

# **TB, MDR-TB and HIV management in prisons: Moldavian experience**

---

**Dr. Victor Burinschi (1), Dr. Vladimir Taranu (2),  
Dr. Andrei Corlateanu (2), Prof. Dmitri Sain (3),  
Dr. Valeriu Crudu(4), Dr. Stefan Gheorghita (5),  
Dr. Vitalie Morosanu (6), Dr. Petru Sari (6),  
Dr. Sergiu Catanoi (6), Mr. Lilian Severin (6),  
Mrs. Svetlana Plamadeala (6), Dr. Rita Seicas (7),**

- (1) TB/AIDS Programme GFATM and WB,  
(2) Penitentiary Department, Ministry of Justice,  
(3) NTP, (4) National TB Reference Laboratory,  
(5) AIDS Center, (6) NGO "Carlux", (7) MSH

**38-th IUATLD WORLD CONFERENCE ON LUNG HEALTH,  
CAPE TOWN, SOUTH AFRICA,  
Cape Town International Convention Centre, 08 - 12 November, 2007**

# Moldova, Republic of

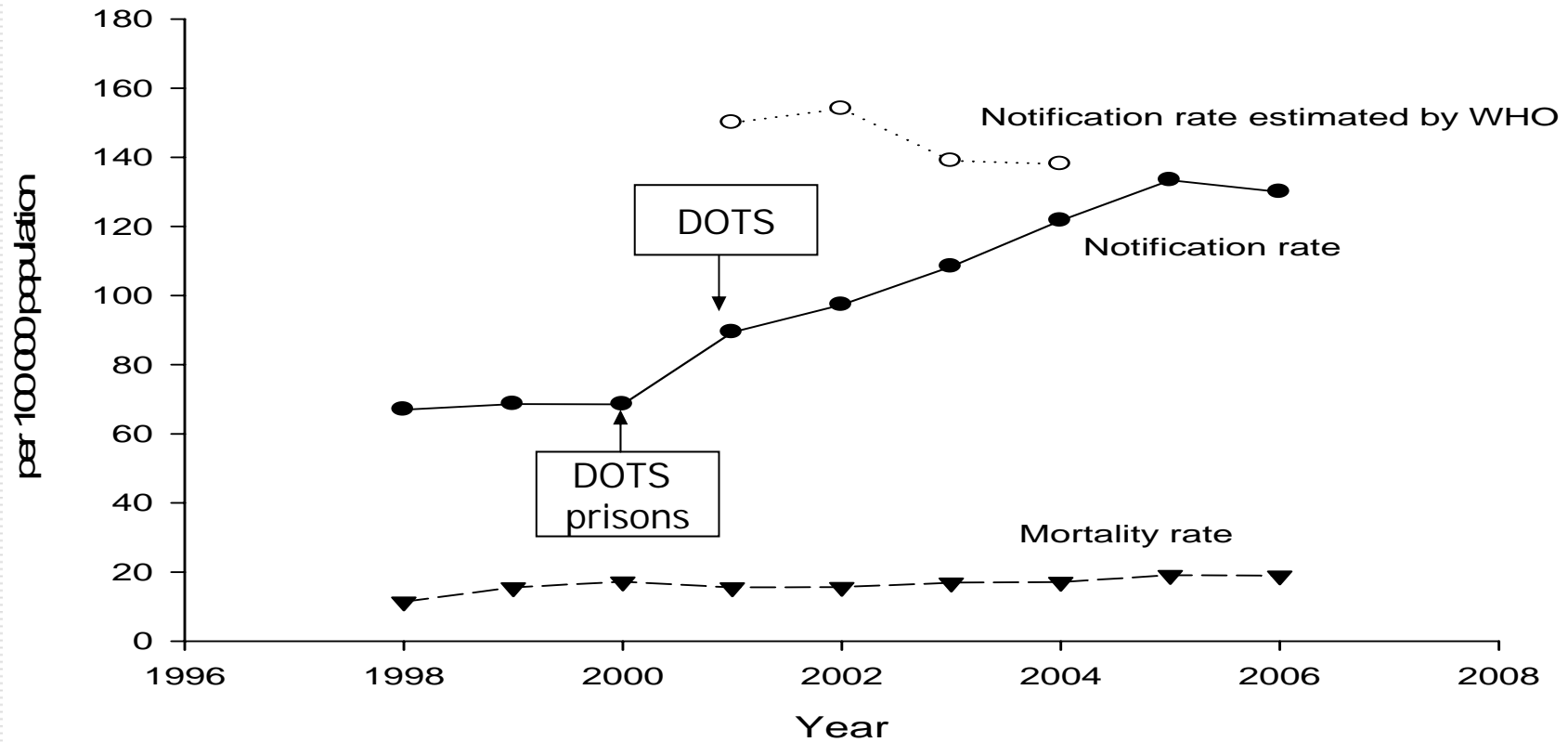
- ❑ **Population:** 3,9 million
- ❑ **Surface area:** 33.7 thousand sq. km
- ❑ **Population per sq. km:** 116
- ❑ **Population growth (2005):** - 0.3%
- ❑ **Life expectancy (2006):** 65,7 years males, 72,2 years females
- ❑ **Population below national poverty line % (2005):** 20.8
- ❑ **GNP per capita (US\$, 2005):** 930
- ❑ **GDP (US\$ billions, 2005):** 2,92
- ❑ **Unemployment (% of total labor force, 2005):** 8.1
- ❑ **Migration:** 25% out of labour force (2004, National Bureau of Statistics)
- ❑ **HIV/AIDS prevalence rate (2006):** 80,79 ‰
- ❑ **TB notification rate (2006):** 132,5 ‰

Sources: *World Development Indicators (2006)*  
*National Bureau of Statistics,*  
*National AIDS Centre,*  
*National Tuberculosis Programme*



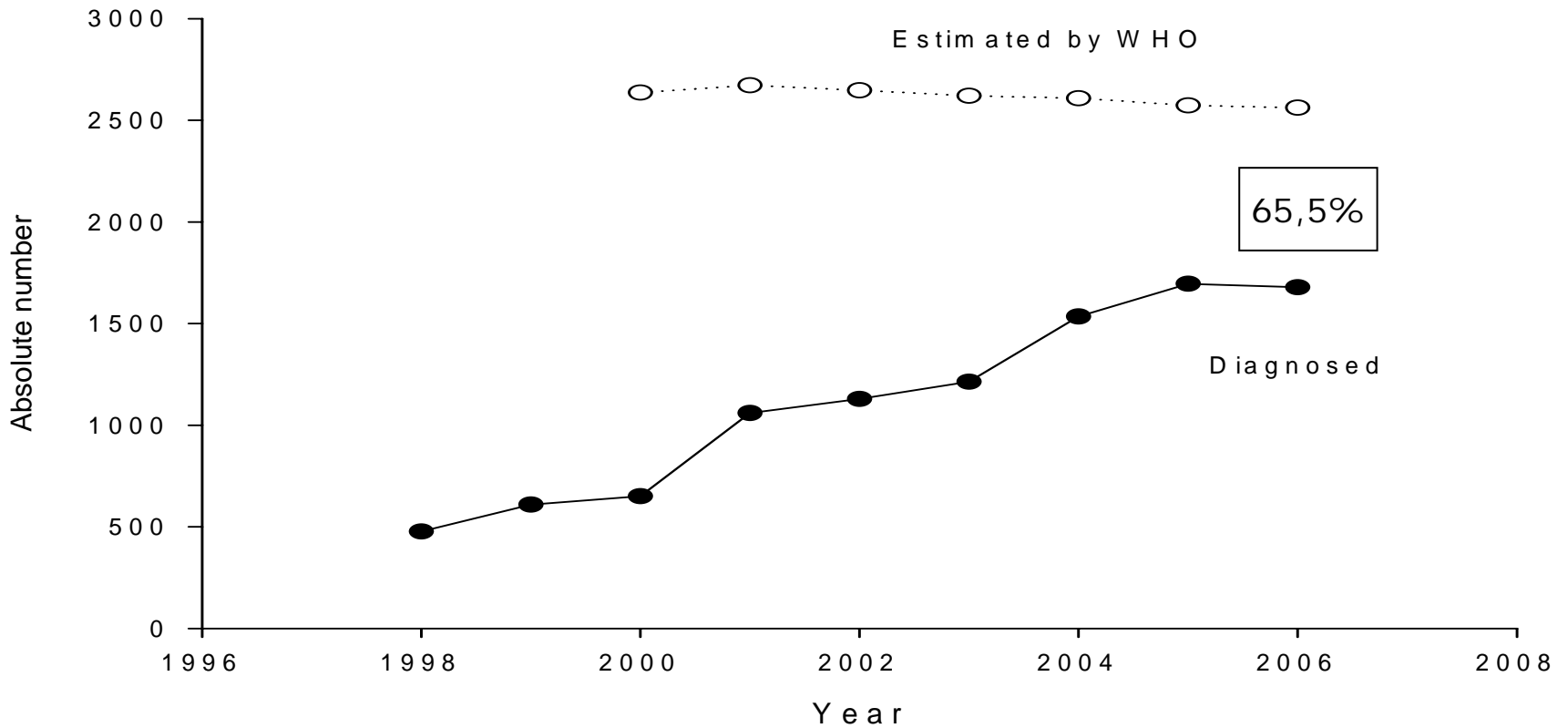
# TB Epidemiology

Evolution of TB indicators (notification & mortality rates) 1998 - 2006



# TB Epidemiology

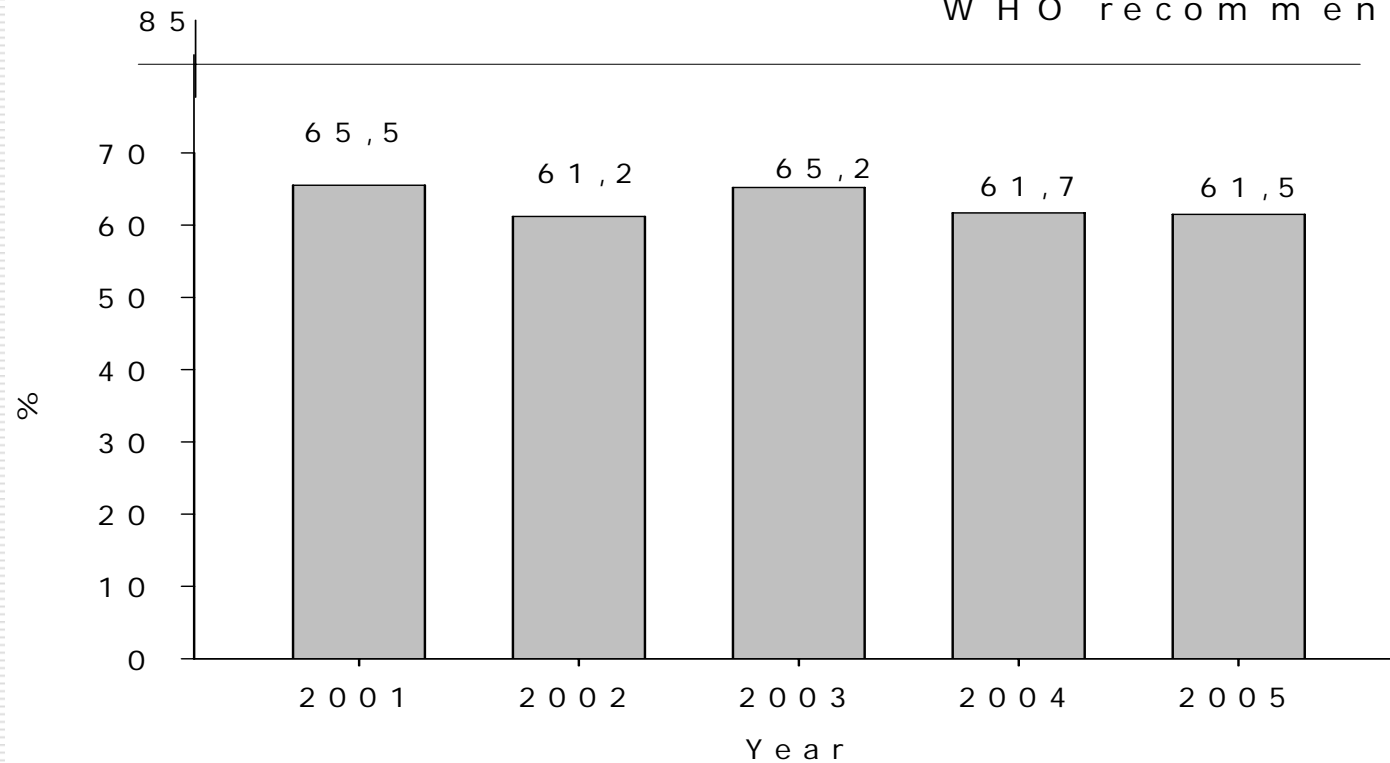
Diagnosis of new pulmonary TB SS+ cases in Moldova



# TB Epidemiology

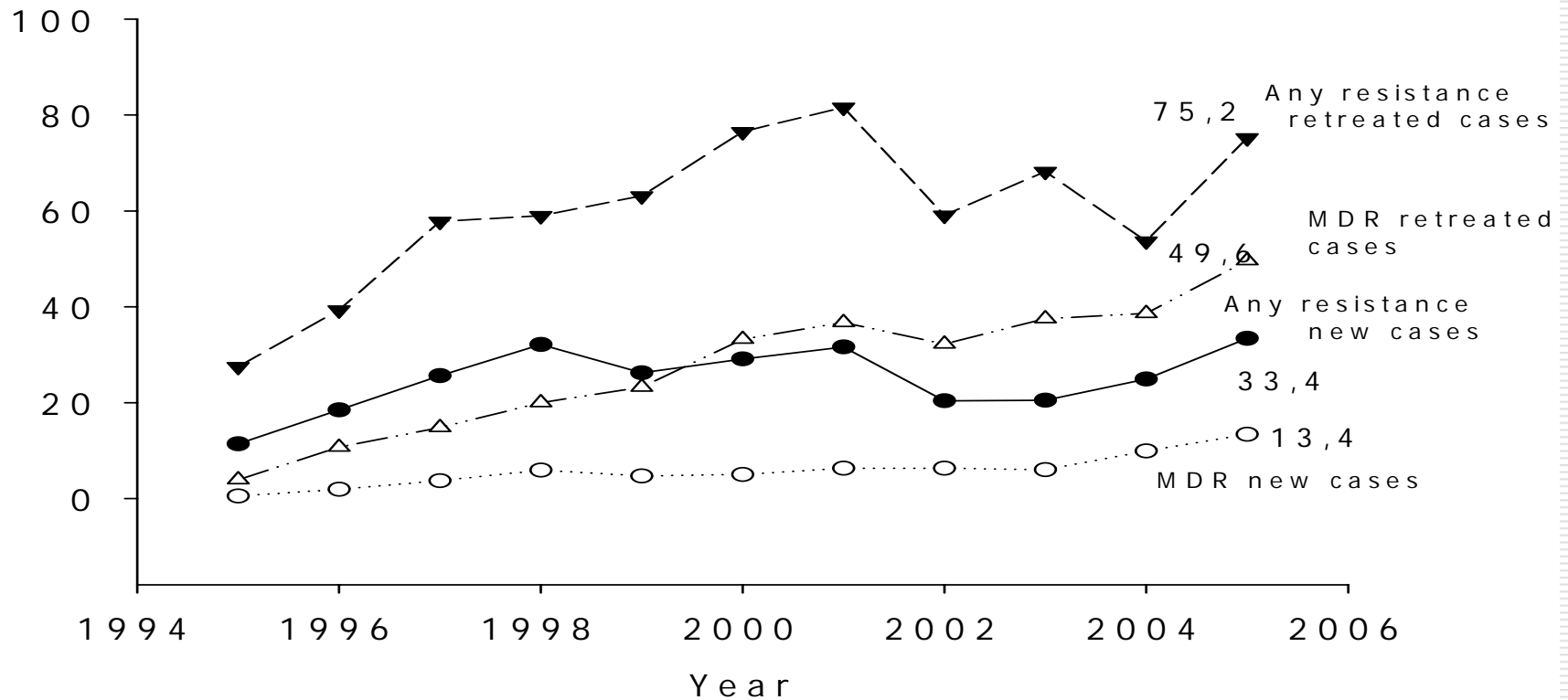
T O M of New S S + T B cases in the Republic of M o l d o v a

W H O r e c o m m e n d a t i o n s



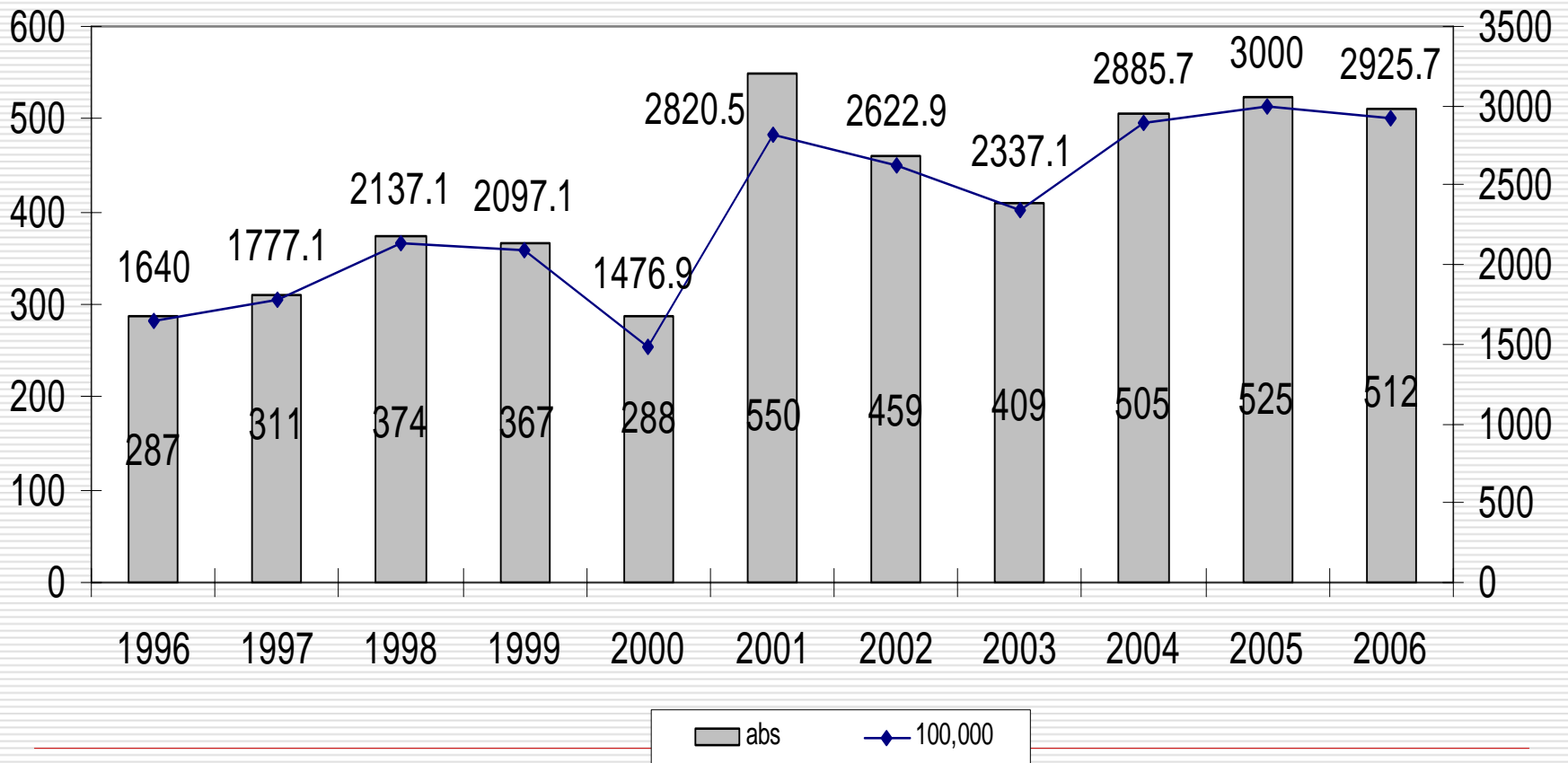
# TB Epidemiology

Any and MDR TB drug resistance between new and retreated cases in the Republic of Moldova



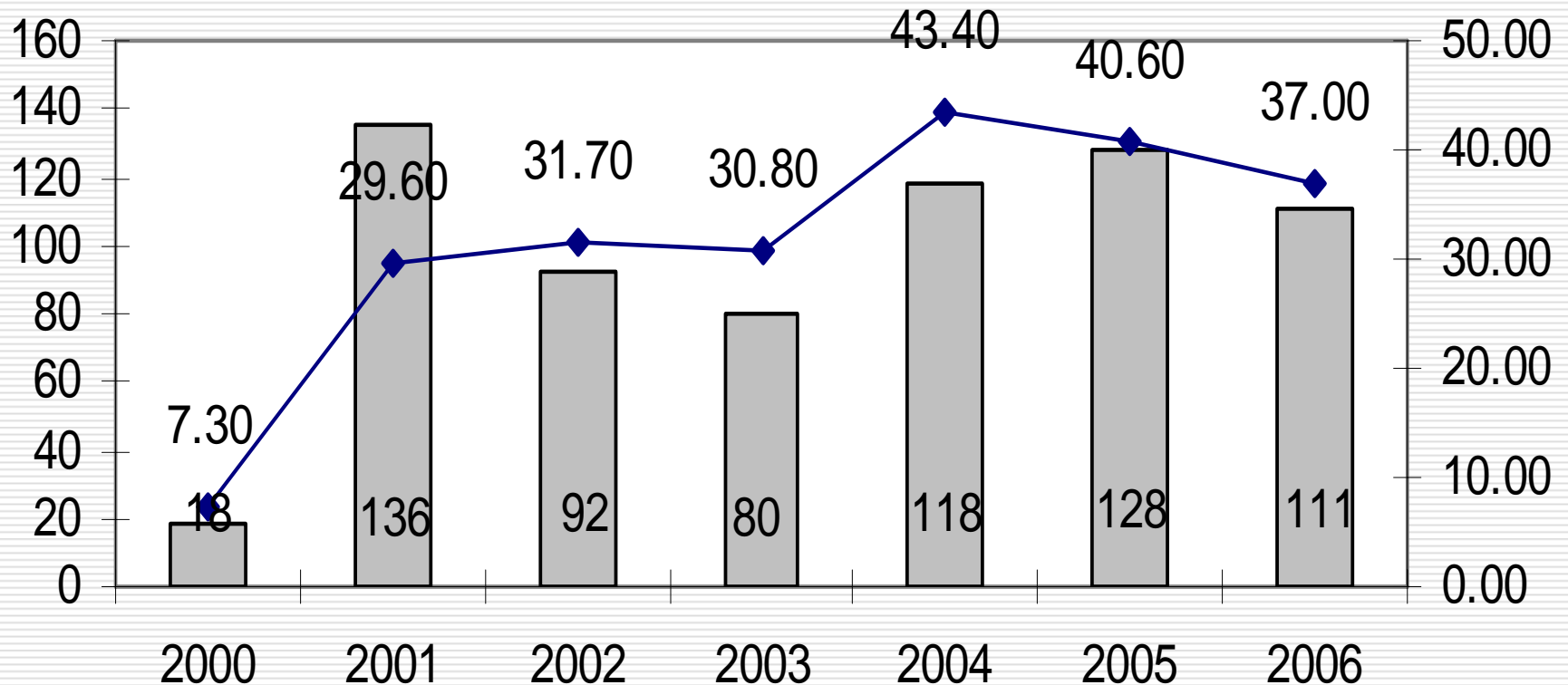
# TB Epidemiology

Evolution of TB notification rate (new & relapses) in prisons of the Republic of Moldova during 1996-2006



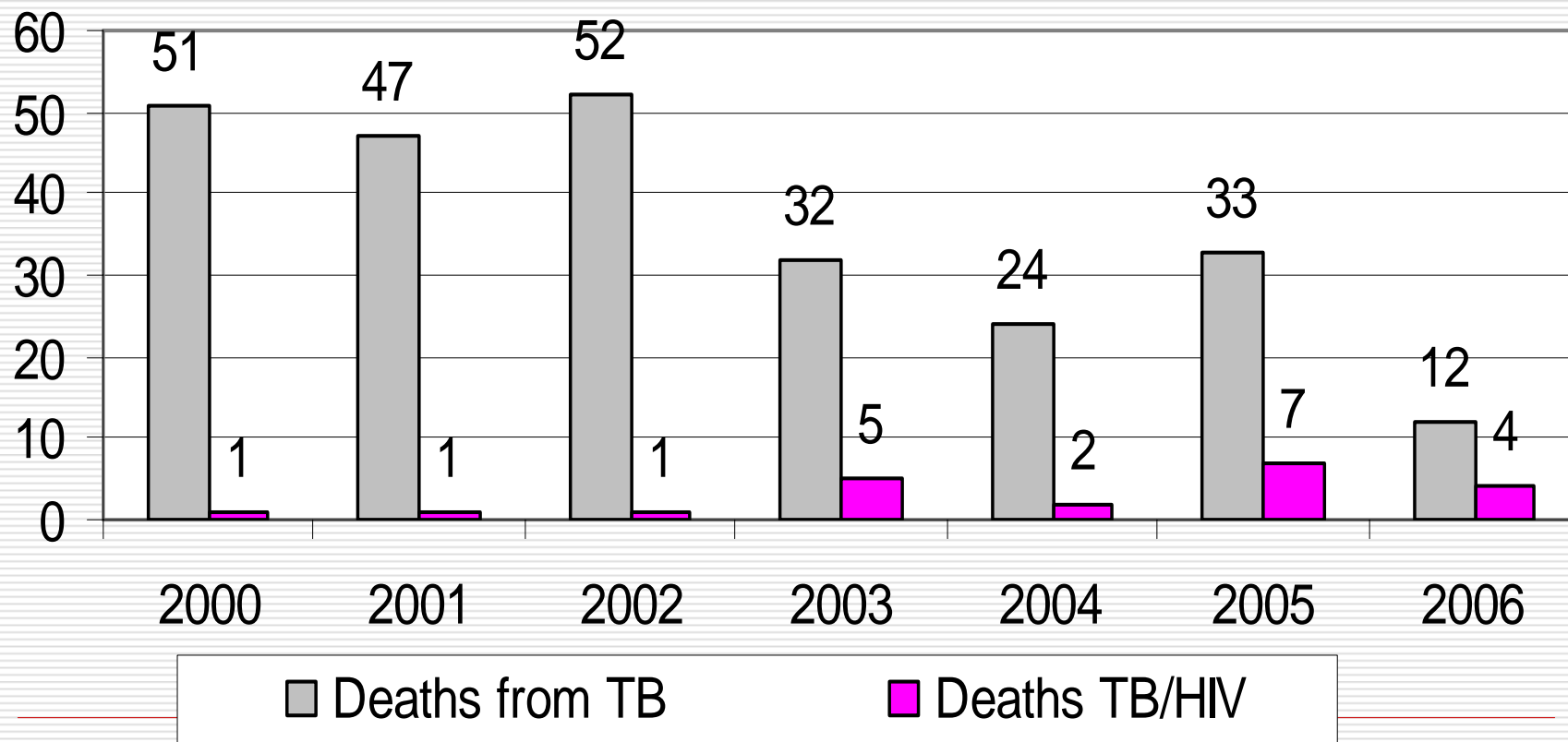
# TB Epidemiology

**New pulmonary SS+ cases (absolute number and confirmation ratio) in prisons of Moldova**



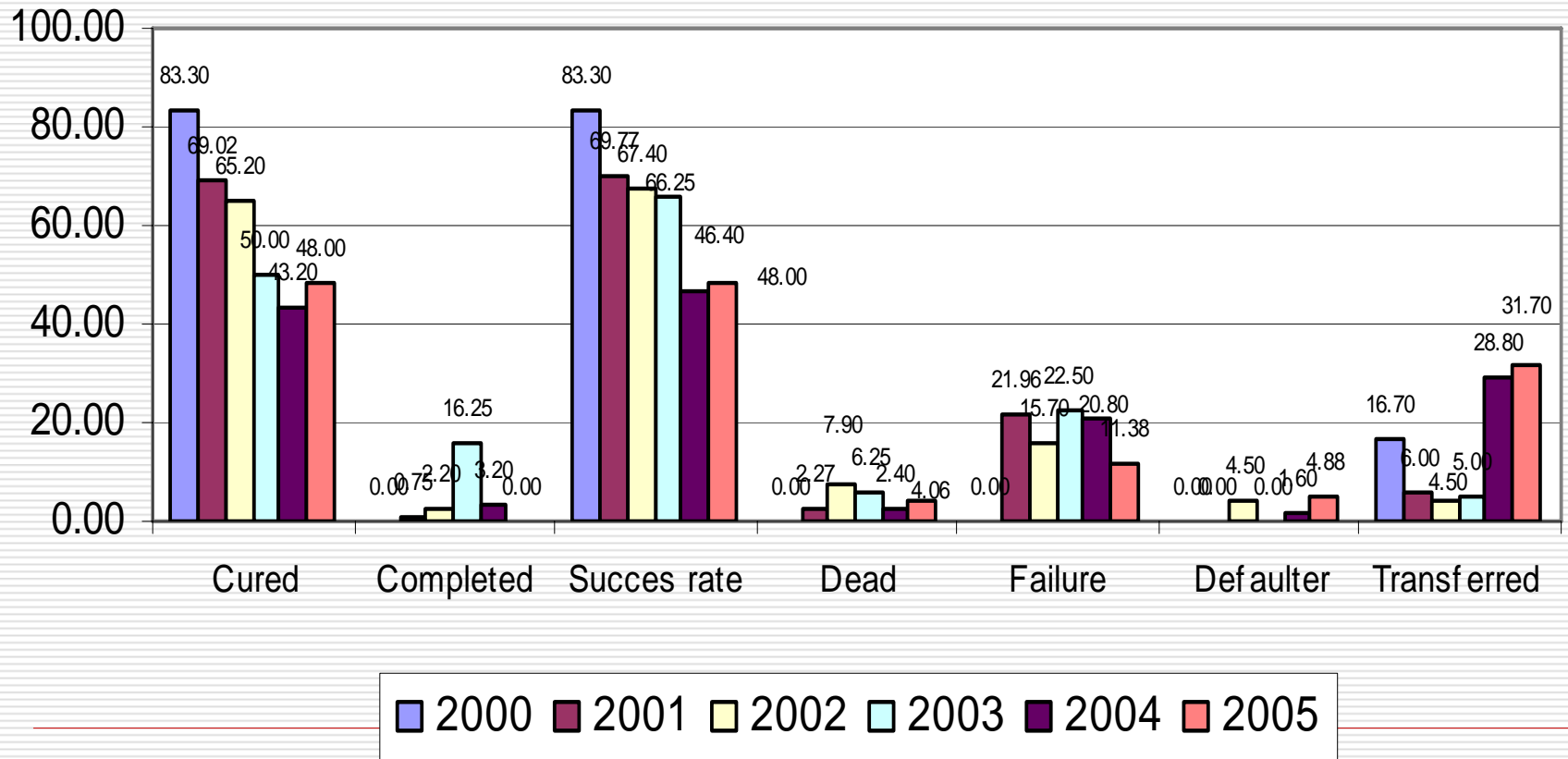
# TB Epidemiology

## TB mortality in prisons of the Republic of Moldova



# TB Epidemiology

## TOM of new SS+ pulmonary TB cases in prisons of the Republic of Moldova



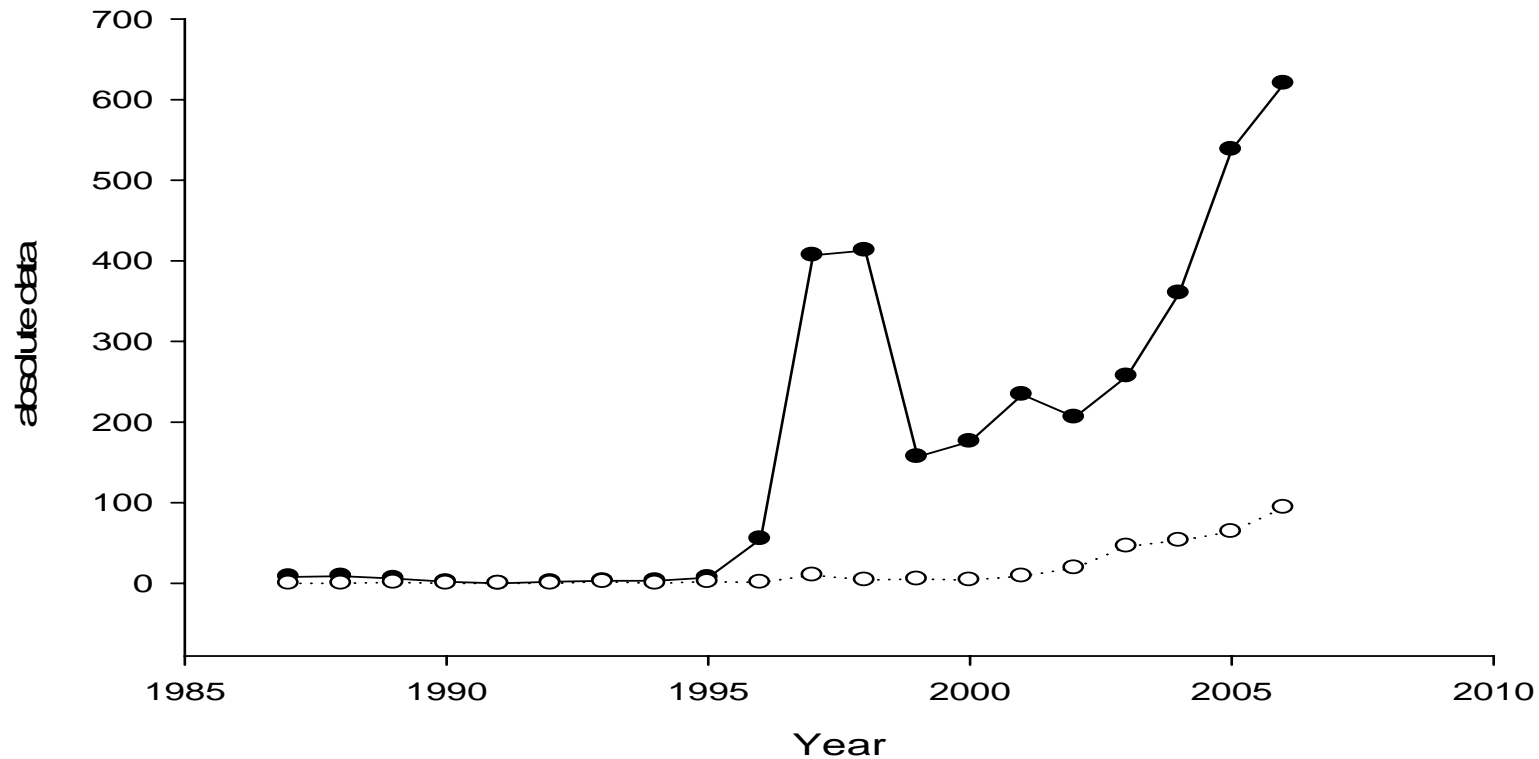
# TB Epidemiology

MDR clinical survey in prisons of the Republic of Moldova  
(2003)



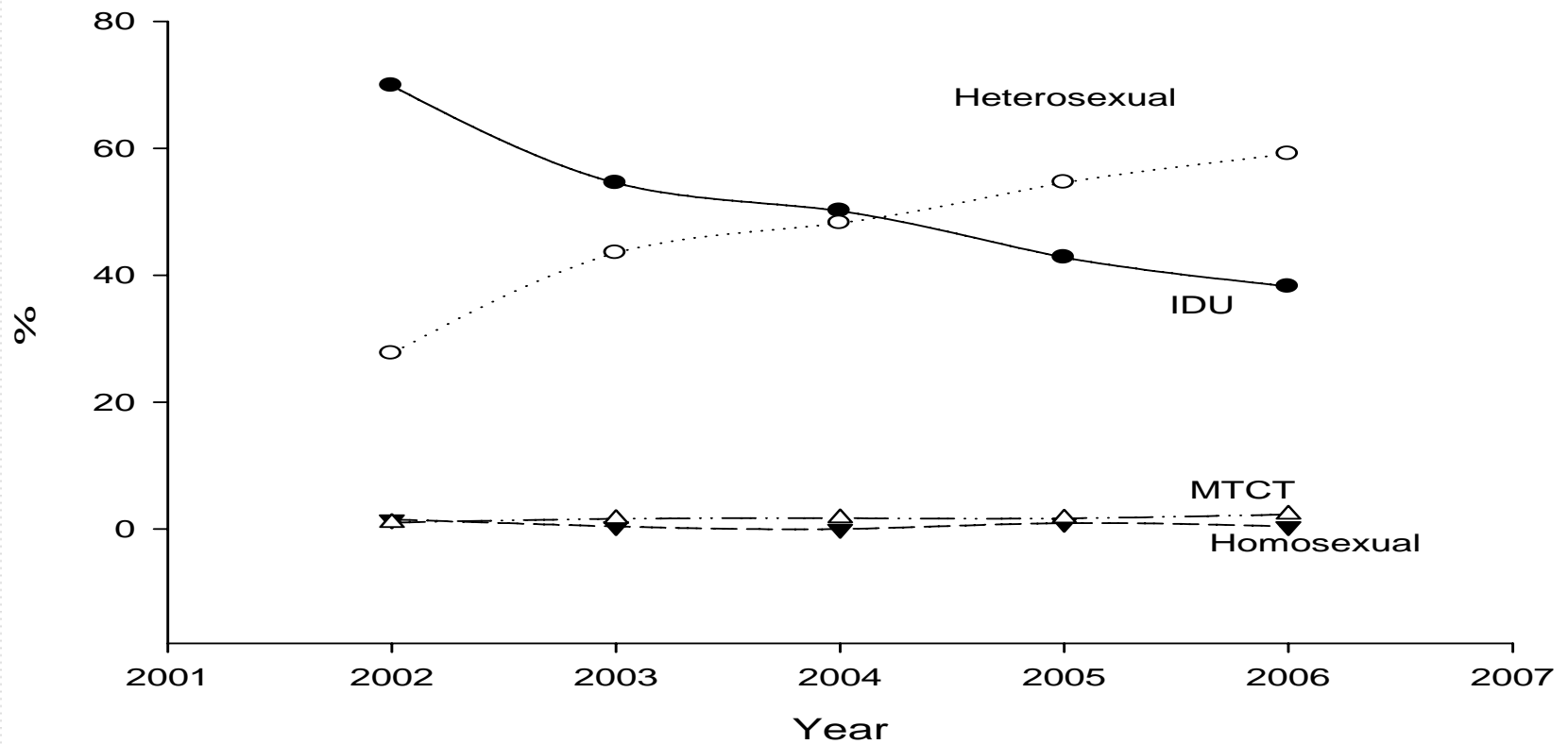
# HIV/AIDS Epidemiology

Dynamics of HIV and AIDS cases in Republic of Moldova during 1987-2006



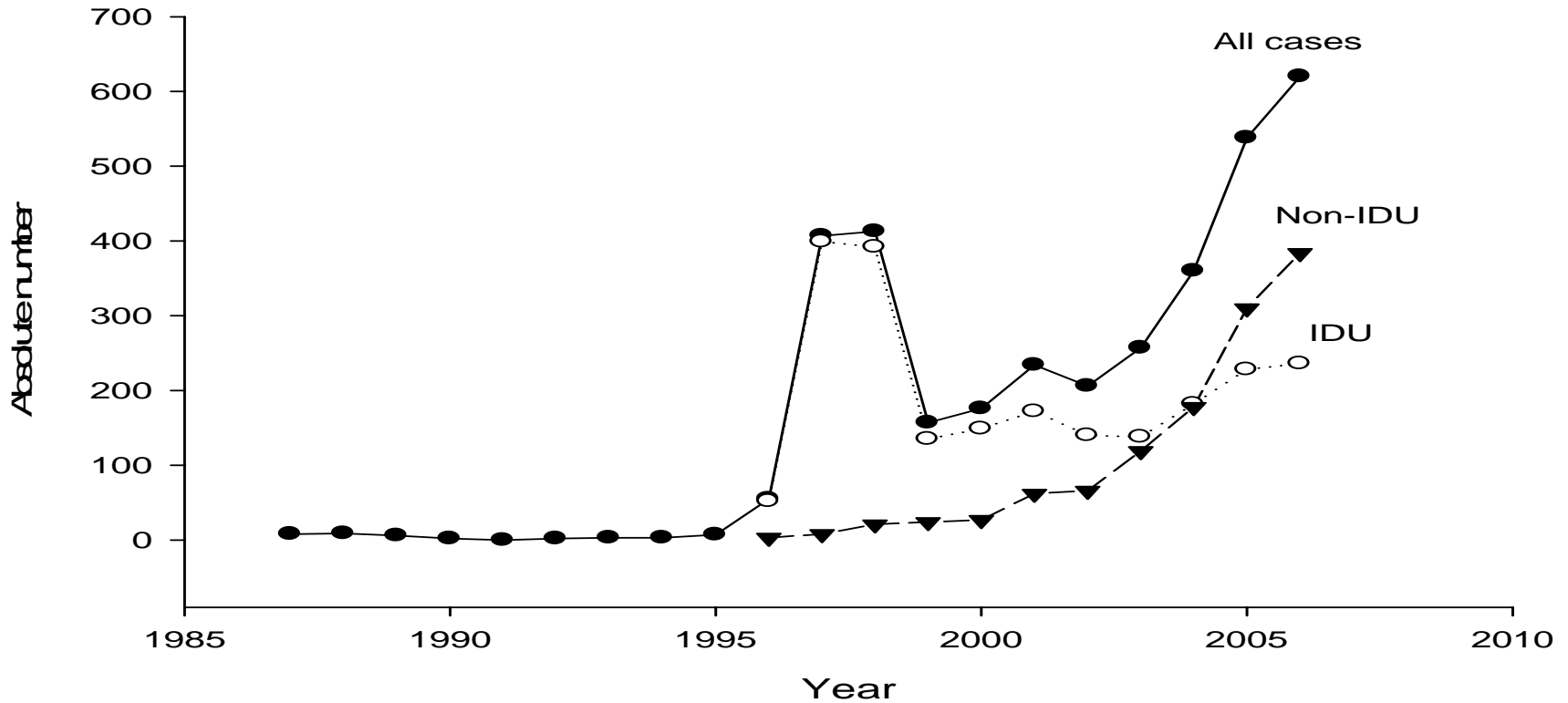
# HIV/AIDS Epidemiology

Route of transmission 2002 - 2006



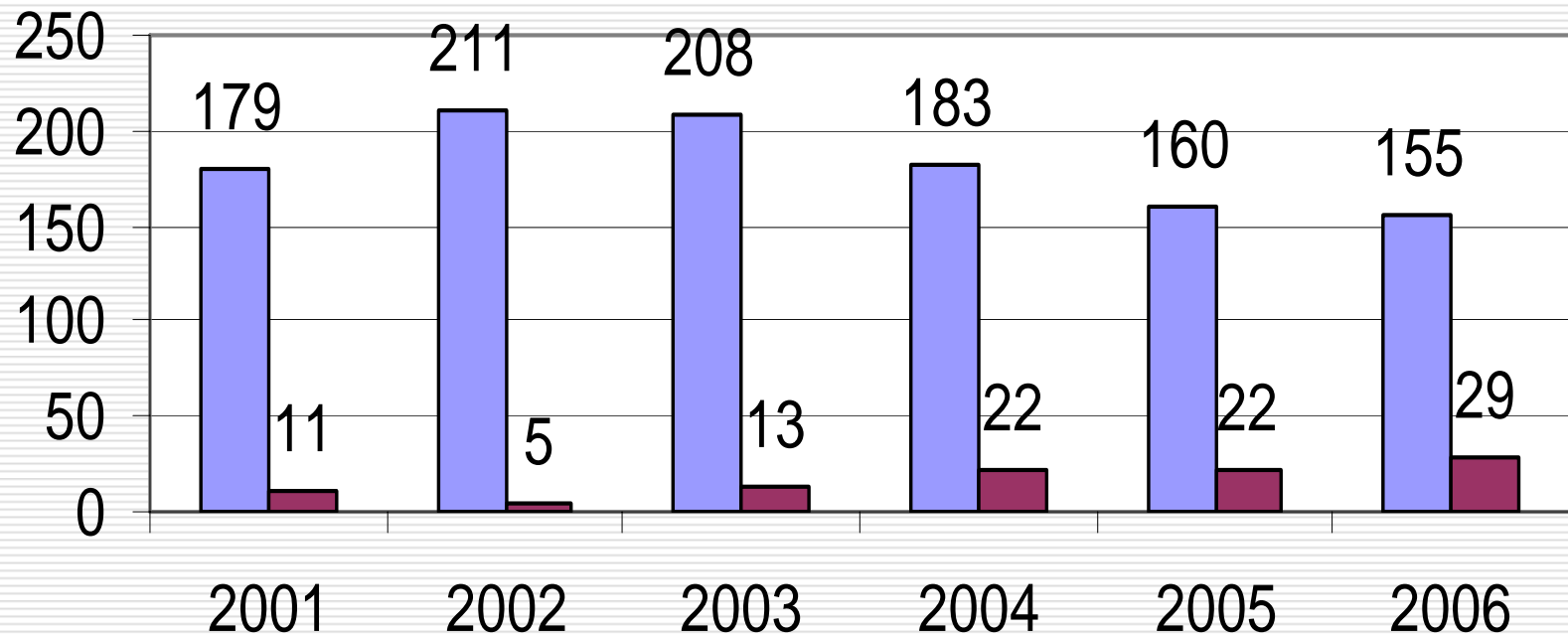
# HIV/AIDS Epidemiology

Dynamic of new HIV cases in 1987 - 2006



# HIV/AIDS Epidemiology

**Dynamic of HIV positive and co-infected HIV+/TB cases in prisons of the Republic of Moldova**



■ HIV+ cases ■ HIV+ / TB cases

# Policies

---

- 3 National AIDS Control Programmes (1996-2000, 2001-2005, 2006-2010)
  - 2 National TB Control Programmes DOTS based (2001-2005, 2006-2010)
  - Activities in prisons are component parts of National Programmes
-

# National HIV/AIDS/STI Program and National TB Program

---

Multiple sources of funding for the national programs:

- ❑ National budget (50% for TB and 33% for HIV)
  - ❑ GF Round 1 Grant – US\$ 11.7 million for HIV/TB Component (5 years - 2003 – 2008)
  - ❑ World Bank Grant – US\$ 5.85 million for HIV (5 years – 2003-2008)
  - ❑ USAID – US\$ 4.2 million for TB (2003-2007)
  - ❑ Other sources – Carlux, UN agencies, International agencies
  - ❑ GF Round 6 Grants – US\$ 27.8 million for HIV and TB components (5 years - 2008 – 2012)
-

# Coordination: CCM Architecture

# CCM

## CCM Secretariat

10 Working groups. Formulating objectives. Plans. Specifications.

Surveillance  
HIV

HIV social  
services

Harm Reduction

HIV Treatment  
and care

Communication  
& Prevention HIV

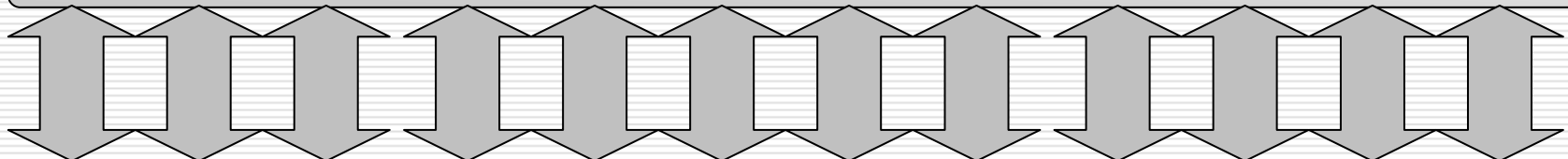
Diagnosis TB

Treatment TB

Bacteriology TB

Communication  
& Prevention TB

Monitoring and Evaluation TB/HIV



PCIMU: executing plans. Reporting

Beneficiaries

# Complexity. Critical Success Factors. Who brings what?

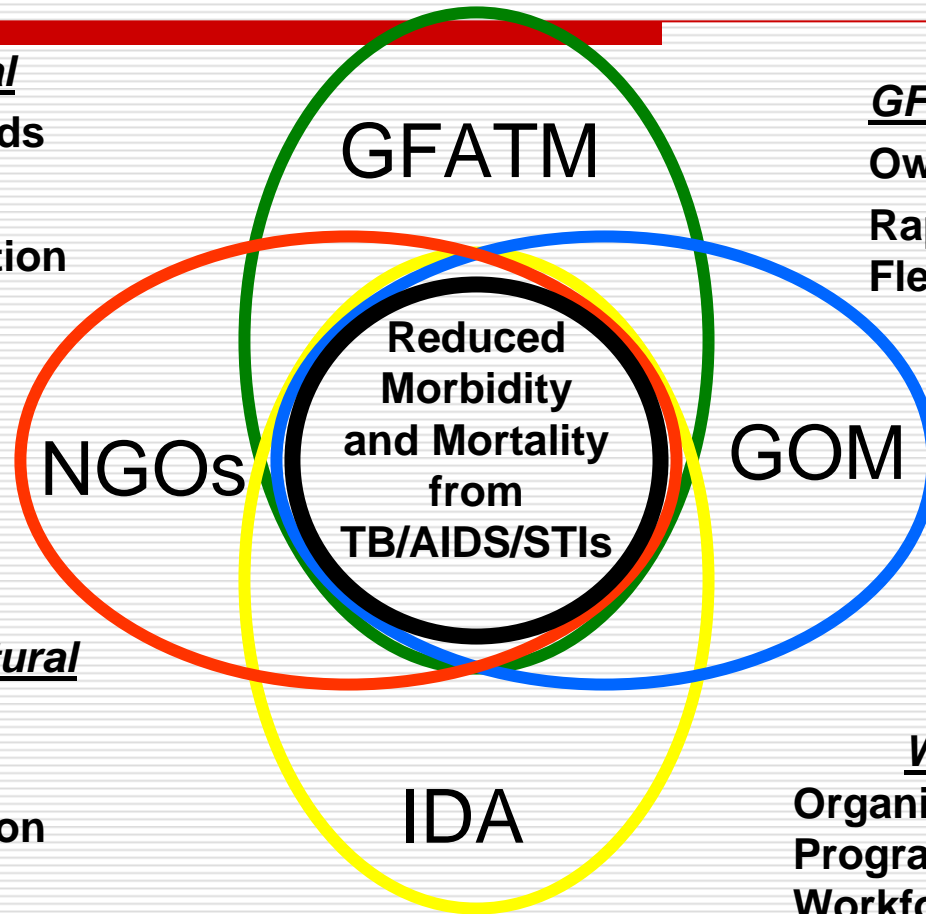
---

## PCIMU: Managerial

Incentives&Rewards  
Motivation  
Customer Orientation  
Interoperability  
Team spirit

## GFATM: Financial

Ownership  
Rapid Access to Funding  
Flexible Procedures



## GOM: Infrastructural

Facilities  
Capacity  
Vertical Integration  
Trained service providers  
Standards

## WB: Structural

Organisational Design  
Programme Concept  
Workforce Management  
Policies and Procedures  
Quality Management

---

# Achievements (TB area)

- DOTS cover all prisons since Q1.2004
  - ✓ Passive case detection
  - ✓ Active screening
  - ✓ Use of drugs in FDC
  - ✓ DOT
  - ✓ TOM
  - ✓ Involvement of volunteers for early TB detection from 2006
  
- DOTS Plus Project has started in Q1.2005 (34 patients)
  - ✓ Conversion rate through culture after 9 months of treatment is 63,6%

# Achievements (TB area)

---

- ❑ Training of medical staff in DOTS and DOTS-Plus
  - ❑ Procurement of medical equipment, reagents and consumables for smear microscopy, culture and DST investigations
  - ❑ Stable and continue supply with first line (GO & GDF) drugs and second line drugs (GO & GLC)
  - ❑ Ensure the continuation to DOTS treatment after release (KNCV)
  - ❑ Ensure adherence to DOTS Plus treatment (GF)
-

# Achievements (AIDS area)

---

## Interventions to reduce transmission among IDUs

- Needle exchange (6 prisons with 35.3% of detainees)
  - Substitution therapy
  - Peer-based education
-

# Achievements (AIDS area)

---

## Mitigation of HIV related disease

- ❑ Rational approach to care for HIV related disease (ARV - since 2003. AIDS a manageable chronic condition)
  - ❑ Appropriate preventive therapies for OIs
-

# What are the success factors in Moldova?

---

- ❑ Program interventions (HIV and TB) are comprehensive
  - ❑ Cooperation and active involvement by all stakeholders (GO, civil society, donors, UN Agencies)
  - ❑ Long-term financial support and good coordination at the national level for efficient use of resources
-

# Many Thanks!

---

For additional questions,  
please contact us at:  
Victor Burinschi,  
TB/AIDS Programme, PCIMU  
[vburinschi@ucimp.md](mailto:vburinschi@ucimp.md)

---