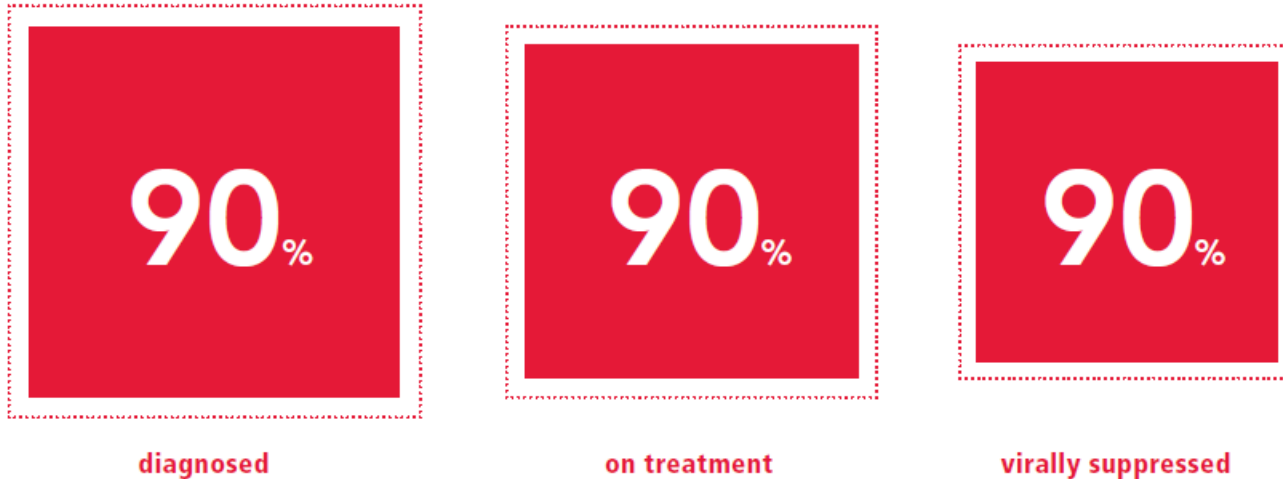




HIV/AIDS infection in Romania
UPDATE
30 June 2020

1. UNAIDS targets for 2020 launched at 1 January 2017

THE TREATMENT TARGET

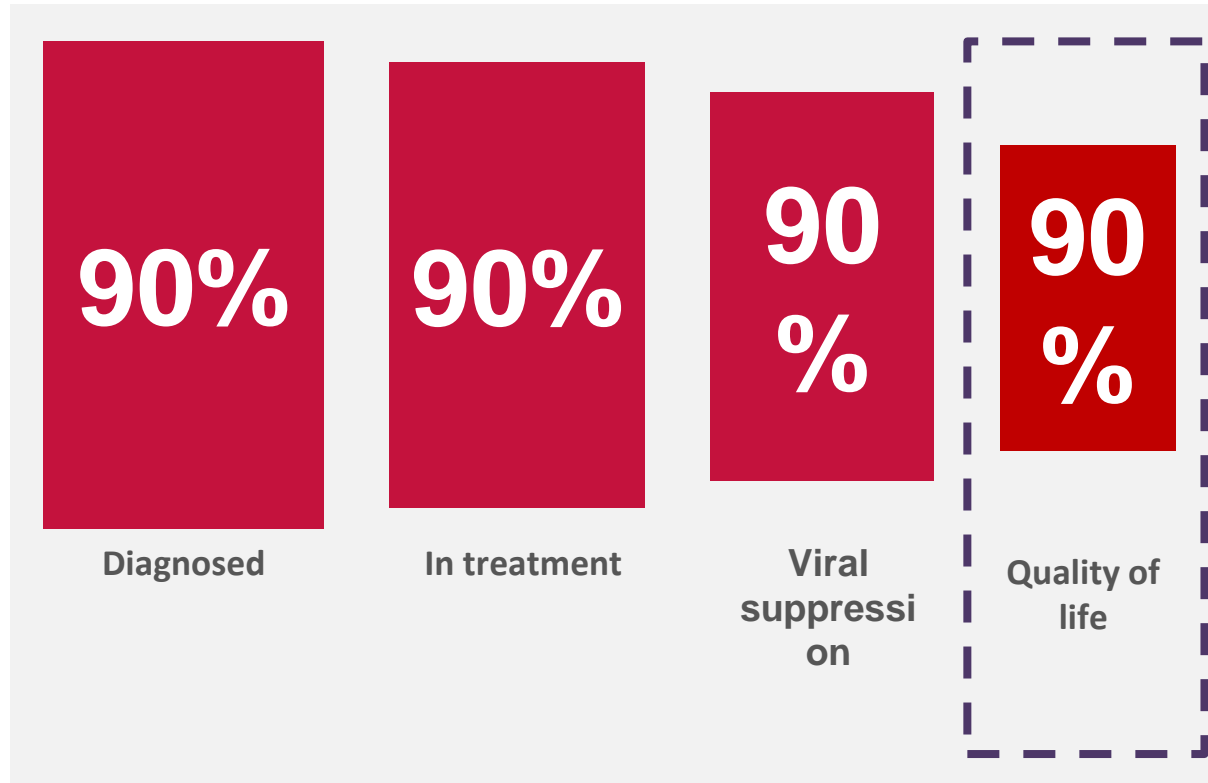


90% of persons diagnosed with HIV by 2020.

90% of persons diagnosed are under antiretroviral treatment by 2020.

90% of those under antiretroviral treatment obtain viral suppression <50 copies/mL by 2020.

“Beyond viral suppression: the time for the fourth ‘90”



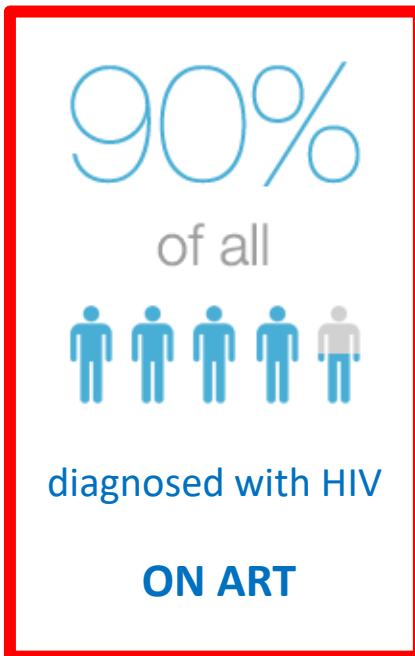
“LONG TERM HEALTH CONCEPT”

Fast Track Targets by 2020

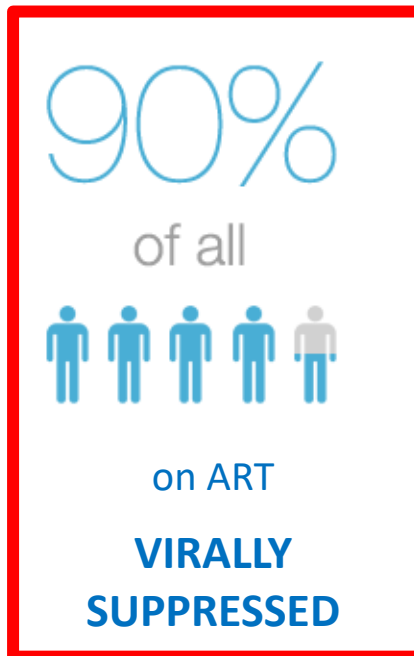
Target 1



Target 2

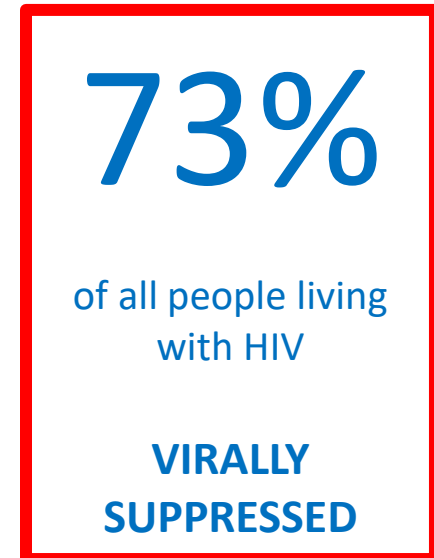


Target 3



Overall target

=

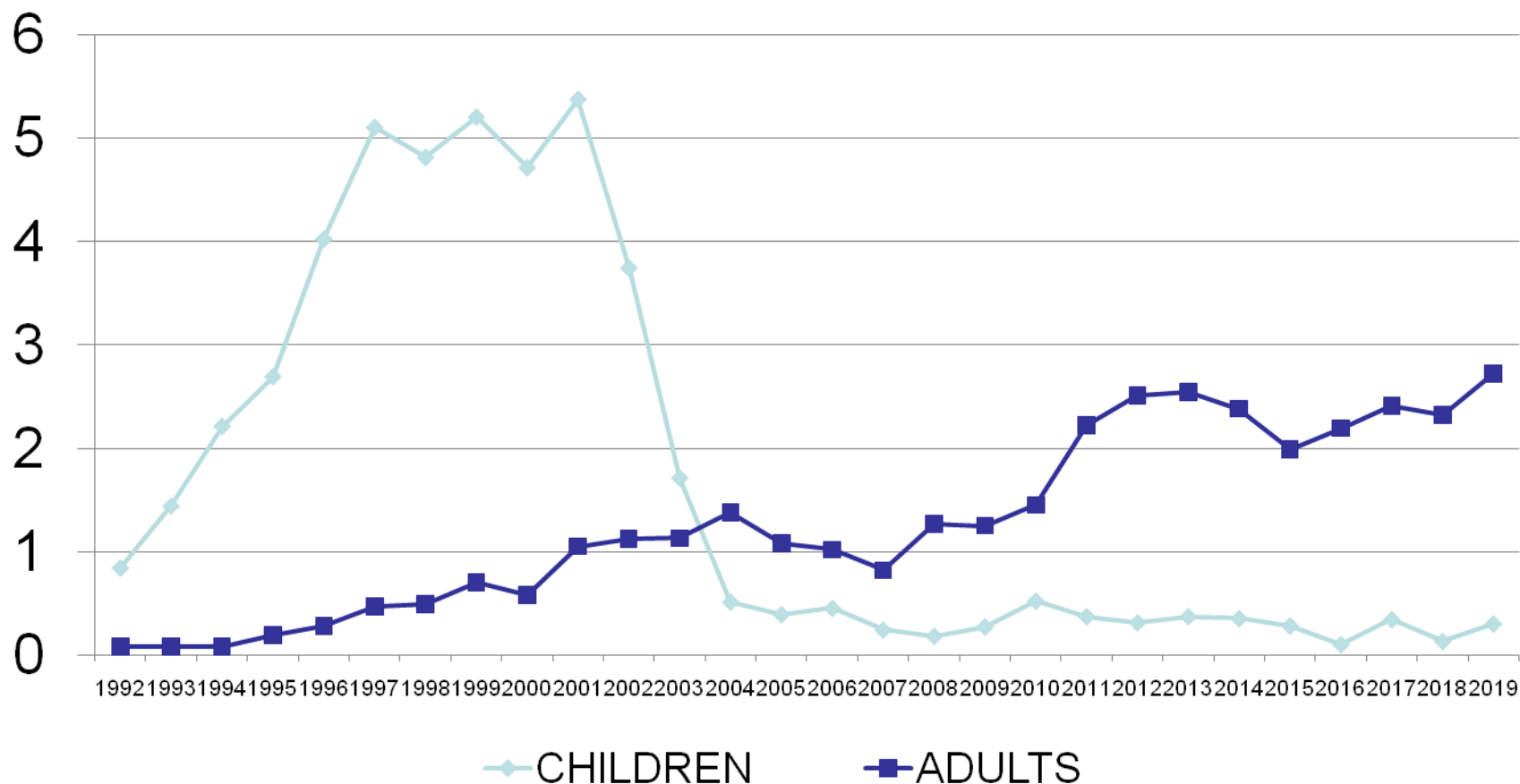


MINISTRY OF HEALTH
National Institute for Infectious Diseases “Prof. Dr. Matei Bals”
Compartment for Monitoring and Evaluation of HIV/AIDS Data in Romania

General data at 30 June 2020

| | |
|--|---------------|
| CUMULATIVE HIV/AIDS CASES (CUMULATIVE 1985-2019) <u>OF WHICH:</u> | 25.186 |
| TOTAL AIDS (CUMULATIVE 1985-2020) | 16.866 |
| TOTAL HIV (CUMULATIVE 1992-2020) | 8.320 |
| LOST FROM RECORDS HIV/AIDS CHILDREN+ADULTS | 762 |
| TOTAL NUMBER OF AIDS DEATHS (1985-2020) | 7766 |
| NUMBER OF PLWHA: | 16.658 |
| 0-14 years | 179 |
| 15-19 years | 134 |
| ≥ 20 years | 16.345 |
| NEW HIV/AIDS CASES DETECTED IN 2020: | 159 |
| NEW HIV RECORDED CASES | 97 |
| NEW AIDS RECORDED CASES | 62 |
| HIV/AIDS deaths registered in 2020 | 46 |

HIV incidence rate in adults and children between 1985-2019 (100.000)



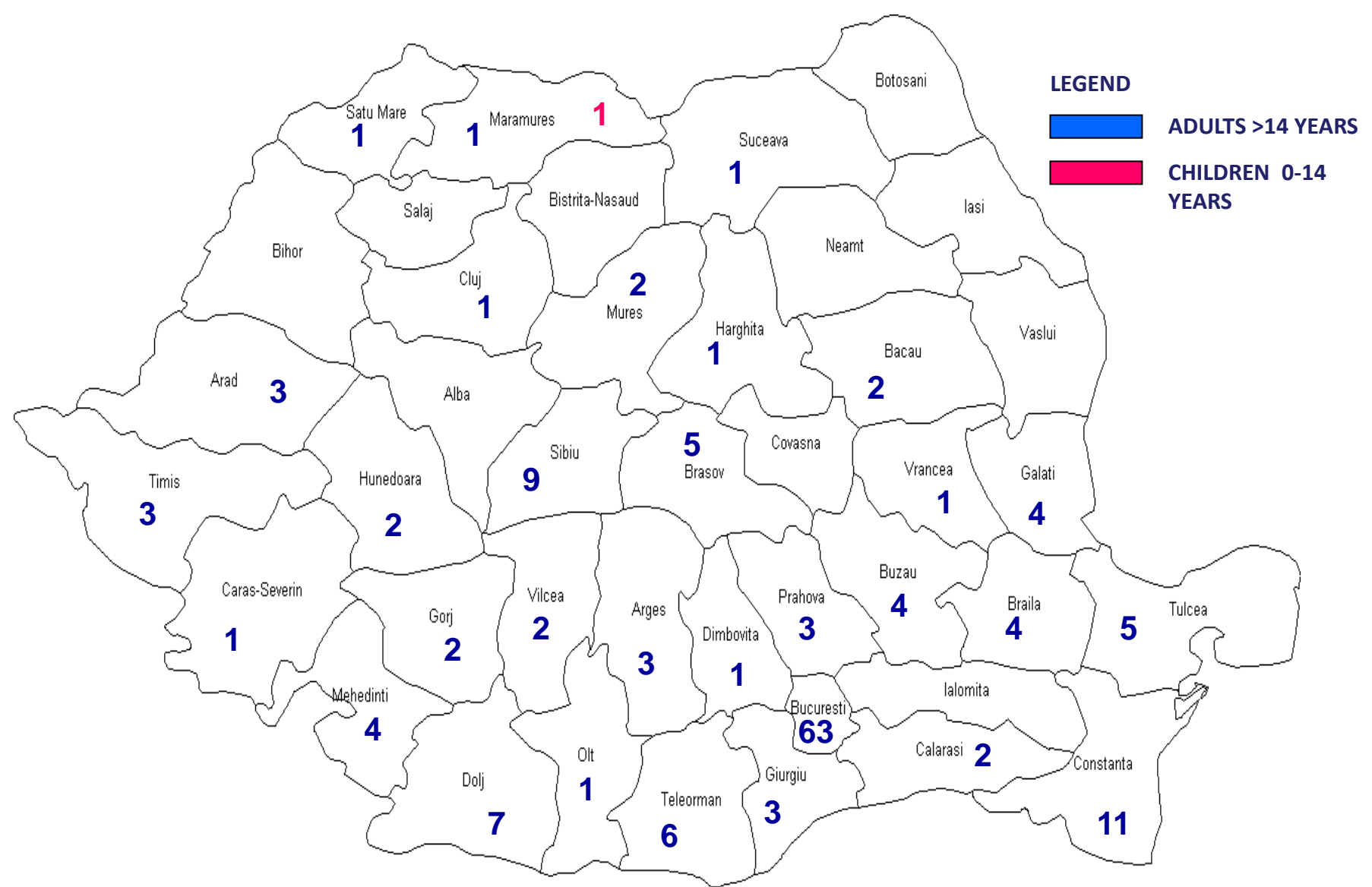
Children 2019: 0.33/100.000

Adults 2019: 2.72/100.000



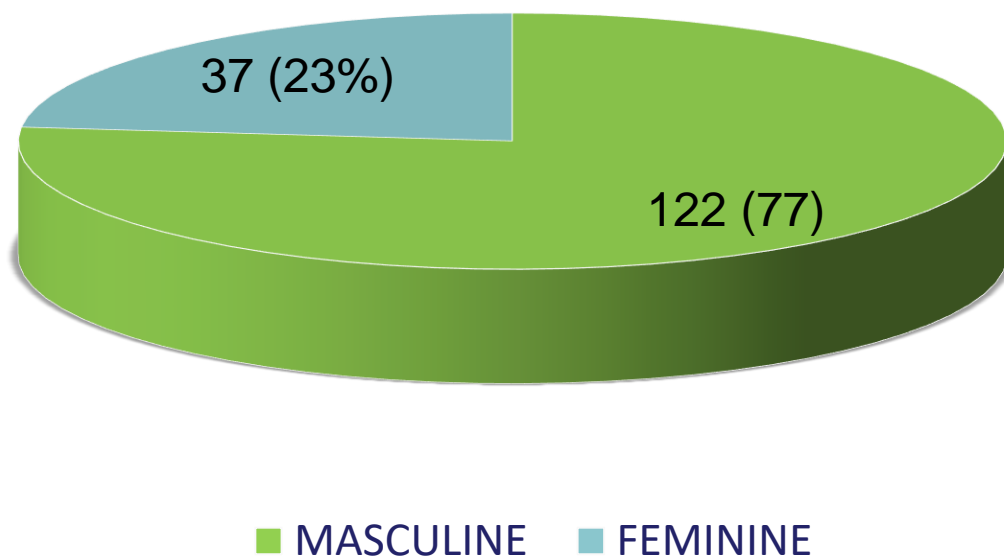
2. New HIV/AIDS cases 1 January – 30 June 2020

Distribution of HIV/AIDS cases, by counties, recorded in 01-30.06.2020

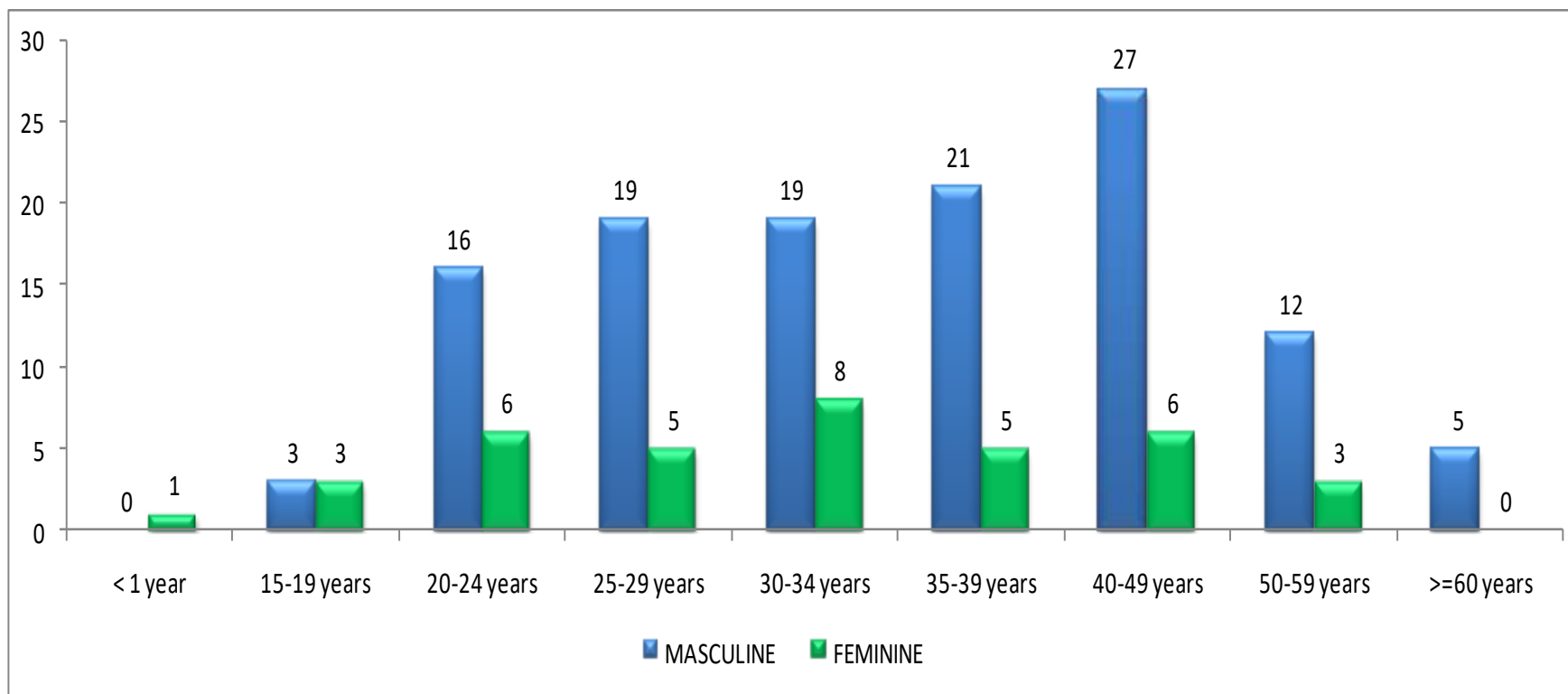


Source: Compartment for Monitoring and Evaluation of HIV/AIDS Data in Romania – INBI “Prof.Dr.M.Balș”

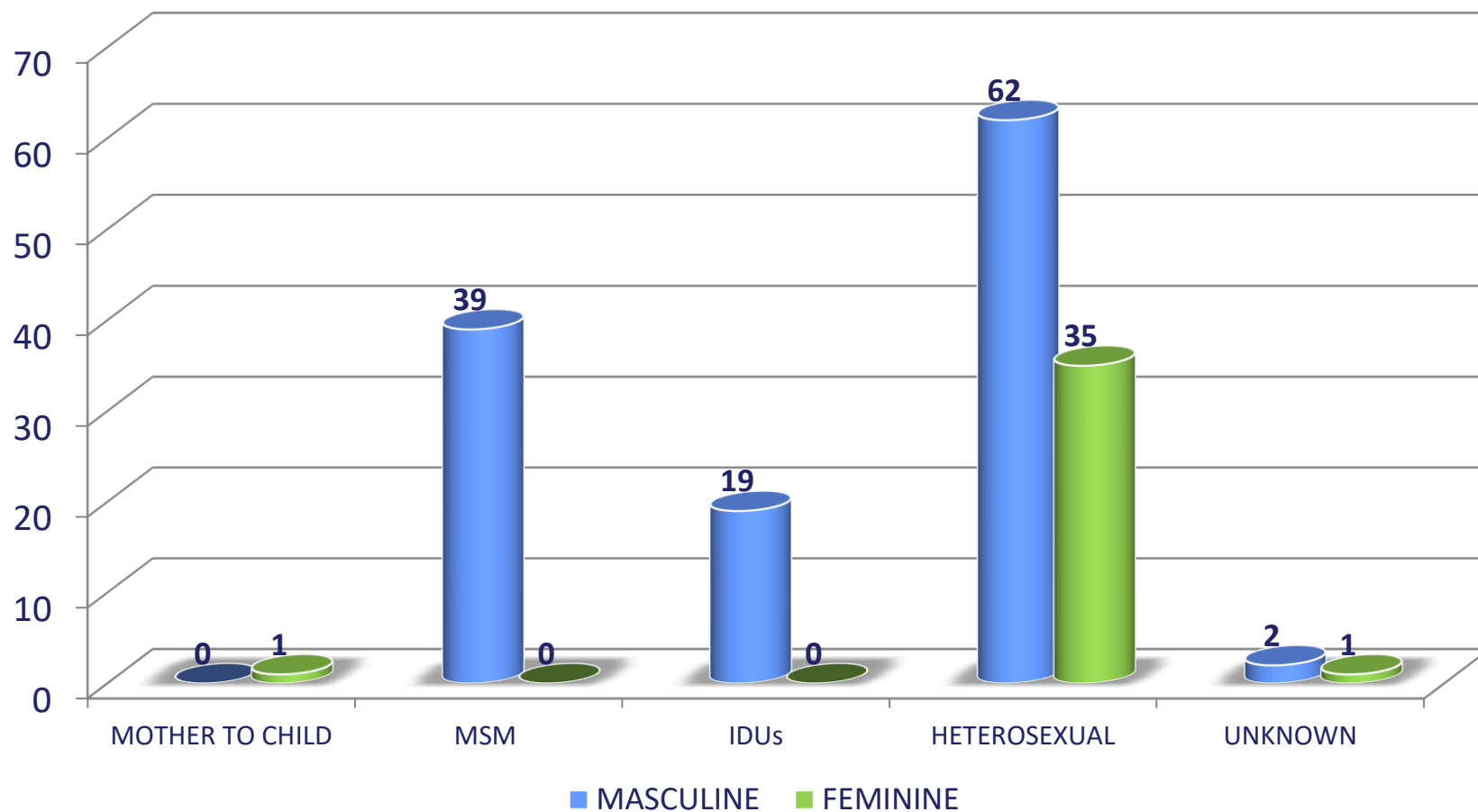
Distribution of new HIV/AIDS cases by sex, registered in 01.01-30.06.2020



Distribution of new HIV/AIDS cases by age group and sex registered in 01.01-30.06.2020



Distribution of HIV/AIDS cases, by way of transmission, registered between 01.01-30.06.2020



**New cases of HIV/AIDS infection registered in the national HIV data base between 2009-2020 vs.
New HIV/AIDS cases in injecting drug users registered in the national HIV data base between 2009-2020**

| CRITERION | YEAR | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|------------------------|------|
| | 2009 | | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | | 2019 | | 01.01-30.06.2020 | |
| | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs | TOTAL L of which | IDUs |
| Number of HIV cases | 252 | 6 | 285 | 7 | 400 | 95 | 470 | 151 | 529 | 144 | 486 | 84 | 438 | 71 | 440 | 52 | 459 | 59 | 436 | 49 | 470 | 38 | 97 | 11 |
| Number of AIDS cases | 311 | 6 | 303 | 13 | 395 | 71 | 468 | 158 | 495 | 185 | 458 | 136 | 448 | 130 | 387 | 94 | 349 | 65 | 346 | 45 | 361 | 50 | 62 | 9 |
| TOTAL no. of HIV/AIDS cases | 563 | 12 | 588 | 20 | 795 | 166 | 938 | 309 | 1024 | 329 | 944 | 220 | 886 | 201 | 827 | 146 | 808 | 124 | 782 | 94 | 831 | 88 | 159 | 20 |



3. HIV testing in the general population and in risk groups 2020

HIV testing* in risk groups 1 January-30 June 2020

| Risk group | Negative tests | Positive tests | TOTAL | %POZITIV |
|--------------------------------------|----------------|----------------|-------|----------|
| STDs | 46 | 0 | 46 | 0.00 |
| TBC | 779 | 3 | 782 | 0.38 |
| MATERNITY | 24 | 1 | 25 | 4.00 |
| TESTING IN PREGNANT WOMEN | 20843 | 6 | 20849 | 0.03 |
| HEALTHCARE STAFF | 1451 | 0 | 1451 | 0.00 |
| PTS. ON HEMAODIALYSIS | 702 | 0 | 702 | 0.00 |
| TRANSFUSED PTS. | 10 | 0 | 10 | 0.00 |
| PRENUPTIAL CHECK-UP | 449 | 0 | 449 | 0.00 |
| DRUG USERS | 0 | 0 | 0 | 0.00 |
| INMATES | 22 | 0 | 22 | 0.00 |
| MEN WHO HAVE SEX WTH MEN | | 0 | 0 | 0.00 |
| COMMERCIAL SEX | 12 | 0 | 12 | 0.00 |
| HIV CONTACTS (UNSAFE SEXUAL CONTACT) | 29 | 4 | 33 | 12.12 |
| SAILORS | | 0 | 0 | 0.00 |
| DRIVERS | 431 | 0 | 431 | 0.00 |
| WORK ABROAD> 6 MONTHS | 44 | 0 | 44 | 0.00 |
| STAY ABROAD > 6 MOTNHS | 245 | 1 | 246 | 0.00 |
| TESTING BY REQUEST | 8814 | 27 | 8841 | 0.31 |
| OCCASIONAL TESTING | 6811 | 85 | 6896 | 1.23 |
| TOTAL | 40712 | 127 | 40839 | 0.31 |

*The data is transmitted by the County Public Health Authorities and represent the number of tests performed.

HIV testing* in pregnant women 1 January-30 June 2020

| Age group | Negative tests | Positive tests | TOTAL | %POZITIV |
|-----------------------|----------------|----------------|-------|----------|
| 12-14 years | 164 | | 164 | 0.00 |
| 15-19 years | 2224 | | 2224 | 0.00 |
| 20-24 years | 4381 | 1 | 4382 | 0.02 |
| 25-29 years | 5666 | 2 | 5668 | 0.04 |
| 30-34 years | 4974 | 2 | 4976 | 0.04 |
| 35-39 years | 2355 | 1 | 2356 | 0.04 |
| > 40 years | 663 | | 663 | 0.00 |
| Unspecified age group | 416 | | 416 | 0.00 |
| TOTAL | 20843 | 6 | 20849 | 0.03 |

*The data is transmitted by the County Public Health Authorities and represent the number of tests performed.

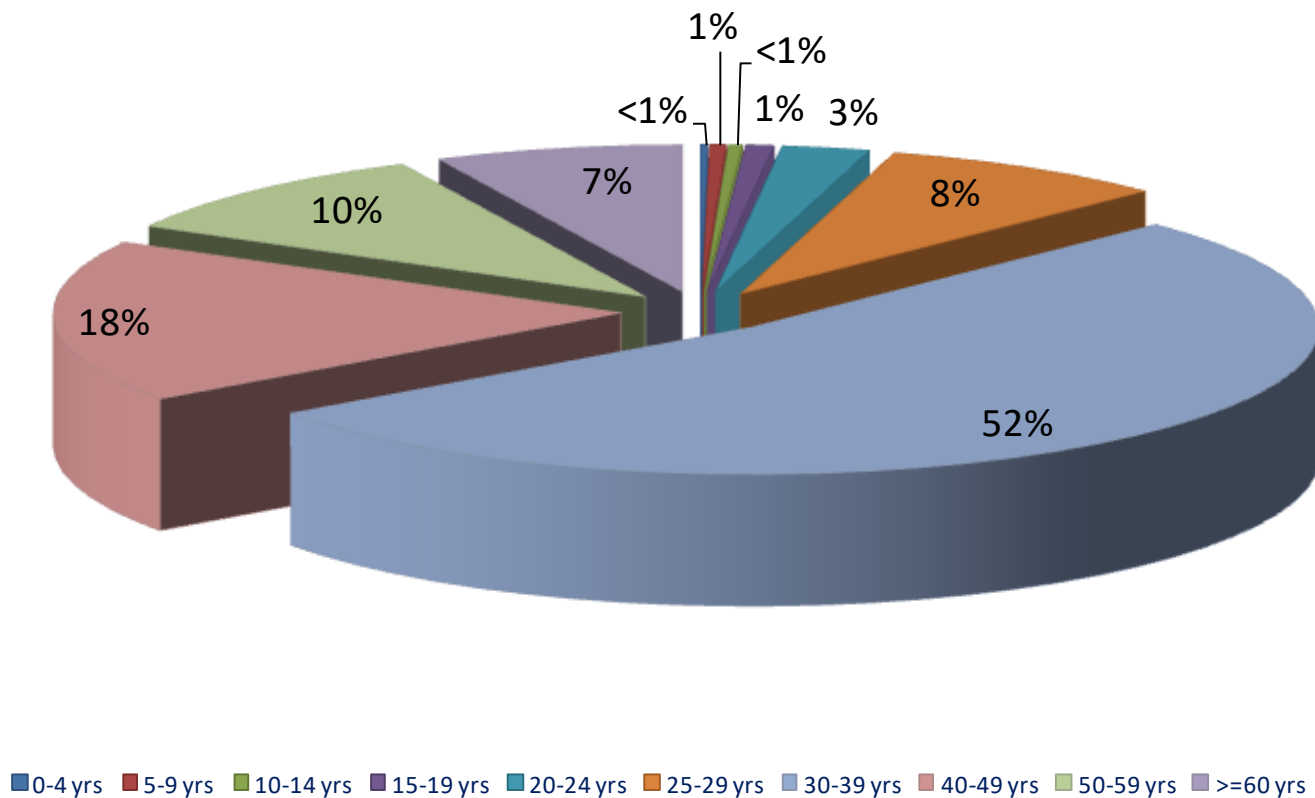


4. HIV/AIDS dynamics in Romania 1985-2020

Distribution of HIV/AIDS cases by sex and current age
30 June 2020
(cumulative total 1985-2020)

| AGE GROUP | SEX | | TOTAL |
|-------------------|--------------|-------------|--------------|
| | MASCULINE | FEMININE | |
| < 1 year | 1 | 2 | 3 |
| 1-4 years | 14 | 18 | 32 |
| 5-9 years | 39 | 39 | 78 |
| 10-12 years | 26 | 26 | 52 |
| 13-14 years | 6 | 8 | 14 |
| 15-19 years | 53 | 81 | 134 |
| 20-24 years | 245 | 171 | 416 |
| 25-29 years | 839 | 538 | 1377 |
| 30-34 years | 3945 | 2995 | 6940 |
| 35-39 years | 1279 | 511 | 1790 |
| 40-49 years | 1949 | 1043 | 2992 |
| 50-59 years | 1000 | 654 | 1654 |
| 60 years and over | 755 | 421 | 1176 |
| TOTAL | 10151 | 6507 | 16658 |

Distribution of HIV/AIDS cases by age group and current age
30 June 2020
(cumulative total 1985-2020)



Tendencies in ways of transmission

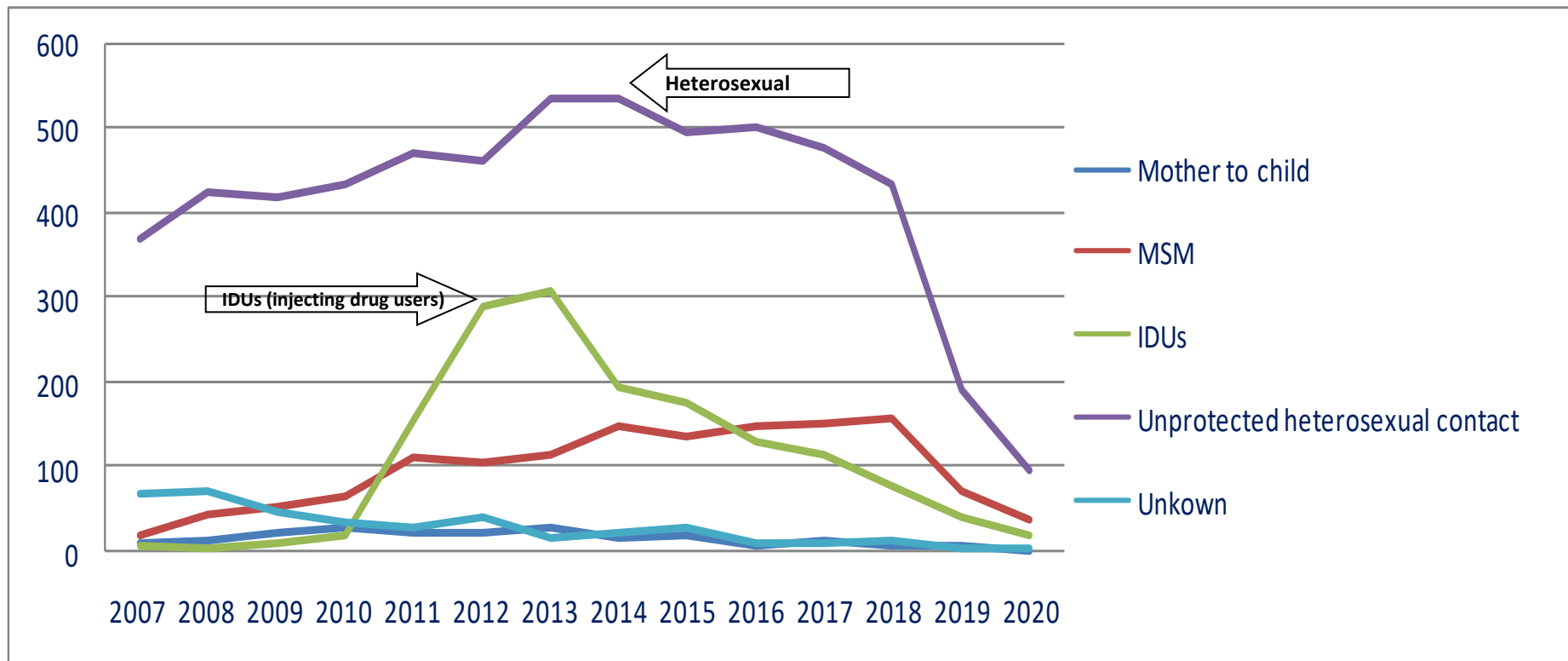
Romania 2007-2020*

| Ways of transmission | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 30 June 2020 |
|--------------------------------|----------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|
| Mother to child transmission** | 9 (1.9%) | 13 (2.3%) | 23 (4%) | 27 (4.6%) | 22 (2.8%) | 21 (2.2%) | 28 (2.7%) | 17 (1.8%) | 19 (2.1%) | 6 (0.7%) | 14 (1.7%) | 7 (0.9%) | 13 (1.6%) | 1 (0.6%) |
| MSM | 19 (4%) | 44 (8%) | 54 (9.6%) | 68 (11.6%) | 104 (13%) | 101 (10.8%) | 107 (10.4%) | 141 (15%) | 134 (15%) | 148 (18%) | 155 (19.4%) | 172 (22.4%) | 192 (24%) | 39 (24.5%) |
| Injecting drug users | 9 (1.9%) | 4 (0.7%) | 11 (2%) | 18 (3%) | 159 (20%) | 302 (32.3%) | 319 (31.3%) | 210 (22.4%) | 191 (21.6%) | 143 (17.5%) | 120 (15%) | 90 (11.7%) | 86 (10.8%) | 18 (11.3%) |
| MSM/IDU | 1 (0.2%) | | 1 (0.2%) | 1 (0.2%) | 7 (1%) | 7 (0.7%) | 9 (1%) | 9 (1%) | 10 (1.1%) | 3 (0.4%) | 4 (0.5%) | 3 (0.4%) | 1 (0,1) | 1 (0.6%) |
| Heterosexual | 373 (77.7%) | 428 (76%) | 424 (75.5) | 436 (74.6%) | 472 (59.6%) | 464 (49.6%) | 542 (53.1%) | 541 (57.6%) | 501 (57%) | 510 (62,2%) | 499 (62.2%) | 481 (62.6%) | 490 (62%) | 97 (61%) |
| Unknown | 69 (14.3%) | 73 (13%) | 49 (8.7%) | 34 (6%) | 28 (3.6%) | 41 (4.4%) | 15 (1.5%) | 21 (2.2%) | 28 (3.2%) | 10 (1.2%) | 10 (1.2%) | 15 (2%) | 12 (1.5%) | 3 (2%) |
| Total | 480 | 562 | 562 | 584 | 792 | 936 | 1020 | 939 | 883 | 820 | 802 | 768 | 794 | 159 |

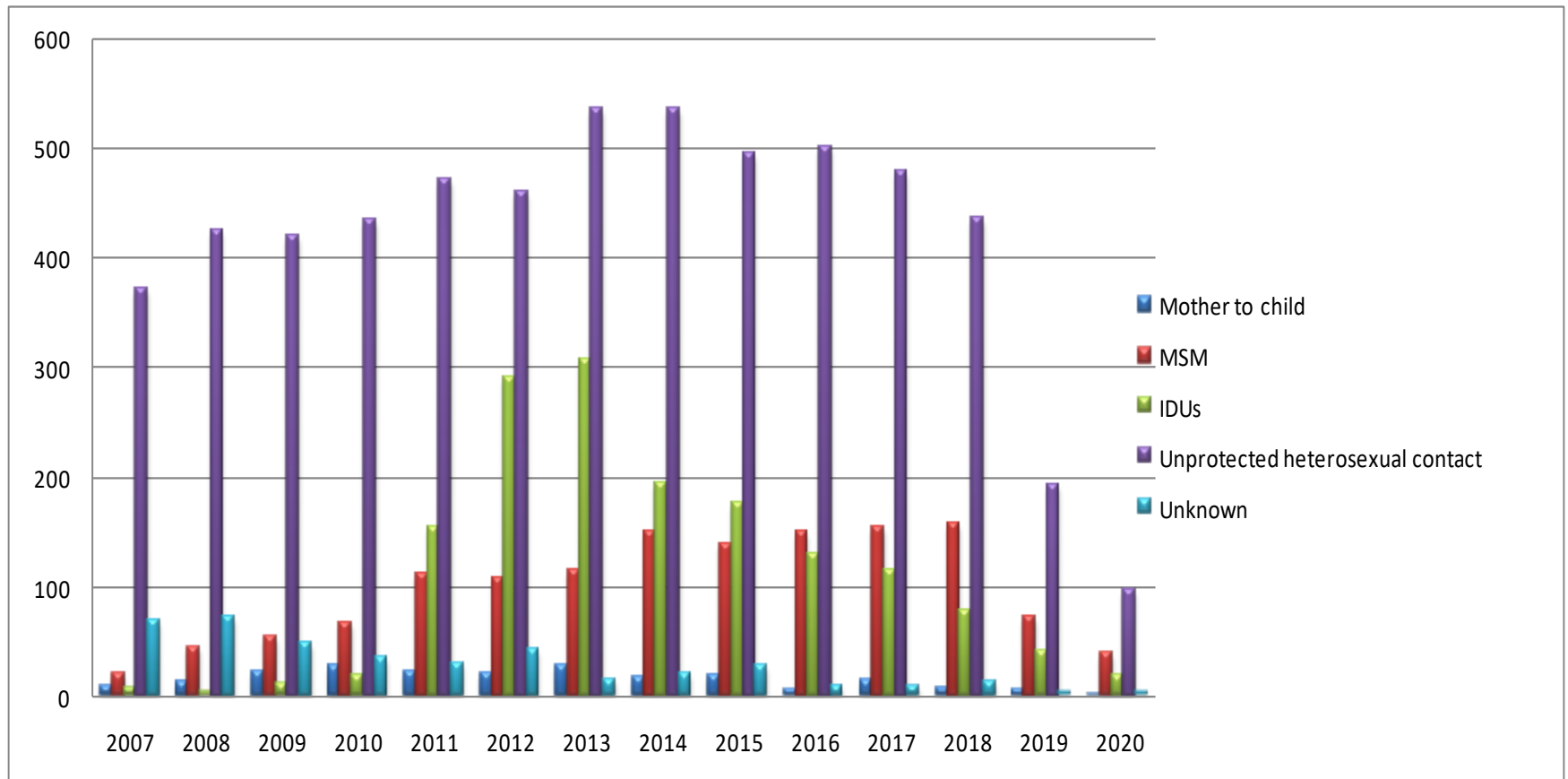
*Updates, including case reporting and late reporting, are performed annually.

** Newborns perinatally exposed to HIV with “HIV infected” status in 2019 and children under surveillance from the previous years and confirmed in 2019.

Tendencies in ways of transmission Romania 2007-2020



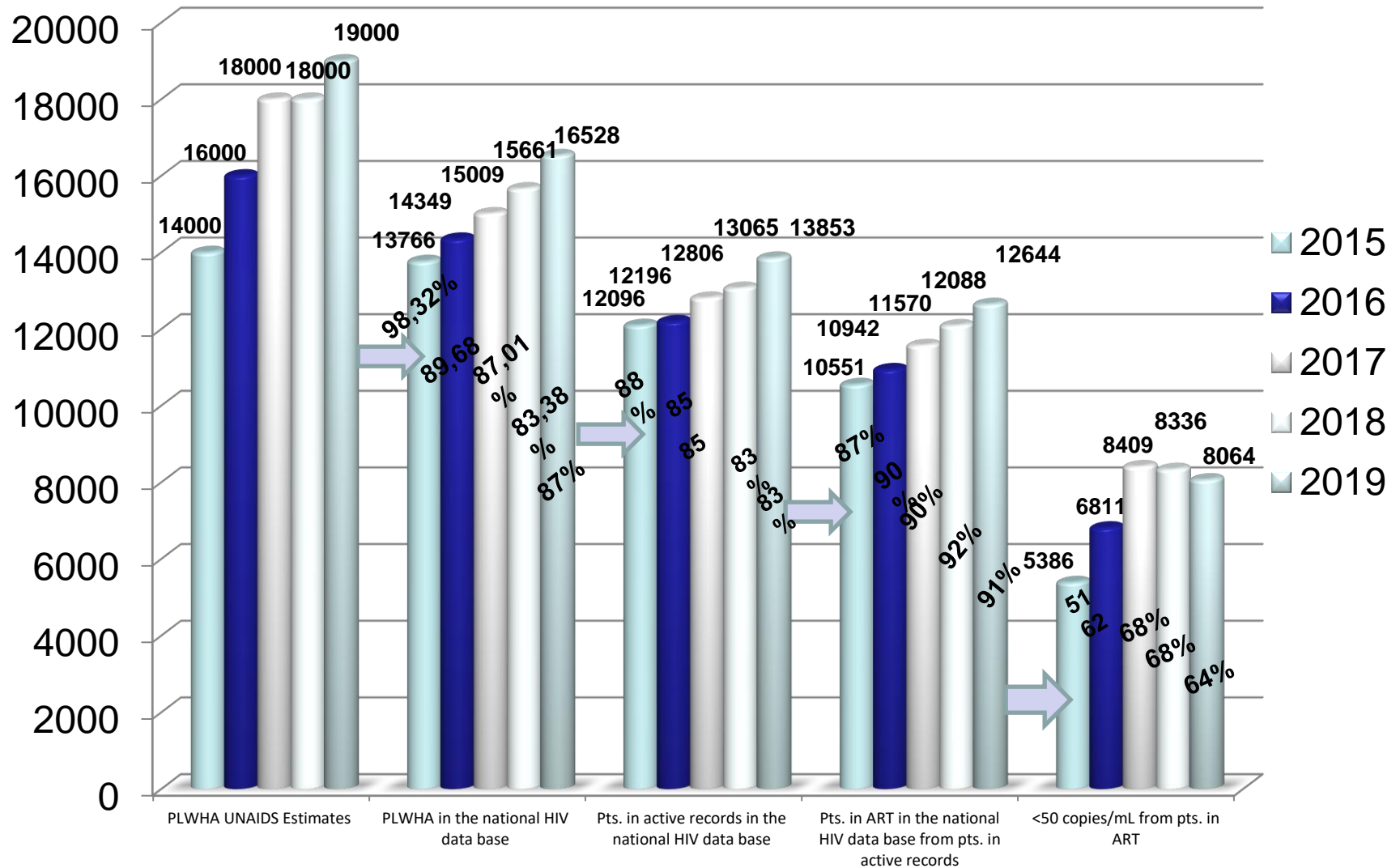
Tendencies in ways of transmission Romania 2007-2020





5. Cascade of cares Romania 2019

Cascade of HIV cares in Romania 2015-2019



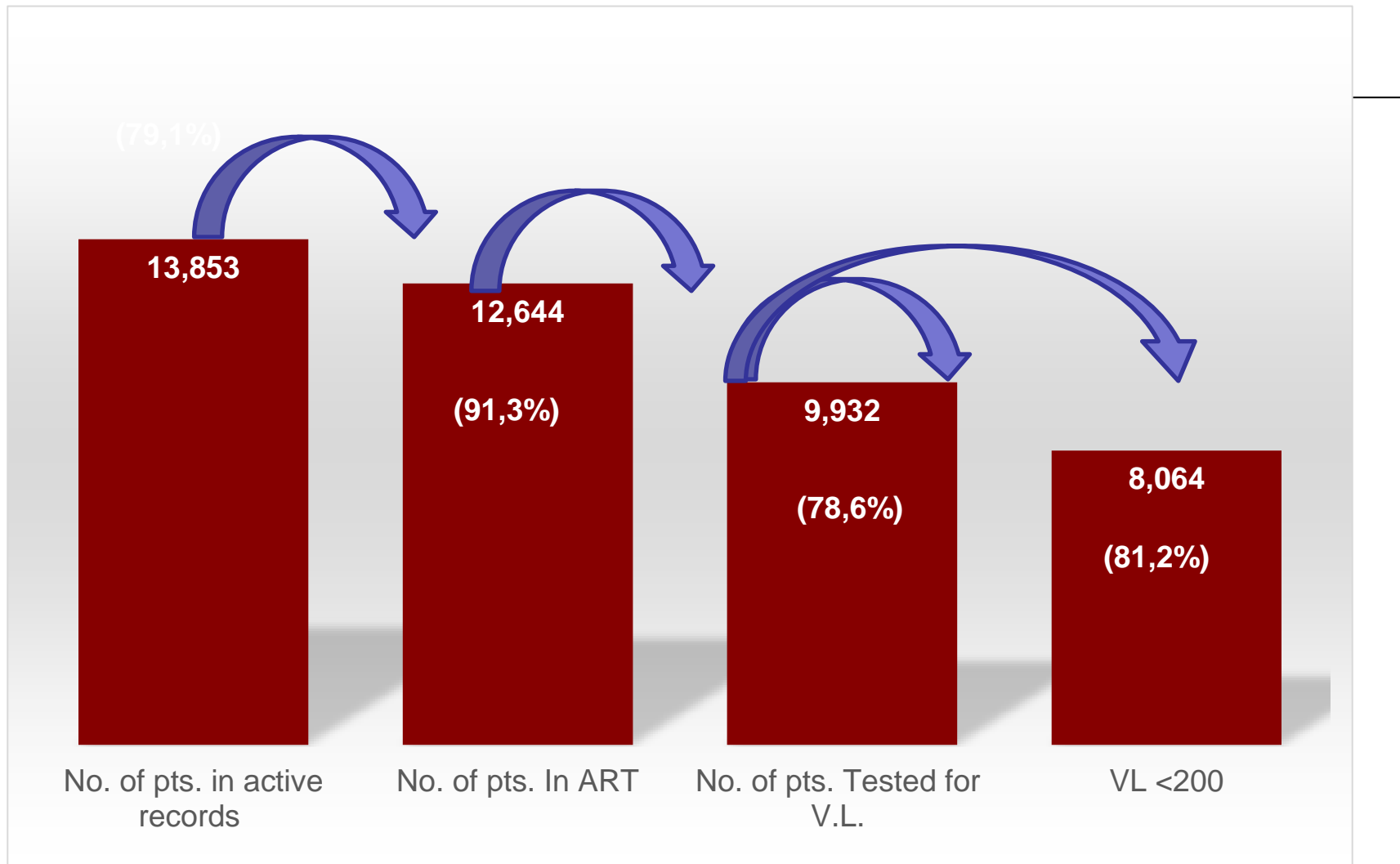
*2017; 2018; 2019 V.L. < 200 copies/ml

Source: Compartment for Monitoring and Evaluation of HIV/AIDS Data in Romania

www.cnlas.ro

Cascade of cares Romania

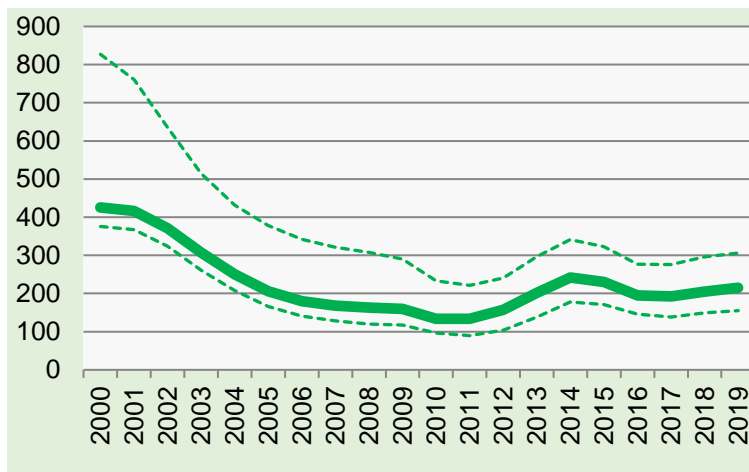
31 December 2019



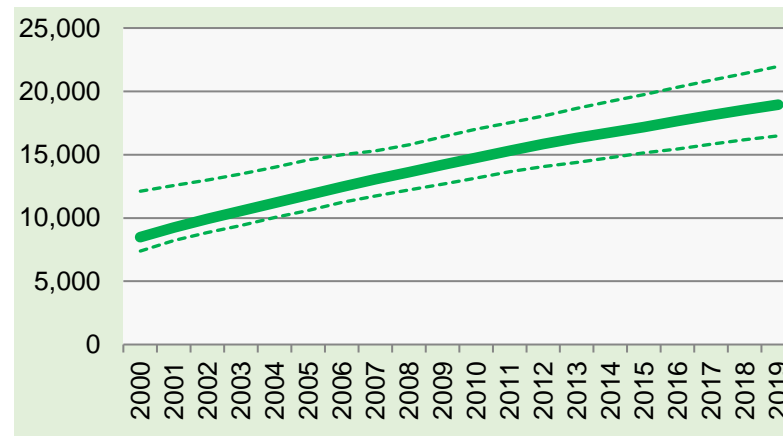
*Reactualizarea datelor cu intarzierile in raportarea si confirmarea cazurilor se face anual

UNAIDS Estimates Romania 2000 - 2019

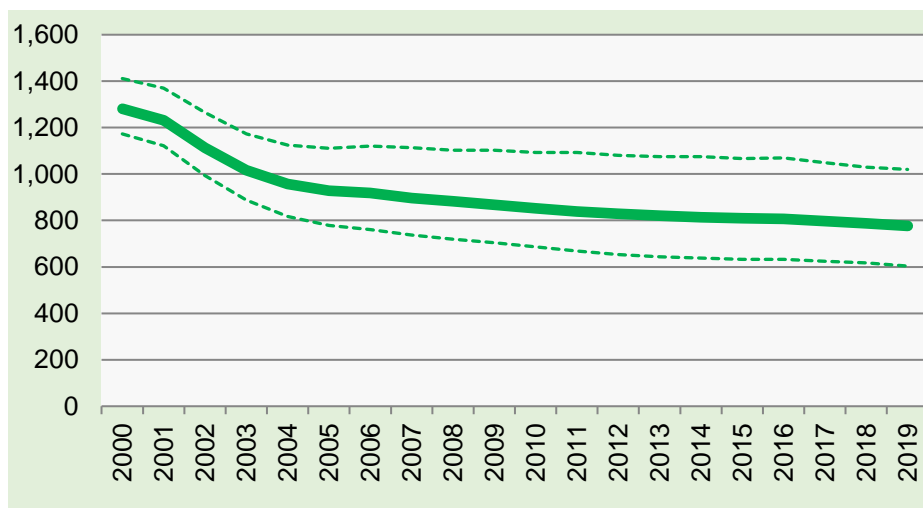
AIDS Deaths



Number of people living with HIV

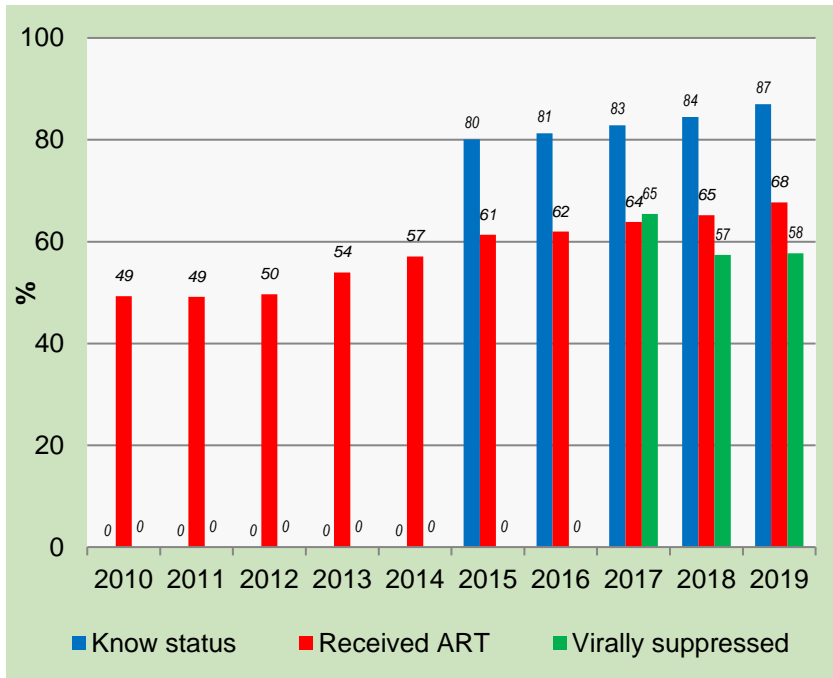


New HIV Infections

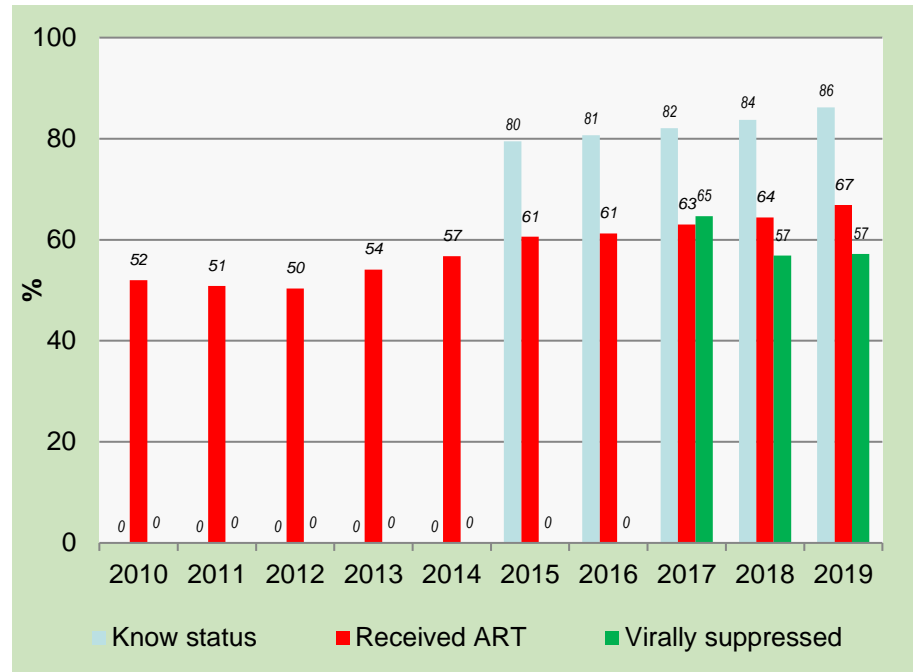


HIV estimates - treatment graphs 2010-2019

All ages

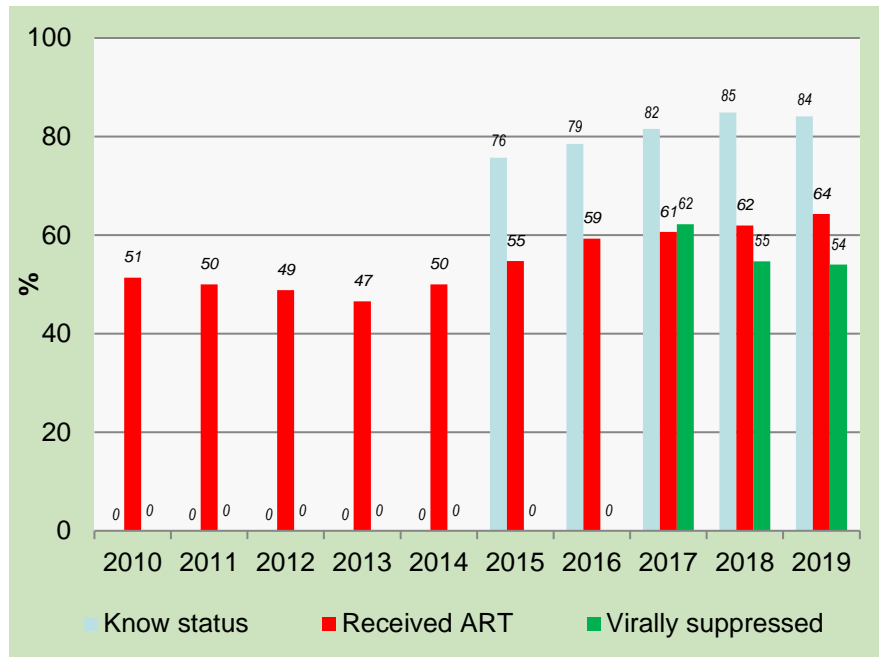


Adults 15+

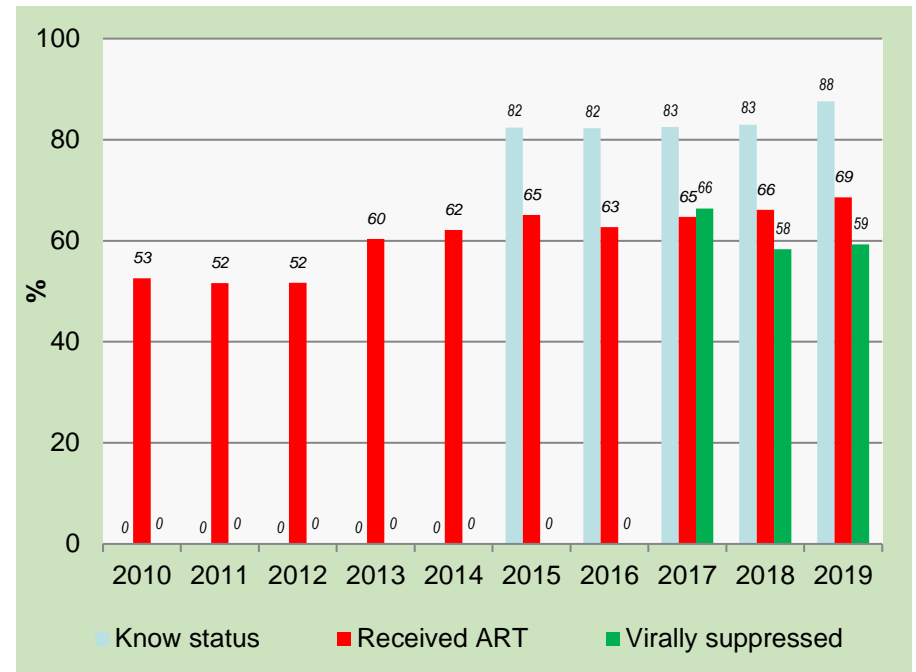


HIV estimates - treatment graphs 2010-2019

Women 15+

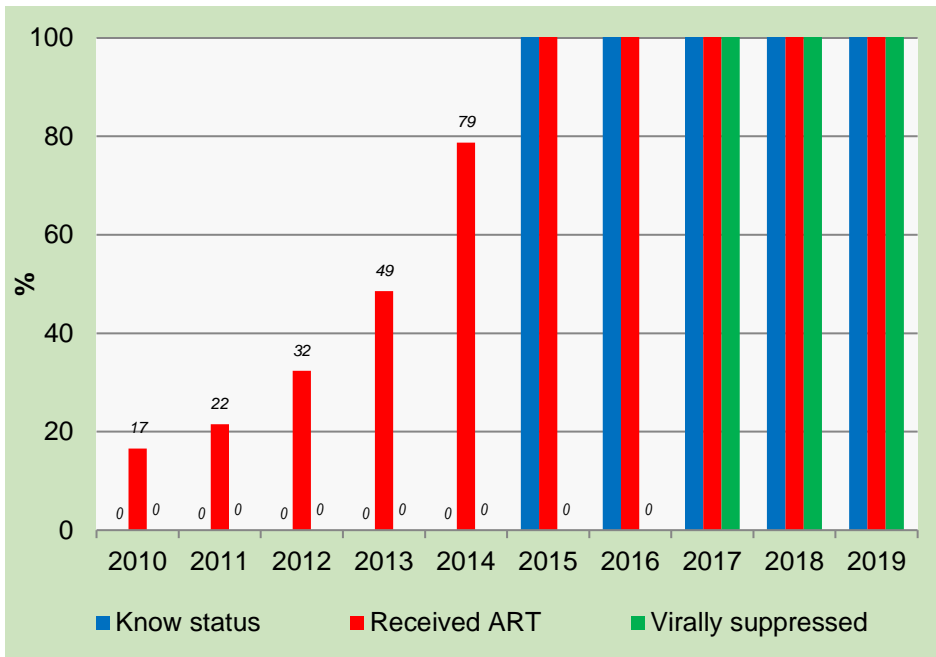


Men 15+

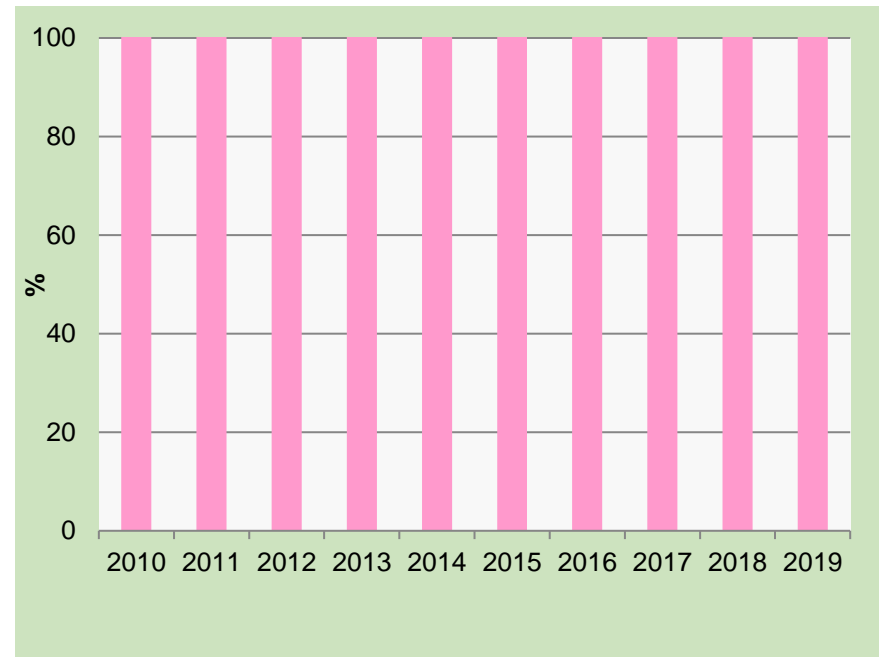


HIV estimates - treatment graphs 2010-2019

Children (0-14)



PMTTC Coverage





6. HIV/AIDS global figures

HIV cases diagnosed in the WHO European Region in 2018

| | WHO European Region | West | Centre | East | EU/EEA |
|---|---------------------|--------|--------|---------|--------|
| Reporting countries/number of countries ^a | 50/53 | 23/23 | 15/15 | 12/15 | 31/31 |
| Number of new HIV diagnoses | 141 552 | 23 483 | 6 519 | 111 550 | 26 164 |
| Rate of HIV diagnoses per 100 000 population ^b | 16.2 | 6.0 | 3.3 | 44.8 | 5.6 |
| Percentage age 15–24 years | 8.8% | 10.3% | 13.5% | 6.0% | 10.6% |
| Percentage age 50+ years | 17.5% | 21.4% | 14.8% | 14.6% | 19.8% |
| Male-to-female ratio | 1.8 | 2.9 | 5.6 | 1.6 | 3.1 |
| Transmission mode | | | | | |
| Sex between men | 22.6% | 40.7% | 28.3% | 4.4% | 39.8% |
| Heterosexual transmission (men) | 25.9% | 15.8% | 20.5% | 36.6% | 15.6% |
| Heterosexual transmission (women) | 23.8% | 18.0% | 7.5% | 33.4% | 16.9% |
| Injecting drug use | 11.8% | 3.1% | 2.5% | 22.1% | 3.7% |
| Mother-to-child transmission | 0.6% | 0.7% | 0.4% | 0.6% | 0.7% |
| Unknown | 15.0% | 21.2% | 40.7% | 2.8% | 22.7% |
| AIDS and Late HIV Diagnosis | | | | | |
| Percentage new HIV diagnoses CD4 <350 cells/mm ³ | 52.8% | 48.8% | 54.6% | 55.5% | 49.4% |
| Number of new AIDS diagnoses ^c | 14 227 | 2 549 | 857 | 10 821 | 3 235 |
| Rate of AIDS diagnoses per 100 000 population | 2.0 | 0.6 | 0.4 | 10.5 | 0.6 |

a No data received from the Tajikistan, Turkmenistan and Uzbekistan.

b EU/EEA and West rates are adjusted for reporting delay (Annex 6); the corresponding estimated number of new diagnoses adjusted for reporting delay are 28 432 and 25 633, respectively.

c No data received from Sweden, Tajikistan, Turkmenistan and Uzbekistan.

Global HIV & AIDS statistics — 2020 fact sheet

- 25.4 million [24.5 million–25.6 million] people were accessing antiretroviral therapy in 2019.
- 38.0 million [31.6 million–44.5 million] people globally were living with HIV in 2019.
- 1.7 million [1.2 million–2.2 million] people became newly infected with HIV in 2019.
- 690 000 [500 000–970 000] people died from AIDS-related illnesses in 2019.
- 75.7 million [55.9 million–100 million] people have become infected with HIV since the start of the epidemic.
- 32.7 million [24.8 million–42.2 million] people have died from AIDS-related illnesses since the start of the epidemic.

People living with HIV

- In 2019, there were 38.0 million [31.6 million–44.5 million] people living with HIV.
- 36.2 million [30.2 million–42.5 million] adults.
- 1.8 million [1.3 million–2.2 million] children (0–14 years).
- 81% [68–95%] of all people living with HIV knew their HIV status.
- About 7.1 million people did not know that they were living with HIV.

New HIV infections

- New HIV infections have been reduced by 40% since the peak in 1998.
 - In 2019, around 1.7 million [1.2 million–2.2 million] people were newly infected with HIV, compared to 2.8 million [2.0 million–3.7 million] people in 1998.
- Since 2010, new HIV infections have declined by 23%, from 2.1 million [1.6 million–2.9 million] to 1.7 million [1.2 million–2.2 million] in 2019.
 - Since 2010, new HIV infections among children have declined by 52%, from 310 000 [200 000–500 000] in 2010 to 150 000 [94 000–240 000] in 2019.

Compartment for Monitoring and Evaluation of HIV/AIDS Data in Romania



| | |
|---|---------------------------------|
| Manager INBI Prof. Dr. Matei Balș | Prof. Dr. Adrian Streinu-Cercel |
| Coordinator | Dr. Mariana Mărdărescu MD PhD |
| Coordinator of the HIV Adult's Programme | Lecturer Otilia Benea MD PhD |
| Coordinator of the HIV Children's Programme | Sorin Petrea MD |
| Statistical data operators | |
| PC Operators | As. Med Marieta Iancu |
| | Daniela Vițelaru |
| | Sanda Vintilă |
| Colaborators | Dr. Ionel Iosif |
| | Claudiu Șchiopu IT Tessy |
| | UATM |
| | Romanian HIV/AIDS Center |