The evolution of HIV/AIDS infection in Romania
31 December 2014
The data is collected from the HIV/AIDS confirmation charts, sent by the nine Regional Centers for Evaluation and Monitoring of HIV/AIDS Data and further processed and elaborated by Compartment for Monitoring and Evaluation of HIV/AIDS data in Romania, in National Institute for Infectious Diseases “Prof. Dr. Matei Bals”
UNAIDS Objectives

By 2020:

90% of all people living with HIV will know their HIV status.

90% of all people with diagnosed HIV infection will receive sustained antiretroviral therapy

90% of all people receiving antiretroviral therapy will have viral suppression....

Romania 1985-2014

• 31 December 2014: 12,886 PLWHA (19,261 cumulative total, since 1985).
• High rate of HIV incidence in children who were infected in the 1980s in Romania
  ▫ The maximum number of these patients recorded at the beginning of the 1990s’; >90%: sub-type F1.
• During the same period, HIV incidence rate among the adult population was low, with a slight subsequent increase due to unprotected heterosexual contact, the main route of transmission for the last decade.
• Currently, Romania has a large number of survivors in the 20-29 age group, who belong to the 1987-1990 cohort (>6000).
• A large number of PLWHA who receive specific ARV therapy in relation to the total number of infected persons (>8000 December 31, 2014 out of 10,261 in active surveillance at 1 December 2014).

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Data in Romania– INBI “Prof.Dr.M.Balş”
HIV subtype: F predominance, unique in Europe

“1987-1990 cohort” children: homogenous F1 subtype of HIV

Thomson and Najera, JID, 2007; Stanojevic et al. AIDS Rev 2011; www.cnlas.ro
Phylogenetic analysis of HIV-1 subtype F1 isolates

F = <1% HIV infections worldwide: Africa & South America

Romanian F1 subtype: closely related to Angolan subtype
distantly related to S America F1

F1 origin: Congo (DRC),
around the late 1950s
Ministry of Health  
National Institute for Infectious Diseases “Prof. Dr. Matei Bals”  
Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania  
General Data at 31 December 2014  

<table>
<thead>
<tr>
<th>TOTAL HIV/AIDS (CUMULATIVE 1985-2014) OF WHICH:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV/AIDS cases in children (0-14 years at date of diagnosis)</td>
<td>9,969</td>
</tr>
<tr>
<td>HIV/AIDS cases in adults (&gt; 14 years at date of diagnosis)</td>
<td>10,177</td>
</tr>
<tr>
<td>Total no. of AIDS deaths (1985-2014)</td>
<td>6,619</td>
</tr>
<tr>
<td>Out of records HIV/AIDS children + adults</td>
<td>641</td>
</tr>
<tr>
<td>Number of patients living with HIV/AIDS</td>
<td>12,886</td>
</tr>
<tr>
<td>Total AIDS (Cumulative 1985-2014)</td>
<td>13,886</td>
</tr>
<tr>
<td>AIDS cases in children (0-14 years at date of diagnosis)</td>
<td>8,114</td>
</tr>
<tr>
<td>AIDS cases in adults (&gt; 14 years at date of diagnosis)</td>
<td>5,772</td>
</tr>
<tr>
<td>Total HIV (Cumulative 1992-2014)</td>
<td>6,260</td>
</tr>
<tr>
<td>HIV cases in children (0-14 years at date of diagnosis)</td>
<td>1,855</td>
</tr>
<tr>
<td>HIV cases in adults (&gt; 14 years at date of diagnosis)</td>
<td>4,405</td>
</tr>
<tr>
<td>New HIV/AIDS cases, diagnosed in 2014</td>
<td>755</td>
</tr>
<tr>
<td>New HIV cases</td>
<td>442</td>
</tr>
<tr>
<td>New AIDS cases</td>
<td>313</td>
</tr>
<tr>
<td>HIV/AIDS related deaths, confirmed by medical charts in 2014</td>
<td>222</td>
</tr>
</tbody>
</table>
Distribution of ages

Age at date of diagnosis/notification
Cumulative total 1985-2014

Distribution by age of PLWHA

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Epidemiology/trends in Romania 2013

WHO European Region

Percentage of new diagnosis in the 19-24 age group, by countries, EU/EEA 2013

Age distribution of PLWH from the Romanian cohort 2013


Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Epidemiology/trends in Romania 2014
WHO European Region

Percentage of new diagnosis in the 19-24 age group, by countries, EU/EEA 2013

Age distribution of PLWH from the Romanian cohort 2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Bâls”
Age distribution (age at the time of death) of deceased patients (cumulative total)

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Distribution of HV/AIDS patients (in life + deceased) by counties

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Rate of survival 2013 - Kaplan-Meier

- 33% of persons who deceased, survived, on average >50 months;
- 15% of persons who deceased survived, on average around 100 month;
- 10% of persons who deceased survived, on average, ≥ 100 months.
- Limitations: we excluded the periods with no treatment, ART schemes, duration of treatment.

- Average period of survival= 45,6 months (C.I.95% 44,3-46,9)
  - Median period of survival for men=44,3 months (C.I.95% 42,6-46)
  - Median period of survival for women=47,6 months (C.I.95% 45,4-49,8)

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
New HIV/AIDS Cases

1 JANUARY – 31 DECEMBER 2014
Distribution of new HIV/AIDS cases by counties 2014

LEGEND
- Children (0-14 yrs)
- Adults (> 14 yrs.)

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Distribution of new HIV/AIDS cases by sex, 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Distribution of new HIV/AIDS cases by age group and sex 2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Distribution of new HIV/AIDS cases by route of transmission in children, 2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Distribution of new HIV/AIDS cases by probable routes of transmission in adults

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
<table>
<thead>
<tr>
<th>Route of transmission</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td>8 (2%)</td>
<td>7 (1%)</td>
<td>20 (4%)</td>
<td>25 (5%)</td>
<td>21 (3%)</td>
<td>21 (2,6%)</td>
<td>21 (2,64%)</td>
<td>16 (2%)</td>
</tr>
<tr>
<td>MSM</td>
<td>14 (3%)</td>
<td>40 (8%)</td>
<td>44 (9%)</td>
<td>60 (11%)</td>
<td>95 (13%)</td>
<td>89 (10,8%)</td>
<td>88 (11,04%)</td>
<td>113 (15%)</td>
</tr>
<tr>
<td>IDU (injecting drug use)</td>
<td>4 (1%)</td>
<td>3 (1%)</td>
<td>7 (1,4%)</td>
<td>14 (3%)</td>
<td>131 (18%)</td>
<td>252 (30,6%)</td>
<td>233 (29,23%)</td>
<td>157 (21%)</td>
</tr>
<tr>
<td>MSM/IDU</td>
<td></td>
<td></td>
<td></td>
<td>1 (&lt;0,5%)</td>
<td>5 (1%)</td>
<td>6 (1%)</td>
<td>5 (0,63%)</td>
<td>8 (1%)</td>
</tr>
<tr>
<td>Heterosexual</td>
<td>352 (79%)</td>
<td>397 (76%)</td>
<td>383 (77%)</td>
<td>399 (75%)</td>
<td>440 (61%)</td>
<td>414 (50%)</td>
<td>435 (54,58%)</td>
<td>443 (58,6%)</td>
</tr>
<tr>
<td>Unknown</td>
<td>67 (15%)</td>
<td>71 (14%)</td>
<td>43(8,6%)</td>
<td>32 (6%)</td>
<td>28 (4%)</td>
<td>39 (5%)</td>
<td>15 (1,88%)</td>
<td>18 (2,4%)</td>
</tr>
<tr>
<td>Total</td>
<td>445</td>
<td>522</td>
<td>497</td>
<td>531</td>
<td>720</td>
<td>821</td>
<td>797</td>
<td>755</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Tendencies in the routes of transmission
Romania 2007-2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
New HIV/AIDS cases (January-December 2014) through i.v. drug use, by age groups

<table>
<thead>
<tr>
<th>Age group</th>
<th>Masculine</th>
<th>Feminine</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-19</td>
<td>6</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>20-24</td>
<td>19</td>
<td>5</td>
<td>24</td>
</tr>
<tr>
<td>25-29</td>
<td>49</td>
<td>4</td>
<td>53</td>
</tr>
<tr>
<td>30-34</td>
<td>39</td>
<td>8</td>
<td>47</td>
</tr>
<tr>
<td>35-39</td>
<td>20</td>
<td>3</td>
<td>23</td>
</tr>
<tr>
<td>40-49</td>
<td>11</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>Total</td>
<td>144</td>
<td>21</td>
<td>165</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
New cases of HIV/AIDS infection through i.v. drug use, by age groups, recorded in 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Drugs used by HIV patients, diagnosed in 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
New HIV/AIDS cases (January-December 2014) through i.v. drug use, by counties

<table>
<thead>
<tr>
<th>County</th>
<th>Masculine</th>
<th>Feminine</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacău</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Braşov</td>
<td>2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Bucureşti</td>
<td>116</td>
<td>21</td>
<td>137</td>
</tr>
<tr>
<td>Buzau</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Caraş-Severin</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Constanţa</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Dâmboviţa</td>
<td>4</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Galaţi</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Giurgiu</td>
<td>3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Ilfov</td>
<td>11</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>Neamţ</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Prahova</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Timiş</td>
<td>1</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>144</td>
<td>21</td>
<td>165</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof. Dr. M. Balș”
HBV, HCV, STDs in new HIV/AIDS cases through i.v. drug use (165 cases)

<table>
<thead>
<tr>
<th>Tested for</th>
<th>Positive</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgHBs</td>
<td>3/165</td>
<td>1,82%</td>
</tr>
<tr>
<td>VHC</td>
<td>136/165</td>
<td>82,42%</td>
</tr>
<tr>
<td>AgHBs + VHC</td>
<td>14/165</td>
<td>8,48%</td>
</tr>
<tr>
<td>STDs</td>
<td>40/165</td>
<td>24,24%</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
HIV/TB Co-infection in HIV/IDUs, diagnosed in 2014

- 78% No TB
- 16% Pulmonary TB
- 4% Disseminated TB
- 2% Extrapulmonary TB

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
I.V. drug users diagnosed HIV+ in 2014, previously tested before the current HIV positive test

<table>
<thead>
<tr>
<th>Year of previous testing</th>
<th>No. of patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>1</td>
</tr>
<tr>
<td>2013</td>
<td>5</td>
</tr>
<tr>
<td>2012</td>
<td>8</td>
</tr>
<tr>
<td>2011</td>
<td>3</td>
</tr>
<tr>
<td>2010</td>
<td>3</td>
</tr>
<tr>
<td>2009</td>
<td>2</td>
</tr>
<tr>
<td>2007</td>
<td>1</td>
</tr>
<tr>
<td>2003</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRITERION</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TOTAL of which</td>
<td>IDU</td>
<td>TOTAL of which</td>
<td>IDU</td>
<td>TOTAL of which</td>
<td>IDU</td>
</tr>
<tr>
<td>Number of HIV cases</td>
<td>233</td>
<td>5</td>
<td>275</td>
<td>4</td>
<td>408</td>
<td>102</td>
</tr>
<tr>
<td>Number of AIDS cases</td>
<td>272</td>
<td>3</td>
<td>263</td>
<td>11</td>
<td>330</td>
<td>45</td>
</tr>
<tr>
<td>Total number of HIV/AIDS cases</td>
<td>505</td>
<td>8</td>
<td>538</td>
<td>15</td>
<td>738</td>
<td>147</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
HBV, HCV and HIV prevalence in IDUs, comparative data 2004-2013

Source: National Agency against Drugs– national Report on drugs - 2014
HBV, HCV and HIV prevalence among IDUs, by the drug consumed- 2013

Source: National Agency against Drugs– national Report on drugs - 2014
## HIV testing in IDUs performed by the Public Health Directions 2007-2014

<table>
<thead>
<tr>
<th>Year</th>
<th>NEGATIVE TEST RESULTS</th>
<th>POZITIVE TESTS RESULTS</th>
<th>TOTAL</th>
<th>% POZITIVE TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>620</td>
<td>6</td>
<td>626</td>
<td>0.95%</td>
</tr>
<tr>
<td>2008</td>
<td>380</td>
<td>3</td>
<td>383</td>
<td>0.78%</td>
</tr>
<tr>
<td>2009</td>
<td>277</td>
<td>6</td>
<td>283</td>
<td>2.12%</td>
</tr>
<tr>
<td>2010</td>
<td>96</td>
<td>1</td>
<td>97</td>
<td>1.03%</td>
</tr>
<tr>
<td>2011</td>
<td>46</td>
<td>3</td>
<td>49</td>
<td>6.12%</td>
</tr>
<tr>
<td>2012</td>
<td>255</td>
<td>19</td>
<td>274</td>
<td>6.93%</td>
</tr>
<tr>
<td>2013</td>
<td>106</td>
<td>22</td>
<td>128</td>
<td>20.75%</td>
</tr>
<tr>
<td>2014</td>
<td>343</td>
<td>39</td>
<td>382</td>
<td>10,2%</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
CD4 values in new HIV/AIDS cases in adults - 2014

Total no. of new cases: 737

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
CD4 values in new cases diagnosed in adults- 2014

**MASCULINE**
- < 100: 12%
- 101-200: 36%
- 201-500: 24%
- > 500: 7%
- Not assessed: 21%

**FEMININE**
- < 100: 8%
- 101-200: 27%
- 201-500: 34%
- > 500: 5%
- Not assessed: 26%

Total no. of cases 531
Total no. of cases : 206

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
CD4 values in new HIV/AIDS cases at adults- 2014

Total no. of cases : 737

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
CD4 values in new HIV/AIDS cases at adults - 2014

**Total cases: 550**

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”

**Total cases: 226**
CD4 values in i.v. drug users vs. HIV/AIDS patients with different routes of transmission 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
CD4 values in IDUs detected with HIV/AIDS in 2014

- <100: 28%
- 100-200: 2%
- 201-500: 30%
- >500: 16%
- Unassessed: 24%

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
CD4 values in IDUs detected with HIV/AIDS in 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
CD4 values in IDUs vs. patients who acquired HIV though different ways, detected with HIV/AIDS in 2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Viral load values in new cases diagnosed in 2014
Total no. of cases in adults: 737

- >100,000: 3%
- 50,001-100,000: 6%
- 10,001-10,000: 8%
- 1,001-10,000: 42%
- <1,000: 14%
- Under assessment: 17%
- Not assessed: 6%

Source: Compartmen for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Viral load values in new cases in adults, detected in 2014

**Total no. of cases assessed: 254**

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”

**Total no. of cases assessed : 108**
Evolution of HIV/AIDS in Romania

1985-2014
AIDS incidence in adults and children between 1985-2014 (100,000)

Children 2014: 0.22/100,000
Adults 2014: 1.73/100,000

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Sex distribution of AIDS cases at 31 December 2014 (cumulative total 1984-2014)

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Age group and sex distribution (at the date of diagnosis) at 31 December 2014 (cumulative total 1985-2014)

Source: Compartmen

Source: Compartmen

Source: Compartmen

Source: Compartmen

Source: Compartmen

Source: Compartmen

Source: Compartmen
Probable way of transmission in children with AIDS (0-14 years at the date of diagnosis) at 31 December 2014 (cumulative total 1989-2014)

*Persons who received blood transfusions in the late 1980s and early 1990s.
**Persons with repeated admissions and/or multiple parenteral treatments in the late 1980s and early 1990s

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Probable way of transmission in adults with AIDS (>14 years at the date of diagnosis) at 31 December 2014 (cumulative total 1985-2014)

* Persons who received blood transfusions in the late 1980s and early 1990s

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Distribution of AIDS cases in women, by age group and year of diagnosis, between 1985-2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
HIV incidence rate in adults and children between 1985-2014 (100.000)

Children 2014: 0.35/100.000
Adults 2014: 2.38/100.000

Source: Compartmen
I
INBI “Prof.Dr.M.Balş”
Sex distribution of HIV cases at 31 December 2014 (cumulative total 1992-2014)

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Age and sex distribution (at the date of diagnosis) of HIV infection cases at 31 December 2014 (cumulative total 1992-2014)

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Probable way of transmission in children with HIV infection (0-14 years at the date of diagnosis) at 31 December 2014 (cumulative total 1992-2014)

*Persons who received blood transfusions in the late 1980s and early 1990s
** Persons with repeated admissions and/or multiple parenteral treatments in the late 1980s and early 1990s

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Baļš”
Probable way of transmission in adults with HIV infection (> 14 years at the date of diagnosis) at 31 December 2014 (cumulative total 1992-2014)

*Persons who received blood transfusions in the late 1980s and early 1990s

**Source:** Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Distribution of HIV infection in women by years of diagnosis and age group (1992-2014)

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Distribution of HIV/AIDS cases in PLWHA by age groups and current age at 31 December 2014 (cumulative total 1985-2014)

<table>
<thead>
<tr>
<th>Age group</th>
<th>SEX</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MASCULINE</td>
<td>FEMININE</td>
</tr>
<tr>
<td>&lt; 1 year</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>1-4 yrs.</td>
<td>29</td>
<td>24</td>
</tr>
<tr>
<td>5-9 yrs.</td>
<td>34</td>
<td>40</td>
</tr>
<tr>
<td>10-12 yrs.</td>
<td>22</td>
<td>34</td>
</tr>
<tr>
<td>13-14 yrs.</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>15-19 yrs.</td>
<td>105</td>
<td>82</td>
</tr>
<tr>
<td>20-24 yrs.</td>
<td>691</td>
<td>555</td>
</tr>
<tr>
<td>25-29 yrs.</td>
<td>3181</td>
<td>2666</td>
</tr>
<tr>
<td>30-34 yrs.</td>
<td>720</td>
<td>387</td>
</tr>
<tr>
<td>35-39 yrs.</td>
<td>685</td>
<td>465</td>
</tr>
<tr>
<td>40-49 yrs.</td>
<td>992</td>
<td>742</td>
</tr>
<tr>
<td>50-59 yrs.</td>
<td>535</td>
<td>342</td>
</tr>
<tr>
<td>≥60 yrs.</td>
<td>323</td>
<td>207</td>
</tr>
<tr>
<td>TOTAL</td>
<td>7328</td>
<td>5558</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
HBV, HCV and HBV+HCV infection in seropositive adults during 1985-2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
AIDS defining illnesses in 2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Deaths by year
1985-2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
Mean rate of survival (measured in months) in AIDS patients, between 1990-2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Mother to child transmission of HIV in Romania
HIV/AIDS Infection in children with mother to child transmission

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Bași”
Age group distribution of HIV/AIDS infection cases acquired through vertical transmission by age group

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Children (0-14 years): number of schemes prior to the actual one
31 December 2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
ART schemes in children
31 December 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Viral load values in children under antiretroviral treatment

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Prophylaxis of mother to child transmission in pregnant women 2009-2014

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Prophylaxis of mother to child transmission in children born to HIV positive mothers 2009-2014

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of born children</th>
<th>No. of prophylaxis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>204</td>
<td>192</td>
</tr>
<tr>
<td>2010</td>
<td>222</td>
<td>204</td>
</tr>
<tr>
<td>2011</td>
<td>196</td>
<td>183</td>
</tr>
<tr>
<td>2012</td>
<td>203</td>
<td>196</td>
</tr>
<tr>
<td>2013</td>
<td>239</td>
<td>230</td>
</tr>
<tr>
<td>2014</td>
<td>215</td>
<td>211</td>
</tr>
</tbody>
</table>

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
HIV testing 2014
### HIV testing* in risk groups in 2014

<table>
<thead>
<tr>
<th>Risk group</th>
<th>Negative tests</th>
<th>Positive tests</th>
<th>TOTAL</th>
<th>%POZITIV</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD</td>
<td>2298</td>
<td>47</td>
<td>2345</td>
<td>2,00</td>
</tr>
<tr>
<td>TBC</td>
<td>11240</td>
<td>106</td>
<td>11346</td>
<td>0,93</td>
</tr>
<tr>
<td>Maternity testing</td>
<td>694</td>
<td>12</td>
<td>706</td>
<td>1,70</td>
</tr>
<tr>
<td>Pregnant women</td>
<td>132634</td>
<td>183</td>
<td>132817</td>
<td>0,14</td>
</tr>
<tr>
<td>Health care staff</td>
<td>8649</td>
<td></td>
<td>8649</td>
<td>0,00</td>
</tr>
<tr>
<td>Pts. with hemodialysis</td>
<td>3757</td>
<td></td>
<td>3757</td>
<td>0,00</td>
</tr>
<tr>
<td>Pts. with transfusions</td>
<td>212</td>
<td></td>
<td>212</td>
<td>0,00</td>
</tr>
<tr>
<td>Prenuptial check-up</td>
<td>7496</td>
<td>10</td>
<td>7506</td>
<td>0,13</td>
</tr>
<tr>
<td>I.V. drug users</td>
<td>343</td>
<td>39</td>
<td>382</td>
<td>10,21</td>
</tr>
<tr>
<td>Inmates</td>
<td>548</td>
<td>4</td>
<td>552</td>
<td>0,72</td>
</tr>
<tr>
<td>Homosexuals</td>
<td>47</td>
<td>5</td>
<td>52</td>
<td>9,62</td>
</tr>
<tr>
<td>Commercial sex workers</td>
<td>36</td>
<td>1</td>
<td>37</td>
<td>2,70</td>
</tr>
<tr>
<td>HIV Contacts</td>
<td>1021</td>
<td>84</td>
<td>1105</td>
<td>7,60</td>
</tr>
<tr>
<td>Sailors</td>
<td>4944</td>
<td></td>
<td>4944</td>
<td>0,00</td>
</tr>
<tr>
<td>Drivers</td>
<td>8393</td>
<td>3</td>
<td>8396</td>
<td>0,04</td>
</tr>
<tr>
<td>Work abroad&gt; 6 month</td>
<td>243</td>
<td>3</td>
<td>246</td>
<td>1,22</td>
</tr>
<tr>
<td>Stay abroad&gt; 6 month</td>
<td>215</td>
<td></td>
<td>215</td>
<td>0,00</td>
</tr>
<tr>
<td>Testing by request</td>
<td>123532</td>
<td>1178</td>
<td>124710</td>
<td>0,94</td>
</tr>
<tr>
<td>Occasional</td>
<td>23704</td>
<td>741</td>
<td>24445</td>
<td>3,03</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>330006</strong></td>
<td><strong>2416</strong></td>
<td><strong>332422</strong></td>
<td><strong>0,73</strong></td>
</tr>
</tbody>
</table>

* The data are sent by County Public Health Authorities

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
HIV testing in pregnant women, by age group in 2014

<table>
<thead>
<tr>
<th>Age group</th>
<th>Negative tests</th>
<th>Positive tests</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-14 yrs.</td>
<td>530</td>
<td>16</td>
<td>530</td>
</tr>
<tr>
<td>15-19 yrs.</td>
<td>13515</td>
<td>60</td>
<td>13531</td>
</tr>
<tr>
<td>20-24 yrs.</td>
<td>28567</td>
<td>40</td>
<td>28627</td>
</tr>
<tr>
<td>25-29 yrs.</td>
<td>38292</td>
<td>40</td>
<td>38332</td>
</tr>
<tr>
<td>30-34 yrs.</td>
<td>25995</td>
<td>30</td>
<td>26025</td>
</tr>
<tr>
<td>35-39 yrs.</td>
<td>14836</td>
<td>7</td>
<td>14843</td>
</tr>
<tr>
<td>&gt; 40 yrs.</td>
<td>2719</td>
<td>3</td>
<td>2722</td>
</tr>
<tr>
<td>Unspecified age</td>
<td>8180</td>
<td>27</td>
<td>8207</td>
</tr>
<tr>
<td>TOTAL</td>
<td>132634</td>
<td>183</td>
<td>132817</td>
</tr>
</tbody>
</table>

* The data are sent by County Public Health Authorities

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
HIV testing in pregnant women by age group in 2014

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
HIV testing in pregnant women

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Baș”
HIV testing in blood donors

Source: Compartmen for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
STD testing in HIV patients

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balş”
HIV testing in TB patients

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Baş”
HIV testing in HIV contacts

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Baş”
HIV testing by request

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Baş”
Challenges in 2014...
Difficulties associated to the management of HIV/AIDS in Romania

- Impact of “therapeutic fatigue” on treatment adherence.
- Advanced stage of disease associated to virologic and immunologic failure.
- Multiple associated diseases that require specific treatment and antiretroviral treatment.
- Management of:
  - ART in TB/HIV co-infection
  - ART in HIV and HBV/HCV co-infection
  - New cases of HIV-IDUs (82% HCV co-infection, 8% HBV-HCV co-infection, 19% STD in 2014)

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Balș”
Most WLWHA are long term survivors, infected in the late 1980s:

- Multiple therapeutic schemes, that have an impact on ART resistance.
- ~50% of couples are serodiscordant (>50% of women are HIV+).
- In this context, the rate of MTCT has been kept <5% during the last years due to the National Mother to Child Transmission Prevention Programme, initiated in 1998. In 2014, the rate accounted only 2% from the cumulative total of new cases.
- Furthermore, efforts are being done in order to maintain the MTCT rate at low values.

*National HIV/AIDS Strategy 2012-2015*
Difficulties associated to the management of HIV/AIDS in Romania

- During the last years, the main way of transmission was unprotected heterosexual contact. For 2014: 58.6% of new cases

- The IDU/HIV rate increased from 3% in 2010 at 29.23% in 2013 and 21% in 2014.

- The MSM/HIV rate is >10% from the cumulative total of new cases - 15% in 2014.

- The highest number of new diagnosed cases was registered at the 25-29 age group.

- An increase in the number of persons infected with HIV who need specialized medical services has been observed.

Source: Compartiment for Monitoring and Evaluation of HIV/AIDS Infection in Romania INBI “Prof.Dr.M.Baș”
Young mothers, multi-experienced in ART
Mothers with unknown HIV status—should be tested and treated for HIV.
New approach for management of perinatally exposed newborns.
National Registry of the Perinatally exposed child and HIV-infected women.

Almost all ARVs are registered in Romania. Treatment as prevention.
Special issues in ART in young women.

New psychoactive drugs
New approach for the case management

PLWHA
Young by age, old by treatment
Therapeutic fatigue
New cases of HIV: young persons, in their fertile age, late presenters.
MSMs: dynamic increase in no. of cases.
Aging persons by age and by HIV (aging with HIV).

**“1987-1990 COHORT”**

- The biggest cohort in Europe, in the 20-29 age group
- It represents ~half of the HIV positive population in Romania
- Sex ratio 1:1
- F1 Subtype: around 100%
- Long term survivors (~ 6000 survivors)
  - Multiple ART regimens (10-15!)
  - Salvage therapy
  - ART toxicity
  - “Therapeutic fatigue”
- They have/want children of their own:
  - Problems ↓ vertical transmission
  - ART therapy long term teratogenic effects

Source: A. Streinu-Cercel. cnlas.ro: *Specific Challenges of the Hiv Epidemic in Romania. EACS 2013.*
New cases:

- Late presenters: heterosexual persons, F1 subtype

- “Real time” presentations to hospital: MSM & IDUs (HIV primary infections!):
  - MSM: high level of education  →  voluntary and pro-active testing
  - IDU: socially integrated  →  tested by the medical staff

- Transmitted resistance: increased level in all groups <10% (4.6%).

- A special issue: children born to mothers who use injecting drugs, that also present HIV+HCV+HBV co-infection!

Global HIV/AIDS infection

2013
## General data in 2013

<table>
<thead>
<tr>
<th>Number of PLWHA</th>
<th>Total</th>
<th>35 million (33.2 - 37.2 million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>31.8 million (30.1 - 33.7 million)</td>
<td></td>
</tr>
<tr>
<td>Women</td>
<td>16.0 million (15.2 - 16.9 million)</td>
<td></td>
</tr>
<tr>
<td>Children &lt; 15 years</td>
<td>3.2 million (2.9 - 3.5 million)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Persons infected with HIV/AIDS in 2013</th>
<th>Total</th>
<th>2.1 million (1.9 - 2.4 million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>1.9 million (1.7 - 2.1 million)</td>
<td></td>
</tr>
<tr>
<td>Children &lt; 15 years</td>
<td>240,000 (210,000 - 280,000)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deaths caused by AIDS in 2013</th>
<th>Total</th>
<th>1.5 million (1.4 - 1.7 million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>1.3 million (1.2 - 1.5 million)</td>
<td></td>
</tr>
<tr>
<td>Children &lt; 15 years</td>
<td>190,000 (170,000 - 220,000)</td>
<td></td>
</tr>
</tbody>
</table>

*Source: UNAIDS*
Estimates on the number of PLWHA (2000-2013)
Global estimates on adults and children in 2013

- **PLWH:** 35 million (33.2 - 37.2 million)
- New cases of HIV infection detected in 2013: 2.1 million (1.9 - 2.4 million)
- Deaths caused by AIDS in 2013: 1.5 million (1.4 - 1.7 million)

*Source: UNAIDS*
Estimates on the number of children and adults living with HIV in 2013

Source: UNAIDS
Estimates on the number of adults and children infected with HIV in 2013

Total: 2.1 million [1.9 million – 2.4 million]

Source: UNAIDS
Estimates on the number of deaths caused by AIDS (adults and children) in 2013

Source: UNAIDS
Almost 6000 persons newly infected with HIV in 2013

- More than 68% come from Sub-Saharan Africa
- Almost 700 are children below 15
- Almost 5200 are persons over 15 years, of which:
  - Approx. 47% are women
  - Approx. 33% are aged between 15-24 years

Source: UNAIDS
Global estimates on HIV and AIDS at the end of 2013
Children (<15 years)

- Children living with HIV: 3,2 million (2.9 - 3.5 million)
- Newly infected children with HIV in 2013: 240,000 (210,000 - 280,000)
- Deaths caused by AIDS in 2013: 190,000 (170,000 - 220,000)

Source: UNAIDS
### Regional statistical data
**December 2013**

<table>
<thead>
<tr>
<th>Region</th>
<th>Adults and children living with HIV</th>
<th>Adults and children newly infected with HIV</th>
<th>Adult prevalence (15–49) [%]</th>
<th>Adult &amp; child deaths due to AIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub-Saharan Africa</td>
<td>24.7 million [23.5 million – 26.1 million]</td>
<td>1.5 million [1.3 million – 1.8 million]</td>
<td>4.7% [4.4% – 4.9%]</td>
<td>1.1 million [1.0 million – 1.3 million]</td>
</tr>
<tr>
<td>Middle East and North Africa</td>
<td>230 000 [160 000 – 330 000]</td>
<td>25 000 [14 000 – 41 000]</td>
<td>0.1% [≤0.1% – 0.2%]</td>
<td>15 000 [10 000 – 21 000]</td>
</tr>
<tr>
<td>Asia and the Pacific</td>
<td>4.8 million [4.1 million – 5.5 million]</td>
<td>350 000 [250 000 – 510 000]</td>
<td>0.2% [0.2% – 0.2%]</td>
<td>250 000 [210 000 – 290 000]</td>
</tr>
<tr>
<td>Latin America</td>
<td>1.6 million [1.4 million – 2.1 million]</td>
<td>94 000 [71 000 – 170 000]</td>
<td>0.4% [0.4% – 0.6%]</td>
<td>47 000 [39 000 – 75 000]</td>
</tr>
<tr>
<td>Caribbean</td>
<td>250 000 [230 000 – 280 000]</td>
<td>12 000 [9400 – 14 000]</td>
<td>1.1% [0.9% – 1.2%]</td>
<td>11 000 [8 300 – 14 000]</td>
</tr>
<tr>
<td>Eastern Europe and Central Asia</td>
<td>1.1 million [0.8 million – 1.3 million]</td>
<td>110 000 [86 000 – 130 000]</td>
<td>0.8% [0.6% – 0.8%]</td>
<td>53 000 [43 000 – 69 000]</td>
</tr>
<tr>
<td>Western and Central Europe and North America</td>
<td>2 300 000 [2.0 million – 3.0 million]</td>
<td>88 000 [44 000 – 160 000]</td>
<td>0.3% [0.3% – 0.5%]</td>
<td>27 000 [23 000 – 34 000]</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>35.0 million [33.2 million – 37.2 million]</td>
<td>2.1 million [1.9 million – 2.4 million]</td>
<td>0.8% [0.7% – 0.8%]</td>
<td>1.5 million [1.4 million – 1.7 million]</td>
</tr>
</tbody>
</table>

The ranges around the estimates in this table define the boundaries within which the actual numbers lie, based on the best available information.

Source: UNAIDS
Estimates for WHO European Region (53 countries) - 2013 HIV/AIDS

- HIV/AIDS reported cases (cumulative total):
  - AIDS cases: 437,885
  - AIDS deaths: 230,370
  - HIV Infection: 914,813

Source: HIV surveillance Report 2013
Characteristics of HIV infection cases diagnosed in the WHO European Region in 2013, by geographical areas

<table>
<thead>
<tr>
<th></th>
<th>WHO European Region</th>
<th>West</th>
<th>Centre</th>
<th>East</th>
<th>EU/EEA countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reporting countries/no. of reporting countries</td>
<td>51/53 (51/53)</td>
<td>23/23</td>
<td>15/15</td>
<td>13/15 (14/15)</td>
<td>30/31</td>
</tr>
<tr>
<td>Number of HIV infection cases</td>
<td>56 507 (136 235)</td>
<td>26 847</td>
<td>4166</td>
<td>25 494 (105 222)</td>
<td>29 157</td>
</tr>
<tr>
<td>Rate per 100,000 population</td>
<td>7,8 (15,7)</td>
<td>6,3</td>
<td>2,2</td>
<td>22,7 (41,2)</td>
<td>5,7</td>
</tr>
<tr>
<td>% of cases:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-24 age group</td>
<td>10,2%</td>
<td>10,3%</td>
<td>14,4%</td>
<td>9,5%</td>
<td>10,9%</td>
</tr>
<tr>
<td>Men/women ratio</td>
<td>2.2 (1.7)</td>
<td>3,3</td>
<td>4,9</td>
<td>1,3 (1,4)</td>
<td>3,3%</td>
</tr>
<tr>
<td>Way of transmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heterosexual</td>
<td>46,1% (30,6%)</td>
<td>33,6%</td>
<td>24,8%</td>
<td>62,7% (30,0%)</td>
<td>32%</td>
</tr>
<tr>
<td>MSM</td>
<td>23,6% (10,1%)</td>
<td>43,1%</td>
<td>30,1%</td>
<td>2% (0,8%)</td>
<td>42%</td>
</tr>
<tr>
<td>I.V. drugs</td>
<td>16,2% (21,3%)</td>
<td>4,1%</td>
<td>5,9%</td>
<td>30,6% (26,3%)</td>
<td>5%</td>
</tr>
<tr>
<td>MTCT</td>
<td>0,9% (0,6%)</td>
<td>0,7%</td>
<td>1,1%</td>
<td>1,1% (0,6%)</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Unknown</td>
<td>13% (37,3%)</td>
<td>18,2%</td>
<td>37,9%</td>
<td>3,6% (42,2%)</td>
<td>20%</td>
</tr>
</tbody>
</table>

No data received from Lichtenstein, Turkmenistan or Uzbekistan.
*Figures including Russia are presented for the WHO Region and East in (brackets)

Source: ECDC/WHO (2014). HIV/AIDS Surveillance in Europe, 2013; data for Russia which were published by the Russian Federal Scientific and Methodological Center for Prevention and Control of AIDS.
CASE DEFINITIONS OF COMMUNICABLE DISEASES
ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) AND
HUMAN IMMUNODEFICIENCY VIRUS (HIV) INFECTION

Clinical Criteria (AIDS)

Any person who has any of the clinical conditions as defined in the
European AIDS case definition for:
— Adults and adolescents ≥ 15 years
— Children < 15 years of age

Laboratory Criteria (HIV)

— Adults, adolescents and children aged ≥ 18 months
At least one of the following three:
— Positive result of a HIV screening antibody test or a combined
screening test (HIV antibody and HIV p24 antigen) confirmed by
a more specific antibody test (e.g. Western blot)
— Positive result of 2 EIA antibody test confirmed by a positive
result of a further EIA test
— Positive results on two separate specimens from at least one of the
following three:
  — Detection of HIV nucleic acid (HIV-RNA, HIV-DNA)
  — Demonstration of HIV by HIV p24 antigen test, including
neutralisation assay
— Isolation of HIV
— Children aged < 18 months
Positive results on two separate specimens (excluding cord blood)
from at least one of the following three:
— Isolation of HIV
— Detection of HIV nucleic acid (HIV-RNA, HIV-DNA)
— Demonstration of HIV by HIV p24 antigen test, including
neutralisation assay in a child ≥ 1 month of age

Epidemiological Criteria NA

Case Classification
A. Possible case NA
B. Probable case NA
C. Confirmed case
   — HIV infection
   Any person meeting the laboratory criteria for HIV infection
   — AIDS
   Any person meeting the clinical criteria for AIDS and the laboratory criteria for HIV infection

Definitions

• **INCIDENCE** = Number of new cases of infection X 100,000 population, registered at 1 July 2013

• **PREVALENCE** = Number of new and old cases of infection X 100,000 population, registered at 1 July 2013

• **CHILD** = person entering the 0-14 age group, as CDC definition established (1993-1994)

• **ADULT** = person ≥ 15 years, as CDC definition established (1993-1994).
Sources and references

- Revised surveillance Case Definition for HIV Infection Among Adults, Adolescents, and Children Aged < 18 Months and for HIV Infection and AIDS Among Children Aged 18 Months to <13 years—CDC, United States, 2008 (http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5710a1.htm)
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