



IAS 2019

10TH IAS CONFERENCE ON HIV SCIENCE
Mexico City, Mexico 21-24 July 2019

HIV Recency Testing

Preliminary experiences from Vietnam

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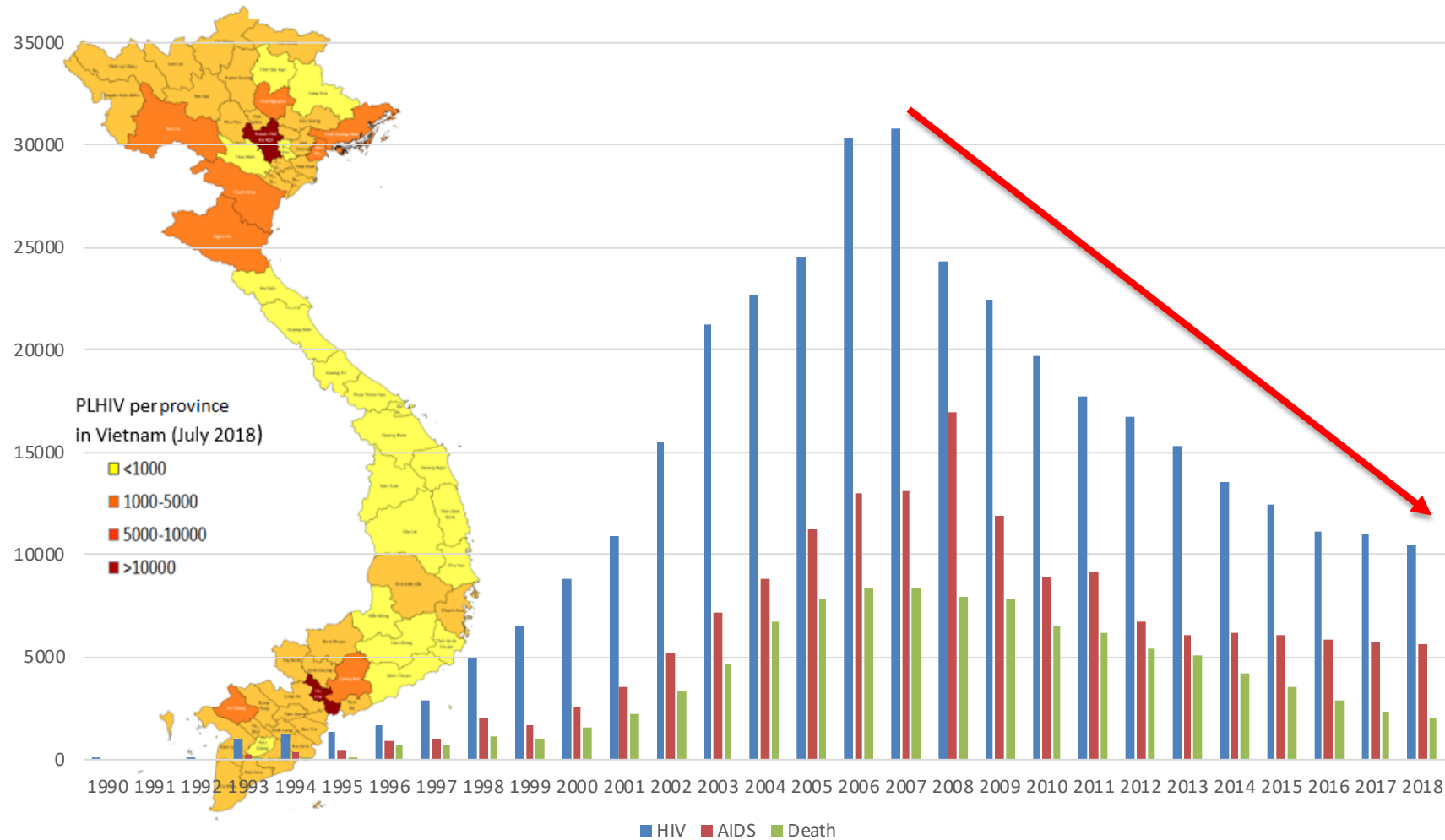
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1. Implementation timeline
2. Some initial findings
3. Conclusions





HIV/AIDS Epidemic in Vietnam: Key Facts



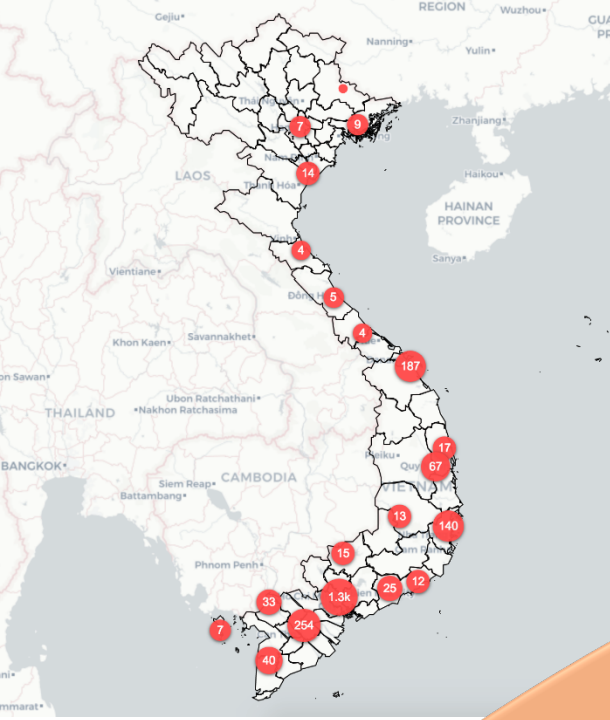
- **96** millions pop
- **250.000** PLWH
- Concentrated epidemic: **PWID (14%), MSM (12%), FSWs (3,6%)**
- Reduce 2/3 during last 10 years.
- 90-90-90 Targets:

80-70-95



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Recency Testing Implementation timeline



Dec 2017
In-country lab
validation

Jun 2018
Recency testing with
804 **stored samples**
from 3 provinces

Feb 2019
• **Routine recency testing** in 10
PEPFAR
supported
provinces

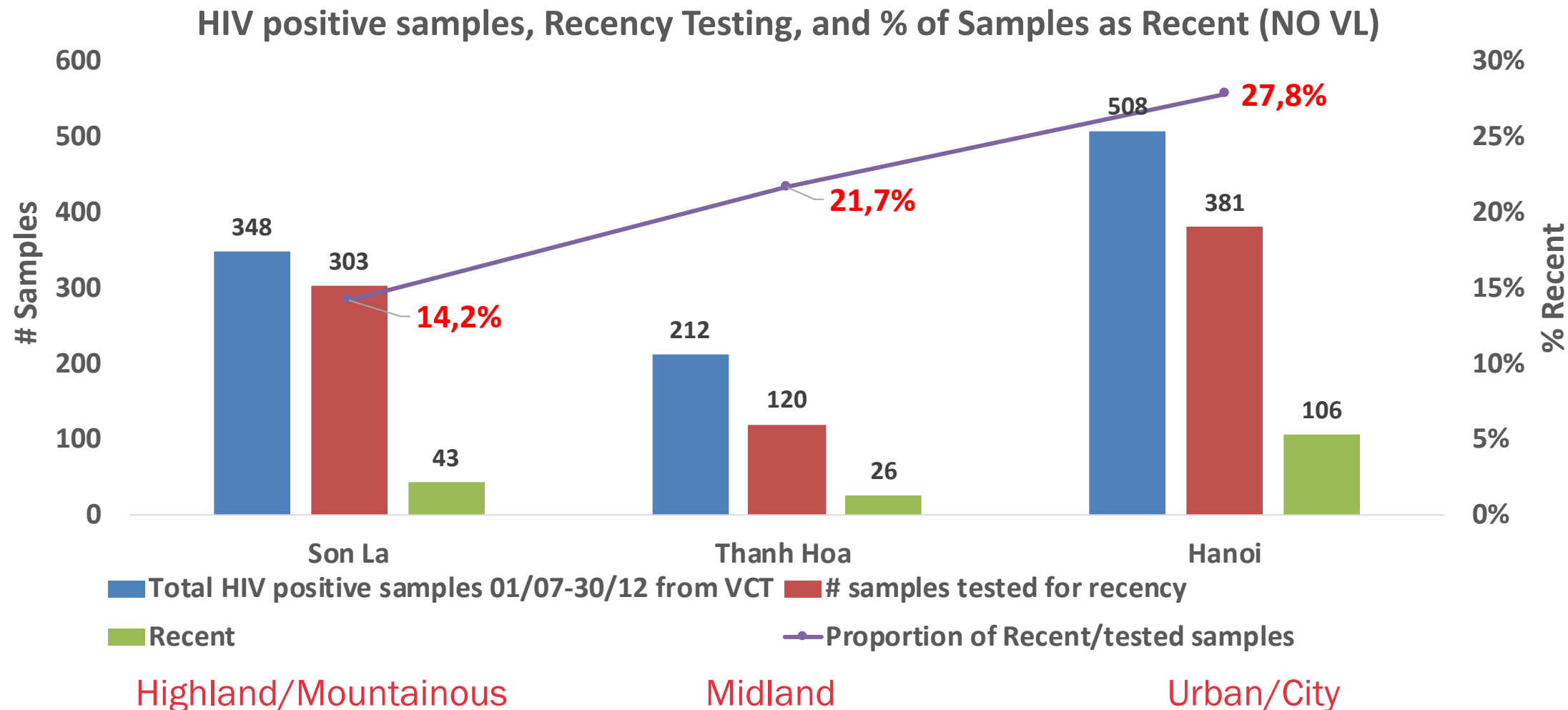
Jul 2019
• Integrate in the
HIV surveillance system (HSS+)
in 20 provinces

2020+
• Integrate in the
National HIV
testing algorithm
(?)
• Nationwide
implementation
(?)



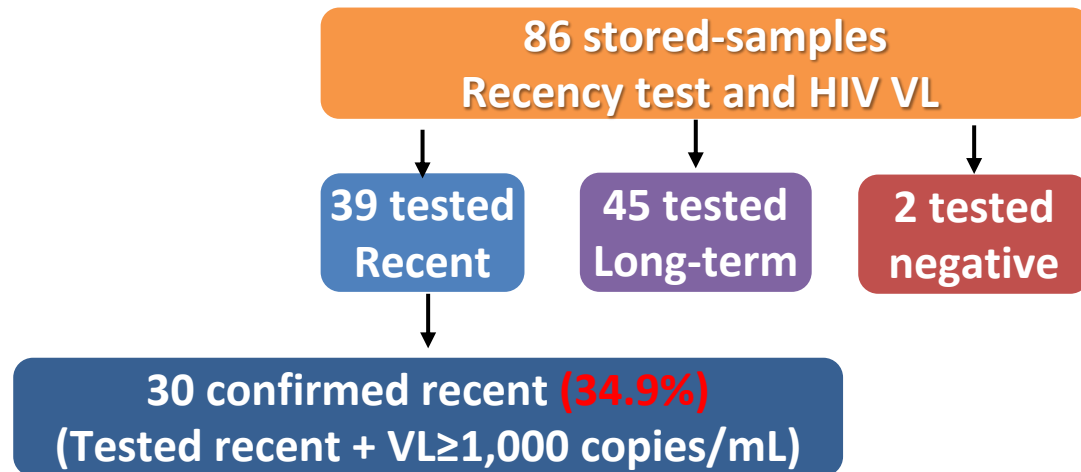
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Recency Testing on 804 Stored Samples to Better Understand the HIV epidemic, May 2018



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Recent Testing in 86 stored-samples, MSM cohort, Hanoi 2017



HIGH + YOUNG!
Recent Infections: **34.9%**
Average age: **23 yrs**



Routine recency testing in 10 PEPFAR supported provinces, Feb – May 2019

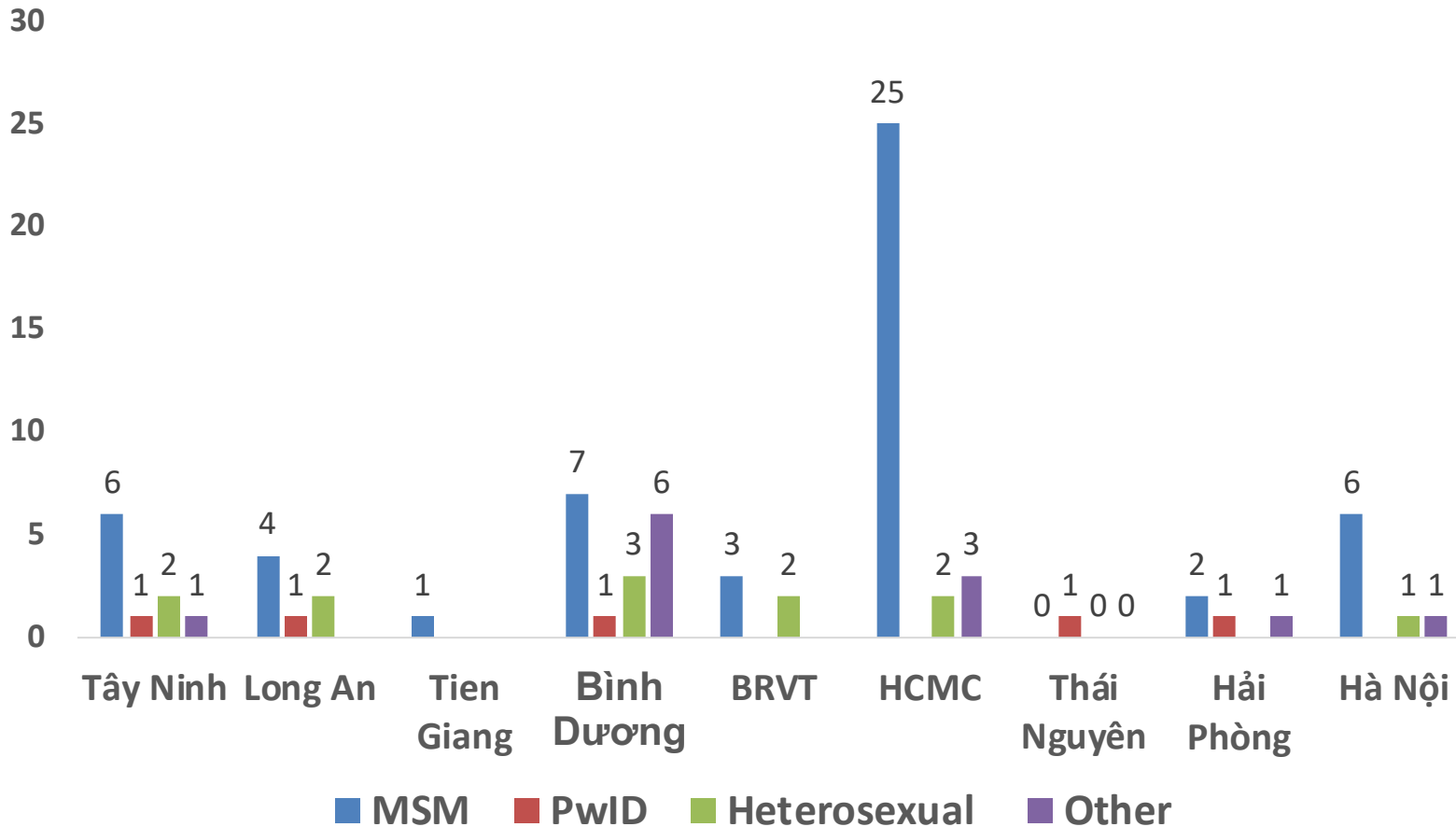
- Start: Feb 2019
- So far, **1,220** tests conducted/5 mths
- Confirmed with VL: **110 (9.0%)** (some provinces did not carry out VL for all samples)

Province	Number tested on RTRI	Number tested RTRI-recent	Number RTRI – recent tested HIV VL	Number confirm – recent (VL>1000 cp/ml)
Long An	34	12	9	7
Đồng Nai	115	37	37	27
Bình Dương	100	22	22	17
Tây Ninh	47	19	10	10
Tiền Giang	55	8	2	1
BR-Vũng Tàu	114	11	9	5
HCMC	243	33	31	30
Hải Phòng	51	6	6	4
Hà Nội	425	42	19	8
Thái Nguyên	36	3	3	1
Total	1,220	184	148	110

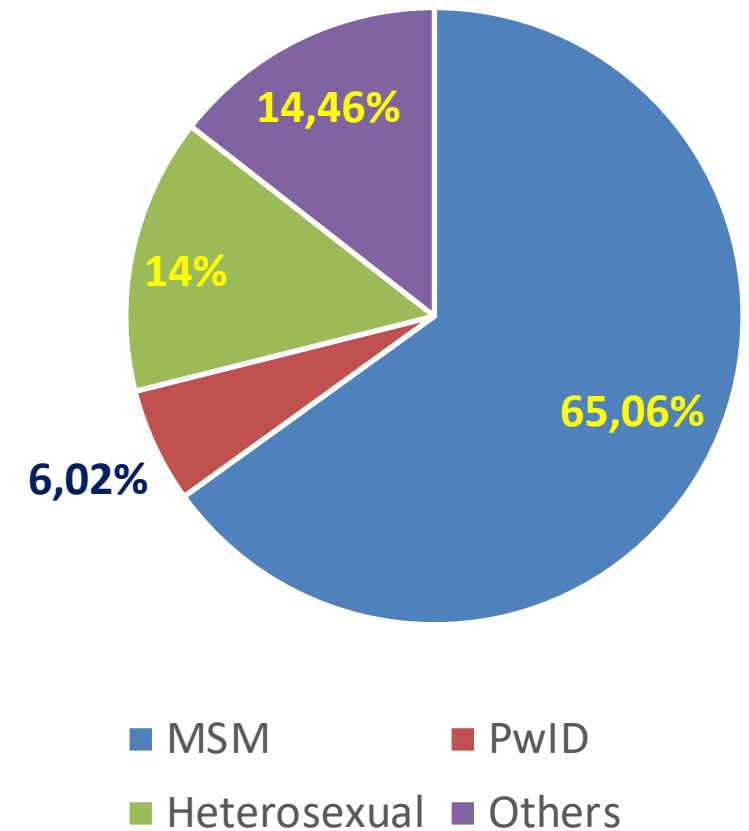


Recent Infection Among Target Group, Feb–May 2019

Number of recent infection among target groups,
10 PEPFAR surged provinces, Feb – May 2019



Share of KP Groups among recent
infections, Feb – May 2019



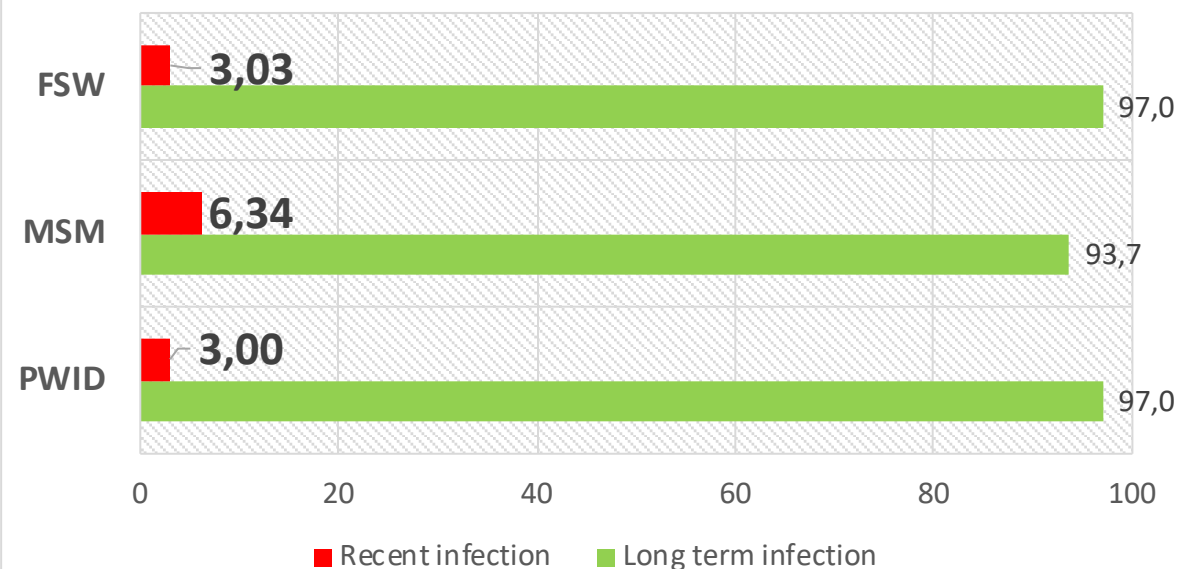
Integrated Recency Test in National HSS+ in 20 Provinces, 2018

❖ To estimate proportion of recent infection among HIV positives and HIV incidence rate among KPs.

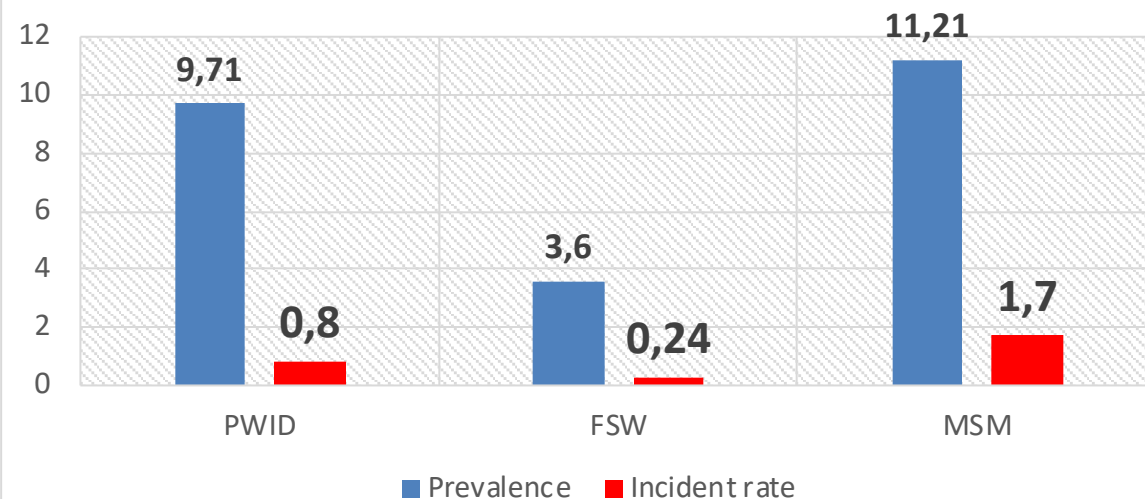
❖ Results:

- Highest recent infection: MSM **6.34%**.
- Incidence rate among MSM: **1.7%** (per 100-person years)

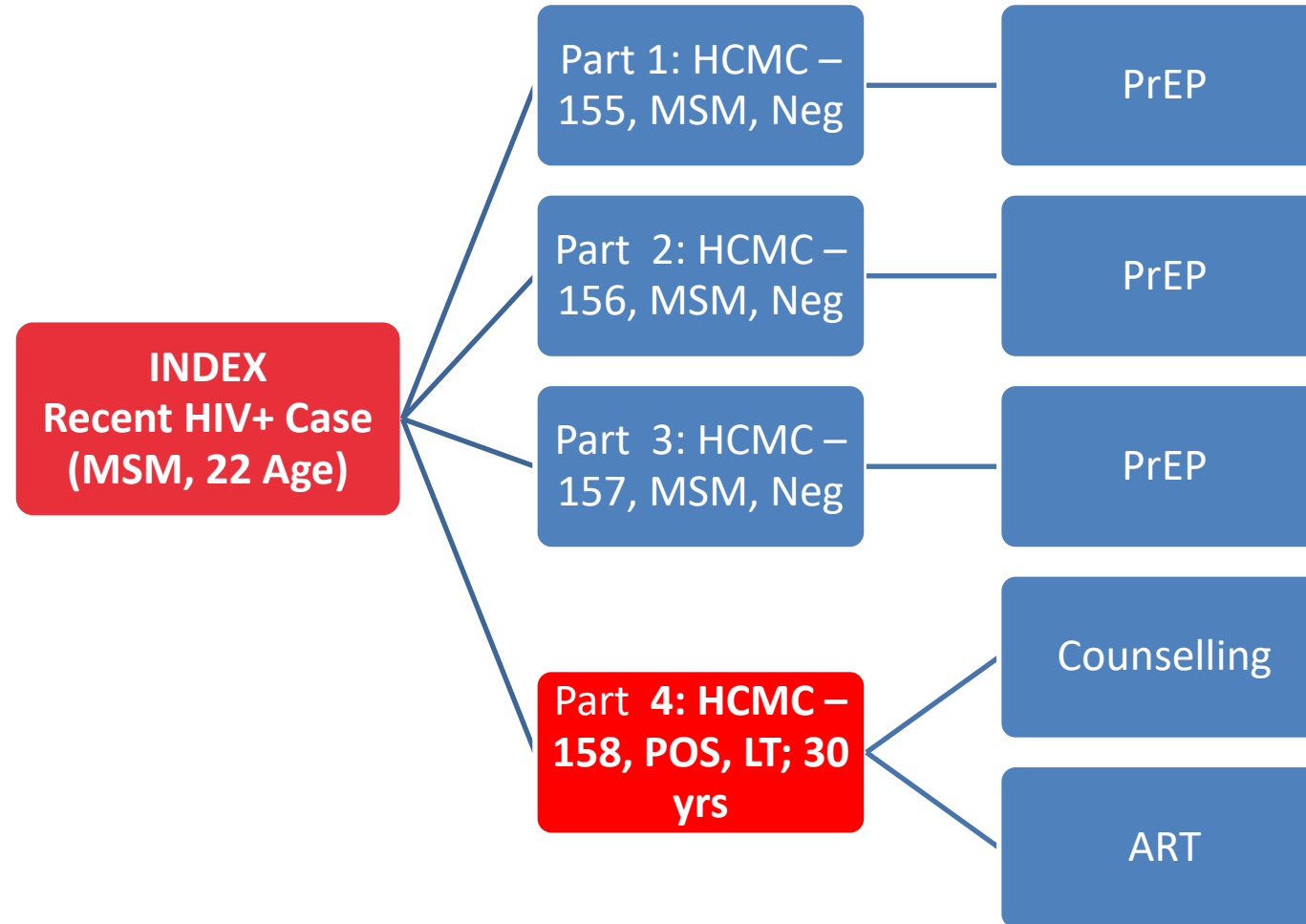
Proportion of recent infection among HIV positive



Estimated Prevalence and Incidence



Recency Testing and Index-partner Testing: An Example from Binh Chanh District, Ho Chi Minh City



Integrate Recency Testing into National HIV Testing Algorithm?

[1] To be approved by MOH as diagnostic test

- Meet national requirements for licensing and importing to Vietnam.



[2] To be included in the MOH's HIV testing guideline

- Meet national requirements on Sen (>99.5%) & Spec (> 98%)
- Recommended by WHO



[3] To be used nationwide at the sites

- Available in the markets
- Reasonable price



Conclusions

1. Recency testing is useful to better understand the HIV/AIDS epidemics, especially estimate the new infection/incidence in different KPs, geographical areas for proper interventions.
2. Recency testing, combined with index-testing, helps to find partners for proper prevention (e.g., PrEP) and ARV treatment timely.
3. Further steps need to be done to include Recency testing in Vietnam's national HIV testing algorithm as a HIV diagnostic test.





Ha Long Bay, Vietnam



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