



HIV/AIDS epidemiology in Lithuania

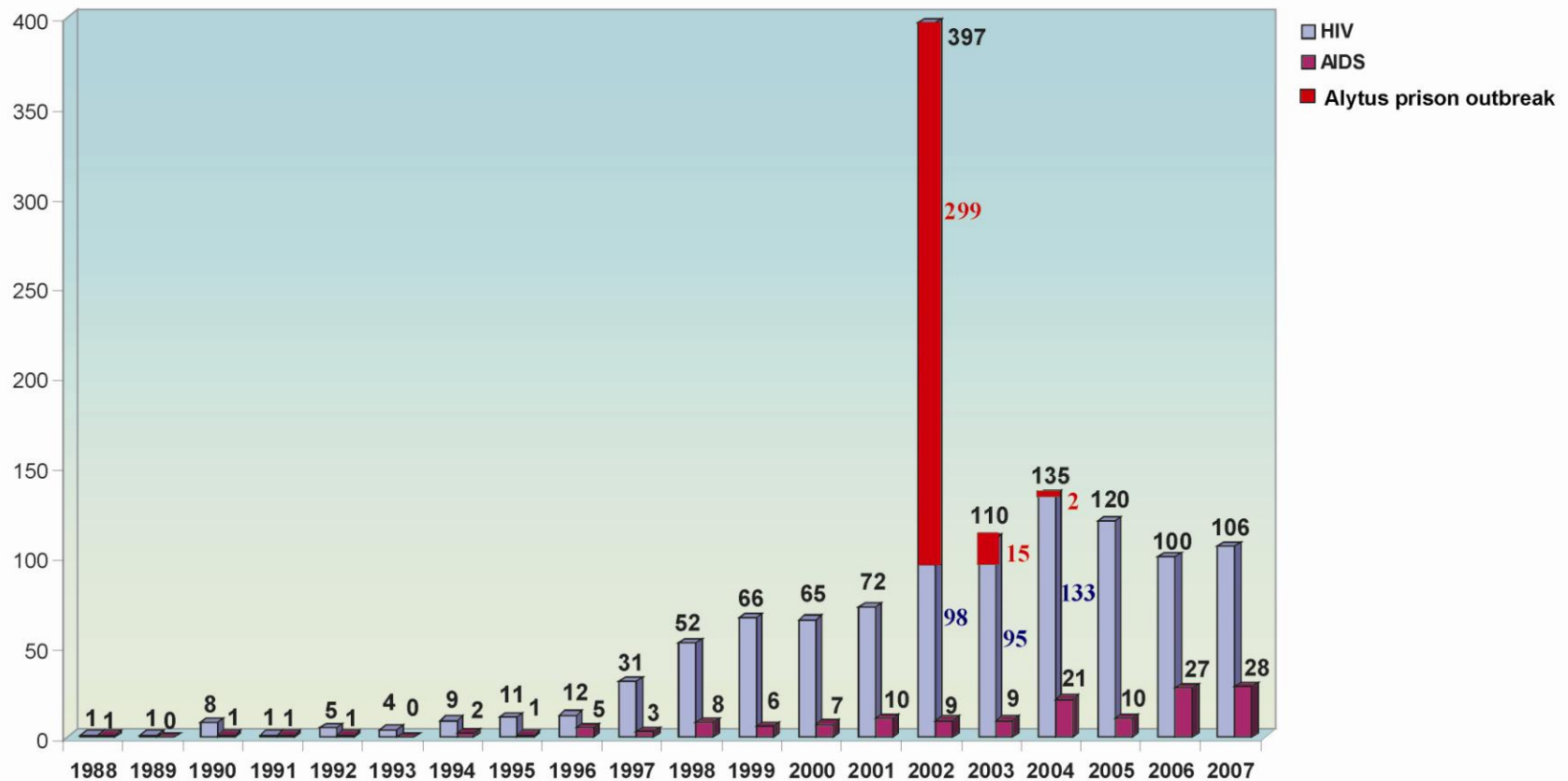
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Saulius Čaplinskas, MD, PhD

New HIV/AIDS cases diagnosed in Lithuania

2008 01 01



Saulius Čaplinskas, MD, PhD

HIV/AIDS in Lithuania

2008 01 01

(Population 3,4mln.)



**1306 cumulative HIV
diagnosed :**

2008 09 01

1358 HIV

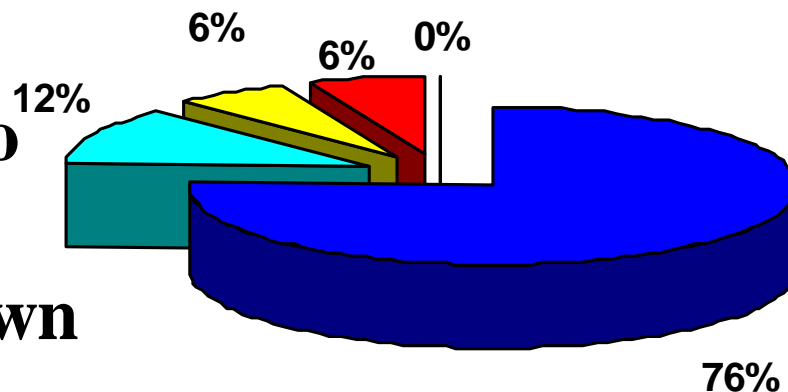
987 (76%) IDU

156 (12 %) hetero

83 (6%) homo

79 (6%) unknown

1 perinatal



■ IDU ■ hetero ■ homo ■ unknow ■ perinatal

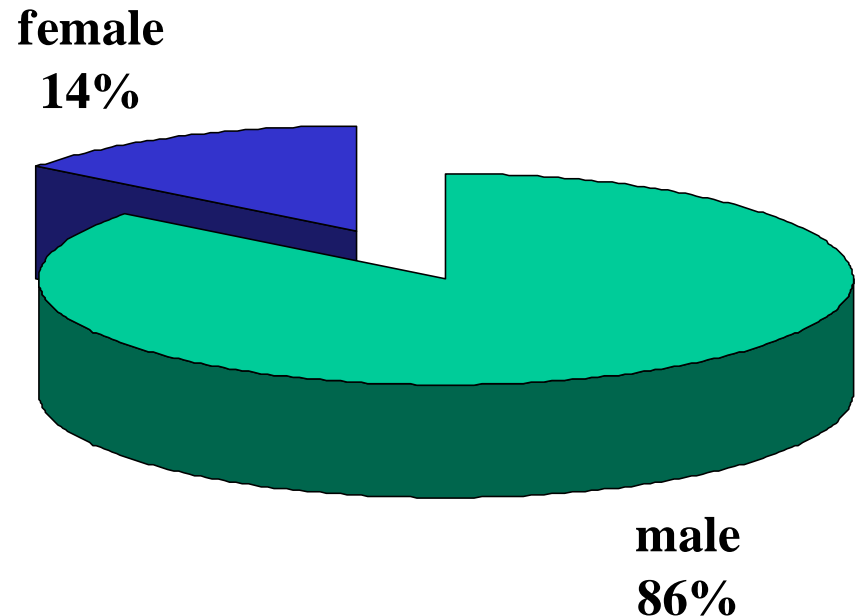
HIV infection by gender in Lithuania

2008 01 01



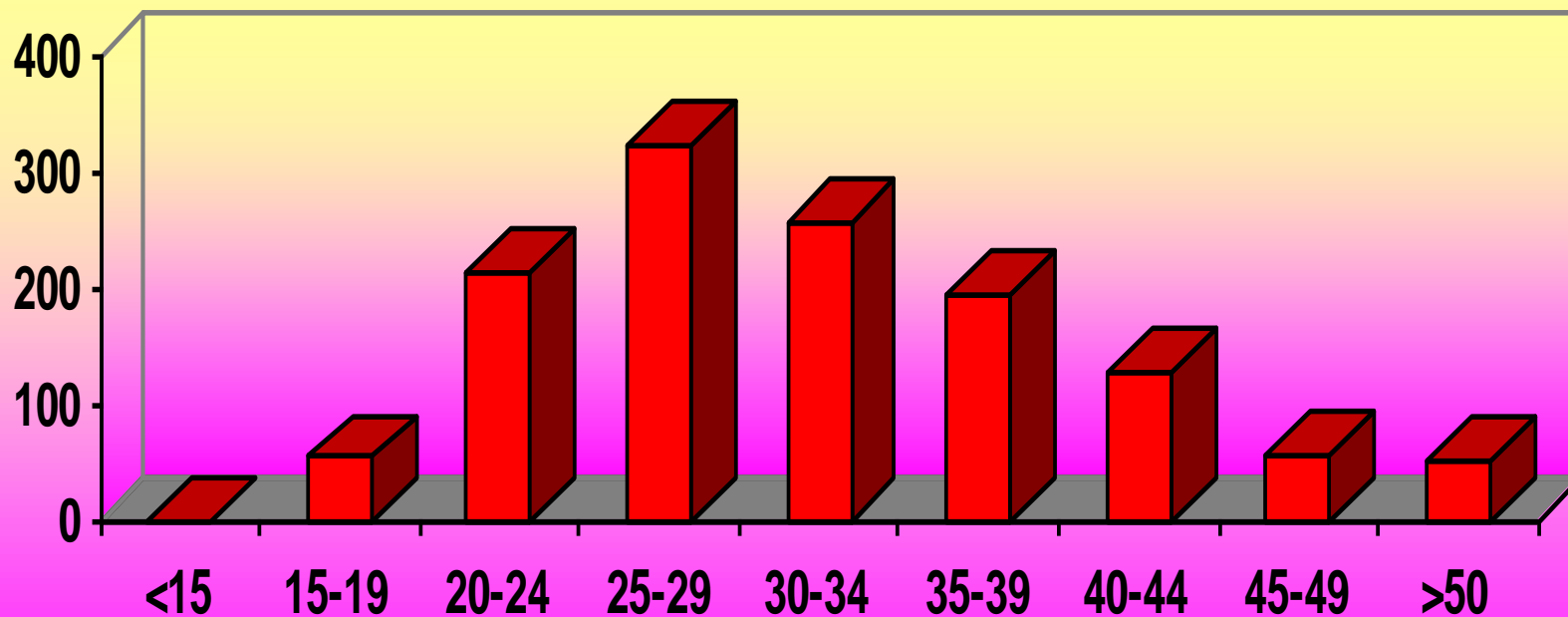
**1306 cumulative HIV
diagnosed**

188 (14 %) female
1118 (86 %) male



HIV cases by age in Lithuania

2008 01 01



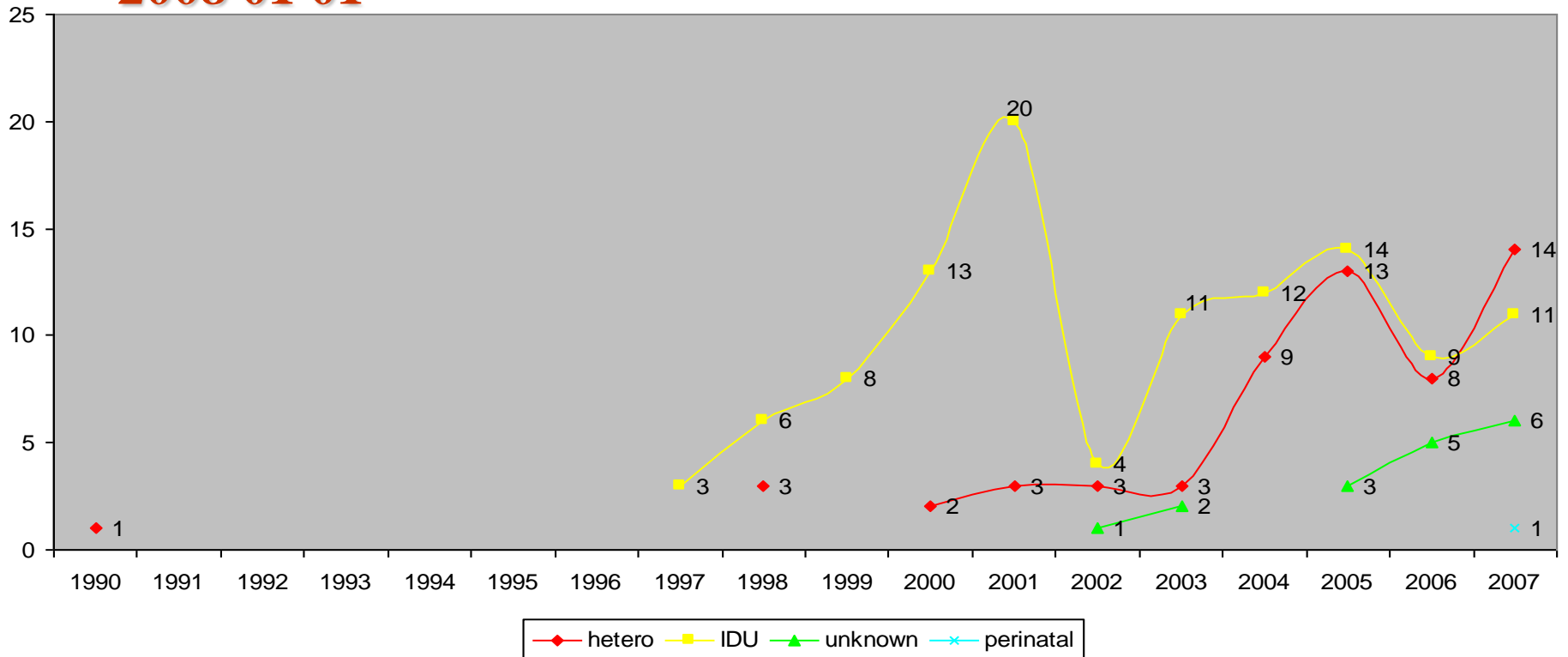
Source: Lithuanian AIDS Center 2008

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Female HIV cases by transmission group and year in Lithuania



2008 01 01



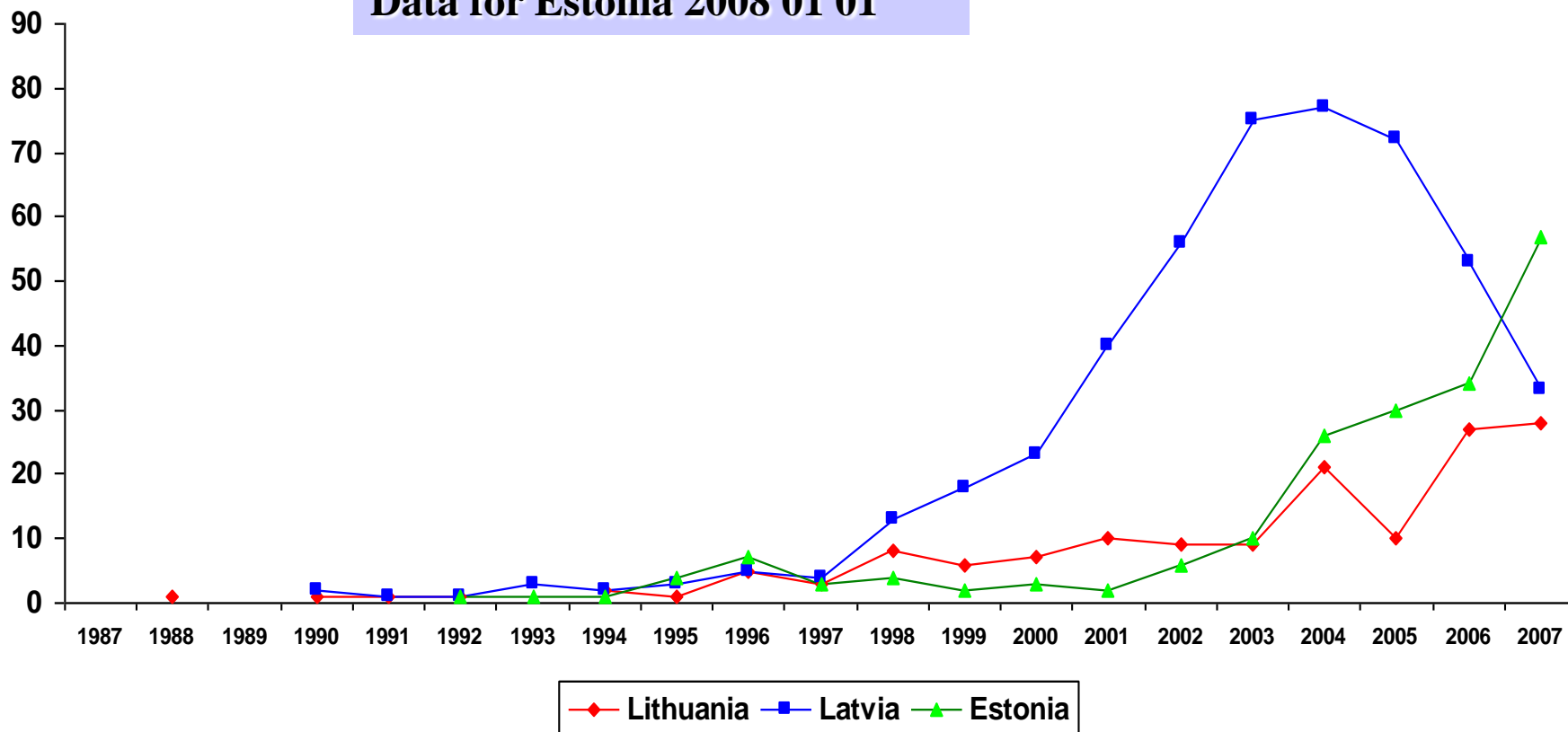
Source: Lithuanian AIDS Center 2008

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AIDS tendencies in Lithuania, Latvia, Estonia



Data for Lithuania 2008 01 01
Data for Latvia 2008 01 01
Data for Estonia 2008 01 01



Source: Data of National AIDS Center 2008

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AIDS in Lithuania

2008 01 01

(Population 3,4mln.)



Total AIDS cases 151

56 HIV diagnosed on AIDS stage

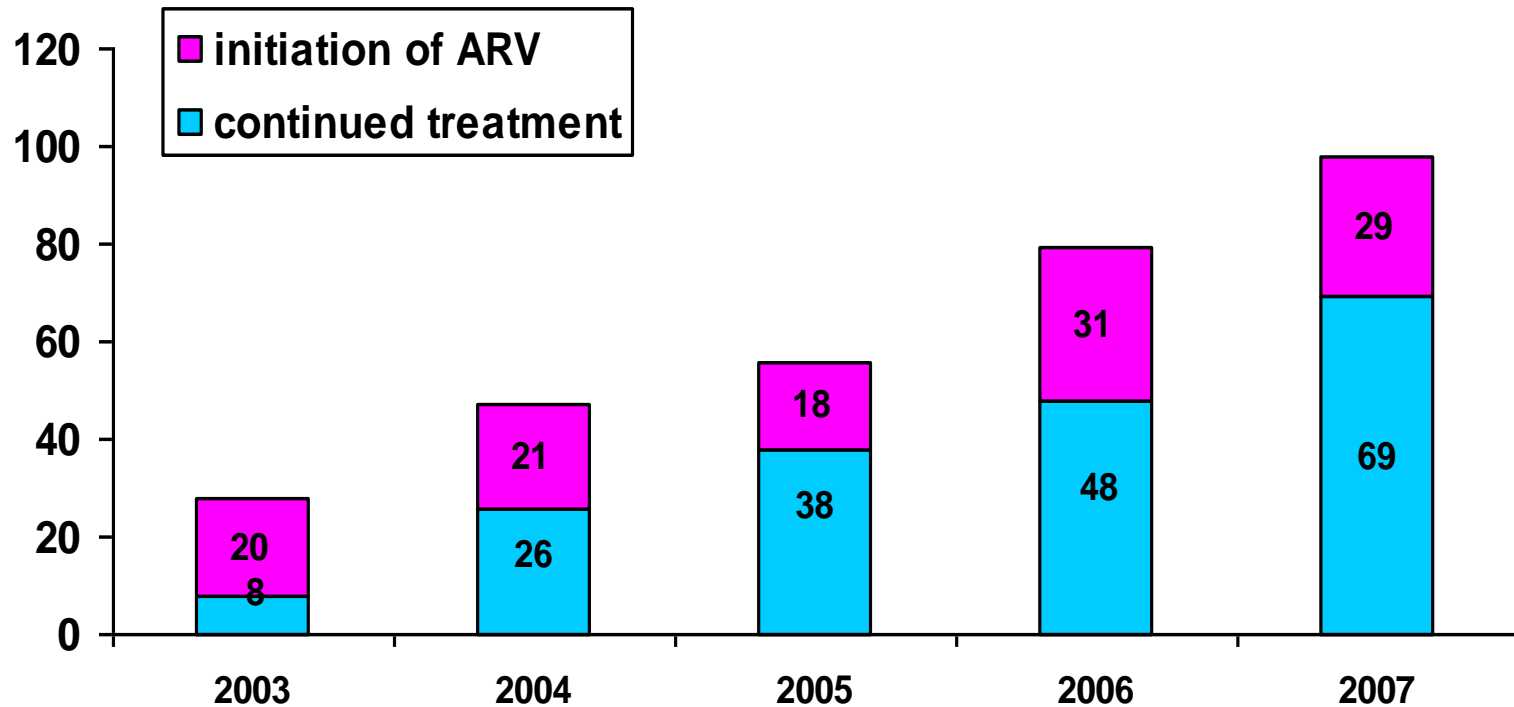
Total death – 132

from AIDS – 57

79 on HAART

45 in Lithuanian AIDS center

Number of **HIV** infected who have continued treatment and initiation treatment of ARV in Lithuania

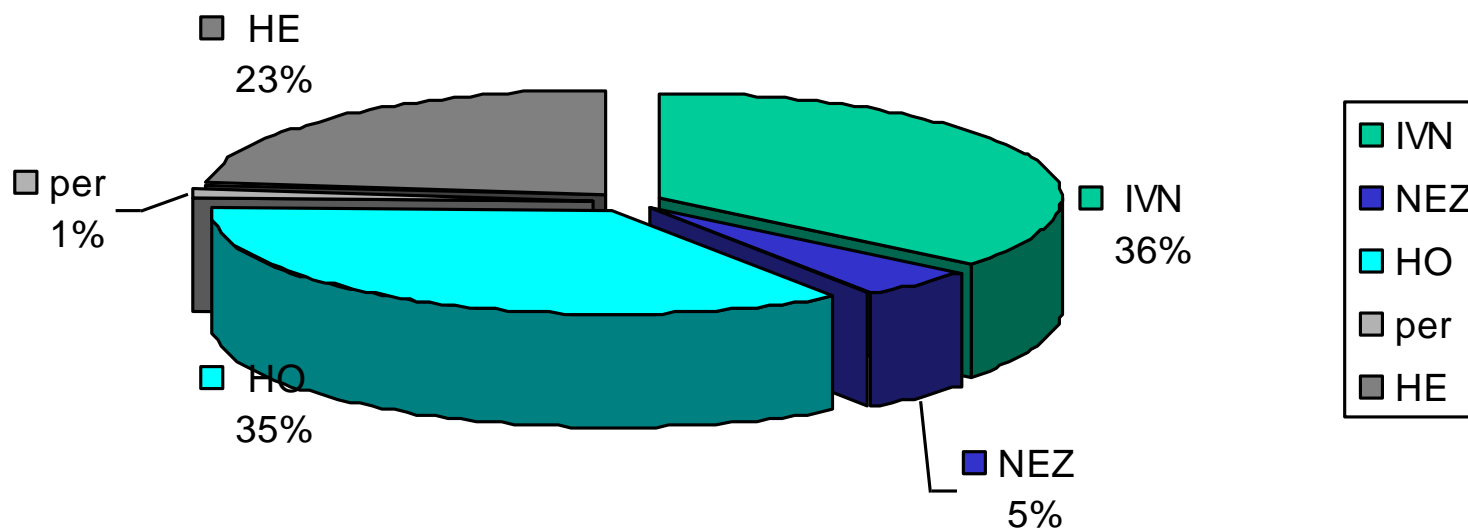


ARV treatment sites in 2007



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- **98 patients were on ARV treatment in Lithuania in 2007**
 - **Lithuanian AIDS centre – 50 patients**
 - **Vilnius University TB and infectious diseases hospital – 18 patients;**
 - **Kaunas – 9 patients;**
 - **Klaipėda – 17 patients;**
 - **Šiauliai – 11 patients.**

Patients (n=98) on ARV treatment in 2007 according HIV transmission modes



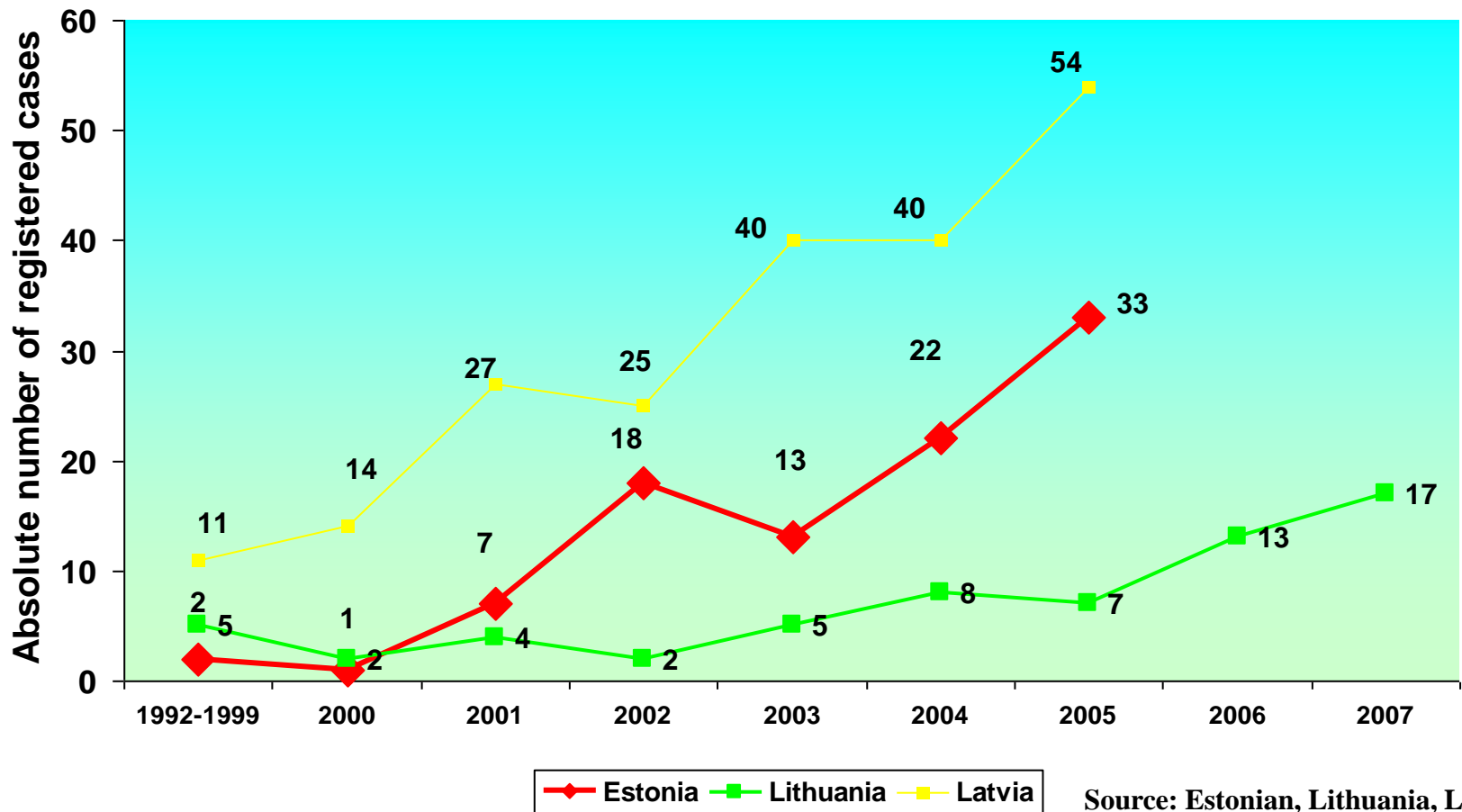
IDU and HAART



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- Total 35 (35,7 %) IDUs (of 98 on HAART) were received ART in 2007;
 - 23 (65,7 %) of them still had received HAART at the end of year;
 - 12 (34,3 %) had stopped HAART. Reasons:
 - 7 – lost follow-up;
 - 5 – death;
 - 7 were receiving ST (methadone).

Diagnozuoti ŽIV atvejai tarp TB pacientų Lietuvoje, Latvijoje ir Estijoje 1992-2007

(absoliučiais skaičiais)



Source: Estonian, Lithuania, Latvia
TB Registry

HIV epidemiological surveillance in patients with TB is strengthened



- **In 2007 totally 1433 patients with TB were tested on HIV**
- **5 new HIV infection cases identified (prevalence 0.35%)**

Active TB screening in people with HIV is implemented



- All patients with HIV who apply for HIV infection care are examined on tuberculosis symptoms, chest X-rays are performed
- In 2007 totally 18 cases of active TB in people with HIV were identified

HIV Epidemiological situation in Lithuania

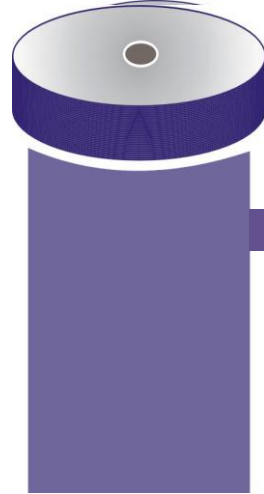


- 1306 HIV cases Up to 31st December 2007
- 1200 HIV cases Up to 31st December 2006
 - **987 (76%) IDU**
 - **928 (77%) IDU**
- 106 new HIV cases during 2007
- 100 new HIV cases during 2006
 - **28 AIDS cases during 2007**
 - **27 AIDS cases during 2006**

HIV/AIDS in Lithuania end of 2007

3,4 mln. estimated population

3 649 estimated
living with HIV+



106 - New HIV+ diagnosed in 2007
HIV Incidence - 2.74

1306 - Cumulative HIV+ end of 2007
HIV Prevalence - 38



28 - New AIDS cases in 2007
AIDS Incidence - 0.8

151- Cumulative AIDS end of 2007
AIDS Prevalence - 2.8



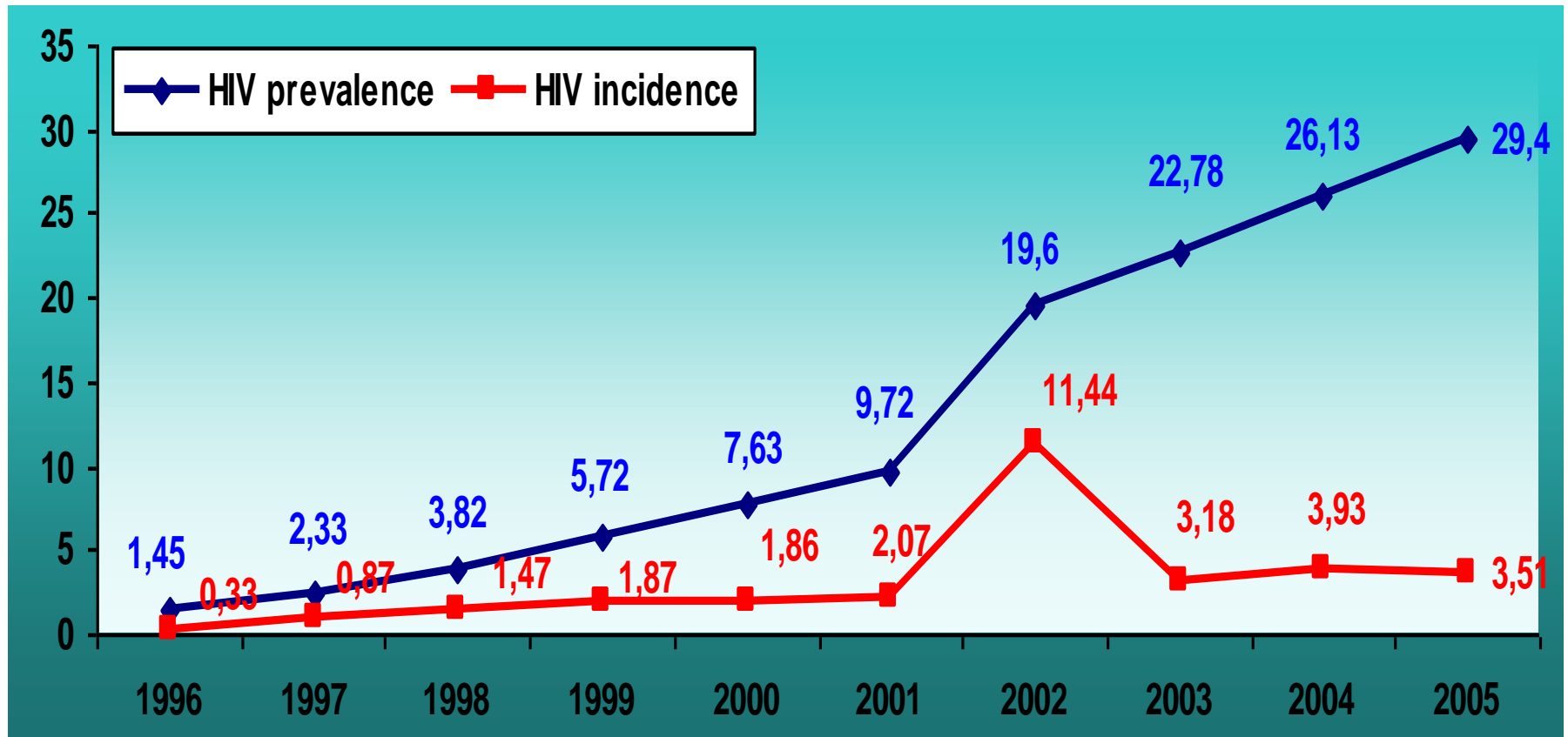
19- HIV deaths in 2007 (from them 11 from AIDS)

132 - Cumulative AIDS deaths end of 2007
(from them 58 from AIDS)



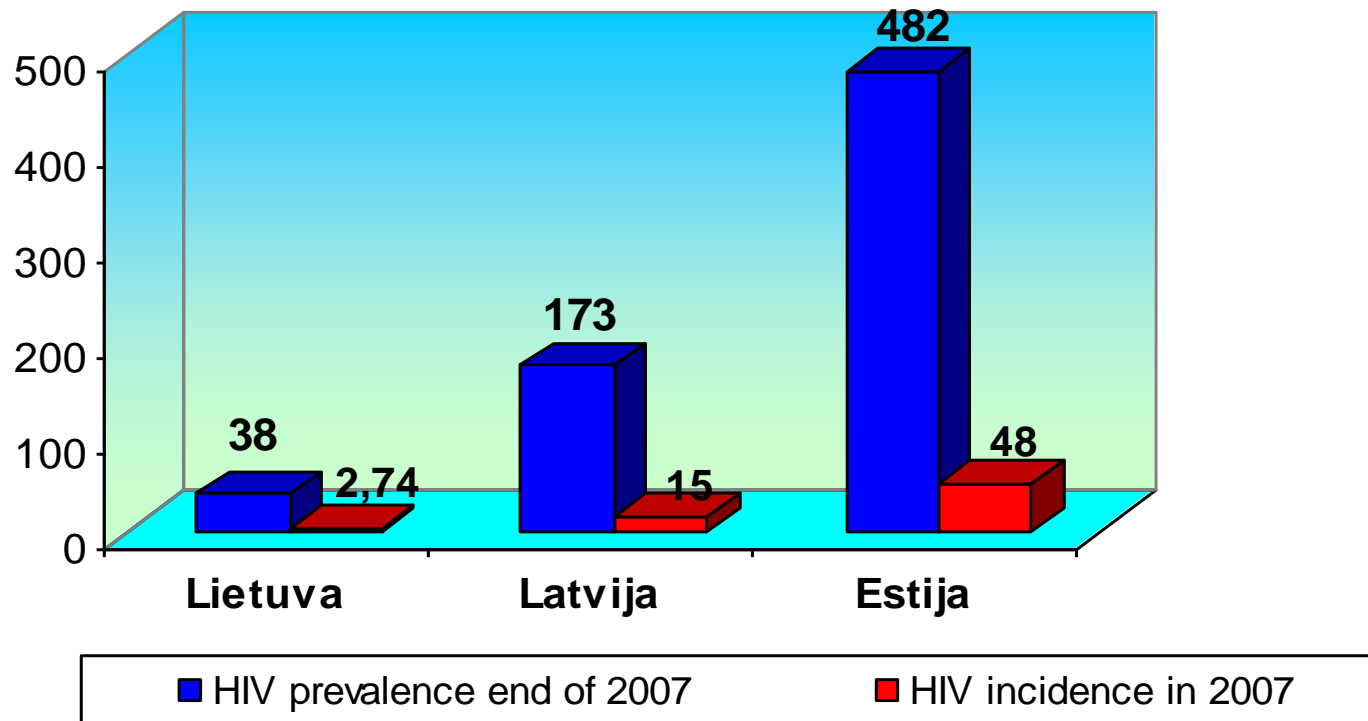
Incidence and
Prevalence
for 100000
population

HIV prevalence and incidence per 100 000 population (1996-2004)



HIV prevalence and incidence in Baltic countries

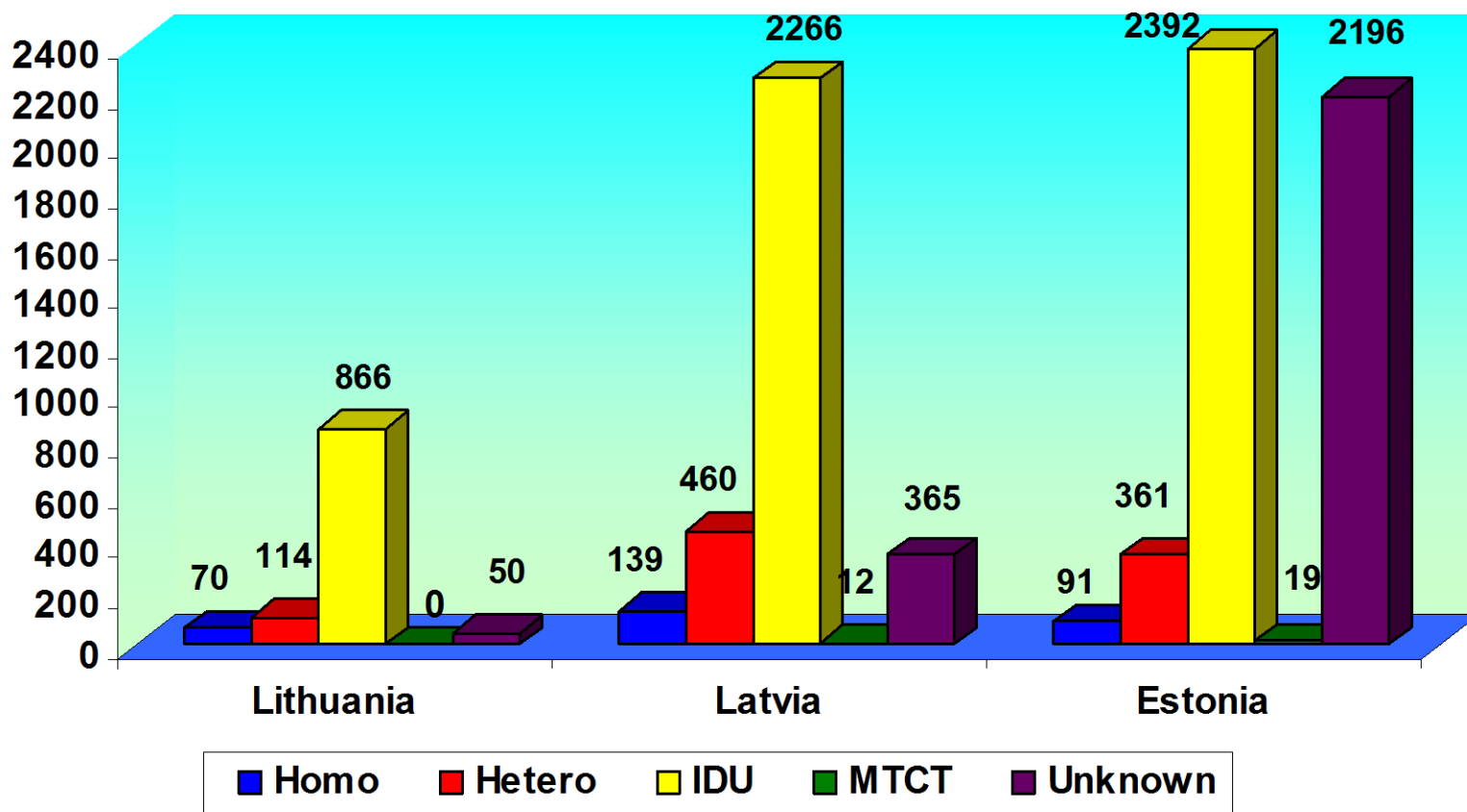
(for 100 000 population)



Preliminary data

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HIV infections by country and transmission category (absolute number)



Source: EuroHIV, Lithuanian AIDS Centre, Latvian AIDS centre 2006

HIV surveillance system and types of surveys among high risk groups in Lithuania

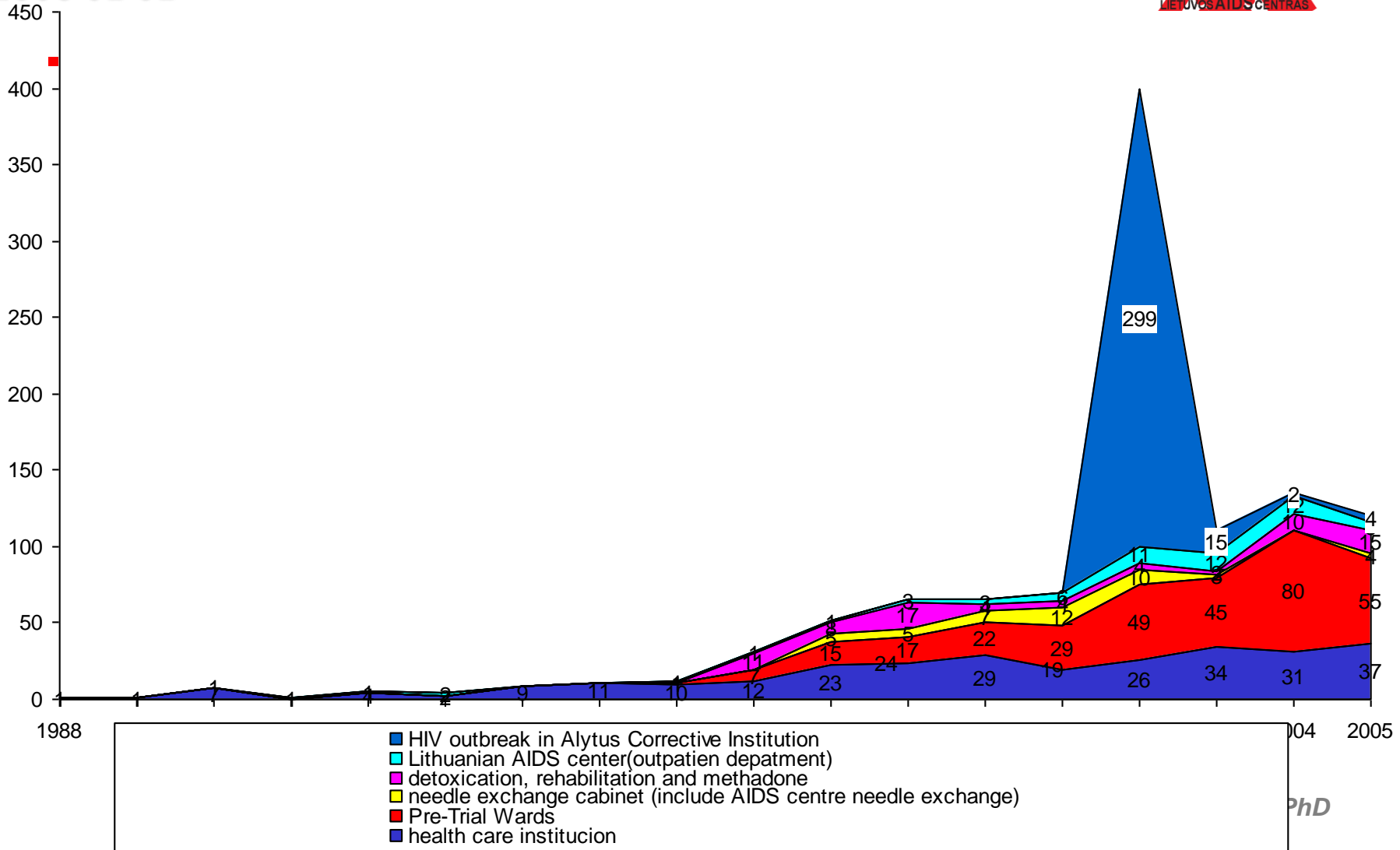


- **Sentinel surveillance of pregnant women**
- **Mandatory testing of blood and organ donors**
- **VCT for prisoners (entering and leaving prison)**
- **VCT with epidemiological and clinical indicators**
 - High risk groups, all new TB patients etc.
- **Cross-section survey in high risk groups (BSS plus BM)**
 - IDUs, SW, MSM

HIV infections newly diagnosed institution in Lithuania



2006 01 01



Preliminary data of Vilnius IDU study

Nacionalinė politika dvejopos ŽIV ir tuberkuliozės infekcijų srityje

- 2008
- RDS, supported by EU
- N=400

8,5 %

HIV

94 %

HCV

8%

TPHA



Expanding Network for Coordinated
and Comprehensive Actions
on HIV/AIDS Prevention among
IDUs and Bridging Population





Expanding Network for Coordinated
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HIV and HCV prevalence



IDU	Tallinn, Estonia		Riga, Latvia		Vilnius, Lithuania	
	n	%	n	%	n	%
HIV-positive	192	54.8	92	22.6	32	8.0
HCV-positive	327	93.4	302	74.2	379	94.8

RDS study 2008, supported by EU

Saulius Čaplinskas, MD, PhD

Major characteristics of HIV epidemic in Lithuania



- **Concentrated epidemic:**
 - Prevalence 38 / 100 000; Incidence 2,74 / 100 000 in 2007;
 - Predominant mode of transmission – men (86%), IDU (76%); average age – 32; F/M = 1/6
 - Prevalence in IDUs: 8,5% HIV; 94-98% HCV; 7-10% HBS Ag
- **64% at least one time have been incarcerated in prison**
- **Mainly concentrated in seeport Klaipeda and capital Vilnius**
- **4% diagnosed at late stage of infection,**
- **6% unknown mode of transmission**
- **Increasing number of HIV positive women (60% infected using drugs),**
 - **1 case of vertical transmission**

Links between drug use and HIV in Lithuania



- **80% HIV cases in IDUs**
- **Majority of people with HIV have long history of drug use**
 - **5 years at average (there are cases of 10-20 years use)**
- **98% of IDUs with HIV are also infected with VHC**
- **This prove especially risky drug injection**
 - **Equipment sharing, etc.**
- **20-40% of IDUs have mental problems**
- **High risk for spread of communicable diseases including HIV, which to be reduced**

One patient – many illnesses, lot of problems

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