the financing and expenditure patterns in the EU-15³ and EU-12⁴ countries. Explicit comparisons will also be made with Croatia and Slovenia. They are useful comparators because they were originally part of the SFRY, seceding in 1991, and have shared common aspirations of joining the EU⁵.

B2 Data sources

The data used in this report are drawn from a number of sources:

- (i) <u>International databases:</u> The World Bank's World Development Indicators 2007 database (WDI 2007) is the main source of health expenditure data⁶. For certain estimates that are not available in the WDI database, the World Health Organization's (WHO) Health for All 2007 database (HFA-DB 2007) is used. Most of the information on revenue sources is obtained from the WHO National Health Accounts (NHA) database.
- (ii) <u>Country institutions:</u> This report also relies on information provided to the World Bank by country institutions, such as ministries of health, ministries of finance, statistical institutes and institutes of public health. Some of this information has been published in World Bank reports, including poverty assessments, country and sector studies, and public expenditure and institutional reviews. These information sources are particularly valuable for data on Serbia, Montenegro and Kosovo for which revenue and expenditure information is not yet available in the major databases.
- (iii) <u>Household surveys:</u> Data on private out-of-pocket expenditure are mainly drawn from household surveys, conducted by governments or by statistical or international organizations, often with the support of the World Bank. These include the Living Standards and Measurements Survey (LSMS) and the Household Budget Survey (HBS).

B3 Data limitations

All of these sources are subject to certain limitations with respect to data availability and reliability, many of which are well-known and typical of the particular mode of data collection. In addition, the following limitations are of particular relevance to the data of the sub-region:

² This definition of the Western Balkans reflects the World Bank's operational classification of the subregions of Europe and Central Asia.

The EU-15 countries include all those that had joined the EU by 1995, namely Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Sweden, the United Kingdom and Spain.

⁴ The EU-12 countries include those that joined the EU from May 2004 onwards, namely Bulgaria, Cyprus, the Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, the Slovak Republic and Slovenia.

⁵ Slovenia is already a member of the EU and Croatia, having signed a Stabilization and Association Agreement with the EU in 2005, is advancing towards full membership.

⁶ Most of the WDI data are, in turn, derived from the latest WHO estimates, which are published in the WHO's *World Health Report 2006*, and then supplemented by published and unpublished World Bank and International Monetary Fund (IMF) data.

- (i) <u>Accuracy of population estimates</u>: Population estimates, and thus all *per capita* estimates, are subject to a high degree of inaccuracy owing to mass migration movements associated with sub-regional conflicts, as well as incomplete registration of births and deaths.
- (ii) Political status of Serbia, Montenegro and Kosovo: Separate data for Serbia and Montenegro are not yet available in most international databases since it is only in 2006 that Montenegro gained independence. There is also no information available for Kosovo in these databases due to its current status as an autonomous province. Data for Serbia, Montenegro and Kosovo, then, are predominantly drawn from World Bank documents, such as health sector notes and public expenditure and institutional reviews
- (iii) <u>Data vintage:</u> For most analyses, this report uses 2004 data, which is the latest year for which validated data are available in most international databases. If earlier or later estimates are used, this is stated.
- (iv) Consistency of estimates across sources: For some indicators, the international databases contain different estimates for the same year. In addition, the EU, EU-15 and EU-12 aggregate estimates that are produced by the WHO HFA-DB 2007 and World Bank WDI 2007 databases sometimes differ since the former uses population-weights in compiling its estimates, while the latter bases its weights on the denominator. In the event of inconsistencies across databases, we favored the estimates in the World Development Indicators 2007 over other databases, and estimates in World Bank publications over estimates in the publications of other institutions.

Because of these limitations, although data are drawn from the sources thought to be most accurate, they should be interpreted only as indicative of broad trends and of major differences across countries rather than as providing precise quantitative measures of those differences.

C. ENSURING SUFFICIENT REVENUES

The relative importance of payroll taxation and general revenues in the financing mix is one of the most common distinctions made between healthcare systems. In pure Bismarckian systems, the dominant sources of financing are employer and employee contributions, levied as a proportion of payroll, and pooled in social health insurance funds. At the other end of the spectrum, pure Beveridge systems are funded from general revenues with universal entitlement to a fairly comprehensive range of services, at least in Western Europe.

The health system of the former Yugoslavia, referred to as the *Stampar* model, was unique in Eastern Europe because it was funded from compulsory social insurance contributions rather than the state budget⁷. This financing mode persists in the new states and social health insurance is the dominant form of health financing in Macedonia, Serbia, Montenegro, and Bosnia and Herzegovina. The heritage of Albania's healthcare system is very different. Based on the former Soviet *Semashko* model, it was historically funded directly from the central government budget, with central health allocations for different health inputs and for each health care institution made according to population-based norms. Health insurance was only introduced in 1995 and does not play as prominent a role in health financing as in other countries of the sub-region.

⁷ The *Stampar* model, named for Croatian specialist in social medicine Andrija Stampar, emphasized primary health care and community-based medicine, encouraging family practice as a recognized specialization of medicine.

Social health insurance, as it is implemented in the sub-region, is similar to social health insurance in most of the EU-15 countries:

In the countries of the former Yugoslavia, there are publicly-financed and administered extrabudgetary health insurance funds that are responsible for overseeing and implementing both compulsory and any voluntary health insurance schemes. One characteristic of the systems is a purchaser-provider split – health insurance funds collect and pool insurance contributions⁸ and then contract with public, and sometimes private, providers to deliver health services. In Albania, on the other hand, the purchaser-provider split is still evolving. Albania's Ministry of Health exercises considerable control as both a financier and provider of health services: health services are directly financed through the state budget based on inputs (e.g. salaries), local governments administer primary health care, and the health insurance fund (a quasi-autonomous public agency) is slowly being granted control over health financing and contracting.

Another characteristic of the systems of the sub-region is the notion of a single-payer – the national health insurance fund is the only purchaser in the healthcare system, which is intended to lower administrative costs and enable it to leverage its monopsonistic power to purchase services from health care providers.

C1. Sources of healthcare revenues

Recognizing that, eventually, with the exception of donor funds, all healthcare funding originates with the individual, three main financing sources can be identified in the health sector. These include social health insurance (i.e. compulsory contributions in the form of payroll taxes), governmental revenues (in the form of direct and indirect taxes) and out-of-pocket payments (paid directly by the patient at the point of service). Out-of-pocket expenditures may be in the form of co-payments or co-insurance – paid for services partially covered by health insurance and designed to discourage unnecessary healthcare consumption – or in the form of full cash payments – by the uninsured or for services that lie outside the benefit package. In some countries, out-of-pocket expenditures may be inflated by informal payments to healthcare providers. Informal payments are usually defined as payments in cash or kind that recipients are not authorized to receive under the conditions of their contract or under the statutes of the governing bodies of their parent organizations (Chawla 2005), but in some places, informal payments can also take the form of genuine gifts given by patients to providers in appreciation of their services.

A fourth potential source of financing is voluntary health insurance which can be provided by the public insurance provider or by private insurance companies. Voluntary health insurance may be of the substitutive type, where it is offered as an alternative to mandatory social health insurance for at least a portion of the population; or complementary, to cover the cost of co-payments; or supplementary, to cover health care services not included in the standard benefits package. Donor funds are a fifth source of financing, but its share of total healthcare financing in the sub-region is small and has been declining.

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⁸ In Bosnia and Herzegovina, the collection and pooling functions are separated and performed by different institutions: the national taxation authority and some cantons collect contributions, and there are multiple health insurance funds at different levels of government where contributions are pooled

Systems that rely more heavily on public funding tend to do better at attaining health system objectives such as financial protection, equity in finance, and equity in utilization (WHO/EURO 2006). The share of public healthcare financing, including both social health insurance and general revenues, in total healthcare revenues is substantial in at least some countries of the subregion, and in 2005 was equivalent to around 70% in Macedonia as well as in Serbia and Montenegro. Still, this was less than the share of public resources in the comparator countries of Croatia and Slovenia (81% and 77% respectively). Almost all remaining healthcare expenditure is in the form of private out-of-pocket expenditures. In Albania and in Bosnia and Herzegovina, more than half of total healthcare financing is in the form of out-of-pocket payments made by households (see Figure 1), potentially rendering the health systems in these countries less accessible to the poor.

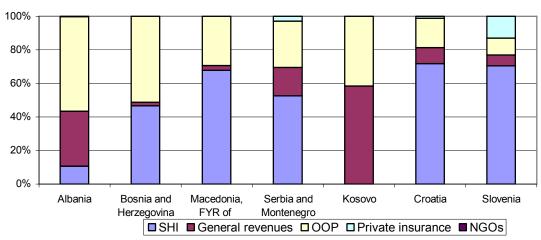


Figure 1 Sources of health care financing, 2005

Source: WHO NHA database⁹,

Note: Exact figures are provided in Appendix III; the definition of "private insurance" includes all prepaid, private risk-pooling plans; Kosovo data are for 2004 and the figure does not show the 2.1% of donor funding received in that year.

In all the countries of the former Yugoslavia, payroll taxation is a major source of financing and most public expenditure on health flows through the health insurance funds (see Table 1). This includes both monies collected as payroll contributions to the health insurance funds, as well as transfers to the health insurance funds from extra-budgetary funds, e.g. from pension and unemployment funds to cover the health insurance contributions of the pensioners and the unemployed. In 2005, according to WHO National Health Accounts data, this was equivalent to about 96% of public health sector resources in both the FYR of Macedonia and in Bosnia and Herzegovina. In Serbia and Montenegro, the share was a little lower at 76%¹⁰. These percentages are in the same range as the share of social health insurance in public revenues in Croatia and Slovenia, the two republics of ex-Yugoslavia that have made most progress in health sector financing reform. In Albania, despite a mandatory contributory health insurance scheme, social health insurance funded only 25% of public health sector expenditure with the rest coming from general revenues. While Kosovo has drafted a health insurance law, there is not yet a health insurance fund in the country and all health expenditure is financed from the general budget and

⁹ Note that these are estimates and, with the exception of Serbia, none of the countries in the sub-region have developed and institutionalized a National Health Accounts system.

¹⁰ According to World Bank estimates, 90 percent of public health expenditure in Serbia in 2005 was in the form of payroll contributions paid to the HIF.

user fees, with some additional, but declining, off-budget donor support (equivalent to 2.1% of total health expenditure in 2004)¹¹.

Table 1 Share of public health sector revenues from social health insurance contributions and general revenues, 2005

	Social health insurance	General revenues	Total
Albania	24.8	75.2	100
Bosnia and Herzegovina	95.6	4.4	100
Macedonia, FYR	96.1	3.9	100
Serbia and Montenegro	75.7	24.3	100
Kosovo	0	100	100
Croatia	88.3	11.7	100
Slovenia	91.4	8.6	100

Source: WHO NHA database

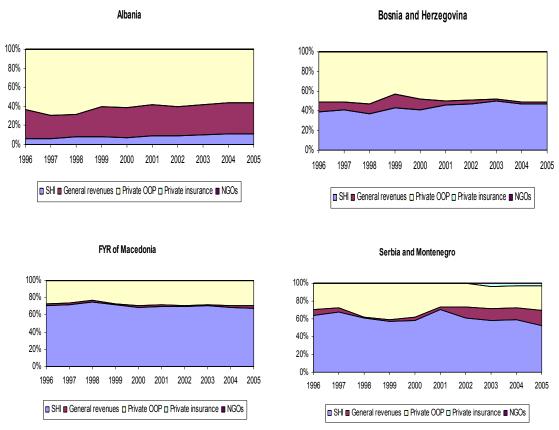
Private, voluntary health insurance is not well-developed in the Western Balkans. Serbia is the only country in the sub-region where private insurance schemes constitute a significant, if small, share (3%) of total healthcare revenues. There, the Health Insurance Act of 2005 allowed for the development of voluntary health insurance of a substitutive or complementary type, but the number of subscribers is small and concentrated in large cities. A limited number of commercial insurers are also active in Bosnia and Herzegovina, and the FYR of Macedonia and Montenegro have a legal framework in place that will facilitate the insurance market's emergence (Langenbrunner *et al.* forthcoming). In all countries, however, there are some major obstacles to the development of private voluntary health insurance. Most prominent among these are the generous benefit packages offered by compulsory health insurance, the fairly limited number of private providers that can offer alternative care, and low co-payments – all of which reduce the incentives to develop supplementary and complementary insurance plans.

Over time, there have been marked shifts in the composition of revenues. These shifts have not exhibited a uniform pattern across countries, though (see Figure 2), and it is not possible to identify a particular trend. In Albania, the share of out-of-pocket expenditures has fallen slightly, and the share of social health insurance has grown. In Bosnia and Herzegovina, the share of general revenues has dwindled, while the shares of social health insurance and out-of-pocket expenditures have grown by similar amounts. The opposite pattern is observed in Serbia and Montenegro where, following a fairly volatile period (due, in part, to conflicts in the region and, in part, to health sector reforms), by the end of the decade, general revenues had become a far more important financing source than ten years earlier, at the expense of the role played by social health insurance. The emerging importance of private health insurance as a source of financing in Serbia is also captured by the data. There has been very little change in the composition of financing in the FYR of Macedonia.

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¹¹ Discussion is ongoing as to whether social health insurance would be the best type of financing for the health sector in Kosovo.

Figure 2 Trends in the composition of revenues



Source: WHO NHA database

As with most social health insurance schemes elsewhere in the world, contributions to health insurance funds in the sub-region are not related to individual or group risk, but are levied on earned income. They are compulsory for most employed groups, and are typically shared between the employee and the employer. The greatest share of healthcare funding is collected through compulsory payroll taxation, but there is also a direct transfer of contributions from the state budget to the health insurance funds on behalf of particular categories of people who are exempt from making contributions and to finance special programs and the administrative costs of the Ministry of Health.

In the countries of the former Yugoslavia, where payroll contributions account for at least three-quarters of health sector revenues, health insurance contribution rates paid by formally employed workers are high, between 15 and 17% of payroll (see Table 2). Albania, where payroll taxes account for only 25% of health sector revenues, is entirely different: health insurance contributions amount to only 3.4% of wages, shared equally between the employer and the employee. This pattern reflects Albania's heritage because countries of the former Soviet Union typically set the level at around 2-4% of payroll.

There is no consistent pattern in the sub-region regarding the employer-employee share of the burden of taxation. While both are equally taxed in Albania, Montenegro and Serbia, in the FYR of Macedonia the employer pays the total cost of the health insurance contribution and in both entities of Bosnia and Herzegovina, most of the tax burden falls on the employee. Farmers and

the self-employed tend to face lower contribution rates than salaried workers in the public and private sectors.

Many categories of labor force participants are exempt from paying contributions. The state budget transfers money to the health insurance funds to cover certain vulnerable groups, such as the disabled and war veterans. The unemployed and pensioners either have insurance contributions paid on their behalf by the unemployment and pension funds or are covered by budgetary transfers.

Table 2 Health insurance contribution rates

	Year	Salaried worker	Self-employed	Non-active and
	started	(Employer:		contribution-exempt
		Employee share)		groups
Albania	1995	3.4% payroll	3-7% of statutory	Central budget
		(1.7:1.7)	minimum wage,	
			depending on urbanicity	
Bosnia and Herzego	ovina		•	
-Federation	1997	17 % payroll	15% of cadastre	Central budget, pensions and
		(4:13)	revenue	unemployment funds
-Republika	1999	15 %	15% of cadastre	Central budget, pensions and
Srpska		(0:15)	revenue	unemployment funds
Macedonia, FYR	1991	9.2% payroll	9.2% of income	Central budget
		(9.2; 0)		_
Montenegro	1993	15% payroll	13.5% of main	Pensioners: 19% of net
		(7.5:7.5)	wage	pension.
				Unemployed: 9.7% of
				unemployment benefit, but in
				practice 7.5%
~				Others: central budget
Serbia	1992	15.92% payroll	14.4% of net	Pensioners 12.3% of net
		(7.95:7.97)	wage	pensions Others: central
			Farmers: 4% of	budget, equal to 15.95% of
			property tax	average wages.
Croatia	1993	15% payroll	18% of income	18% of gross pension and
Cround	1,7,5	(15%:0)	Farmers: 15% of	other benefits plus central
		(,)	income if in VAT	budget and county budgets
			system, or 7.5%	thaget and to analy thangeth
			of income	
			estimated based	
			on land ownership	
Slovenia	1993	13.25% payroll	13.25% of	Central budget.
		• •	income	-

Source: Langenbrunner et al. (forthcoming)

C2. Challenges ahead

In all countries of the sub-region (with the exception of Kosovo), it is the health insurance fund that pools revenues for health, regardless of whether the source of those revenues are payroll taxation or general taxation (i.e. central budget transfers). The flow of revenues from these primary revenue streams to the health insurance fund has been unreliable, and together with escalating expenditures, has resulted in repeated annual deficits and chronic arrears (see section

D1.5). This is due to a number of factors. Some factors are related to the flow of contributions from employer- and employee-funded health insurance, and include the labor market structure (specifically, widespread unemployment and a large informal sector which narrow the contribution base), the large number of categories of the population that are formally exempt from making contributions, and the evasion of contributions by those who are legally obliged to pay, partly due to poor collection enforcement mechanisms. In addition, budgetary transfers to the health insurance funds to cover, among other things, the contributions of exempt populations are not always sufficient. Another factor affecting revenue flows to the health sector is the fees charges levied at the point of service: users tend to be charged low co-payments, many categories of people are exempt from making co-payments, and a fairly wide range of health services do not have co-payments associated with them.

C2.1 Limited formal employment growth and high levels of informal employment

The sustainability of healthcare financing is affected by the structure of the labor market. Social health insurance works best in economies with high levels of formal employment, and thus large payroll contribution bases, and efficient administrative systems that facilitate the payment of contributions.

Unemployment rates are high in all countries of the sub-region, except Albania, and employment tends to be of a long-term nature. No country approaches the target of a 70% employment rate outlined in the European Employment Strategy. Rather, a large share of the active labor force works in the informal sector where contributions to health insurance are not made. Another segment of the population is formally self-employed and, therefore, responsible for making their own contributions, but compliance among this group is not effectively enforced. It is particularly difficult to collect contributions from farmers, and especially subsistence farmers, because of the difficulties associated with assessing their incomes. As a result, active health insurance contributors often account for a relatively small share of the active labor force.

In economies with this labor market structure, and where the link between entitlement to services and payment of contributions in weak, a reliance on payroll taxes is likely to result in the demand for services exceeding the resources that are available to finance them.

Table 3 Labor market indicators, Western Balkans, 2004

	Participation Rate	Employ- ment rate	Unemploy- ment rate	Long-term unemployment	Informal employment rate ¹³
Albania	63.7 %	60.1%	5.6%	68.4%	76%
Bosnia and Herzegovina	59%	46%	22%		42%
Kosovo	n.a.	n.a.	$50\%^{14}$	n.a.	n.a.
Macedonia, FYR	51.2%	32%	37.2%	84.5%	n.a.
Montenegro	65.1%	40.6%	23%	85%	27%
Serbia	66.6%	53.5%	19.5%	71%	35%

Source: ILO for Macedonia: World Bank estimates for other countries

Note: Most estimates are based on household surveys; for Montenegro, data are based on the registered unemployed; all Kosovo figures should be treated with skepticism due to the poor availability of data.

C2.2 Limited scope to raise social health insurance contributions

In general, financial planning with respect to contribution rates is poor, and contribution rates are still not set according to an actuarial analysis of expected costs and revenues for the insured population. Rather, contribution rates tend to be based on a combination of estimates of desired revenues (which may or may not reflect the actual revenue that can feasibly be collected given the challenges outlined above) and an assessment of the political acceptability of adding to an already high tax burden (Langenbrunner *et al.* forthcoming).

There does not appear to be much scope to raise health insurance contributions in future. With the exception of Albania, contribution rates are already very high, and comparable to those in the EU-15. The situation is further constrained by the fact that other forms of payroll taxation are also high. In Serbia, for example, there is an effective 36% social tax on wages, including health insurance contributions of 12%, pension contributions of 22% and unemployment contributions of 1.5%.

High labor taxes are a brake on employment expansion. Indeed, one question that arises is whether the current high unemployment levels are partly the result of these high levels of payroll taxation. Although in theory, and in the long run, a tax on wages would be shifted onto employees, in countries where product and labor markets are not very competitive, employers may not be able to reduce wages to compensate for an increase in payroll contributions in the short run (Gottret and Schieber 2006). Therefore, payroll-financed health contributions may increase labor costs and, in turn, lead to higher unemployment. They may also reduce competitiveness of the country and deter further investment.

C2.3 Widespread formal exemptions from the payment of social insurance contributions

In addition to informal sector workers, many categories of labor force participants are exempt, by law, from paying contributions to the health insurance fund. These groups may include both

¹² The long-term unemployment rate is the percentage of the unemployed that have been unemployed for 12 months or longer.

¹³ Definitions of the informal employment rate vary by country.

¹⁴ While the official unemployment rate in Kosovo is around 50%, World Bank estimates that take into account seasonal and informal employment place the unemployment rate within the 23%-33% range.

active labor market participants and inactive members of designated vulnerable groups such as the elderly and disabled. In Albania, for example, formally exempt categories of the population include pregnant women, war veterans, the disabled, the unemployed, recipients of social assistance, cancer patients, conscripts and pensioners. In Bosnia and Herzegovina, pensioners, the disabled, the unemployed, refugees and people with foreign insurance are exempt.

Although these groups are exempt from making contributions, they are still entitled to the services that form part of the benefit package. Since the percentage of the population that falls into one of the exempt categories tends to be very large – in Bosnia and Herzegovina, for example, about half of those who receive health insurance coverage are exempt from paying contributions – there is a potential threat to the financial position of the fund. To cover the potential funding shortfall, the government typically undertakes to make contributions on behalf of these workers by way of transfers either from general revenues or from extra-budgetary funds (for example, from pension funds and unemployment funds). However, these contributions are not always designed to be equivalent in magnitude to the contribution rates paid through payroll taxation for health. Also government ministries sometimes fail to fulfill their agreement to pay the defined contribution amounts for the vulnerable groups that are exempt from contributions. This typically leaves the health insurance funds facing deficits.

C2.4 Evasion of contribution payments

While contributing to national health insurance funds is compulsory for most categories of employed and self-employed workers in the sub-region, there is a risk that both employers and employees will evade contributions unless the proper control mechanisms are in place.

For employers, high contribution rates create a strong incentive to avoid making contributions on their employees' behalf. In the FYR of Macedonia, for example, where the employer bears the entire burden and, consequently, faces the highest employer contribution rates in the sub-region, it is estimated that, of the 8% of the population that do not contribute, most are formal sector workers whose employers fail to pay in contributions on their behalf.

For employees, the incentive to contribute depends not only on the contribution rate, but also on the size of the benefit package and the extent to which failure to contribute results in one being excluded from receiving benefits. Where benefit packages are less generous, the incentive to contribute to health insurance is small. In many countries, the link between contribution and entitlement is weak and, since those who evade contributions can still collect benefits, tax evasion is rife. This is the case in Serbia where, despite a contributory social insurance system, there is, in practice, universal health coverage. In 2004, for example, the self-employed and farmers in Serbia contributed only 5% and 0.78% of total HIF revenues, far less than their population share.

Underlying tax evasion by both employers and employees are problems of information and enforcement. Those with incentives to evade taxes would not be able to do so if collection authorities could obtain information on evaders and enforce the payment of contributions. Most health insurance funds do not have information systems that would allow contributions to be linked to a beneficiary database. This limits their ability to control the collection of contributions and enforce payments from private employees, including the self-employed and farmers. Even if tax evaders could be identified, punitive measures are weak.

The incentives of the collecting agent also play a role in determining the extent to which contribution collection is enforced. In most countries in the sub-region, the health insurance funds

are the collecting agents. Bosnia and Herzegovina, however, has moved the collection function from the health insurance fund to the national tax authority. It is believed that this move substantially reduced the incentive to collect contributions because the link between collection efforts and revenues was broken (Langenbrunner *et al.* forthcoming) and the taxation authority lacks the power and inter-ministerial coordinating ability needed to impose sanctions on firms and workers that do not pay contributions. Recent data reveal that in Bosnia and Herzegovina, collection rates vary from 30% to 84% across cantons.

C2.5 Co-payment policies: widespread exemptions, low levels of co-payments and poor collection

One revenue source is the charges levied at the point of service, whether these are co-payments for services covered by health insurance, fees for services provided to those who are not covered by insurance, or fees for services that lie outside of the benefit package. The purpose of such fees is generally twofold: first, to generate revenue, and second, to curb excess demand for services by combating moral hazard.

Out of equity concerns, the countries in the sub-region allow exemption from co-payments or reduced co-payments through either income-testing or categorical targeting of people who are more likely to be poor, such as the elderly. Exemptions from co-payments are also often introduced for particular categories of health services for which it is desirable to induce demand, such as immunization, treatment of infectious diseases, and other preventive care.

However, co-payment exemptions that are too widespread and co-payment levels that are too low may threaten the financial sustainability of health insurance funds and health systems. In the FYR of Macedonia, it is estimated that, at any given time, almost 50% of the population is exempt from co-payments and in Serbia, prior to co-payment reform, about 65% of the population was exempt from co-payments, although this has now been reduced to about 25% (through removing exemptions for the registered unemployed, most age-based exemptions, and exemptions for particular categories of diseases).

In those countries, such as Macedonia and Albania, where health care providers are required to submit the co-payments that they collect to the health insurance funds, the poor revenue stream flowing from co-payments is further reduced by weak collection incentives. Since the budget of an individual institution is not affected by the volume of fees collected, there is not a strong incentive to collect co-payments. Alternatively, it may create an incentive for the provider to collect, but not to remit, the fees. In Macedonia, for example, Health Insurance fund (HIF) data show that while 96.4% of the co-payments that should have been collected by the healthcare providers were collected, only 8.1% of these co-payments were remitted to the HIF. To better align incentives, Macedonia intends to change its policy from 1st January 2008 so that providers can keep the co-payment income.

D. ENCOURAGING EFFICIENT EXPENDITURES

Achieving health system objectives requires substantial expenditure. In order to contain these expenditures and maximize their impact, it is essential that money is spent efficiently.

In this section, we describe the current levels of health expenditure, trends in expenditure patterns, and the allocation of expenditure across different healthcare categories. Then we discuss

how the current levels of expenditure and particular patterns of allocation are driven by the mix of incentives created by the structure of the healthcare financing system, such as the provider payment mechanisms, the pharmaceutical procurement and pricing systems, the nature of the benefits package, and the human resource policy, among other factors.

D1 A large share of national resources are allocated to healthcare expenditure

An analysis of healthcare expenditures in the Western Balkans reveals that total healthcare expenditure (as a share of GDP) in the sub-region is similar to that in EU countries. However, the proportion of this expenditure that can be attributed to private spending is much larger than in the EU. Still, these expenditure levels translate into only small per capita levels of expenditure, even when the figures are adjusted for purchasing power parity. Also, while aggregate public expenditure is in line with EU and EU-15 levels and per capita spending levels are low, there is no fiscal space to increase public expenditures since healthcare already absorbs a large share of total government expenditure.

D1.1 Current expenditure levels as share of GDP are aligned with EU countries

The share of GDP allocated to healthcare by countries of the Western Balkans tends to exceed that of most other lower middle income countries and, instead, is on par with that of many of the EU members (see Figure 3). The total share of GDP spent on healthcare is lowest in Montenegro (6.6%) and Albania (6.7%), but health shares in the FYR of Macedonia, Kosovo and Bosnia and Herzegovina exceed the average expenditures of the EU-12. Total health expenditures, as a percentage of GDP, are highest of all in Serbia (10.6%), exceeding the EU and EU-15 averages of 9.2% and 9.3% respectively.

While total healthcare expenditure in the sub-region is comparable to EU countries, the share of public expenditure is lower (with the exception of Serbia), meaning that private out-of-pocket expenditures account for an unusually high share of total expenditure – much more than in the European Union and comparator countries. Moreover, there is reason to believe that, at least in some cases, private healthcare expenditure in the sub-region tends to be under-estimated by official data. In the FYR of Macedonia, for example, the use of Household Budget Survey data increases the private expenditure estimate by a whole percentage point. This may be due, at least in part, to the incidence of informal payments, as much as to limitations of official data sources.

Across the sub-region there is a fair amount of variation in the mix of public and private expenditure. While in the FYR of Macedonia, Serbia and Montenegro, health expenditures are financed mainly from public sources, as in most other EU countries, in Bosnia and Herzegovina public and private shares are very similar and in Albania private expenditures slightly exceed public expenditures.

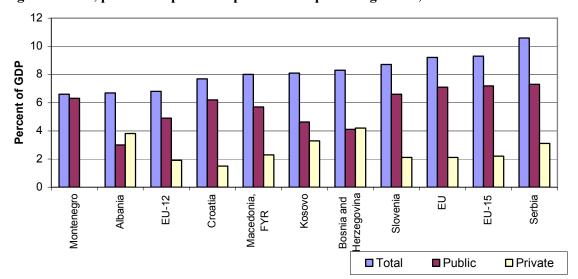


Figure 3 Total, public and private expenditure as percentage GDP, 2004

Source: WDI database 2007 for Albania, the FYR of Macedonia, Bosnia and Herzegovina, Croatia, Slovenia and the EU aggregates; World Bank estimations for Serbia, Montenegro and Kosovo.

Note: Data are ordered in ascending magnitude of total health expenditure; for Kosovo, 2004 amounts are underestimated due to incomplete reporting of donor off-budget spending; the EU aggregate data are GDP-weighted.

Due to small per capita incomes, these high percentage expenditures translate into low levels of per capita expenditure (see Figure 4). In particular, in 2004 per capita expenditure in the Western Balkan countries ranged from approximately \$100 (Kosovo) to \$300 (Serbia) in current US dollars. Expressed in PPP-adjusted terms, this is equivalent to around \$400 (for those countries for which PPP-adjusted data are available). Compared to levels in the rest of the European Union, per capita expenditure levels within the sub-region are very similar to each other.

Not only are per capita expenditures levels in the region fairly similar to each when compared to other countries, they are also very low. In 2004 dollar terms, per capita expenditure in the Western Balkans in 2004 was less than one-tenth of that in countries in the European Union and less than half of that of new EU entrants (i.e. the EU-12). While some share of the difference in expenditure levels between EU-15 countries and the Western Balkan countries can be explained by differences in purchasing power, per capita expenditure figures for the countries of the sub-region remain around half of the average of the new EU entrants and about a sixth of that of the EU-15, even when the figures are adjusted for purchasing power.

Per capita expenditure levels have been increasing over time, however. With the exception of Bosnia and Herzegovina, the increase in PPP-adjusted per capita expenditure has either kept pace with or exceeded the average EU increase of 33% observed between 1999 and 2004. Still, increases are lower than the 51% average increase observed across the new EU entrants.

3500 60 Per capita expenditure 3000 2500 2000 30 1500 20 1000 500 Kosovo Herzegovina EU-12 Slovenia Serbia EU-15 Albania Macedonia Croatia \Box TFYR Bosnia-■ Current US\$ ■ PPP\$ ▲ % change 1999-2004, PPP\$

Figure 4 Per capita health expenditure (in current US\$ and PPP\$), 2004, and change in per capita health expenditure (PPP\$), 1999-2004

Source: WDI database 2007 for current US\$ figures and WHO HFA-DB 2007 for PPP\$ figures for Albania, the FYR of Macedonia, Bosnia and Herzegovina, Croatia, Slovenia and the EU aggregates; World Bank estimates for Serbia and Kosovo

Note: Countries are ordered by increasing magnitude of per capita expenditure in current US\$; EU aggregates are population-weighted

D1.2 The share of resources spent on health has not increased over the past decade

The expenditure patterns described in the previous sections have had a certain amount of durability. Despite the fact that real total health expenditures have increased substantially over time, there is evidence of spending containment. With the exception of Albania, the rate of increase of health expenditures has been lower than the rate of growth of the economy and, when expressed as a percentage of GDP, total health expenditure has, in fact, fallen slightly over time in the sub-region. The downward trend appears to have been equivalent to about 1 percentage point of GDP over the last decade. This is in contrast to the slightly increasing expenditures that have been observed in Slovenia and also elsewhere in the EU. Among the comparators, it is only in Croatia that health expenditures as a share of GDP have declined over the past decade (see Figure 5).

12.00 10.00 8.00 6.00 4.00 2.00 0.00 1996 2005 1997 1999 2000 2002 2004 1998 2001 2003 Albania Bosnia and Herzegovina Macedonia, FYR of Serbia and Montenegro 12.0 10.0 8.0 6.0 4.0 2.0 1996 1997 2001 2004 1998 1999 2000 2002 2003

Figure 5 Trends in total health expenditure (as percentage GDP) in the Western Balkans and comparator countries, 1996-2005

Source: WHO NHA database (for Western Balkans, Croatia and Slovenia) and WHO HFA-DB 2007 (for EU, EU-15 and EU-12)

EU

EU-15 ---

EU-12

Slovenia

D1.3 The fiscal space to increase expenditures is extremely limited

- Croatia

Fiscal space can be defined as "the capacity of government to provide additional budgetary resources for a desired purpose without any prejudice to the sustainability of its financial position" (Heller 2006). While current per capita healthcare expenditure is low, it appears that – at least for the countries for which data are available – the fiscal space for additional expenditures on health is very limited. Most countries in the sub-region already spend a large proportion of their public budgets on health. In 2002, the FYR of Macedonia and Serbia and Montenegro allocated the same share of government expenditure to health as Croatia and Slovenia did (i.e. 14%), even though the latter had tremendously higher levels of per capita expenditure (see Table 4). In addition, all countries in the sub-region spent the same or greater share of total government expenditure on health as the EU-15. This means that if health systems in the sub-region are to expand the quantity and quality of services offered to their populations, the resources for that will need to be sought through either (i) sustained economic growth that generates formal employment and increases total public sector resource availability, or (ii) increasing the cost-effectiveness and efficiency of existing health sector program. It is only Albania that stands out, allocating half of the budgetary share to health that other countries do.

Table 4 Public expenditure on health as percentage of total government expenditure

	Value	Year
Albania	7.3	2001
Bosnia and Herzegovina	12.8	Average of 1996-2002
Macedonia, FYR of	14.4	Average of 1996-2002
Kosovo	11.5	2004
Serbia and Montenegro	14.0	Average of 2000-2002
Croatia	13.6	Average of 1996-2002
Slovenia	14.4	Average of 1996-2002
EU-15	12.9	Average of 1996-2002

Source: IMF Government Finance Statistics: Bank estimates for Kosovo

D1.4 The functional composition of public expenditure is marked by inefficiencies

While strict cross-country comparisons are not possible since categories of expenditure in available data sources differ across countries¹⁵, it is clear that the composition of health care expenditure is skewed towards inpatient care. Typically, such an imbalance results in a crowding-out of expenditure on outpatient and preventive care – care that is typically more cost-effective. Still, the ratio of inpatient to outpatient care, in most cases, is not that much higher than in the EU-15 and OECD countries. As a percentage of total public spending on health, the EU-15 spends about 38% on inpatient care and 31% on outpatient care. The ratio is identical in OECD countries which, on average, allocate most of their health expenditure to inpatient care (38%), followed by outpatient services, including ancillary services and homecare (31%) (Orosz and Morgan 2004). Very similar ratios are observed in the Federation of Bosnia and Herzegovina and in Montenegro. In the FYR of Macedonia and Republika Srpska, though, the percentage of the health insurance fund budget spent on inpatient care is almost 10 percentage points higher than in the EU-15 and in other countries of the sub-region.

Pharmaceutical expenditures are also very high and an important driver of medical inflation (see next section)¹⁶. Also, actual total expenditure on drugs are higher than these figures reveal because most pharmaceutical estimates tend to reflect only outpatient and retail pharmacy drug expenditure, and not the large drug expenditures that are incurred while in hospital and classified as part of inpatient care expenditure.

While a conclusive statement can not be made since data are not available for all countries, capital expenditures in the sub-region tend to be lower than is needed to maintain physical infrastructure and medical equipment in good condition and to purchase up-to-date medical technology.

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¹⁵ This reflects differences in the national health accounting systems since the standard National Health Accounts expenditure reporting methodology is not yet used in most of the countries of the sub-region. The one exception is Serbia where a first set of National Health Accounts have recently been completed, although the process is yet to be institutionalized.

¹⁶ See the Policy Note on the Pharmaceutical Sector in the Western Balkans for a more in-depth description of the expected increase in spending on pharmaceuticals in the sub-region in the next few years.

Table 5 Health insurance fund expenditures by level of care, percentage, 2002–04

	Inpatient	Outpatient	Prescription Drugs	Capital Investments
Bosnia and Herzegovina				investments
- Federation	38	31	7	5
- Republika Srpska	51	27	7	2
Macedonia, FYR	50	19	13	0.36
Montenegro	39	30	12	4
Serbia	41	24	12	0.30
Croatia	45	16	13	n.a.
Slovenia	n.a.	n.a.	n.a.	n.a.
EU-15	38 ^a	31	n.a.	n.a.

Sources: Original data from Health in Transition Reports, OECD health data, and Bank estimates

Note: EU-15 figure refers to expenditures on inpatient care as a percentage of total public spending on health, and not as a percentage of heath insurance fund expenditure.

D1.5 Expenditures have to be better managed to avoid the accumulation of deficits

While there has been some improvement in recent years, in most countries in the sub-region, health insurance funds continue to incur repeated deficits which, over the years, have resulted in large arrears for the public health sector. Many healthcare institutions, too, are in arrears, with substantial accumulated debts to their suppliers.

For example, in Bosnia and Herzegovina, arrears in the health sector amounted to 0.9% of GDP in 2004. Arrears were equivalent to 0.5% of GDP in the Federation, but more acute in Republika Srpska where, at 1.9% of GDP, they were equivalent to almost one-third of public health spending. By far, the major share of arrears was incurred by hospitals.

In the FYR of Macedonia there has been a substantial reduction in arrears owing to the introduction of measures such as monthly financial reporting by the health insurance fund and the health care institutions; competitive bidding to improve efficiency in the procurement of pharmaceuticals; and hard budget ceilings for health care institutions. By the end of July 2006, total arrears were approximately US\$78 million, which is a 23% reduction on the figures for the preceding year. Of the total still owed, 66% is due to debts of the health care institutions and the rest to debts of the health insurance fund.

Serbia, too, had persistent health sector deficits, with the arrears of the HIF growing from 7.9 billion dinars in 2002 to 9.5 billion dinars by the end of 2004. During this period, debts to health care institutions increased until they constituted almost half of all debts of the health insurance fund. Other arrears of the health insurance fund include accumulated debts in the form of delayed sick leave payments to beneficiaries and interest payments (equivalent to 3% of total HIF expenditures). In 2006, all arrears were paid off – in a once-off transfer – with the proceeds of privatization. Such solutions, although providing temporary deficit relief, do not address the underlying causes of the problem.

Montenegro is the one country that has increasingly managed to bring annual health insurance fund deficits under control. It has progressively improved the financial position of its health insurance fund from a deficit of over 8% at the end of 2001 to a 1% surplus in 2004.

D2 Drivers of health expenditure

The data presented in the previous section showed that while total health expenditure in the region is lower than in the EU in per capita terms, it is not substantially lower in terms of GDP. This means that despite low per capita spending levels and poorer health status indicators, there is unlikely to be room to increase expenditures. Rather, spending on any priority areas will need to be financed from efficiency gains and savings in current areas of healthcare expenditure, rather than additional budgetary allocations to health.

In this section, we examine the main drivers of healthcare expenditure in the sub-region, with a specific focus on how to improve the efficiency of those expenditures. In particular, we look at the upward pressures on healthcare expenditure that are brought to bear by the current healthcare financing arrangements and the behavioral incentives that they have created.

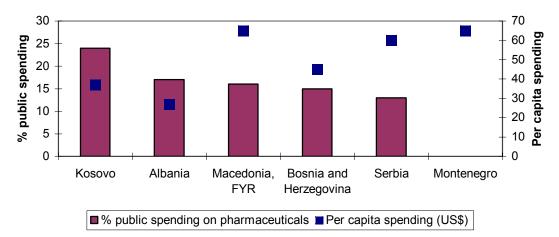
D2.1 Pharmaceutical procurement and pricing systems

The countries of the Western Balkans spend between 12% and 24% of their public health expenditure on pharmaceuticals. On a per capita basis, there is much variation in annual expenditure levels, ranging from less than USD\$30 per year in Albania to around USD\$60 in Serbia, Montenegro and the FYR of Macedonia¹⁷. While these levels are not excessive compared to expenditure levels in OECD countries, where public expenditure on pharmaceutical and medical devices averages 21% of public health expenditures (Orosz and Morgan 2004), the current procurement and pricing systems result in a number of inefficiencies which drive up costs unnecessarily. In the future, the upward pressure on pharmaceutical expenditures may be further aggravated by population aging (if one consequence of aging is that the elderly will have a greater a number of unhealthy life years than they have now), increases in health system utilization (which is one of the goals of health system reform programs in the region), and the development of new, potentially more expensive, pharmaceuticals.

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¹⁷ These figures have not been adjusted for purchasing power parity and, if they were, there is likely to be less variation across countries.

Figure 6 Pharmaceutical expenditure in the public health sector as a percentage of total public spending on health, and per capita pharmaceutical expenditures



Source: World Bank estimates (for expenditure as a percentage of GDP) and discussions with stakeholders (for per capita figures, see Policy Note on the Pharmaceutical Sector in the Western Balkans)

Note: For expenditure as a percentage of GDP: Data are for most recent year available, usually 2004 or 2005; data for Bosnia and Herzegovina reflect total pharmaceutical expenditure as a percentage of *total* health expenditure; part of the variation in expenditure levels across countries may be attributable to difference in definitions of pharmaceuticals; data refer to "prescription drugs" in Albania and Serbia, and only to outpatient pharmaceuticals and devices in Macedonia and Bosnia and Herzegovina, excluding drugs used in inpatient care. For per capita expenditure: the Bosnia and Herzegovina provided by stakeholders is "less than 50" rather than an actual number.

The drug pricing and procurement system not only has implications for the share of pharmaceuticals in health insurance fund expenditures (i.e. for public expenditure) but also for household out-of-pocket expenditure on health. Pharmaceutical expenditures account for a large share of households' private expenditure on health. According to the FYR of Macedonia's 2005 Household Budget Survey, for example, pharmaceuticals are the largest component of household expenditure on health (followed by spending on medical services), accounting for three-quarters of the health expenditures of the lower 4 quintiles. Poor supply management in pharmaceuticals in the public health system can aggravate the situation when it results in drug shortages in the public sector and drugs have to be purchased at private pharmacies. In Kosovo, for example, households spend an average of 65% of their out-of-pocket health expenditure on purchasing drugs that are supposed to be provided free under Kosovo's essential drug program, but are not available in public health centers or hospital pharmacies.

There are many measures that countries in the Western Balkans could consider to improve the efficiency of their pharmaceutical sectors. These include both supply-side mechanisms (e.g. price controls, positive lists, pre-approval for expensive drugs, competitive procurement and volume controls) and demand-side mechanisms (e.g. co-payment for prescription drugs, and budget or quota restrictions for physicians) for improving efficiency.

If efficiency gains are to be realized and expenditure contained, an important starting point is to ensure that positive lists of the drugs that are covered by health insurance funds have been developed. The decision to include new drugs on positive lists should only be taken after careful economic analysis of the cost-effectiveness of those medications. Guidelines to help providers prescribe drugs on the positive list should be laid down and pharmacists could be encouraged to substitute prescribed drugs for generic equivalents included on the list. Where higher cost brands (of non-innovative drugs) are preferred by the consumer or provider, health insurance funds

should limit reimbursement to the lowest generic equivalent or, at the very least, impose higher co-payments.

How drugs are priced is a key driver of pharmaceutical expenditures. Prices for most medicines in the Western Balkans tend to be regulated. For single source patented drugs, reference pricing schemes are in place that set the domestic price based on prices (and typically the lowest prices) in neighboring countries and some EU countries. Countries with reference pricing should ensure that this system is used for the entire set of patented drugs included on the positive list. For generic drugs, prices tend to be negotiated with the manufacturer and competition among manufacturers in the procurement of drugs could be more actively encouraged. One approach could be to use competitive tender mechanisms in defining the prices of drugs on the positive list. This strategy has enabled Serbia, Montenegro and the FYR of Macedonia to substantially reduce drug prices in the public sector. Montenegro's Health Insurance Fund, for example, spent an enormous 30% of total health expenditures on pharmaceuticals in 2002, but following the introduction of a sophisticated pharmaceutical information system and an open tender system managed to reduce drugs costs by 31% within two years. The introduction of competitive bidding for pharmaceuticals in Macedonia is reported to have contributed to a 30% decline in pharmaceutical expenditures. One canton in Bosnia and Herzegovina, Tuzla, has also introduced an open tender system.

The regulation of pharmacies needs to be strengthened and measures should be taken to enhance transparency in their pricing systems. High mark-ups on drugs at the pharmacy level are common, and often in excess of levels recommended by health ministries. For example, while Republika Srpska uses a system of reference prices based on a generic drug level to define sales prices for HIF reimbursable drugs, pharmacies then sell drugs at a price that is about three times above the Ministry of Health's suggested prices. The implementation of a sophisticated pharmaceutical information system that links health insurance funds to pharmacies and allows health insurance funds to monitor expenditures, such as is in place in Montenegro, could yield substantial dividends. Introducing better drug labeling systems could help to combat illegal imports and overcharging by pharmacies. A large reform in Albania, for example, was to introduce labels that show the retail price, name of the drug, importer and batch number.

The decentralization and fragmentation that characterizes the healthcare system in Bosnia and Herzegovina imposes additional costs. There, each of the 13 health insurance funds (including the FBH Solidarity HIF and the 12 cantonal HIFs) has its own drug procurement rules, procedures, and positive lists. Small procurement volumes with high associated transaction costs result in substantially higher prices. There are also sharp geographic inequalities since prices often differ substantially across cantons and some cantons are too poor to pay for the more advanced drugs. In the FBH, a price-setting system that selects preferred manufacturers and wholesalers in the cantons results in substantial geographic price variation with co-payments for the same drugs varying between 25% and 100% of drug prices across the cantons and entities. Substantial efficiency gains, which would be translated into cost savings, could be realized if a single competitive procurement process and a single positive list was established at a more centralized level, possibly through the creation of one central drug agency, or at the very least one drug agency at each entity level.

Finally, in order to track pharmaceutical expenditures properly, countries should strengthen their national health accounts systems. Currently, it is only expenditure on pharmaceuticals that are provided by public outpatient providers and reimbursed through the HIF that can be accurately monitored. Expenditure on inpatient drugs is usually not counted as pharmaceutical expenditure, but rather included together with inpatient costs under "inpatient expenditures", resulting in an

underestimation of total pharmaceutical expenditures. Also, measuring out-of-pocket expenditure on any aspect of healthcare is almost impossible without regular, and detailed, household budget surveys.

D2.2 Generous benefit packages and increasingly expensive medical technology

In the Socialist Federal Republic of Yugoslavia (SFRY), access to healthcare was a constitutional entitlement of all citizens, and benefits were exceptionally comprehensive. Today, healthcare benefits at both primary and secondary level remain very generous in Serbia, Montenegro, Kosovo, Bosnia and Herzegovina and Macedonia, and typically include a range of non-essential services and even non-health benefits. This tends to drive up expenditures by encouraging excessive consumption of these services, which are often very expensive.

In Serbia, recent reforms have eliminated coverage for plastic surgery and funeral expenses and restricted dental coverage to children, but the package still includes expensive treatment abroad and generous sick leave benefits. There is anecdotal evidence that the sick leave provision is frequently abused and used to temporarily disguise redundant unemployment. In Macedonia, the non-medical benefits of maternity leave and sick leave consume as much as 5-6% of annual HIF expenditures. By contrast, in Albania, which does not have the same legacy of generous health insurance-related entitlements, the benefit package is more limited.

In all countries, there is a risk that the benefit package will expand in size over time: as medical technology advances, there will be a demand for the inclusion of the latest technological procedures into the benefit package. This demand will come not only from consumers, but also from healthcare providers, especially those who have benefited from more sophisticated training and continuing medical education.

Consequently, countries in the region need to move towards defining affordable benefit packages that are focused on services provided at the primary and secondary level. This process will require a careful analysis of the costs, and cost-effectiveness, of different treatments, and a careful analysis of anticipated health insurance revenues.

One reform that countries could consider would be to remove non-medical benefits from the health insurance package. These benefits are not included in most EU countries and, in comparisons of health care expenditure, artificially inflate the share of GDP devoted to health in the Western Balkans. The difference, in the case of Serbia for example, is estimated to be equivalent to around 1% of GDP.

With respect to new technologies, it may be prudent for countries in the sub-region to follow the example of many EU countries and adopt formalized medical technology assessment (MTA) and pharma-economics techniques in evaluating the cost-effectiveness of new technologies before giving approval for their inclusion in benefits packages. Currently, decisions tend to be made by committees of experts which are typically dominated by clinicians rather than financing experts. This could occur in conjunction with reforms that reserve investment in the most sophisticated medical technology for tertiary and specialized hospitals, and implement appropriate referral systems to ensure that those patients who need the particular technology receive it. This could help to prevent unnecessary duplication of equipment and technological investment that is not justified by patient loads.

D2.3 Salaries

Expenditure on medical and non-medical wages and salaries accounts for a fairly large share of total health expenditure, but the share varies widely across the sub-region. The wage bill accounted for 48% of public expenditure on health in the Federation of Bosnia and Herzegovina in 2006 (World Bank estimates), a similar share in Republika Srpska in 2004 (World Bank estimates), 46% in Macedonia in 2005 (WHO HFA-DB 2007), 29% in Serbia and in Montenegro in 2000 (WHO HFA-DB 2007), and 35% Kosovo¹⁸ (World Bank estimates). By comparison, the wage bill was equivalent to 35% of public expenditure on health in the EU-12 countries in 2004 (WHO HFA-DB).

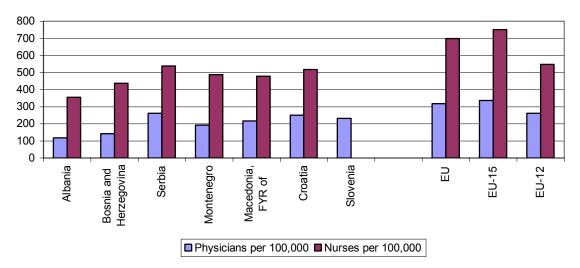
Since salaries account for such a large share of total health expenditure they are an important determinant of the financial sustainability of health systems and adopting a sustainable human resource strategy needs to be an explicit question addressed by ministries of health if costs are to be contained. The size of the wage bill is determined both by the number of employees in the health sector and by their wages.

Recent data reveal that the number of physicians, and especially the number of nurses, *per capita*, is lower in the Western Balkans than in the EU-15 and EU-12 countries, despite the high share of salaries in total public expenditure on health. In Albania and Bosnia and Herzegovina, the density of doctors is especially low, at less than half of EU levels. The problem is not the total number of physicians but the excessive proportion of specialists. This is because in the past there was a tendency to train too many specialist doctors and too few general practitioners, which shifts expenditures upwards by providing specialized care to patients who could be treated more cost-effectively at lower levels of care. In Serbia, for example, two-thirds of medical doctors are specialists and only 15% are general practitioners. The cost-effectiveness of the healthcare systems of the Western Balkans could be improved by following the OECD practice of increasing the number of nurses relative to doctors and allowing nurses to undertake a wider range of clinical functions combined with selective referral to specialists. Although an examination of the data shows that the doctor-nurse ratios are not, in fact, higher in the Western Balkans than in EU countries, nurses in the sub-region often perform a range of ancillary rather than clinical functions and their numbers are not, thus, representative of medical and clinical capacity.

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¹⁸ The Kosovo figure is, in fact, very high if one considers that highly-specialized care is not offered in the province.





Source: WHO HFA-DB, 2007

Note: Data are for 2005, except for the EU-15 and Slovenia where data are for 2004

There is an expectation that there will, in future, be a demand for higher salaries, especially among doctors. Wage compression across different medical professions (e.g. doctors, nurses, specialists) is typical in the Western Balkans and means that doctors' salaries are among the lowest in Europe, which fuels wage demands and creates an incentive for doctors to emigrate. Thus, while expenditure on wages, as a percentage of public spending on health, is already close to EU levels, future upward pressure on the wage bill is expected. The example of the EU-8 countries may be instructive: between 1999 and 2003, the average monthly salary in the Czech Republic, Slovakia and Hungary increased by more than the average monthly salary of occupational groups with equivalent levels of education and experience (Chawla 2005). Moreover, the ratio of physician salaries to national average for these occupational groups in the Western Balkans is well below the average ratio of 2 that is observed in EU-15 countries.

Another source of upward pressure on the wage bill is a staffing structure that exhibits large non-medical (i.e. ancillary) staff to medical staff ratios. In Macedonia, for example, non-medical staff account for almost 30% of total staff numbers; in Bosnia and Herzegovina, the figure is 33%. The share is slightly lower at around 28% in Serbia and Montenegro, and is being further reduced under current reform programs, but is still high compared to the ratios in the EU and comparator countries. In the United Kingdom, for example, the figure is only 13%. However, since the functions of many ancillary staff working in the United Kingdom and other European health systems tend to be contracted out, this figure is likely to substantially underestimate the number of ancillary workers in the public healthcare sector in other countries, thus making it very difficult to accurately gauge to what extent the non-medical to medical ratio in the Western Balkans really exceeds that of the EU.

Improving the efficiency of the health sector will necessarily involve the rationalization of the number and type of workers in the health sector, as well as their functions. Serbia, for example, has already taken steps to reduce the number of medical and non-medical employees, as part of a wider public sector rationalization program

Optimizing the staff mix could be facilitated by moving from an input-based hospital payment method to an output-based one. The fixed annual budget allocations of the input-based systems mean that health care managers have neither the autonomy and flexibility nor the incentives to hire and fire workers so as to optimize the staff mix.

D2.4. Excess medical capacity in the hospital sector

The share of health expenditure devoted to the hospital sector in the Western Balkans is high, but the sector is marked by low productivity. This takes a number of forms.

Inpatient admission rates are low with the result that available resources, such as hospitals, beds and staff, are under-utilized. Annual inpatient admission rates range from 8.7 per 100 people Albania to 12 per 100 people in Serbia, compared to 17 in Croatia, 18 in Slovenia, 17 in the EU and 21 in the EU-12. Bed occupancy rates in acute care hospitals for those countries for which data are available (i.e. Serbia, Montenegro and Macedonia) are between 5 and 10 percentage points lower than the EU average of 76%. Moreover, the fact that the patients who are admitted seem to have longer-than-average stays in hospital, between 9.5 and 11 days, compared to an average of 8 days in EU 10 and 9.25 days in EU as a whole, means that bed occupancy rates are higher than they would have been were patients being discharged or moved to outpatient care as soon as they could be. Only in Albania is the average length of stay (ALOS) very short, about 6.4 days. Comparison with data from earlier years suggests that the ALOS has been rapidly decreasing, though: between 2000 and 2005, the ALOS fell by at least one day in all the countries of the Western Balkans.

With the exception of Montenegro, the number of outpatient contacts per person per year is low compared to EU countries. In Albania, the average person utilizes outpatient care only about 1.5 times per year. This number is higher in Bosnia and Herzegovina (3.3) and in the FYR of Macedonia, but well below the EU and Montenegro average of around 7.

Table 6 Inpatient and outpatient health care utilization, 2005 (unless noted otherwise)

-	Bed occupancy rates (acute care hospitals)	ALOS (days)	Inpatient admissions, per 100 people	Outpatient contacts, per person per year
Albania	-	6.4	8.7	1.5
Bosnia and	-	9.6	8.2	3.3
Herzegovina				
Serbia	69%*	10.6	12.0	-
Montenegro	69.7%*	9.8*	10.7	6.9
Macedonia, FYR	55.5%	11.1	9.9	4.3
Kosovo	-	-	-	-
Croatia	88.1%	10.3	16.6	6.9
Slovenia	70.1%	7.1	17.6	7.2
EU	75.9%	9.3*	18.1*	6.8*
EU-15	-	9.6**	17.5**	-
EU-12	74%	8.03	20.8	7.9

Source: WHO HFA-DB, 2007, except for Serbia and Montenegro (World Bank estimates)

Note: Data are for 2005, unless denoted by an * for 2004 or a ** for 2003

With the exception of Macedonia, all countries have between 1 and 2 hospitals per 100,000 people compared to an average of 3 hospitals in the EU. Also, compared to the EU average of 585 beds per 100,000 population, the number of beds in the hospital sectors of the Western Balkans is

not completely excessive, and much lower than the group of new EU entrants where the average was 644 per 100,000 in 2005 (see Table 8). In fact, the number of beds per 100,000 people in Albania and Bosnia and Herzegovina is about half that of the EU. Moreover, it is only in Serbia and in Bosnia and Herzegovina that health systems seem to be dominated by a few large hospitals with enormous bed capacity. Elsewhere, capacity is very similar to the EU – at least on a population-wide basis.

What may be more of an issue is the appropriateness of the distribution of those beds across hospital sectors (general, specialized and tertiary care) and across the geographic area of the country. Bed numbers in specialized facilities may not necessarily correspond to the specific medical needs of the population; the bed numbers may not be located in areas of greatest population need while other population groups may have access to a number of medical facilities. In urban centers, for example, there are some very large hospitals that account for a large share of the total national bed availability, but very little access in rural areas. For example, while Macedonia averages 470 beds per 100,000 people, the distribution of these beds is such that bed capacity varies between 130 per 100,000 in Kochani and 520,000 per 100,000 in Shtip.

Another major source of inefficiency in health systems is the loss of productivity that can result due to underutilization of primary health care facilities, too-frequent referral from the primary care level to the secondary and tertiary care levels, and skipping of primary care treatment to seek care directly at the secondary and tertiary level. Physicians in Bosnia and Herzegovina, for example, only resolve about half of primary health care cases and refer the rest to the more expensive secondary and tertiary care, even though such referrals may be unnecessary. One contributing factor is the low number of primary health care units in some countries. In Bosnia and Herzegovina, Serbia and Montenegro, the number of primary health care units per 100,000 people is only around 30, which is half as many as there are in the EU-12 countries.

Table 7 Supply of medical facilities, 2005

	Hospitals per 100,000	Primary Health Care units per 100,000	Hospital beds per 100,000
Albania	1.6	76.55	297
Bosnia and	0.95	30.28	304
Herzegovina			
Serbia	1.38	-	593
Montenegro	1.93	29.52	418
Macedonia, FYR	2.65	91.05	470
Kosovo	-	-	-
Croatia	1.76	74.54	545
Slovenia	1.45	3.2	483
EU	3.04	-	585
EU-15	3.19	-	571
EU-12	2.63	62.22	644

Source: WHO HFA-DB, 2007

Note: Data are for 2005, except for the EU-15 data which are for 2004

To improve hospital productivity, the average length of stay (ALOS) should be shortened, bed occupancy rates increased and the number of beds reduced. Further reductions may be possible by improving admission management, facilitating earlier discharge and strengthening coordination among levels of providers, especially when it comes to moving patients from inpatient to outpatient care.

Countries could also consider reducing the number of beds, and planning so that the number of hospitals and beds is based on the estimated catchment-area population. Moving to a case-based payment method (see section D2.5) is one possible way to achieve a more rational allocation of beds since hospitals without sufficient cases would be forced to merge with other hospitals or close down. Standards of care and decision rules that help to reduce the average length of stay in hospitals could be implemented.

D2.5. Line budgeting

Current systems of paying providers, and especially hospitals, do not encourage cost containment nor provide incentives for better performance. It is these systems that are, in part, responsible for the efficiency problems, such as excess medical capacity and excess staff, discussed in the previous sections.

In the sub-region, line budgeting is still the most common provider payment mechanism. In this system, the health insurance fund pays providers according to line items, such as wages and salaries, utilities, medicines and other supplies, on the basis of an annual contract negotiated between the health insurance fund and each provider. Because the budget in one year is largely determined by the costs of inputs in the previous year, hospital management has an incentive to utilize the entire budget each year rather than to contain expenditures. Also, while the contracts between healthcare institutions and health insurance funds may require reports on performance, there are typically no penalties associated with poor performance, and hence no accountability. In addition, since the budget is related to historical patterns, and not to the number and the severity of the cases treated, there is no incentive to treat difficult cases, but rather an incentive to refer these cases to higher levels of care. This means that primary care providers do not act as effective gate-keepers to higher levels of care.

In the medium-term, countries in the region could consider moving from input-based to output-based financing mechanisms. A useful starting point may be the implementation of global budgeting, which is currently under development in Bosnia and Herzegovina and FYR of Macedonia. This is a prospective budget-setting approach that fixes the price as well as the volume of inpatient services. A more sophisticated provider payment mechanism would be the use of case-based financing based on diagnosis-related groups (DRGs). Most countries of Western Europe now use a combination of global budgeting and DRG approach, and a pilot is currently underway in Podgorica, Montenegro.

Such reforms will necessarily have to be accompanied by capacity-building in health information systems in order to capture the data necessary to make informed decisions about the allocation of resources. For global budgeting, and especially for a DRG approach, detailed information on the costs of all different resources, as well as data on the different diagnostic groups, will be needed.

E. MOVING FORWARD

Over the past decade, all countries of the sub-region have embarked on a number of reforms aimed at improving access to a health system that provides comprehensive quality services and protects vulnerable groups from the impoverishing effects of ill-health, while still ensuring the systems' fiscal sustainability. As experience elsewhere in Europe has shown, such reforms are technically, institutionally and politically difficult and need to be sustained for extended periods if

they are to be implemented effectively (Belli 2001). Clearly, there is no "one size fits all" solution, and devising strategies to manage healthcare expenditures will require careful consideration of the precise financing mechanisms in place, the macroeconomic context and the political climate. However, the following actions can be singled out as necessary elements of a successful reform:

Optimize revenue collection. The sustainability of healthcare systems depends largely on the ability to generate sufficient revenues. Today many countries in the Western Balkans continue to face difficulties in raising revenues, due to high levels of unemployment, informal economic activity and poor collection mechanisms. In countries with social health insurance, the aging of the population will put increasing pressure on the sustainability of health financing both through increased demand for healthcare by the adult population and, most importantly, larger dependency ratios and a smaller contribution base. Many countries in Europe that relied only on payroll contributions to finance healthcare have begun to revisit their financing arrangements and, to different degrees, have started relying more on general revenues. Depending on their institutional and fiscal situation, and on their preferences, countries in the Western Balkans should also develop an explicit, comprehensive revenue collection strategy that considers all available methods, such as direct taxation, indirect taxation, social security contributions, voluntary health insurance, and user charges¹⁹.

Rationalize the benefit package. In all Western Balkan countries, benefit packages are very comprehensive and, therefore, very costly. In order to eliminate the implicit rationing of health care stemming from an unaffordable benefit package – and the associated inefficiencies and inequities – it is necessary to align the services provided with the resources that are available. This process should involve a review of the size and scope of the package that takes into consideration international practices, national demographic and epidemiological characteristics and the expected future flow of revenues.

Modernize the healthcare delivery system. The introduction of a new primary healthcare model that emphasizes family medicine is proving to be successful in most countries, and is resulting in increased patient satisfaction. This should only be the first step, however, towards a more profound reorganization process, aimed at eventually making general practitioners the "gatekeepers" of the rest of the health system, as part of a larger strategy of optimizing the existing network of providers. In order to do so, most countries in the Western Balkans have started preparing hospital restructuring strategies (also referred to as Master Plans) to reorient the delivery system towards preventive and primary care and to increase the efficiency of the hospital network by establishing infrastructure, equipment, staffing and service standards in each facility. Politically, this is a very difficult process, and is often in conflict with the interests of physicians who tend to be specialists working in larger hospitals.

Engage the private sector. Involving the private sector in both the financing and provision of healthcare services needs to be further explored because of the potential efficiency gains and greater consumer choice it offers. Involvement can include the provision of private healthcare in public or private facilities, which will in turn require a stronger role for government in licensing, accreditation and quality assurance. Private health insurance, either as a substitute or complement to social health insurance, exists only in Serbia. Public-private partnerships are not yet well-known in the sub-region. While there is substantial scope for private sector involvement in healthcare financing and delivery, successful involvement will require the careful development of

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¹⁹ See Langenbrunner *et al.* (forthcoming) for a discussion on the options for sources of health financing and revenue collection.

an appropriate legal and regulatory framework, and so this is an issue that needs to be integrated into the larger debate on healthcare reforms in the Western Balkans.

Strengthen human resource planning and training. As important as the financing and organizational reforms are, countries also need to proceed quickly to upgrade the clinical management of care. To do so, two types of interventions are particularly important. First, providers' skills ought to be upgraded to reflect state-of-the art medical practice, which relies heavily on evidence-based medical and nursing practices. Second, new protocols ought to be developed since some of the existing protocols are outdated, especially with regard to the promotion of healthy lifestyles, the prevention of non-communicable diseases and outpatient-based methods of disease management. Continuing medical education, which has been introduced as part of the health system reforms in most countries of the Western Balkans, needs to be sustained.

Reform the payment system for health providers. The payment system that countries in the Western Balkans inherited pays salaries that are based on coefficients defined by the Ministry of Health in collaboration with the Ministry of Finance and trade unions of healthcare professionals. The system does not grant any substantial financial incentive for the accomplishment of a greater volume of work and/or the delivery of more efficient and better quality services. Changing the way healthcare providers are paid is the central pillar of reorienting the health system away from historical, line item budgeting towards a system that rewards outputs and quality, thereby increasing the efficiency of public spending and the sustainability of health financing. Reforming the payment system will, however, be a very difficult and lengthy process. One of the biggest constraints is the limited capacity for strategic purchasing in most health insurance funds. Most countries in the Western Balkans have started or plan to start introducing capitation payments for primary health care and case-based payments for secondary and tertiary care. As countries move forward with changing provider payment mechanisms, it is crucial to consider individual incentives alongside institutional incentives. It is not sufficient to devise ever more sophisticated reimbursement systems at the institutional level if employees within these institutions continue to receive the same low, productivity-independent salaries. In addition, steps will need to be taken to reduce the volume of informal payments made to healthcare providers since they undermine the impact of health reforms, siphon funds away from the health system and negatively affect the quality of service provided to those who cannot or do not make these payments.

Regulate the pharmaceutical sector. Countries in the Western Balkans have made significant progress in modernizing their pharmaceutical sectors. Nevertheless, drug expenditure is set to grow in this region as it did in other countries in Eastern Europe, typically at a rate of about twice GDP growth, due to inevitable factors such as innovation, aging populations, increasing incomes and better access to health care. For the foreseeable future there will be a need for further capacity-building in the pharmaceutical sector, with a focus on increased oversight and higher professional standards, more efficient use of limited public resources, better drug pricing policies, equity in access and the rational use of medicines.

Improve data quality. The paucity of good data with which to track health care expenditure and revenue streams, and analyze liabilities, deficits and arrears, is a constraint on countries' abilities to effectively manage their expenditures. An important first step could be to move towards institutionalizing systems of National Health Accounts within each country, which would allow the analysis of expenditure by combinations of provider type, function and financing source. In the Western Balkans, it is only Serbia that has advanced in this process, but first steps towards it have been taken in Montenegro and Kosovo. At the level of the individual institutions, the establishment of formal and regular financial reporting mechanisms is important. Regular

household budget surveys with detailed health budget components would greatly enhance the measurement of private out-of-pocket health expenditures.

So far, governments in the sub-region have managed to contain the increases in public spending on health within the rate of growth of their economies. At the same time, not only does the fiscal space to further increase public spending on health remain limited, but health insurance funds have generally failed to keep their expenditures in balance with their revenues, and the health system has accumulated substantial debt. If the desired health system goals are to be achieved, health system reforms will need to be sustained for extended periods of time. Thus, the Western Balkans no longer face the choice of either reforming their health sectors or leaving them unchanged. Fiscal pressures make sectoral change inevitable. The real question is whether policymakers will allow change to occur in a piecemeal fashion toward uncertain outcomes or will instead try to steer it along a sustainable path.

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APPENDIX

Table 8 Share of healthcare financing derived from different sources

	Public Private		Total			
		General		Private		
	SHI	revenues	OOP	insurance	NGOs	
Western Balkans						
Albania	10.8	32.7	56.4	0.0	0.1	100
Bosnia and Herzegovina	46.6	2.1	51.2	0.0	0.0	100
Kosovo	0	59.0	61.0	0.0	0.0	100
Macedonia, FYR of	67.9	2.7	29.4	0.0	0.0	100
Serbia and Montenegro	52.6	16.9	27.6	2.9	0.0	100
Comparators						
Croatia	71.9	9.5	17.5	1.1	0.0	100
Slovenia	70.4	6.6	10.0	13.0	0.0	100

Source: WHO NHA database

Note: The definition of "private insurance" includes all prepaid, private risk-pooling plans; Kosovo data are for 2004 and the figure does not show the 2.1% of donor funding received in that year.