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**AMSTERDAM**  
**FAST-TRACK CITIES 2023**

# Tackling TB Among PLHIV: A Success Story in Screening and Prevention

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Health Department  
Bangkok Metropolitan Administration (BMA)

# Outline

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## Introduction

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## Description

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## Learned

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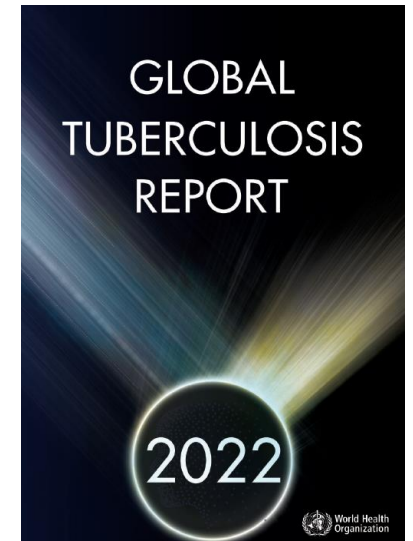
## Recommendation

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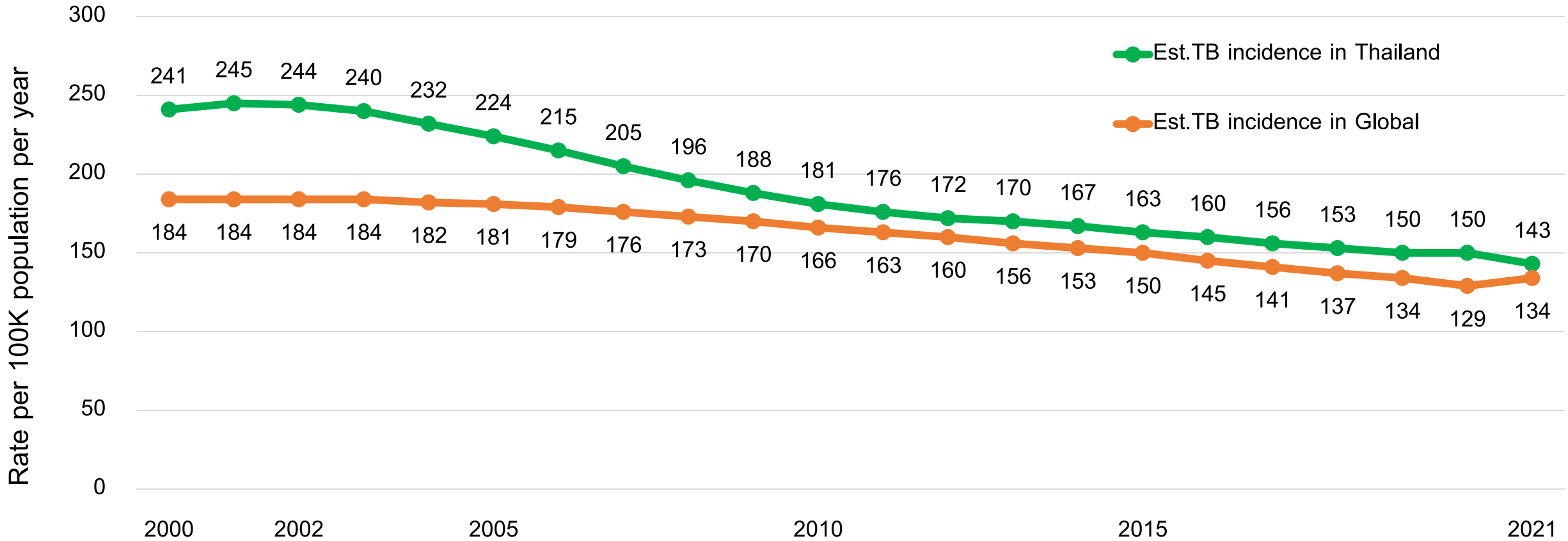
## Q&A

## The 3 HBC lists to be used by WHO, 2021-2025

- 30 countries in each list; 49 countries in at least 1 list; 10 countries in all 3 lists



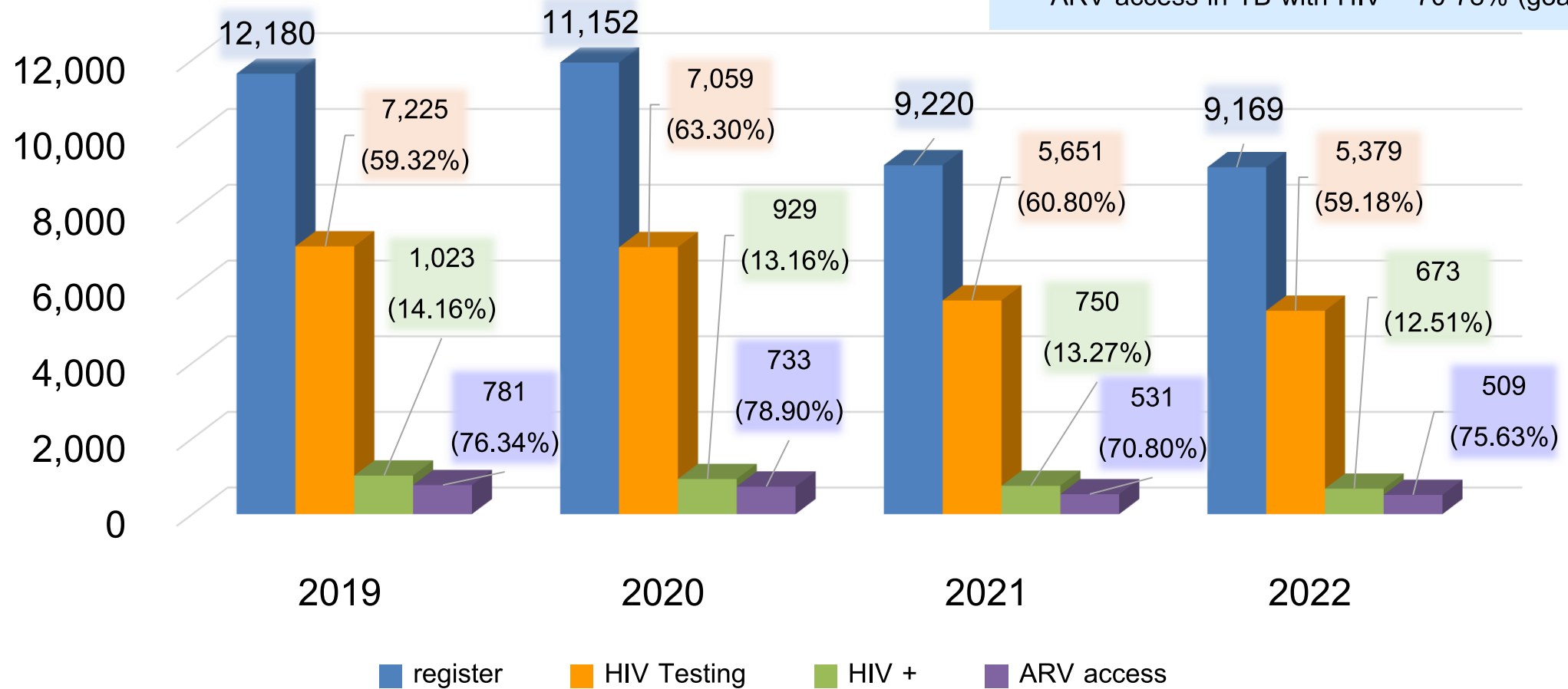
## Estimated TB incidence rate per 100K per year in Thailand





# TB with HIV Situation in Bangkok

HIV testing in TB ~ 58-61% (goal > 90%)  
ARV access in TB with HIV ~ 70-78% (goal = 100%)



## FAST-TRACK CITIES

In 2014, Bangkok joined the Paris Declaration  
On Fast-Track Cities.  
To achieve the 90-90-90 targets by 2020 and  
ending the AIDS epidemic by 2030

In 2021, Bangkok Received  
“The Circle of  
Excellence Award”  
in Fast-Track Cities 2021 conference

In 2022, Bangkok joined the Sevilla Declaration  
On Fast-Track Cities.  
To achieve the 95-95-95 targets by 2025 and  
ending the AIDS epidemic by 2030



## Ending TB Strategies in Bangkok



Incidence Rate 10 : 100,000 population in 2035

### Accelerate TB patient case finding

- Passive Case-Finding
- Active Case-Finding
  - Household Contacts
  - On-site at hospital :  
HIV, Diabetic, PWID
  - Out-site of hospital :  
slums, prisons,  
vulnerable population

### Effective and Successful Treatment

- In line with NTP guideline
- Free of charge ; (both Thai and Non Thai)  
(Strong Recommended)
- DOT/VOT : Clinic base DOT,  
Family member based DOT  
(Strong Recommended)
- Living Support

### Screening and Treatment for Latent TB Infection

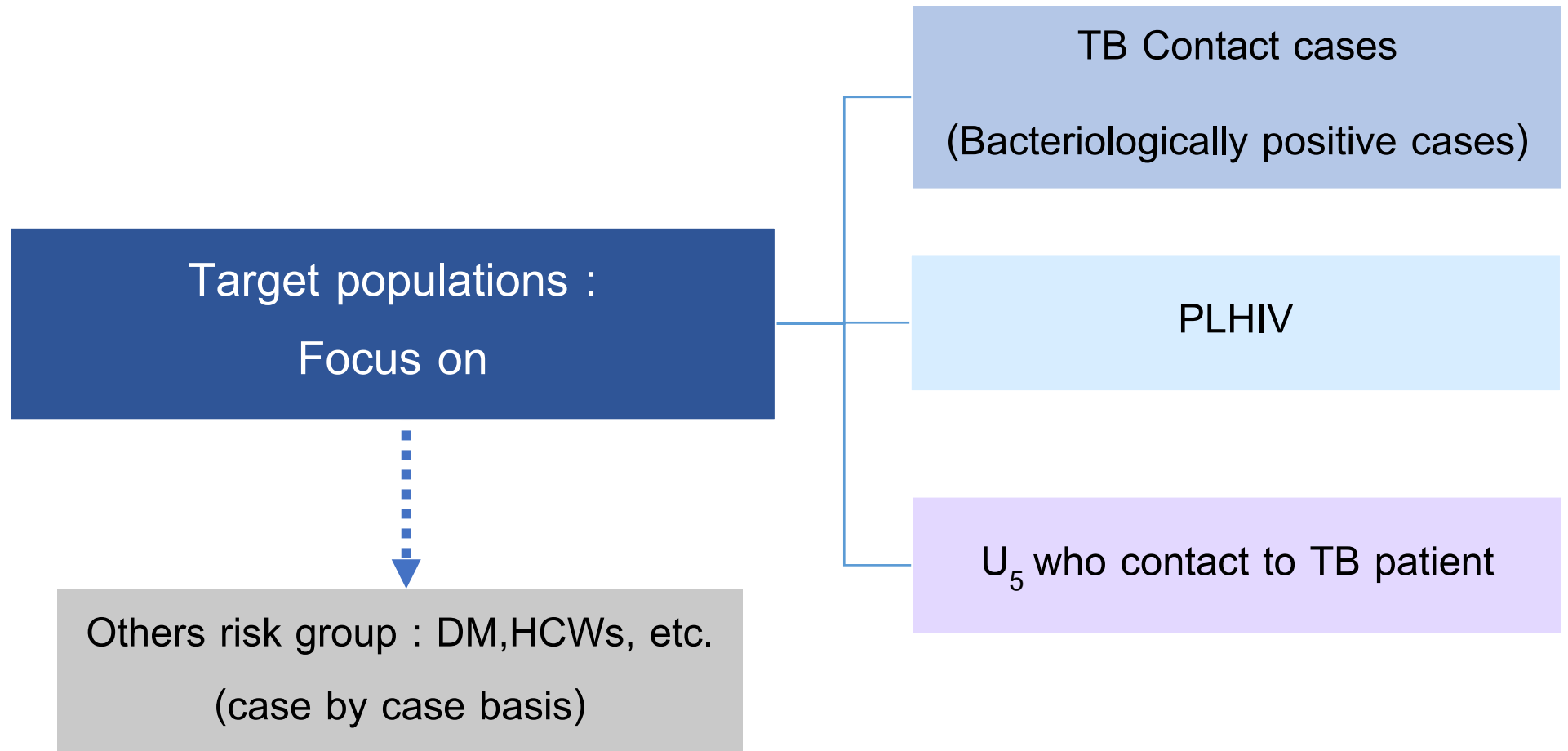
- Target population : Focus on
  - TB Contact cases  
(Bacteriologically positive cases)
  - PLHIV
  - Children < 5 yrs who  
contact to TB patient

### Monitoring, Evaluation and Supervision

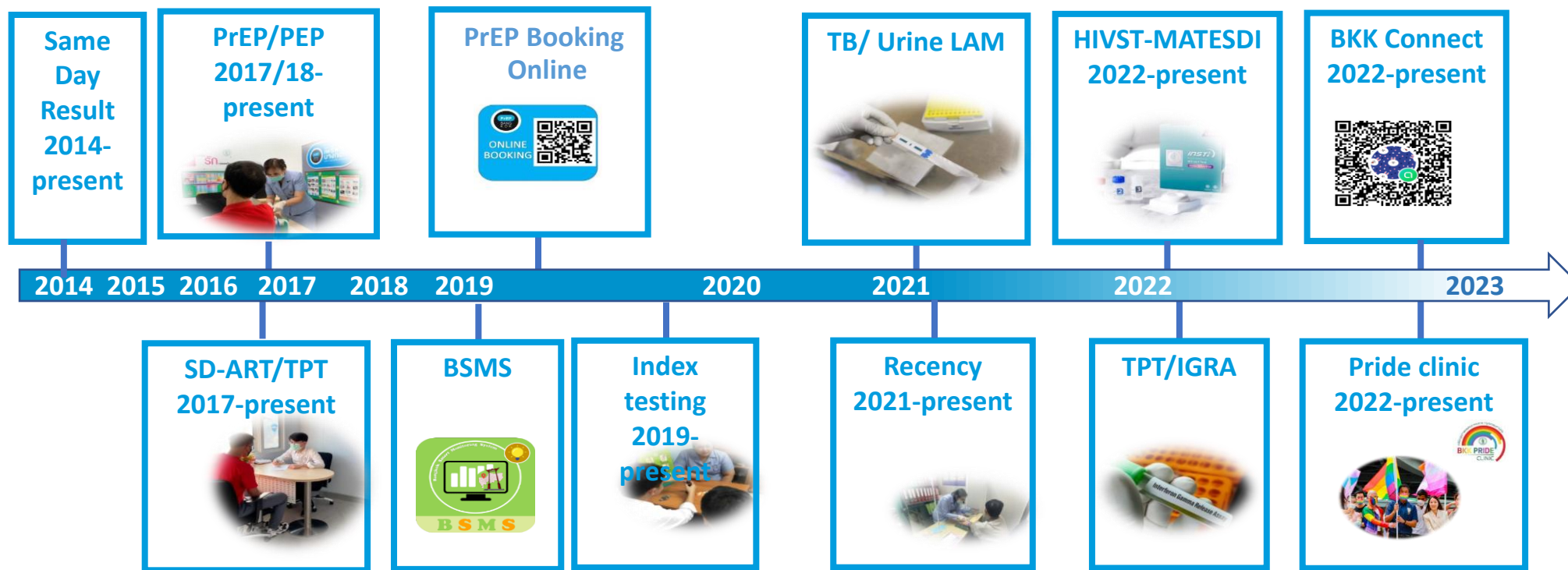
- Focus on health facilities under BMA :
  - 11 hospitals
  - 69 public health centers



# Latent TB Infection



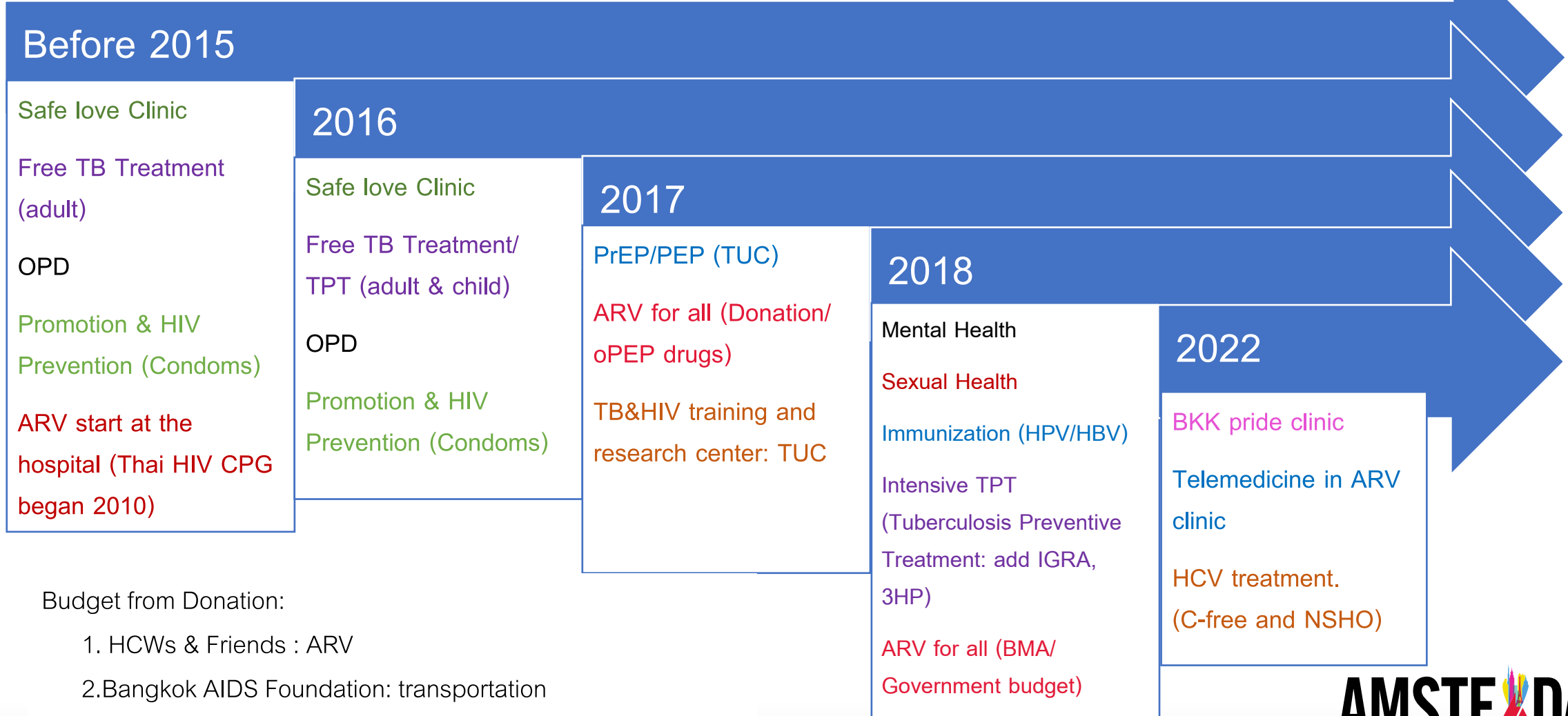
# HIV, TB and STIs Services & Activities in BMA Public Health Centers, 2010-2023



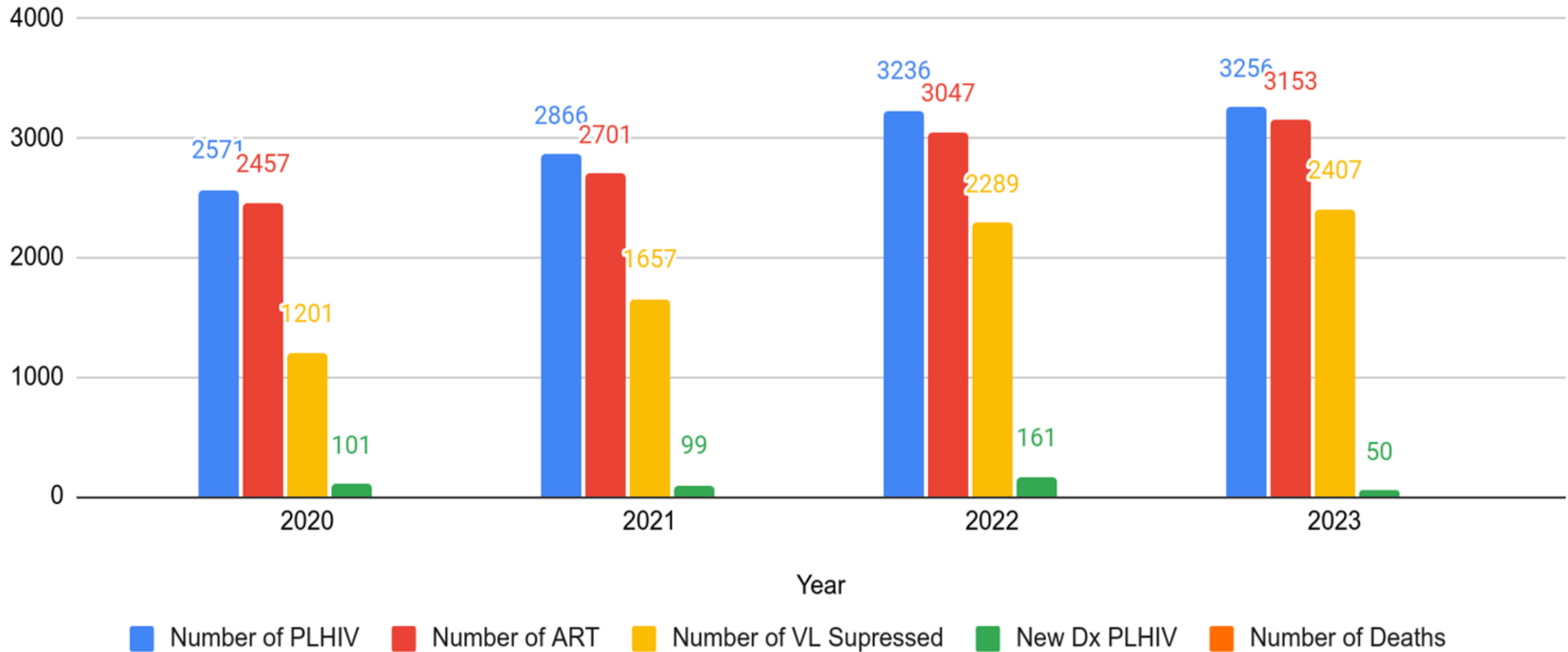
## Public Health Center 28, BMA

- 
- A primary care unit (PCU) under Bangkok Metropolitan Administration
  - Providing free services for
    - Tuberculosis (TB) since 2000
    - HIV patients since 2017
- 
- The first PCU in Bangkok to initiate antiretroviral therapy (ART) for PLHIV since 2017
- 
- As of June 2023, currently provide care for 4,398 PLHIVs

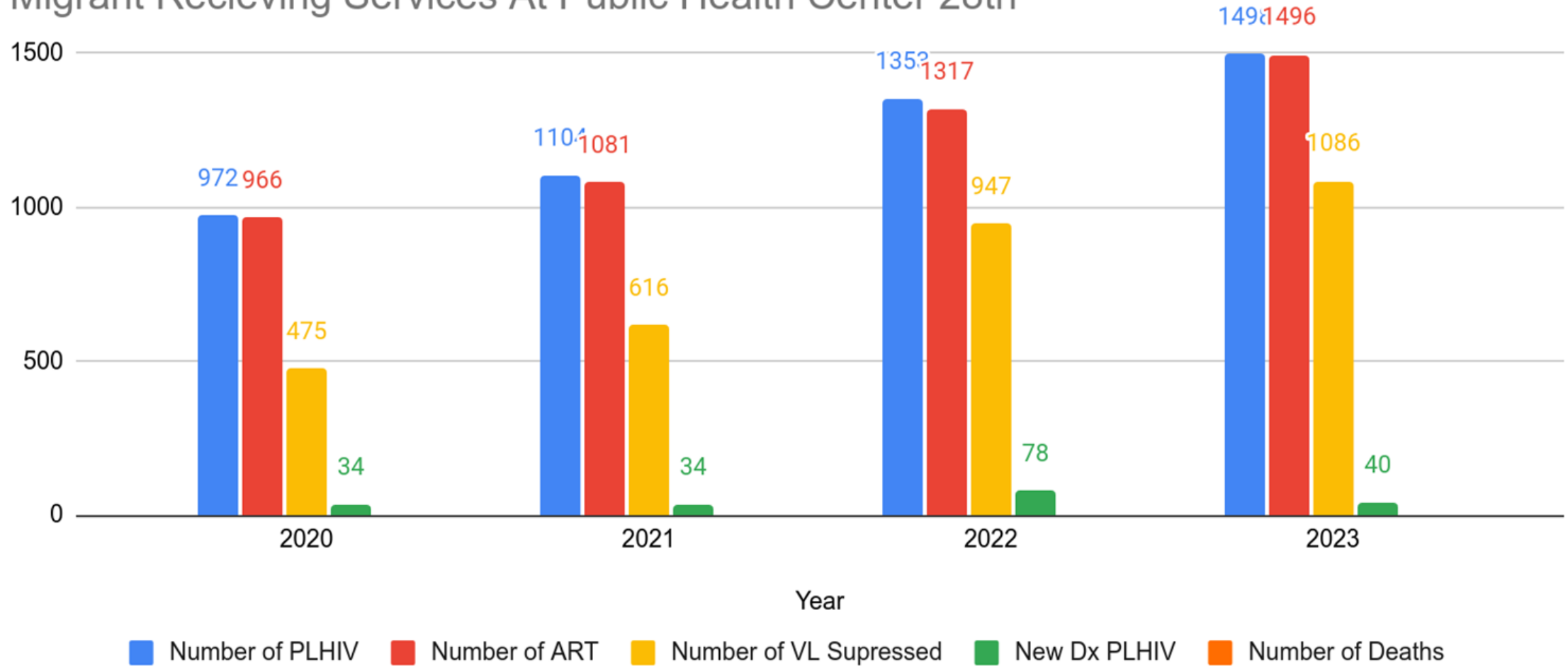
# Public Health Center 28 Services Timeline



## All PLHIV Receiving ART at Public Health Center 28

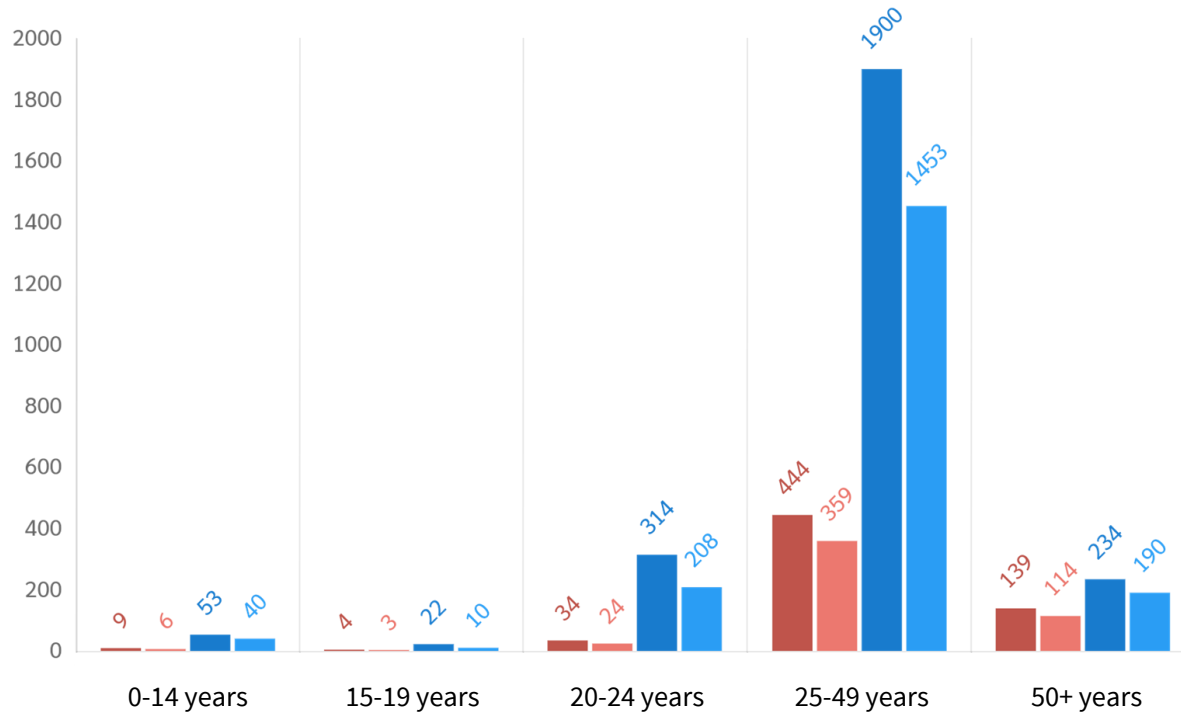


## Migrant Receiving Services At Public Health Center 28th

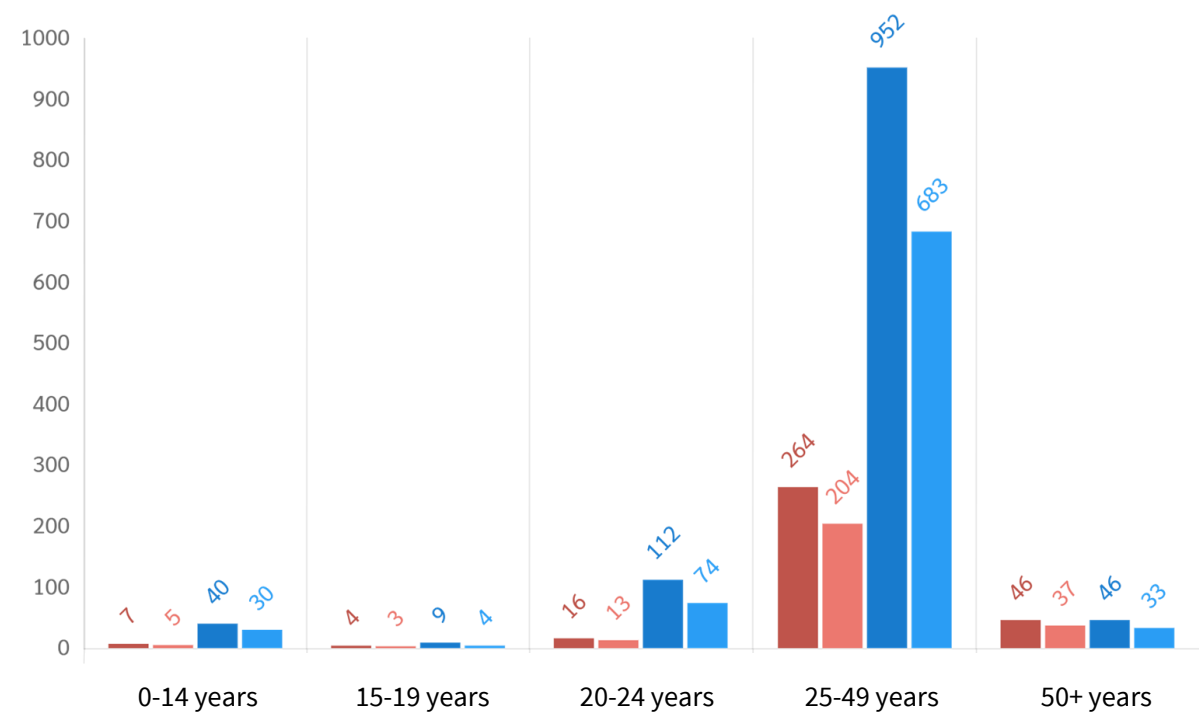


## Patient Demographic Data

### All PLHIV



### Migrant PLHIV



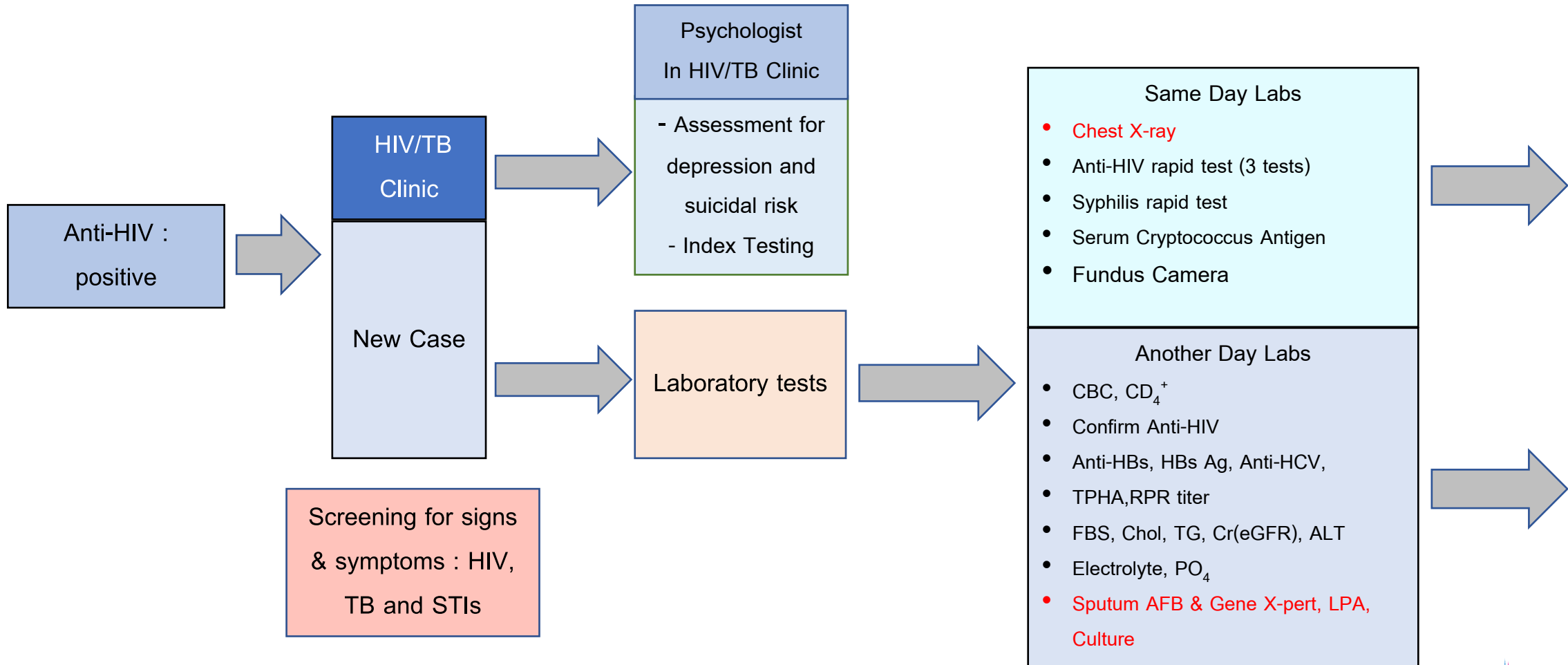
- Female (All)
- Female (VL < 1000)
- Male (All)
- Male (VL < 1000)

# Description

- TB remains the leading cause of mortality among PLHIV in Thailand
- Public Health Center 28 implemented a comprehensive TB screening and treatment package for PLHIV since 2017
- Our screening methods at the initial visit include
  - TB symptom questionnaires
  - Assessing contact history with TB patients
  - Chest X-rays (CXR)
  - Molecular techniques for sputum examination (Gene X-pert, LPA)
  - TB culture tests

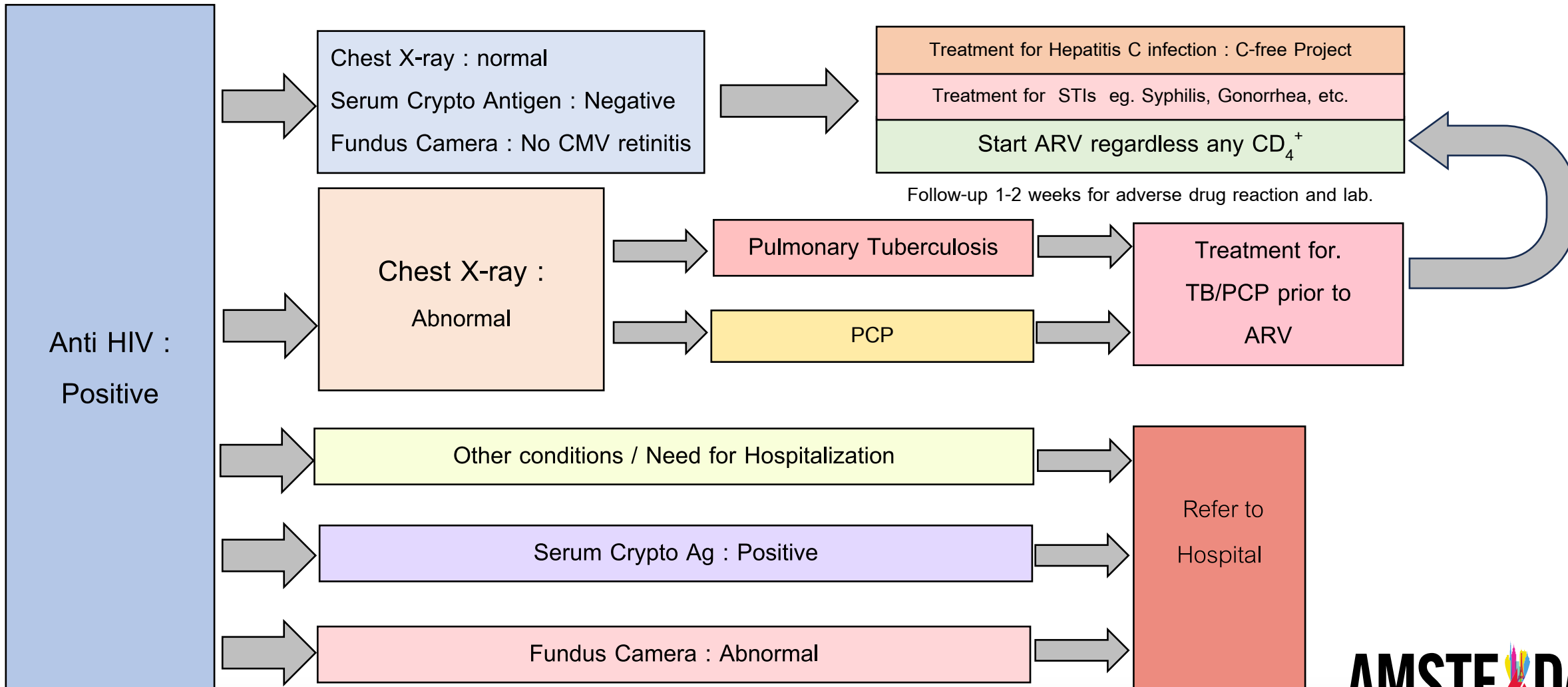


# Flow of Services in HIV/STIs Clinic



Screening for signs & symptoms : HIV, TB and STIs

# Flow of Services in HIV/STIs Clinic



# Description (cont.)

- TB-negative PLHIVs were screened for latent TB infection (LTBI) :
  - tuberculin skin testing or
  - Interferon-gamma release assays (IGRA)
- LTBI-positive individuals receive tuberculosis preventive therapy (TPT) :
  - Regimen :3HP, 1HP, 9H (and Vitamin B6)
- No cases of active TB were detected among PLHIVs after initiating ART at our PCU
- We also employ TB symptom questionnaires, assessing contact history with TB patients and perform annual CXRs during each visit
  - We found three PLHIVs referred to our PCU for continued ART subsequently developed active TB

# Learned

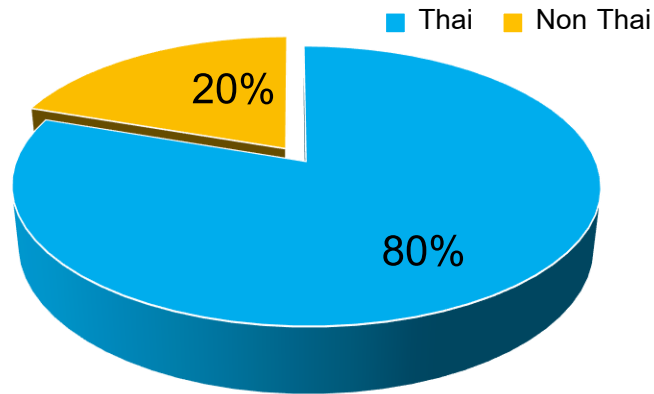
- Between October 2017 and September 2022, Public Health Center 28 provided care for 3,627 PLHIVs

- 246 (6.8%) had TB/HIV co-infection

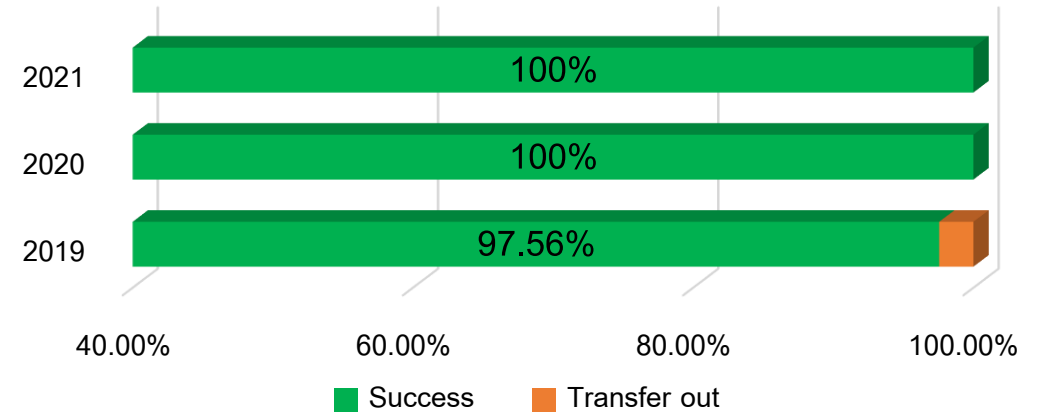
All 246 individuals successfully had completed their TB treatment and received ART altogether without any serious complications

# TB in Public Health Center 28

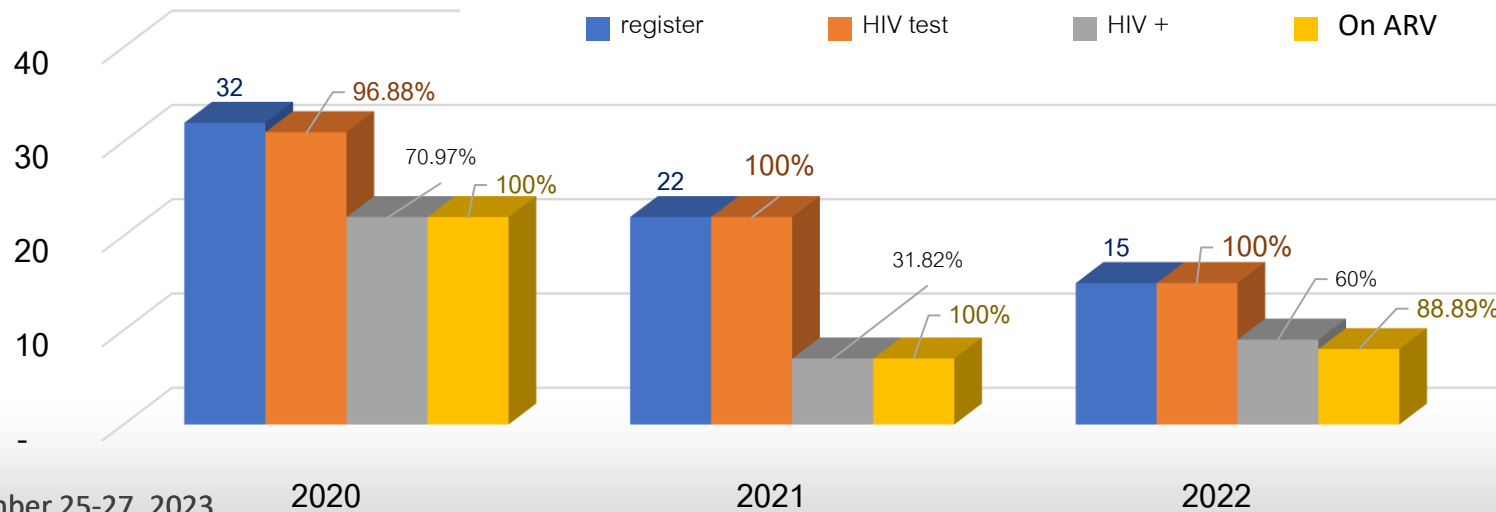
### TB Cases Notification in 2022



### Treatment Success rate in Non thai in 2019 - 2021



### TB HIV in Non Thai in 2020 - 2022



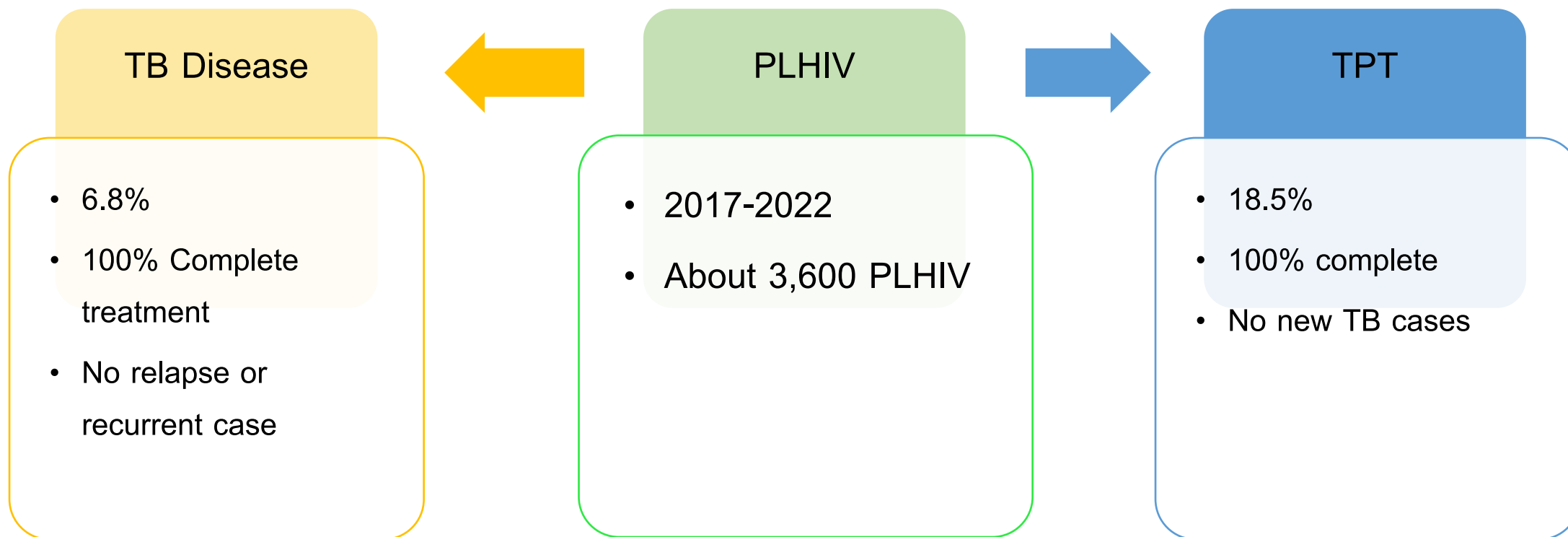
## TB Preventive Treatment (TPT)

	2018	2019	2020	2021	2022
Contact case < 5year	17	32	17	17	24
Contact case $\geq$ 5year	22	24	19	38	42
PLHIV	38	43	81	137	372

## Completion rate of TPT

Target population	2018	2019	2020	2021	2022
Household contact cases	64.7%	62.5%	89.5%	95%	94.2%
PLHIV	100%	100%	100%	100%	100%
U <sub>5</sub>	70%	75%	76.5%	76.5%	83.4%

# Screening TB in PLHIV



# Recommendations

- Implementing a systematic and comprehensive TB screening and prevention package for all PLHIV, including using TB symptom questionnaires during each visit, assessing contact history with TB patients, performing annual CXRs, utilizing molecular techniques for sputum examination, and culture tests
- TB-negative PLHIV should undergo screening for LTBI and receive TPT if diagnosed with LTBI
- These measures are crucial for managing TB among PLHIV and reducing TB-related morbidity and mortality



# Lessons learned to Thai CPG for LTBI in HIV

**กิจกรรม ECHO**  
การขับเคลื่อน  
ชุมชนนักปฏิบัติ ด้านเอชไอวี

TOPIC :  
**LESSONS LEARNED IN LTBI/TPT MANAGEMENT:  
CHALLENGES AND REFLECTIONS**

ครั้งที่ **7**

**ผู้เกี่ยวข้อง**

- นางสาวณิชากร นีติกานา พญ.ฉัตรพร พงษ์ตะวัน ศูนย์บริการสาธารณสุข 26 จังหวัดนครปฐม
- นางสาวณิชากร นีติกานา พญ.ฉัตรพร พงษ์ตะวัน ศูนย์บริการสาธารณสุข 26 จังหวัดนครปฐม
- ดร. พญ.ดิเรก อัครกานนท์ ศูนย์โรคติดต่อ สภากาชาดไทย
- UPDATE การดูแลรักษาผู้ป่วย TB/HIV พญ.สัมพันธ์ สอนรอง และทีม โรงพยาบาลขอนแก่น โรงพยาบาลอุดรธานี

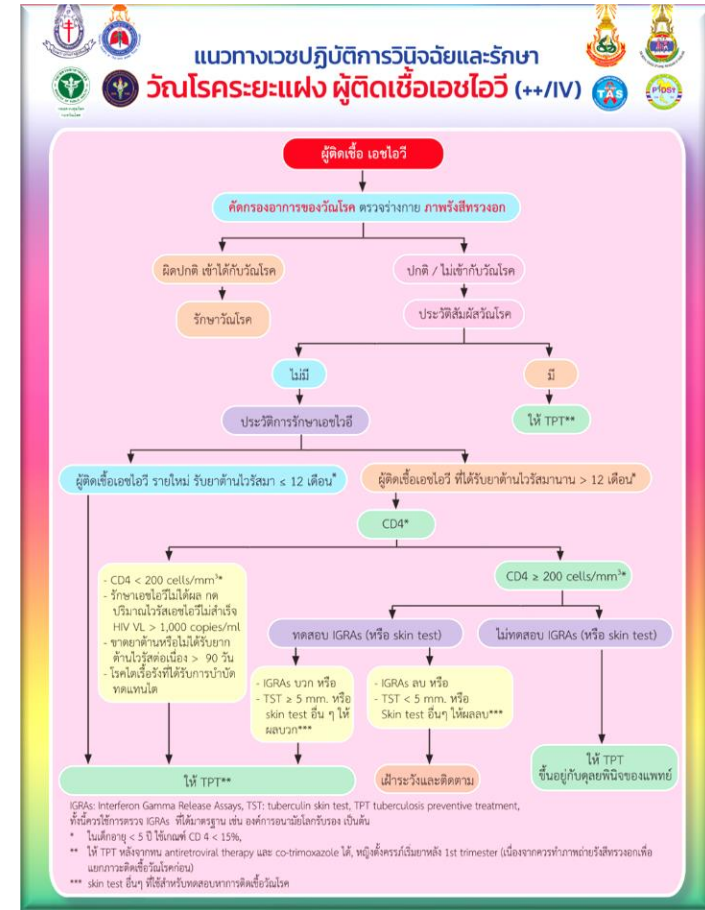
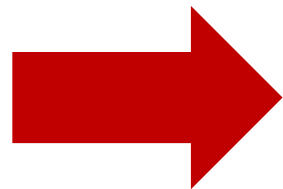
**ประธานการนำทบทวน TPT**

- พ.ศ. พญ.ดิเรก อัครกานนท์
- พ.ศ. พญ.สัมพันธ์ สอนรอง

**ลงทะเบียน** **Zoom link**

**12 กรกฎาคม 2566 12.00 - 13.30 น.**

รูปแบบ Online ผ่านโปรแกรม Zoom  
Meeting ID : 626 052 1309



Q&A

