

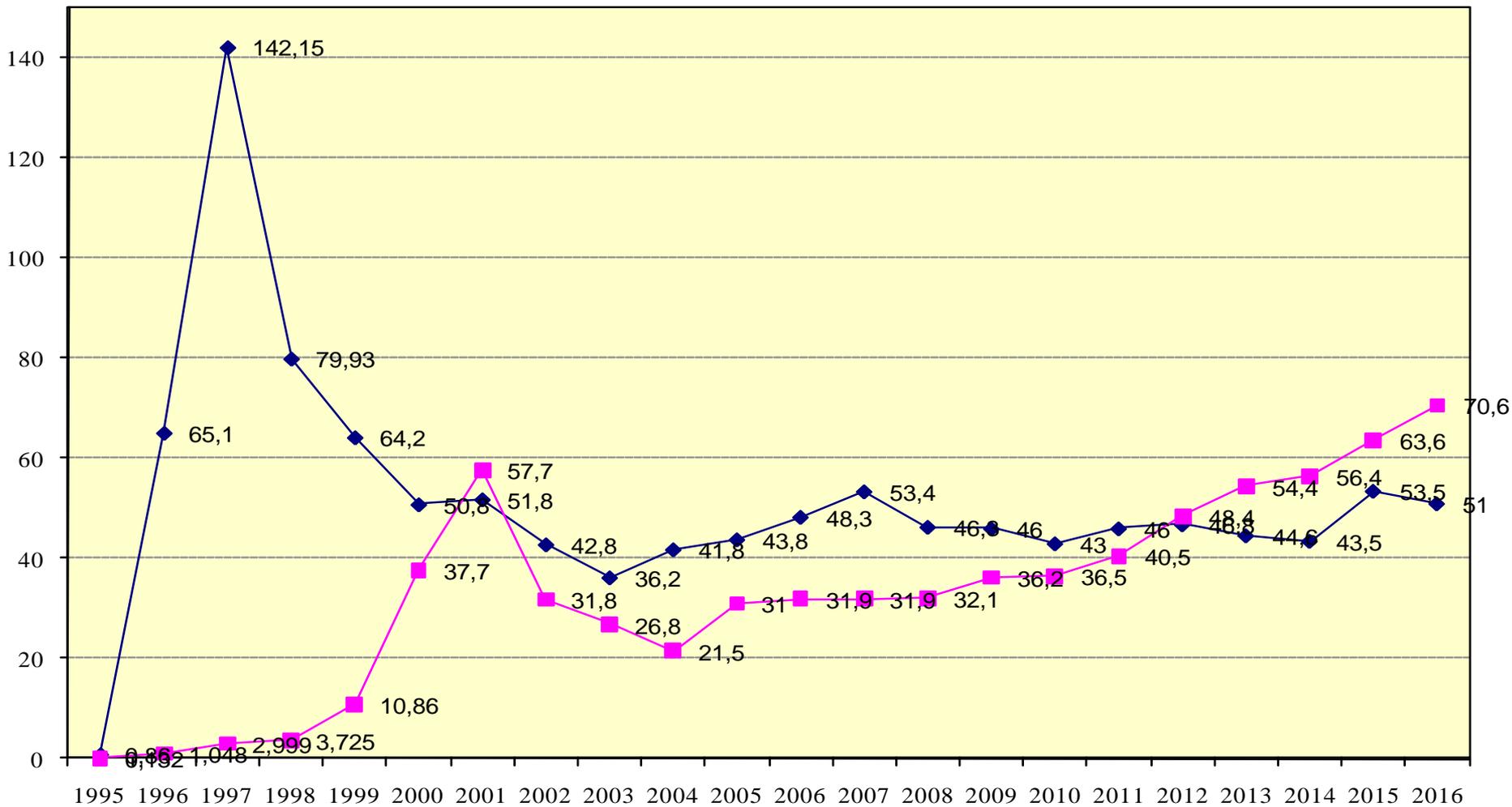
# **HIV situation in Kaliningrad Region**

**Inter-regional international conference  
“Collaboration across healthcare and social services  
in prevention of mother-to-child HIV infection  
13-14 June 2017**

*Dr. Nikolai Cherkes, Vice Chief Doctor of the Kaliningrad Regional Infectious  
Disease Hospital and Director of the Kaliningrad Regional AIDS Centre*

**1996-2016 -  
two decades of the HIV  
incidence growth in  
Kaliningrad Region**

Динамика заболеваемости ВИЧ-инфекцией в Калининградской области и Российской Федерации за весь период эпидемии (период 1995-2016 г.г.)



## Tendencies in the epidemic process (per 100,000 population)

	Max rates in the initial period of the epidemic	Rates of the last year	+ -
Kaliningrad Region	Year 1997 - 142,2	51,0	<b>- 2,8 times</b>
Russia	Year 2001 - 57,7	70,6	<b>+22,4%</b>
+ -	<b>+2,5 times</b>	<b>- 27,8%</b>	

## HIV incidence and prevalence rates in Kaliningrad Region and Russia in 2016 (per 100,000 population)

	Incidence	Prevalence
Kaliningrad Region	51,0	608,4
Russia	70,6	594,3
+ - Kaliningrad Region versus Russian average	<b>-27,8%</b>	<b>+2,4%</b>

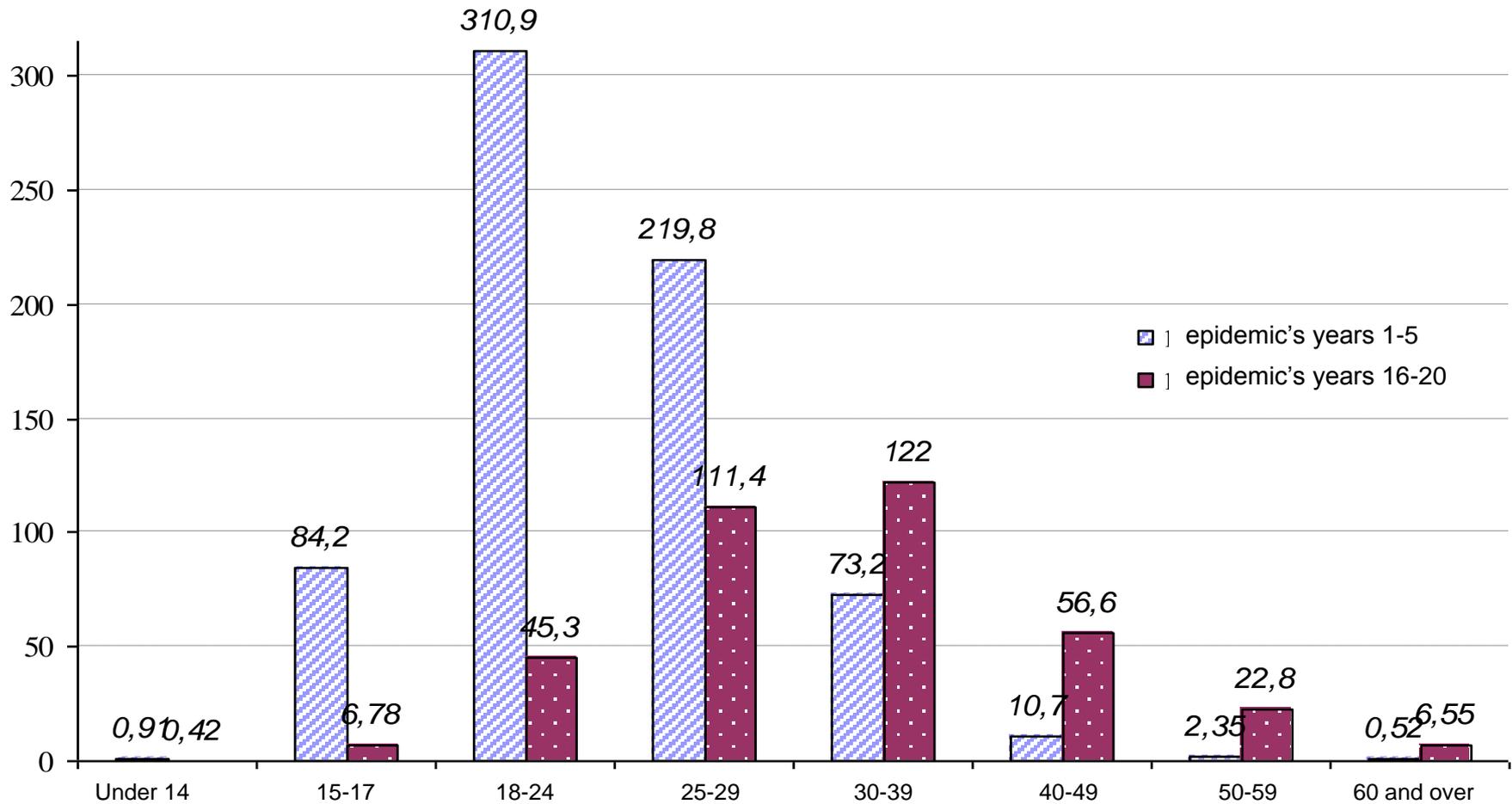
## HIV incidence processes in Kaliningrad Region in different age groups

Age groups	Per 100,000 of this age group		+ - p.
	1-5	16-20	
Children under 14 yo	0,91	0,42	-2,2p.
15-17	84,2	6,78	-12,4p.
18-24	310,9	45,3	-6,9p.
25-29	219,8	111,4	-1,97p.
30-39	73,2	122,0	+66,7%
40-49	10,7	56,6	+5,3p.
50-59	2,35	22,8	+9,7p.
60 and over	0,52	6,55	+12,6p.
<b>Total</b>	<b>66,2</b>	<b>49,6</b>	<b>-25,1%</b>

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HIV incidence rates in Kaliningrad Region in different age groups (years 1-5 of the epidemic and 16-20)



## Dynamics of the average age of the HIV patient over the 20 years of the epidemic

Years of the epidemic	Males	Females	Both sexes
1-5	25y.5m.12d	24y.9m.8d.	25y.3m.
6-10	29.6m.-	26l.8m.9d.	28y4m.3d.
difference	+4y.718days	+1y.11m.11d.	+3y.1m.1d.
1-5	25y.5m.12d.	24y.9m.8d.	25y.3m.
11-15	32y.18d.	30y.3m.11d.	31y.3m.11d.
difference	+6y.7m.6d	+5y.6m.3d.	+6y.11d.
1-5	25y.5m.12d.	24y.9m.8d.	25y.3m.
16-20	35y.11m.2d	34y.5m.9d.	35y.3m.1d
difference	+10y.5m.20d	+9y.8m.1d	10y.1d.

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## HIV INCIDENCE BY AGE GROUP IN 2016 (PER 1,000 OF THE AGE GROUP)

	PER 1,000 OF THE AGE GROUP			
	Males		Females	
	number	*	number	*
1 - 14	1	0,6	0	0
15 - 19	1	2,2	10	<b>22,2</b>
20 - 24	13	20,7	12	19,1
25 - 29	48	<b>59,0</b>	29	35,6
30 - 34	57	<b>70,6</b>	47	<b>58,2</b>
35 - 39	61	<b>82,0</b>	35	<b>47,1</b>
40 - 44	35	49,7	30	<b>42,6</b>
45 - 49	26	41,5	19	30,3
50 - 54	21	30,6	19	<b>37,6</b>
55 - 59	7	9,5	8	<b>11,0</b>
60 and over	6	3,0	9	<b>4,5</b>
Total:	276	28,3	218	22,3

## HIV incidence across Kaliningrad Region – the whole epidemic period and 2016

	Municipality	Per 100,000 (all epidemic period)	Per 100,000 (2016)
1.	Kaliningrad City	<b>1239,6</b>	44,3
2.	Baltiyski Municipality	389,4	30,2
3.	Sovetsk Town	400,4	41,3
4.	Svetlogorski Municipality	845,1	49,7
5.	Yantarnyi Town	461,7	0
6.	Svetlovsk Town	800,1	59,1
7.	Pionersky Town	488,0	34,9
8.	Bagrationovsky Municipality	634,1	51,3
9.	Ladushkin Town	<b>2024,6</b>	<b>120,5</b>
10.	Mamonovo Town	<b>1861,3</b>	<b>96,7</b>
11.	Gvardeisk Town	1047,8	58,0
12.	Gurjev Town	1180,0	45,8
13.	Gusev Town	795,2	71,6
14.	Zelenograd Town	770,2	49,8
15.	Krasnoznamensk Town	478,4	40,5
16.	Nesterovski Municipality	555,7	44,7
17.	Nemaksi Municipality	695,5	<b>96,5</b>
18.	Ozersk Town	678,8	48,5
19.	Polesski Municipality	602,8	74,7
20.	Pravdinsk Town	868,9	72,4
21.	Slavsk Town	611,6	<b>88,8</b>
22.	Chernyahovski Municipality	657,5	51,2
	Kaliningrad Region	1029,2	51,0

## HIV transmission routes in 2016

	%
<b>IDU</b>	<b>13,6</b>
<b>Sexual</b>	<b>85,1</b>
- hetero	98,0
- homo	2,0
<b>Hospital infection</b>	<b>0</b>
<b>In blood transfusion</b>	<b>0</b>
<b>Mother-to-child</b>	<b>0</b>
<b>Route not identified</b>	<b>1,3</b>
<b>Total:</b>	<b>100,0</b>

	<b>Target indicators</b> (Russian national HIV Strategy 2020)	Unit of measurement	<b>2016 Plan (Russia)</b>	<b>Completeness in Kaliningrad Region</b>
1	<b>Coverage with HIV testing</b>	%	<b>20</b>	<b>19,1</b>
2	<b>Share of persons under follow-up</b>	%	<b>69,1</b>	<b>81,6</b>
3	<b>Share of PLWH who receive ARVT</b>	%	<b>30,3</b>	<b>39,6</b>
4	<b>Share of persons under follow-up who receive ARVT</b>	%	<b>41</b>	<b>49,0</b>
5	<b>Chemotherapy for MTCT prevention:</b> - in pregnancy - in delivery - to an infant	%	<b>89,0</b> <b>93,0</b> <b>99,5</b>	<b>95,4</b> <b>96,6</b> <b>100,0</b>

## Dynamics in basic clinical and epidemiological indicators in 2015-2016

Indicator	2015	2016	+- 2016 vs. 2015
Number of diagnosed HIV cases	513 53,5	494 51,0	<b>- 4,7%</b>
<b>Number of HIV cases diagnosed with children (MTCT)</b>	2	0	<b>До 0</b>
Number of PLWHs under follow-up	4507	4779	<b>+272 чел. (6,0%)</b>
<b>Number of PLWHs who receive ARVT</b>	2056	2316	<b>+260 (12,6%)</b>
Number of mother-child couples who received the 3-stage chemotherapy	90,5%	95,5%	<b>+ 5,5%</b>
<b>Cases of TB diagnosed among PLWHS (per 1,000 PLWHS)</b>	76 8,0	64 6,4	<b>- 20,0%</b>
Number of deaths among PLWHs (per 100,000)	239 25,0	230 23,7	<b>- 5,2%</b>

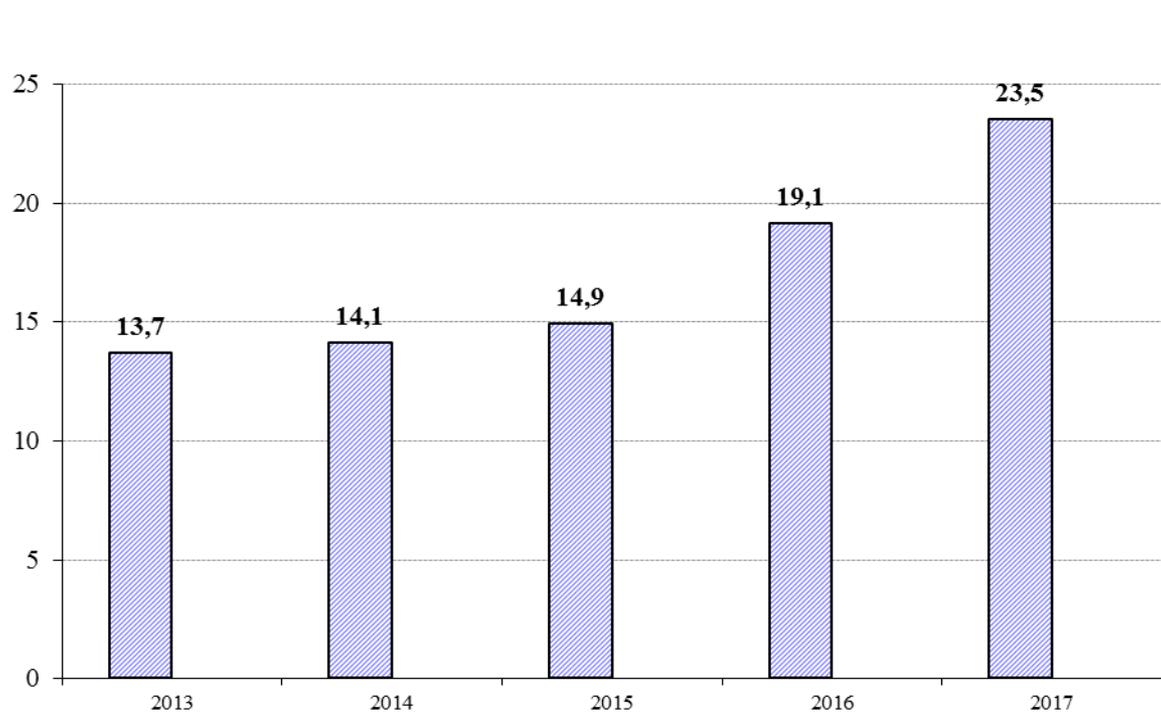
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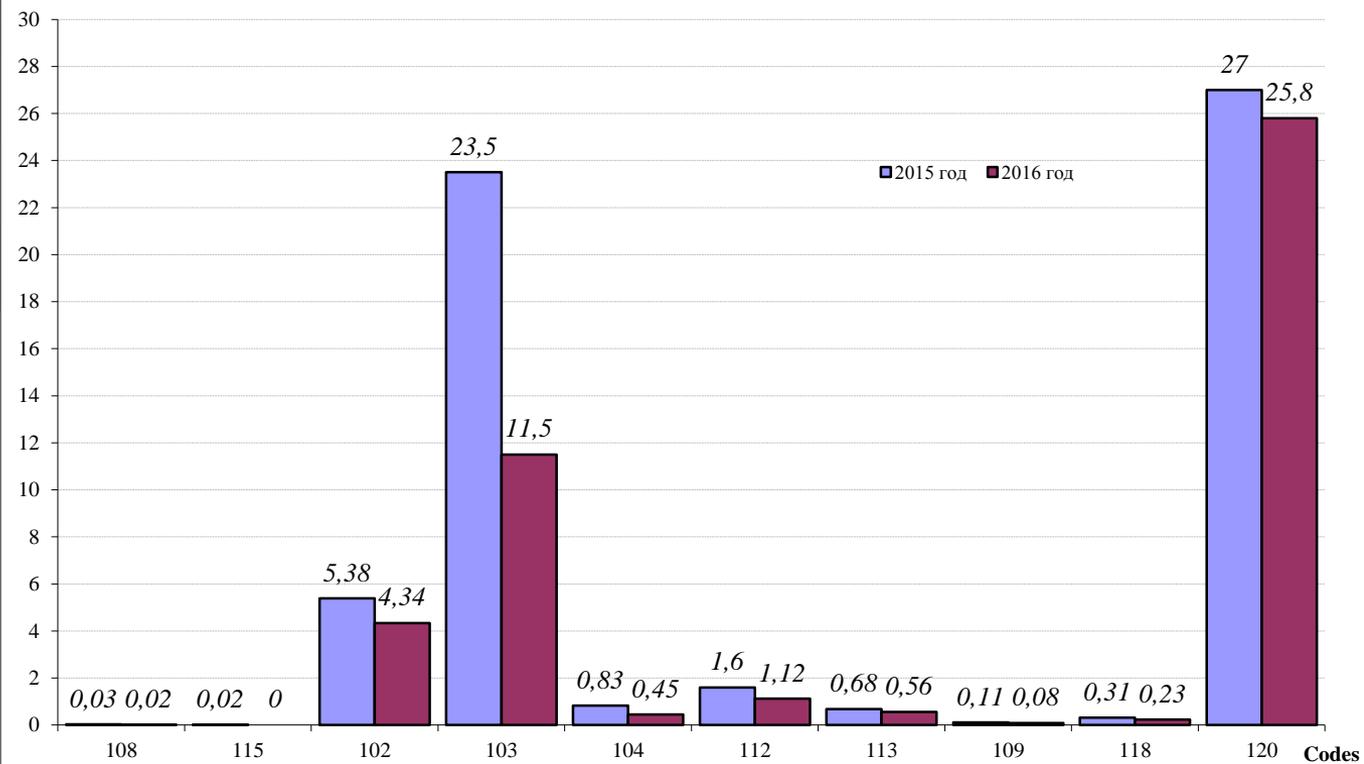
## Population engaged into screening in 2013-2016

Territory	Number of screened				% of screened in total population				2016 vs 2015
	2013	2014	2015	2016	2013	2014	2015	2016	%
Kaliningrad Region (all screening programmes)	149528	164216	165096	207454	15,7	17,2	17,22	21,4	+ 24,4
- Only among residents of Kaliningrad Region	131444	135078	141696	<b>185065</b>	13,76	14,1	14,78	<b>19,1</b>	+30,6

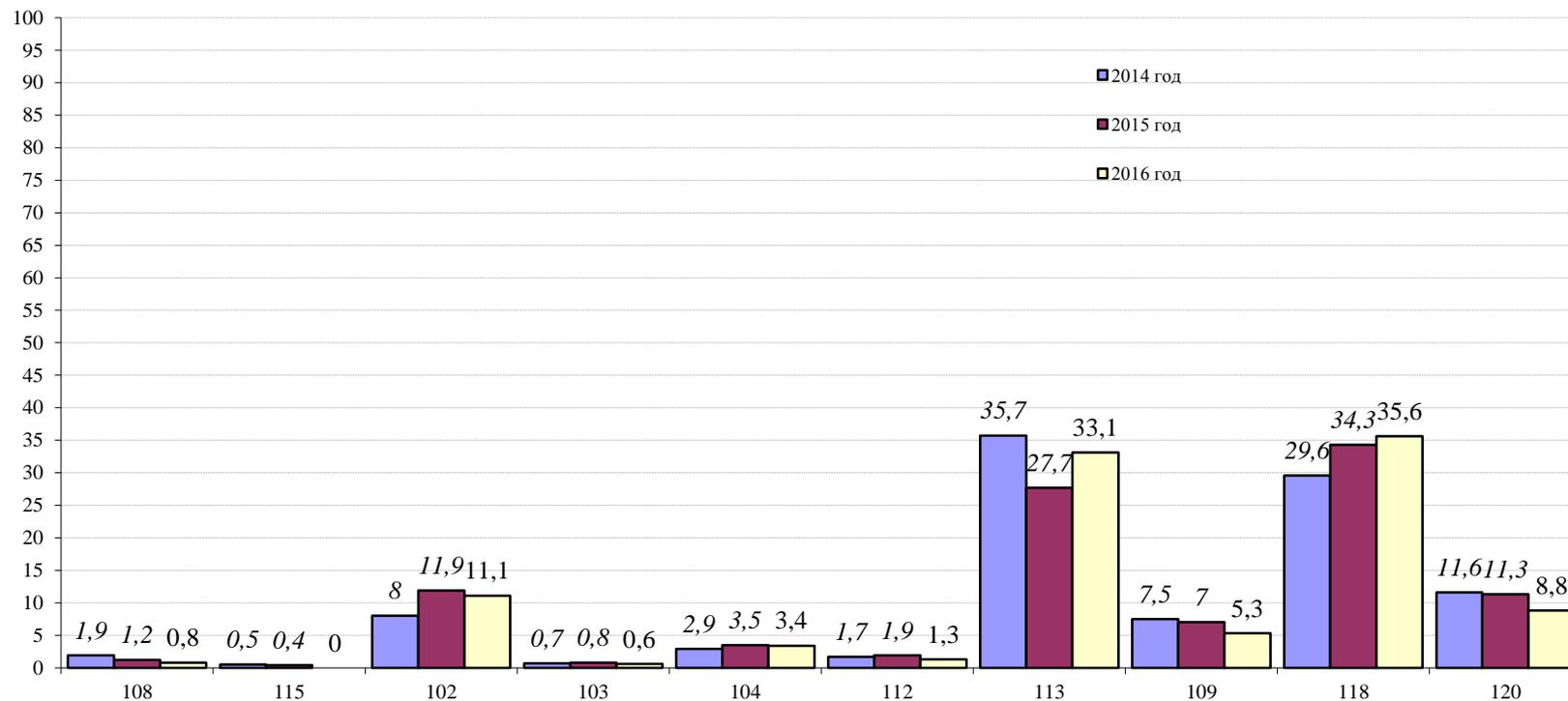
**Coverage with HIV testing of Kaliningrad Region's residents  
(% of Region's population)**



### Detection of HIV in screening of Kaliningrad Region's residents in 2015-2016



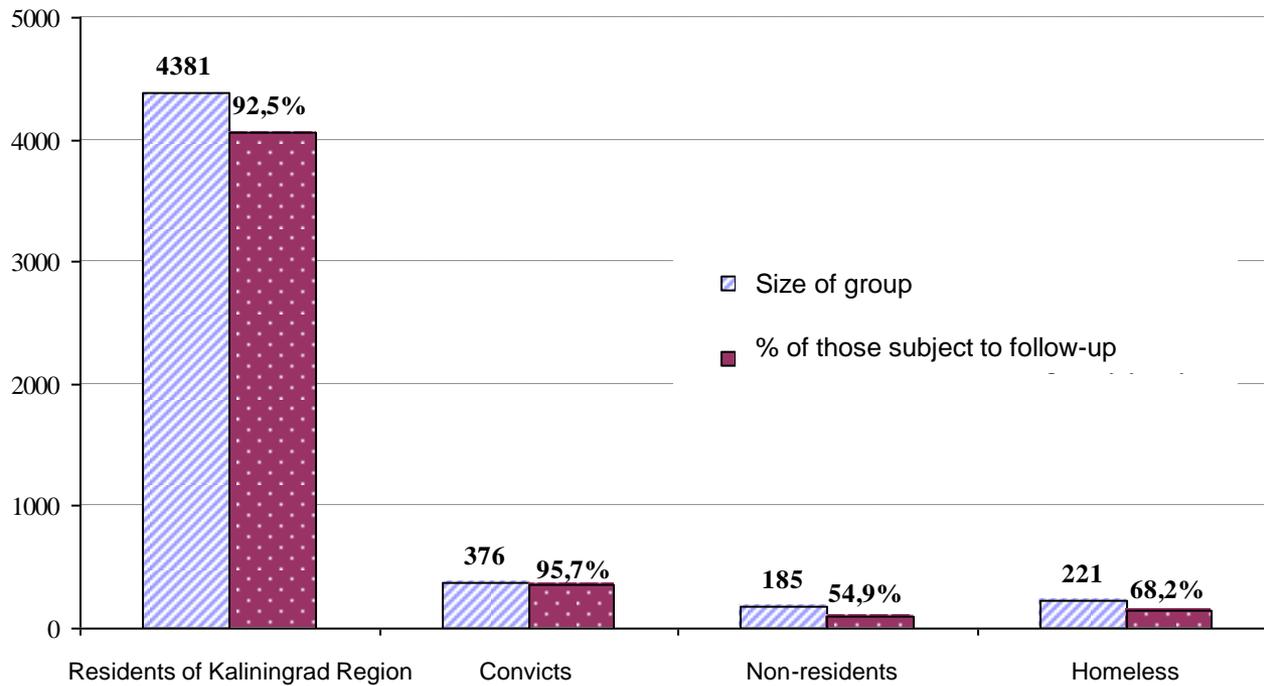
### Structure of diagnoses in 2014-2016 (%)



## Distribution of HIV cases diagnosed in 2016 by social status

White collars	Blue collars	University students	Professional school and college students	Military staff	Convicts	Unemployed	Not identified	Total
133	79	3	8	1	29	141	100	494

## Coverage of PLWHs with follow-up in 2016 by population group



## Dynamics in ARVT coverage in Kaliningrad Region in 2011-2016

Year	in monitoring records	who need ARVT	who receive ARVT
2011	4200	1636	1264
2012	4442	2038	1551
2013	4564	2356	1806
2014	4716	2909	2031
2015	4635	3234	2297
2016	5193	3425	2548

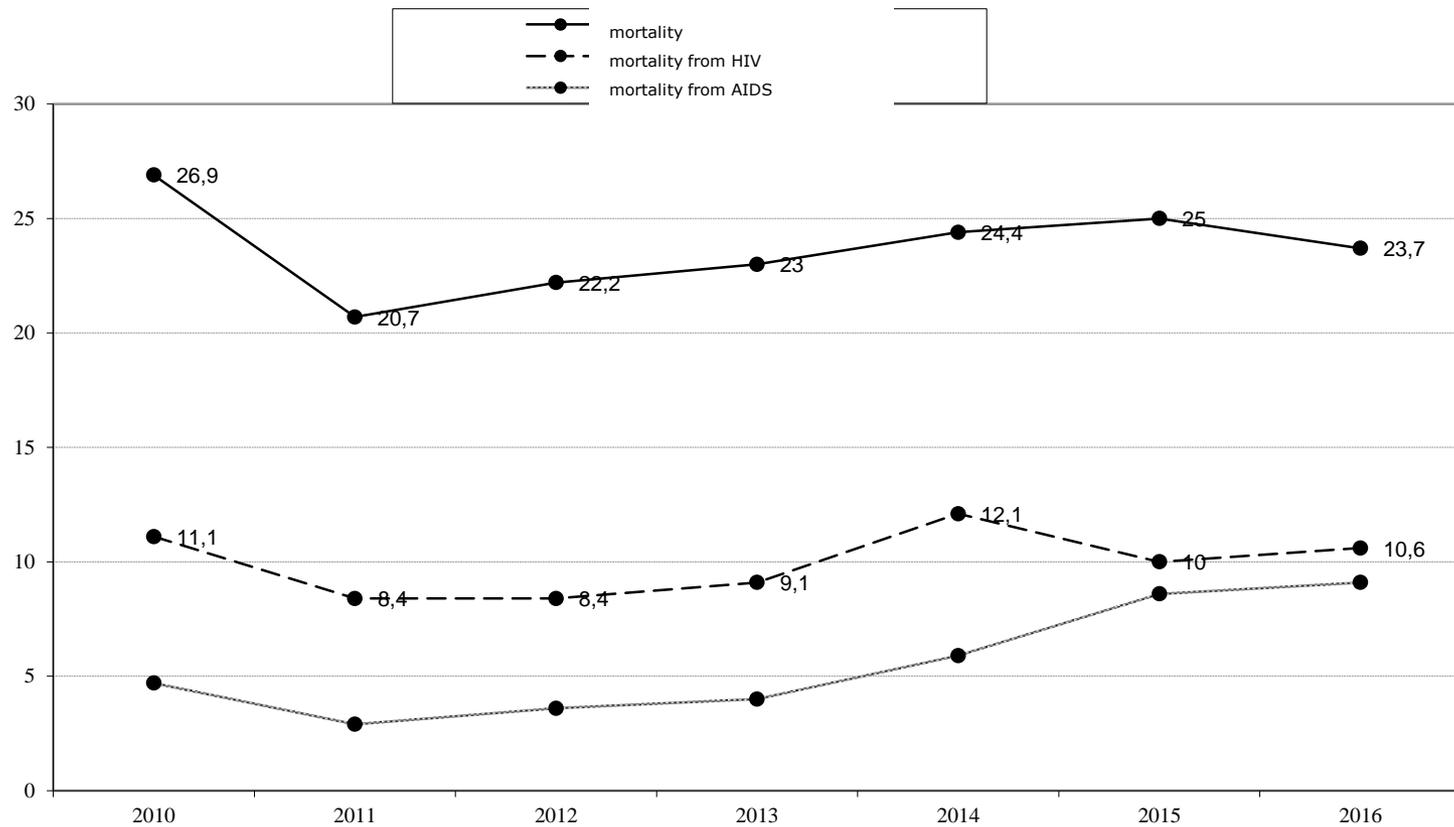
## Distribution of PLWHs by clinical stage in 2012-2016

Clinical stage	Number of patients				
	2012	2013	2014	2015	2016
Primary manifestations including: 2 A					
2 B					
2 C					
Sub-clinical - 3	2332 – 53,48%	2401 - 52,3%	2426 – 51,5%	2543 – 51,5%	2205 42,7%
Secondary manifestations including: 4 A			1253 – 26,6%	1308 – 26,5%	1324 25,6%
4 B	1030 – 23,62	1130 – 24,8%	522 – 12,0%	530 – 11,7%	525 – 11,1%
4 C	522 – 12,0%	530 – 11,7%	460 – 9,8%	491 – 9,9%	543 – 11,0%
Terminal – 5	316 – 7,2%	308 – 6,8%	50 – 1,1%	50 – 1,0%	519 10,1
	160 – 3,66	180 – 3,95%			48 0,92%
<b>Total:</b>	4360- 100,0%	4549 – 100,0%	4714 - 100,0%	4935 - 100,0%	5163 100,0%

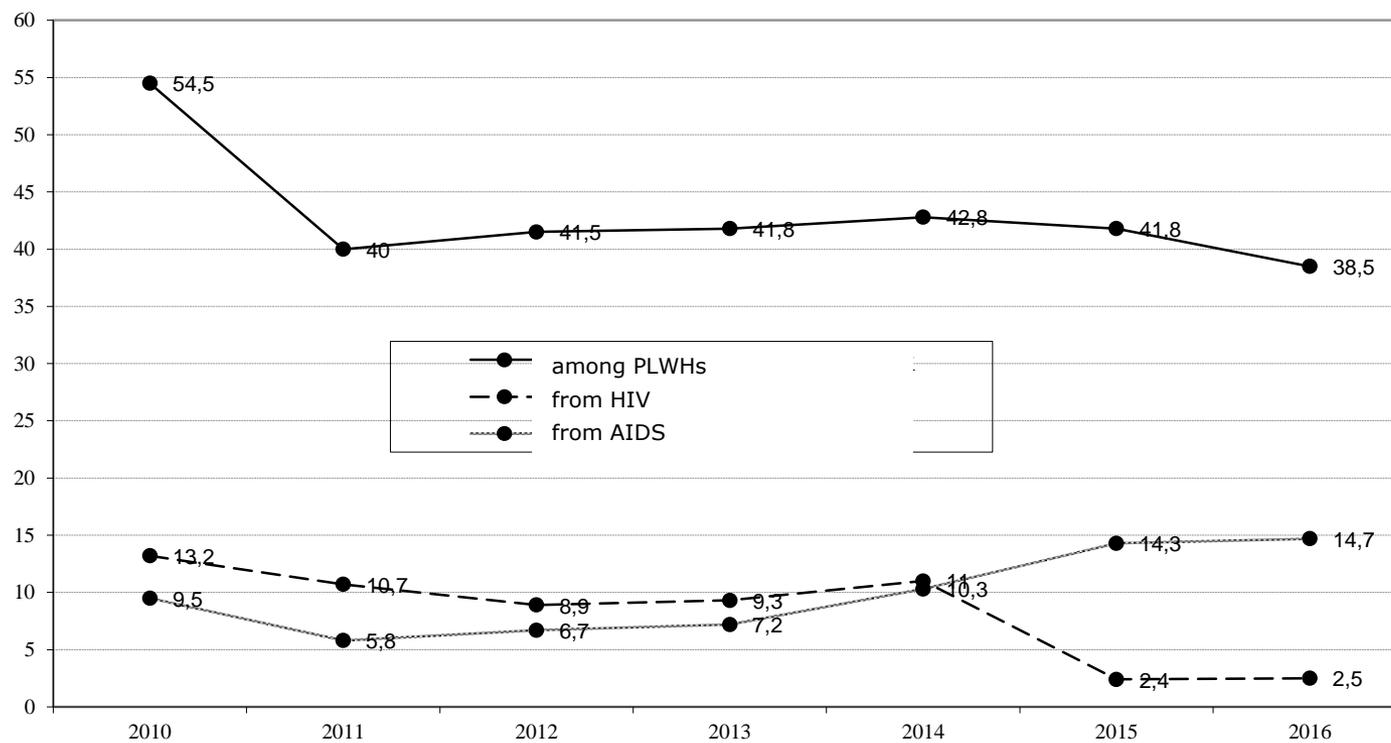
## Social support to PLWHs and their families

Activity	Number	
	2015	2016
Counseling on social questions, including:	1211	1155
- social functioning	601	585
- employment	24	27
- restoration of documents	38	42
- obtaining medical policies	48	47
- social benefits	85	72
- residence registration	27	30
Social case management for patients who interrupted treatment	25	16
Psychological support to PLWHs	508	391
Phone calls to the crisis counselling line	1118	891
Psycho-social counseling of PLWHs in monitoring records placement	114	68
Psychological support to family members	227	170
Psychological individual consultations, including therapy prescription and prevention of interruption	334	204
Psychological surveys (behavior, anxiety, etc.)	202	127
Humanitarian aid	130	133

### Dynamics of mortality among PLWHs in 2010-2016 (per 100,000)

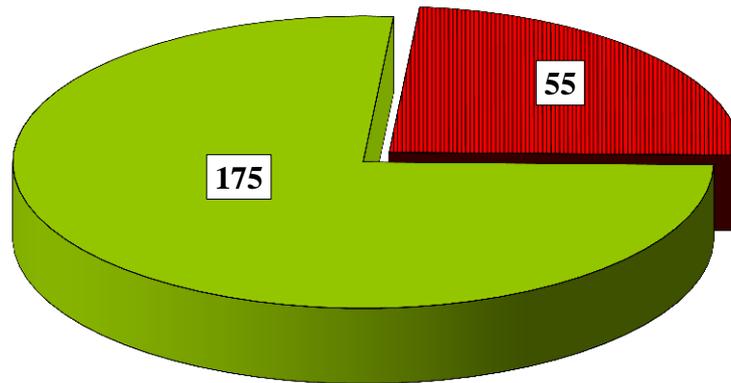


## Dynamics of mortality among PLWHs in Kaliningrad Region, per 1,000 PLWHs

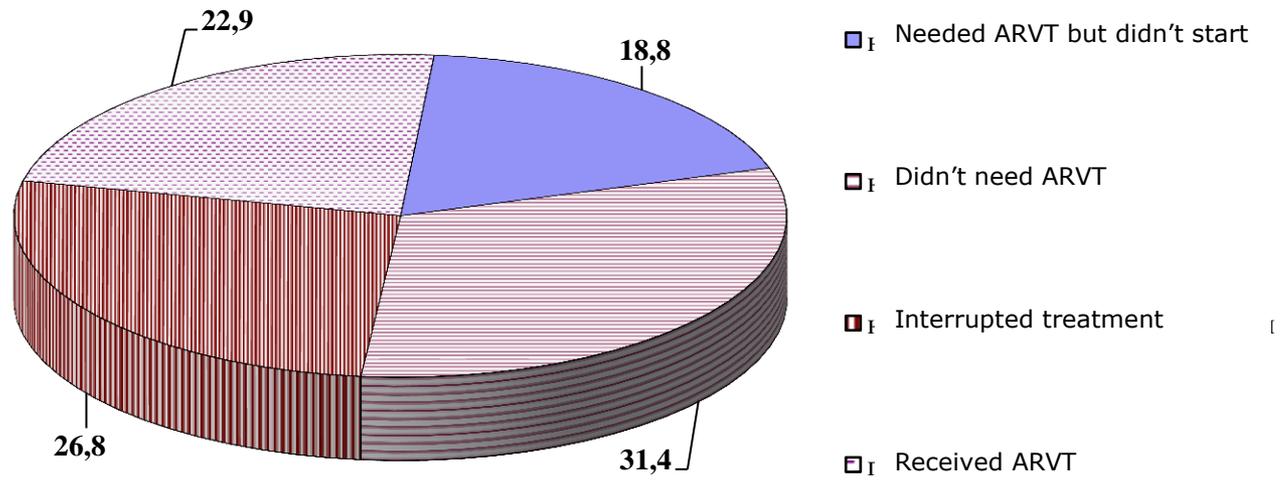


### Structure of deaths caused by HIV/AIDS in 2016

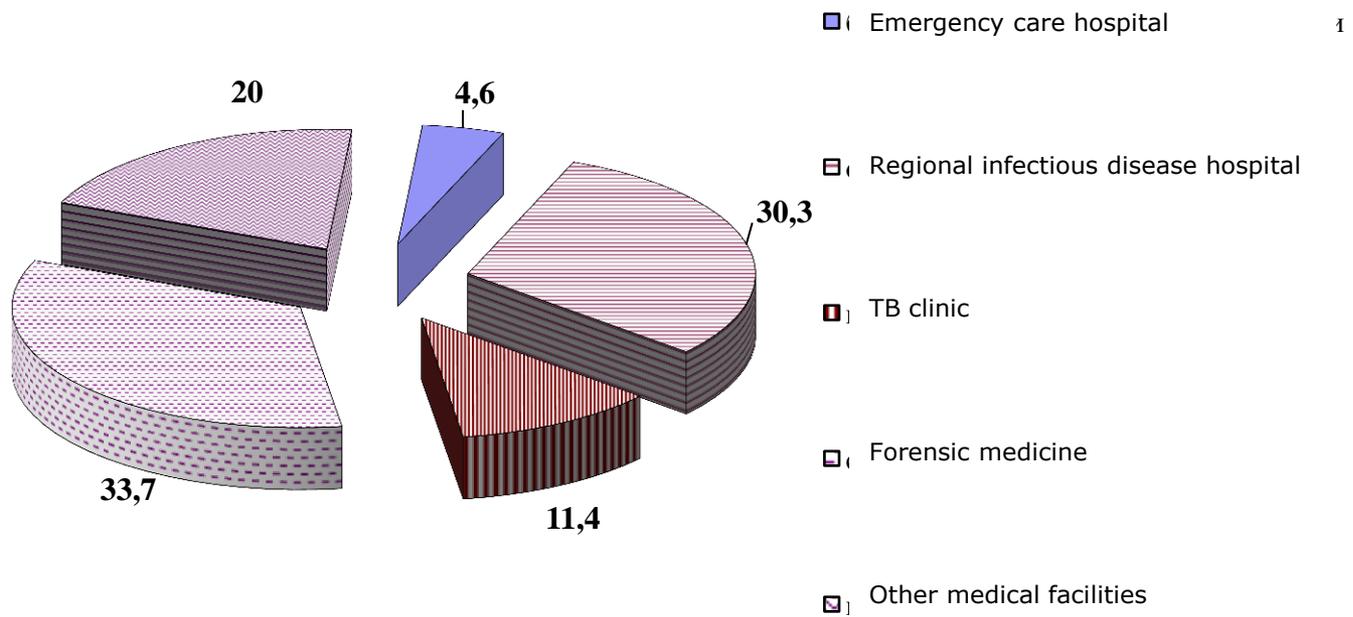
- Not on follow-up records
- On follow-up records



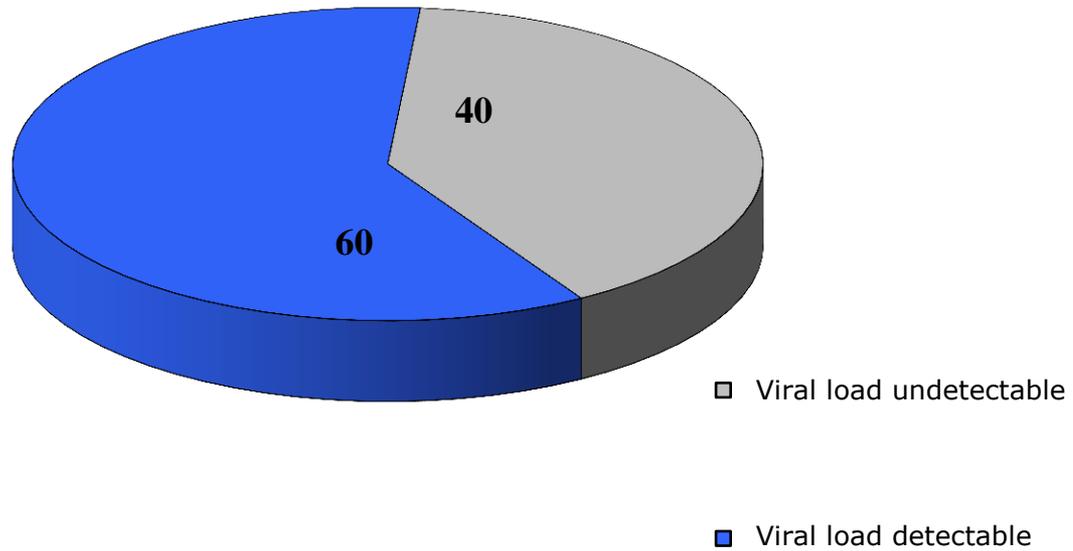
### Structure of deaths caused by HIV/AIDS in 2016 among those on follow-up records, per cent



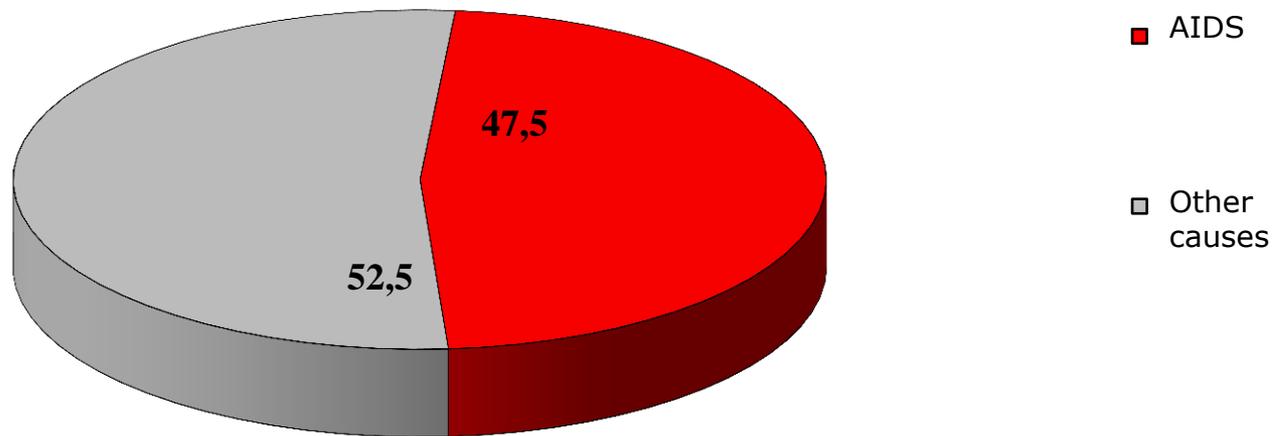
### Structure of deaths caused by HIV/AIDS in 2016 among those in follow-up records, %



**Structure of deaths caused by HIV/AIDS among those who received ARVT, %**



**Structure of deaths caused by HIV/AIDS in 2016 among those in ARVT, %**



(19 people on ARVT died from AIDS, 0,8% of all who received ARVT)

## Rates of examination for immune status and viral load among PLWHs in 2016, %

	Coverage among those under follow-up	Coverage with monitoring of treatment progress
Examined for immune status	<b>66,7</b>	<b>72,3</b>
Examined for viral load	<b>66,8</b>	<b>64,1</b>

## Cascade of measures to halt epidemic (as of 1.1.2017)

Number of diagnosed HIV cases	6266 (432) 100,0%					
Placed under follow-up		<b>5193</b> <b>82,8%</b>				
Regularly visit AIDS Centre			<b>4194</b> <b>66,9%</b>			
Need ARVT				<b>3425</b> <b>54,6%</b>		
Receive ARVT				<b>74,4%</b>	<b>2548</b> <b>40,6%</b>	
Have viral load undetectable					<b>70,0%</b>	<b>1771</b> <b>28,3%</b>

## **Situation as of 1 June 2017:**

- Examined for HIV antibodies – 47,5% of the agreed annual amount (+1,8 times versus same period in 2016);
- HIV cases diagnosed by 36% more than in the same period in 2016;
- 2592 persons receive ARVT – 49,1% of those under follow-up



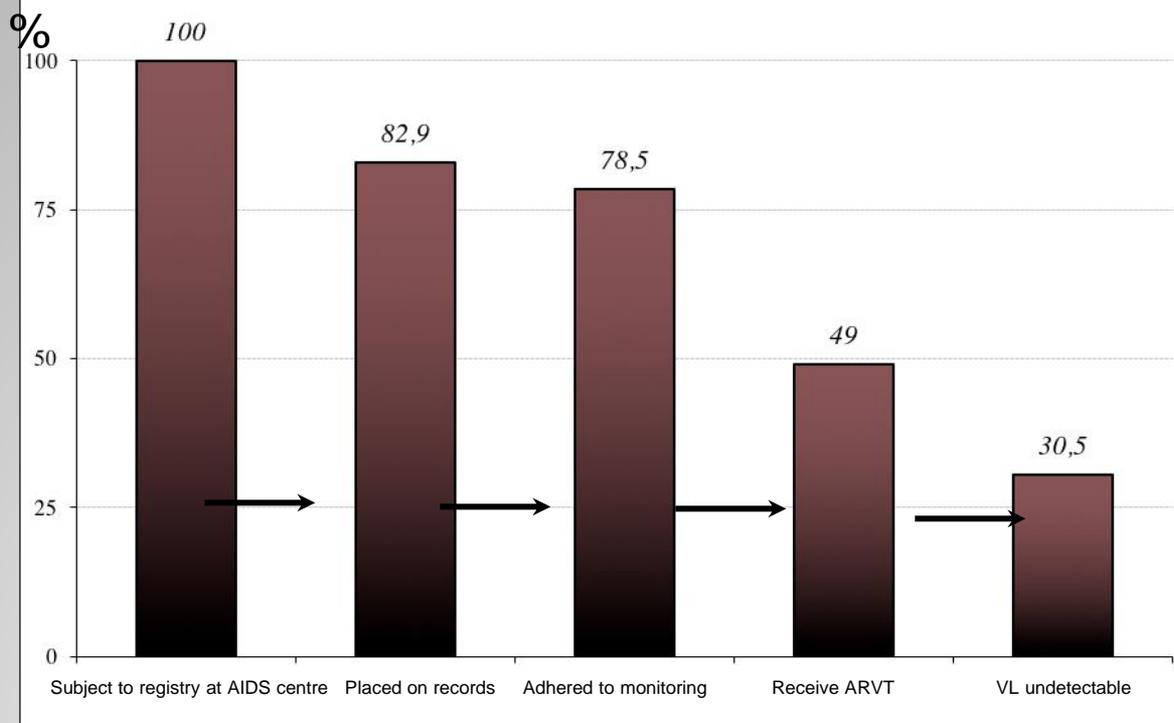
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## • **Areas of activity**

- **Expansion the HIV-testing coverage among population, including hard-to-reach groups (PWIDs, CSWs, MSM) – 23,5% of all region's residents (or by 47,000 people more than in 2016), in 2018 – 25%.**
- **Through improving adherence to regular health monitoring and ARVT to increase the AARVT coverage in 2017 up to 55% of those under regular health monitoring, and in 2018 – up to 60%.**
- **Prevention of MTCT – under 2% (in 2016 no cases of MTCT were recorded)**

- Wider awareness improving activity in the occupational health;
- More surveys in the educational sector and other social and professional groups to assess knowledge of HIV prevention;
- Continuation of educational seminars, including through the NCM Health Programme in the NW Russia;
- Improving logistics and physical and information resources of the Kaliningrad Regional AIDS Centre as required by the National HIV Strategy

**Cascade of care to PLWHs in Kaliningrad Region (as of 1.6.2017)**





*Thank you*

*for*

*attention!*