

# GHESKIO in the fight against AIDS/Violence/Poverty

Center for Global Development

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WDC, December 4, 2009

# Outline

- Background and Context
- GHESKIO Mission and impact
- GHESKIO expansion of services and IMIS
- Perspectives

# Central America and the Caribbean



# Haiti

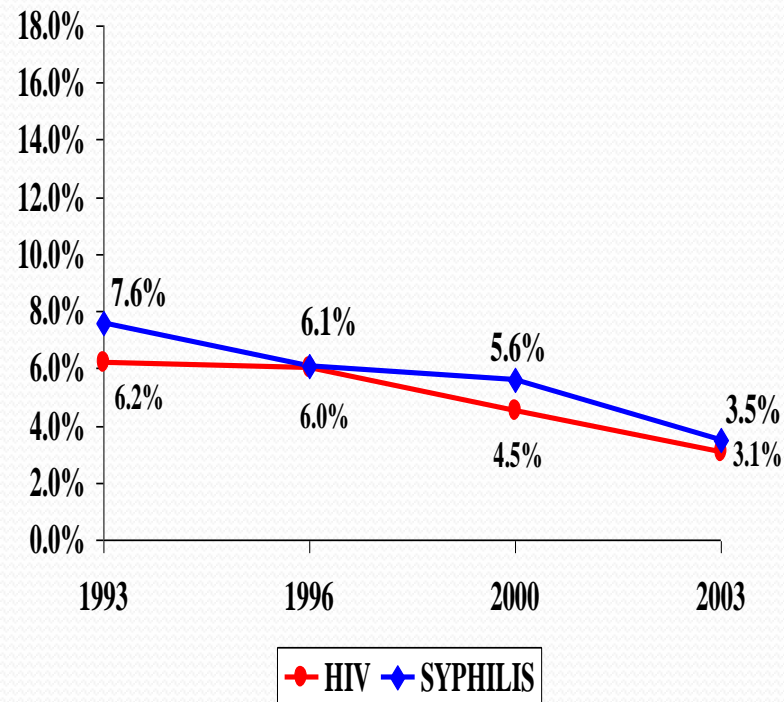
- Population: 9,400,000
- Maternal mortality rate: 642/100,000
- Majority (80%) of women deliver outside a health care setting
- Infant mortality rate: 74/1,000
- HIV vertical transmission rate estimate at 30% without intervention.
- Life expectancy at birth: 60.78 yrs
- 50% of population earns less than \$2.00/day
- MD/10,000 inhabitants ratio : 2.5

# Background

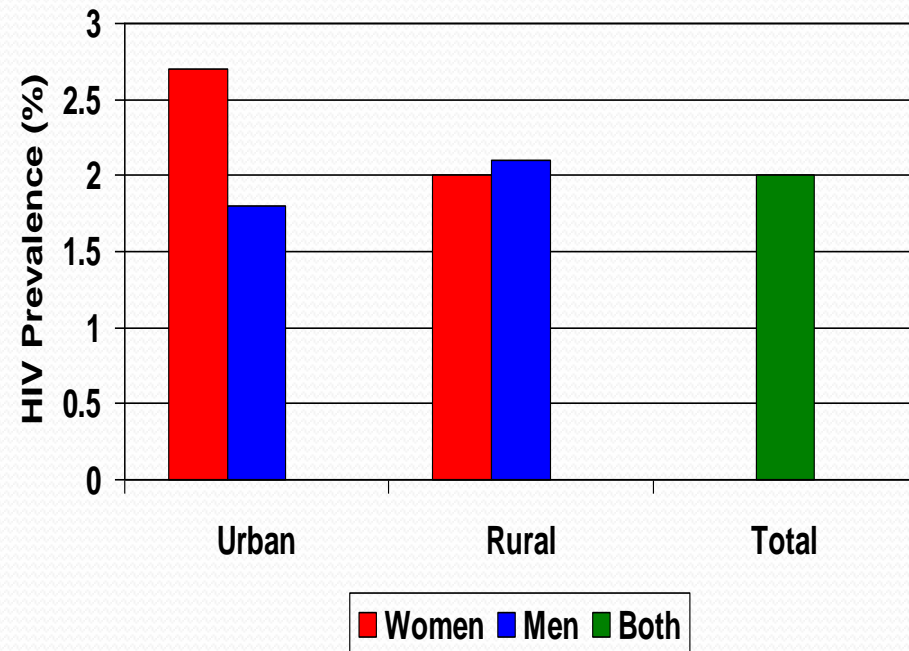
- It is the most affected country by HIV after those in Sub-Saharan Africa.
- It is estimated that there are up to 235,000 adults and as many as 11,800 children are living with HIV/AIDS.
- Approximately 3% of the women visiting prenatal clinics are HIV (+)

# National HIV Seroprevalence studies in Haiti (1993 – 2006)

National HIV and syphilis  
Seroprevalence 1993-2003\*



National HIV seroprevalence: DHS  
(2005-2006)\*\*



\*Pregnant women at 1<sup>st</sup> prenatal visit

\*\*5250 women and 4855 men

# Profile of GHESKIO Centers

- Institution Created in 1982
- Recognized as “Public Utility” in 1996
- Strong partnership with public sector and other private institution (Universities, other NGO)
- National Referral Center for HIV/AIDS/TB/STI/F.P
- **Mission:** Provide **services, training** of medical and paramedical personnel, and operational **research**

# GHESKIO/MOH comprehensive model with integrated services

**STI Management**

**Post-HIV exposure  
Counseling and  
HAART**

**Pre-test Counseling  
HIV, Syphilis, Tuberculosis**

**Post-Test Counseling**

**Reproductive  
Health Services  
(family planning and prenatal care)  
HIV+ women  
Prevention HIV MTCT with HAART**

**Same day  
TB screening / Rx / Px**

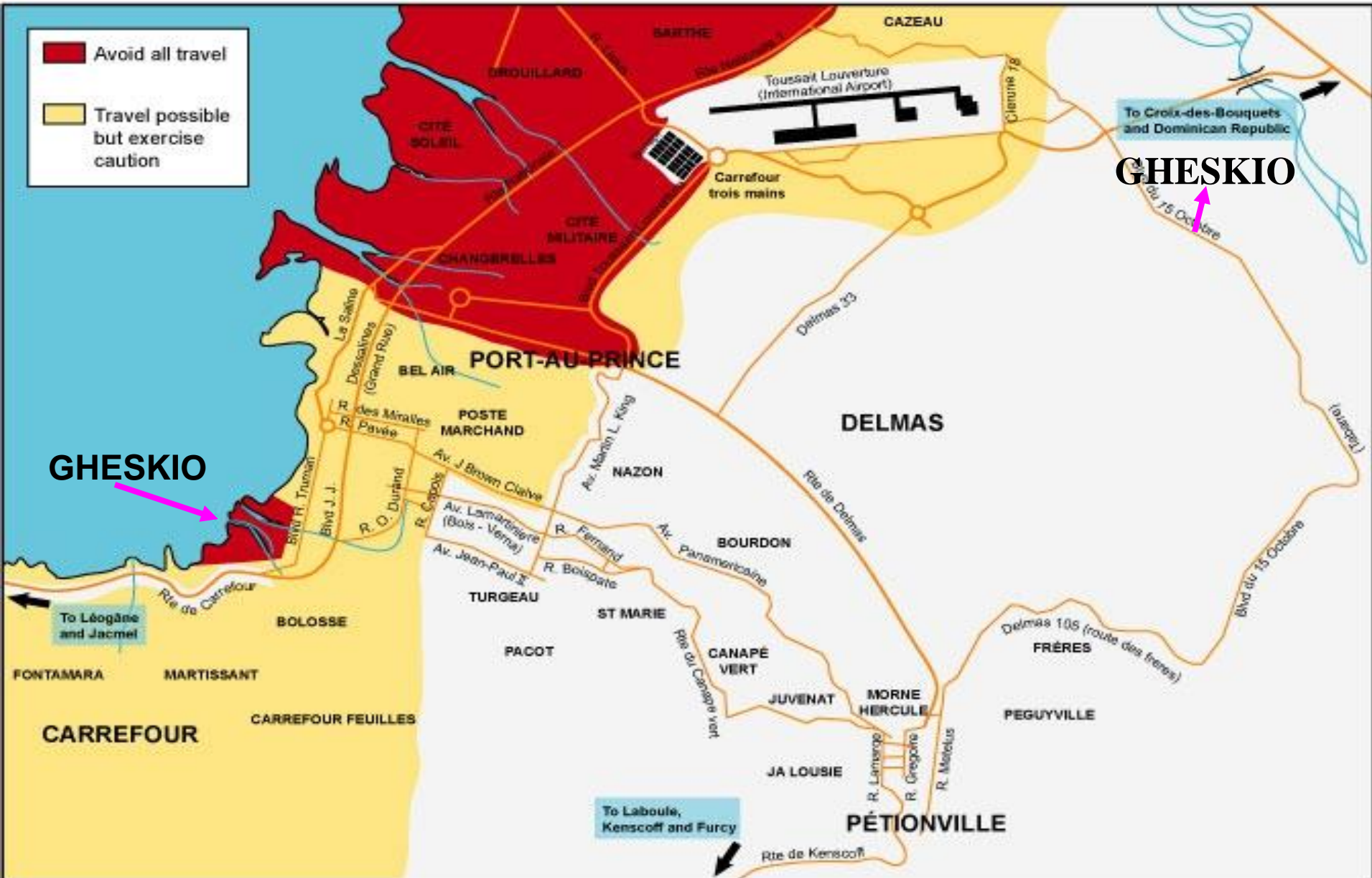
**Care to HIV infected individual /  
affected family**

- **OI Rx/Px**
- **HAART for AIDS or CD4 count  $\leq$  200**
- **Nutritional support**
- **Psychosocial support**

**Rx = Treatment  
Px = Prophylaxis**



# Map of greater PORT-AU-PRINCE

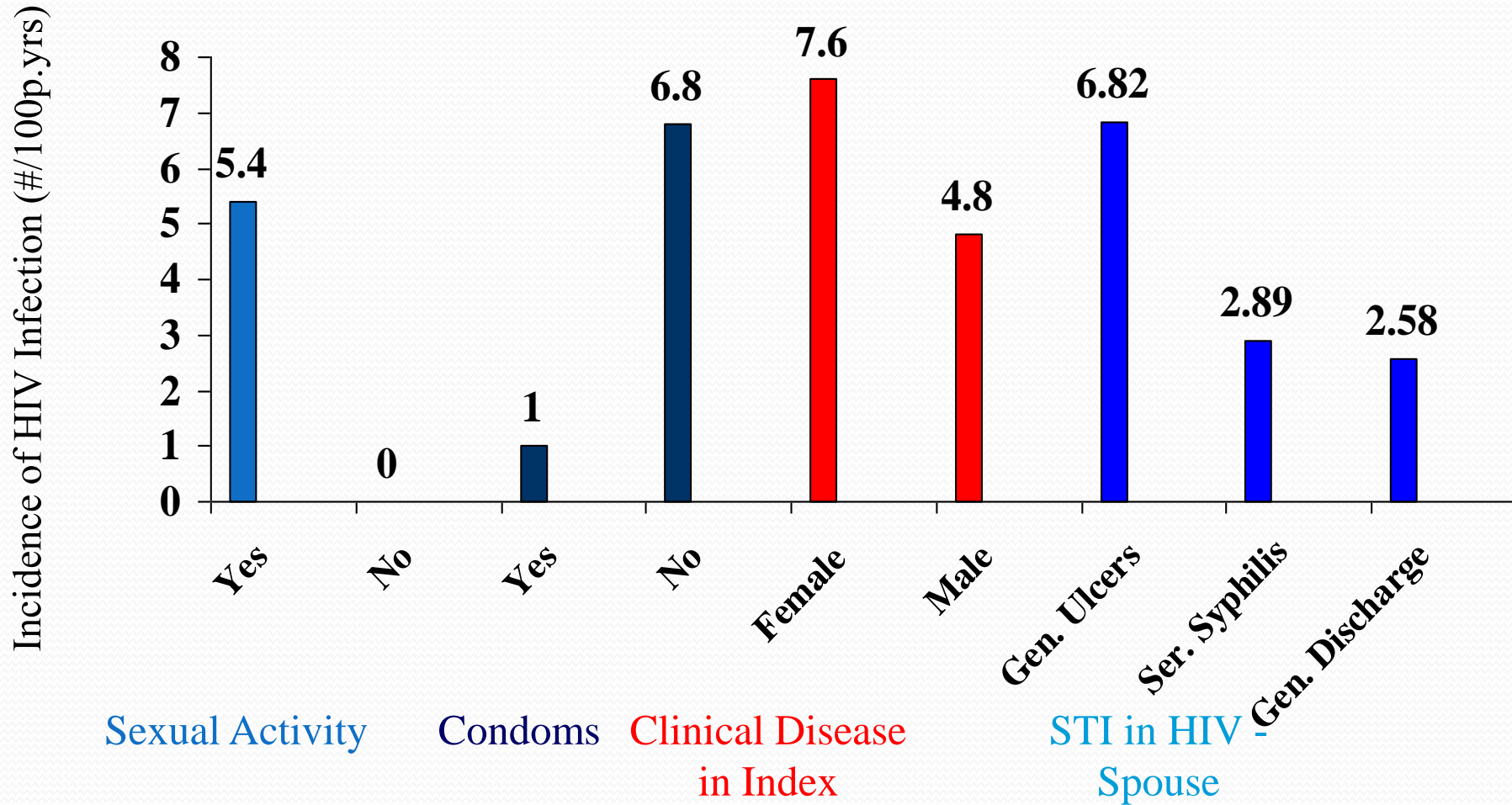


# The GHESKIO Institute of Infectious Diseases and Reproductive Health (GHESKIO-IMIS)

February 10, 2009



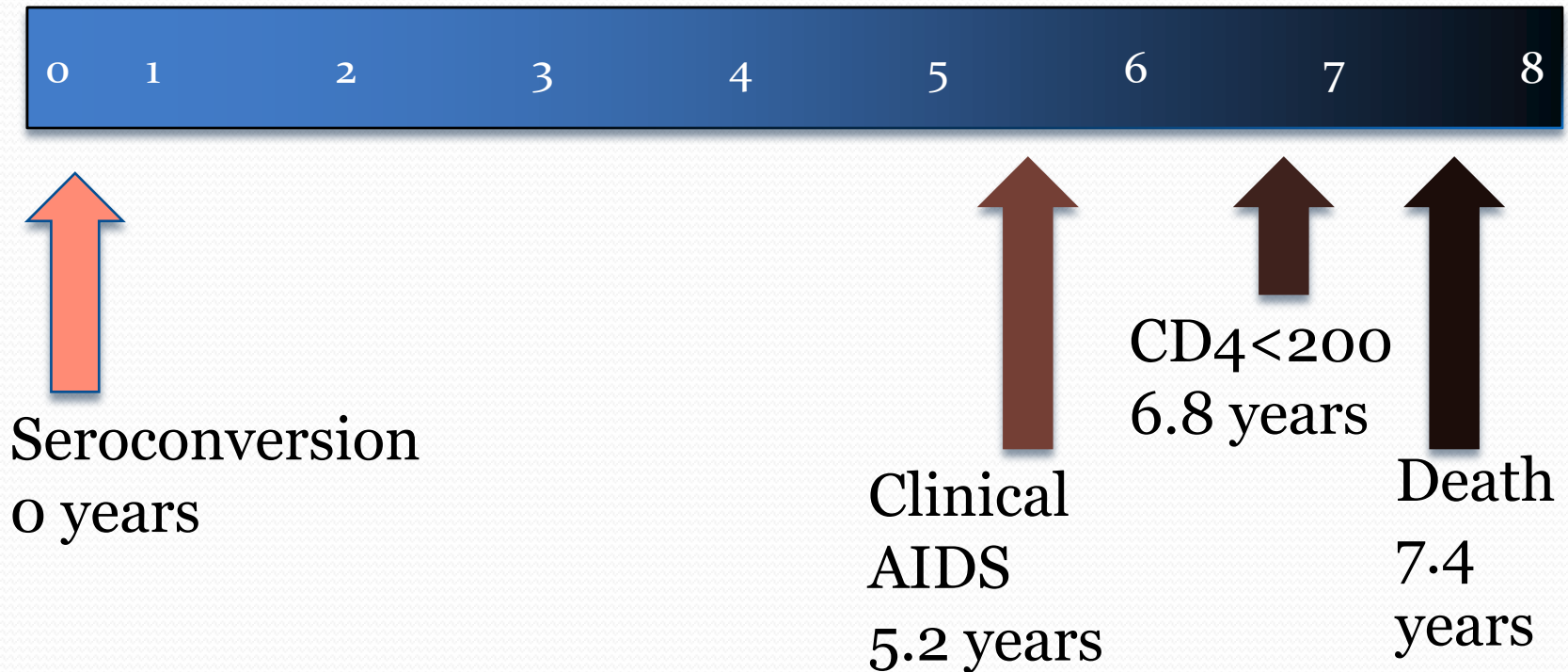
# Heterosexual Transmission of HIV infection in 475 Discordant Couples



Deschamps MM, Pape JW, Hafner A and Johnson WD Jr. Heterosexual Transmission of HIV in Haiti. *Ann Intern Med*;125:324-330, 1996.

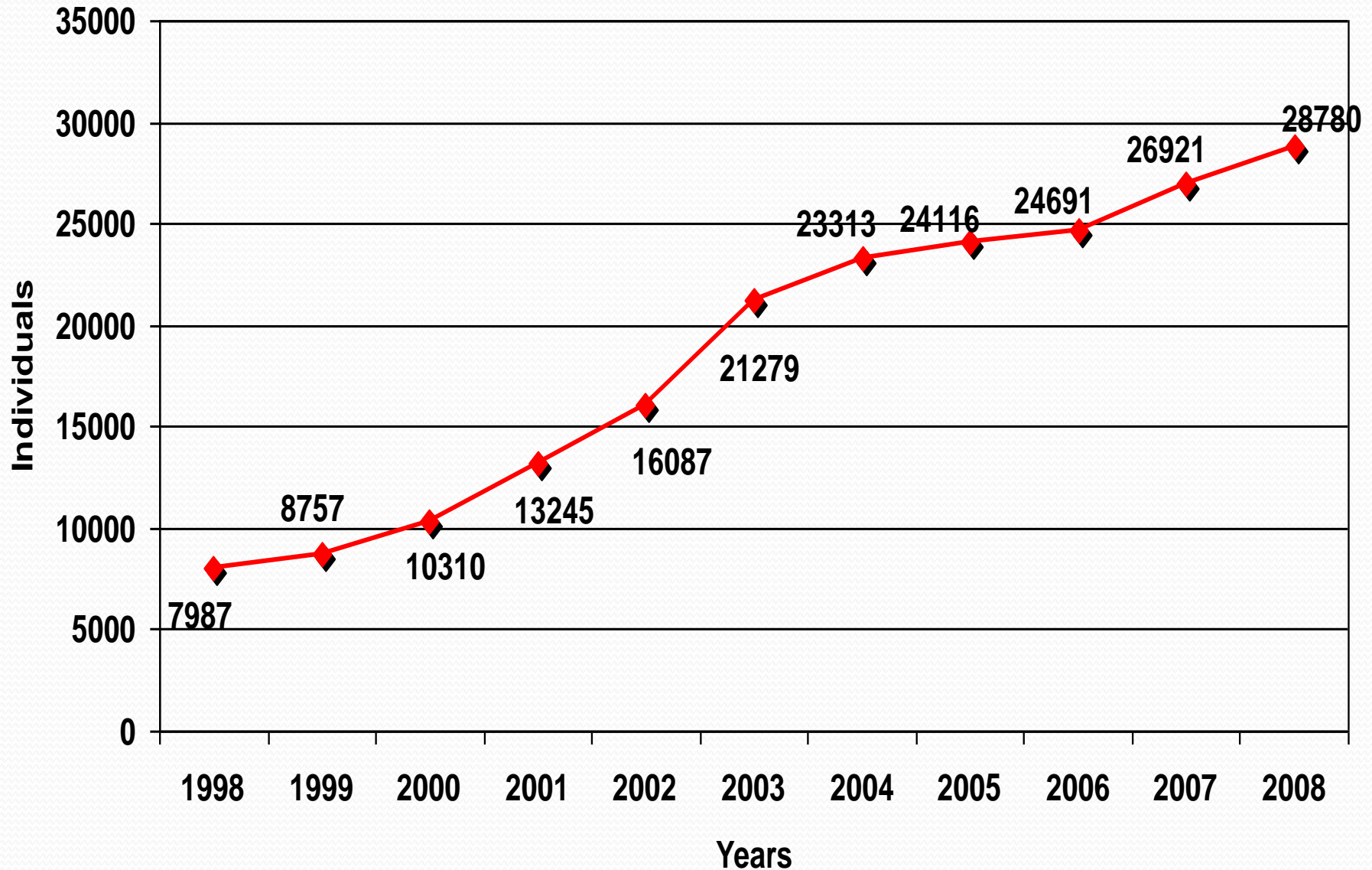
# Background and Context | Haiti and HIV

AIDS in Haiti characterized by rapid progression

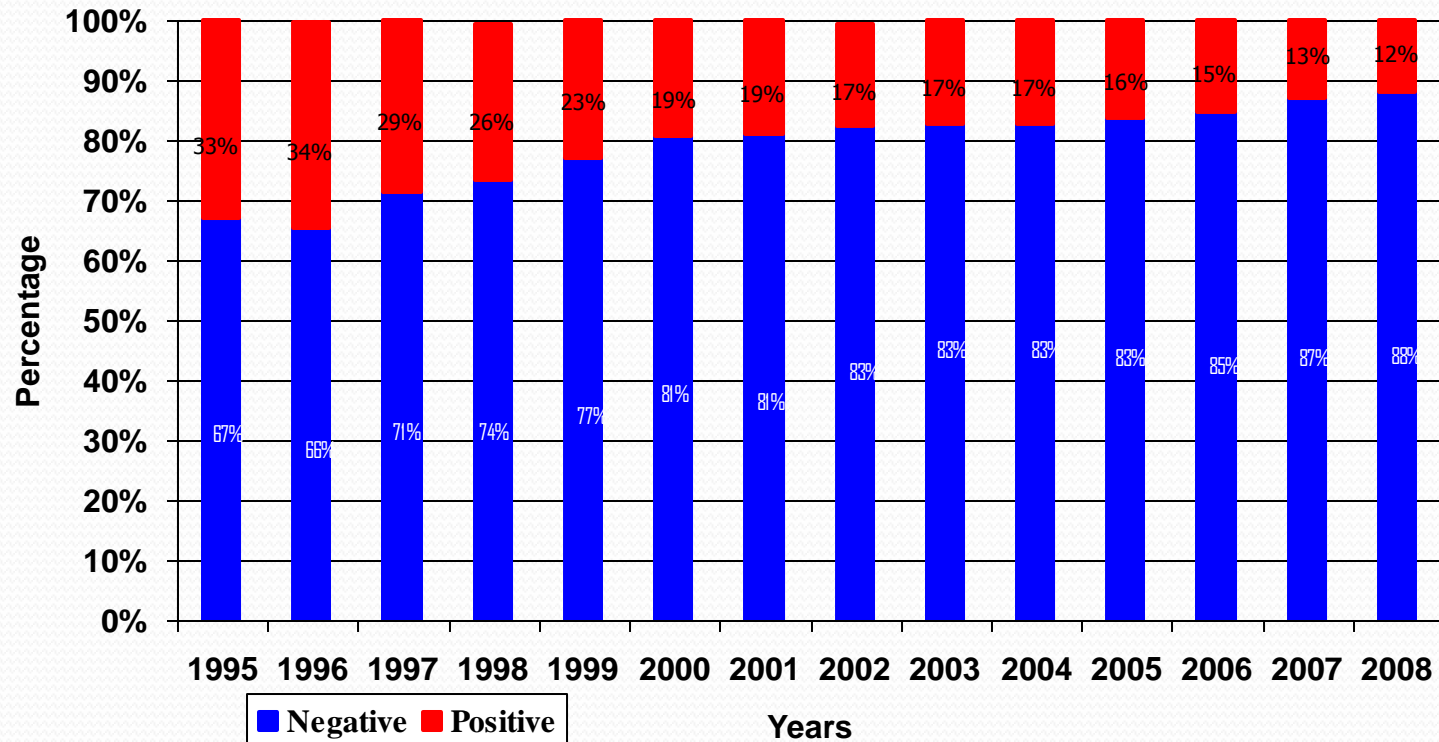


Source: Deschamps, M. et al. HIV infection in Haiti: Natural History and Disease Progression. *AIDS* 2000, 14:2515-2521 .

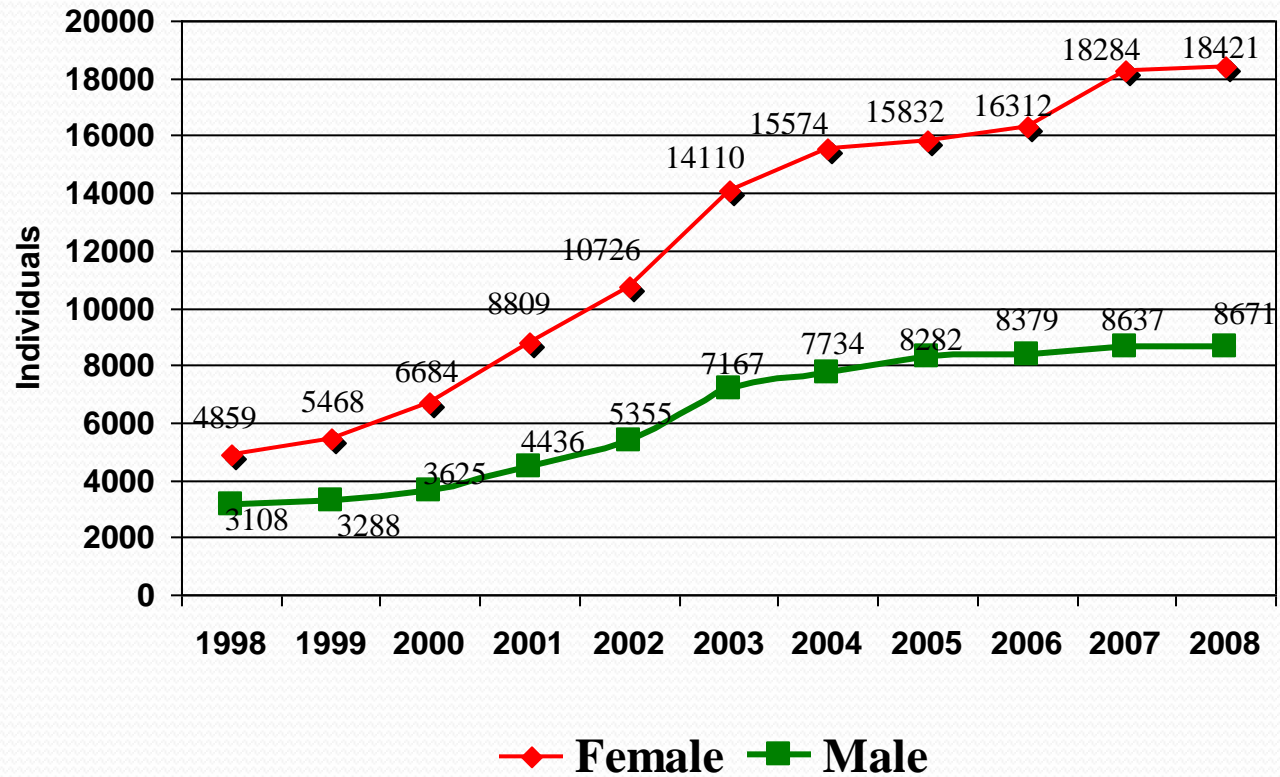
# New individuals tested for HIV at GHESKIO (VCT Center)



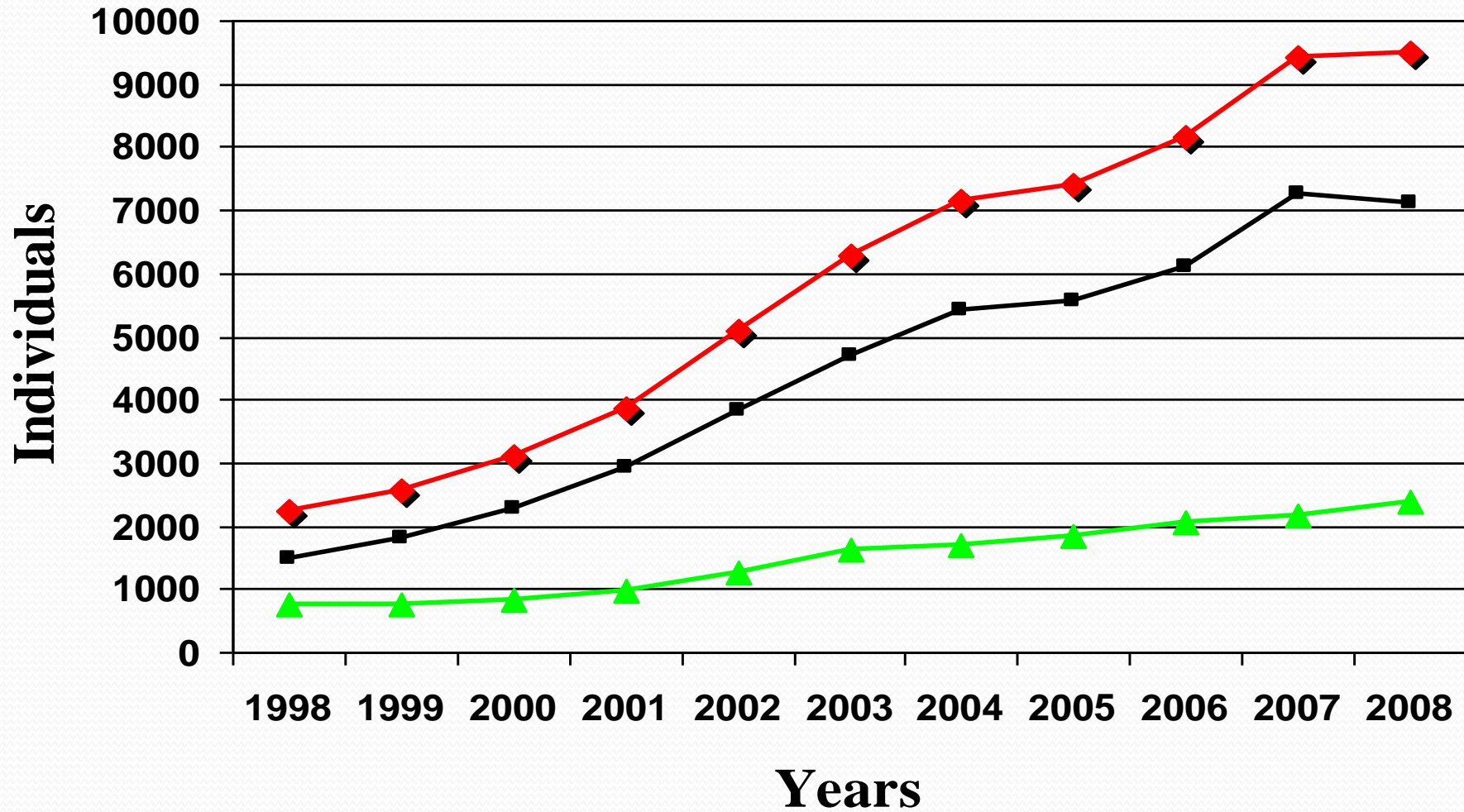
# HIV prevalence among new individuals tested for HIV at GHESKIO (VCT Center)



# New individuals tested for HIV at GHESKIO (VCT Center) by sex



# New youth people\* tested for HIV at GHESKIO (VCT Center)

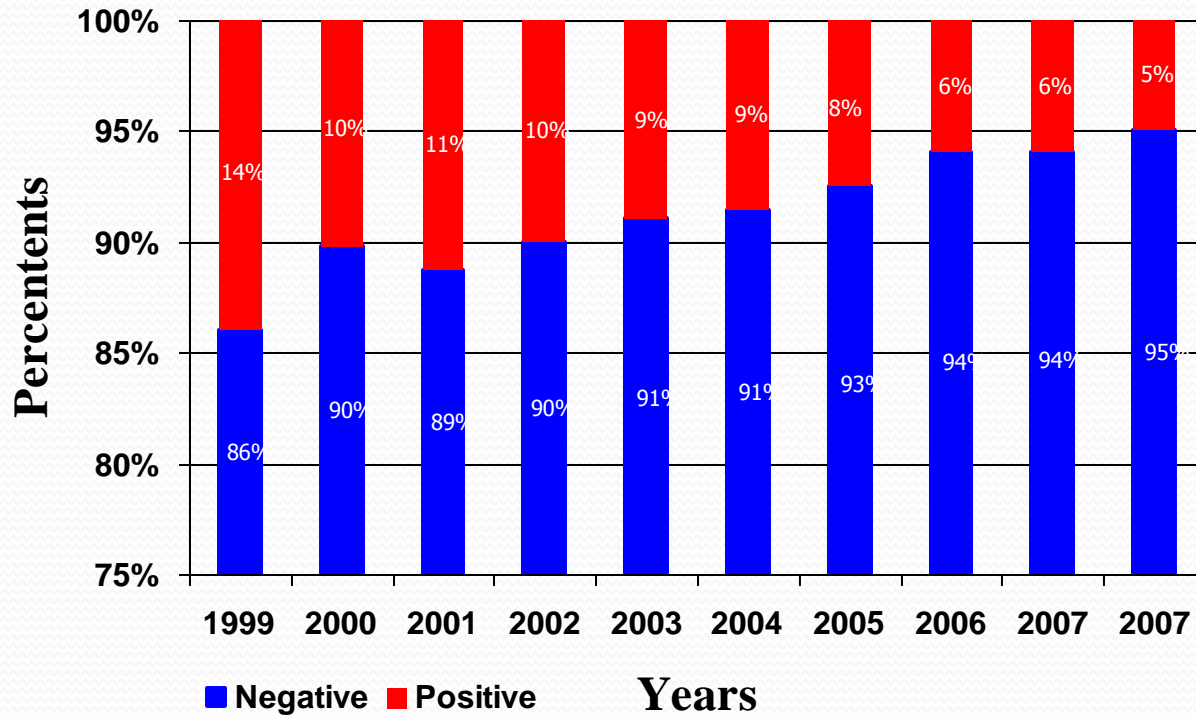


\*Individuals from 10 to 24 years old

◆ Population ■ Women ▲ Men

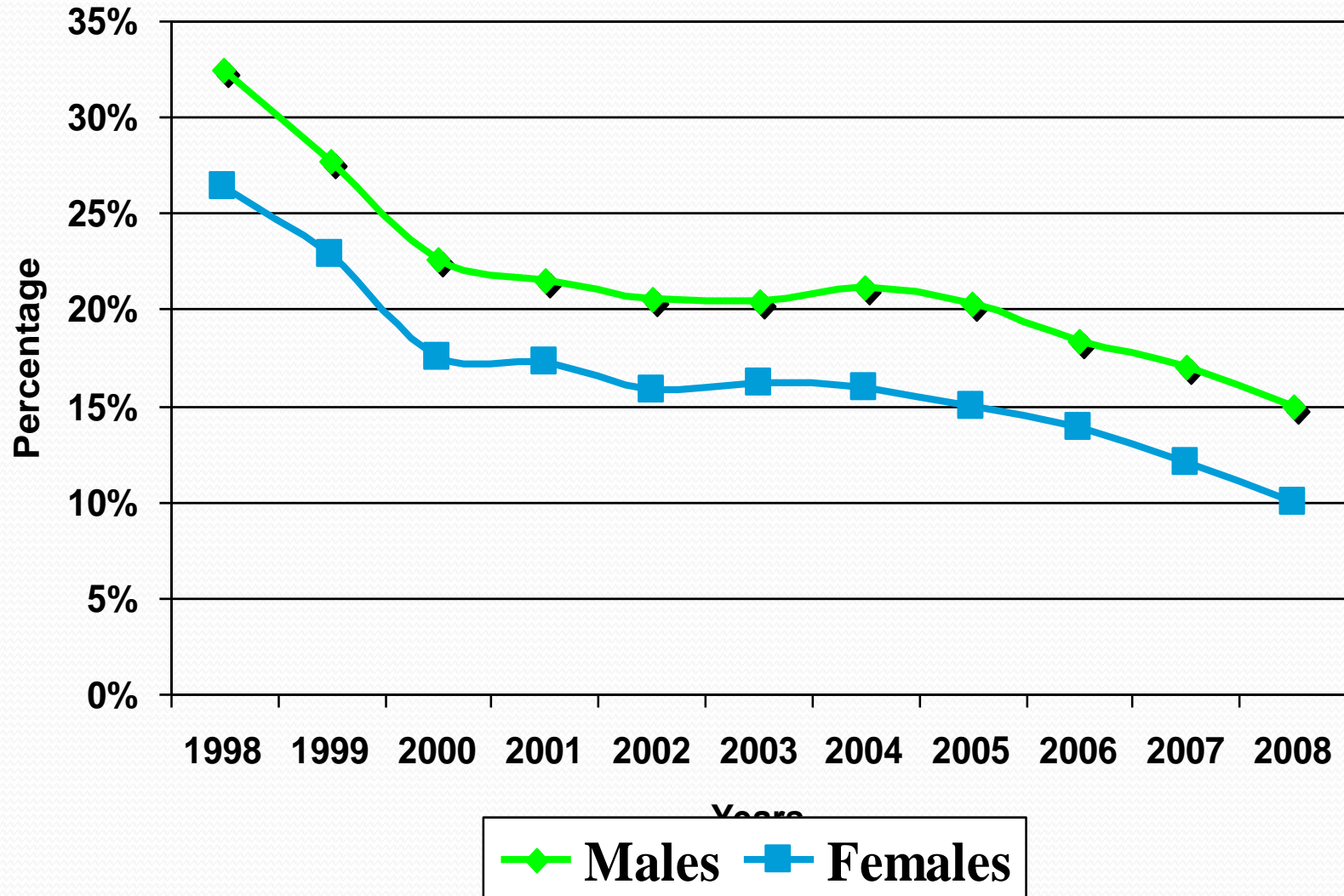


# HIV Prevalence among new youth people\* tested for HIV at GHESKIO (VCT Center)

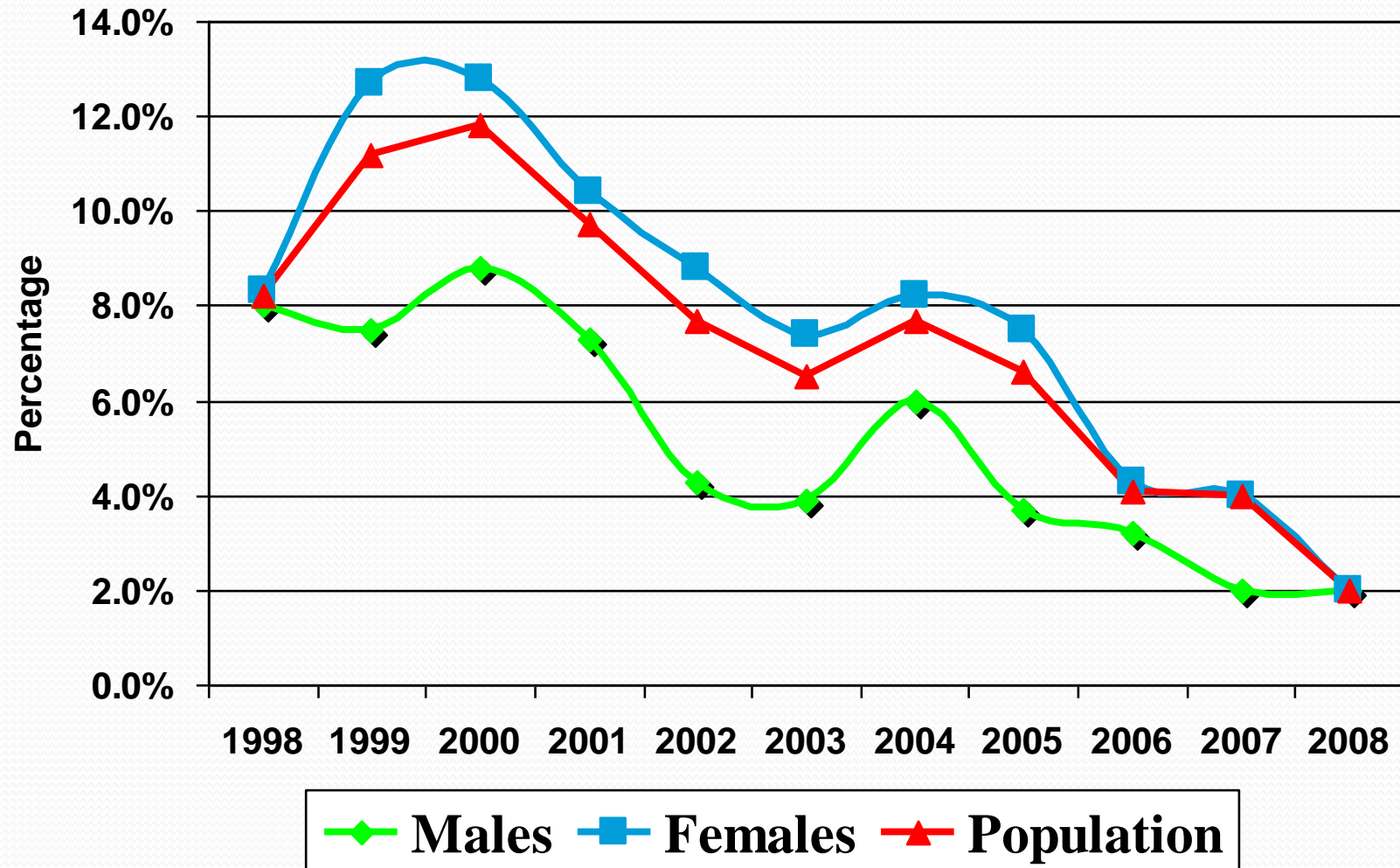


\*Individuals from 10 to 24 years old

# HIV Prevalence among people tested at GHESKIO (VCT Center)



# Syphilis prevalence among Adolescents and young adults\* tested at GHESKIO (VCT Center)



\*From 10 to 24 years old

# Prevalence of HIV among street children examined at GHESKIO, per age group

Age Group (Year)	Women %	Men %	Total %
15 - 19	19	5.5	10.4
20 - 24	24.2	22	24
Total	15	5.6	9.2

# Knowledge and Behavior of the Youth visiting the GHESKIO Centers

n=4,113

- 85 % were self referred
- 67% of the boys and 56% of the girls are in secondary school
- 85% of them are informed of HIV/AIDS through radio and TV broadcasts
- 48% of the boys and 74 % of the girls had their first sexual experience when they were 15-19 years old.
- Only 19 % of the girls and 21% of the boys used a condom during their first sexual experience.

# Knowledge and Behavior of the youth visiting the GHESKIO Centers ( cont.)

- 90% of both boys and girls know that condoms protect.
- Only 9 % of the girls and 25% of the boys regularly use condoms
- 38% of the boys and 5 % of the girls had more than one sexual partner during the last 6 months
- 24% of the boys and 33 % of the girls had a previous STI
- Only 14% of the boys and 9% of the girls think they are at risk for HIV.

# Behavioral Changes among Young Adults in Haiti

	15 – 19 Y/O		15 – 19 Y/O		20 - 24 Y/O		20 - 24 Y/O	
	Males		Females		Males		Females	
	1999	2003	1999	2003	1999	2003	1999	2003
Excellent Knowledge of AIDS	24	54	26	45	29	60	33	54
Sex with occasional Partner	50	12	31	2	60	20	52	2
Condom use at last Contact	50	52	37	25	48	63	36	88

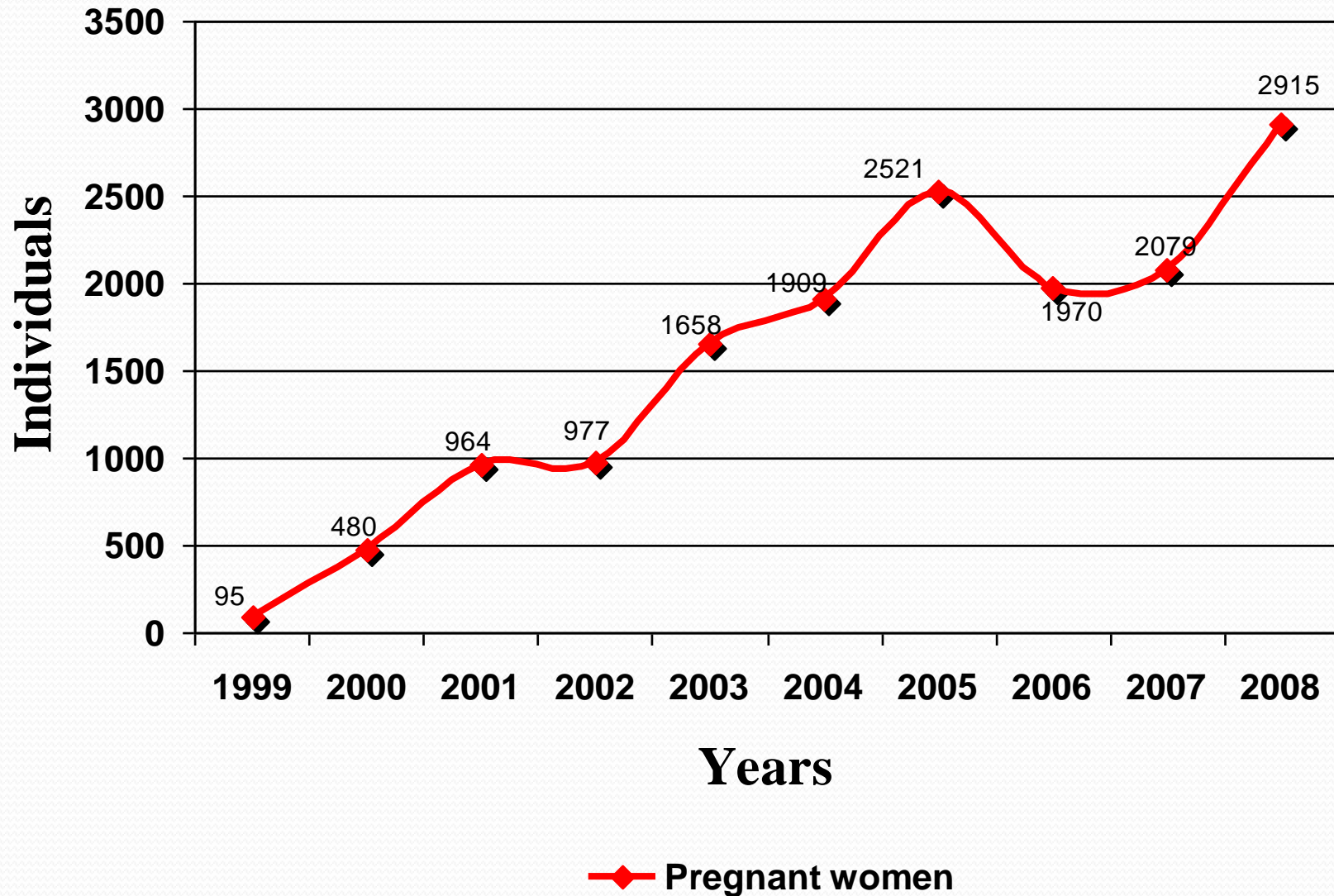
# Survival and Response to ART

	Adults (910)	Children (191)	<b>Adolescents (146)</b>
12 month survival	87%	81%	<b>87%</b>
Viral load <50	76%	56%	<b>49%</b>

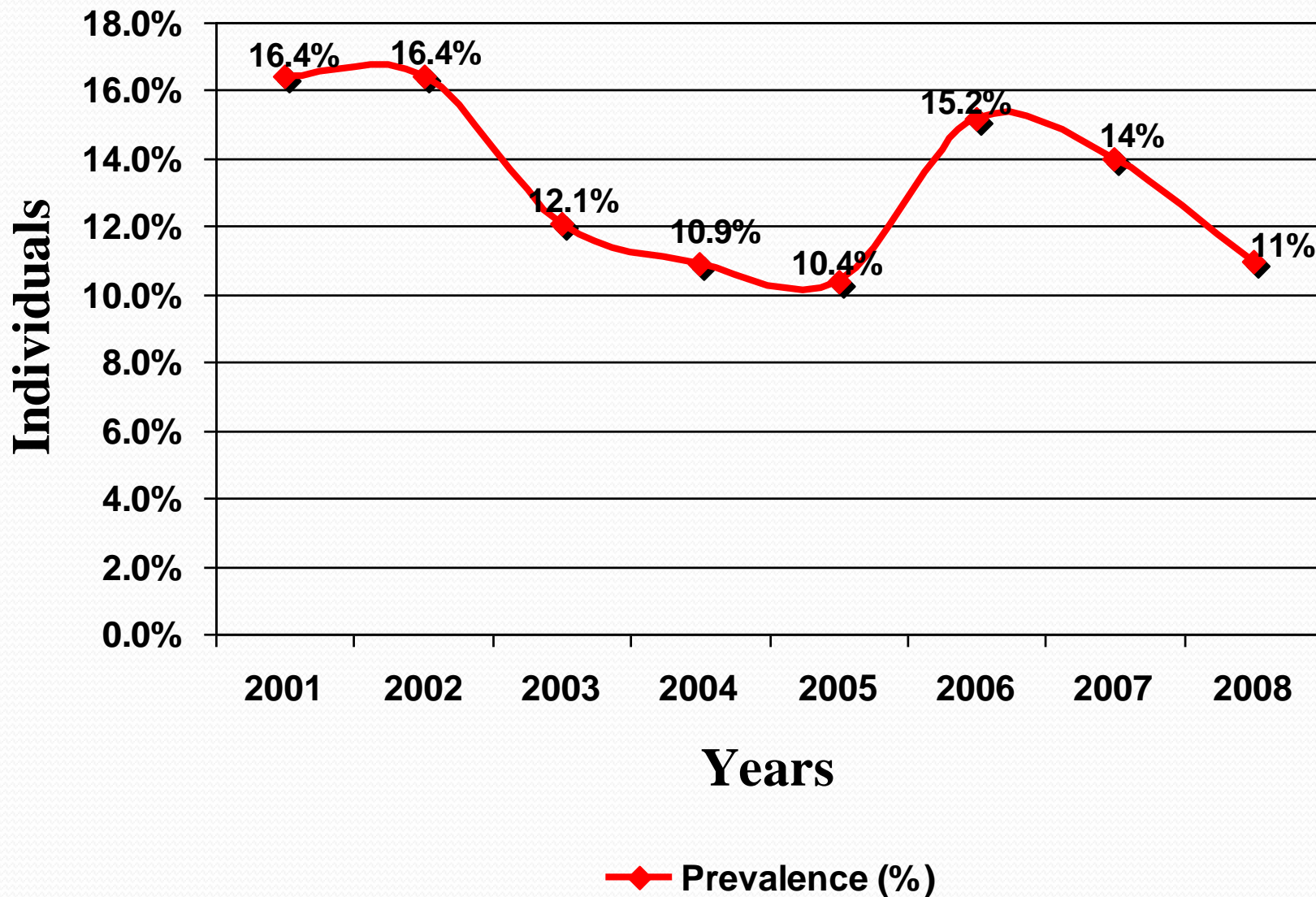
Severe et al. N Eng J Med 2005; 353:2325-34. George et al. J Infect Dis 2007; 185:1411-8.  
Charles et al. 2007; Submitted.



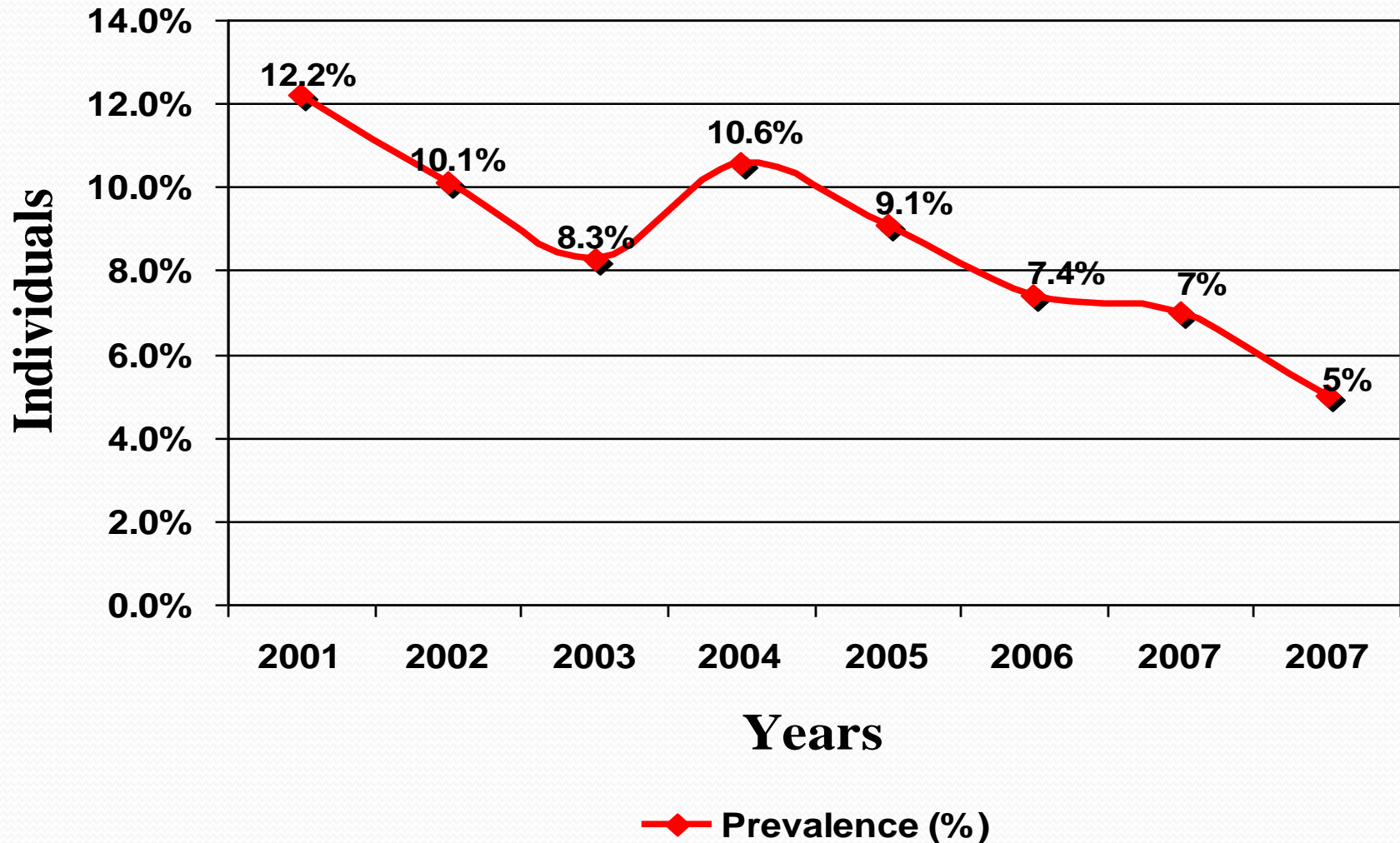
# Pregnant woman tested for HIV at GHESKIO (VCT Center)



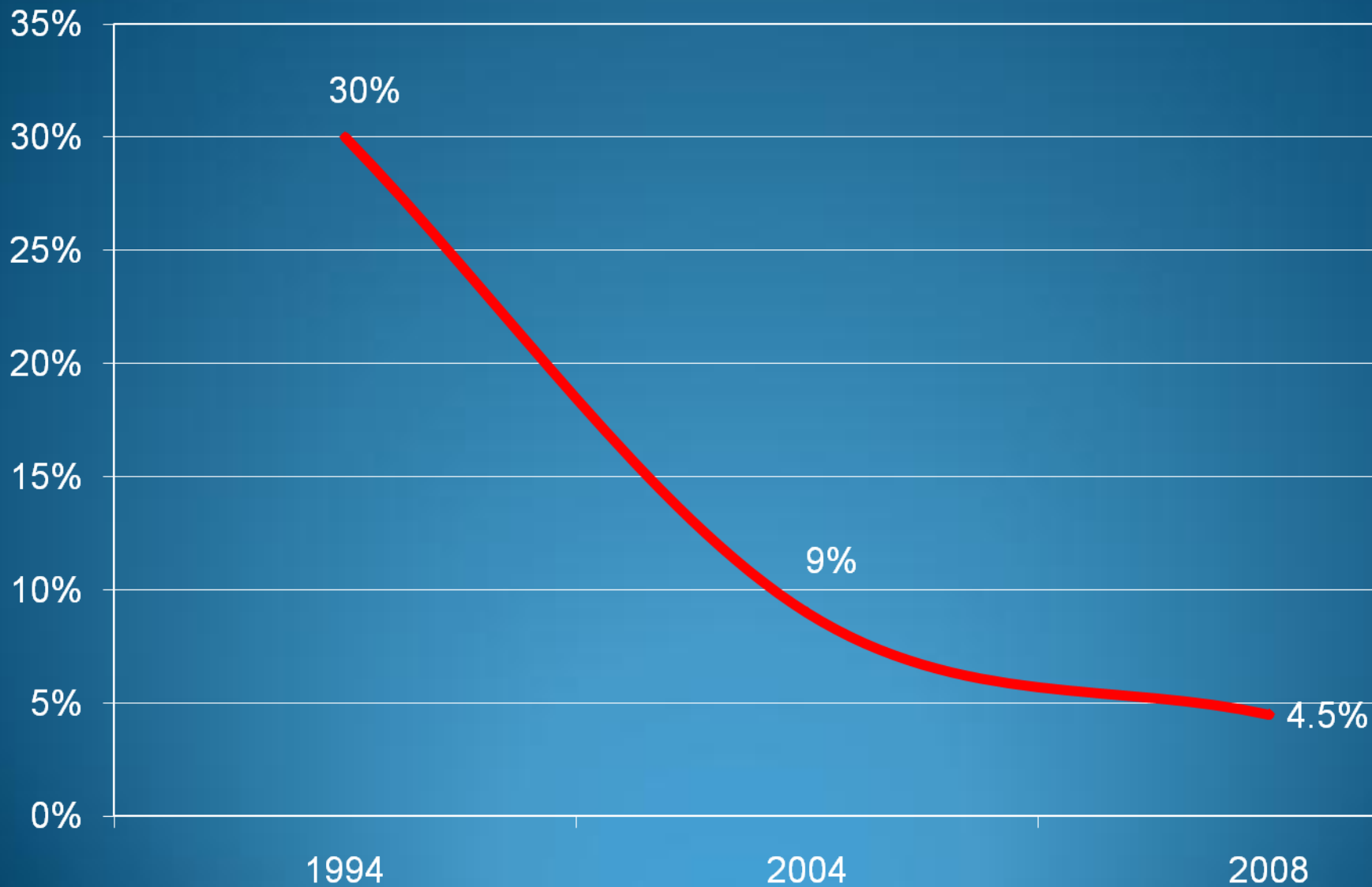
# HIV prevalence among Pregnant woman tested at GHESKIO's VCT center



# Syphilis prevalence among Pregnant woman tested at GHESKIO's VCT center

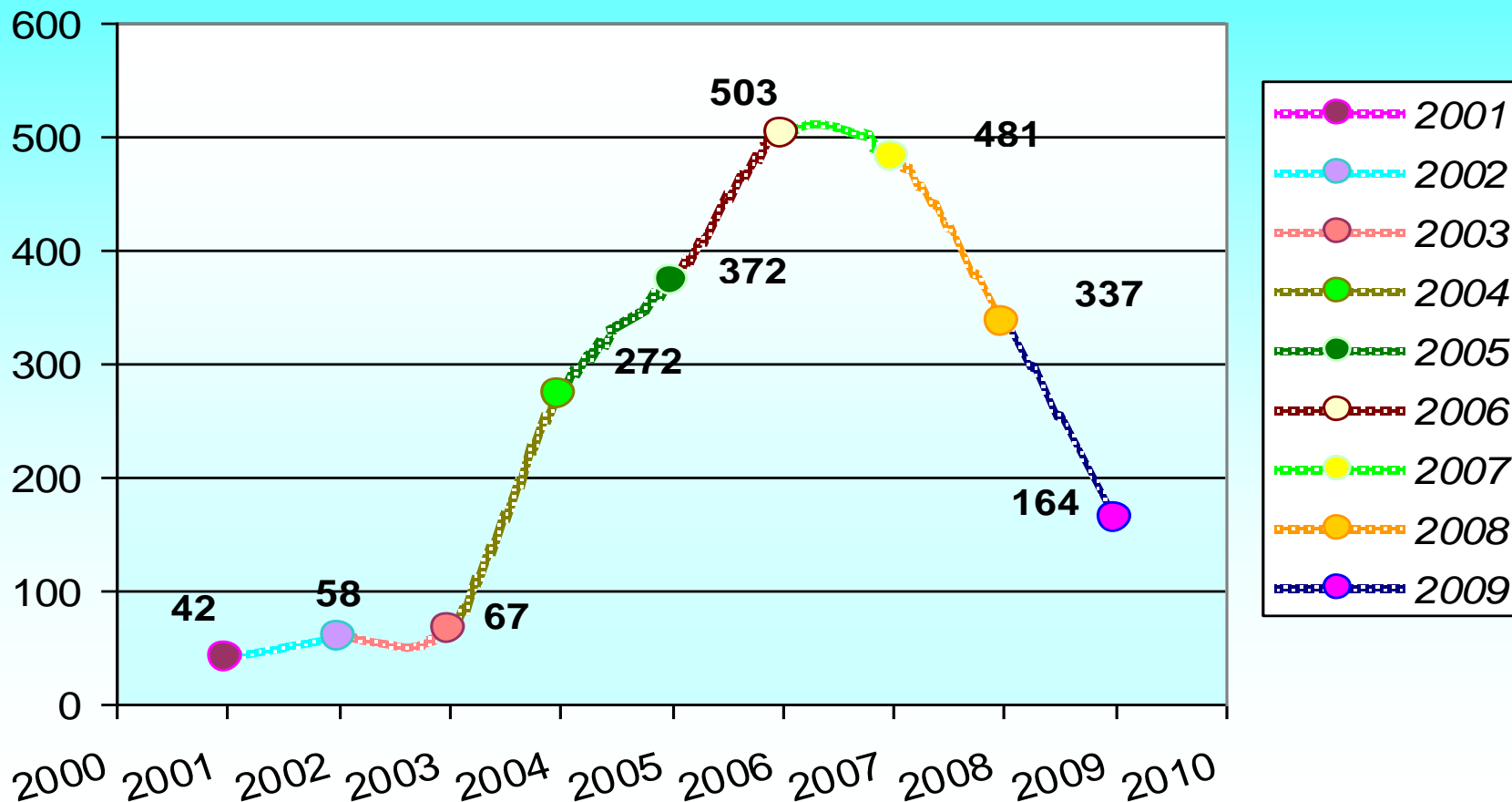


# Mother to child HIV transmission curve



# PROGRESSION ANNUELLE DE LA PRISE EN CHARGE DES VICTIMES DE VIOLENCE SEXUELLE DANS LES CENTRES GHESKIO

De 2001 à juin 2009



N.B.: 2298 victimes de 2001 à Juin 2009 soit 22 mâles et 2276 femelles

# Women's empowerment

- Micro credit was introduced in 2005 to women visiting GHESKIO's reproductive health unit in collaboration with the MIF institution (ACME), support of UNFPA and Merieux Foundation.
- The objective is to empower women and develop income generating activities.
- A fixed interest rate of 2%/month was granted.
- 688 (42%) of the 1638 beneficiaries were HIV+, and 269 (39%) of the HIV Positive beneficiaries had AIDS and receiving HAART.
- The majority 1474 (90%) of the women had no other income. The capacity to repay the loan was used to evaluate the impact.

# Loan portfolio as of July 2009

## 2879 loans to 1638 individuals

Loan Cycle	Number of Loans	HIV Positive	HIV Negative	Loan Amount in HTGS	Loan Amount in US Dollars
<b>First</b>	1638	688	950	10,194,500	254,862.50
<b>Second</b>	717	316	401	6,422,000	160,550.00
<b>Third</b>	296	166	130	3,282,500	82,062.50
<b>Fourth</b>	104	76	28	1,309,000	32,725.00
<b>Fifth</b>	60	46	14	931,500	23,287.50
<b>Sixth</b>	40	31	9	850,000	21,250.00
<b>Seventh</b>	19	12	7	553,500	13,837.5
<b>Eight</b>	5	4	1	290,000	7,250
<b>Total</b>	<b>2676</b>	<b>-----</b>	<b>-----</b>	<b>23,833,000</b>	<b>595,825.00</b>

One US Dollar is equal to 40 HT Gourdes: **1638 individuals received 2879 loans**

# Reimbursement rate of the portfolio by clinical status - March 2005 – July 2009

	<b>Total</b>	<b>Non AIDS</b>	<b>AIDS</b>
<b>First Loan</b>	93%	89%	97%
<b>Second Loan</b>	88%	83%	93%
<b>Third Load</b>	97%	97%	97%
<b>Fourth Loan</b>	98%	99%	97%
<b>Fifth Loan</b>	88%	89%	87%
<b>Sixth Loan</b>	86%	90%	82%
<b>Seventh Loan</b>	84%	90%	78%
<b>Average</b>	<b>91%</b>	<b>91%</b>	<b>91%</b>

\*Among 688HIV(+) 264 (38%) had AIDS and are receiving HAART



# GHESKIO National Expansion services for Prevention and Care of HIV/AIDS/TB/Malaria (MOH/GHESKIO network)

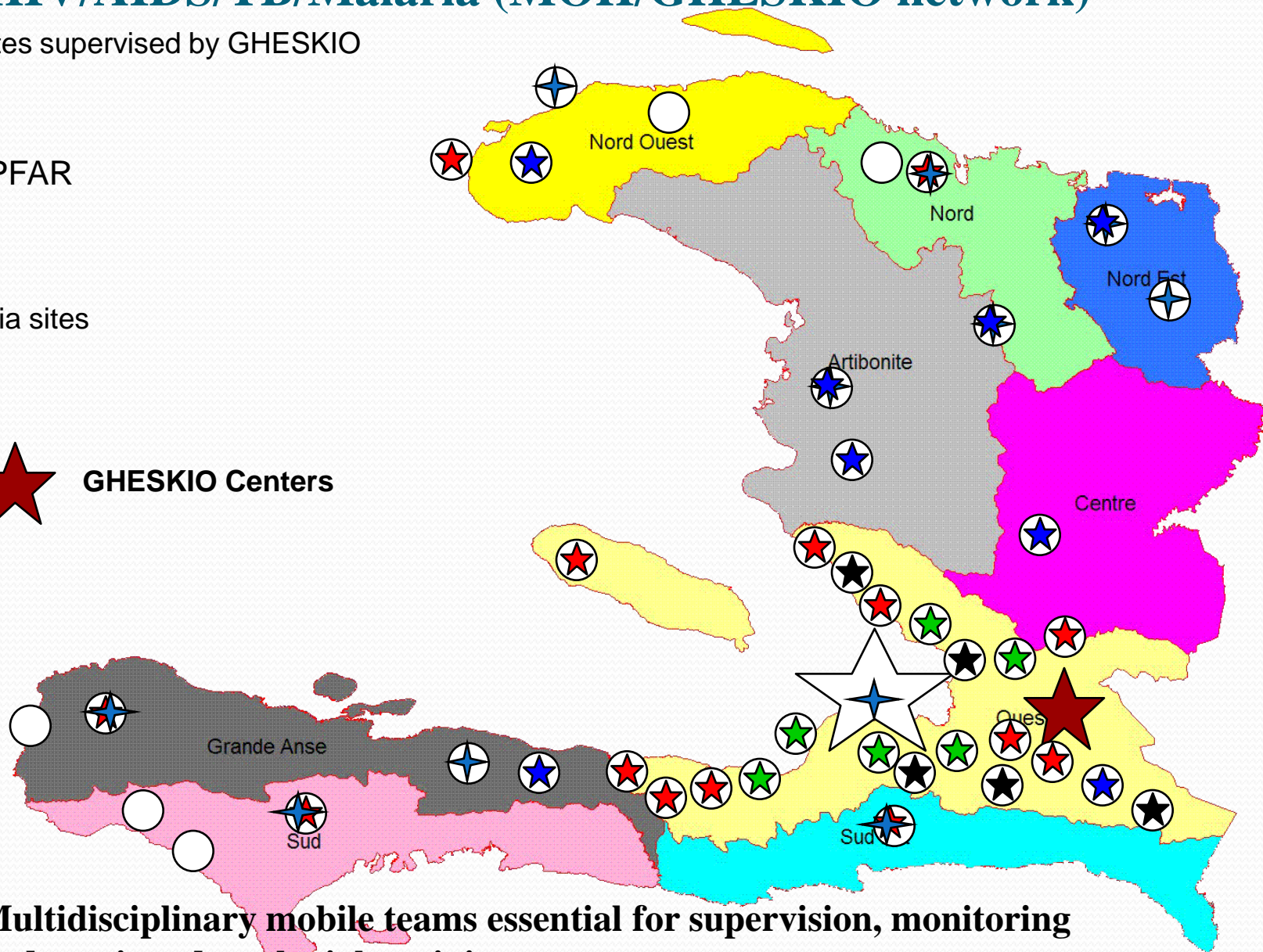
○ 43 HIV sites supervised by GHESKIO

★ - PEPFAR

★ - FM

★ 11 Malaria sites

★ ★ GHESKIO Centers



**Multidisciplinary mobile teams essential for supervision, monitoring and continued on the job training**

# Interventions

(as of 12/2008)

	NATIONAL	GHESKIO
Tested and counseled for HIV and syphilis	1,692,614	517,395
Tested for HIV	1,272,688	447,622
HIV-infected	99,143	44,425
Tested for syphilis	880,590	379,685
Serology + for syphilis	52,991	23,817
Pregnant women tested for HIV and syphilis	781,329	178,986
HIV-infected pregnant women	14,802	5,396
Patients treated for STIs	n/a	48,579
HAART	18,558	9,054

# ART Network

## MOH and Gheskio Sept , 2009

	<b>All HAITI (<a href="http://www.mesi.ht">www.mesi.ht</a>)</b>	<b>MOH/Gheskio Network</b>	<b>%</b>
<b># Patients placed on ART</b>	<b>30, 886</b>	<b>15,576</b>	<b>50%</b>
<b># Active Patients</b>	<b>24, 655</b>	<b>12,490</b>	<b>51%</b>

# CSW and HIV prevalence

## Haiti

N=352

<b>Prevalence</b>	
HIV+	16 / 352 (5%)
RPR+	22/352 (6%)
GRA+	34/352(9.6%)

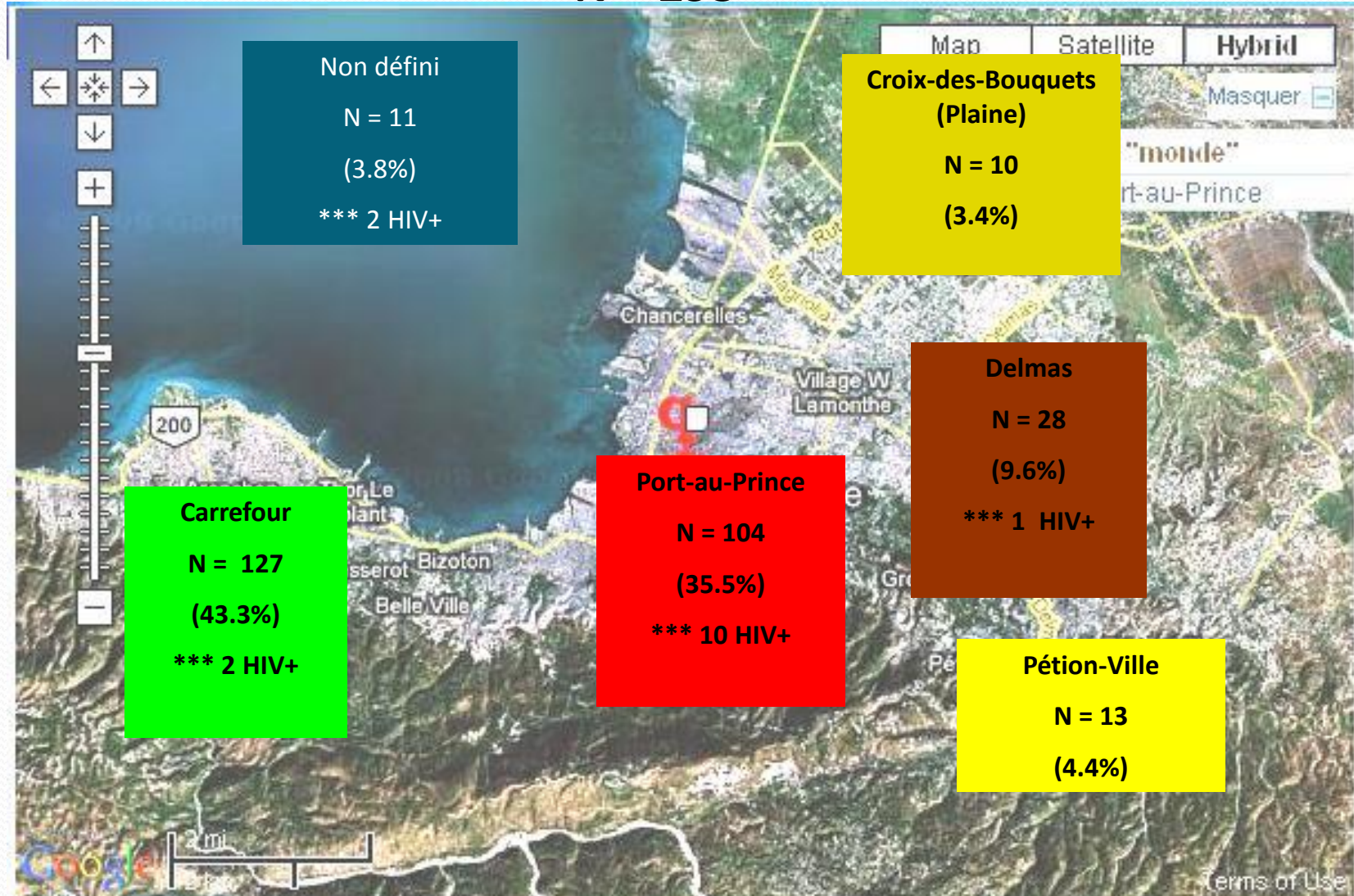
# Cost per sex exchange

## Haiti sites

<b>Haiti site recruitment areas: n=5</b>	<b>Payment per sexual contact (Range :US)</b>
<b>Port au Prince</b>	<b>\$0.50 - \$2.40</b>
<b>Delmas</b>	<b>\$2.40 - \$6.00</b>
<b>Carrefour</b>	<b>\$0.50 - \$2.40</b>
<b>Croix Bouquets</b>	<b>\$ 0.50-\$2.40</b>
<b>Pétion -Ville</b>	<b>\$2.40 - \$6.00</b>

# Distribution of Sex Workers according to their worked areas

N = 293



# Summary/Perspectives

- Women, Adolescents, CSW, particularly young girls are the most vulnerable : Lack of education-Poverty.
- There is the need for national scale up services for FP services, ARV, antenatal care to decrease MM and prevention of HIV , syphilis, unwanted pregnancy, cervical, breast cancer..
- GHESKIO women's health clinic will be created to focus those needs with the MOH in collaboration with partners .