



STOCKTAKING REPORT

COUNTRY-SPECIFIC MEDICAL CONDITIONS IN DIAGNOSTIC AND TREATMENT OF HIV AND HEPATITIS B/C CO-INFECTIONS

Potsdam, March 2011

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Title: BORDERNETwork STOCKTAKING REPORT: COUNTRY-SPECIFIC MEDICAL CONDITIONS IN DIAGNOSTIC AND TREATMENT OF HIV AND HEPATITIS B/C CO-INFECTIONS

Potsdam, March 2011

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PREFACE

The spread of HIV/AIDS and other sexually transmitted diseases in the end of the eighties and the early nineties is situated between the collapse of the socialist authoritarian regimes in Middle-, Eastern and South-Eastern Europe and the reorientation of these societies. In a time with a large lack of statehood and the Great Transformation of centrally planned economies into liberal market economies, the governance became weak, so the health care system wasn't really able to react on the new establishing problems in the health care sector.

In the framework of this system collapse socio-economic problems like poverty, a high unemployment rate and the disintegration of normative value systems, lead to a great depression in Eastern Europe. A large number of persons covered their problems and hopelessness by using intravenous drugs.

In most of the reviewed countries the health care system developed a couple of years after the fall of the Iron Curtain. Estonia¹ and Slovak Republic² established health insurances in 1993. These health insurances were all citizens' health insurances with high out-of-pocket payment. Romania³ established a Health Insurance Fund in 1998 with a high co-payment of 30% of the costs for health care. At last, Poland⁴ created in 2003 a single health insurance company with the National Health Fund, in which all polish citizens take part.

The present epidemiological situation is the result of the weakness of statehood and governance in the former transition period. In countries, especially like Estonia, the spread of HIV/AIDS and other STIs, but also the drug consume weakens the regenerative process of these societies and lead to a shrinking number of inhabitants and a threat for the economic wealth⁵. HIV/AIDS affects the socio-economic process in three ways: At first, direct costs for the increasing expenses on health care programmes, health insurances or the education of health care professionals. The second issue are the indirect costs which influence the productivity of the single citizen (by the absence from the job or

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¹ Merten, M.: Gesundheitssystem Mittel- und Osteuropas (Teil 7): Estland. Auf Erfolgskurs., in: Deutsches Ärzteblatt Jg. 103, Heft 1-2. 09. Januar 2006, S. A28 – A31

² Merten, M.: Gesundheitssystem Mittel- und Osteuropas (Teil 3): Slowakei. Zwei Seiten einer Reform., in: Deutsches Ärzteblatt Jg. 102, Heft 11. 18. März 2005, S. A737 – A740

³ Merten, M.: Gesundheitssystem Mittel- und Osteuropas (Teil 9): Rumänien. Veränderungen brauchen Zeit., in: Deutsches Ärzteblatt Jg. 105, Heft 19. 09. May 2008, S. A998 – A1000

⁴ Merten, M.: Gesundheitssystem Mittel- und Osteuropas (Teil 1): Polen. Bedrückende Resignation., in: Deutsches Ärzteblatt Jg. 101, Heft 47. 19. November 2004, S. A3150 – A3152

⁵ See: Barnett, T. and Whiteside, A. Aids in the Twenty-First Century: Disease and Globalization. London: Palgrave Publications, 2002; See also: World Bank / Adeyi, O. et al. Averting Aids Crises in Eastern and Europe and Central Asia. A Regional Support Strategy. Washington, D.C.: World Bank 2003

indisposition). At last the systematic costs, which occur by negative effects on the working climate or the team spirit.⁶

Beside these country-specific problems of HIV epidemic there are different global challenges. The HIV drug resistance is one of these increasing global issues and it is close connected with the management of Hepatitis b and c co-infections.

Drug resistance leads to the need for expensive second-line and third-line therapy regimens and the prognosis of the patient is worse. With the existence of transmitted or acquired HIV drug resistance the possibilities of treating both HIV infection and hepatitis co-infection are limited because important drugs cannot be used and remained medications can cause potential different side effects and drug interactions in the treatment of co-infections. That's why the prevention of HIV drug resistance also improves the conditions for a good clinical management of hepatitis co-infections.

THE STRUCTURE OF THE STOCKTAKING SURVEY

Work Package 7: "Referral, management, treatment and care of HIV/STIs and coinfections" started in August 2010. Together with the Robert Koch-Institute (RKI) we created an instrument to get more detailed information about the current situation of HIV/AIDS and co-infections in 5 Eastern- and South-Eastern European countries. We developed two questionnaires (see appendix) for our cooperation partners and for treatment specialists, who are dealing with HIV/AIDS and co-infections. The questionnaire for the cooperation partners should collect information about the general epidemiological situation in the relevant countries. An additional aim was to get information about existing national guidelines for diagnose and treatment of HIV/ AIDS, Hepatitis B, Hepatitis C and co-infections. The questionnaire for the treatment specialists is designed more detailed. We tried to find out, the epidemiological situation, the possibilities and standards in diagnostics and treatment they have in their clinics and treatment centres. We sent out 5 questionnaires to our cooperation partners and over 20 questionnaires to different treatment specialists in these countries. Our cooperation partners also provided our questionnaire through their own networks. At the moment we got 11 questionnaires back. A couple of the participating medical specialists will be invited to two training and hospitation workshops in June (Potsdam) and November (Rostock).

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⁶ Brunne, V.: Wie Aids die Weltwirtschaft schwächt., in: Deutsches Ärzteblatt Jg. 104, Heft 43. 26. Oktober 2007, S. A2932 – A2934;

The following cooperation partners responded:

INSTITUTION	FIRST NAME	SURNAME	CITY	COUNTRY
HESED	Elena	Kabakchieva	Sofia	Bulgaria
National Institute for Health Develop-ment (NIHD)	Riina	Enke	Tallinn	Estonia
Public Woiwodship Hospital in Szczecin (SPWSZ)	Małgorzata	Kłys-Rachwalska	Szczecin	Poland
Romanian Association Against AIDS (ARAS)	Dr. Adrian	Abagiu	Bucharest	Romania
PRIMA	Assoc. Prof. Danica	Staneková	Bratislava	Slovakia
SALUS FOUNDATION	Maryana	Sluzhynska	Lviv	Ukraine

Table 1: Feedback of cooperation partners of BORDERNETwork (WP7)

The overall aim is to collect relevant data for country specific guidelines on HIV/AIDS and Hepatitis B/ co-infections. Important is the involvement of treatment specialists in a trans-border network, which seeks to improve education materials and find out clinical pathways, which are adaptable to the regional context and possibilities of the diagnostic and treatment system. Together with the experts on-site Work Package 7 tries to identify possible clinical pathways. The objective is not to establish a universal approach, which couldn't be used in the different regions with their specific demands. The contextual approach, which takes the country's specific medical conditions serious, tries to establish functional structures by integrating the specialists on site.

The following treatment specialists responded:

INSTITUTION	FIRST NAME	SURNAME	CITY	COUNTRY
Institute for Infectious Diseases - "Matei Bals"/ Bucharest	Dr. Adrian	Abagiu	Bucharest	Romania
Hospital for Infectious Diseases	Dr. Ramona Delia	Ionescu	Brasov	Romania
Constanta Regional Center for HIV/AIDS Surveillance and Monitoring	Prof. Dr. Sorin	Rugina	Constanta	Romania
West-Tallinn Central Hospital	Dr. Kai	Zilmer	Tallinn	Estonia
Narva Hospital	Dr. Dmitri	Jaaniste Narva		Estonia
Pärnu Hospital	Dr. Helve	Vestman Pärnu		Estonia
Clinic of Infectious Diseases at the University Hospital	Dr. Vakril	Nikolov	Plovdiv	Bulgaria
AIDS Department at the Specialized Hospital in Infectious and Parasitics Diseases	Dr. Toma	Tomov	Sofia	Bulgaria
Chief of the Dermatology and Venerology Department in Sofia	Dr. Mariela	Hitova	Sofia	Bulgaria
Out-patients Hepatology Clinic, Voivodship Hospital	Dr. Anita	Wnuk	Szczecin	Poland
University Kosice	Prof. Dr.	Jarcuska	Kosice	Slovakia
University Hospital Martin	Dr. Lukas	Murajda	Martin	Slovakia

Table 2: Feedback of treatment centres of BORDERNETwork (WP7)

EPIDEMIOLOGY: Current State of the Epidemic I. HIV/AIDS

A. PREVALENCE

The project BORDERNETwork regards 5 East- and Southeast-European countries (Bulgaria, Estonia, Poland, Romania and Slovakia) of the European Union and one country which is

Country	Population ⁷	Reported Number of Persons living with HIV/AIDS in 2009 ⁸	Estimated Number of Persons living with HIV/AIDS in 2009 ⁹	Estimated adult HIV prevalence rate (aged 15-49) in 2009 ¹⁰
Bulgaria	7.497.000	1.109	3.800 ¹¹	0,1
Estonia	1.339.000	7.320	11.500	1,2
Germany	82.057.000	54.000 ¹²	67.000 ¹³	0,1
Poland	38.038.000	12.757	100.000	0,1
Romania	21.190.000	16.162	50.000	0,1
Slovak Republic	5.412.000	443 ¹⁴	1.250	< 0,1
Ukraine	45.433.000	180.000	440.000	1,1

Table 3: Overview about the epidemiological situation in selected countries of CEE and SEE

⁷ http://www.un.org/esa/population/publications/population-hiv2010/population-hiv2010chart.pdf (27.02.2011).

⁸ http://www.unaids.org/en/dataanalysis/monitoringcountryprogress/2010progressreportssubmitted bycountries/ (27.02.2011)

⁹ Reply of BORDERNETwork cooperation partners 2010

¹⁰ http://www.unicef.org/infobycountry/ (28.02.2011)

¹¹lbid

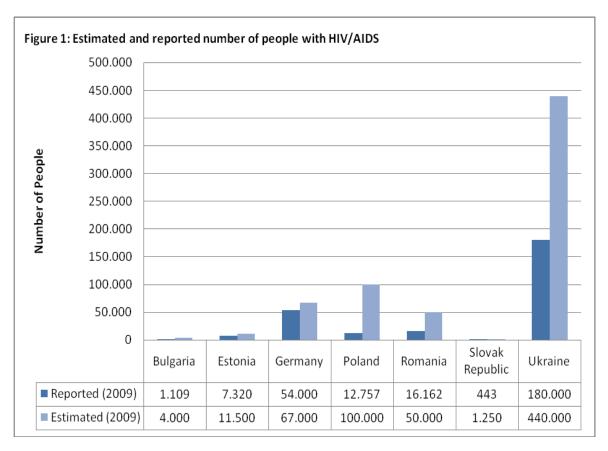
¹² Robert Koch-Institut: Epidemiologisches Bulletin 46/2010, p. 458

¹³ Ibid.

¹⁴ Source: BORDERNETwork Questionnaire for Cooperation Partners

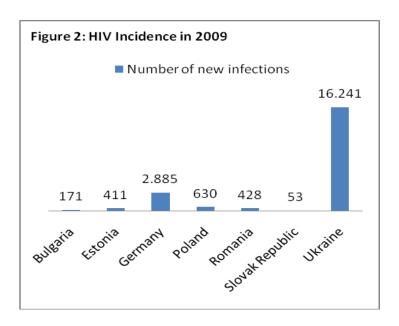
not part of the European Union (Ukraine). The spread of HIV/AIDS and other STIs differs in the regarded regions (see Table 3). While countries like Bulgaria, Poland, Germany, Romania and Slovak Republic have a low prevalence rate (0.1), countries like Estonia and Ukraine have a high prevalence rate (>1.0). Estonia developed a HIV/AIDS epidemic which is dramatic. As a country with a small population and in the immediate vicinity of the high prevalence country Russia (adult prevalence: 1.1), Estonia is hard affected by the HIV/AIDS epidemic.

The big difference between reported and estimated values is an indicator for the weakness of the national surveillance systems. In Poland the estimated number of people who are living with HIV and AIDS is 10 times higher than the official reported number of persons. In Bulgaria, Romania, Slovak Republic and Ukraine the estimated number is 2-3 times higher than the reported number of people with HIV/AIDS.



B. INCIDENCE

In the beginning of the new century the number of diagnosed infections increased rapidly in Europe. Now the number of new infections in the monitored countries is relatively stable. Since 2005, the picture of the development of HIV/AIDS in Europe changed and varied more than before.

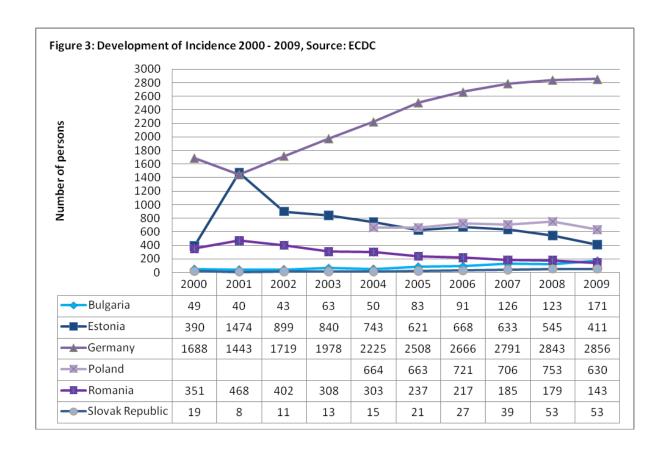


The number of new diagnoses stabilized (e.g. Poland and Germany), decreased (e.g. Estonia, Romania) or increased on a low level (Bulgaria, Slovak Republic). With 2.885 cases Germany had the most new diagnoses of HIV/AIDS in 2009. Poland (630), Romania (428) and Estonia (411) reported under 700 diagnoses. In Bulgaria and Slovak Republic the number of new infections stabilized below 200 cases, but doubled from 2005 (Bulgaria: 83 / Slovakia: 21) to 2009 (Bulgaria: 171 / Slovakia: 53). ¹⁵ The incidence data ¹⁶ only marks the year of the diagnosis. The infection often happened years before the diagnosis of HIV, so a gap between the year of the infection and the year of the diagnosis is too big. HIV is often diagnosed too late after the infection, when first AIDS typical diseases developed and the patient's immune system collapses. In this stage therapy is very difficult to affected conduct, **AIDS** people often don't recover and

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¹⁵ European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 24ff.

See URL: http://www.ecdc.europa.eu/en/publications/Publications/101129_SUR_HIV_2009.pdf
See URL: http://www.unaids.org/en/dataanalysis/monitoringcountryprogress/
2010progressreportssubmittedbycountries/

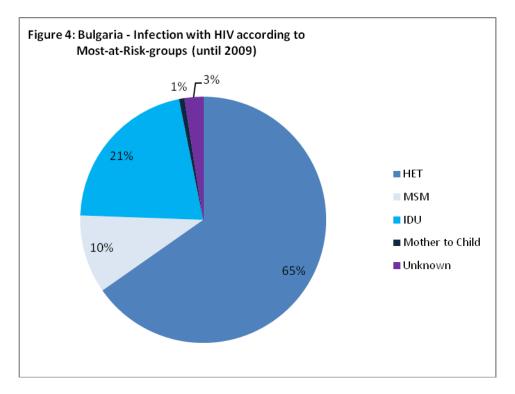


C. INFECTION WITH HIV ACCORDING TO MOST-AT-RISK-GROUPS

The spread of HIV is based on transmission ways, which are in every country very different pronounced. It is possible to divide the monitored countries in two different types. First in countries where HIV/AIDS is transmitted by intravenuous drug use and the sharing of needles and syrings, that is Estonia, Poland and Ukraine. Secondly countries where HIV/AIDS is transmitted by sexual intercourse and sexual practices with high risk. In Germany and Slovakia the biggest Most-at-Risk populations are men, who have sex with men. In Bulgaria and Romania the number of people who infected themselves by heterosexual contacts is very high. Also a change in the percentage of different tranmission ways is remarkable. While in countries like Germany, Romania and Ukraine the Most-at-Risk-groups are very stable, these groups in Bulgaria, Poland and Estonia changed it's proportion.

1. BULGARIA¹⁷

In Bulgaria the majority (65%) of all infections until 2009 with HIV/AIDS occurs through heterosexual intercourse. 21 % infected themselve by intravenuous drug use. 10% of all persons who are affected by HIV/AIDS belong to the group of men who have sex with men. It is possible, that a large number of people, who were registered as heterosexual persons, infected themselves by using intravenuous drugs or by homosexual contacts. Maybe legislative or moral restrictions are leading these people to hide their risky behaviour. Especially marginalized out-groups of Bulgaria, e.g. the Roma Community, covers the way of transmission to avoid punishment and social exclusion.



In 2009 the statistic draws another picture of the proportion of Most-at-Risk-groups. Now the percentage of IDU and heterosexual persons is nearly the same. With 43% the number of persons who infected themselves by intravenuous drug use is 3 % higher than the infection by heterosexual intercourse (40%)

The rate of MSM increased from 10% (average until 2009) to 16% of new infections in the field of men, who have sex with men. It is possible, that the Most-at-Risk groups will differ more in the coming years. So the increasing rates of MSM and IDUs will decrease the infection of heterosexual persons. The rate of MSM will rise because of the male sexwork community of Roma boys who work in Western Europe and come back to Bulgaira with an infection of HIV or other STDs.

¹⁷ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 32 ff.

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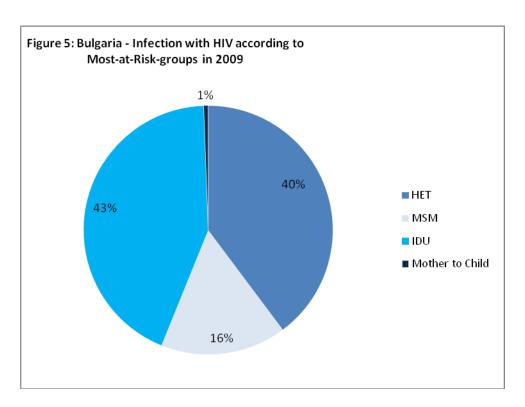
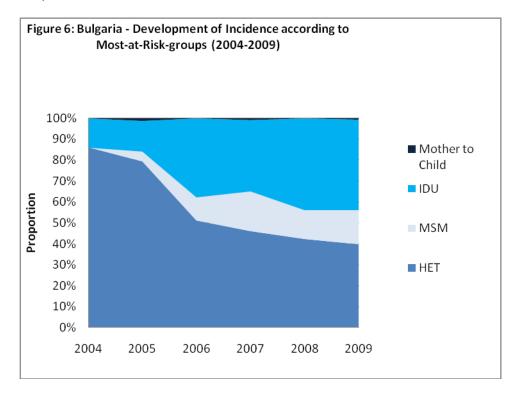
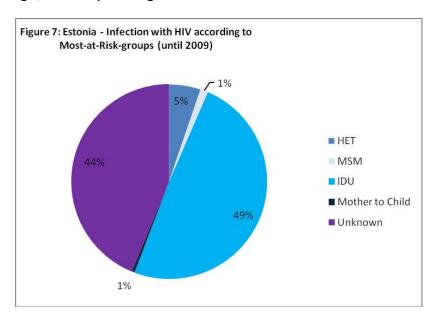


Figure 6 shows the continuous change in the transmission ways and Most-at-Risk-Groups. The beholder sees how the rate of heterosexual infections decreased from 2004 (85%) to 2009 (40%). In the same period the number of persons who infected themselves by intravenuous drug use exploded from nearly 15% in 2004 to 43% in 2009. Bulgaria is a special case in the comparison, because the proportion of transmission ways has changed dramatically.

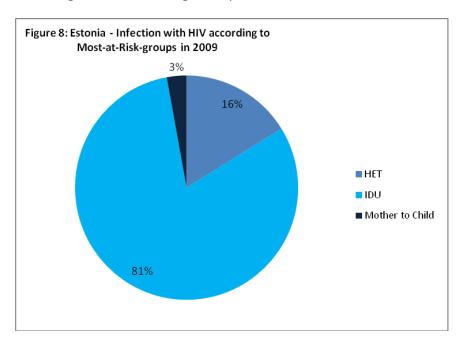


2. ESTONIA¹⁸

At a first glance, the high number of unknown infection ways attracts the attention of the viewer. Almost all reviewed countries have a large number of people who are not ascribable to one of the known Most- at-Risk groups. But on the other hand the number of IDUs is so high, that they ermerge with 49%.



By eliminating the unknown cases, the percentage of HIV positive persons with an IDU problematic rises to 88%. Only 11% of infections cause from sexual intercourse (homosexual/ heterosexual). Along with Poland and the Ukraine, in Estonia the problems of intravenuous drug use have the largest impact.

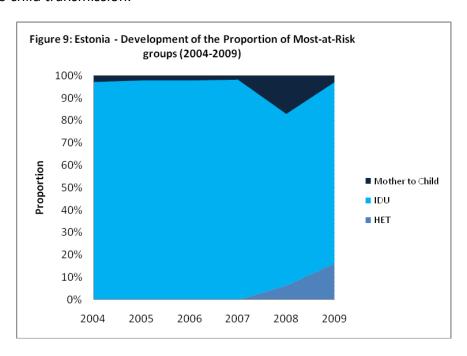


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 $^{^{18}}$ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 32 ff.

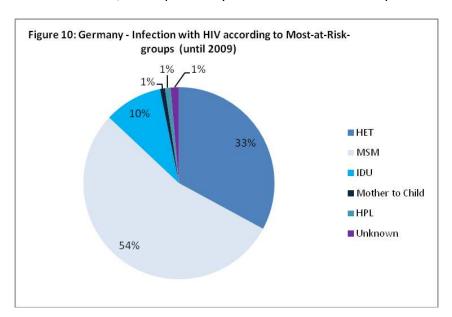
This trend doesn't change by widening the period of observation. Only the number of HIV infections by heterosexual contacts increased. Should emerge it in the coming years, that the number of persons who get their infection by heterosexual risky practices increases, this increasing could be indicative of the transmission of HIV/AIDS from the fringe of the Estonian society into the general population. Young men who are injecting drugs are in a highly active phase of sexuality. Also the need for starting a family and to produce children is higher in the group of young people who are infected with HIV/AIDS and other sexual transmitted diseases.

81 % of new infections with HIV in 2009 resulted from intravenuous drug use. The number of persons who infected themselves by heterosexual intercourse increased from 5 % average to 16% in the year 2009. About 3 percent of new HIV infections are related to mother to child transmission.



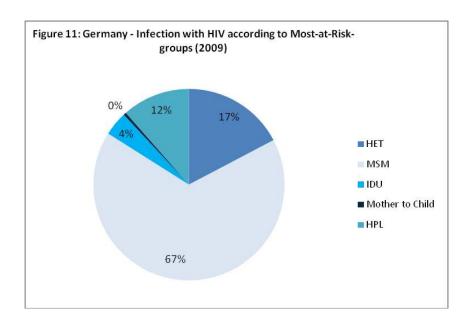
3. GERMANY¹⁹

With an estimated number of about 67.000 people, who are living with HIV/AIDS in Germany, the number of infected persons is high. But due to the large number of inhabitants Germany is a country with a low prevalence rate. Germany is a country in which the infection with HIV/AIDS spreads by transmission via sexual practices.

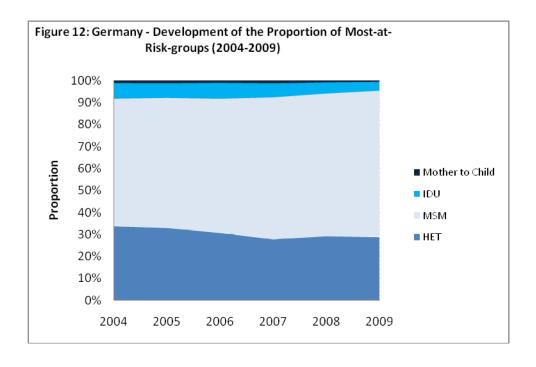


The majority of infected people belongs to the group of men who have sex with men. Through high risk and unprotected sex they often get their infection. The rate of infected people who are heterosexual is one third. The group of heterosexual persons in Germany is divided into two groups: persons from high prevalence countries and heterosexual persons. By comparing the Most-at-Risk-Groups (average 2000-09) with the incidence rate of 2009, it occurs that the rate of MSM increased from the average (54%) to 68%. In the same period the number of persons who infected themselve with HIV/AIDS by using intravenuous drugs decreased continuously(from an average of 10% to 4% in 2009).

¹⁹ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 32 ff.

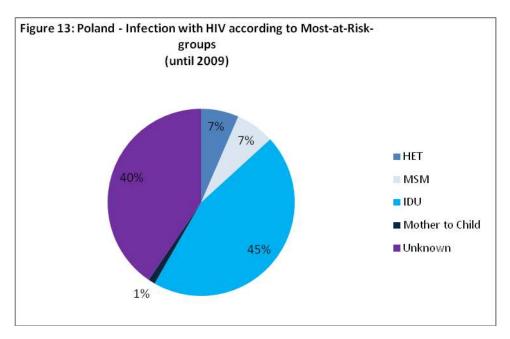


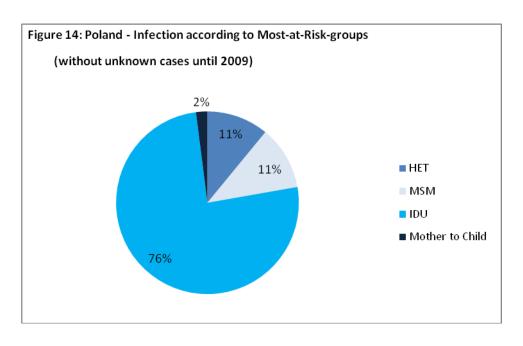
Intravenuous drug use and the upcoming problem of HIV/AIDS coincided in the middle of the 1980s and developed until the beginning of the 90s of the 20th century. Since the 90s the number of infected persons with a MSM background increased continuously . Despite the changes in the proportion of Most-at-Risk-Groups, the situation in Germany is stable. The vast majority of infected persons got their infection by having unprotected sex.



4. POLAND²⁰

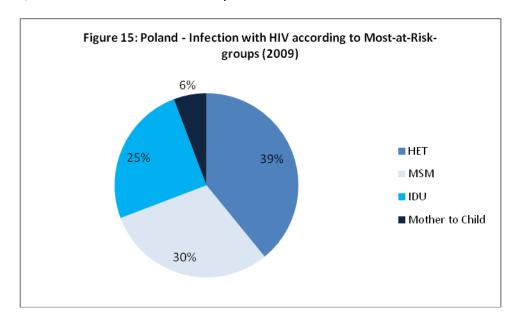
The majority of people living with HIV/AIDS in Poland is the group of IDUs. The number of HIV-infections, which are not relatable to a tranmission way is very high (40%). Without the not relatable number of people, 3 out of 4 persons infected themselves with the HI virus by using non-steril needles and syringes. The Most-at-Risk-groups with sexual transmission ways are relativly small. Only 22% got their infection by having sex with another person (11%MSM / 11% hetero).

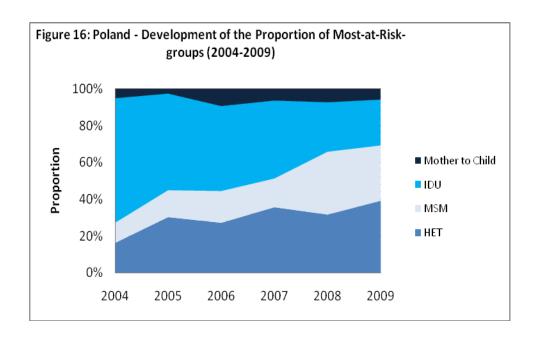




 $^{^{20}}$ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 32 ff.

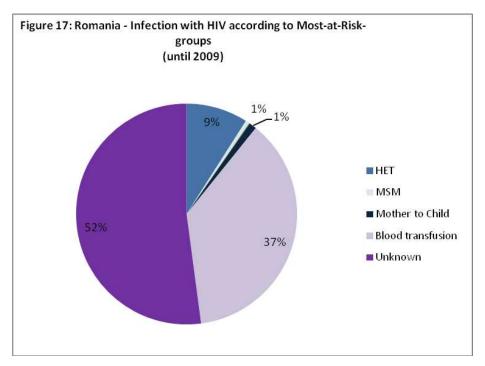
By viewing 2009, the proportion of Most-at-Risk-groups changed. Now only 1 of 4 persons got their infection by injecting drugs and using non-steril materials. In the same period the number of persons, where the infection is related to sexual contacts increased: 39% heterosexual contacts / 30% homosexual contacts. It is possible that the high number of persons who are not relatable to any risk group, depends on moral and legal restriction in Poland. By comparing the single years its remarkable that the number of persons who got their infection by intravenuous druguse decreased while the rate of people with a HIV infection, which arises from unsafe sex practices.

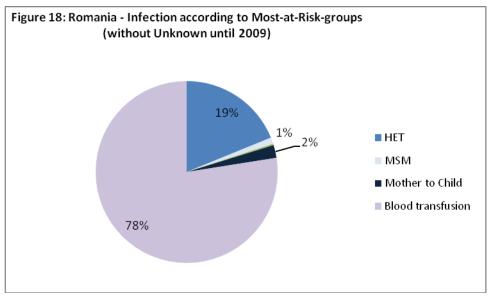




Romania²¹

Romania is a special case in the reviewed countries. The number of persons who got their infections by blood transfusion is a very noticeable fact. In the stalinistic Ceausescu era were a lot of young children infected by blood transfusions. Because the state tried to strengthen physical weaknesses of childs by transfusion fresh blood. This blood was contaminated with the HI virus. In the meanwhile a lot of infected children died, but a majority of people who are affected by HIV is between 20-30 years old.



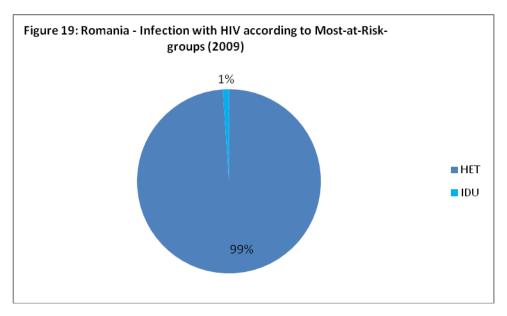


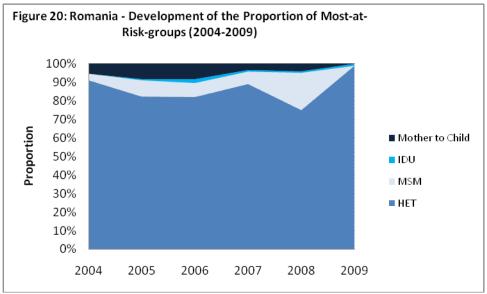
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 $^{^{21}}$ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010 , p. 32 ff.

For this reason the spread of HIV/AIDS in 2009 is caused by unsafe heterosexual contacts. The men and women, who became infected as child, are in an age with a high rate of sexual activities.

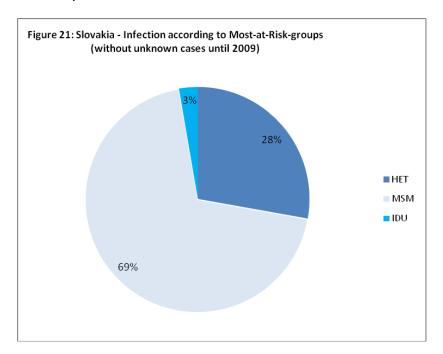
Figure 20 shows the proportion of transmission ways. This proportion is very stable. In Romania, the dominance was infected heterosexual transmission ways (minimum 80% of new infections, 99% in 2009: see figure 19). It seems that the other transmission ways (MSM, IDU) play no relevant role.



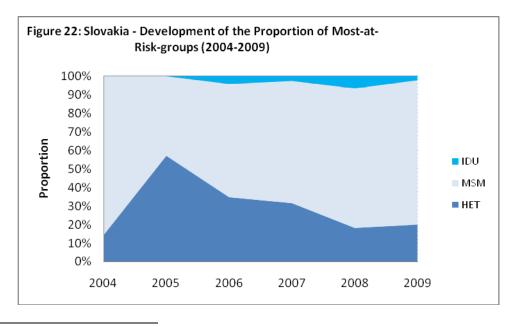


Slovak Republic²²

The Slovak Republic is similar to Germany. The most cases of new infections (78% in 2009) with HIV are from the group of men who have sex with men. The development of the transmission ways is stable. Only a small number of persons is affected by HIV/AIDS in Slovakia. The group of IDUs plays no role. Almost every new infection relates to unprotected and unsafe sexual practices. But the rate of MSM with an infection with HIV increased continuously.



The number of new infections with HIV doubled from 2006 (27) to 2009 (53) and increased on a relatively low niveau.

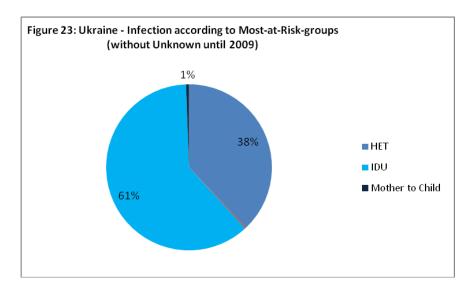


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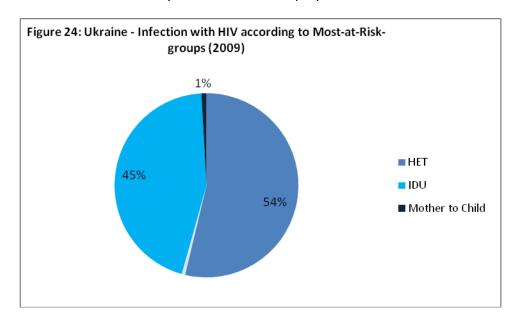
 $^{^{22}}$ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010 , p. 32 ff.

Ukraine²³

Ukraine is the most affected by the HIV/AIDS epidemic. 180.000 persons are infected with the HI virus. One quarter of the 180.000 infected persons are not relatable to any risk group. That is very high and means that the surveillance system in Ukraine is very weak. The group of injecting drug users is the most vulnerable group in Ukraine.



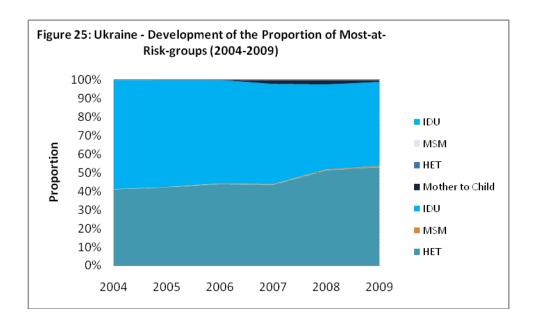
Other groups like MSM play no relevant role. By deleting the unknow cases of persons, who can not be related to any risk group, the dominance of persons with a drug related background is very noticeable. 61% of new infections until 2009 are injecting drug users. 38% of the new infections is related to unsafe heterosexual practices. The other transmission ways like unprotected homosexual intercourse, mother-to-child-transmission or transmission by blood transfusion play no relevant role.



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²³ Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 32 ff.

In 2009 the number of infections by heterosexual intercourse became more important. The rate of new infections, which results of unprotected heterosexual intercourse increased from 38% (average until 2009) to 54% in 2009. It seems that the epidemic makes an advance into the general population. Often intravenuous drug user work in the field of sexwork to finance their addiction, so the HIV/AIDS epidemic reached the general population by the indirect way of prostitution and unprotected sexual practices. This trend seems to emerge slowly, but it will be the next step of the generalized HIV/AIDS epidemic in the Ukraine. The low number of MSM is a signal that this risk group is covered eventually as heterosexual transmission. Like other East- and Southeast-European countries it is possible, that the MSM scene is punished by the legislative and normative value system.



D. AIDS CASES AND AIDS DEATHS²⁴

With 37.000 people Ukraine is the country with the most people who are suffering from AIDS. In the regarded countries of the European Union Romania is affected hard by AIDS. With 11.682 people, the majority of people living with HIV is suffering from AIDS (2 out of 3 infected persons). In Poland every fifth person, who is infected with the HI-virus, has reached the advanced stage of AIDS. In the other countries the rate of people who are suffering from AIDS is relativley low. In general the number of people in 2009, who died of AIDS was decreasing (Bulgaria: 2, Estonia: 0, Germany: 57, Poland: 34, Romania: 39, Slovakia: 2 and Ukraine: 21).

Country	Number with people with AIDS in 2009	Number of people died of AIDS in 2009
Bulgaria	no data	2
Estonia	290	0
Germany	760	57
Poland	2.500	34
Romania	11.682	39
Slovakia	56	2
Ukraine	37.000	21

Table 4: AIDS Cases and AIDS Deaths in 2009. Source ECDC 2010

Since the millenium year 2000 the number of people who developed the stage of AIDS decreased in a period of one year continuously. Only Bulgaria doubled its AIDS affected people (2000: 16 cases / 2009: 30 cases) on a low level. Germany and Romania divided the number of AIDS cases into four. The Ukraine also decreased the number of people suffering from AIDS in a rapid way.

Country	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Bulgaria	16	14	13	13	22	19	16	22	29	30
Estonia	3	2	6	10	29	29	32	57	61	38
Germany	821	754	711	674	717	683	667	597	486	226
Poland	126	132	124	145	176	152	163	134	160	76
Romania	599	445	370	382	337	328	283	279	224	114
Slovakia	5	5	2	2	2	3	4	6	1	4
Ukraine	903	1070	1593	2108	2948	4360	4922	1491	1104	140

Table 5: AIDS cases 2000-09. Source ECDC 2010

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²⁴ Source: Source: BORDERNETwork Questionnaire for Treatment Centres; European Centre for Disease Prevention and Control (ECDC): HIV/AIDS surveillance in Europe 2009, Stockholm 2010, p. 66 ff.

E. TREATMENT OF HIV/ AIDS²⁵

2009
327
1263
40000
4434
8402
< 100
11000

Table 6: Persons getting treatment in 2009

The treatment landscape differs in the monitored countries extremely. While in Germany 74% of people who are infected with the HI virus are getting a treatment, in Ukraine only 6% participate in a treatment. With 30% in Bulgaria, 17% in Estonia, 35% in Poland and less than 23% in Slovakia the majority of people who are infected with HIV get no treatment. With 52%, Romania covered a greater number of infected people with a antiretroviral treatment than the other countries.

²⁵ Source: BORDERNETwork Questionnaire for Cooperation Partners; United Nations. Department of Economics and Social Affairs / Population Division; UNGASS 2010

II. HEPATITIS B (HBV)²⁶

Hepatitis B is a serious problem in the European Union. The most affected countries are Poland (1.400.000), Romania (1.200.000) and Germany (492.300). Because of the high incidence rate (9,9 cases per 100.000 between 2006-2008) in Bulgaria the number of people who are affected by Hepatitis B is propably much higher. The number of the infections in the period between 2006 and 2008 was the highest in Bulgaria (9,9 cases per 100.000). With 5,1 cases per 100.000 inhabitants in Romania and 3,5 cases per 100.000 inhabitants in Estonia these countries are in the midfield of the reviewed incidence rate of the countries. Germany and Slovakia have a low prevalence rate (0,6%). Data on Hepatitis B in case of the Ukraine are not available.

Country	No. Of Persons with chronic HBV estimated	Prevalence rate	Incidence 2006-08, cases per 100.000	HBV/HIV Co infection estimated
Bulgaria	no data	no data	9,9	no data
Estonia	60.000	4,5	3,5	no data
Germany	492.300	0,6	1,2	no data
Poland	1.400.000	3,7	1,1	~10.000
Romania	1.200.000	5,6	5,1	~10.000 / 2.400 reported
Slovakia	32.474	0,6	2,1	no data
Ukraine	no data	no data	no data	no data

Table 7: HEPATITIS B IN CEE AND SEE

It can also be mentioned that data on Hepatitis B and HIV coinfections are hardly available. There are only estimated numbers of persons with a HBV/HIV coinfection in Poland (10.000 cases) and Romania (10.000 cases). There are no data available, how the Hepatitis B virus emerges, e.g. as chronic HBeAg positive or HBeAg negative Hepatitis with or without zirrhosis, and which transmission ways and risk groups are the dominant factors for the spread of the Hepatitis B infection in the reviewed countries.

neighbourhood.pdf

Source: BORDERNETwork Questionnaire for Cooperation Partners;

 $[\]label{lem:url:http://ecdc.europa.eu/en/publications/Publications/101012_TER_HepBandC_survey.pdf; \\ URL: http://ecdc.europa.eu/en/publications/Publications/TER_100914_Hep_B_C\%20_EU_$

URL: http://www.oecd-ilibrary.org/docserver/download/fulltext/8110161e.pdf?expires= 1303822435&id=id&accname=guest&checksum=638F8FE72D3EDB86D3E94A5FC8EB6DDC

III. HEPATITIS C (HCV)²⁷

From reported European countries where data are available, Romania, Germany and Poland have a high number of persons with a chronic HCV infection. In Romania estimated 1.000.000 people are infected with Hepatitis C. Almost 5% of the whole population of Romania is infected with Hepatitis C.

Country	Number of persons with chronic HCV estimated	HIV/HCV coinfected in %, end 2006	Number of persons with HIV/HCV-coinfection estimated.		
Bulgaria	100.000	10	400		
Estonia	12.000	70	6500 -8.000		
Germany	500.000	35	23.450		
Poland	570.000	20	20.000 - 60.000		
Romania	1.000.000	5	1.000 - 2.500		
Slovakia	no data	5	60		
Ukraine	no data	80	352.000		

Table 8: Hepatis V in CEE and SEE

The Hepatitis C epidemic in Eastern and South-Eastern Europe is boosted by intravenous drug use. Table 8 shows this dramatic interaction. In countries with a high number of illicit drug users like Estonia and Ukraine the possibility to suffer from a HIV/HCV coinfection is also very high. In Estonia at least 70% of all people who are living with HIV/AIDS are coinfected with Hepatitis C. In Ukraine at least 80% are HIV/HCV coinfected. Germany and Poland are in the midfield of this development. In Germany approximately 35% of persons with HIV/AIDS are coinfected with Hepatitis C, while in Poland 20% of PLWH are HIV/HCV coinfected. While there is a large number of persons with a Hepatitis C infection in Bulgaria and Romania, there are only 10 and 5% reported with an HIV/HCV coinfection.

On the one hand one reason could be that the number of illicit drug users is relatively low (see below), on the other hand data could be underreported, because EuroSida had published 2005 the number of 46,9% prevalence of Hepatitis C in HIV population in Eastern Europe (Rockstroh et al. J inf Dis 192; 992-1002).

²⁷ Source: BORDERNETwork Questionnaire for Cooperation Partners;

URL: http://ecdc.europa.eu/en/publications/Publications/101012_TER_HepBandC_survey.pdf; URL: http://ecdc.europa.eu/en/publications/Publications/TER_100914_Hep_B_C%20_EU_neighbourhood.pdf

URL: http://www.oecd-ilibrary.org/docserver/download/fulltext/8110161e.pdf?expires= 1303822435&id=id&accname=guest&checksum=638F8FE72D3EDB86D3E94A5FC8EB6DDC URL: http://www.unaids.ru/files/Hepatitis and HIV Moscow eng.pdf

DIAGNOSTIC AND TREATMENT: Results of the Survey

We have got response to our questionnaires mostly from HIV treatment centres:

3 times from Romania, 2 from Estonia, 1 from Poland, 2 from Slovakia, and 2 from Bulgarian HIV treatment Centres. The last one from Bulgaria is a Dermatological – Venerological Outpatient Centre.

1	Romania	Infectious Diseases Hospital Brasov; Rodica Silaghi
2	Romania	National Institute for Infectious Diseases, Bucharest; Adrian
		O. Abagiu
3	Romania	Irina Magdalena Dumitru, Ovidius University Constanta,
		Faculty of Medicine, Constanta
4	Estonia	West-Tallinn Central Hospital; Dr. Kai Zilmer, Tallinn
5	Estonia	Dr. Dimitri Jaaniste, Narva-Hospital, Narva
6	Poland	Dr. Anita Wnuk, Department of Infectious Diseases,
		Pomeranian Medical University, Szczecin
7	Slovakia	Prof. Dr. Jarcuska and Mrs. Mgr Katarina Cároková,
		University Kosice
8	Slovakia	Dr. Lukas Murajda, Clinic of Infectiology and Travel
		Medicine, University Hospital, Martin
9	Bulgaria	Dr. Nikolov, Department of Infectious Diseases, University
		Hospital, Plovdiv
10	Bulgaria	Dr. Toma Tomov Hospital for Infectious Diseases, Sofia
11	Bulgaria	Dr. Mariela Hitova, Dermatology and Venerology Out
		Patient Clinic, Sofia

Table 9: Respondents of BORDERNETwork Questionnaire for Treatment Centres

I. ANALYSIS OF HIV DIAGNOSTIC²⁸

First we have asked for possibilities in HIV diagnostics (Rapid Test, ELISA, anti-HIV Western blot and HIV PCR-quantity).

The HIV rapid test is not so important, it is used for instance in special situations like voluntary counselling and testing (VCT) or post exposure prophylaxis (PEP), but in many resource limited countries it is still the only diagnostic possibility for HIV.

The ELISA is the screening test for HIV antibodies with very high sensitivity and a good specificity, but every reactive ELISA should be confirmed with the HIV-Western Blot.

The measurement of viral load with a very sensitive PCR technique is very important and absolutely essential for the treatment success control.

HIV	Re	Romania			onia	Poland	Slovakia		Bulgaria		а	
Centres	1	2	3	4	5	6	7	8	9	10	11	
Rapid Test	O	Х	Х	Х	Х	0	Х	0	0	Х	Х	
ELISA	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
Western Blot	х	Х	х	Х	Х	Х	х	0	Х	Х	0	
PCR quantity	Х	Х	Х	Х	x *	Х	Х	Х	?	Х	0	
	* viral load determined by reference laboratory											

Table 10: Possibilities for HIV Diagnostics

All 10 treatment centres are able to diagnose and conform an HIV infection. With the measurement of HIV quantity with PCR they have also one important condition to manage therapy of HIV infection in a good clinical practice.

²⁸ Source: BORDERNETwork Questionnaire for Treatment Centres

II. ANALYSIS OF HEPATITIS B DIAGNOSTICS²⁹

For management of Hepatitis B there is need for detection of antibodies like anti-HBc and anti-HBe and also for the detection of parts of the virus directly, like HBsAg, HBeAg and the most important thing HBVDNA quantity.

The first criterion for successful therapy is the stop of complete viral replication. In this case HBVDNA decreases below the detection level.

The second criterion for a successful therapy is seroconversion from HBeAg to anti-HBe and from HBsAg to anti-HBs.

HBV	R	oman	ia	Esto	nia	Poland	Slov	Slovakia		Bulgaria		
Centres	1	2	3	4	5	6	7	8	9	10	11	
HBs Ag	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	
Anti HBc	Х	Х	Х	Х	0	Х	Х	Х	Х	?	0	
Hbe Ag	0	Х	Х	Х	Х	Х	Х	х	Х	?	0	
Anti HBe	0	Х	Х	Х	0	Х	Х	Х	Х	Х	0	
HBV DNA	0	Х	Х	Х	0	Х	Х	Х	Х	Х	0	
Diagnoses in 2009	50	15	92	no data	9	180	25	no data 201 0:6	56	no dat a	no dat a	
HIV/HBV coinfect- ions 2009	no dat a	1	4	no data	1	2	0	no data 201 0:5	2	no dat a	no dat a	

Table 11: Possibilities for HBV Diagnostics

All 10 treatment centres can diagnose Hepatitis B infection, and 8 centres have with the possibility of measurement of HBVDNA the condition for managing the treatment.

The number of diagnoses ranges 2009 between 15 and 180 cases.

The number of co-infections seems to be low with about 1 to 10%.

²⁹ Source: BORDERNETwork Questionnaire for Treatment Centres

III. ANALYSIS OF HEPATITIS C DIAGNOSTICS³⁰

The diagnosis of Hepatitis starts with antibody detection. Primary we use the anti-HCV ELISA as screening test. It is very sensitive but sometimes false reactive. Every reactive HCV screening test has to be confirmed with the Immunoblot or Westernblot.

The HCV PCR is necessary if the confirmation test is positive. A positive PCR for HCVRNA demonstrates the viral replication in case of acute or chronic Hepatitis C. If the HCV PCR is more than 6 month positive the chronic Hepatitis C is confirmed.

For management of therapy there is also a need for examination of the HCV Genotype and the measurement of viral concentration in the blood. The examination of viral load before starting treatment and after 4, 12 and 24 weeks is very import for the decision to continue or to stop treatment with pegylated interferon and ribavirin.

HCV	F	loman	ia	Esto	nia	Poland	Slov	akia	В	Bulgaria	a
Centres	1	2	3	4	5	6	7	8	9	10	11
Anti HCV	Х	Х	Х	х	0	Х	Х	Х	Х	Х	0
ELISA											
Anti HCV	0	0	0	Х	Х	0	Х	0	0	no	0
Western										dat	
Blot										a	
HCV RNA	0	no	0	no	0	Х	Χ	х	Х	no	0
qualitive		dat		data						dat	
		a								a	
HCV RNA	0	Χ	Х	Х	0	Х	Х	О	0	no	0
quantitive										dat	
										a	
HCV	0	no	0	X	0	Х	Х	О	0	no	0
Genotype		dat								dat	
		а								а	
Diagnoses								no		no	
in 2009	60	25	71	no	23	230	35	data	15	dat	0
	00		, _	data		230	33	201	13	a	
								0:6		<u> </u>	
HIV/HCV	no	no						no		no	
coinfect-	dat	dat	0	no	12	15	1	data	17*	dat	0
ions 2009	a	a	Ū	data		10	_	201	-,	a	Ū
								0:1			
									* not	explair	nable

Table 12: Possibilities for HCV Diagnostics

33

³⁰ Source: BORDERNETwork Questionnaire for Treatment Centres

Nine centres can carry out a screening test or confirmation test for diagnosis of Hepatitis C infection. Seven Centres can measure the virus directly with PCR, and three centres can measure the Genotype and quantity of the virus as necessary conditions for therapy.

The number of diagnosis of HCV infections in 2009 ranges between 15 and 230 cases. There are no data from Romanian centres regarding HIV/HCV co-infections. In other centres the number of co-infections ranges from 1 to 17 cases in 2009.

SUMMARY OF TREATMENT POSSIBILITIES

HIV:

All HIV treatment centres are able to treat patient with different classes of HIV drugs regarding to EACS-recommendations in the first regimen.

Nine centres meet the European guidelines regarding to start ART depending on the number of CD4 cells below 350 cells per μ l, one Slovakian centre starts with CD4 cells below 300.

Hepatitis B:

Several medications are approved for the treatment of chronic Hepatitis B virus infection: Interferon alfa, pegylated Interferon alfa-2a, Adefovir, Entecavir, Lamivudin, Telbivudine, and Tenofovir.

In former time many HIV/HBV co infected patients had been treated with Lamivudin as a component of Combivir. The result was a selection of Lamivudin-resistent HBV strains in many patients, because after four years therapy with Lamivudin about 70% of HBV patients develop such drug resistance. That's why Lamivudin should not be given as first choice.

Entecavir is a drug with high antiretroviral activity but can select the mutation M184V in HIV. So it could be used only in coinfected patients if there is an effective antiretroviral therapy with complete HIV suppression. But there are different interactions between Entecavir and antiretroviral drugs. The same situation applies to Telbivudin. Entecavir and Telbivudin should be used only in special circumstances.

The only anti HBV drugs that could be used without interference to HIV are Adefovir and pegylated interferons, but Adefovir has a low viral activity against HBV. The use of pegylated interferon depends on special predictive markers and conditions and is connected with a lot of side effects and it has a very low chance of success.

Tenofovir has the greatest antiviral potency in terms of HBVDNA suppression. In HIV treatment it is co-formulated with Emtricitabin as Truvada. Emtricitabin is another drug with activity also against HBV. That's why Truvada is the preferred drug for HIV/HBV coinfected patients.

In summary four of the ten centres have Tenofovir or Truvada. Four centres have Entecavir and two centres have only Lamivudin available.

Hepatitis C:

Treatment in chronic Hepatitis C with pegylated interferon and Ribavirin is possible in nine from ten treatment centres.

A condition for management of therapy is the possibility to carry out the complete serological and viral HCV diagnostics including HCV genotype and HCV quantity with very sensitive methods. Here we have a difference which we will discuss with our partners during countryside visits and following workshops.

Outlook:

Chronic infections with Hepatitis B and Hepatitis C represent the most significant cause of liver disease in HIV patients. These coinfections accelerate the clinical course of liver disease; more patients develop cirrhosis and hepatocellular carcinoma in faster time. The mortality regarding to liver disease is distinctly increased in HIV coinfected patients. Therefore the adequate treatment of Hepatitis B and C is now a priority in HIV coinfected patients.

In the first line successful management of Hepatitis B and C coinfection depends on a good laboratory diagnosis of all HBV and HCV markers both viral antibodies and viral antigens.

We have succeeded in getting cooperation with the WHO Collaborating Centre for Quality Assurance and Standardization in Laboratory Medicine for Virology (http://www.instandev.de/en/about-instand-ev/who-collaborating-centre/).

The head of this virological laboratory Prof. Heinz Zeichhardt has promised a close cooperation und support for the laboratories in our partner countries. All laboratories can take part free of charge in EQA-Survey (External – Quality – Assessment – Survey).

During the next meetings, workshops and country site visits we will start to establish these relations.

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Questionnaire for diagnostic and therapy of HIV/AIDS and Co-Infections (Hepatitis B/C)

Please send back to:	Stamp or Address of Institution
	Filled in by Mrs./Mr.:
Or send it via e-mail at: al@aidshilfe-potsdam.de	Country/Institution:
·	Date:
Survey: HIV	/STI diagnostic and treatment
_	refer your answers to the year 2009)
1. General Overview: HIV/AIDS	
How many HIV positive persons are repersons	ported in your country?
What is the <u>estimated</u> number of persons	ons, who live with HIV in your country?
How many of these persons are suffering persons	ing from Aids?
What is the number of HIV-infected permanant person	rsons getting a treatment?
How many treatment-centres existing i treatment-centres: 1	n your country? Please tell us the names and contacts of the
2	
3	
2. Overview: Hepatitis B	
How many persons with a chronic Hep	atitis B-Infection are living in your your country?
Reported number of persons:	Estimated number of persons:
How many persons with a HIV/HBV Co	o-Infection have been reported? Estimated number of persons:
Which serological tests can be conduc	ted for the characterization of a Hepatitis B- infection?
□ HBs Antigen □ HBe Antigen □ Anti HBe □ Anti HBs	□ Anti HBc







2	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country Num	ies on HIV and STI? patitis B □ Hepatitis C y? nber of tests	
2. 3. 4. Additional inform Do you have an obligation HIV/Aids Chlamydia How many tests were personal HIV Chlamydia Gonorrhoea Hepatitis B Hepatitis C	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
2	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
2	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
2. 4. Additional inform Do you have an obligation HIV/Aids Chlamydia How many tests were personal HIV Chlamydia	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
2. 3. 4. Additional inform Do you have an obligation HIV/Aids Chlamydia How many tests were personal HIV	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
2. 4. Additional inform Do you have an obligation HIV/Aids Chlamydia How many tests were pe	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
2. 3. 4. Additional inform Do you have an obligation HIV/Aids Chlamydia How many tests were pe	nations ion to notify the authorit a □ Gonorrhoea □ Heperformed in your country	ies on HIV and STI? patitis B □ Hepatitis C	C □ Syphilis
234. Additional inform Do you have an obligation	nations ion to notify the authorit	ies on HIV and STI?	
234. Additional inform	nations		
2			
2			
2			
Are there treatment cent 1.	•		
available? □ Yes □ No	□ Don't know		
	for the treatment of ch	ronic Hepatitis C with	peg-Interferon and Ribavirin
□ HCV Genotype			1- ~
Which serological tests o □ Anti HCV screening	can be conducted for th Anti HCV We		a chronic Hepatitis C- infection □ HCV RNA quantity
Reported number of pers	sons:	Estimated number of	persons:
How many persons with	a HIV/HCV Co-Infectio	n are reported?	
Reported number of pers	sons	Estimated number of	persons:
How many persons with		nfection are living in v	our country?
3. Overview: Hepatit	tis C		
4			
Are there treatment cent	tres for Hepatis B?		
□ Tenofovir Are there treatment cent			
⊐ Tenofovir Are there treatment cent	□ Adefovir tres for Hepatis B?	□ Entecavir	







Is a statistic about the distribution of risk-groups available? Which at-risk groups are affected at most by an infection with HIV and STI?

	HIV			STI
At-risk group	Number	% Ratio of at-risk group	Number	% Ratio of at- risk group
Heterosexual persons				
Men, who have Sex with men				
Persons from high prevalence				
countries				
Sexworkers				
Intravenous drug-users				
Receivers of blood				
transfusions/Hemophilia				
Mother-to-Child-Transmission				

What are the main transmission paths for HIV and STI?

		HIV		STI
Transmission path	Number	% Ratio of transmission paths	Number	% Ration of transmission paths
Unprotected sexual				
intercourse of				
heterosexual persons				
Unprotected sexual				
intercourse of MSM				
Intravenous drug-use				
Mother-to-Child-				
Transmission				
Blood transfusion				

Who pays for the therapy of HIV/Aids?
Who pays for the therapy of STI?
Are there groups, who have no access to diagnostic and therapy? If yes, which groups:
Is a screening for pregnant women available? If yes, for which infections: □ HIV □ Chlamydia □ Hepatitis B □ Syphilis
Are there any guidelines in your country for the diagnostic and treatment of HIV/Aids available? Please tell us your data sources:
Are there any guidelines in your country for the diagnostic and treatment of HIV/HBV- and HIV/HCV-Co-Infections available? Please tell us your data sources:





Questionnaire for diagnostic & treatment of HIV/AIDS and Co-infections

(for Treatment Centres)

Please send back to:		Stamp or Addre	ess of Institution:
AIDS-Hilfe Potsdam e.V.			
Kastanienallee 27			
14471 Potsdam			
Germany			
Germany			
or via email at al@aidshilfe-potsda	<u>am.de</u>		
	Filled in by M	Irs. /Mr	
	Date:		
Survey: P	ractice of HIV/STI diag (Please refer your answers to		eatment
	HIV		
Do you perform HIV tests in yo	our centre? Yes		No 🗌
Who pays for the HIV tests?	Public Health insurance Government	Private Health Patient	insurance NGO Other
What kind of HIV tests do you	use and how often?		
HIV-rapid test	Yes 🗌	No 🗌	Don't know
HIV-antibody test (ELISA)	Yes	No 🗌	Don't know
HIV-antibody test (Western Blo	ot, Immunofluorescence-test)		
	Yes	No 🗌	Don't know
HIV-PCR quantity	Yes	No 🗌	Don't know
Which test do you generally us	se for screening?		
Which test do you generally us	e for confirmation?	·	
How many new HIV infections	did you diagnose in 2009?		
What is the first-line antiretro	viral therapy for patients with	h HIV ?	
On which criteria do you cons	ider starting antiretroviral th	nerapy?	









Hepatitis B

Do you perform Hepatitis B- tests in you	ur centre?	Yes	No 🔛				
What kind of Hepatitis B- tests do you use and how often?							
HBs- AG (antigen)	Yes	No 🗌	Don't know				
Anti HBc (antibody)	Yes	No 🗌	Don't know				
HBe-AG (antigen)	Yes	No 🗌	Don't know				
Anti HBe (antibody)	Yes	No 🗌	Don't know				
HBV-DNA quantitative	Yes 🗌	No 🗌	Don't know				
How many new Hepatitis B infections	did you diagnose in 20	09?					
How many co-infections Hepatitis B a	and HIV did you diagno	se in 2009?					
Which drugs for Hepatitis B- therapy of	do you use?						
Alpha-Interferon	Peg Interferon	Lamivu	ıdin 🗌				
Adenofovir	Telbivudin	Enteca	vir				
Tenofovir							
	Hepatitis C						
Do you perform Hepatitis C- tests in yo	•	Yes	No 🗌				
Do you perform Hepatitis C- tests in you	ur centre?	Yes 🗌	No 🗌				
	ur centre? use and how often?	_	No Don't know				
What kind of Hepatitis C- tests do you	ur centre? use and how often? Yes	_	_				
What kind of Hepatitis C- tests do you Anti-HCV (antibody test (ELISA))	ur centre? use and how often? Yes	No 🗌	Don't know				
What kind of Hepatitis C- tests do you Anti-HCV (antibody test (ELISA)) Anti- HCV (antibody test (Western Blot)	ur centre? use and how often? Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No	Don't know Don't know				
What kind of Hepatitis C- tests do you Anti-HCV (antibody test (ELISA)) Anti- HCV (antibody test (Western Blot) HCV RNA qualitative	ur centre? use and how often? Yes Yes Yes Yes	No No No No	Don't know Don't know Don't know				
What kind of Hepatitis C- tests do you Anti-HCV (antibody test (ELISA)) Anti- HCV (antibody test (Western Blot) HCV RNA qualitative HCV RNA quantitative	ur centre? use and how often? Yes Yes Yes Yes Yes Yes Yes	No	Don't know Don't				
What kind of Hepatitis C- tests do you Anti-HCV (antibody test (ELISA)) Anti- HCV (antibody test (Western Blot) HCV RNA qualitative HCV RNA quantitative HCV Genotype	ur centre? use and how often? Yes Yes Yes Yes Yes Yes did you diagnose in 20	No	Don't know Don't				
What kind of Hepatitis C- tests do you Anti-HCV (antibody test (ELISA)) Anti- HCV (antibody test (Western Blot) HCV RNA qualitative HCV RNA quantitative HCV Genotype How many new Hepatitis C infections	ur centre? use and how often? Yes Yes Yes Yes Yes did you diagnose in 20 and HIV did you diagnose	No	Don't know Don't				









Chlamydia

Do you perform chlamyd What kind of chlamydia	-		Yes	No 🔛			
Antigen detection: DIF	i- lesis do you	Yes	No	Don't know			
(direct immunofluore	scence)	_	w many percent of tests'	<u>—</u>			
Antigen detection: EIA		Yes 🗌	No 🗌	Don't know			
(enzyme immunoessay)		<i>if yes</i> , in how	→ if yes, in how many percent of tests? %				
Hybridization test		Yes 🗌	No 🗌	Don't know			
(Using specifically marked DN	IA/RNA)		w many percent of tests?	? %			
Amplification test		Yes 🗌	No 🗌	Don't know			
(NAAT, PCR, LCR, SDA, TMA	A)	<i>if yes</i> , in how	w many percent of tests?	%			
Antibody test		Yes 🗌	No 🗌	Don't know			
-	→ <i>if ves</i> , in hov	v many percent o	f tests? % which	n method?			
<u>Culture</u>	,	Yes		Don't know			
<u>outuro</u>		_	w many percent of tests'				
ı	<i>if yes</i> , in wh	ich cases?					
Please tick which chlan	nydia test you	use for each sp	ecimen				
	Rapid test	Hybridization	Amplification test (PCR, LCR, SDA, TMA)	Culture			
Cervical smear			(1 OTI, EOTI, ODTI, TIMIT)				
Vaginal smear							
Urine Urathral amagr							
Urethral smear							
Anal smear Pharyngeal smear							
		Gonorri	hoea				
Do you perform gonorrh	oea- tests in y	our centre?	Yes 🗌	No 🗌			
What kind of gonorrhoe	ea- tests do yo	ou use to diagnos	se an acute infection?				
Microscopy		Yes 🗌	No 🗌	Don't know			
(Methylene blue/Gram-stain)		<u>—</u>	w many percent of tests				
Hybridization test		Yes 🗌	No 🗌	Don't know			
(Using specifically marked DN	IA/RNA)	→ if yes, in how many percent of tests? %					









Amplification test		Yes	No [Don't know 🔛
(NAAT, PCR, LCR, SDA, TMA	A)	→ if yes, in how many percent of tests? %		
Culture		Yes 🗌	No 🗌 🏻 I	Don't know
		— ⊢ if ves in how ma	iny percent of tests?	<u> </u>
		, ii yes, iii iiow iiia	iny percent or tests: _	/6
Do you perform antibio	tic resistance	hecks for gonorrho	ea?	
		Yes	No 🗌 💢	Don't know
		— Lifuacin haw man	y percent of tests?	9/
		<i>→ıı ye</i> s, ın now man	ly percent or tests?	70
Do you perform gonorrh	oea- tests in as	ymptomatic patier	nts? Yes	☐ No ☐
	ĺ	<i>if ve</i> s in which c	ases?	
		<i>" y 00</i> , " W'''0'' 0'		
Please tick which gono	rrhoea test vou	use for each spec i	imen	
Tiodoo tiok Willon gollor	Microscopy	Hybridization	Amplification test	Culture
Cervical smear		11,5110.124.1011	(PCR, LCR, SDA, TMA)	- Cantaire
Vaginal smear				
Urine				
Urethral smear				
Anal smear				
Pharyngeal smear				
		Syphilis		
Do you perform syphilis	tests in your ce	entre? Yes	No 🔛	
What kind of syphilis- t	est do you use	and how often?		
Darkfield examination		Yes 🗌	No 🗌 🏻 I	Don't know
(dark field microscopy, immun	oflorescence)	<i>if yes</i> , ir	n how many percent of	tests? %
Serological test		Yes 🗌	No 🗌 💢	Don't know
		<i>→ if yes</i> , ir	n how many percent of	tests? %
Please further specify:				
 Screening test 				
- TPHA/TPPA/N	ИНА-ТР	Yes 🗌	No 🗌 🏻 [Don't know
- EIA/ELISA		Yes 🗌	No 🗌 🏻 [Don't know
- VDRL/RPR/MI	PR/Cardiolipin	Yes 🗌	No 🗌 🏻 [Don't know
	•			
o Confirmation tes	<u>st</u>			
- FTA-Abs		Yes 🗌	No 🗌 🏻 I	Don't know 🗌
- IgG-Immunobl	ot	Yes 🗌	No 🗌 🏻 I	Don't know 🗌
- EIA/ELISA		Yes	No 🗌 🛚 [Don't know
- TPHA/TPPA/M	1НА-ТР	Yes 🗌	=	Don't know
		. 55		- · · · · · · · · · · · · · · · · · · ·









0	Test to base decision of therapy or	n					
	- 19-S-IgM-FTA-Abs-test	Yes 🗌	No 🗌	Don't know			
	- IgM-EIA	Yes 🗌	No 🗌	Don't know			
	- IgM-Immunoblot	Yes 🗌	No 🗌	Don't know			
	- VDRL/RPR/ MPR/Cardiolipin	Yes 🗌	No 🗌	Don't know			
0	Follow-up test						
	- TPHA/TPPA	Yes 🗌	No 🗌	Don't know			
	- 19-S-IgM-FTA-Abs-Test	Yes 🗌	No 🗌	Don't know			
	- IgM-EIA	Yes 🗌	No 🗌	Don't know			
	- VDRL/RPR/Cardiolipin	Yes 🗌	No 🗌	Don't know			
Do you	Do you perform syphilis- tests in asymptomatic patients ? Yes No □ if yes, in which cases?						
Thank you for your participation!							
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	the author (AIDS-Hilfe Potsdam e.V).						



