



Annecy, September 14 – 15, 2015

Fondation Mérieux's Les Pensières Conference Centre

Epidemiology of MDR TB and HIV in Republic of Moldova

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Republic of Moldova



Population: 3.9 million

Area: 33.7 sq. km

Life expectancy:

- men – 65.5 years
- women – 73.3 years

Population with income below subsistence minimum: 20.8 %

GNI (gross national income) per capita: 1560 US \$

Unemployed: 8.1%

Migration: 25% of working-age people





The top major health problems

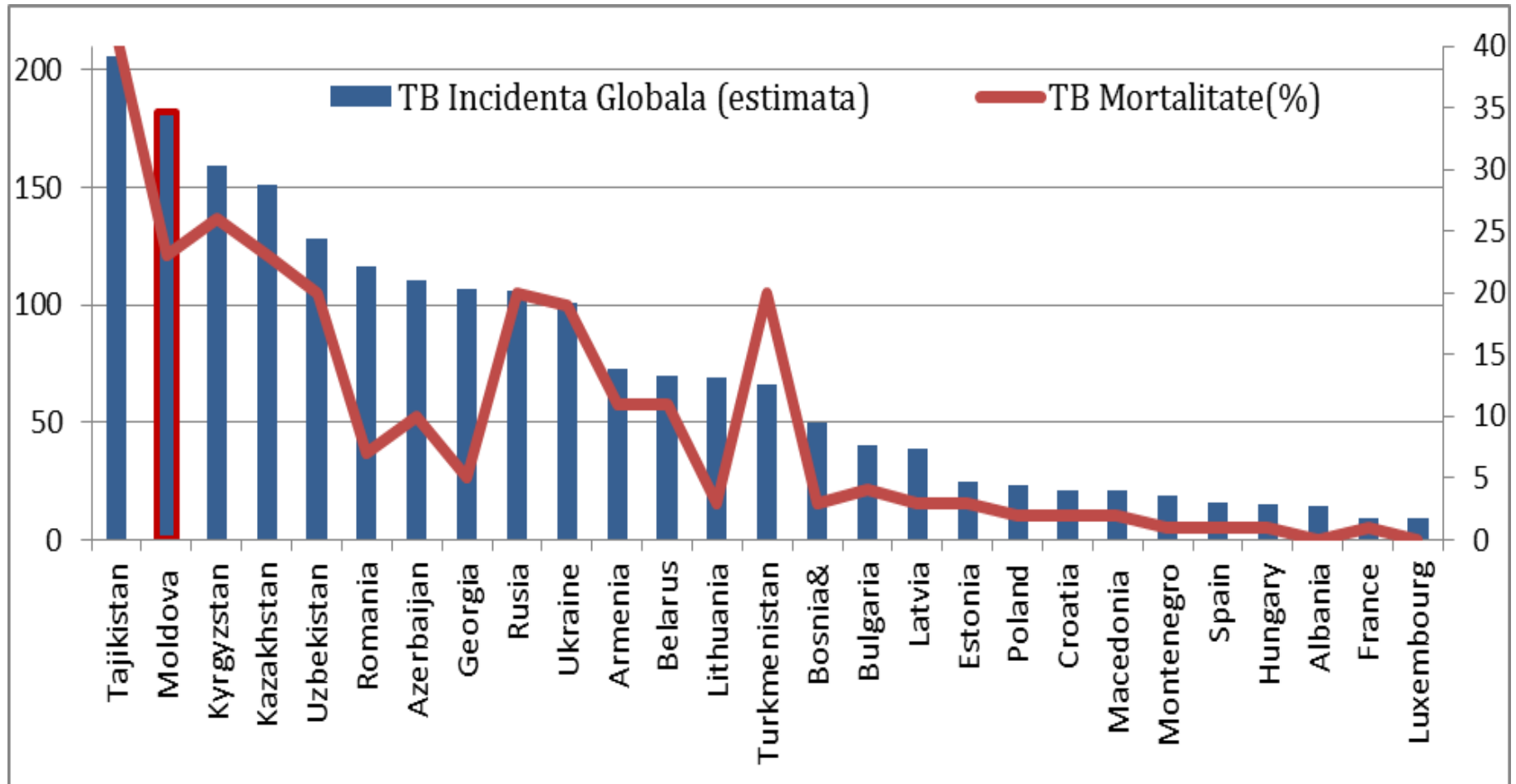
- ☐ Diseases of the circulatory system
- ☐ Cancer
- ☐ Diseases of digestive system
- ☐ Injury and poisoning
- ☒ Infectious diseases



The top of priority infectious diseases in Moldova

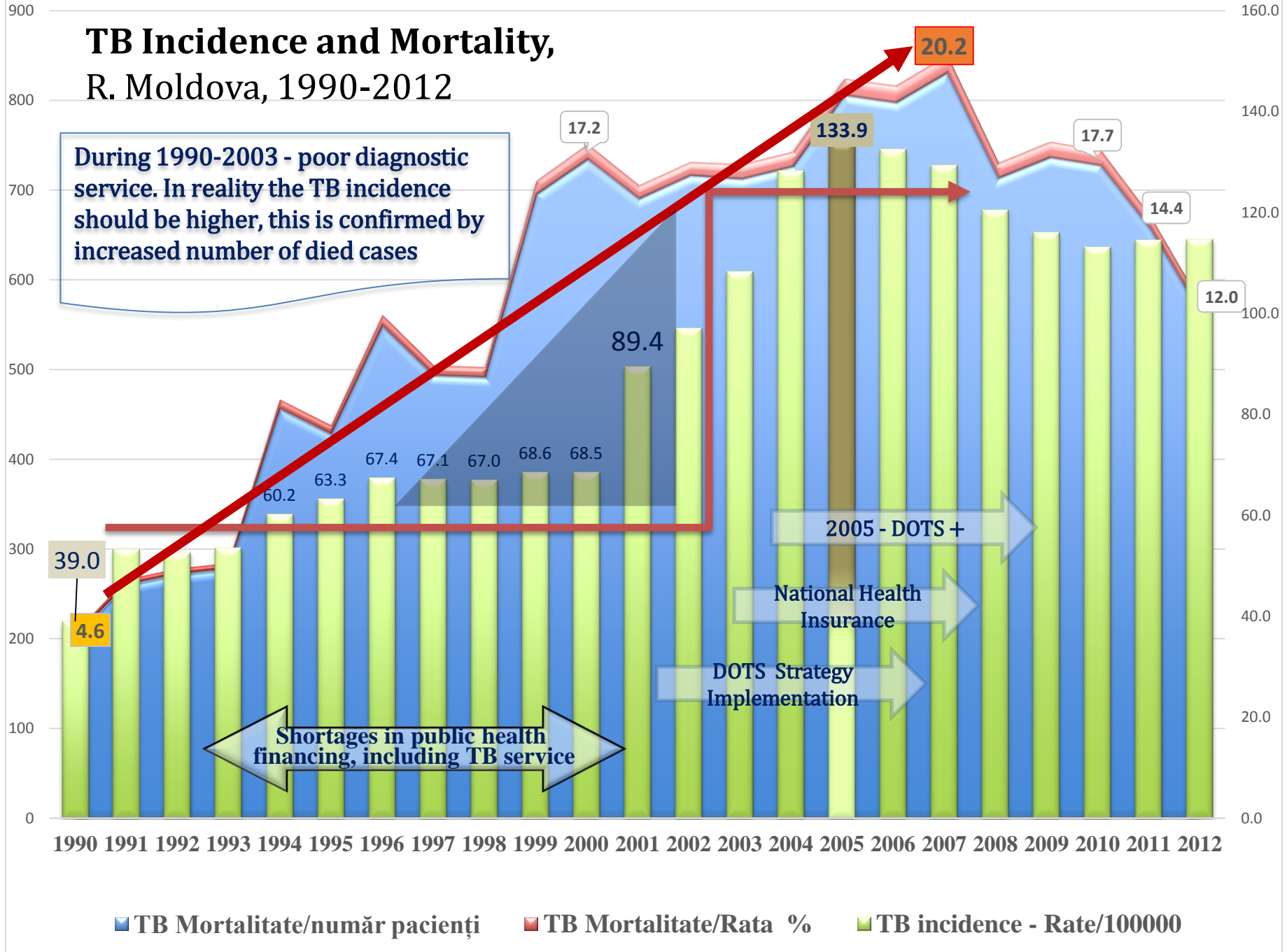
- ☒ Tuberculosis
- ☒ HIV/AIDS/STD
- ☐ Viral Hepatitis B&C
- ☐ Acute Respiratory diseases
- ☐ Enteric diseases

The incidence and mortality through Tbc in European countries

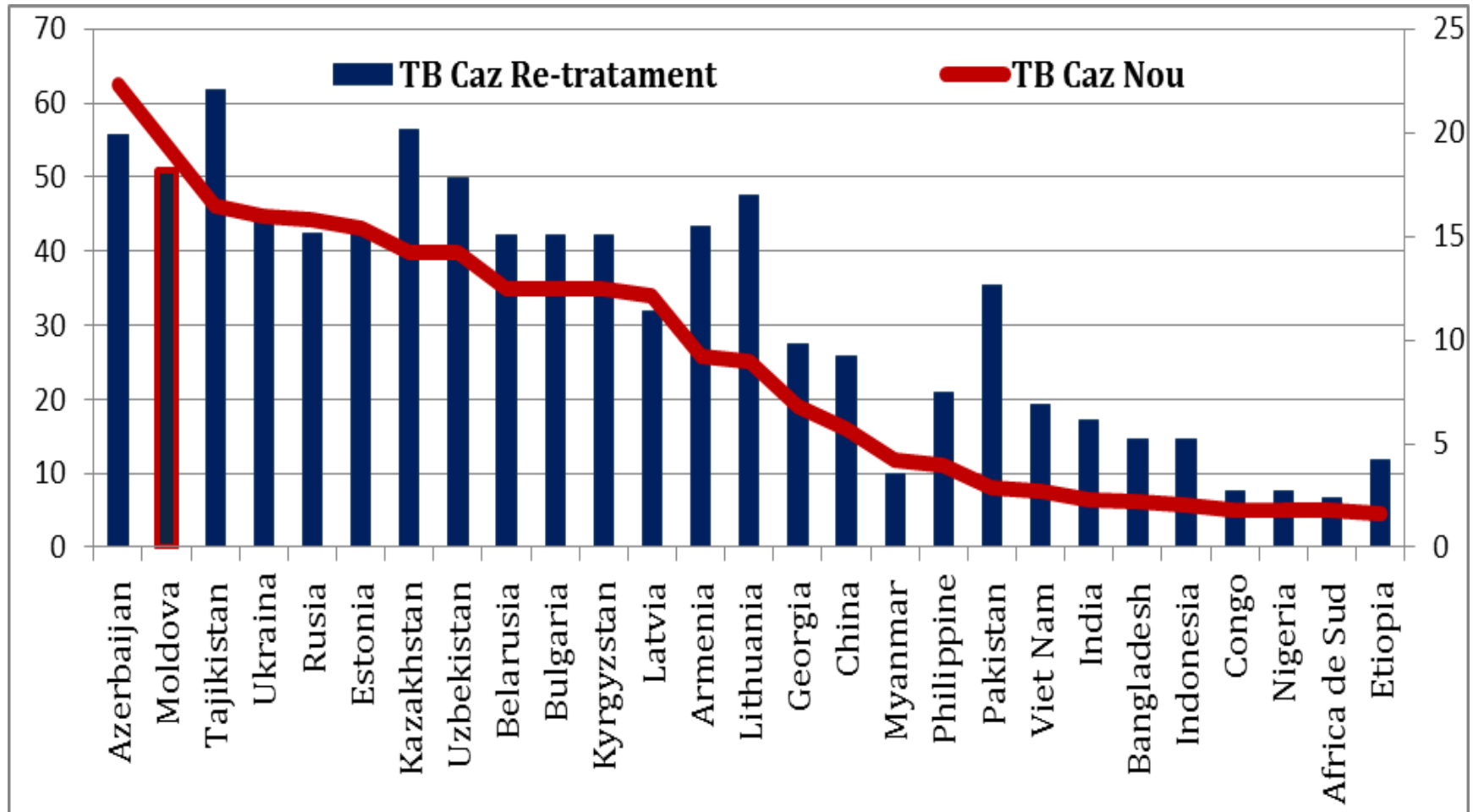


TB Incidence and Mortality, R. Moldova, 1990-2012

During 1990-2003 - poor diagnostic service. In reality the TB incidence should be higher, this is confirmed by increased number of died cases



Prevalence of MDR TB among new cases and re-treatments in European countries



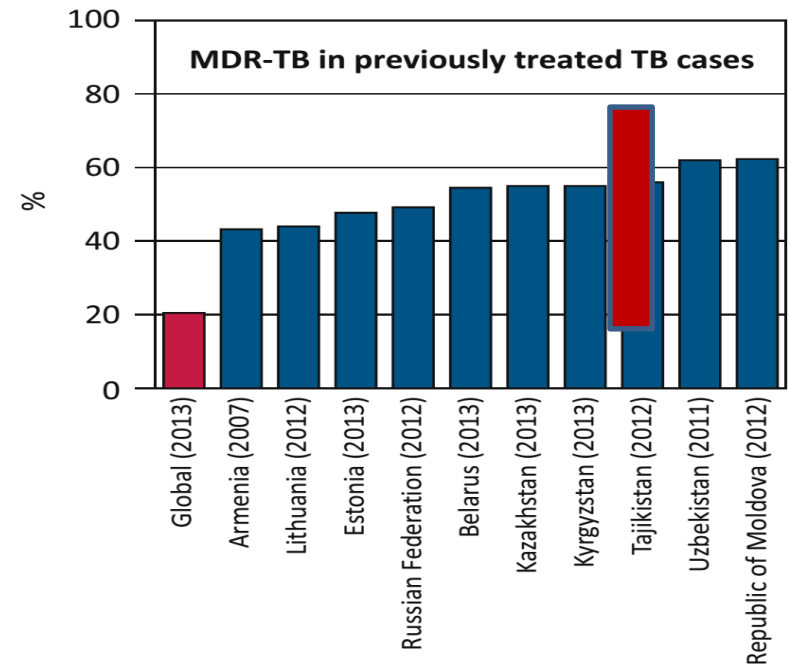
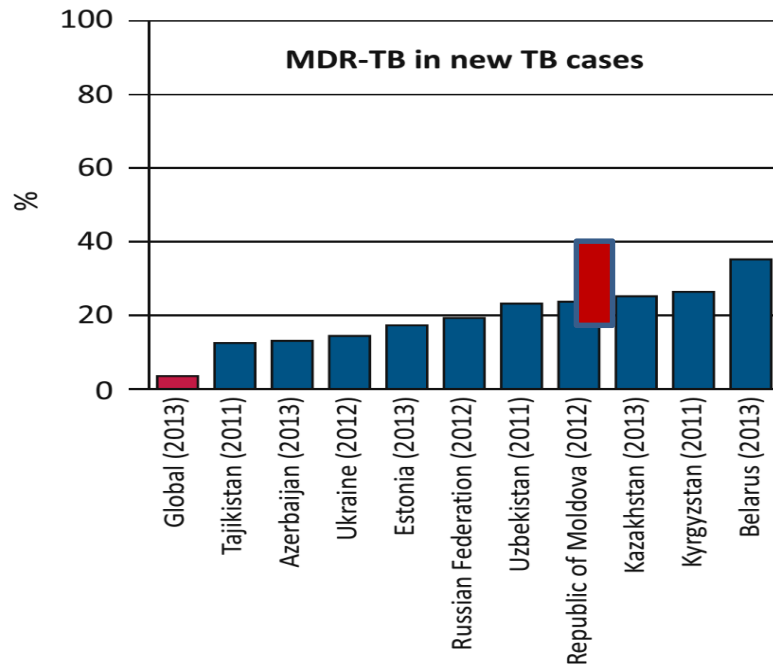
Reasons of TB epidemic in Moldova during the last 20 years

- ✓ Socio-economic crisis;
- ✓ **Massive migration of population;**
- ✓ Unemployment ;
- ✓ Shortages in public health financing, including TB service:
- ✓ Low living standards of TB patients;
- ✓ Tuberculosis in prisons

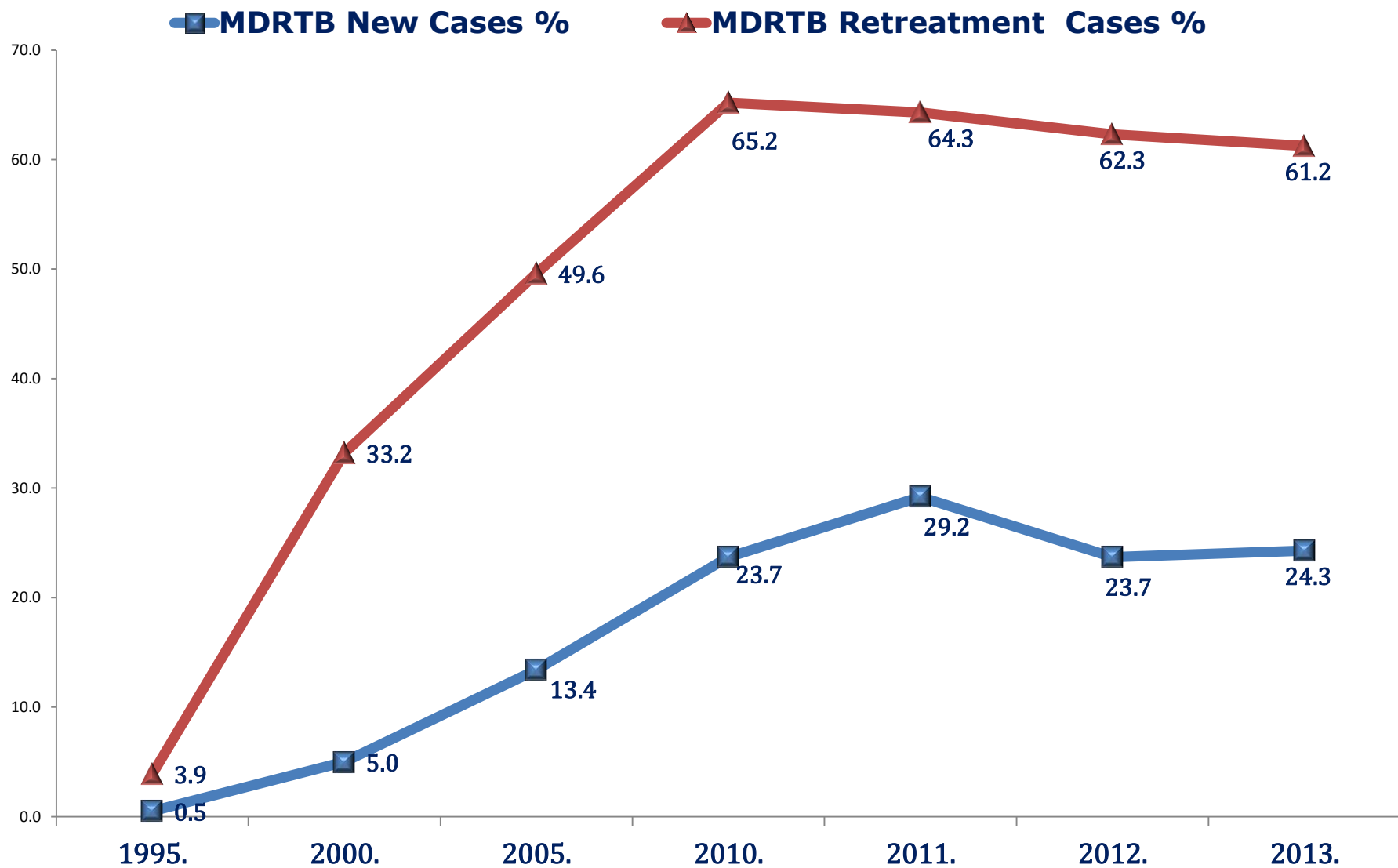
➤ **High levels of MDR-TB**

Expanding of MDRTB

PROPORTIONS OF NEW AND PREVIOUSLY TREATED TB CASES WITH MDR-TB GLOBALLY AND IN THE TOP-TEN COUNTRIES Global TB control. WHO. 2014



Prevalence of MDRTB among New Cases and Retreatment cases. R. Moldova. 1995- 2013

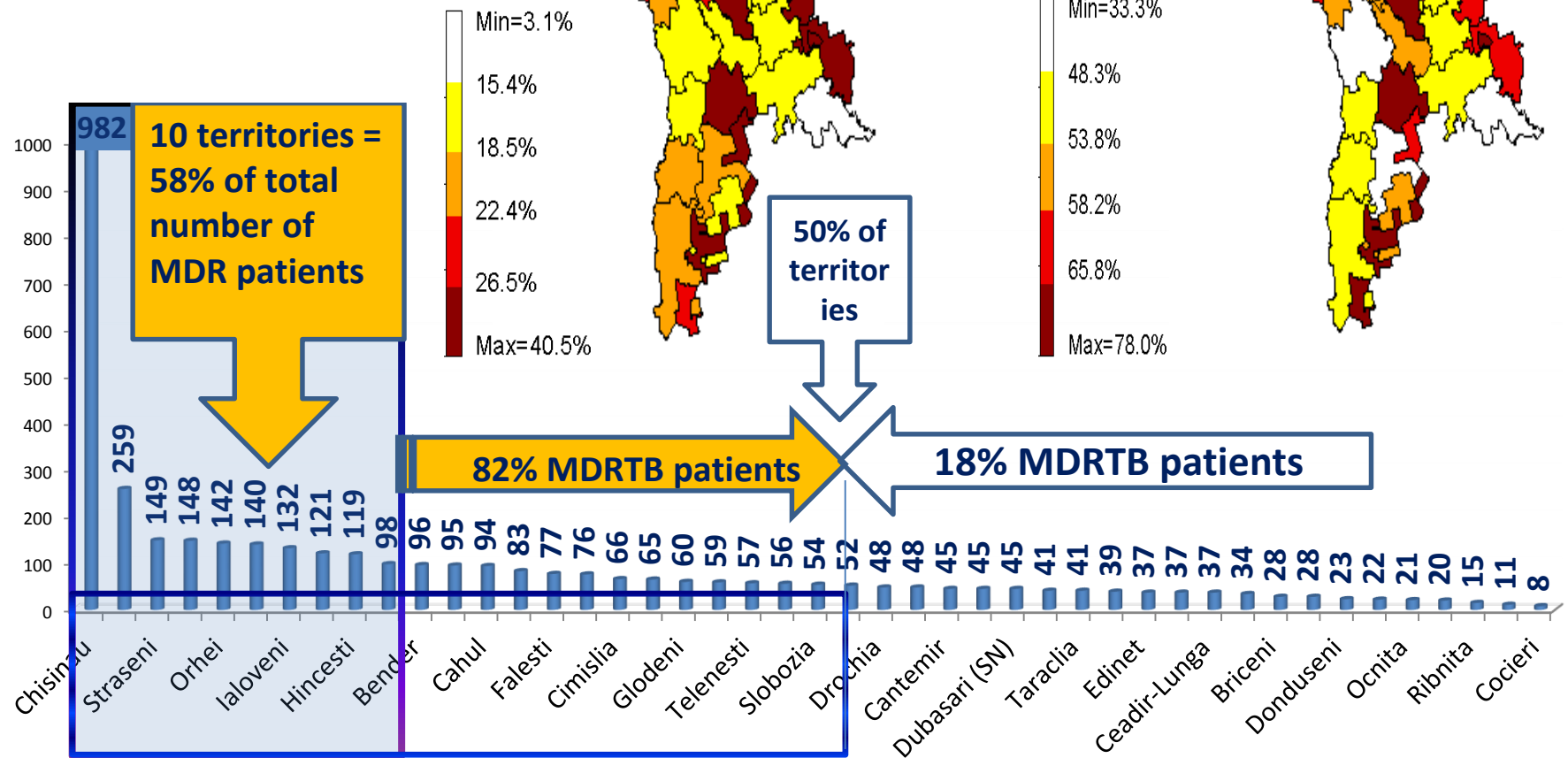


Prevalence of MDRTB by territories.

42 districts and 4 municipality. R.Moldova, 2007-2011

TB
New
cases

Re-
treatment
cases

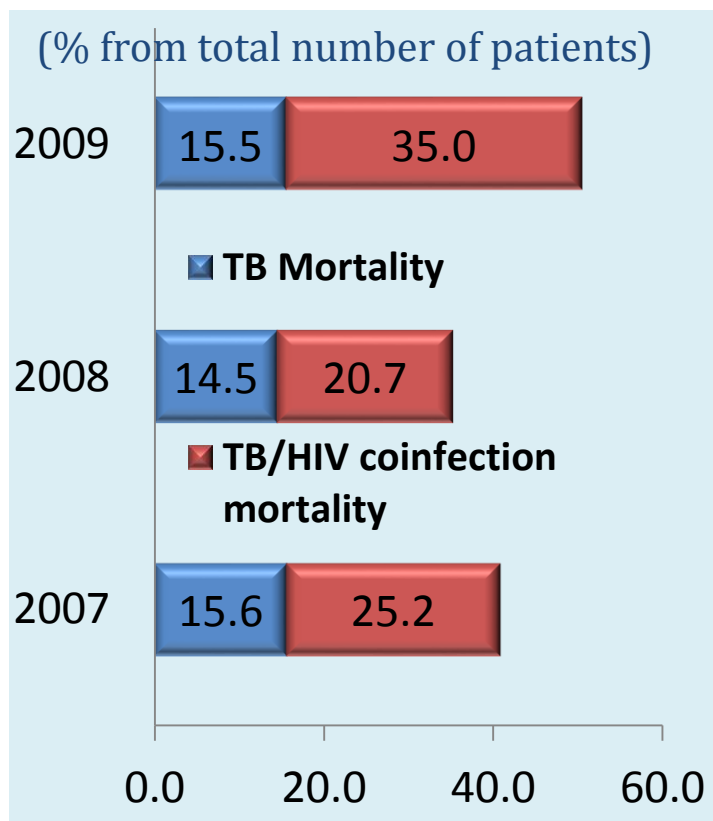


Mycobacterium tuberculosis genotypes in Republic Moldova

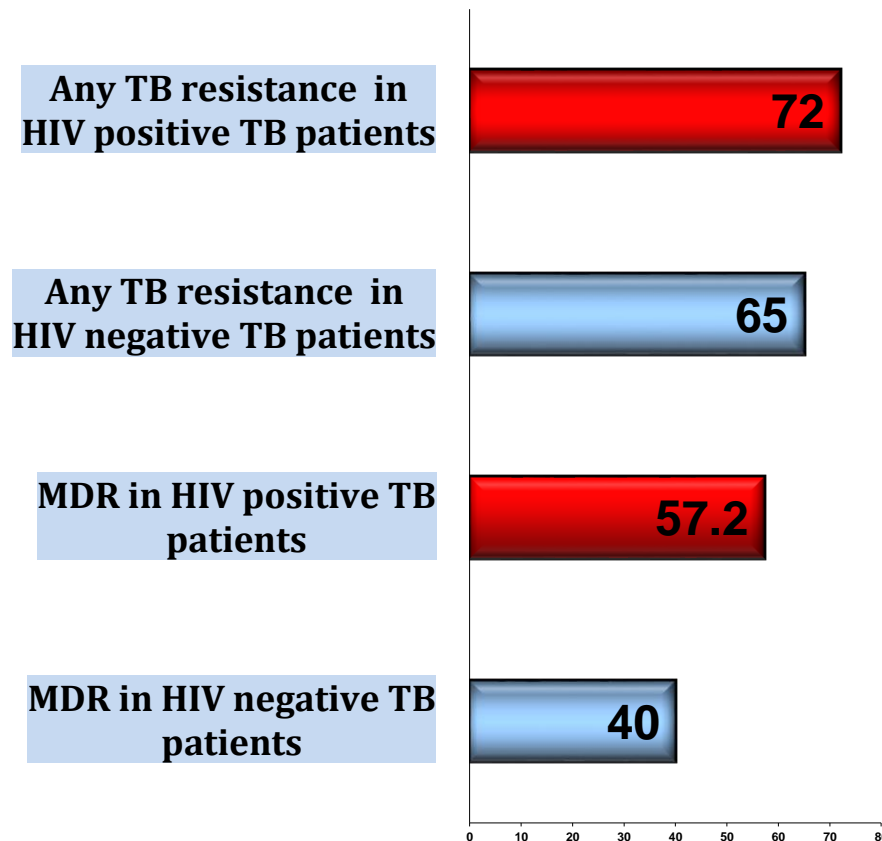
Genotype	Sensitive	Resistance	Total
Beijing	22	64	86
Ural	11	35	46
Haarlem 1	1	0	1
Haarlem 4	1	40	41
NT	0	2	2
T1	2	0	2
T3	3	0	3
LAM	13	2	15
Moldova like H ₃₇ RvD	13	4	17
X	1	1	2
CAMERROON	1	0	1
Haarlem	6	0	6
Total	74	148	222

TB-HIV co-infection in Republic of Moldova, 2007 – 2011

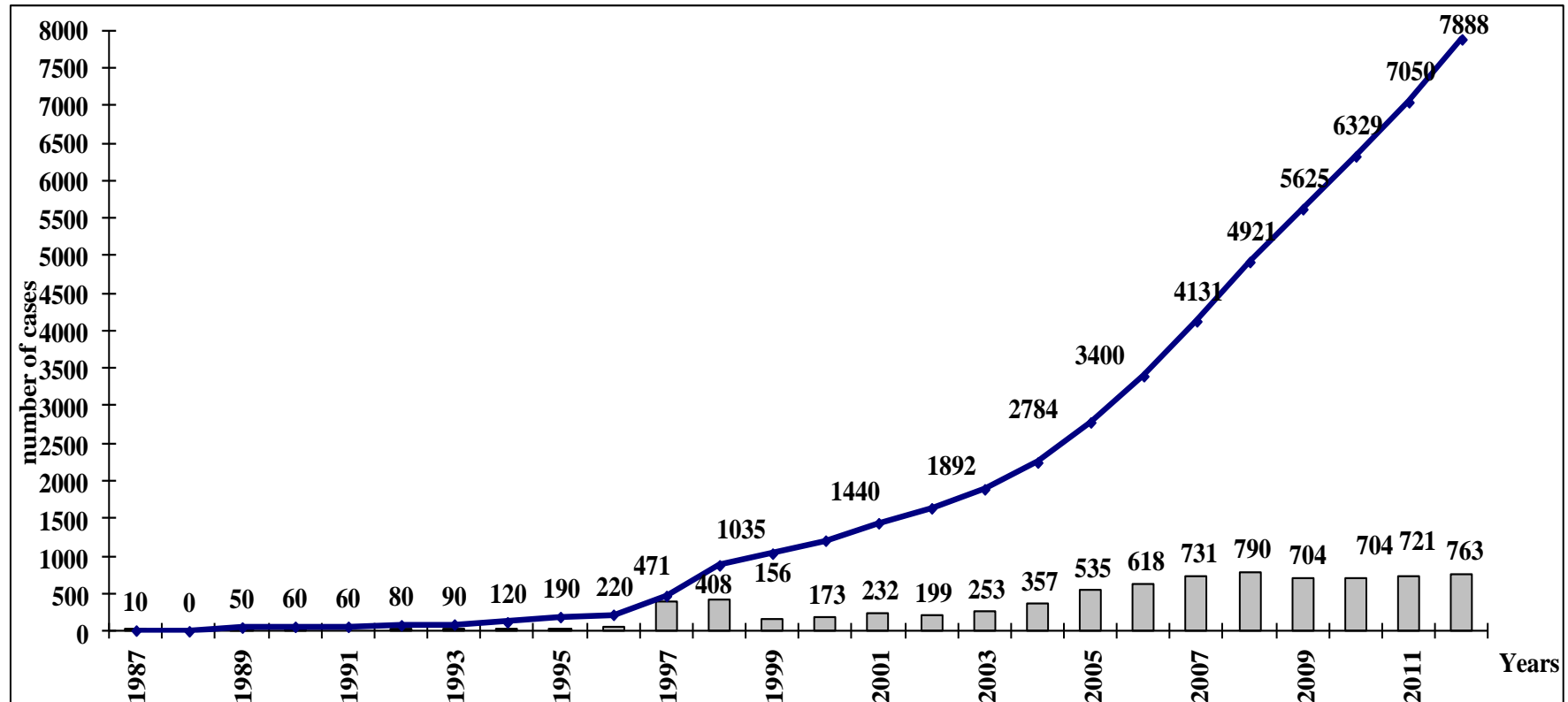
Rate of mortality among
TB&HIV co-infection patients



Prevalence of any resistance and MDR
among TB&HIV co-infection cases



Dinamics of morbidity of HIV/AIDS in R.Moldova, 1987 – 2012

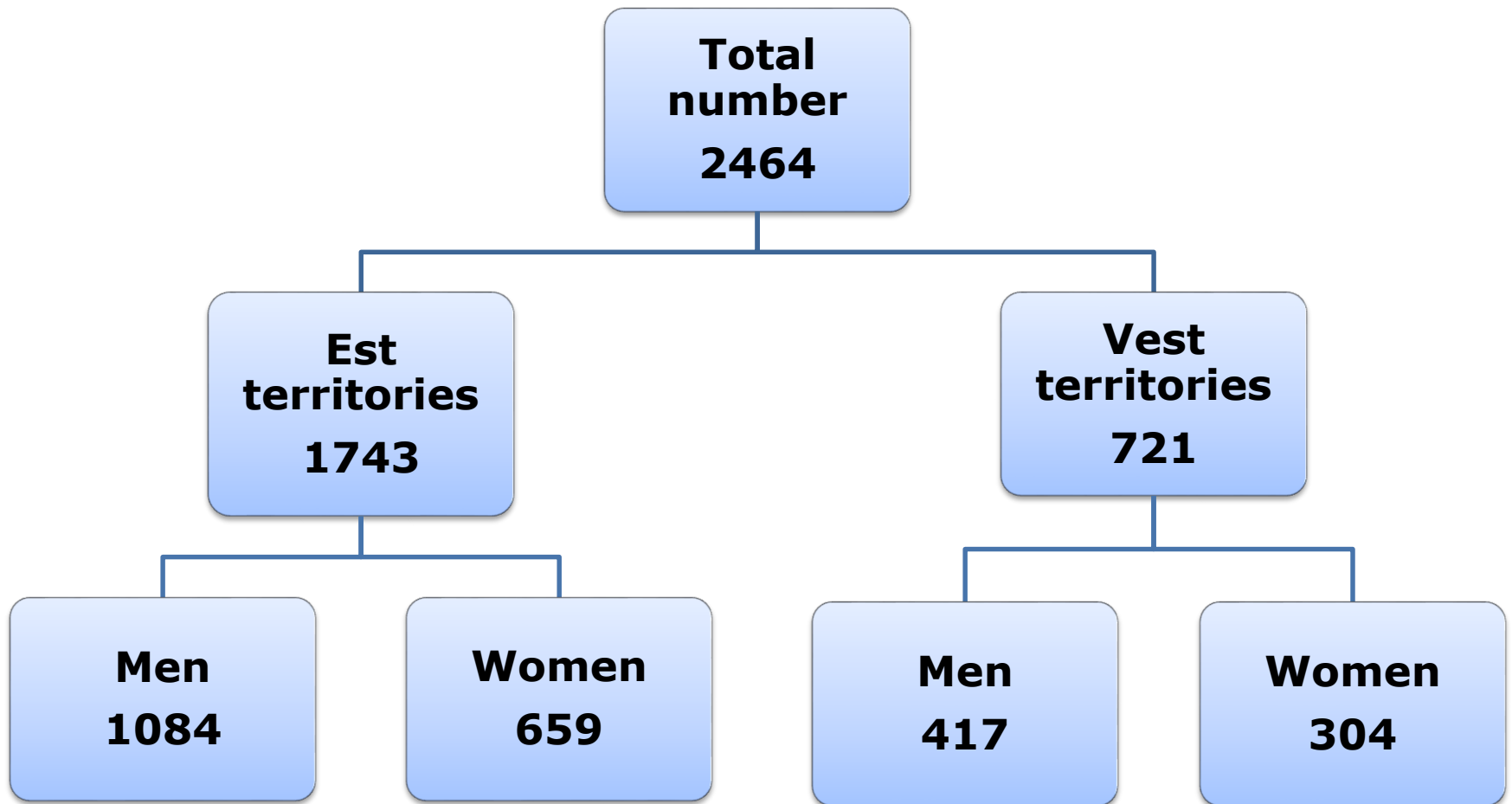


□ In Republic of Moldova at 31 December 2014

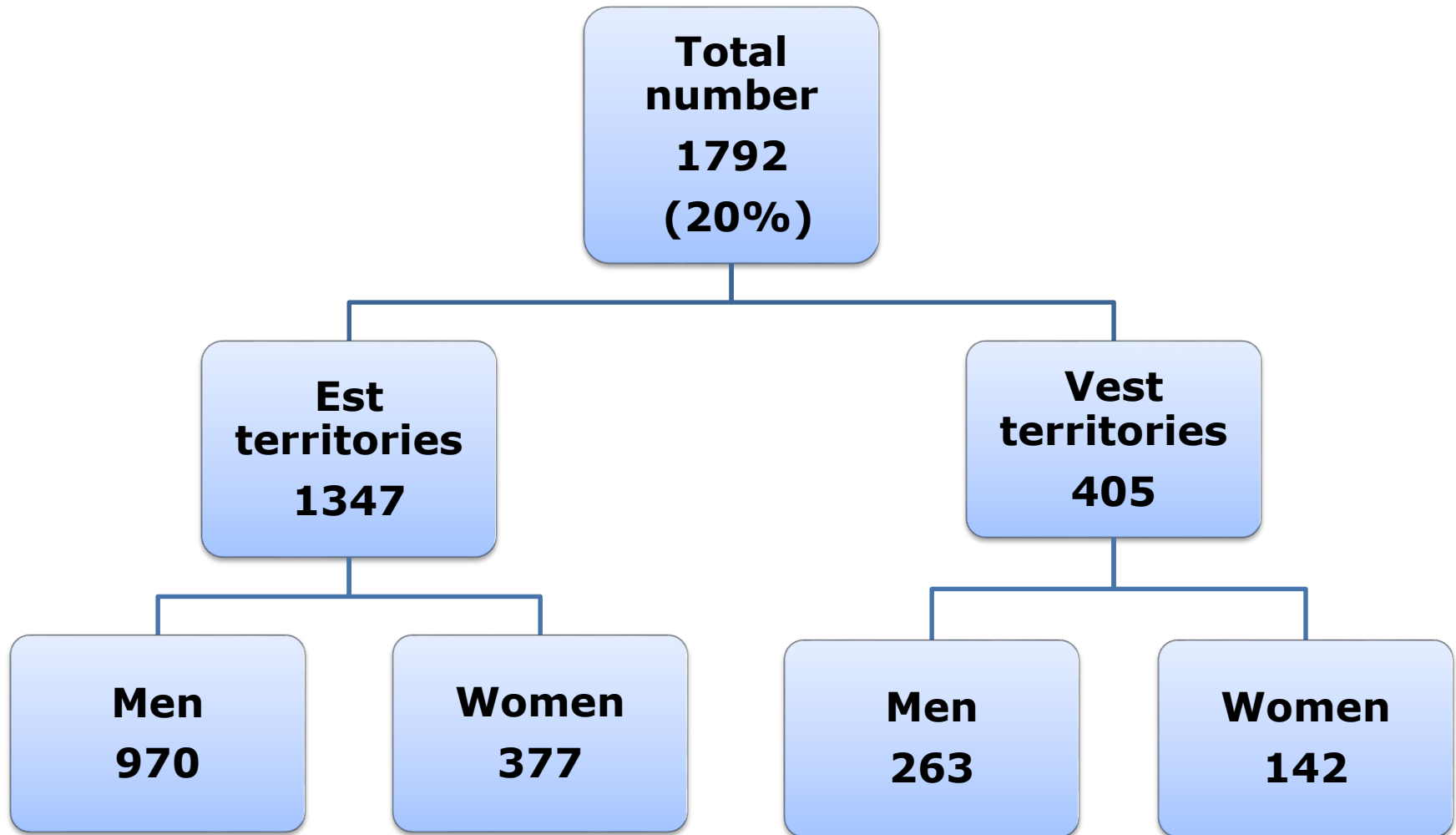
➤ 8557 cases (Est territories - 2775)

- 77,13% patients are at the active evidence
- 47% are in treatment HARV

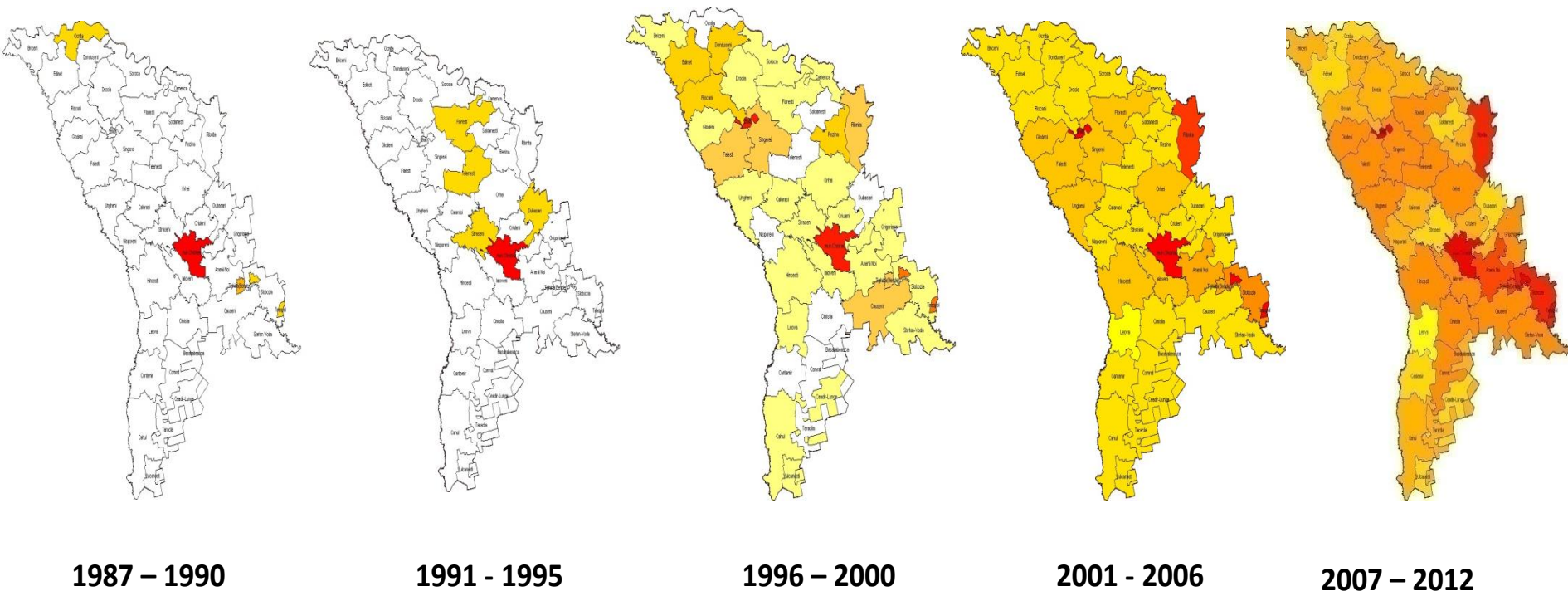
The AIDS cases in population of R.Moldova



The number of deaths as a result of HIV/AIDS

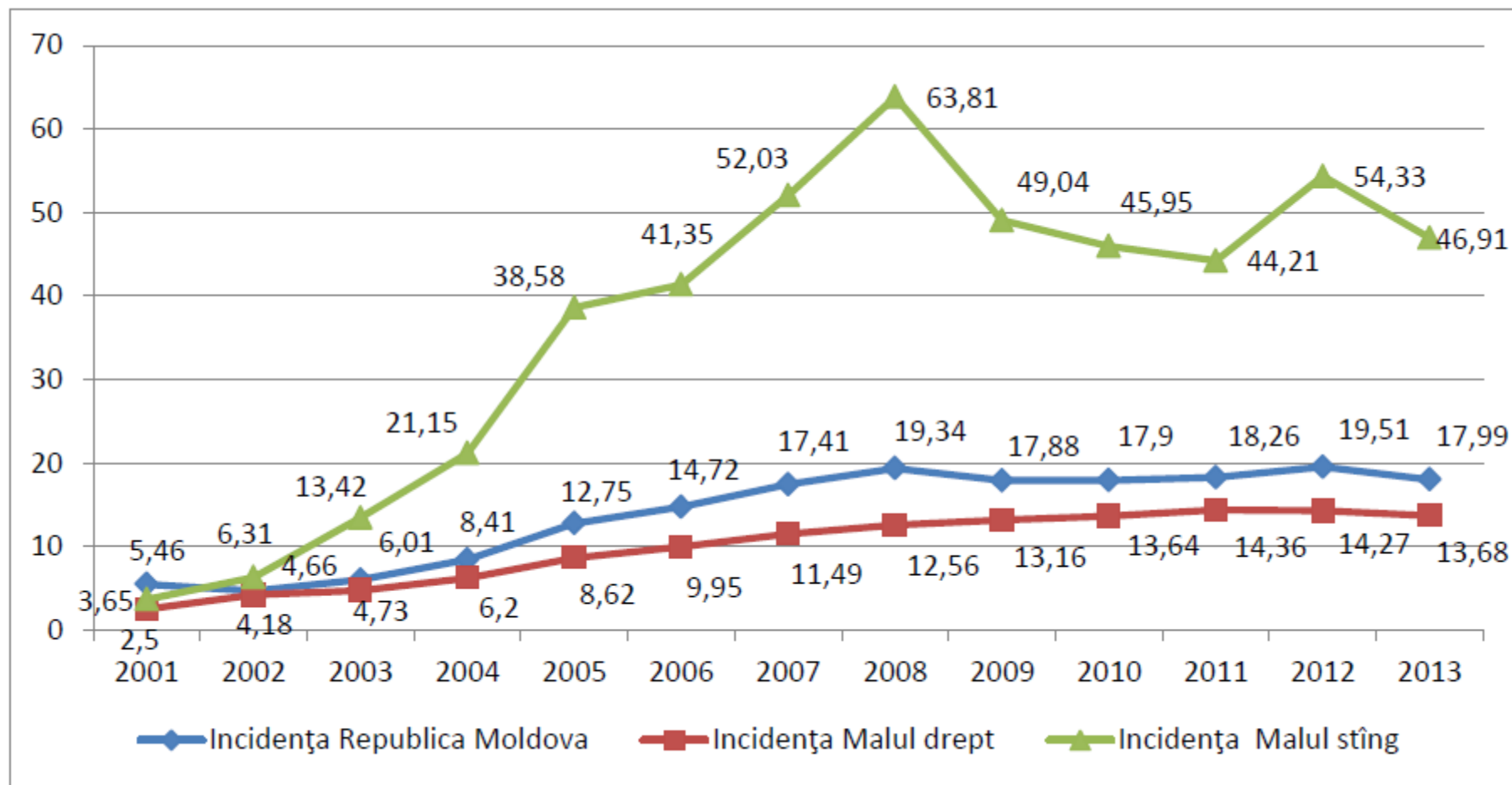


Prevalence of HIV in administrative territories in different periods of time

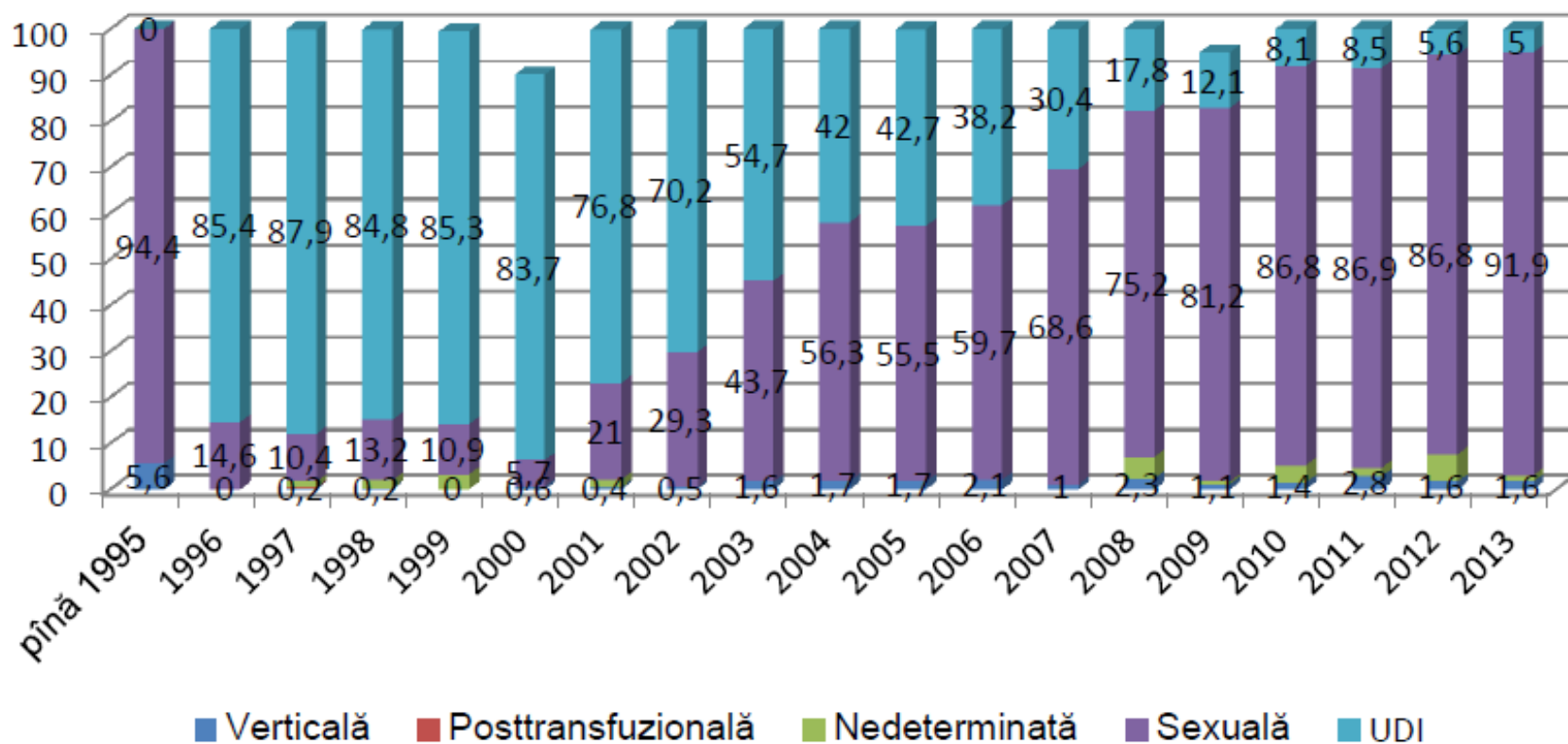


<1 caz	1–5 cazuri	6–10 cazuri	11–20 cazuri	20–30 cazuri	31–50 cazuri	51–100 cazuri	> 100 cazuri

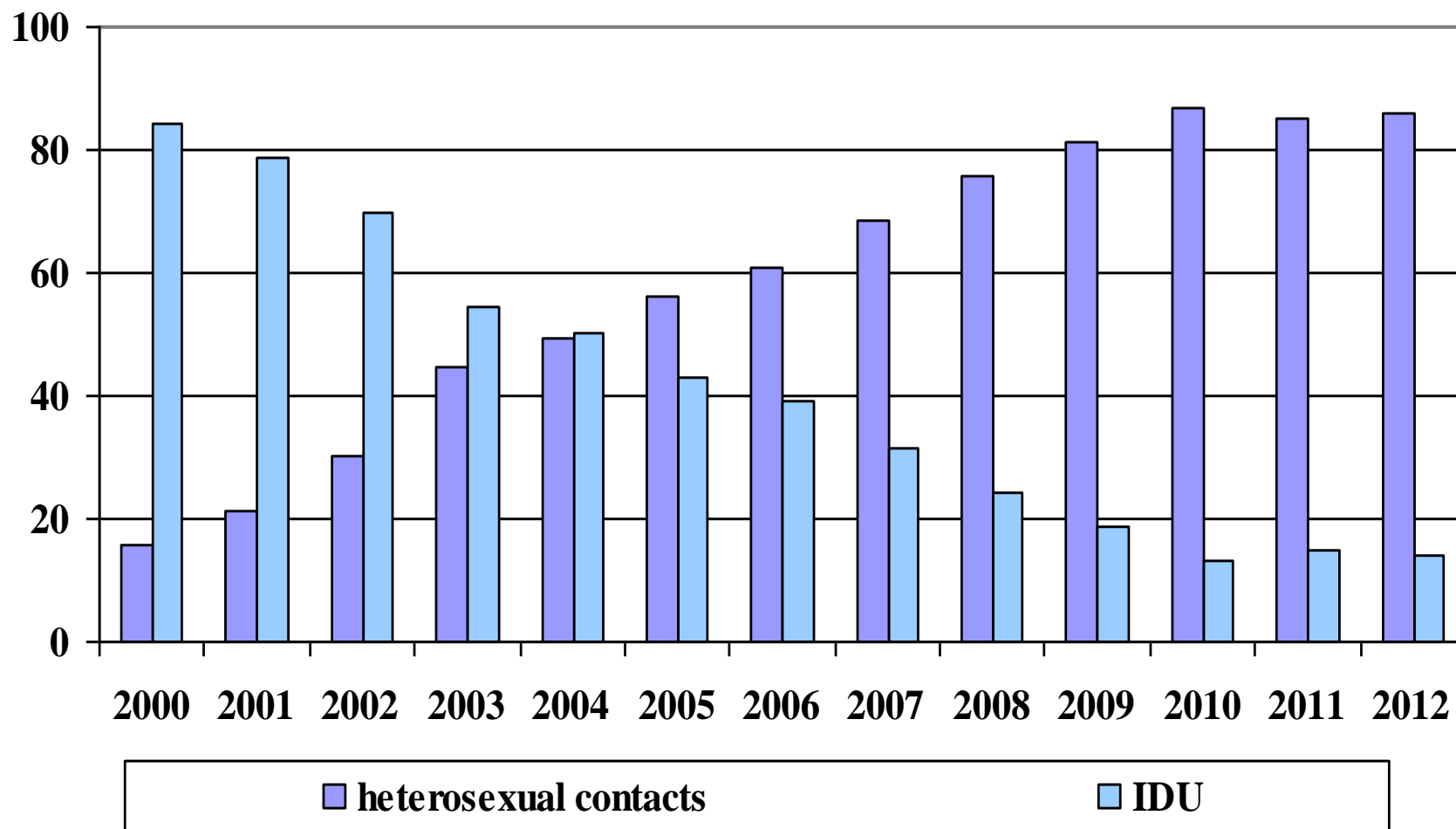
The incidence of HIV in R.Moldova, 2001-2013



The ways of transmission of HIV, 2000-2012(%)



The main ways of transmission of HIV, Republic of Moldova, 2000-2012(%)





National Program of TB surveillance and control 2016-2020

- ✓ Effective control of co-infection TB / HIV among TB cases.
- ✓ Capacity building for achieving effective control of co-infection of TB / HIV;
- ✓ Diagnosis, prevention and treatment of HIV patients with TB;
- ✓ Diagnosis, prevention and treatment of TB in HIV patients;
- ✓ Involvement of society in the activities.
- ✓ Development and implementation of the WHO Strategy "Practical approach to lung health"

National Program of HIV/ AIDS surveillance and control 2016-2020

- ✓ promoting healthy lifestyles;
- ✓ behavior change communication;
- ✓ expanding of HIV prevention among the rural population and emigrants;
- ✓ expanding access to health services (VCT, early detection, treatment, care and support);
- ✓ maintaining the epidemic situation of HIV in concentrated epidemic stage.



Thank you for
attention!