

**Ministry of Health of Ukraine**

**Ukrainian AIDS Prevention and Control Center**

**SI “Institute of Epidemiology and Infectious Diseases  
named after L.V. Gromashevsky”, at AMS Ukraine**

**Central Sanitary and Epidemiological Station of the MOH of Ukraine**

**Kyiv City AIDS Prevention and Control Center**

# **HIV Infection in Ukraine**

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## **Brief Review of Epidemiological Situation with HIV/AIDS in Ukraine by 01.01.2009**

From 1987 till 01.01.2009 the **officially registered cumulative total number of HIV infection cases** in Ukraine was **141,277** HIV infected citizens of Ukraine, including **26,804** AIDS cases. **15,000** patients died of AIDS-related diseases.

By 01.01.2009 **91,717** HIV infected people were under **medical follow-up**, including **10,410** patients with AIDS. HIV and AIDS prevalence rate amounted to **198.6** and **22.5** per 100,000 population respectively. The highest rates of HIV infection prevalence are still observed in Dnipropetrovsk (**455.2 per 100,000**), Odessa (**454.0**), Donetsk (**442.9**) and Mykolayiv (**434.3**) oblasts, city of Sevastopol (**334.8**) and AR Crimea (**268.6**).

The number of newly reported HIV infection cases has been annually growing since 1999. In 2008, **18,963 new HIV infection cases were registered** among the citizens of Ukraine; in 2007 - **17,669** and in 2006 – **16,078** such cases were reported.

**In 2008, HIV incidence rate in Ukraine was 40.9 per 100,000 compared to 38.0 in 2007 and 34.4 in 2006.** During 2006-2008 the rate of growth of this indicator had been declining by more than twice – from + 16.8 % to + 7.6 %.

The number of AIDS patients in Ukraine had been increasing annually till 2006. During 2002 – 2006 the rate of AIDS incidence grew from 2.8 to 10.1 per 100,000 population. Thanks to the introduction of a large-scale antiretroviral therapy, by the end of 2007 the country for the first time registered the decline in AIDS incidence from 10.1 per 100,000 population in 2006 to 9.8 per 100,000 population in 2007.

A positive declining trend in the number of new AIDS cases was observed in 2008: **4,380 new AIDS cases were reported**, including **74** among children under 14 years of age (in 2007 – **4,573** and **115**; in 2006 – **4,723** and **123**, correspondingly).

**The AIDS incidence rate in Ukraine in 2006 had a positive declining trend and was 9.5 per 100,000 population in 2008 (9.8 per 100,000 population in 2007 and 10.1 in 2006).** The rate of growth of this indicator was + 12.0% in 2006, - 3.0% in 2007 and -3.1% in 2008.

During the entire period of epidemiological surveillance over HIV infection in Ukraine the number of people, who died of AIDS-related diseases has been growing.

In 2002 – 2007 the rate of mortality of AIDS-related diseases increased from 1.7 to 5.4 per 100,000 population. It is noteworthy that during the same period the growth rate of mortality of AIDS-related diseases was gradually declining (+ **56 %** in 2003, + **41 %** in 2004, + **21 %** in 2005, + **11 %** in 2006 and + **4 %** in 2007).

In 2008 the epidemic of HIV infection **claimed the lives of 2,710 AIDS patients**, including 14 children.

**In 2008 the rate of mortality of AIDS-related diseases in Ukraine was 5.8 per 100,000 population compared to 5.4 in 2007 and 5.2 in 2006.** Unfortunately, in 2008 the five-year trend of a gradual decline of the growth rate of mortality of AIDS-related diseases had interrupted and in 2008 this indicator somewhat increased and amounted to + **7.4%**. The reasons of it should be further studied.

According to the statistical data, the share of HIV transmission through the injection of narcotic drugs in the structure of other HIV transmission routes continues to decrease on the background of a gradual growth of HIV infection through sexual intercourse.

**In 2008 the following structure of HIV infections in Ukraine was observed: parenteral (mostly with injections of narcotic drugs) – 37.0 %, sexual (mostly heterosexual route) – 41.9 %, children born to HIV infected mothers – 19.2%, unidentified transmission route – 1.9 %.**

From 1999 till 2006 inclusive the country has been experiencing an increase in the absolute number of injecting drug users (IDU) among new HIV infection cases, with the annual reduction of their share in the general number of new HIV infection cases in Ukraine. During recent 3 years practically similar number of HIV infected injecting drug users has been registered in Ukraine. In 2008 there were 7,009 officially registered HIV infected IDU; in 2007 the number of this cases was 7,127 and in 2006 – 7084, while their share in the structure of transmission routes was 37.0% in 2008, 40.1% in 2007 and 44.3% in 2006.

However, **according to the sentinel surveillance data**, the HIV infection epidemic in Ukraine is still concentrated in the most-at-risk groups.

Sentinel epidemiological surveillance performed in 2006 showed that injecting drug users comprise the largest share of HIV infected people (from 18.4 to 62.8 %), followed by commercial sex-workers (from 4.0 to 31.0%) and patients with sexually transmitted infections (from 0 to 5.7%). The highest levels of HIV infection among injecting drug users were reported in the cities of Poltava, Kyiv, Odessa, Simferopol and Mykolayiv – 62.8%, 61.2%, 54.7 %, 49.2 % and 46.0 %, correspondingly.

Sentinel epidemiological surveillance performed in 2007 established that the largest share of HIV infected people were also found among injecting drug users (from 24 to 55%), commercial sex-workers (from 8 to 32%) and patients with sexually transmitted infections (from 1.7% to 12.3%). The highest levels of HIV infection among injecting drug users were reported in the cities of Odessa, Simferopol and Mykolayiv – 55.2 %, 42.8 % and 42.5 %, correspondingly.

Sentinel epidemiological surveillance performed in 2008 showed the similar results – the largest share of HIV infected people were injecting drug users (from 5.5 to 81.9%) and commercial sex-workers (from 0% to 42%). As in previous years, the highest levels of HIV infection among injecting drug users were reported in the cities of Odessa, Simferopol and Mykolayiv – 38.9 %, 65.7 % and 81,9 %, correspondingly.

The data received from the sentinel surveillance studies correlate with the official statistics and confirm the high level of HIV infection among the most-at-risk groups.

So, in spite of the official statistics, that is indicating that the share of injecting drug users among the new HIV infection cases is declining, today we cannot speak about the suspension of the epidemic among injecting drug users, where the use of contaminated injecting equipment remains the key route for HIV transmission.

At the same time we can say, that according to the official case reporting during 3 recent years the country is observing the trend towards stabilization of the epidemic situation among IDU, which is confirmed by the data of sentinel surveillance studies in some cities (Kharkiv, Kherson and Cherkassy).

A growing share of heterosexual HIV transmission and the number of HIV infected women in child-bearing age contributed to the increased number of children born to HIV infected mothers. In 2008, there were registered **3,635** children born to HIV infected mothers (**3,430** children in 2007 and **2,822** children in 2006).

By 01.01.2009, according to the statistical data, there were **7,985** children born to HIV infected mothers, under medical follow-up in Ukraine, including **1,968** children with the established HIV infection diagnosis and **6,017** children awaiting the confirmation of HIV infection diagnosis.

In 2008, according to the seroepidemiological monitoring, there were **3,220,112** screening tests for HIV performed and **37,298** diagnoses were confirmed (in 2007 there were **2,866,728** tests made and **32 831** diagnoses confirmed). The total index of HIV infections per 100 screening tests made in 2008 was **1.16** compared to **1.15** in 2007 and **1.16** in 2006.

### **On the Case of HIV Infection with a Component of Donor Blood.**

The Ukrainian AIDS Prevention and Control Center received a message from Chernihiv Oblast AIDS Prevention and Control Center about the case of HIV infection of a recipient of erythrocytic mass transfusion in April 2008.

The donor, who was found to be the source of infection, was identified as HIV positive during his next blood donation. In April 2008, in addition to erythrocytic mass they also prepared dry and frozen plasma, which were removed from quarantine in September 2008 and tested for the presence of antibodies to HIV at the laboratory of Chernihiv Oblast Blood Transfusion Station and at the laboratory of viral hepatitis and HIV infection of the SI "Institute of Epidemiology and Infectious Diseases named after L.V. Gromashevsky", AMS Ukraine. When the samples were tested with the use of ELISA method, antibodies to HIV were identified in them. Application of the Western Blot method helped to identify the antibodies to all proteins of HIV-1, which corresponds to the picture of the established HIV infection. So, it can be concluded, that in April 2008 the blood donor was not in the stage of early seroconversion or recent HIV infection.

This case was reviewed only by the commission at the Chernihiv Department of Health. The following conclusion was made on the basis of the investigation: ***the patient was infected with the hemotransfusion of the washed blood erythrocytes due to false negative results of HIV test for antibodies to HIV with the use of test-kit DS-ELISA-HIV Ag/Ab s.3, produced by the SPE "Diagnostic Systems", Nizhny Novgorod, Russia.***

In the beginning of February 2009 the establishment of commission at the central level to investigate this case was being discussed.

**Table 1. Dynamics of Registration of New HIV Infections, AIDS Cases and Deaths of AIDS  
for the period of 1987 - 2008 in Ukraine**

HIV infected people	Years												
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	1987 - 2008
Number of people with the firstly established HIV infection diagnosis, total	8 934	8 590	5 830	6 216	7 009	8 761	10 013	12 494	13 786	16 094	17 687	18 973	<b>141 647</b>
including:													
- citizens of Ukraine	8 913	8 575	5 827	6 212	7 000	8 756	10 009	12 491	13 770	16 078	17 669	18 963	<b>141 277</b>
- foreign citizens	21	15	3	4	9	5	4	3	16	16	18	10	<b>370</b>
Number of people with the firstly established AIDS diagnosis, total:	193	399	586	648	868	1 356	1 916	2 745	4 220	4 729	4 575	4 386	<b>26 842</b>
including:													
- citizens of Ukraine	189	398	586	647	867	1 353	1 915	2 743	4 217	4 723	4 573	4 380	<b>26 804</b>
- foreign citizens	4	1	0	1	1	3	1	2	3	6	2	6	<b>38</b>
Number of people, who died of AIDS, total	85	150	253	415	474	837	1 285	1 775	2 188	2 425	2 508	2 714	<b>15 225</b>
including:													
- citizens of Ukraine	82	148	253	414	473	834	1 285	1 775	2 188	2 420	2 507	2 710	<b>15 200</b>
- foreign citizens	3	2	0	1	1	3	0	0	0	5	1	4	<b>25</b>

**Table 2. HIV Infection Incidence in Ukraine in 2006-2008**

Regions	2006			2007			2008		
	Abs. number	Per 100,000	Growth rate, %	Abs. number	Per 100,000	Growth rate, %	Abs. number	Per 100,000	Growth rate, %
<b>Ukraine</b>	<b>16,078</b>	<b>34.4</b>	<b>+ 16.8</b>	<b>17 669</b>	<b>38.0</b>	<b>+ 10.5</b>	<b>18,963</b>	<b>40.9</b>	<b>+ 7.6</b>
AR Crimea	804	40.6	- 10.1	959	48.6	+ 19.7	1,004	51.1	+ 5.1
Vinnitsa	324	19.1	+ 31.2	336	20.0	+ 4.6	311	18.6	- 7.0
Volyn	171	16.5	+ 9.6	209	20.1	+ 21.8	244	23.6	+ 17.4
Dnipropetrovsk	2,465	71.8	+ 20.5	2,668	78.2	+ 9.0	3,084	90.5	+ 15.7
Donetsk	3,608	78.4	+ 20.4	3,773	82.7	+ 5.5	3,992	87.8	+ 6.2
Zhitomyr	247	18.7	+ 9.8	266	20.3	+ 8.6	340	25.9	+ 27.6
Zakarpattia	22	1.8	- 38.9	43	3.5	+ 94.4	42	3.4	- 2.9
Zaporizhja	434	23.4	+ 8.2	454	24.7	+ 5.6	526	28.6	+ 15.8
Ivano-Frankivsk	71	5.1	- 4.1	97	7.0	+ 37.3	166	12.0	+ 71.4
Kyiv	497	28.3	+ 49.2	633	36.3	+ 28.3	700	40.3	+ 11.0
Kyrovograd	228	21.5	+ 31.8	269	25.7	+ 19.5	239	23.0	- 10.5
Luhansk	473	19.7	- 9.9	546	23.0	+ 16.8	678	28.7	+ 24.8
Lviv	242	9.4	+ 15.8	255	9.9	+ 5.3	315	12.4	+ 25.3
Mykolayiv	1,049	86.3	+ 30.8	1,167	96.6	+ 12.0	1,189	98.5	+ 2.0
Odessa	1,470	61.3	+ 9.0	1,704	71.2	+ 16.2	1,555	65.2	- 8.4
Poltava	293	18.9	- 2.7	386	25.2	+ 33.3	378	24.8	- 1.6
Rivne	105	9.1	+ 28.0	158	13.7	+ 50.5	216	18.7	+ 36.5
Sumy	145	11.9	+ 57.6	179	14.9	+ 25.2	184	15.3	+ 2.7
Ternopil	115	10.4	+ 76.9	123	11.2	+ 7.7	129	11.7	+ 4.5
Kharkiv	438	15.5	+ 10.1	453	16.2	+ 4.5	517	18.5	+ 14.2
Kherson	495	44.1	+ 51.4	550	49.4	+ 12.0	589	53.0	+ 7.3
Khmeltsky	295	21.6	+ 22.4	238	17.5	- 19.0	201	14.9	- 14.9
Cherkassy	331	24.8	+ 10.3	375	28.4	+ 14.5	357	27.1	- 4.6
Chernivtsi	45	5.0	- 27.4	67	7.4	+ 48.0	90	10.0	+ 35.1
Chernihiv	296	25.5	+ 25.4	349	30.5	+ 19.6	437	38.5	+ 26.2
Kyiv city	1,146	42.4	+ 12.1	1,183	43.4	+ 2.4	1,258	46.8	+ 7.8
Sevastopol city	269	70.9	+ 51.1	229	60.4	- 14.9	222	58.8	- 2.6

**Table 3. AIDS Incidence in Ukraine in 2006 - 2008**

Regions	2006			2007			2008		
	Abs. number	Per 100,000	Growth rate, %	Abs. number	Per 100,000	Growth rate, %	Abs. number	Per 100,000	Growth rate, %
<b>Ukraine</b>	<b>4,723</b>	<b>10.1</b>	<b>+ 12.0</b>	<b>4,573</b>	<b>9.8</b>	<b>- 3.0</b>	<b>4,380</b>	<b>9.5</b>	<b>- 3.1</b>
AR Crimea	192	9.7	- 17.9	227	11.5	+ 18.6	233	11.9	+ 3.5
Vinnitsa	103	6.1	+ 27.2	114	6.8	+ 11.5	117	7.0	+ 2.9
Volyn	53	5.1	+ 103.8	80	7.7	+ 51.0	77	7.4	- 3.9
Dnipropetrovsk	1,050	30.6	+ 35.0	715	21.0	- 31.4	782	23.0	+ 9.5
Donetsk	1,336	29.0	- 0.5	1,209	26.5	- 8.6	940	20.7	- 21.8
Zhitomyr	74	5.6	+ 8.8	84	6.4	+ 14.3	106	8.1	+ 26.6
Zakarpattia	6	0.5	- 33.3	3	0.2	- 60.0	5	0.4	+ 100.0
Zaporizhja	90	4.9	- 11.8	122	6.6	+ 34.7	133	7.2	+ 9.1
Ivano-Frankivsk	23	1.7	+ 187.5	17	1.2	- 29.4	29	2.1	+ 75.0
Kyiv	141	8.0	+ 48.4	217	12.4	+ 55.0	155	8.9	- 28.2
Kyrovograd	50	4.7	+ 284.6	48	4.6	- 2.1	59	5.7	+ 23.9
Luhansk	92	3.8	+ 37.3	156	6.6	+ 73.7	200	8.5	+ 28.8
Lviv	104	4.0	+ 141.9	75	2.9	- 27.5	114	4.5	+ 55.2
Mykolayiv	214	17.6	- 25.7	322	26.7	+ 51.7	109	9.0	- 66.3
Odessa	251	10.5	- 43.2	186	7.8	- 25.7	179	7.5	- 3.8
Poltava	124	8.0	+ 57.0	110	7.2	- 10.0	101	6.6	- 8.3
Rivne	17	1.5	+ 88.9	32	2.8	+ 86.7	25	2.2	- 21.4
Sumy	52	4.3	+ 147.6	14	1.2	- 72.1	52	4.3	+ 258.3
Ternopil	48	4.3	+ 242.9	46	4.2	- 2.3	32	2.9	- 40.0
Kharkiv	61	2.2	+ 45.2	73	2.6	+ 18.2	94	3.4	+ 30.8
Kherson	86	7.7	+ 41.0	63	5.7	- 26.0	79	7.1	+ 24.6
Khmelnitsky	68	5.0	+ 41.7	58	4.3	- 14.0	69	5.1	+ 18.6
Cherkassy	138	10.3	+ 46.8	161	12.2	+ 18.4	176	13.4	+ 9.8
Chernivtsi	40	4.4	+ 73.9	40	4.4	0	36	4.0	- 9.1
Chernihiv	50	4.3	+ 85.2	57	5.0	+ 16.3	70	6.2	+ 24.0
Kyiv city	151	5.6	+ 106.8	266	9.8	+ 75.0	345	12.8	+ 30.6
Sevastopol city	109	28.7	- 15.5	78	20.6	- 28.2	63	16.7	- 18.9

**Table 4. Mortality of AIDS-related Diseases in Ukraine in 2006-2008**

Regions	2006			2007			2008		
	Abs. number	Per 100,000	Growth rate, %	Abs. number	Per 100,000	Growth rate, %	Abs. number	Per 100,000	Growth rate, %
<b>Ukraine</b>	<b>2,420</b>	<b>5.2</b>	<b>+ 10.6</b>	<b>2,507</b>	<b>5.4</b>	<b>+ 3.8</b>	<b>2,710</b>	<b>5.8</b>	<b>+ 7.4</b>
AR Crimea	165	8.3	- 17.1	165	8.3	0	151	7.7	- 7.2
Vinnitsa	35	2.1	+ 25.0	40	2.4	+ 14.3	58	3.5	+ 45.8
Volyn	37	3.6	+ 48.0	38	3.7	+ 2.8	53	5.1	+ 37.8
Dnipropetrovsk	550	16.0	+ 59.0	426	12.4	- 22.5	529	15.5	+ 25.0
Donetsk	656	14.3	+ 15.5	741	16.1	+ 12.6	817	18.0	+ 11.8
Zhitomyr	38	2.9	+ 5.6	41	3.1	+ 6.9	53	4.0	+ 29.0
Zakarpattia	10	0.8	+ 100.0	4	0.3	- 62.5	3	0.2	- 33.3
Zaporizhja	63	3.4	- 30.8	75	4.0	+ 17.6	104	5.7	+ 42.5
Ivano-Frankivsk	5	0.4	0	8	0.6	+ 50.0	14	1.0	+ 66.7
Kyiv	63	3.6	+ 53.7	74	4.2	+ 16.7	66	3.8	- 9.5
Kyrovograd	13	1.2	+ 116.7	23	2.2	+ 83.3	15	1.4	- 36.4
Luhansk	70	2.9	+ 27.3	105	4.4	+ 51.7	138	5.8	+ 31.8
Lviv	36	1.4	+ 56.5	22	0.9	- 35.7	27	1.1	+ 22.2
Mykolayiv	107	8.8	- 37.4	163	13.4	+ 52.3	60	5.0	- 62.7
Odessa	144	6.0	- 47.6	110	4.6	- 23.3	95	4.0	- 13.0
Poltava	62	4.0	+ 47.6	67	4.3	+ 7.5	75	4.9	+ 14.0
Rivne	5	0.4	+ 66.7	7	0.6	+ 50.0	5	0.4	- 33.3
Sumy	10	0.8	+ 11.1	12	1.0	+ 25.0	12	1.0	0
Ternopil	3	0.3	- 72.7	3	0.3	0	3	0.3	0
Kharkiv	60	2.1	+ 66.7	57	2.0	- 4.8	70	2.5	+ 25.0
Kherson	47	4.2	+ 46.9	32	2.9	- 31.0	34	3.1	+ 6.9
Khmelnitsky	36	2.6	- 2.7	30	2.2	- 15.4	48	3.5	+ 59.1
Cherkassy	73	5.5	+ 19.7	88	6.6	+ 20.0	77	5.8	- 12.1
Chernivtsi	13	1.4	+ 225.0	21	2.3	+ 64.3	6	0.7	- 69.6
Chernihiv	12	1.0	+ 100.0	22	1.9	+ 90.0	29	2.6	+ 36.8
Kyiv city	64	2.4	+ 73.0	87	3.2	+ 33.3	119	4.4	+ 37.5
Sevastopol city	43	11.3	+ 19.4	46	12.1	+ 7.1	49	13.0	+ 7.4

**Table 5. HIV and AIDS Prevalence  
Among Citizens of Ukraine by 01.01.2009  
(by the data of regular medical registration, per 100,000 population)**

Regions	HIV infected	HIV infection prevalence	AIDS patients	AIDS prevalence
<b>Ukraine</b>	<b>91,717</b>	<b>198.6</b>	<b>10,410</b>	<b>22.5</b>
AR Crimea	5,270	268.6	621	31.6
Vinnitsa	1,299	78.0	246	14.8
Volyn	1,026	99.3	105	10.2
Dnipropetrovsk	15,453	455.2	1,641	48.3
Donetsk	20,045	442.9	2,716	60.0
Zhitomyr	1,285	98.4	183	14.0
Zakarpattia	154	12.4	17	1.4
Zaporizhja	2,387	130.3	143	7.8
Ivano-Frankivsk	374	27.1	33	2.4
Kyiv	2,525	145.8	408	23.6
Kyrovograd	1,047	101.3	94	9.1
Luhansk	2,998	127.5	149	6.3
Lviv	1,225	48.2	272	10.7
Mykolayiv	5,224	434.3	476	39.6
Odessa	10,821	454.0	1,172	49.2
Poltava	1,728	113.9	162	10.7
Rivne	693	60.2	67	5.8
Sumy	716	59.9	109	9.1
Ternopil	421	38.4	32	2.9
Kharkiv	1,760	63.3	53	1.9
Kherson	2,121	191.8	164	14.8
Khmelnitsky	1,557	115.6	123	9.1
Cherkassy	2,022	154.1	264	20.1
Chernivtsi	415	46.0	94	10.4
Chernihiv	1,651	146.4	140	12.4
Kyiv city	6,236	231.1	735	27.2
Sevastopol city	1,264	334.8	191	50.6

**Table 6. HIV transmission routes among the citizens of Ukraine during the period of 1987 - 2008**

HIV transmission routes	Years												
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	<b>1987-2008</b>
HIV infected people, total number	8 913	8 575	5 827	6 212	7 000	8 756	10 009	12 491	13 770	16 078	17 669	18 963	<b>141 277</b>
including those infected through sexual route	1 009	1 386	1 324	1 431	1 888	2 501	3 046	4 050	4 606	5 681	6 784	7 945	<b>42 816</b>
<i>of them through homosexual contacts</i>	2	1	1	4	3	2	3	9	20	35	48	65	<b>223</b>
<i>through heterosexual contacts</i>	1 007	1 385	1 323	1 427	1 885	2 499	3 043	4 041	4 586	5 646	6 736	7 880	<b>42 593</b>
parenteral route	7 448	6 517	3 774	3 881	3 967	4 589	4 819	5 779	6 282	7 134	7 088	7 015	<b>73 635</b>
<i>of them due to : injecting drug use</i>	7 448	6 516	3 771	3 881	3 964	4 587	4 815	5 778	6 270	7 127	7 084	7 009	<b>73 582</b>
<i>transfusion of blood products or components</i>	0	1	0	0	3	2	3	1	4	2	1	1	<b>22</b>
<i>transplantation of donor organs, cells, tissues, biological fluids</i>	0	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
<i>other medical manipulations</i>	0	0	3	0	0	0	0	0	3	0	0	0	<b>11</b>
<i>occupational infection</i>	0	0	0	0	0	0	0	1	1	0	0	0	<b>3</b>
<i>other non-medical interventions</i>									4	5	3	5	<b>17</b>
from HIV infected mother to child	196	378	527	727	914	1 371	1 830	2 273	2 498	2 822	3 430	3 635	<b>20 712</b>
unidentified transmission route	260	294	202	173	231	295	314	389	384	441	367	368	<b>4 114</b>

**Table 7. Officially registered HIV infected injecting drug users (IDU)  
injecting drug users (IDU)  
and their percentage of the total number  
of HIV infected Ukrainians**

Regions	1997		2006		2007		2008	
	IDU	%	IDU	%	IDU	%	IDU	%
<b>Ukraine</b>	<b>7,448</b>	<b>83.6</b>	<b>7,127</b>	<b>44.3</b>	<b>7,084</b>	<b>40.1</b>	<b>7,009</b>	<b>37.0</b>
AR Crimea	376	71.9	290	36.1	340	35.5	354	35.3
Vinnitsa	37	72.5	168	51.9	146	43.5	98	31.5
Volyn	90	94.7	77	45.0	62	29.7	71	29.1
Dnipropetrovsk	2,042	93.1	1,188	48.2	1,206	45.2	1,316	42.7
Donetsk	1,710	81.8	1,506	41.7	1,449	38.4	1,295	32.4
Zhitomyr	50	89.3	109	44.1	109	41.0	134	39.4
Zakarpattia	21	75.0	3	13.6	2	4.7	3	7.1
Zaporizhja	264	89.2	210	48.4	188	41.4	188	35.7
Ivano-Frankivsk	18	90.0	25	35.2	37	38.1	51	30.7
Kyiv	71	89.9	212	42.7	232	36.7	236	33.7
Kyrovograd	16	76.2	84	36.8	64	23.8	53	22.2
Luhansk	147	86.0	205	43.3	204	37.4	295	43.5
Lviv	51	82.3	144	59.5	124	48.6	155	49.2
Mykolayiv	268	85.6	438	41.8	471	40.4	454	38.2
Odessa	769	67.3	546	37.1	478	28.1	431	27.7
Poltava	213	93.0	137	46.8	181	46.9	152	40.2
Rivne	13	68.4	67	63.8	60	38.0	102	47.2
Sumy	19	82.6	68	46.9	82	45.8	55	29.9
Ternopil	30	85.7	89	77.4	61	49.6	68	52.7
Kharkiv	205	74.0	245	55.9	210	46.4	218	42.2
Kherson	64	71.9	231	46.7	273	49.6	233	39.6
Khmelnitsky	40	81.6	149	50.5	109	45.8	77	38.3
Cherkassy	188	82.5	114	34.4	169	45.1	134	37.5
Chernivtsi	80	94.1	13	28.9	18	26.9	19	21.1
Chernihiv	102	94.4	107	36.1	118	33.8	123	28.1
Kyiv city	458	90.7	574	50.1	591	50.0	597	47.5
Sevastopol city	106	85.5	128	47.6	100	43.7	97	43.7

**Table 8. Dynamics of registration of new HIV infection and AIDS cases, and deaths of AIDS-related diseases among children under 14 years of age in 1987 - 2008 in Ukraine (including children born to HIV infected mothers)**

Years	Children with the newly established HIV infection diagnosis,*			Children with the newly established AIDS diagnosis			Children, who died of AIDS		
	Absolute number	Per 100,000 of children population	Growth rate (%)	Absolute number	Per 100,000 of children population	Growth rate (%)	Absolute number	Per 100,000 of children population	Growth rate (%)
1987 - 1994	16			6			4		
1995	12	0.12		1	0.01		1	0.01	
1996	99	1.03	+ 758.3	10	0.10	+ 900.0	6	0.06	+ 500.0
1997	210	2.15	+ 108.7	4	0.04	- 60.0	4	0.04	- 33.3
1998	402	4.27	+ 98.6	14	0.15	+ 275.0	9	0.10	+150.0
1999	549	6.10	+ 42.9	15	0.17	+ 13.3	12	0.13	+ 30.0
2000	737	8.59	+ 40.8	13	0.15	- 11.8	9	0.10	- 23.1
2001	937	11.51	+ 34.0	30	0.37	+ 146.7	11	0.14	+ 40.0
2002	1,379	17.87	+ 55.3	47	0.61	+ 64.9	23	0.30	+ 114.3
2003	1,844	24.90	+ 39.3	68	0.92	+ 50.8	38	0.51	+ 70.0
2004	2,293	32.21	+ 29.4	96	1.35	+ 47.2	33	0.46	- 9.8
2005	2,516	35.30	+ 9.6	143	2.01	+ 48.4	36	0.51	+ 10.9
2006	2,834	41.21	+ 16.7	123	1.79	- 11.0	32	0.47	- 7.8
2007	3,449	52.20	+ 26.7	115	1.74	- 2.8	23	0.35	- 25.5
2008	3,649	55.68	+ 6.7	74	1.13	- 35.1	14	0.21	- 40.0
1987 - 2008	20,926			759			255		

\* including children born to HIV infected mothers

**Table 9. Officially Registered HIV Infected Children Born to HIV Infected Mothers in Ukraine**

Regions	New cases in 2008, abs. number			Were under the medical follow-up by 01.01.2009, abs. number		
	Children, born to HIV infected mothers	Patients with AIDS	Removed from the registration due to disappearance of antibodies to HIV in the child's blood	HIV infected		Patients with AIDS
				HIV diagnosis is confirmed	HIV diagnosis is to be confirmed	
<b>Ukraine</b>	<b>3,635</b>	<b>73</b>	<b>2,525</b>	<b>1,968</b>	<b>6,017</b>	<b>476</b>
AR Crimea	188	2	138	121	298	41
Vinnitsa	69	3	32	18	105	18
Volyn	50	0	22	28	77	6
Dnipropetrovsk	609	19	413	404	876	101
Donetsk	681	11	486	321	1,108	57
Zhitomyr	72	3	37	24	112	8
Zakarpattia	11	2	8	5	18	4
Zaporizhja	76	2	48	42	116	9
Ivano-Frankivsk	24	1	10	11	36	4
Kyiv	164	1	90	68	251	24
Kyrovograd	73	0	44	37	128	3
Luhansk	113	1	86	47	155	3
Lviv	64	3	38	16	122	4
Mykolayiv	229	2	180	133	355	10
Odessa	329	4	273	282	908	43
Poltava	79	1	37	41	115	6
Rivne	28	2	19	6	51	4
Sumy	33	2	21	12	47	6
Ternopil	14	1	4	2	24	2
Kharkiv	92	0	69	40	133	8
Kherson	101	1	74	44	148	15
Khmelnitsky	45	6	27	33	69	31
Cherkassy	70	1	61	54	111	11
Chernivtsi	22	1	20	4	26	2
Chernihiv	107	0	69	48	149	19
Kyiv city	253	4	182	106	412	27
Sevastopol city	39	0	37	21	67	10

**Table 10. HIV-related Conditions and Diseases among HIV Infected Citizens of Ukraine**

Name of indicator	Code by the ICD - 10	Taken under follow-up during 2008 with the newly established diagnosis	
		HIV infection (regardless of the infection stage)	AIDS
HIV-related conditions and diseases	B20 – B 24, Z21	18,963	4,380
including:			
Acute HIV infection syndrome	B23.0	19	
Asymptomatic HIV infection	Z21	10,222	
Persisting generalized lymphadenopathy (PGL)	B23.1	2,444	
Disseminated HIV infection	B20-B23	3,717	
AIDS-indicator diseases (AIDS)	B20.0-20.9, B21.0-21.2, B21.8-21.9, B22.0-22.2, B23.2	2,081	4,380
HIV that causes other confirmed conditions	B 23.8	443	
HIV related disease, unidentified	B 24	37	

**Table 11. AIDS-indicator Diseases (AIDS)**

Name of indicator	Taken under follow-up during 2008 with the newly established diagnosis		Remains under follow-up by 01.01.2009 with HIV infection diagnosis (regardless of the disease stage)
	HIV infection (regardless of the infection stage)	AIDS	
AIDS-indicator diseases (AIDS)	2,081	4,380	10,410
including:			
Pulmonary tuberculosis	896	1,691	4,643
Extrapulmonary tuberculosis	288	710	1,521
Infections caused by M.kansasii, disseminated or extrapulmonary	0	31	2
Other diseases caused by mycobacteria, except M. tuberculosis, disseminated or extrapulmonary	2	6	14
Bacterial infections, multiple or recurrent	183	411	666
Salmonellosis septicemia, recurrent, except the one caused by S.typhi murium	1	1	4
CMV-infection in the patients with the lesions of internal organs, except liver, spleen or lymph nodes	8	21	58
CMV-rhoeinitis with the loss of sight	2	8	17
Herpetic infection with chronic ulcers, which are not cured during 1 month, or with the lesions of bronchi, lungs or esophagus	19	32	121
Progressing multiple leukoencephalopathy	11	36	34
Candidiasis of trachea, bronchi or lungs	37	137	259
Candidiasis of esophagus	74	157	578
Cryptococcosis, extrapulmonary	12	21	17
Histoplasmosis, disseminated or extrapulmonary	1	1	1
Coccidioidomycosis, disseminated or extrapulmonary	0	1	2
Pneumocystis pneumonia	33	76	147
Cryptosporidiosis with diarrhea that lasts over 1 month	1	1	3
Brain toxoplasmosis	36	72	90
Isosporosis with diarrhea that lasts over 1 month	0	0	0
Opportunistic infections of unclear etiology	16	63	116
Recurrent pneumonias	59	96	294
Kaposi sarcoma	13	22	52
Burkitt lymphoma	0	4	6
Immunoblast lymphoma	7	8	10
Brain lymphoma (primary)	7	13	9
Cervical invasive cancer	14	28	44
Lymphoma of unclear etiology	6	9	12
HIV-related encephalopathy	87	206	473
Lymphoid interstitial pneumonia	2	4	5
HIV-related wasting syndrome (slim-disease, weight loss)	206	409	860
CD4 < 200/mcl without the presence of AIDS-indicator diseases (in adults)	58	87	270
CD4 < 20 % without the presence of AIDS-indicator diseases (in children < 18 months)	1	4	20
CD4 < 15 % without the presence of AIDS-indicator diseases (in children > 18 months)	1	14	62

**Table 12. Dynamics of Official Registration and Removal from Medical Follow-up of HIV Infected Ukrainian Citizens in 1987 - 2008**

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	1987 - 2008
Total taken under medical follow-up in reporting year	9,415	8,805	6,208	6,370	7,221	9,026	10,453	12,979	14,321	16,471	18139	19,405	<b>145,910</b>
<i>Including people with the newly established HIV infection diagnosis</i>	8,913	8,575	5,827	6,212	7,000	8,756	10,009	12,491	13,700	16,078	1, 669	18,963	<b>141,277</b>
Removed from the medical follow-up in reporting year	726	1,373	2,089	2,542	2,596	3,102	4,353	5,519	6,208	7,401	8,356	9,429	<b>54,176</b>
Remain under follow-up by the end of reporting year	15,287	22,719	26,838	30,666	35,291	41,215	47,315	54,775	62,888	71,958	81,741	91,717	

**Table 13. Reasons for the Removal from the Medical Follow-up of Officially Registered HIV Infected Ukrainian Citizens in 1987 - 2008**

<b>Reasons for removal from the medical follow-up</b>	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	1987 - 2008
Death of AIDS	82	148	253	414	473	834	1,285	1,775	2,188	2,420	2,507	2,710	<b>15,200</b>
Death of other disease	245	436	815	1,088	1,045	1,078	1,310	1,465	1,396	1,542	1,972	2,390	<b>15,218</b>
Disappearance of antibodies to HIV in the child's blood	41	45	22	285	344	391	700	949	1,481	1,953	2,218	2,525	<b>10,968</b>
Change of place of residence	186	230	381	158	221	270	444	488	681	763	865	1,161	<b>5,741</b>
Other reasons	172	514	618	597	513	529	614	842	462	723	794	643	<b>7,049</b>
<b>TOTAL</b>	726	1,373	2,089	2,542	2,596	3,102	4,353	5,519	6,208	7,401	8,356	9,429	<b>54,176</b>

**Table 14. Results of Sero-epidemiological Monitoring of HIV Infected People in Ukraine in 2006 - 2008**

Codes	HIV tested groups	2006			2007			2008		
		tested	positive	%	tested	positive	%	tested	positive	%
100	Citizens of Ukraine – total, including by individual codes	2,540,579	29,591	1.16	2,866,728	32,831	1.15	3,213,126	37,273	1.16
101	People, who had heterosexual relations with HIV infected people	5,949	1,094	15.47	7,061	1 321	18.71	8,210	1,646	20.05
102	Injecting drug users	33,094	5,457	16.49	33,341	5,111	15.33	35,748	4,952	13.85
104	People with identified sexually transmitted infections	46,961	718	1.53	52,809	791	1.50	55,063	957	1.74
105	People, who have numerous unprotected sexual contacts	15,573	349	2.24	19,489	412	2.11	30,126	686	2.28
106	Army recruits	13,812	12	0.09	14,858	11	0.07	16,961	19	0.11
108	Blood donors	839,337	1,067	0.13	883,215	1,138	0.13	880,307	1,140	0.13
109	Pregnant women	981,766	3,207	0.33	1,063,799	3,633	0.34	1,175,632	3,973	0.34
112	Prisoners	21,385	2,979	13.93	21,068	2,700	12.82	20,502	2,975	14.51
113	People, who were examined by clinical indications	157,757	5,730	3.63	199,621	6,877	3.45	231,270	7,660	3.31
114	People, who were examined anonymously	46,281	1,678	3.63	52,884	2,391	4.52	52,377	2,320	4.43
200	Foreign citizens	6,639	22	0.33	6,811	25	0.37	6,986	25	0.36

**Table 15. Comparison of Testing at the Expense of the Local Budgets in the Regions of Ukraine**

Regions	Total number of tests	Number of tests funded from the local budgets (2007)			Total number of tests	Number of tests funded from the Local budgets (2008 )		
		Absolute number	% of the total number of tests	rating		Absolute number	% of the total number of tests	rating
<b>Ukraine</b>	2 866 728	919 714	32.1		3 213 126	1 157 187	36.0	
AR Crimea	170 015	43 341	25.5	10	171 011	43 988	25.7	6
Vinnitsa	92 657	16 924	18.3	3	93 925	17 069	18.2	1
Volyn	79 914	19 255	24.1	8	100 127	36 510	36.5	16
Dnipropetrovsk	269 183	86 997	32.3	15	314 650	109 333	34.7	13
Donetsk	261 496	86 386	33.0	16	309 451	123 819	40.0	18
Zhitomyr	75 150	27 341	36.4	19	86 313	36 978	42.8	22
Zakarpattia	97 854	46 519	47.5	26	100 224	46 076	46.0	24
Zaporizhja	121 099	33 962	28.0	11	129 399	40 008	30.9	10
Ivano-Frankivsk	57 788	14 690	25.4	9	88 532	39 867	45.0	23
Kyiv	99 856	24 044	24.1	7	107 635	31 867	29.6	8
Kyrovograd	65 601	30 765	46.9	25	73 570	29 501	40.1	19
Luhansk	191 974	70 070	36.5	20	184 864	63 465	34.3	12
Lviv	94 914	14 923	15.7	2	100 353	19 320	19.3	2
Mykolayiv	64 750	18 803	29.0	12	72 537	22 393	30.9	9
Odessa	143 138	57 864	40.4	23	153 184	59 669	39.0	17
Poltava	72 992	15 032	20.6	5	76 323	16 407	21.5	4
Rivne	82 016	31 006	37.8	22	107 660	53 435	49.6	26
Sumy	50 654	17 928	35.4	17	64 476	27 301	42.3	21
Ternopil	50 159	11 327	22.6	6	57 714	15 066	26.1	7
Kharkiv	134 841	39 975	29.6	13	154 036	54 394	35.3	14
Kherson	77 319	35 068	45.4	24	82 205	38 249	46.5	25
Khmelnitsky	88 925	18 263	20.5	4	93 038	18 983	20.4	3
Cherkassy	67 163	20 169	30.0	14	84 425	34 377	40.7	20
Chernivtsi	45 775	5 094	11.1	1	52 255	11 487	22.0	5
Chernihiv	97 633	55 459	56.8	27	130 312	87 602	67.2	27
Kyiv city	181 702	66 835	36.8	21	192 787	69 392	36.0	15
Sevastopol city	32 160	11 674	36.3	18	32 120	10 631	33.1	11

**Table 16. Comparing of Testing for Antibodies to HIV in Vulnerable Groups (codes 102, 104 and 105) by Regions of Ukraine**

Regions	Number of tests at the expense of local budgets	2007			Number of tests at the expense of local budgets	2008		
		Tested representatives of vulnerable groups (abs.)	% of the total number of tests funded from the local budgets	rating		Tested representatives of vulnerable groups (abs.)	% of the total number of tests funded from the local budgets	rating
<b>Ukraine</b>	919 714	105 792	11.5		1 157 187	120 973	10.5	
AR Crimea	43 341	4 386	10.1	11	43 988	5 569	12.7	19
Vinnitsa	16 924	2 570	15.2	22	17 069	2 171	12.7	20
Volyn	19 255	1 615	8.4	7	36 510	2 768	7.6	6
Dnipropetrovsk	86 997	9 694	11.1	14	109 333	10 092	9.2	10
Donetsk	86 386	9 483	11.0	13	123 819	10 521	8.5	8
Zhitomyr	27 341	3 656	13.4	18	36 978	3 446	9.3	11
Zakarpattia	46 519	2 053	4.4	1	46 076	1 353	2.9	1
Zaporizhja	33 962	4 697	13.8	19	40 008	4 057	10.1	15
Ivano-Frankivsk	14 690	968	6.6	4	39 867	1 352	3.4	2
Kyiv	24 044	1 760	7.3	6	31 867	2 344	7.4	5
Kyrovograd	30 765	4 069	13.2	17	29 501	5 271	17.9	23
Luhansk	70 070	11 132	15.9	23	63 465	8 090	12.7	21
Lviv	14 923	1 857	12.4	15	19 320	1 898	9.8	13
Mykolayiv	18 803	4 362	23.2	25	22 393	4 840	21.6	25
Odessa	57 864	4 993	8.6	9	59 669	5 860	9.8	12
Poltava	15 032	1 013	6.7	5	16 407	1 057	6.4	4
Rivne	31 006	2 815	9.1	10	53 435	2 358	4.4	3
Sumy	17 928	4 788	26.7	27	27 301	4 444	16.3	22
Ternopil	11 327	1 200	10.6	12	15 066	1 489	9.9	14
Kharkiv	39 975	5 991	15.0	21	54 394	6 568	12.1	17
Kherson	35 068	4 505	12.8	16	38 249	4 776	12.5	18
Khmelnitsky	18 263	4 058	22.2	24	18 983	4 343	22.9	26
Cherkassy	20 169	2 870	14.2	20	34 377	7 049	20.5	24
Chernivtsi	5 094	1 331	26.1	26	11 487	2 825	24.6	27
Chernihiv	55 459	3 486	6.3	2	87 602	7 919	9.0	9
Kyiv city	66 835	5 680	8.5	8	69 392	7 620	11.0	16
Sevastopol city	11 674	760	6.5	3	10 631	893	8.4	7

**Table 17. Results of Sero-epidemiological Monitoring of HIV Infection Spread by the Codes 102, 104 and 105 in 2008**

Regions	Injecting drug users - code 102			People with identified sexually transmitted infections - code 104			People, who have multiple unprotected sexual contacts - code 105		
	tested	positive	%	tested	positive	%	tested	positive	%
<b>Ukraine</b>	<b>35 748</b>	<b>4 952</b>	<b>13.85</b>	<b>55 063</b>	<b>957</b>	<b>1.74</b>	<b>30 162</b>	<b>686</b>	<b>2.27</b>
AR Crimea	1 679	140	8.34	1 740	46	2.64	2 150	24	1.12
Vinnitsa	881	88	9.99	756	4	0.53	534	4	0.75
Volyn	352	44	12.50	2 121	18	0.85	295	6	2.03
Dnipropetrovsk	3 725	788	21.15	5 406	176	3.26	961	43	4.47
Donetsk	3 376	423	12.53	6 078	122	2.01	1 067	31	2.91
Zhitomyr	787	81	10.29	1 590	8	0.50	1 069	10	0.94
Zakarpattia	39	3	7.69	1 156	6	0.52	158	0	0.00
Zaporizhja	1 860	71	3.82	1 909	19	1.00	288	15	5.21
Ivano-Frankivsk	123	44	35.77	619	12	1.94	610	17	2.79
Kyiv	1 072	482	44.96	1 179	77	6.53	93	19	20.43
Kyrovograd	3 424	149	4.35	550	15	2.73	1 297	11	0.85
Luhansk	2 397	78	3.25	3 139	15	0.48	2 554	27	1.06
Lviv	280	56	20.00	1 384	19	1.37	234	5	2.14
Mykolayiv	2 104	505	24.00	2 241	85	3.79	495	26	5.25
Odessa	1 483	229	15.44	3 336	124	3.72	1 041	27	2.59
Poltava	695	72	10.36	249	5	2.01	113	1	0.88
Rivne	358	60	16.76	1 987	17	0.86	13	0	0.00
Sumy	866	30	3.46	1 698	4	0.24	1 880	7	0.37
Ternopil	498	35	7.03	934	6	0.64	57	2	3.51
Kharkiv	1 420	59	4.15	4 742	28	0.59	406	8	1.97
Kherson	1 187	61	5.14	3 402	45	1.32	187	3	1.60
Khmelnitsky	870	98	11.26	3 412	32	0.94	61	2	3.28
Cherkassy	814	93	11.43	2 091	19	0.91	4 144	39	0.94
Chernivtsi	1 451	14	0.96	1 362	5	0.37	12	0	0.00
Chernihiv	827	189	22.85	947	18	1.90	6 145	163	2.65
Kyiv city	2 766	1 005	36.33	557	25	4.49	4 297	195	4.54
Sevastopol city	414	55	13.29	478	7	1.46	1	1	100.00

**Table 18. Results of Sero-epidemiological Monitoring of HIV Infection Spread among Blood Donors in 2008**

Regions	Donors, total			First time (one time) donors		
	code 108			code 108.1		
	tested	positive	%	tested	positive	%
<b>Ukraine</b>	<b>880 307</b>	<b>1 140</b>	<b>0.13</b>	<b>579 722</b>	<b>1 016</b>	<b>0.18</b>
AR Crimea	65 873	97	0.15	59 626	88	0.15
Vinnitsa	39 478	21	0.05	29 373	17	0.06
Volyn	31 826	36	0.11	30 699	36	0.12
Dnipropetrovsk	81 532	162	0.20	33 849	135	0.40
Donetsk	86 224	130	0.15	33 340	101	0.30
Zhitomyr	19 468	15	0.08	12 951	15	0.12
Zakarpattia	18 494	2	0.01	16 940	2	0.01
Zaporizhja	48 390	32	0.07	33 831	32	0.09
Ivano-Frankivsk	13 024	15	0.12	12 200	15	0.12
Kyiv	29 516	64	0.22	22 625	64	0.28
Kyrovograd	18 745	54	0.29	12 080	52	0.43
Luhansk	73 576	28	0.04	66 645	27	0.04
Lviv	23 985	18	0.08	23 383	18	0.08
Mykolayiv	21 945	68	0.31	9 961	57	0.57
Odessa	30 337	90	0.30	16 763	84	0.50
Poltava	24 246	28	0.12	14 767	27	0.18
Rivne	17 975	17	0.09	16 729	17	0.10
Sumy	11 844	4	0.03	2 376	4	0.17
Ternopil	17 170	6	0.03	7 541	6	0.08
Kharkiv	37 932	31	0.08	35 271	31	0.09
Kherson	15 667	20	0.13	7 511	18	0.24
Khmelnitsky	39 979	45	0.11	11 287	19	0.17
Cherkassy	20 928	27	0.13	15 462	27	0.17
Chernivtsi	15 824	5	0.03	3 667	3	0.08
Chernihiv	20 729	40	0.19	11 324	37	0.33
Kyiv city	45 752	78	0.17	36 905	78	0.21
Sevastopol city	9 848	7	0.07	2 616	6	0.23

**Table 19. Results of Sero-epidemiological Monitoring of HIV Infection Spread among Pregnant Women in 2008**

Regions	Pregnant women (total)			Pregnant women (primary test)		
	Code 109			code 109.1		
	tested	positive	%	tested	positive	%
<b>Ukraine</b>	<b>1 175 632</b>	<b>3 973</b>	<b>0.34</b>	<b>643 149</b>	<b>3 563</b>	<b>0.55</b>
AR Crimea	61 150	163	0.27	30 784	148	0.48
Vinnitsa	37 378	50	0.13	18 890	49	0.26
Volyn	31 791	24	0.08	17 518	22	0.13
Dnipropetrovsk	123 785	921	0.74	73 086	806	1.10
Donetsk	99 408	563	0.57	53 667	509	0.95
Zhitomyr	29 867	59	0.20	16 248	51	0.31
Zakarpattia	35 654	30	0.08	21 435	26	0.12
Zaporizhja	41 001	50	0.12	22 854	46	0.20
Ivano-Frankivsk	35 641	41	0.12	19 269	22	0.11
Kyiv	46 252	393	0.85	27 307	393	1.44
Kyrovograd	25 324	127	0.50	14 546	88	0.60
Luhansk	47 823	81	0.17	26 129	78	0.30
Lviv	57 048	52	0.09	31 074	52	0.17
Mykolayiv	28 199	197	0.70	14 664	163	1.11
Odessa	63 178	332	0.53	33 959	324	0.95
Poltava	35 670	79	0.22	18 204	58	0.32
Rivne	36 250	39	0.11	19 523	34	0.17
Sumy	25 331	27	0.11	13 416	26	0.19
Ternopil	25 478	14	0.05	13 871	13	0.09
Kharkiv	61 710	77	0.12	32 240	74	0.23
Kherson	28 289	73	0.26	15 589	66	0.42
Khmelnitsky	34 076	51	0.15	18 182	41	0.23
Cherkassy	29 120	57	0.20	16 274	56	0.34
Chernivtsi	24 944	22	0.09	12 989	20	0.15
Chernihiv	21 981	102	0.46	12 671	93	0.73
Kyiv city	77 643	326	0.42	40 693	282	0.69
Sevastopol city	11 641	23	0.20	8 067	23	0.29

**Table 20. Territorial Rating ( r ) by the Following Indicators: HIV Infection Morbidity (II1), AIDS Incidence (II2), Infection among Blood Donors (II3), Pregnant Women (II4), Injecting Drug Users (II5) and Growth Rate of these Indicators (T1 - T5) Respectively (2008)**

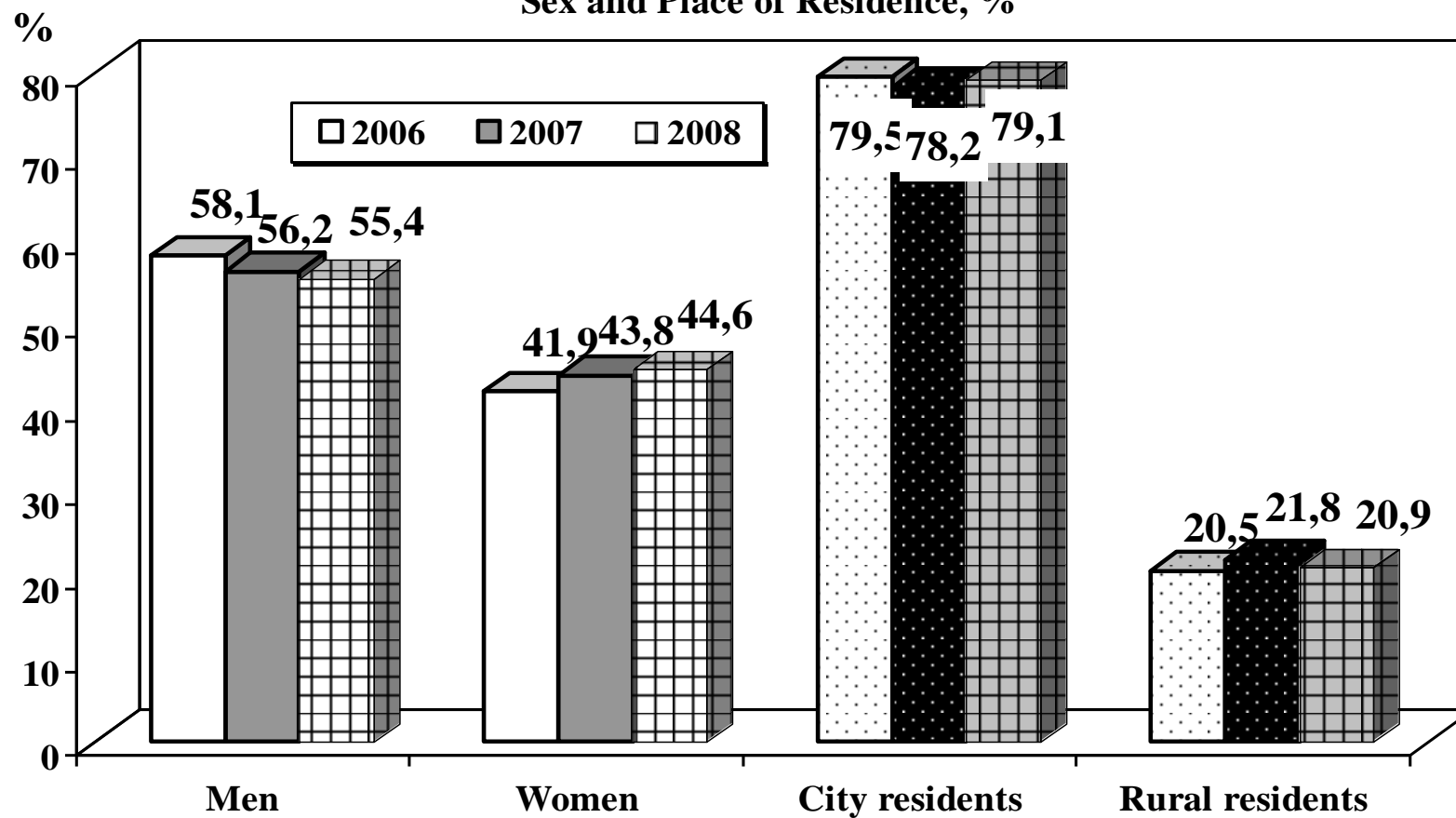
Regions	Final Rating in 2006	Final Rating in 2007	rII <sub>1</sub>	rT <sub>1</sub>	rII <sub>2</sub>	rT <sub>2</sub>	rII <sub>3</sub>	rT <sub>3</sub>	rII <sub>4</sub>	rT <sub>4</sub>	rII <sub>5</sub>	rT <sub>5</sub>	Final Rating in 2008
AR Crimea	15	16	21	8	22	11	19	14	19	15	10	4	<b>16</b>
Vinnitsa	18	13	9	4	13	13	6	4	11	20	11	11	<b>5</b>
Volyn	8	17	12	21	16	19	13	25	3	7	16	12	<b>17</b>
Dnipropetrovsk	26	24	26	16	27	7	23	11	26	19	22	21	<b>26</b>
Donetsk	23	21	25	10	27	4	20	21	24	12	17	17	<b>21</b>
Zhitomyr	12	10	14	22	18	18	11	3	15	23	12	10	<b>18</b>
Zakarpattia	1	3	1	14	1	5	1	1	2	26	9	23	<b>2</b>
Zaporizhja	11	6	16	13	15	15	7	22	9	6	4	14	<b>10</b>
Ivano-Frankivsk	10	7	4	27	2	24	15	26	8	27	25	26	<b>23</b>
Kyiv	24	27	19	23	20	9	24	15	27	24	27	27	<b>27</b>
Kyrovograd	22	22	11	6	10	23	25	24	22	3	6	2	<b>12</b>
Luhansk	2	5	17	18	19	27	5	7	13	10	2	18	<b>14</b>
Lviv	16	8	5	20	8	20	9	10	5	4	21	9	<b>6</b>
Mykolayiv	25	26	27	9	21	1	27	9	25	13	24	22	<b>22</b>
Odessa	13	23	24	3	17	3	26	20	23	8	19	15	<b>19</b>
Poltava	14	15	13	11	12	8	16	13	17	16	13	8	<b>11</b>
Rivne	4	14	10	26	3	16	12	27	6	18	20	24	<b>20</b>
Sumy	9	11	7	19	7	25	4	5	7	21	3	3	<b>4</b>
Ternopil	7	12	3	15	4	6	2	12	1	22	8	20	<b>3</b>
Kharkiv	3	1	8	12	5	22	10	19	10	17	5	5	<b>7</b>
Kherson	17	9	22	17	14	12	18	8	18	9	7	7	<b>13</b>
Khmelnitsky	6	4	6	1	9	14	14	23	12	14	14	13	<b>9</b>
Cherkassy	20	18	15	5	24	17	17	16	16	5	15	6	<b>15</b>
Chernivtsi	5	2	2	25	6	10	3	2	4	25	1	1	<b>1</b>
Chernihiv	19	20	18	24	11	21	22	17	21	11	23	19	<b>24</b>
Kyiv city	27	25	20	7	23	27	21	18	20	2	26	25	<b>25</b>
Sevastopol city	21	19	23	2	25	2	8	6	14	1	18	16	<b>8</b>

First rating points are assigned to the territories with lowest indicator value

**Table 21. Total Number of People, Who Were Receiving ART in Ukraine by 01.01.2009**

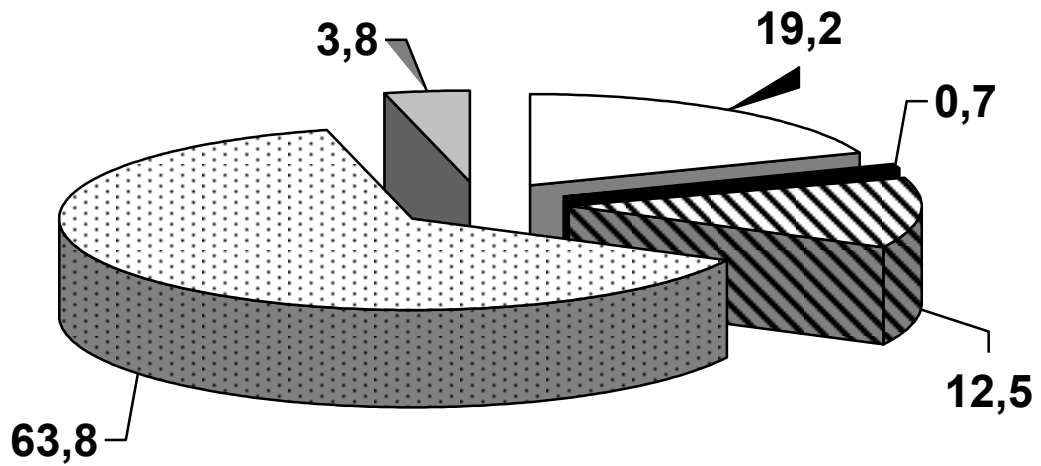
№	Region/Organization	Adults		Children	Total
		State budget	Global Fund, Round 6	State budget	
1	AR Crimea	803	54	89	<b>946</b>
2	Vinnitsa	172	20	17	<b>209</b>
3	Volyn	69	13	19	<b>101</b>
4	Dnipropetrovsk	866	56	207	<b>1 129</b>
5	Donetsk	1 581	105	149	<b>1 835</b>
6	Zhitomyr	36	5	18	<b>59</b>
7	Zakarpattia	4	0	4	<b>8</b>
8	Zaporizhja	182	12	18	<b>212</b>
9	Ivano-Frankivsk	91	0	6	<b>97</b>
10	Kyiv oblast	187	30	44	<b>261</b>
11	Kirovograd	31	4	19	<b>54</b>
12	Luhansk	259	34	16	<b>309</b>
13	Lviv	25	6	11	<b>42</b>
14	Mykolayiv	799	80	79	<b>958</b>
15	Odessa	1 133	31	108	<b>1 272</b>
16	Poltava	176	23	26	<b>225</b>
17	Rivne	23	0	1	<b>24</b>
18	Sumy	59	8	9	<b>76</b>
19	Ternopil	26	0	2	<b>28</b>
20	Kharkiv	157	12	25	<b>194</b>
21	Kherson	130	22	24	<b>176</b>
22	Khmelnitsky	79	21	29	<b>129</b>
23	Chererkassy	62	21	28	<b>111</b>
24	Chernivtsi	31	3	2	<b>36</b>
25	Chernihiv	29	7	26	<b>62</b>
26	Kyiv city	914	42	71	<b>1 027</b>
27	Sevastopol city	220	30	16	<b>266</b>
28	Okmatdyt clinic	15	0	57	<b>72</b>
29	Institute of Epidemiology and Infectious Diseases Named after Gromashevsky at AMS of Ukraine	678	30	3	<b>711</b>
	<b>Total</b>	<b>8 837</b>	<b>669</b>	<b>1 123</b>	<b>10 629</b>

**Figure 1. Distribution of Officially Registered HIV Infected Citizens of Ukraine by Sex and Place of Residence, %**

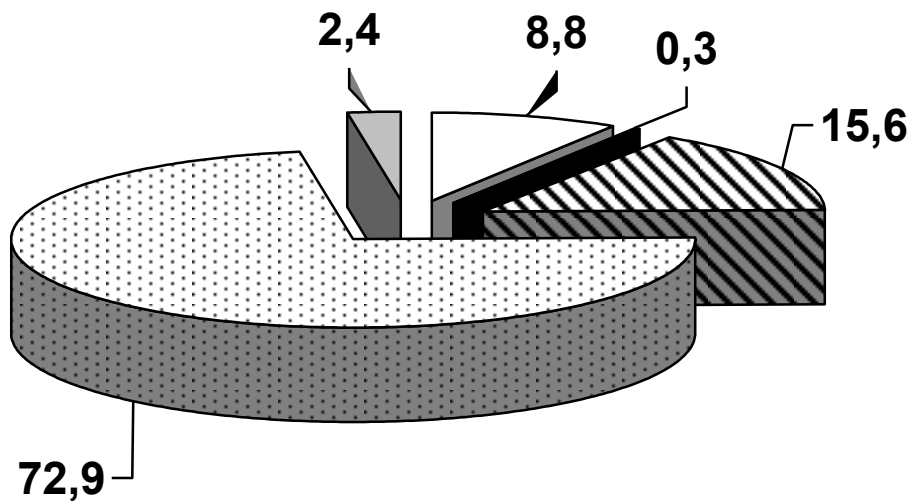


**Figure 2. Distribution of Officially Registered HIV Infected Citizens of Ukraine, by Age Groups, %**

**New HIV infection cases in 2008**

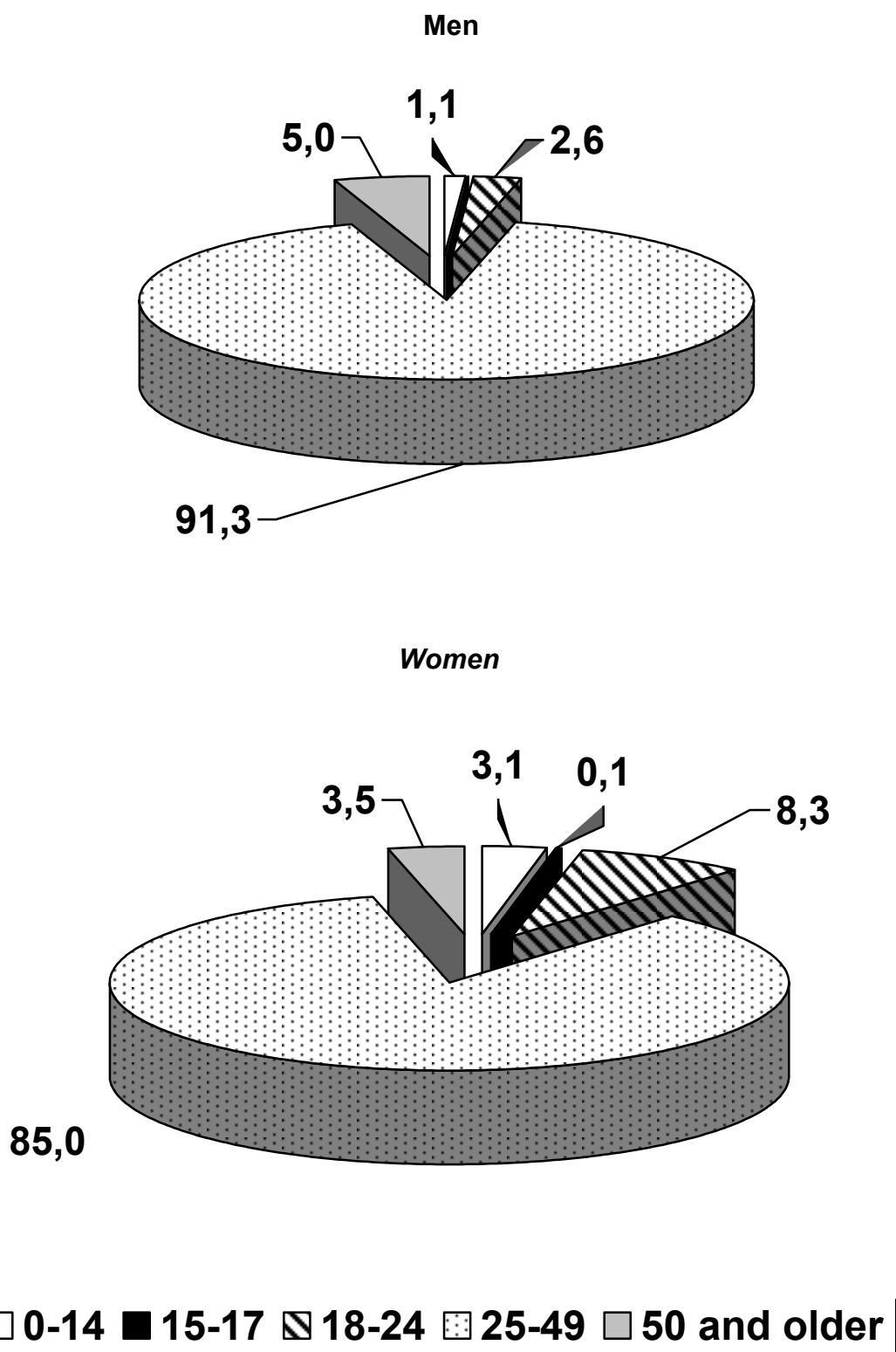


**Remained under medical follow-up by 01.01.2009**

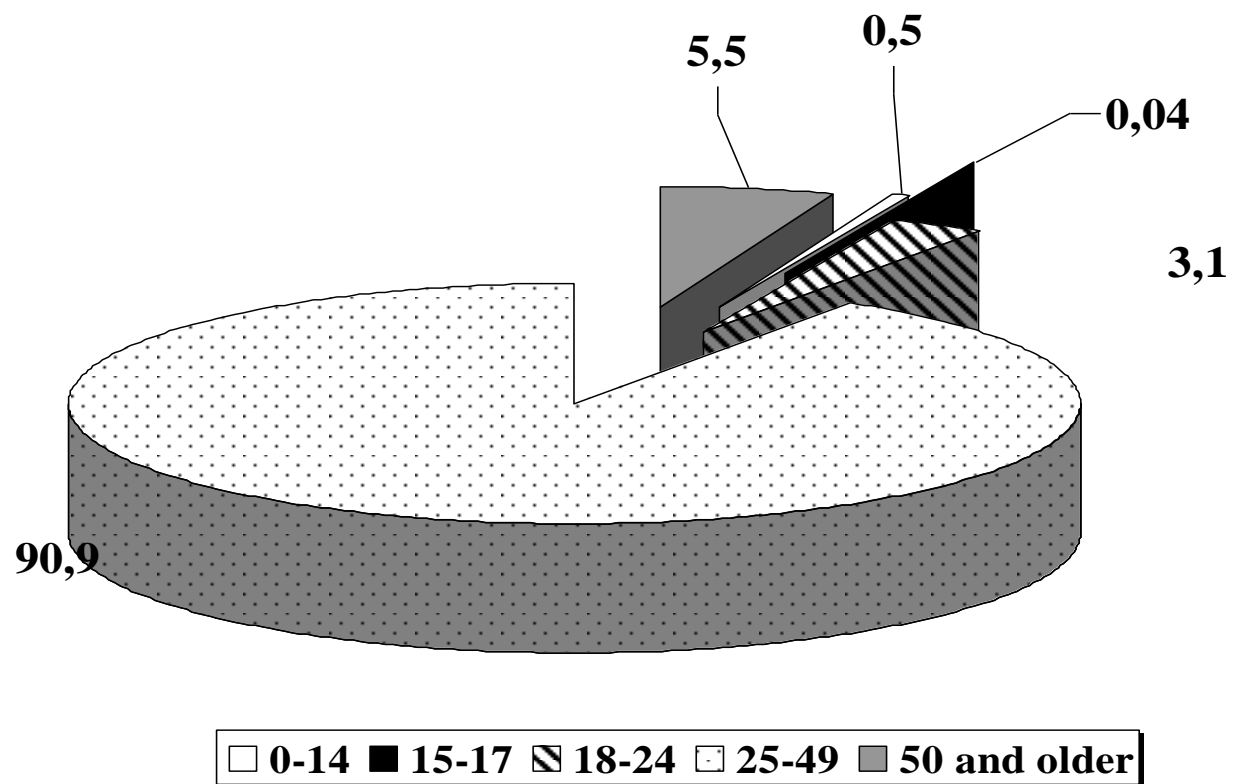


0-14
  15-17
  18-24
  25-49
  50 and older

**Figure 3. Distribution of Officially Registered AIDS Patients in Ukraine, by Age Groups and Sex (newly registered AIDS cases in 2008, %)**



**Figure 4. Distribution of Citizens of Ukraine, Who Died of AIDS,  
by Age Groups in 2008, %**



**Figure 5. Dynamics in the Number of HIV Infected Women in Reproductive Age and of Children Born to HIV Infected Mothers in 1997-2008**

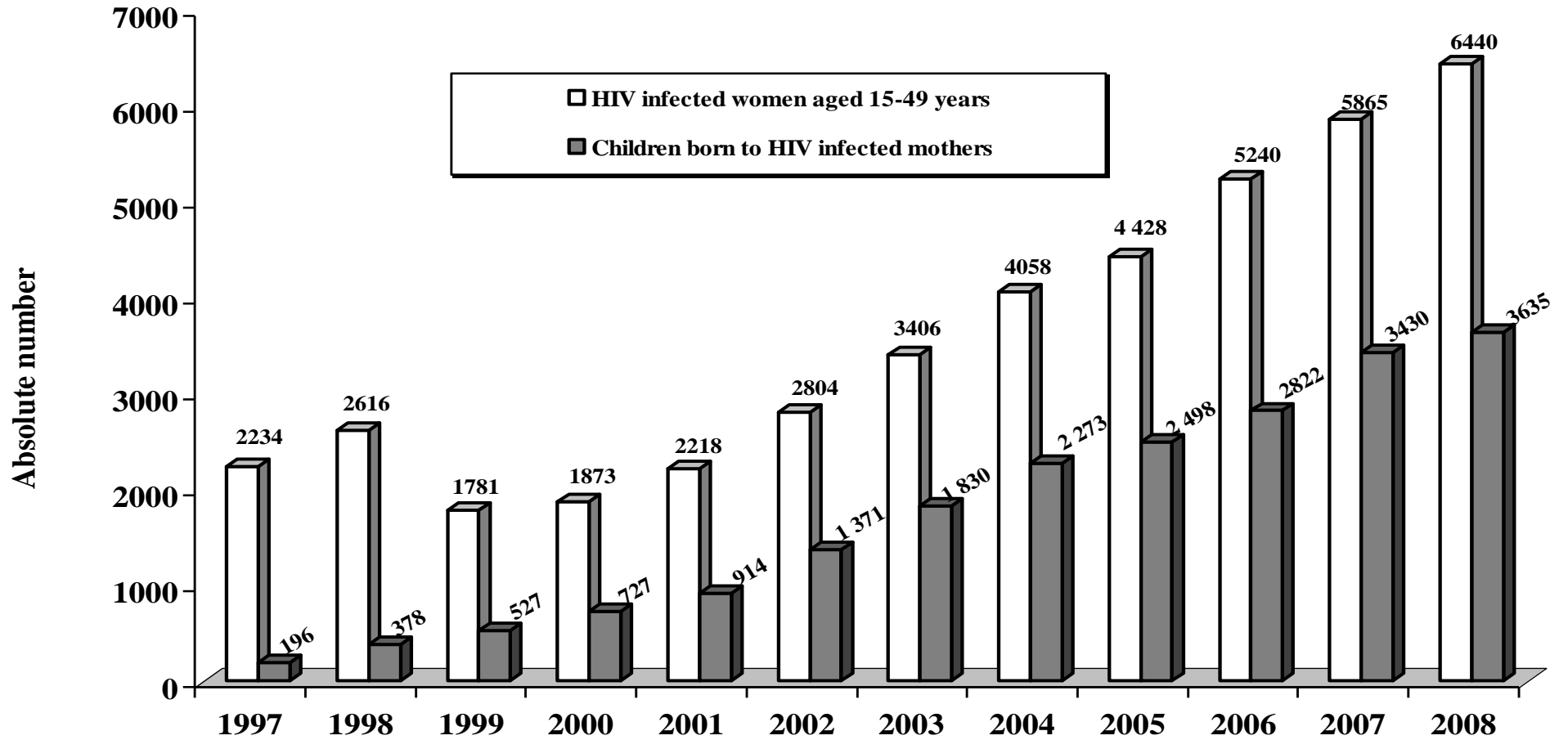


Figure 6. Reasons for Removal of Officially Registered HIV Infected Citizens of Ukraine in 2008, %

