



Private sector service utilization among people living with HIV/AIDS (PLHIV) in Vietnam:

Exploring the changes between 2005 - 2010

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Overview

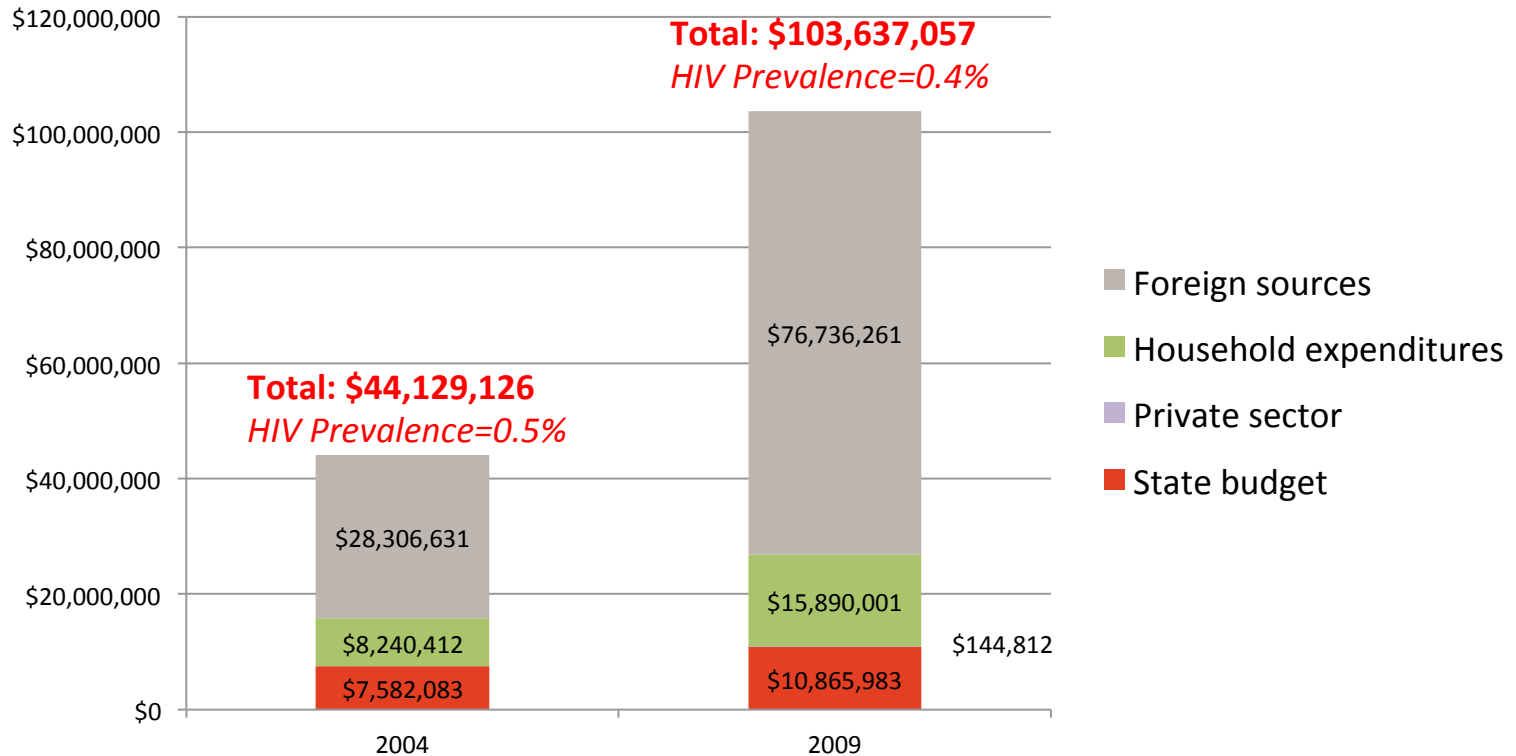


- **Background:** The changing HIV funding landscape and situation of private health sector (PS)
- **Research questions:** Exploring role of PS and how it changes over time
- **Data:** Surveys of PLHIV 2005 and 2010
- **Findings:** Current situation of PS supply of drugs and commodity and provision of services
- **Discussion:** Interpretation and implications of study findings.

Spending on HIV/AIDS more than doubled between 2004-2009, largely due to increased donor funding

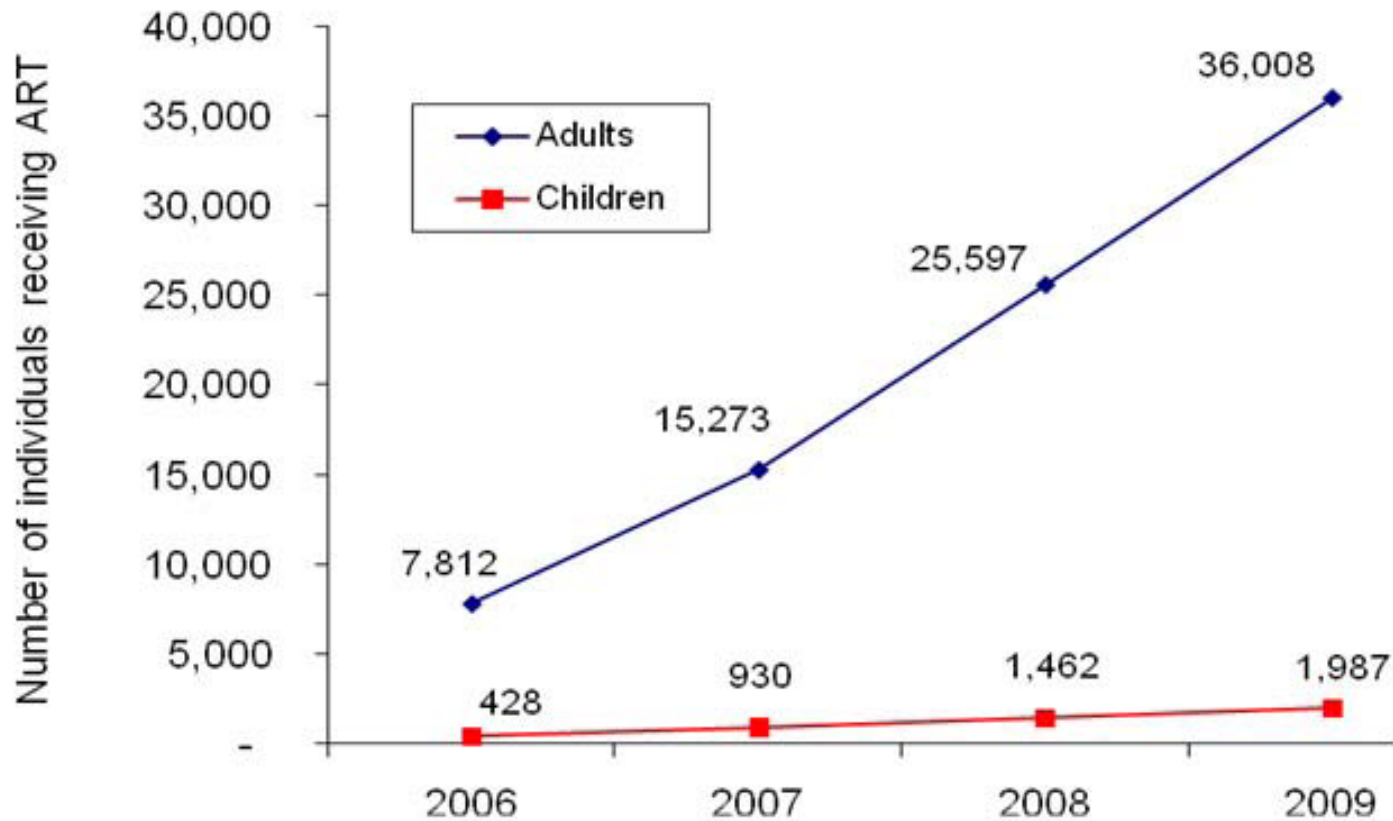


HIV/AIDS spending by source



Source: Vietnam National Health Accounts (NHA) HIV subaccount, 2010

Access to ART increased by more than 4 times between 2006 and 2009



Source: *Routine treatment program report. VAAC, 2009 (UNGASS 2010)*

ART sites housed within public facilities boomed with major support from donors



ART sites by level and funding source, 2009 and 2010

2009	National funds	External funds	Total
District level	4	144	148
Provincial and central level	48	90	138
Total	52	234	286
2010	National funds	External funds	
District level	73	164	237
Provincial and central level	76	144	220
Total	149	308	457

Source: Vietnam Administration of HIV/AIDS Control (VAAC)

Private health sector is large and growing; role in service provision for PLHIV unclear



- PS plays a nontrivial role in service provision for general population, in particular outpatient care:
 - 35,000 private facilities, mainly in the form of clinics (vs. 13,500 public facilities) (*Vietnam Joint Annual Health Review 2009*)
 - 83 private hospitals (increase from 12 in 2000); ~3.3% all beds (*MOH Statistics Yearbooks*)
- Legal documents ban sales of ARVs in private facilities
- Free ART for PLHIV and subsidized OI treatment using government and donor funding available only in public facilities
- No clear understanding of actual situation regarding service provision for PLHIV by the PS

Research questions



- What role does the private sector play in providing services for PLHIV in Vietnam?
- How has the role of the private sector changed between 2005 – 2010, in tandem with major increase in HIV spending from donors?

Surveys of PLHIV 2005-2010



- Independent cross-sectional surveys of PLHIV in 2005 and 2010 conducted by Abt Associates (n=708 and 1200)
- Four-week recall of health status, service utilization and associated expenditure on HIV-related services
- Household ownership of assets -> wealth tertile
- Multi-stage sampling design:
 - Provinces selected within region/cluster (PPS)
 - Capital city and 2 districts selected (PPS)
 - Random selection of respondent at district level based on list managed by district preventive health centers
- Representative at national level

Data limitations



- Major challenges in recruiting PLHIV for surveys; selection of respondents at district not truly random:
 - Relied on health facilities, who managed patients they treat => sample biased toward people being under treatment, e.g., receiving ART.
 - PLHIV available to participate may systematically differ from those who were not => direction of bias unclear
 - Similar situation between 2005 and 2010.

Description of surveyed population



Population Characteristics	2005	2010
Northern region (%)	44.19	54.06
Central region (%)	4.98	6.98
Southern region (%)	50.82	38.96
On ARV (%)	12.95	81.68
Education: Primary and below (%)	30.40	19.45
Education: Secondary (%)	65.10	76.78
Education: High school and above (%)	4.50	3.76
Male (%)	73.56	61.45
Age (year)	29.90	33.28
Month since tested positive (month)	30.38	49.67
Ill last 4 weeks (%)	58.60	7.70

Note: all differences between 2 years are statistically significant at $p < 0.01$

PLHIV had more services but lower insurance coverage than general population



PLHIV	2005	2010
Self medication	39.9%	38.5%
Having outpatient contact last 4 weeks	61.5%	73.1%
Having inpatient stay last 6 (12) months	12.6%	15.5%
Having health insurance		33.4%
General population	2004	2008
Having outpatient contact last 12 months ¹	30.9%	31.0%
Having inpatient stay last 12 months ¹	7.1%	6.5%
Having health insurance ²	22.4%	37.9%
Having health insurance (2009) ²		53.6%

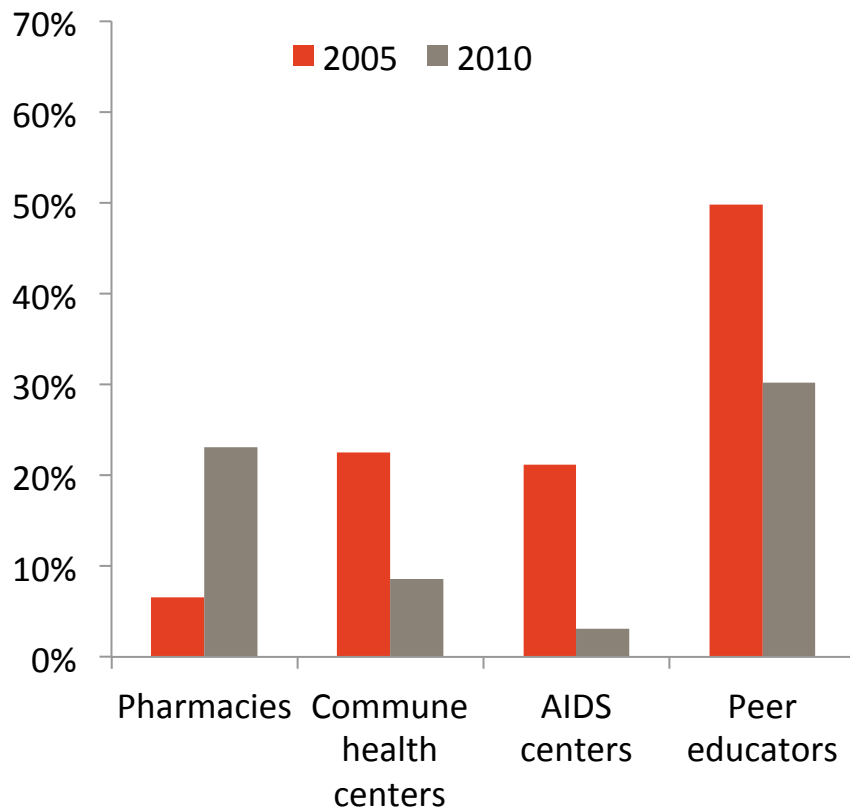
¹ Vietnam Household Living Standard Surveys

² Vietnam Social Security data

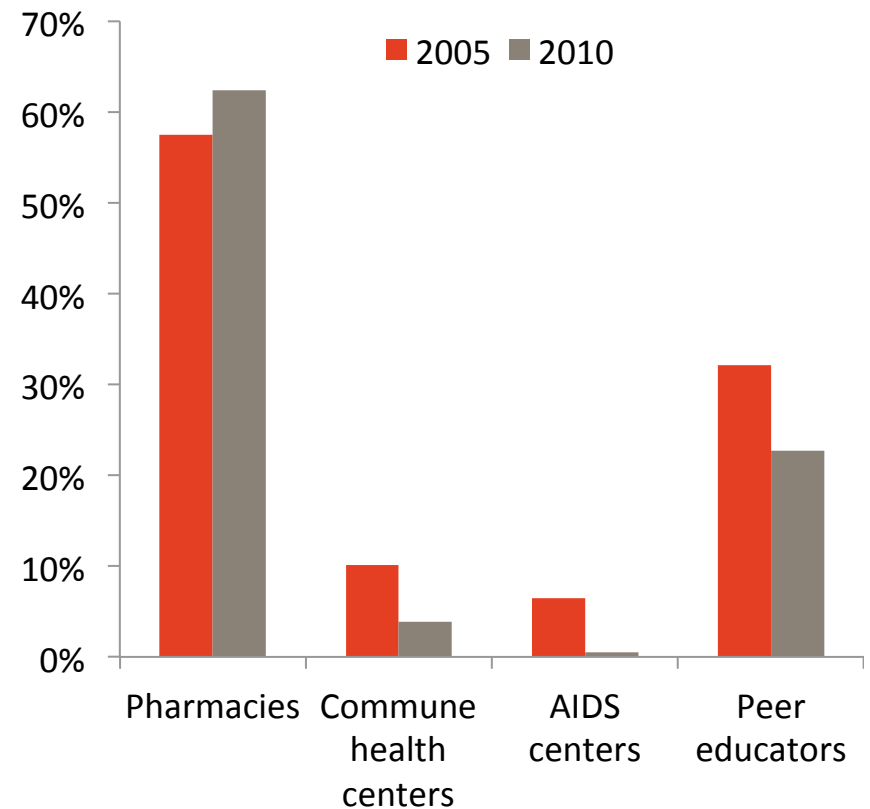
Role of pharmacies increased as a supply source for condoms and syringes



Condoms (n=847)



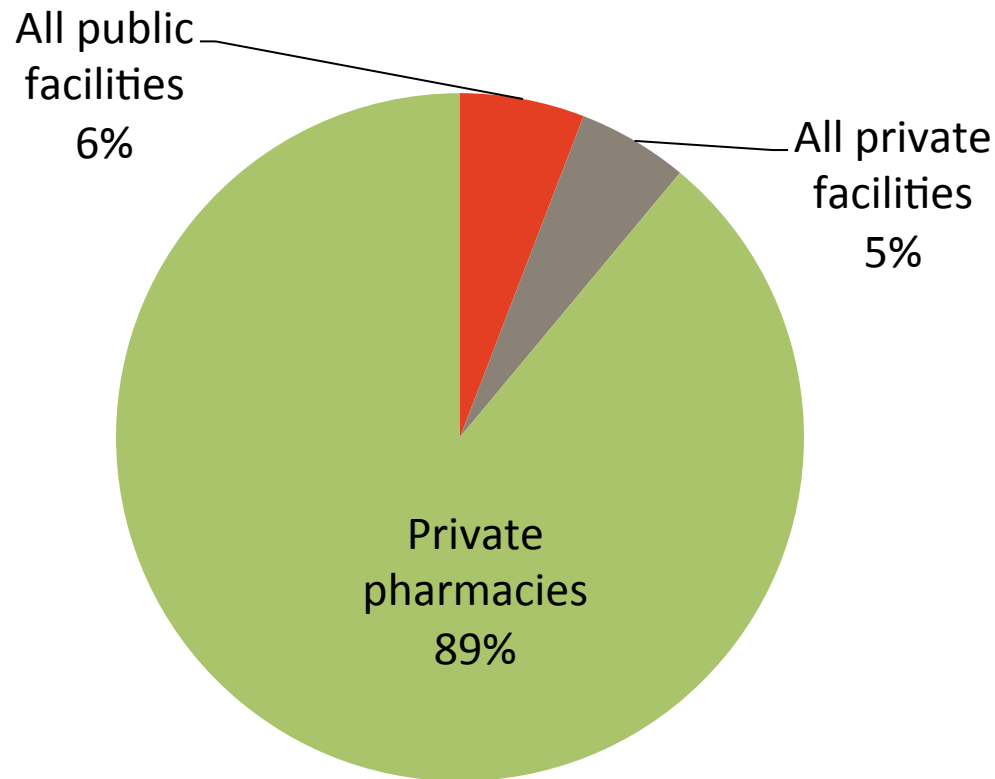
Syringes (n=353)



Private pharmacies are predominant source of supply for self-medication (2010)



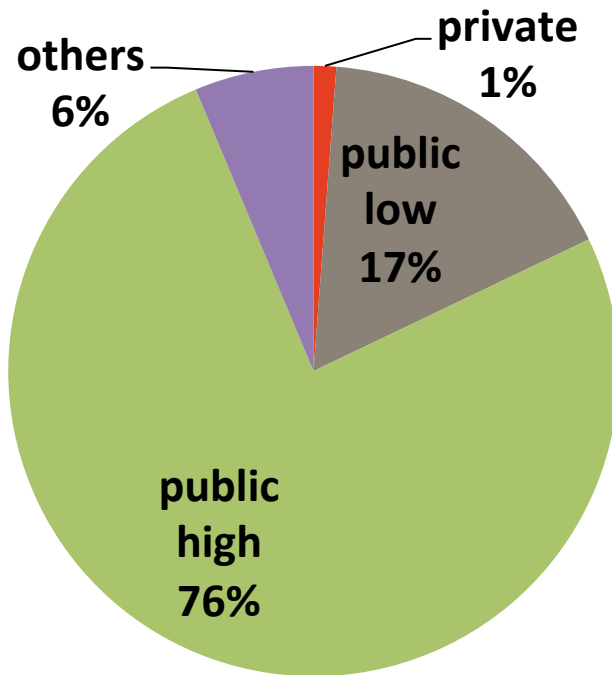
Source of supply for last self-medication contact 2010 (n=458)



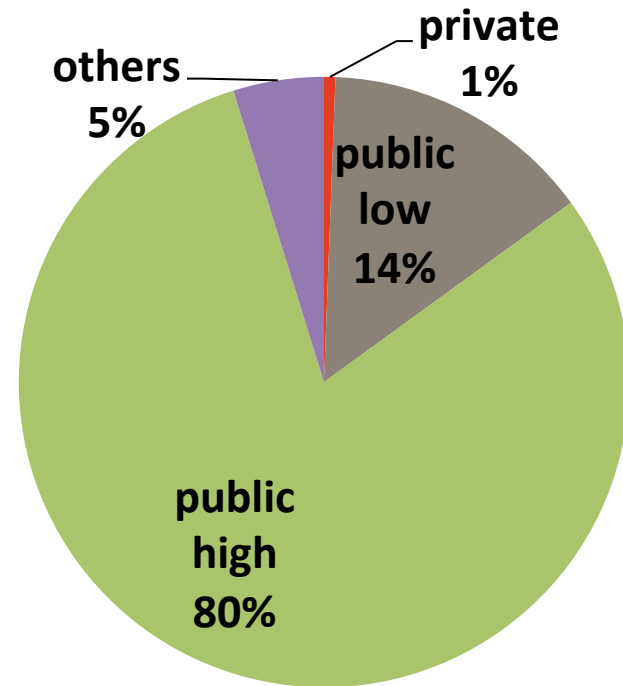
Share of PS in inpatient service remained insignificant



2005 (n=89)



2010 (n=187)

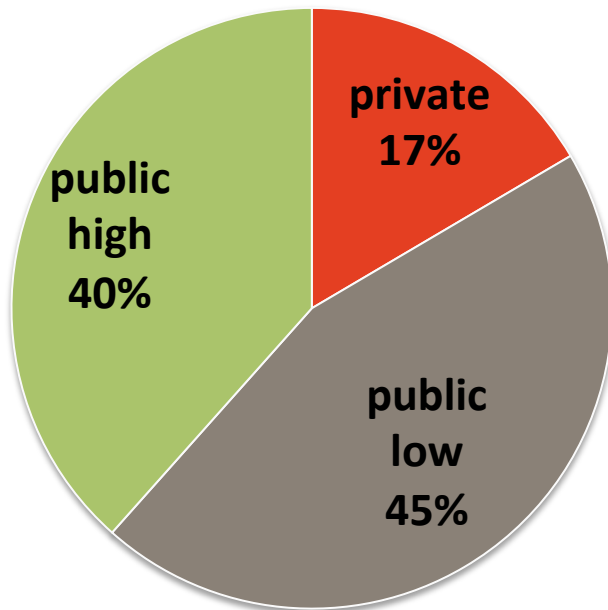


“Private” includes for-profit clinics and hospitals. “Public low” includes public facilities at commune and district levels. “Public high” includes public facilities at provincial and central levels.

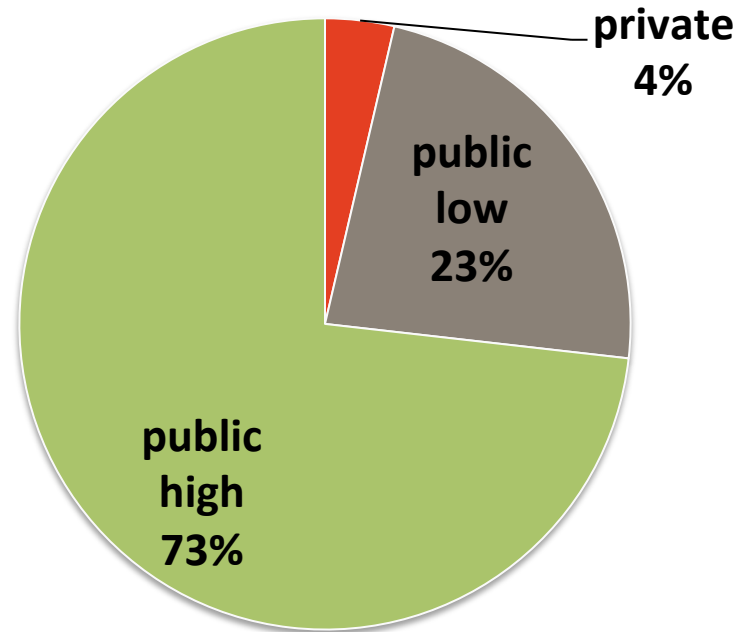
Share of PS in outpatient service reduced by 4 times during 2005-2010



2005 (n=802 contacts)



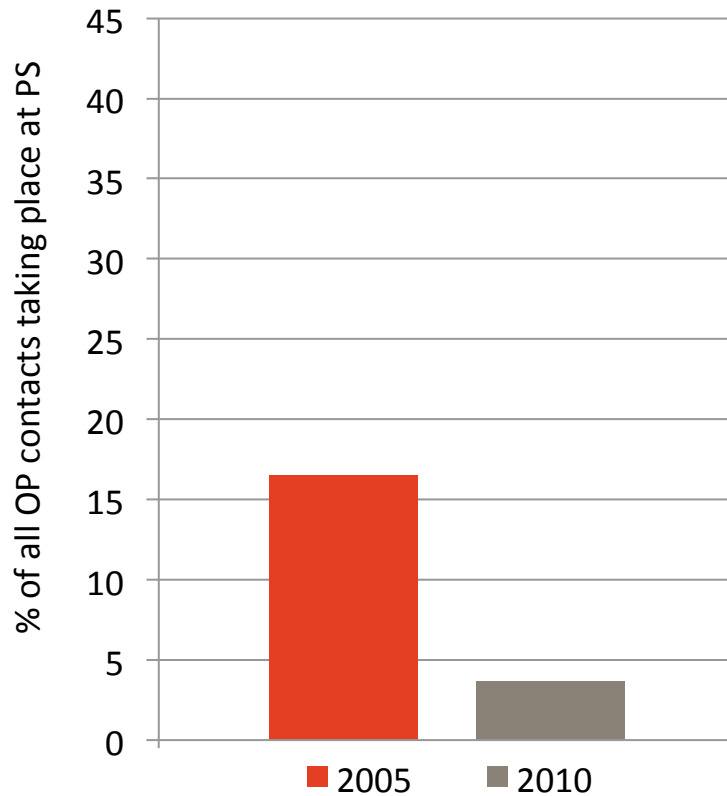
2010 (n=1167 contacts)



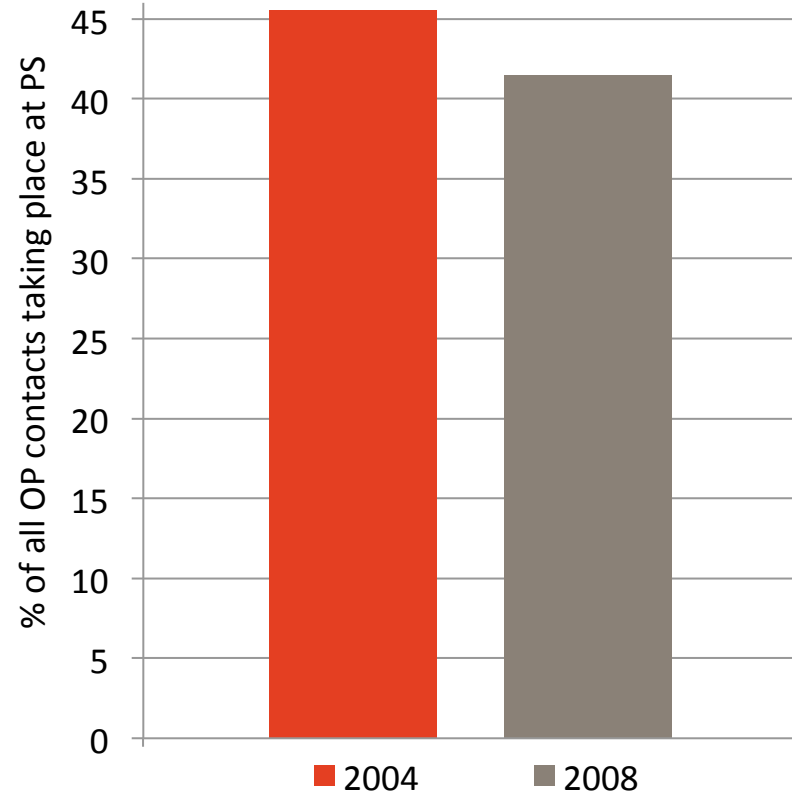
OP share of PS among PLHIV was smaller & reduced faster than among general pop.



PLHIV



General population*



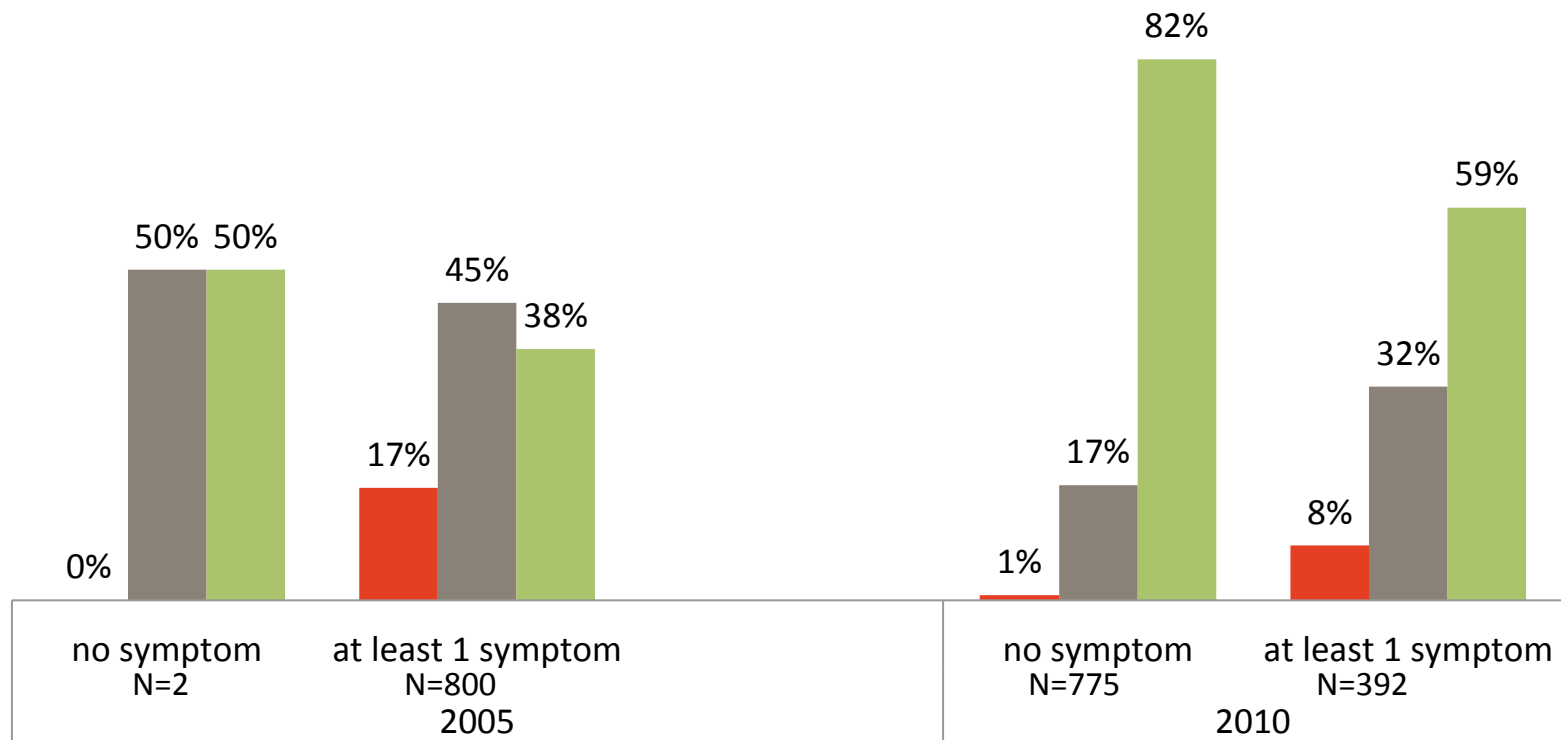
*Source: Vietnam Household Living Standard Surveys

OP use of PS is higher among patients with at least 1 health symptom



Source of OP contacts by presence of health symptom

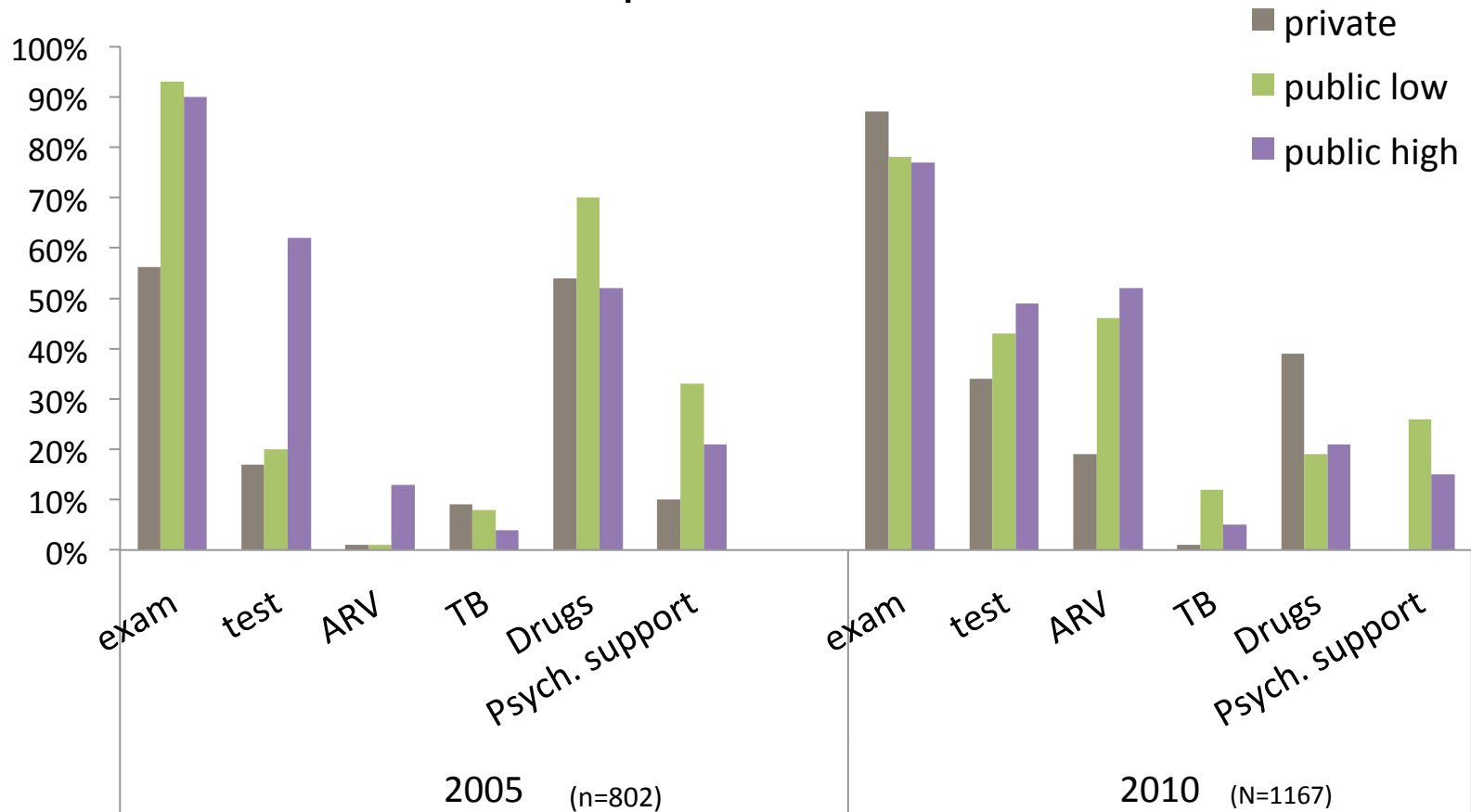
■ private ■ public low ■ public high



PS mainly provided exam, test, drugs, and ARV (2010)



Main services provided in OP contacts



Likelihood of choosing PS is significantly lower than public high, but not different from public low in 2010 vs. 2005



	Public low level	Public high level
Year 2010	0.68 (0.34 – 1.37)	2.80 (1.33 – 5.89)***
On ARV	0.78 (0.44 – 1.36)	1.83 (0.99 – 3.37)*
Ill last 4 weeks	0.47 (0.25 – 0.86)**	0.61 (0.31 – 1.20)
>1 symptoms	0.70 (0.43 – 1.15)	0.83 (0.49 – 1.41)
Month since tested positive	0.99 (0.98 – 1.00)*	1.00 (0.99 – 1.00)
Education: secondary	1.90 (0.99 – 3.62)*	1.39 (0.70 – 2.78)
Education: >= high school	1.46 (0.41 – 5.18)	1.45 (0.42 – 4.97)
Central region	21.94 (2.57 – 187.33)***	8.57 (0.98 – 74.89)*
Southern region	2.04 (1.20 – 3.46)***	0.78 (0.44 – 1.40)
Male, age, wealth	Not sig	Not sig

Base choice for comparison is “Private.” Figures are Relative Risk Ratios and 95% CI obtained from multinomial logistic regression. *** $p < 0.01$; ** $p < 0.05$; * $p < 0.1$. sample includes people with at least 1 symptom (N=1192)

Summary of main findings



- PS plays a significant role in supplying condoms and syringes for PLHIV, drugs purchased over-the-counter (2010), while negligible role in inpatient care;
- The role of PS in outpatient service for PLHIV is small and reduced over period 2005 – 2010, particularly in comparison with public high level;
- Choice of PS is higher among patients with at least 1 health symptom;
- Main types of services provided by the PS included exam, test, drugs, and ARV (2010).

Discussion



- Possible reasons for observed trends in PS use:
 - The samples are biased toward people accessing public services;
 - The increasing availability of ART and subsidized OI treatment services for PLHIV is virtually exclusive to the public sector.

- Questions for discussion:
 - Is exclusive investment in public sector for ART and OI treatment an optimal solution in terms of efficiency and accessibility?
 - What is the opportunity cost in widespread expansion of ART sites within public facilities, especially high level?
 - What are cost and quality concerns when private practitioners provide ARV at cost against regulations?
 - Can private facilities be accredited to provide selected services for PLHIV at subsidized price, like the public facilities?