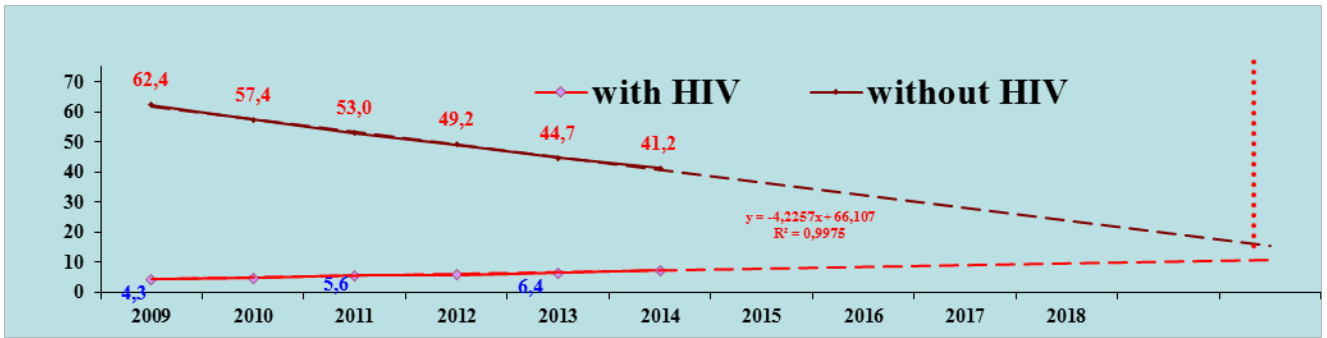


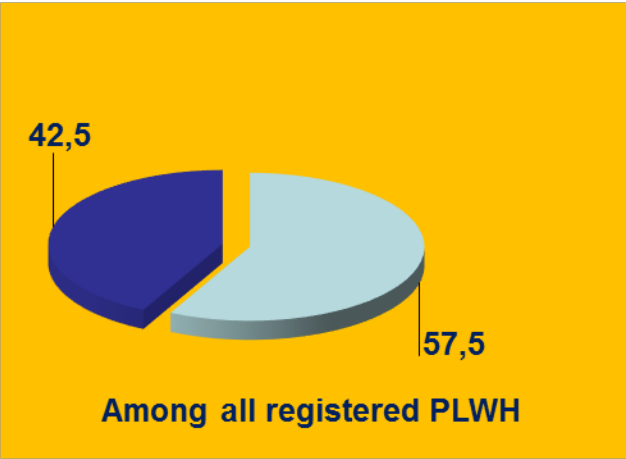
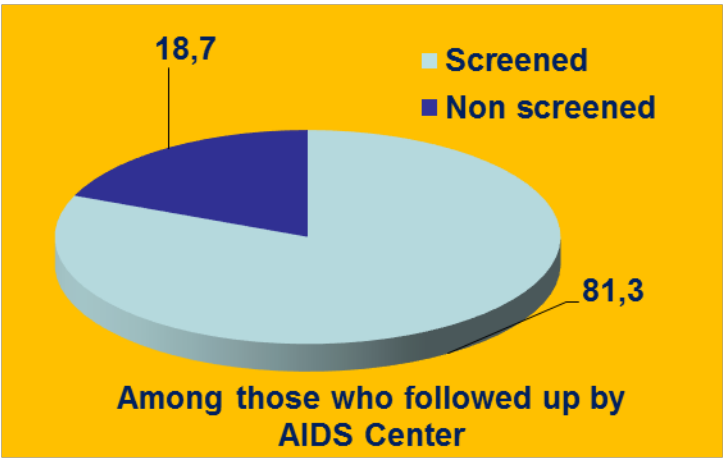
TB screening in people living with HIV and MDR TB reservoir formation in the Russian Federation (North-West Region)

Z. Zagdyn, G. Hasanova, V. Galkin, G. Balasanynts

September 5, 2016

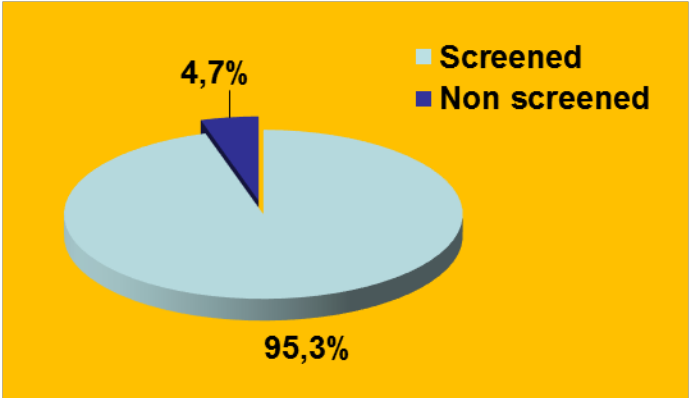


TB incidence trends in PLWH in Russia (per 100 000)



TB screening among people living with HIV in Russia 2015, f.61)

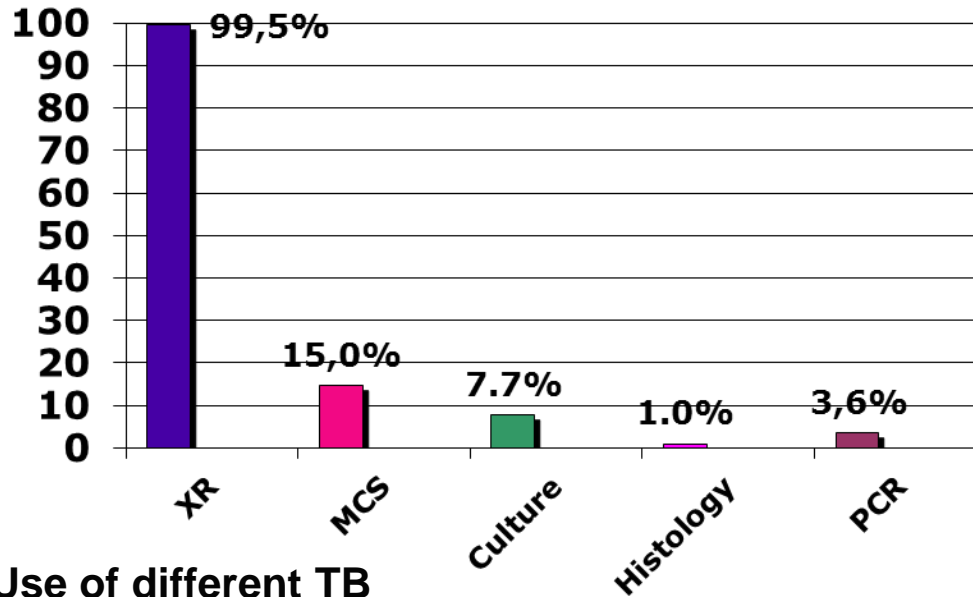
- ❖ Frequency of TB cases in PLWH – 22.6 per 1000 screened
- ❖ Frequency in the whole population (2014, f. 30) – 0,44 per 1000 screened



HIV screening among TB patients in Russia (2015, f. 33)

- ❖ Frequency of HIV positive results in screened TB patients – 7,8%
- ❖ In the whole population - 0,31%

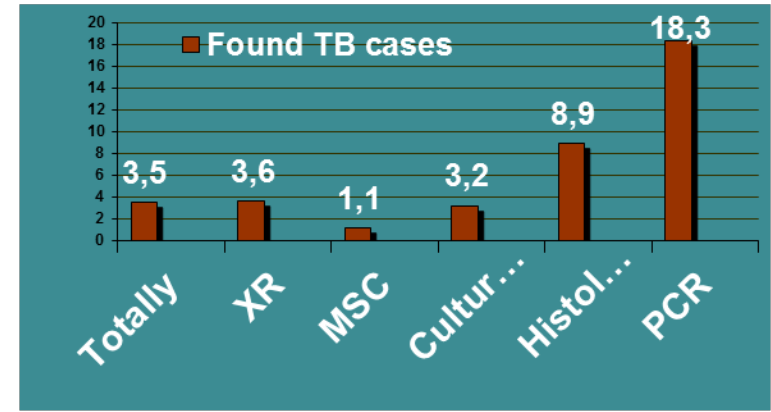
TB screening methods and their informative value



Use of different TB screening methods in PLWH (2015, f. 61)

Conventional groups of PLWH

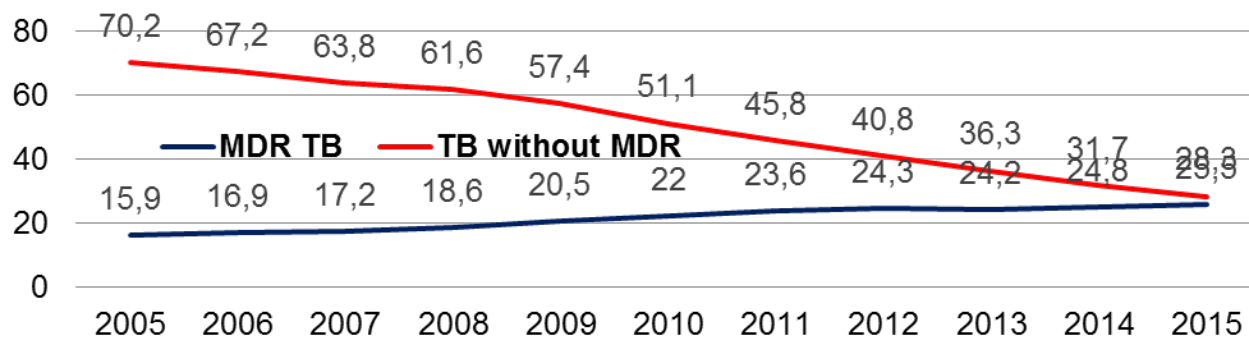
- ❖ New registered patients who followed up by AIDS Center;
- ❖ Followed up by AIDS Center and have adherence;
- ❖ Followed up by AIDS Center and have moderate adherence (don't visit AIDS Center during 1 year)
- ❖ Registered as HIV(+), but never visited AIDS Center
- ❖ HIV(+), but don't know their HIV-status



Informativeness of different TB screening methods in PLWH (Saint-Petersburg, 2007-2011, f. 263)

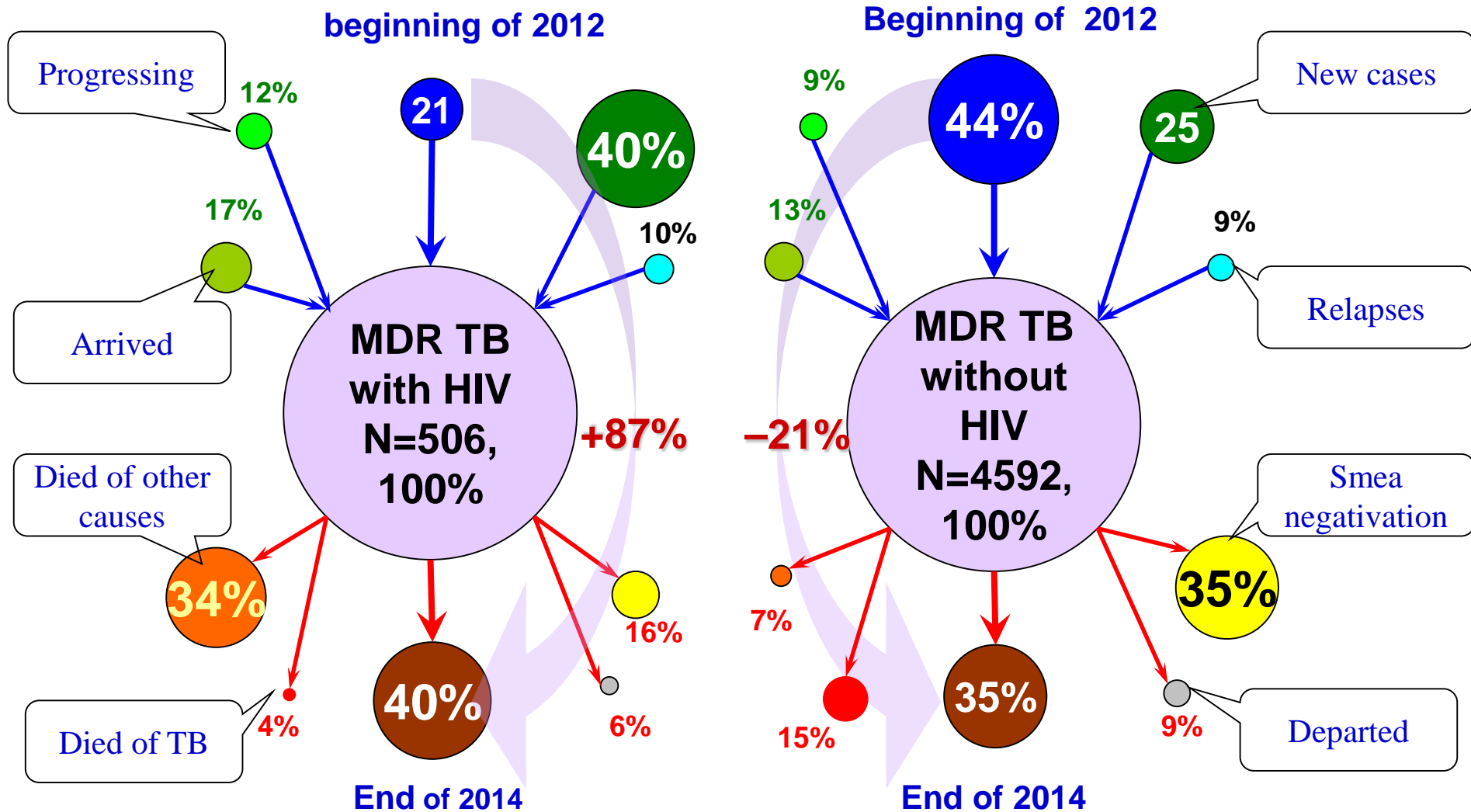
TB case finding facilities and routs *(Saint-Petersburg< 2007-2011, f. 263)*

Facilities	Totally		Actively	Passively	Postmortem	Unknown
	N	% from Total N	% from Total N	% from Total N	% from Total N	% from Total N
Total	2004	100,0	26,8	69,1	3,7	0,4
Infec. hospital	629	31,4	3,7	89,6	6,7	0,0
Prison	396	19,8	72,7	25,3	0,5	1,5
General hospital	320	16,0	8,4	86,6	5,0	0,0
Outpatient	274	13,7	34,3	65,3	0,0	0,4
AIDS Center	269	13,4	14,9	81,0	4,1	0,0
TB dispensary	90	4,5	53,3	45,6	0,0	1,1
Forensic Bureau	4	0,2	0,0	0,0	100,0	0,0
Others	21	1,0	71,4	28,6	0,0	0,0
No data	1	0,0	0,0	0,0	0,0	100,0

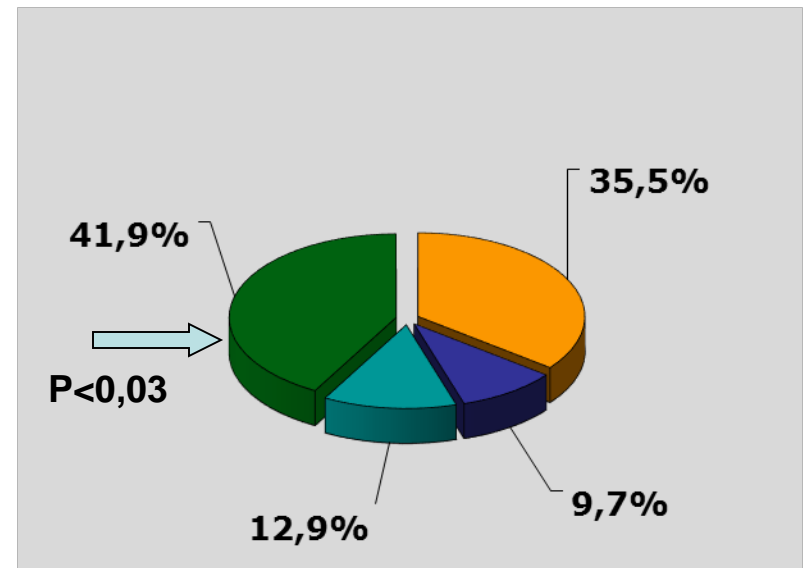
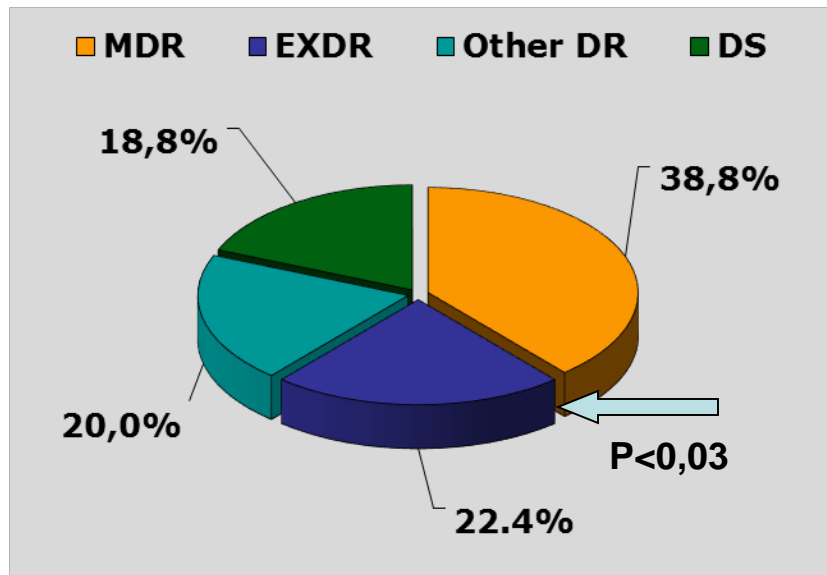
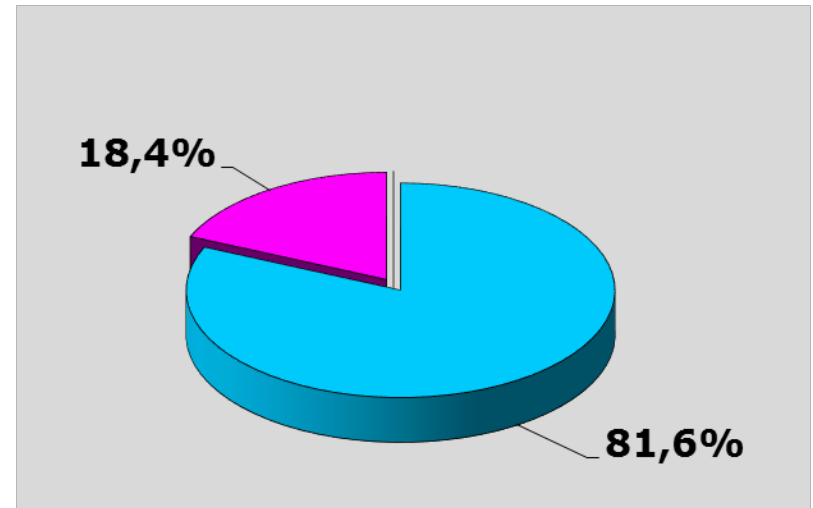
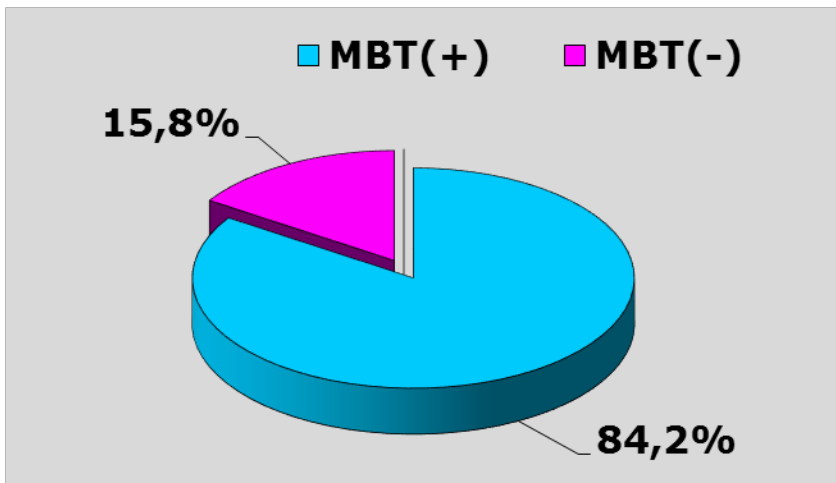


**TB prevalence with-
and without MDR
in Russia
(per 100 000)**

MDR TB Reservoir formation (8 NWR territories, 2012-2014)



MBT (+) and drug resistance in TB patients with and without HIV, who died of TB (personal data)



HIV/TB

TB

Conclusion

1. **The TB epidemic situation in Russia is mainly worsening due to increased number of HIV and MDR TB cases**
2. **Currently available TB screening system and methods in PLWH are not enough informative and adequate**
3. **HIV-infected patients are the main sources of MDR TB reservoir in Russia**



Thank you!