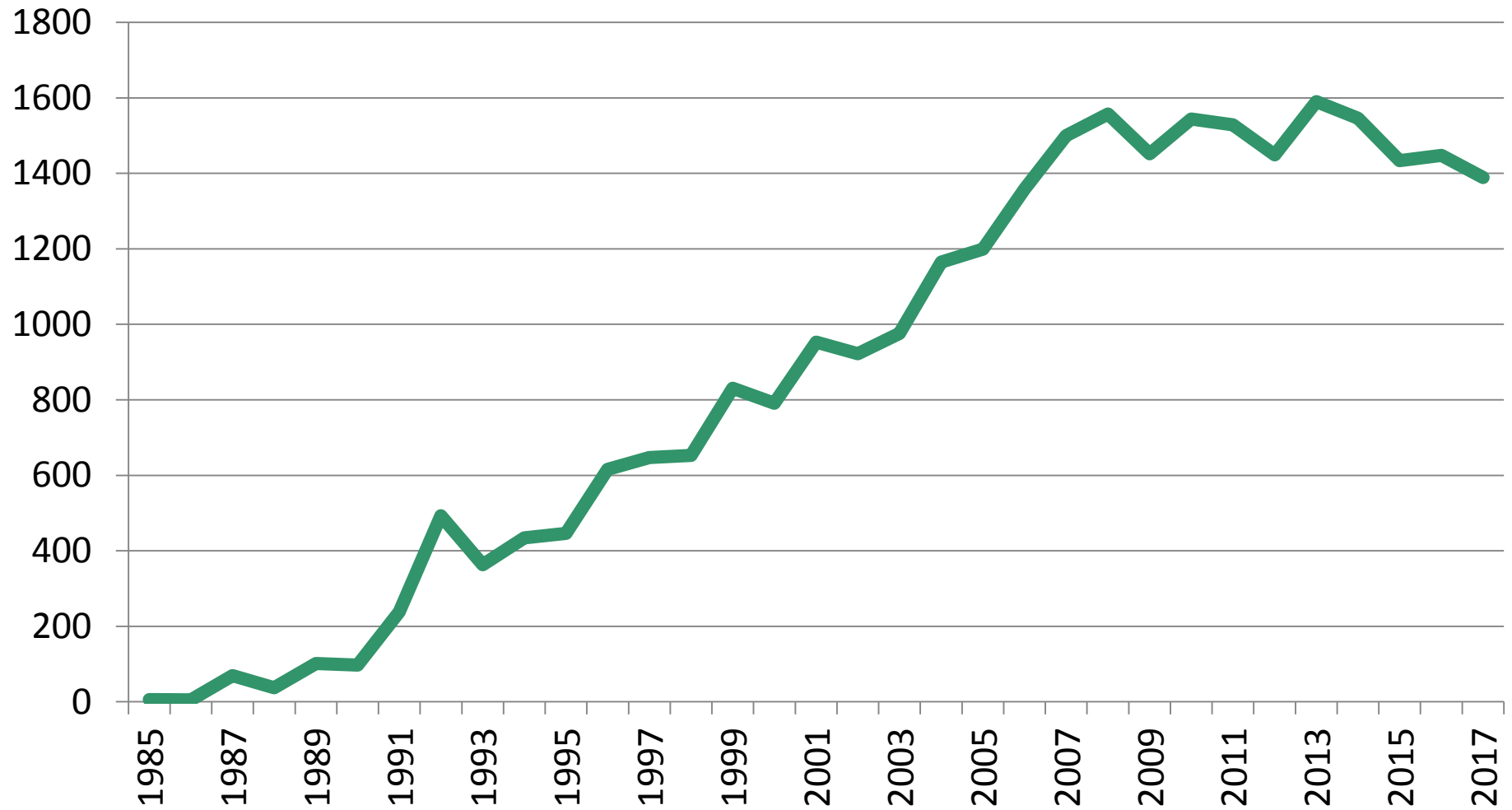


# **Current Situation and Measures against HIV/AIDS in Tokyo**

**Akifumi Imamura, MD.**

*Tokyo Metropolitan  
Cancer and Infectious Diseases Center  
Komagome Hospital*

# Trend of newly registered HIV cases in Japan



## HIV Prevalence by Transmission Category (2017)

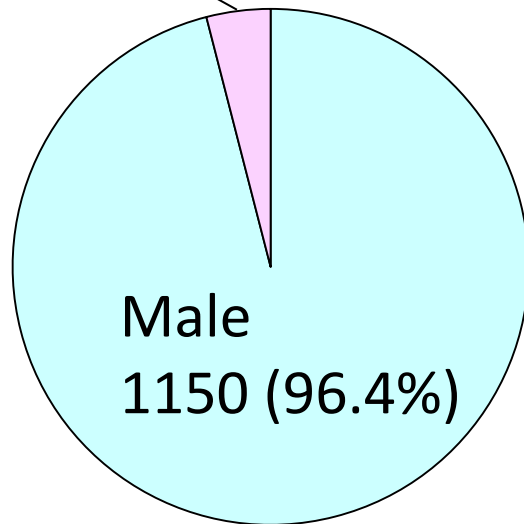
**Number of HIV cases: 1389**

<b>Transmission Category</b>	<b>Cases (%)</b>
Heterosexual	248 (17.9%)
<b>Male-to-male sexual contact</b>	<b>935 (67.3%)</b>
Injection Drug Use	4 (0.3%)
Mother to Child Transmission	4 (0.3%)
Others	44 (3.1%)
Unknown	154 (11.1%)

# HIV Prevalence by nationality, gender (2017)

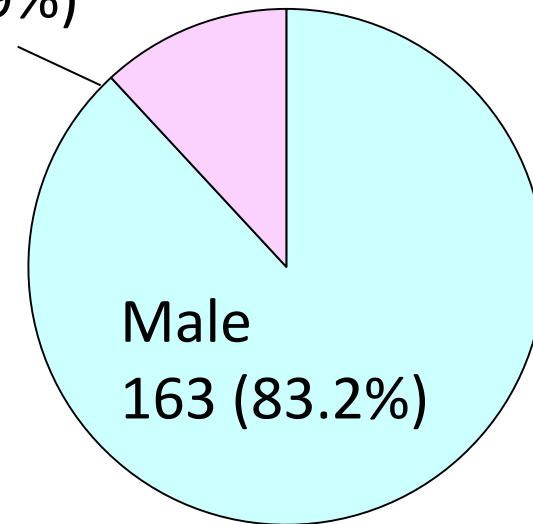
**Japanese: 1193**

Female  
43 (3.6%)



**Non-Japanese: 196**

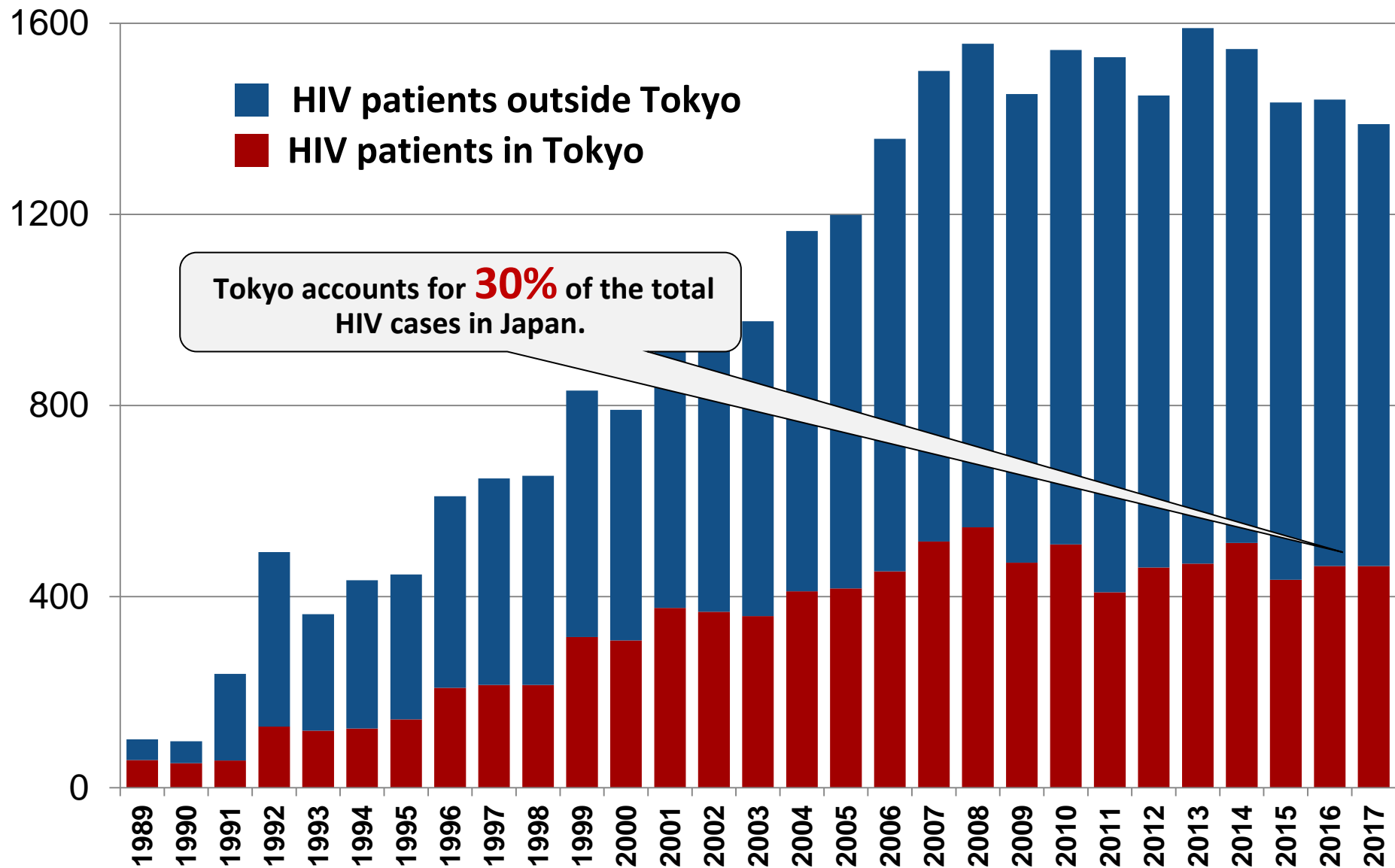
Female  
33 (16.9%)



The number of HIV/AIDS infection among Japanese has still been increasing mainly among MSM.

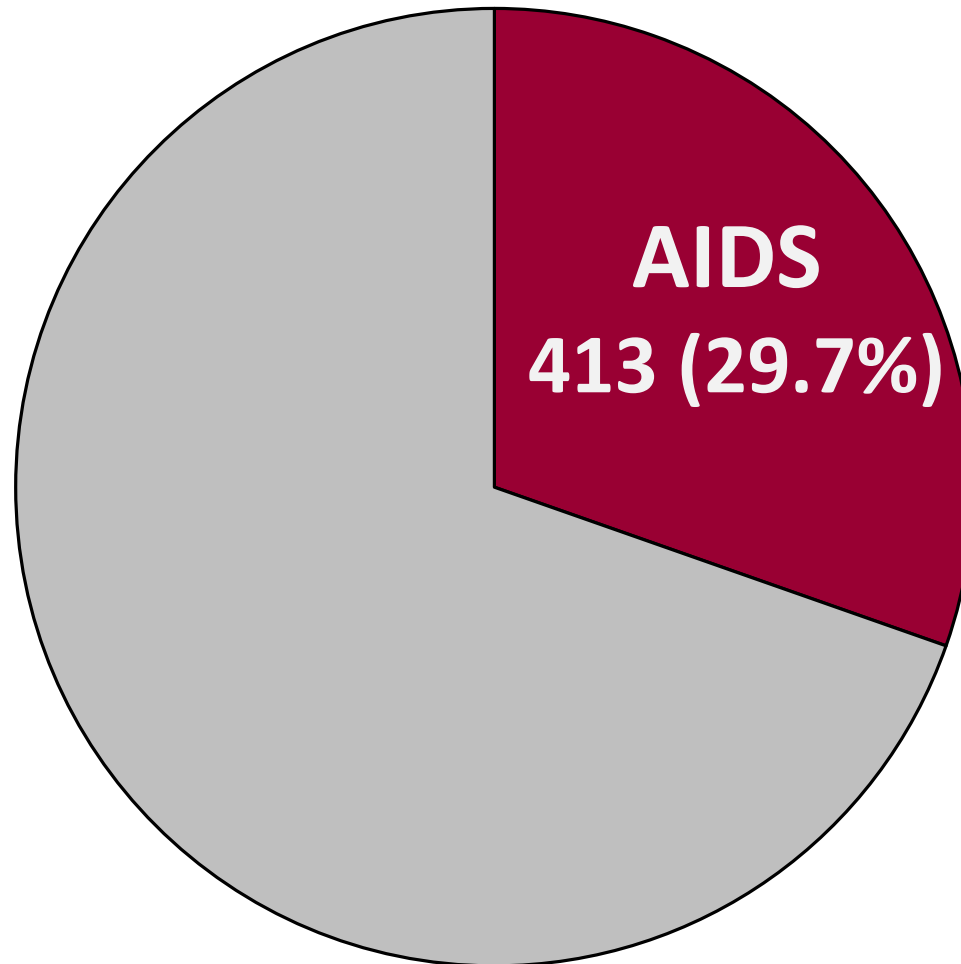
**MSM** = men who have sex with men

# HIV patients in Tokyo and Japan



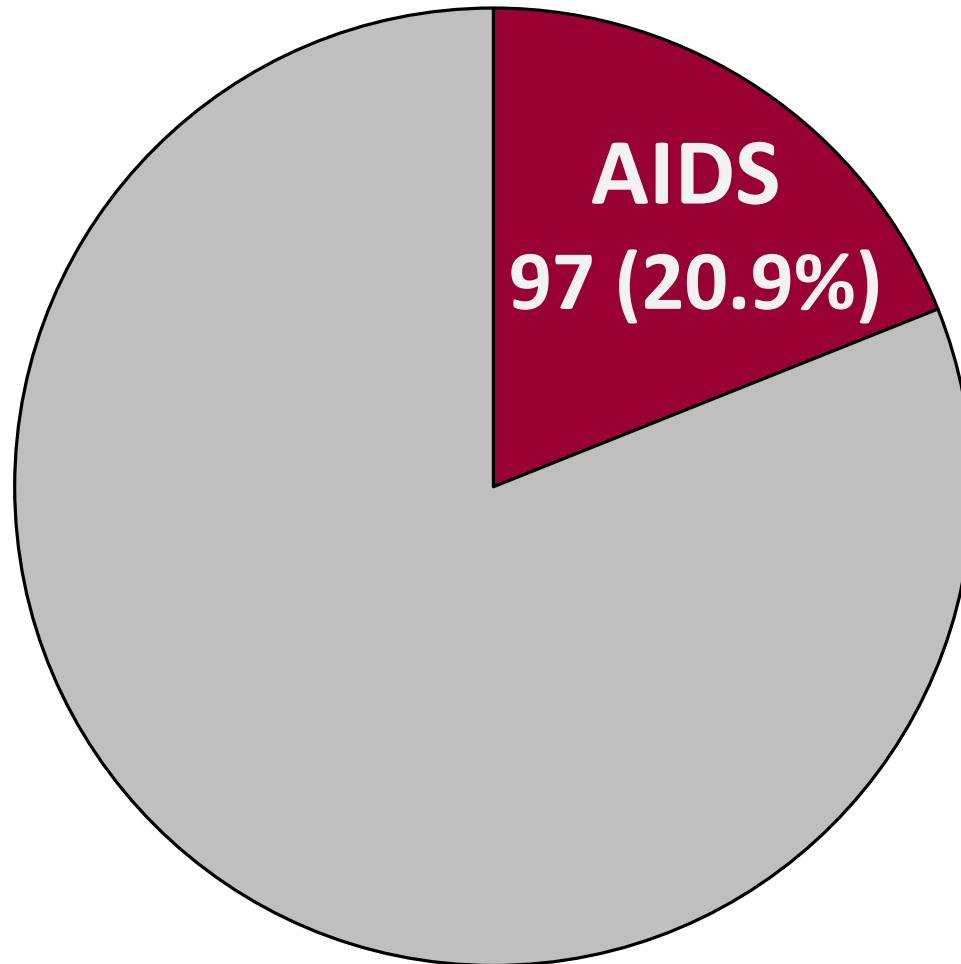
# Newly registered AIDS cases in Japan (2017)

**Number of HIV cases: 1389**



# Newly registered AIDS cases in Tokyo (2017)

**Number of HIV cases: 464**





Test & Treat

## HIV testing facility in Tokyo

### Testing and Counseling facility (Free of charge, anonymous)

- Public Health Centers
- Minami-Shinjuku Testing and Counseling Office

### Hospitals and Clinics

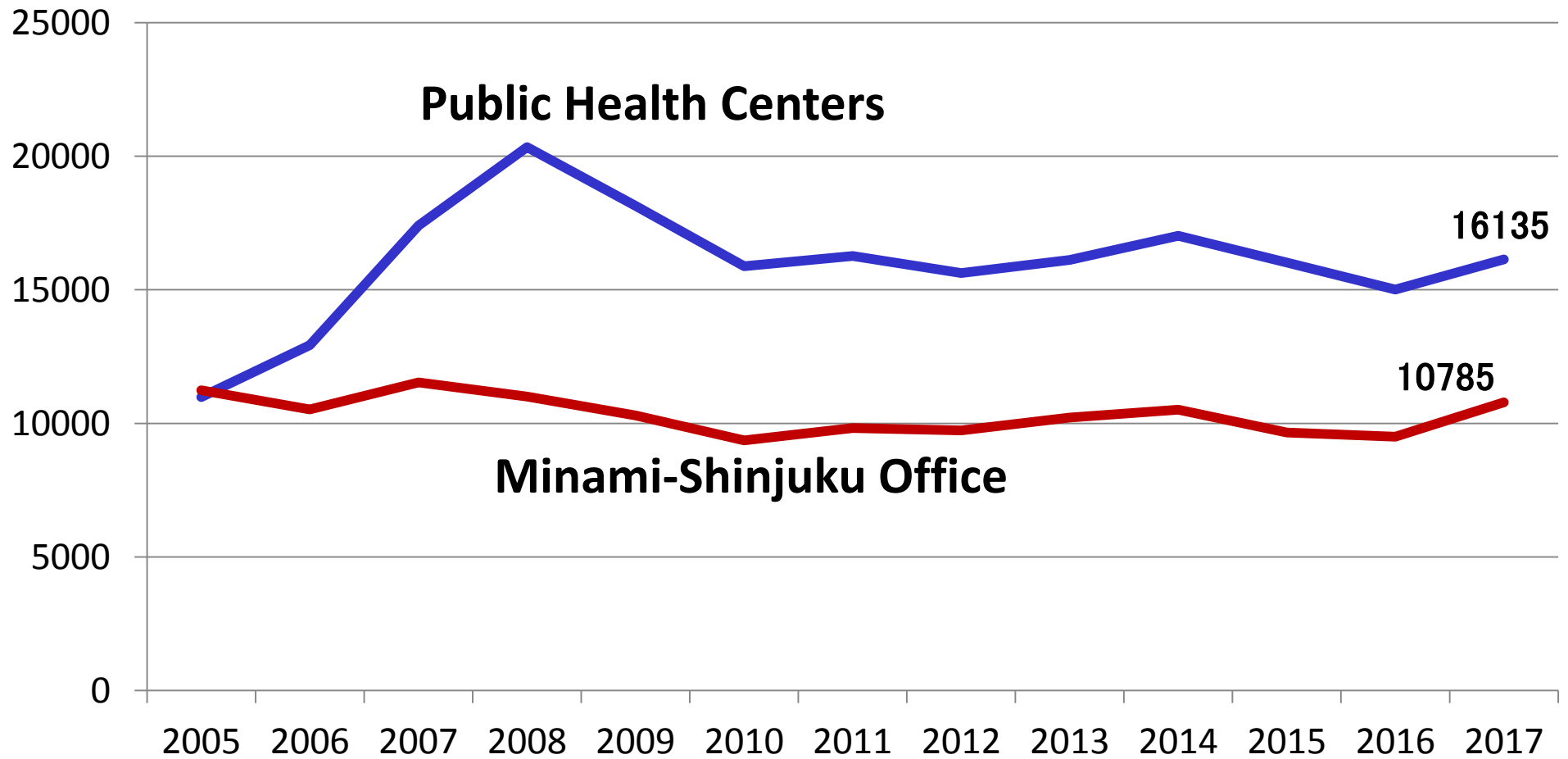
- Core Hospitals: 44 Hospitals
- Other Medical Facilities: Hospitals and Clinics

# Minami-Shinjuku Testing and Counseling Office

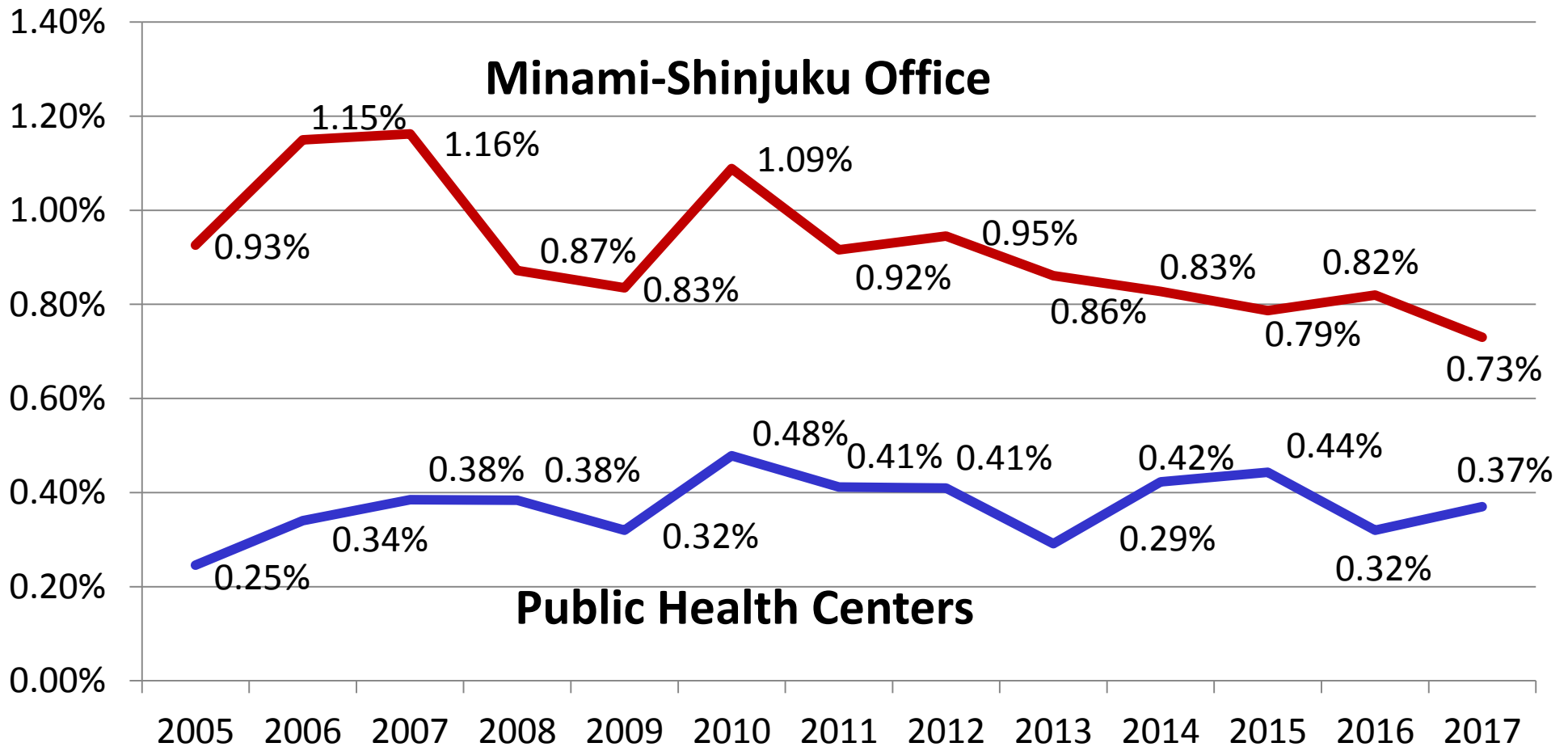


- 3 min. walk from South Exit of Shinjuku Station
- Testing Hours  
Mon – Fri: 15:30 – 19:00 Sat, Sun: 13:00 – 16:30
- Free of charge, anonymous
- Reservations possible from mobile phone website

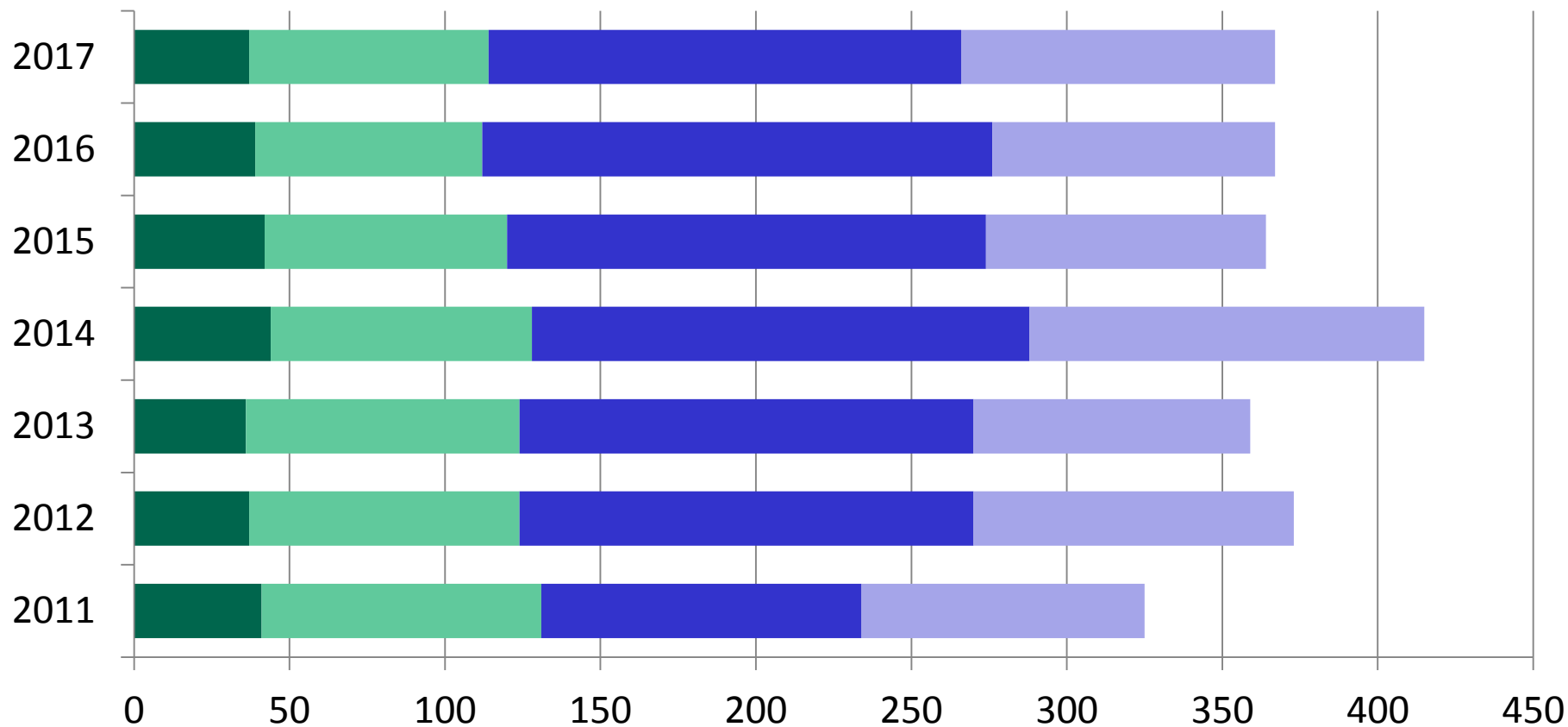
# Number of tests at public health centers in Tokyo



# HIV positive rate at public health centers in Tokyo



# Reported cases according to medical facility in Tokyo (2017)



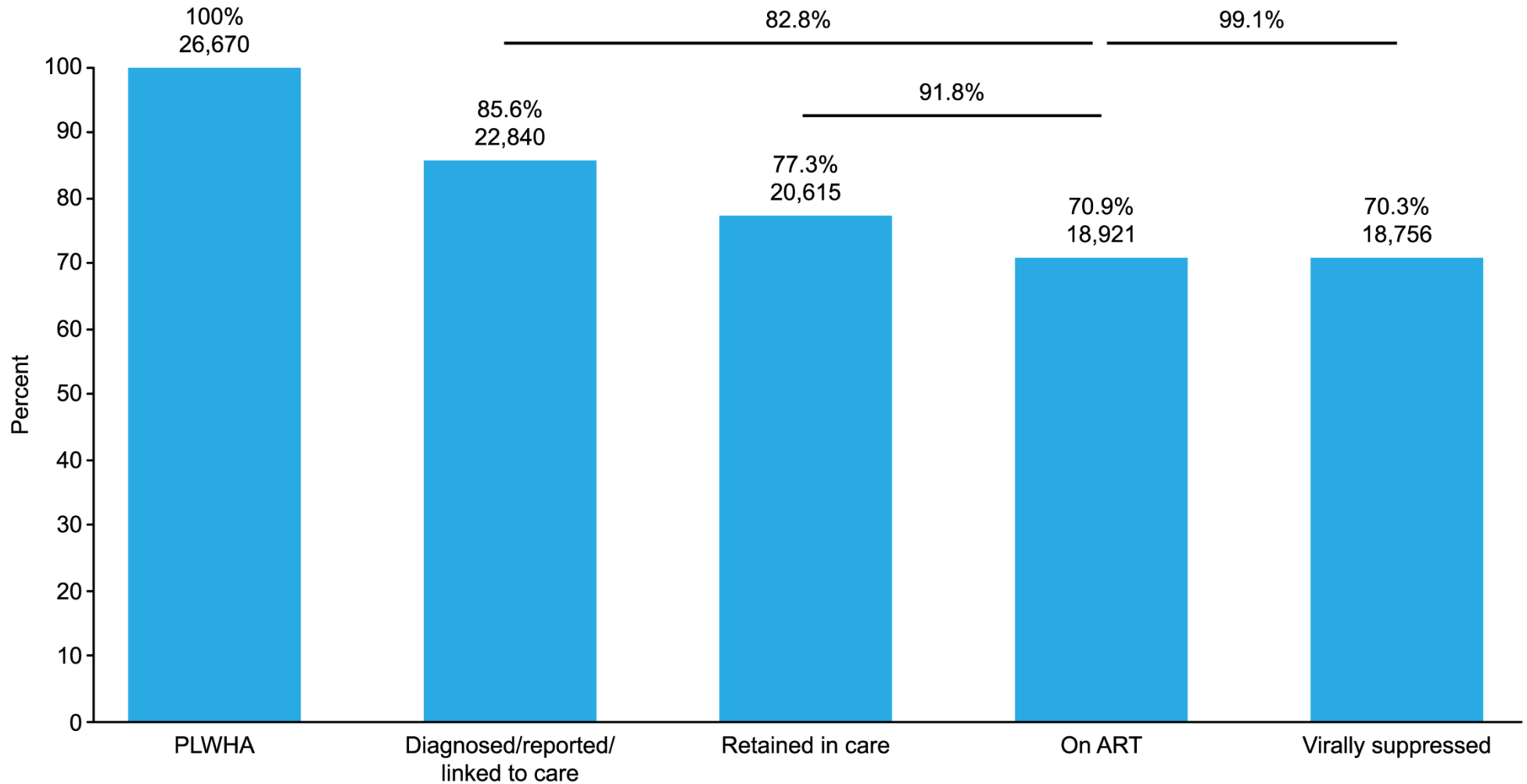
**Public Health Centers**   **Minami-Shinjuku Office**   **Core Hospitals**   **Other Medical Facilities**

# “Cascade” Strategy

The goal is  
to achieve **90—90—90**

- **Diagnostic rate of all patients** 90%
- **Regular visit at HIV clinic** 90%
- **Effective treatment** 90%

# HIV Care Cascade in Japan



PLWHA: People Living with HIV/AIDS



# HIV Care Cascade in Japan

$$\frac{\text{Diagnosed}}{\text{PLWHA (26,670)}} = 85.6\%$$

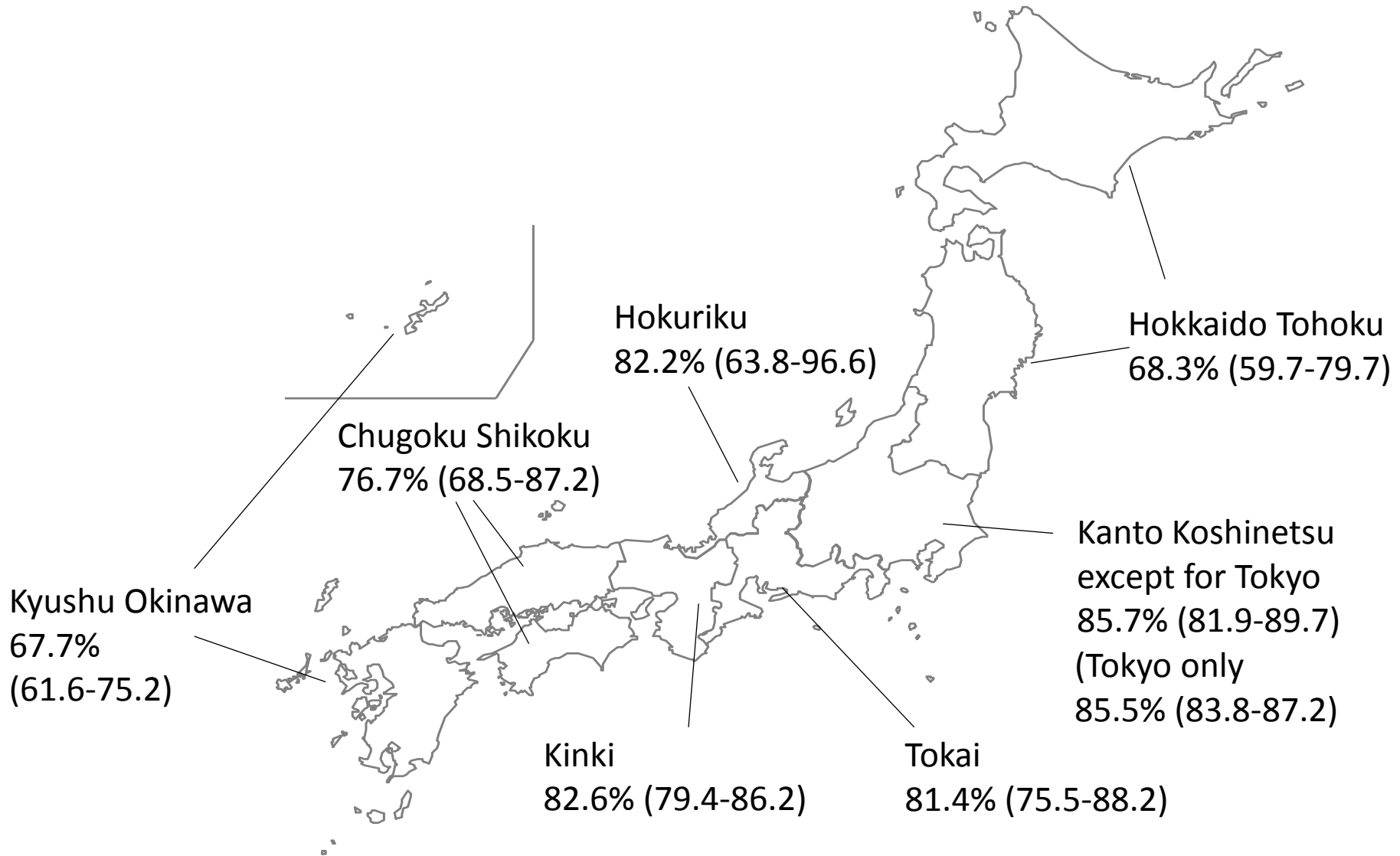
$$\frac{\text{Treated}}{\text{Diagnosed}} = 82.8\%$$

$$\frac{\text{Virally suppressed}}{\text{Treated}} = 99.1\%$$

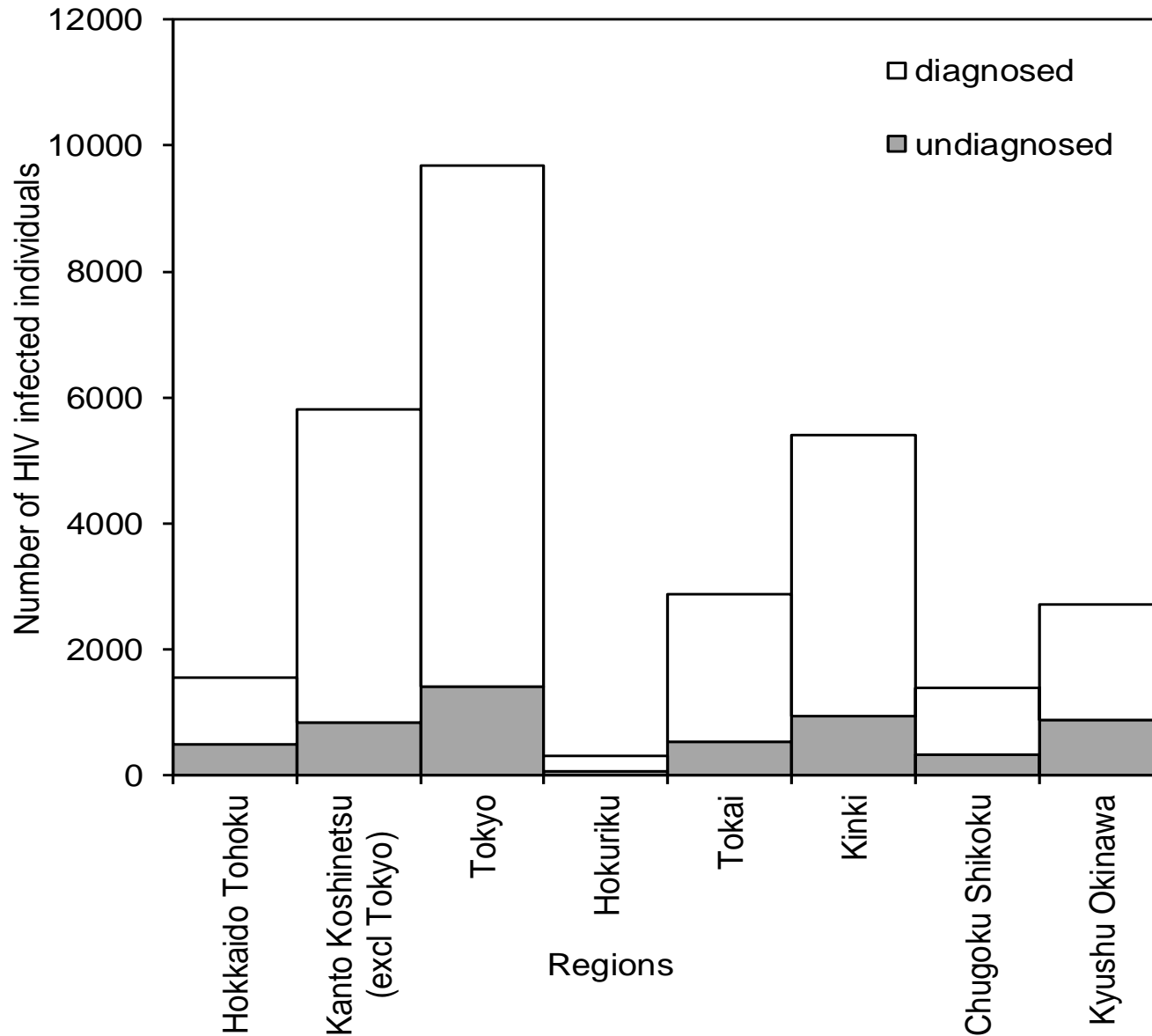


**360** AIDS treatment base hospitals

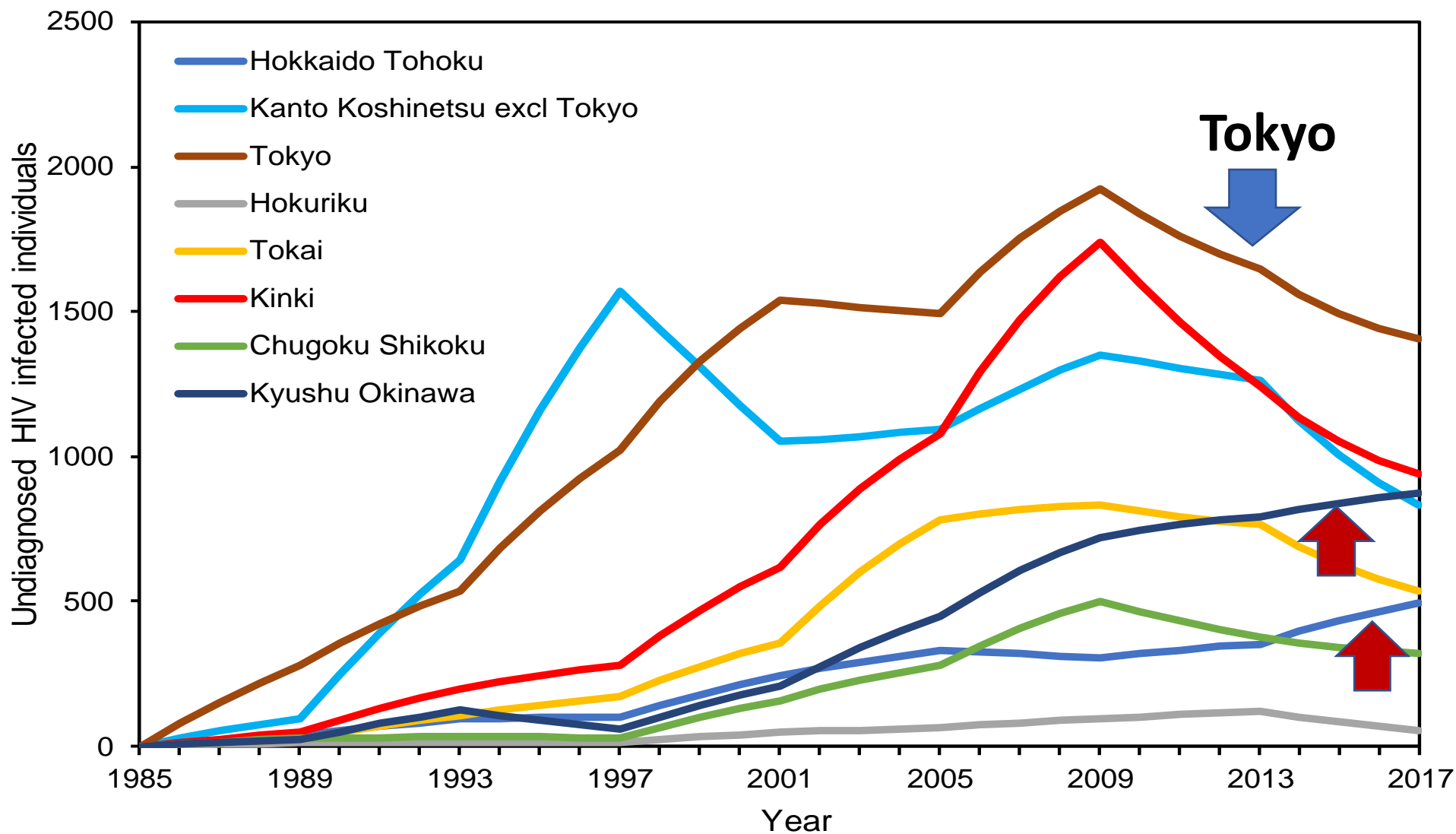
# Diagnosed rate (as of end 2017)



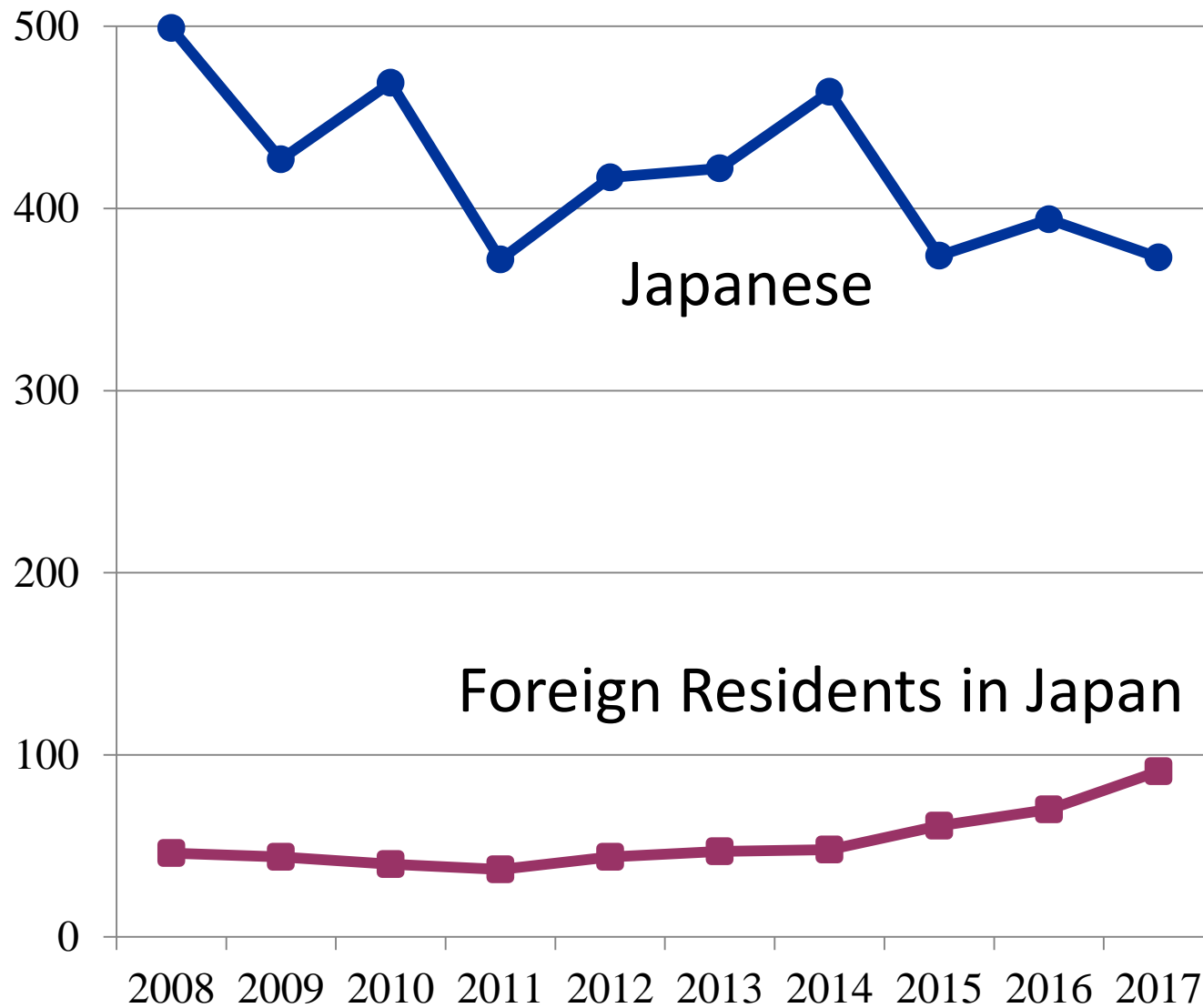
# Estimated prevalence (as of end 2017)



# Temporal spread of HIV-infected



# Trend of newly registered HIV cases in Tokyo



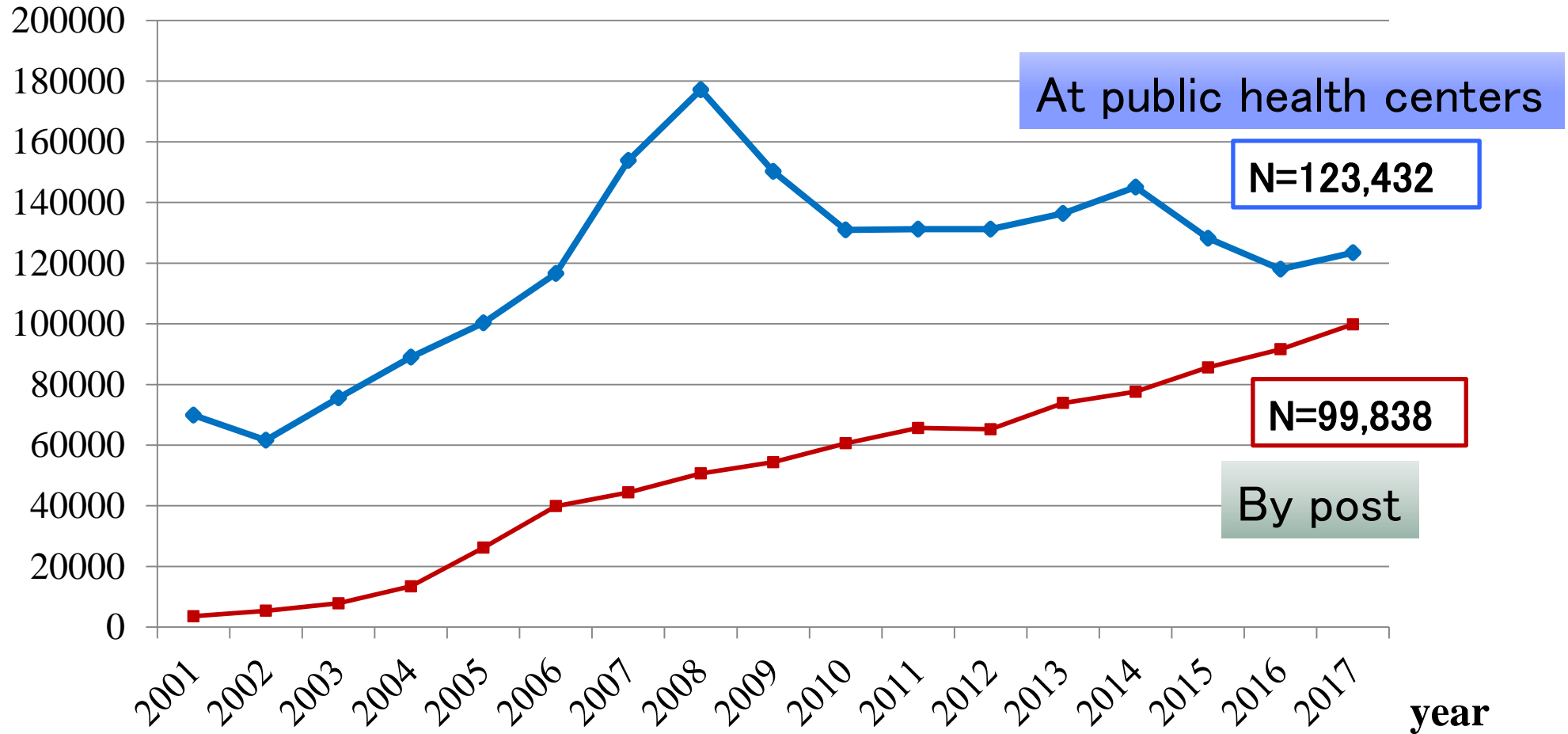
# Challenges of recommendation for taking HIV test

- MSM living in rural areas
- MSM in middle and old ages
- Foreign residents in Japan

**MSM: men who have sex with men**

# Trend of the number of HIV testing by post and at public health centers

Number of testing





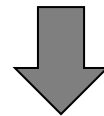
# HIV testing by post

- One of the HIV–self testing.
- All procedures from application to checking the result are available at website.
- This service is offered by several companies.
- HIV testing by post is not authorized by the Ministry of Health and Welfare, Japan.

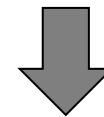
# HIV testing by post



Application of the HIV testing through website and get the testing kits delivered.



Taking a blood sample by yourself and return it anonymously.



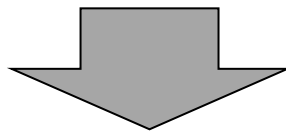
Checking the result at website.

# Problems of HIV testing by post

- Differences in correspondence or support by companies.
- Accuracy control is not mandatory.
- Possibility of false negative.
- Mass examination for sex workers without privacy.

## PrEP (Pre-Exposure Prophylaxis) in Japan

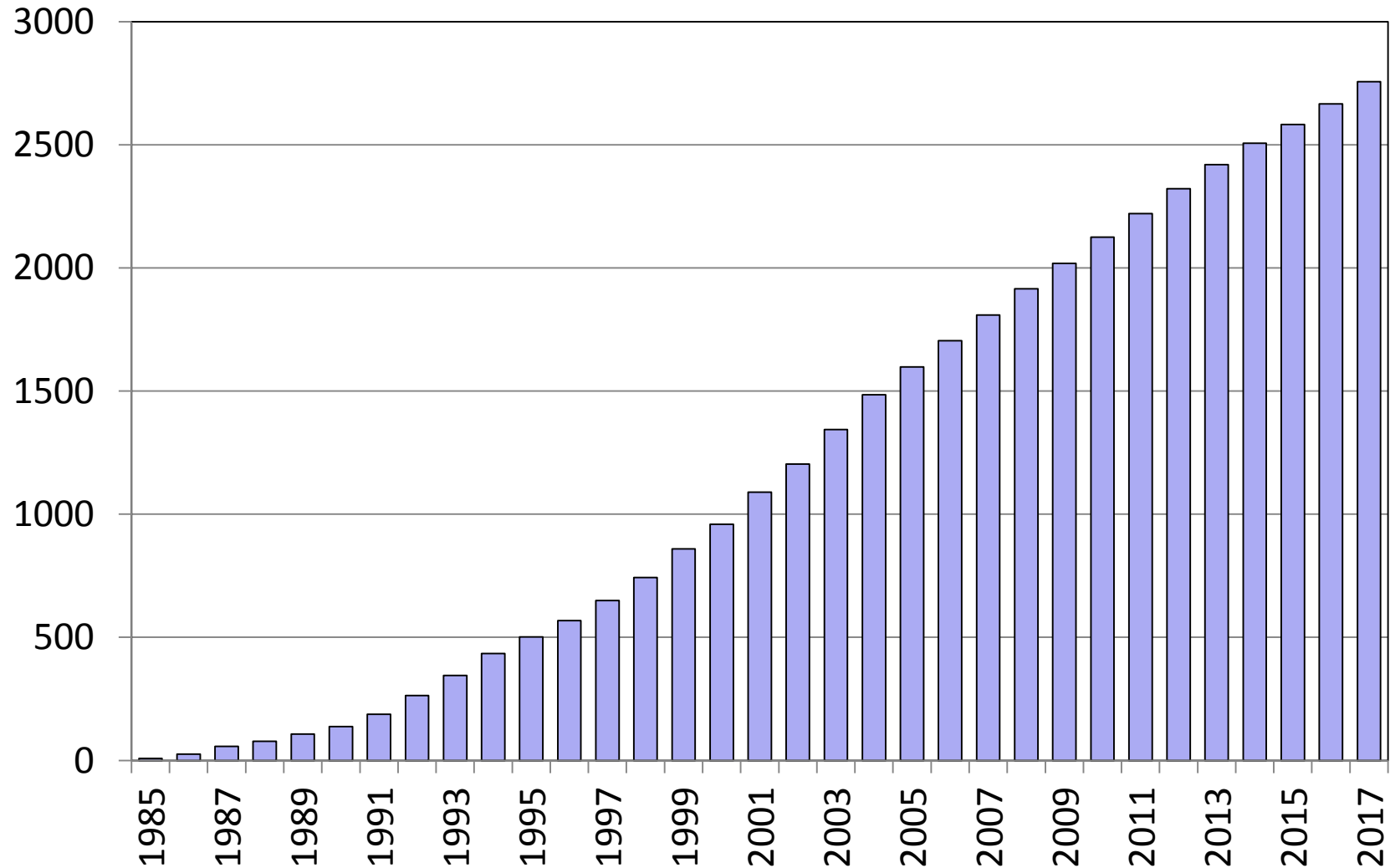
- Trials recently started as research.
- Being studied for drug approval for PrEP
- High drug prices are a problem in Japan



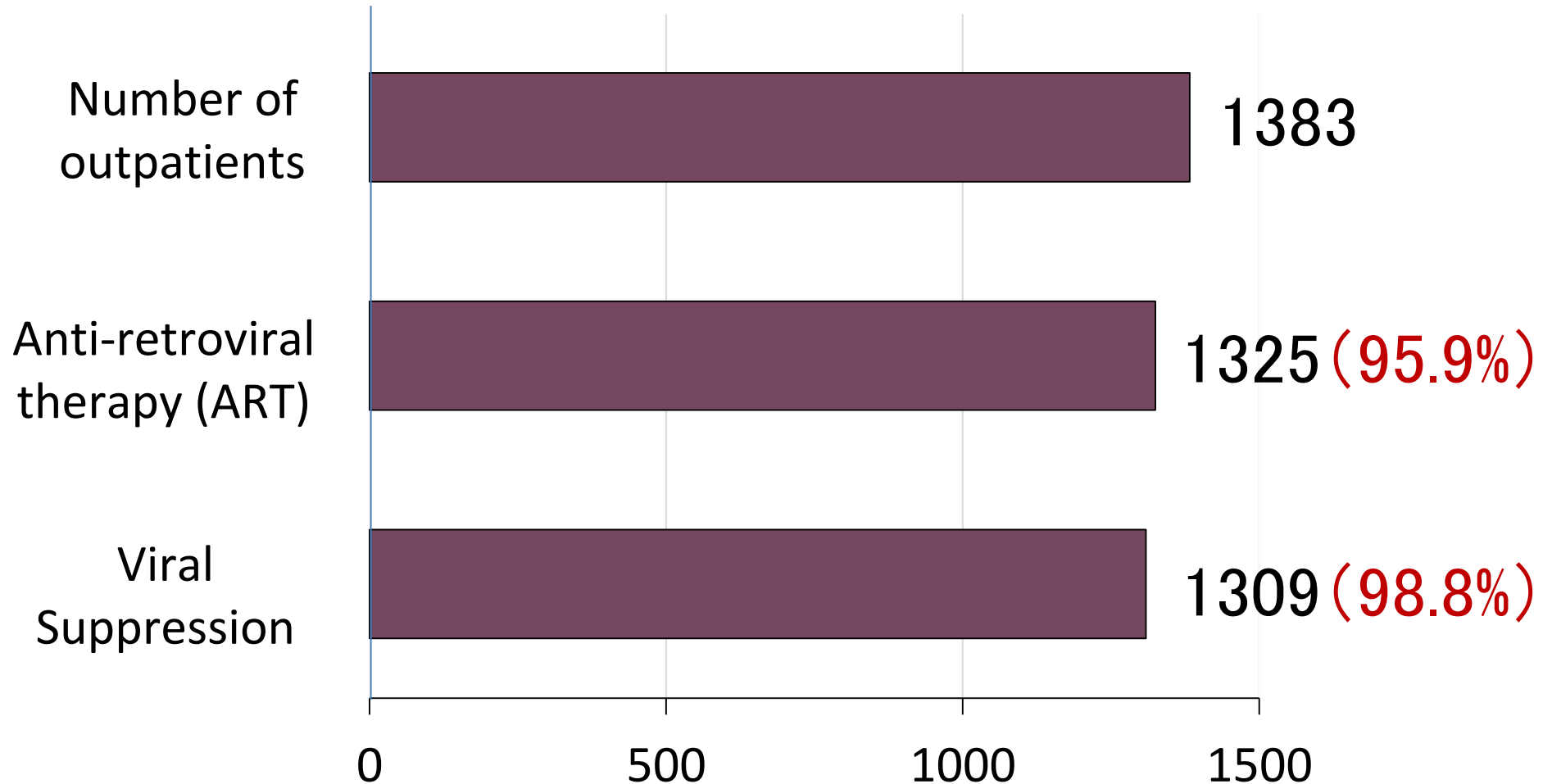
More men who have sex with men are individually importing cheaper drugs from abroad in order to start PrEP.

# Cumulative HIV+ cases (Komagome Hospital)

(~2017) **2756** cases

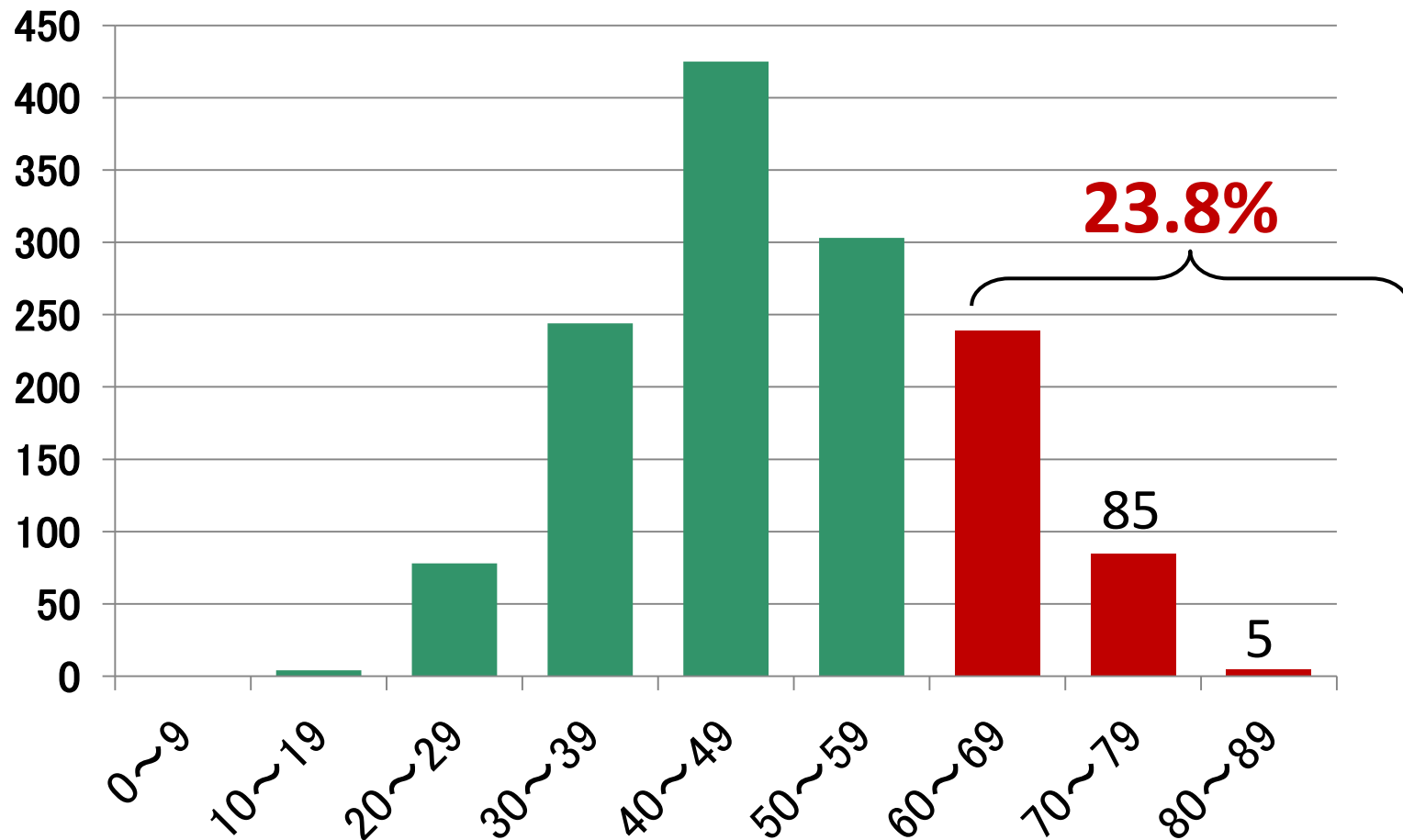


# Anti-retroviral therapy: ART in Komagome Hospital (2017)



# Age of outpatients (Komagome Hospital)

2017 n=1383



# Non-AIDS Comorbidities in treated HIV patients

**Cardiovascular disease**

**Liver disease**

**Chronic kidney disease**

**Osteoporosis**

**HIV associated neurocognitive disorders (HAND)**

**Non-AIDS-Defining Malignancies (NADM)**



## **AIDS-defining malignancies (ADM)**

**Kaposi's sarcoma**

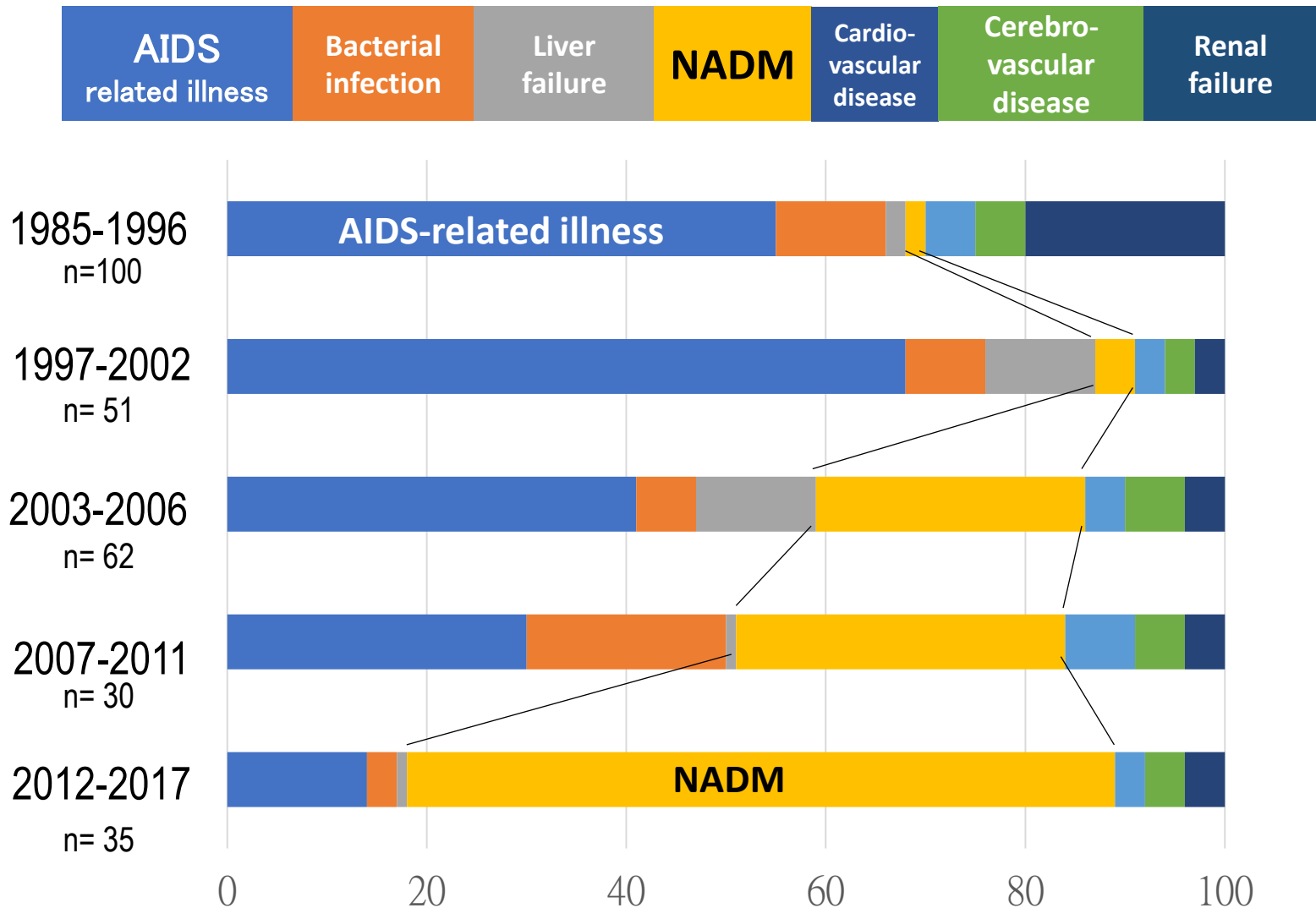
**Non-Hodgkin lymphoma**

**Cervical cancer**

## **Non-AIDS-defining malignancies (NADM)**

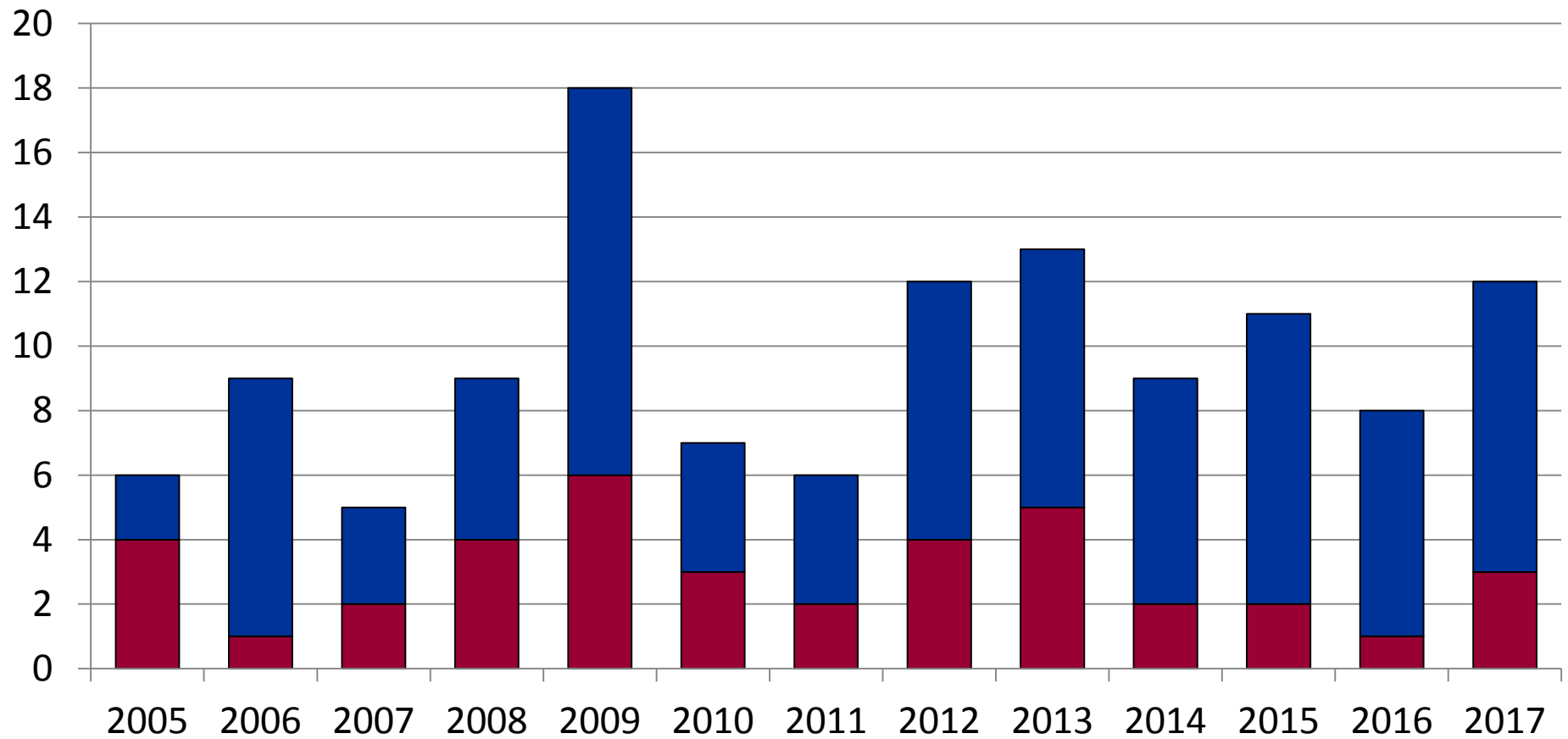
**Other malignancies**

# Changes in causes of death at Komagome Hospital



# Causes of death at Komagome Hospital

- AIDS-related illness
- Other cause of death



# Causes of death in 2015 at Komagome Hospital

■ AIDS-related illness
 ■ Other cause of death

Case	Age	First Visit	Cause of Death	Place
1	71	1997	Unknown	Home
2	68	2006	Liver-related	Home
3	60	1997	Cerebral hemorrhage	Other hospital
4	68	2004	Liver-related	Home
5	63	2015	AIDS-related illness (PCP, CMV)	
6	58	1999	Chronic kidney disease ( Dialysis )	Home
7	56	2015	AIDS-related illness (PML)	
8	30	2015	Nasal cancer	
9	48	2010	Unknown	Home
10	44	2005	Gastric cancer	
11	89	2000	Unknown	Home

# Causes of death in 2016 at Komagome Hospital

■ AIDS-related illness ■ Other cause of death

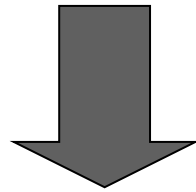
Case	Age	First Visit	Cause of Death	Place
1	58	2015	AIDS-related illness (Lymphoma)	
2	43	2013	Liver cirrhosis	Home
3	60	2015	Esophagus cancer	
4	52	2015	Gastric cancer	Other hospital
5	62	2001	Vesical cancer	Home
6	55	1998	Sepsis	
7	63	2010	Lung cancer	
8	48	2000	Oropharynx cancer	

# Causes of death in 2017 at Komagome Hospital

■ AIDS-related illness ■ Other cause of death

Case	Age	First Visit	Cause of Death	Place
1	81	1994	Cerebral hemorrhage	Home
2	49	2017	AIDS-related illness (PCP, CMV)	
3	67	1999	Pneumonia	
4	66	1993	Chronic kidney disease ( Dialysis )	Home
5	87	1992	Biliary cancer	Other hospital
6	33	2016	AIDS-related illness (KS)	
7	68	2006	Chronic kidney disease ( Dialysis )	Other hospital
8	49	1992	Unknown	Home
9	71	1998	Cerebellar infarction	Home
10	42	2017	AIDS-related illness (Lymphoma)	
11	71	2006	Unknown	Home
12	76	1992	Gastric cancer	Other hospital

**Many of the HIV/AIDS patients  
are MSM.**



**Increase in elderly patients  
living alone.**

# **Needs for medical system that supports aging society.**

- **Cooperation with other departments  
in the community**
- **Hospitals available for long stay**
- **Medical care service at home**



**Thank you for your attention**

