Integration of HIV Testing Within Routine Care in a Large Public Hospital System

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November 6, 2007



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Topics covered

- Overview of HIV and the HIV Testing Expansion Initiative
- Corporatewide and facility results
- Lessons learned



HHC is in the epicenter of the national HIV/AIDS epidemic

8.2 million people live in NYC

HHC serves 1.3 million New Yorkers each year

100,000 of these are HIV positive and

> 25,000 do not know it (est.)

It can be extrapolated that each year approximately 4,000 undiagnosed HIV positive New Yorkers access services at an HHC facility



New York City Health and Hospitals Corporation (HHC)

- Public benefit corporation created in 1969
- Largest municipal healthcare delivery system in US
 - 11 acute care hospitals with State Designated AIDS Centers
 - 6 diagnostic and treatment centers (D&TCs)
 - 4 long-term care hospitals
 - 95 extension clinics
 - MetroPlus (health maintenance organization)
 - Partnership in Care (HIV-specific managed care plan)
 - Home care agency



HHC, continued

- 1.3 million New Yorkers served
- 224,300 discharges
- 4,934,600 visits
- \$5.5B operating budget
- Approximately 19,000 patients with HIV/AIDS

Note: FY07 Data



NYC Health & Hospitals Corporation Networks and Facilities





NC

Jacobi

Bronx



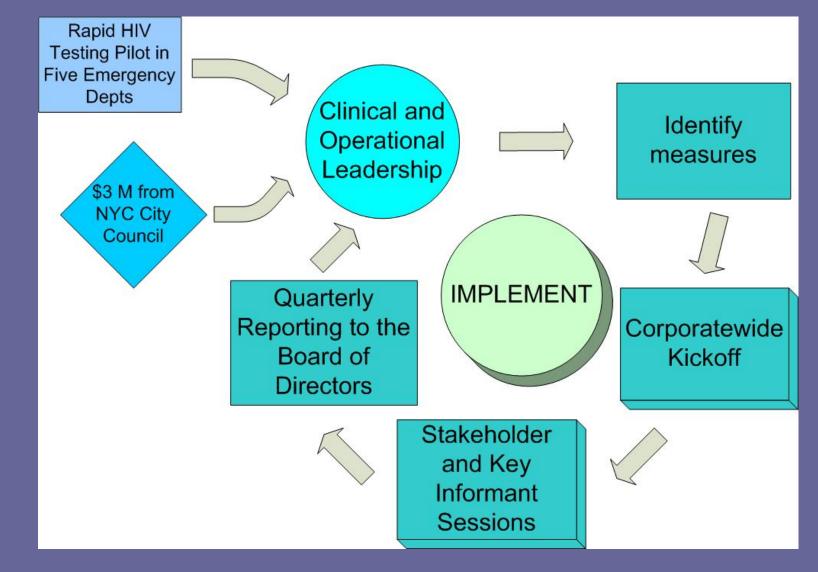
HIV Testing Expansion Initiative: Integrate HIV testing within routine medical care

- Increase the number of patients who know their HIV status
 - Test 150,000 unique patients (increased from 100,000 in FY06)
- Increase the proportion of patients who enter care early
 - Reduce the number of concurrent AIDS diagnoses
- Once in care, retain patients in care

• <u>>80% of patients will have 2 medical visits in the last 12</u> months, with at least one visit in the last 6 months

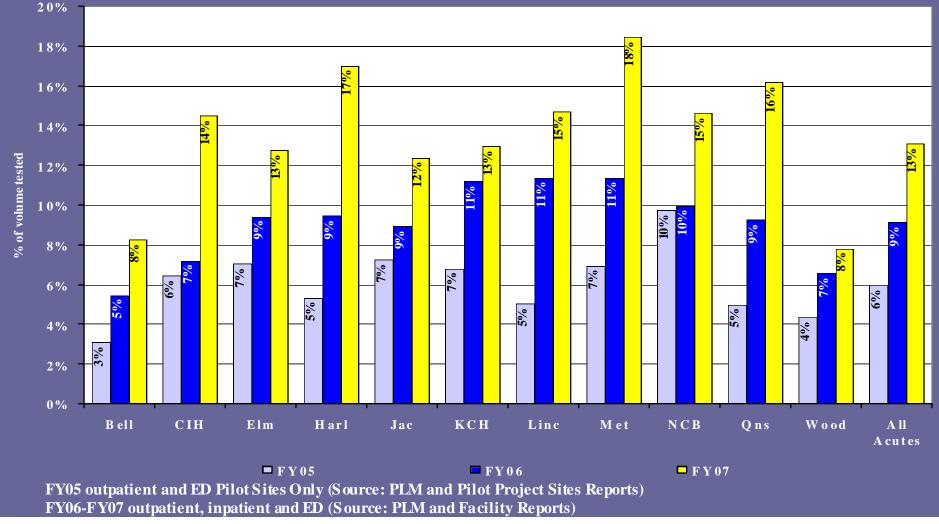


HIV Testing Expansion Plan



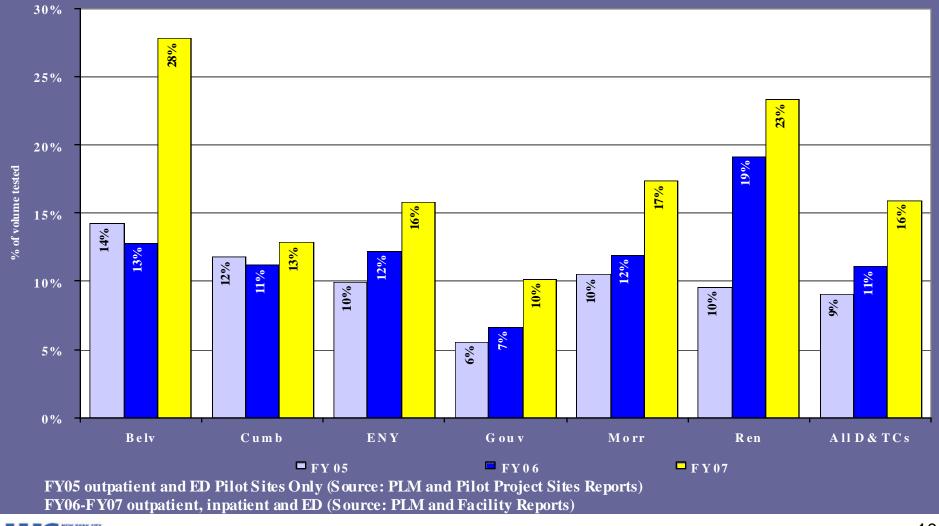


The percentage of unique patients tested at HHC hospitals steadily increased while overall volume remained stable



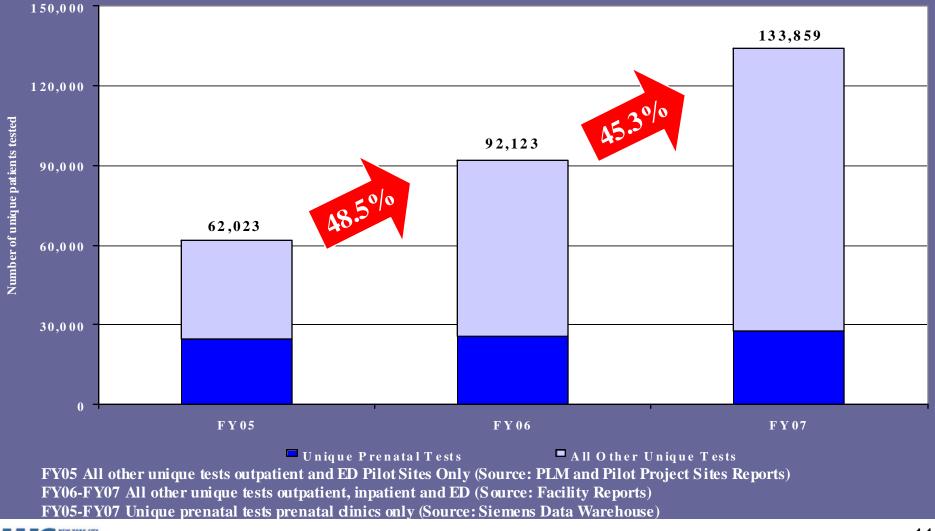


The percentage of unique patients tested at D&TCs steadily increased while overall volume remained stable

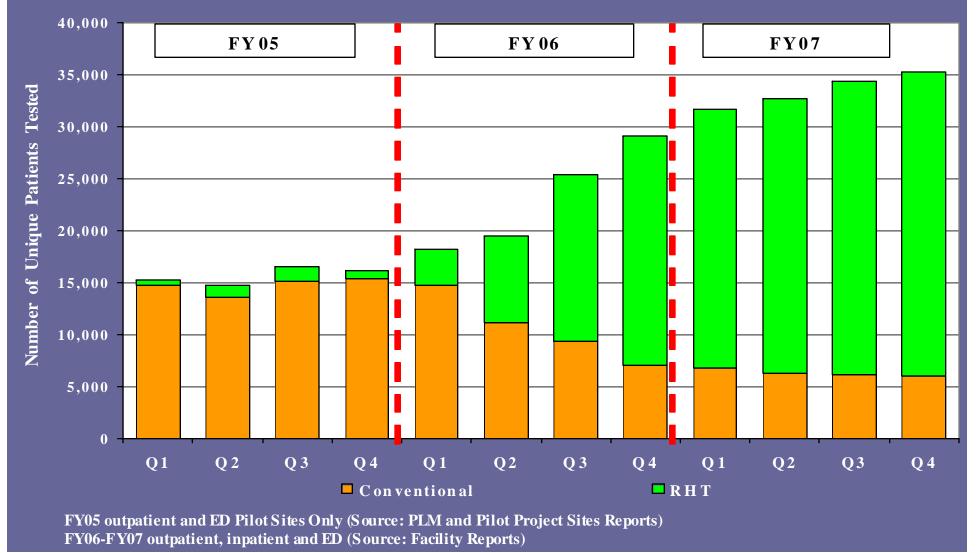




The number of unique patients tested grew while prenatal testing remained relatively stable

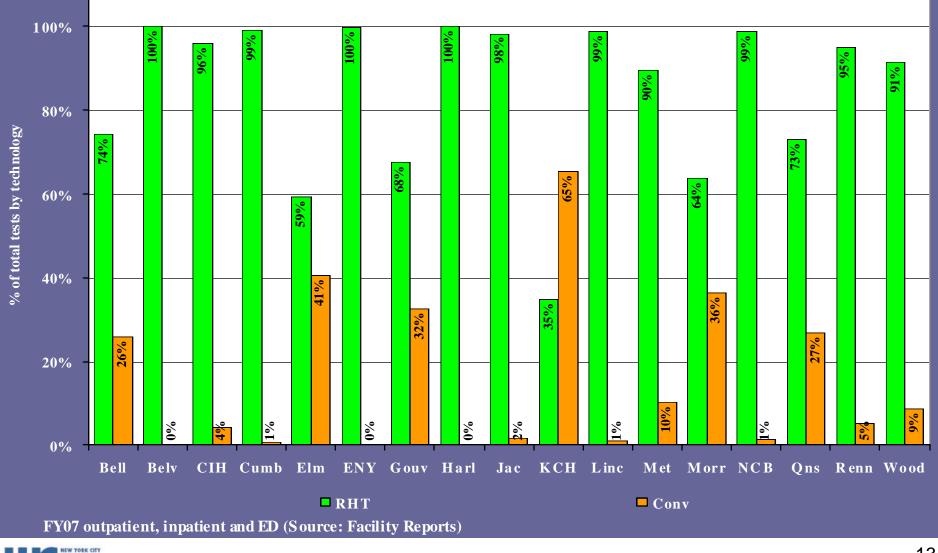


Rapid HIV testing comprised the majority of unique tests conducted in FY06 and FY07





But the use of rapid testing varied widely across facilities

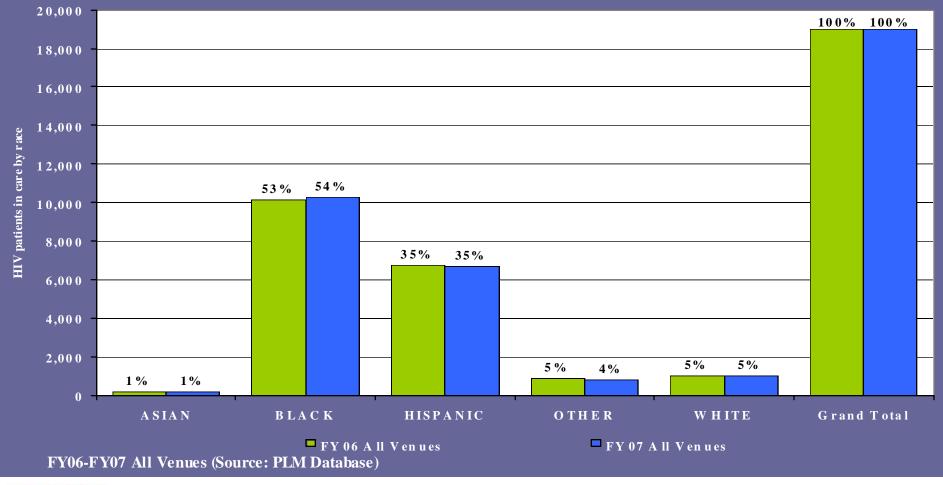




Patients in Care, Prevalence, Incidence and Venues

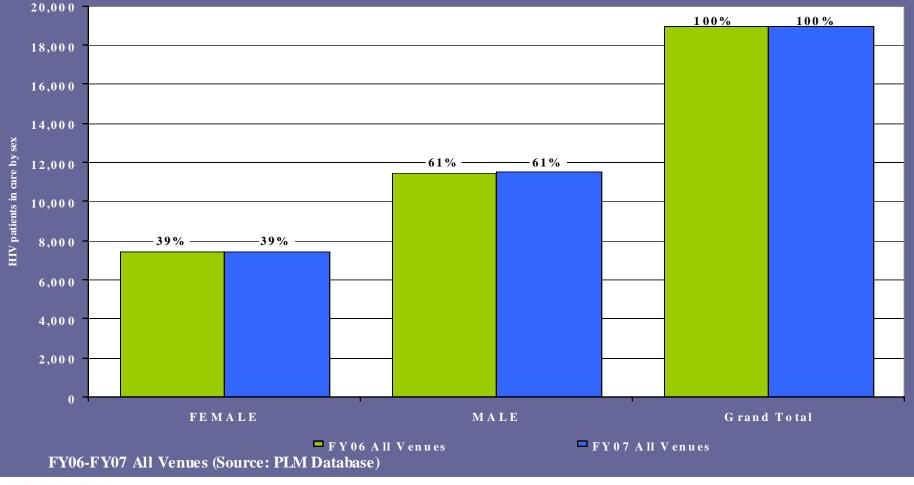


People of color continue to represent the largest percentage of unique HIV positive patients in care...

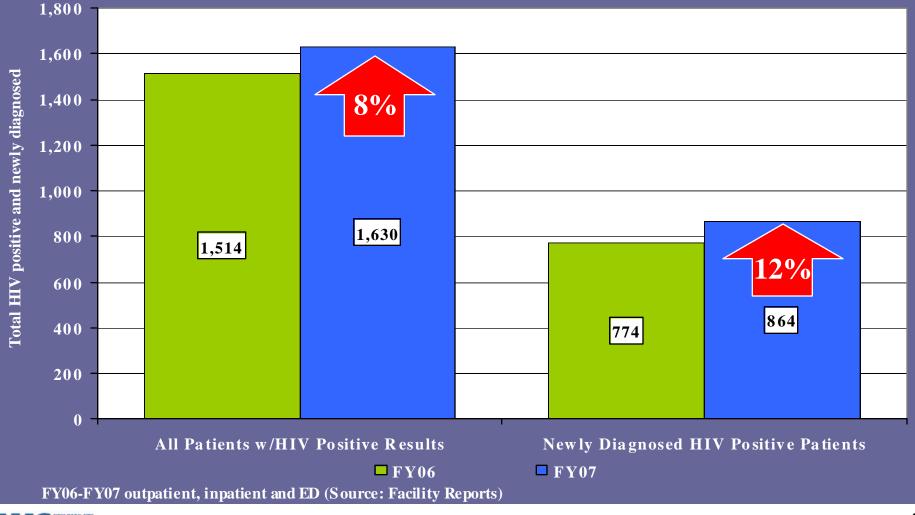




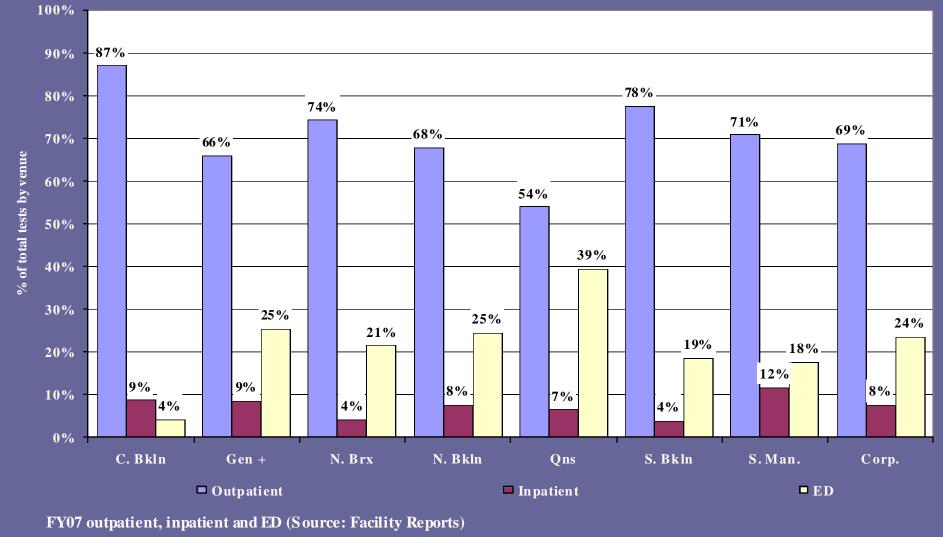
While men continue to represent the largest number of unique HIV positive patients in care



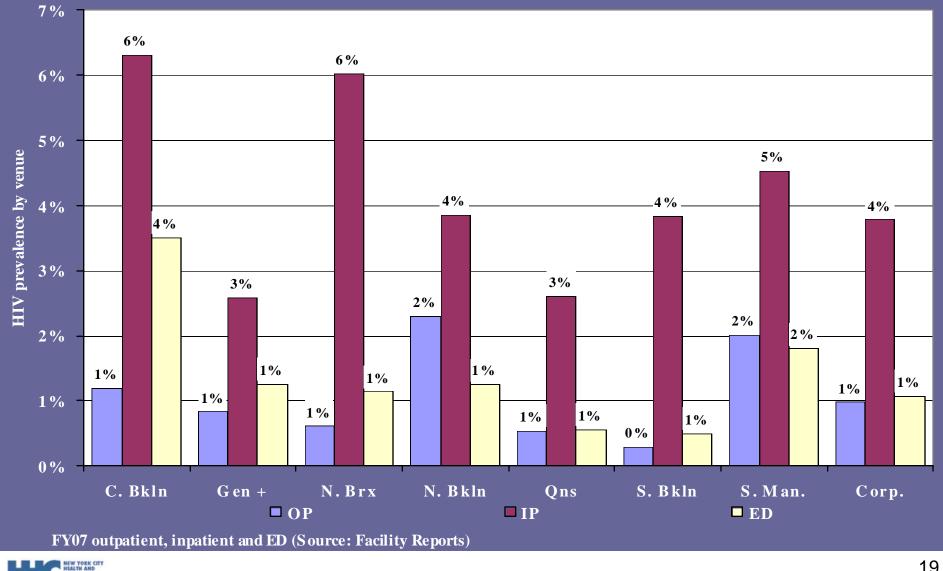
Both the total number of unique patients who tested HIV positive and the subgroup newly diagnosed with HIV increased in FY07



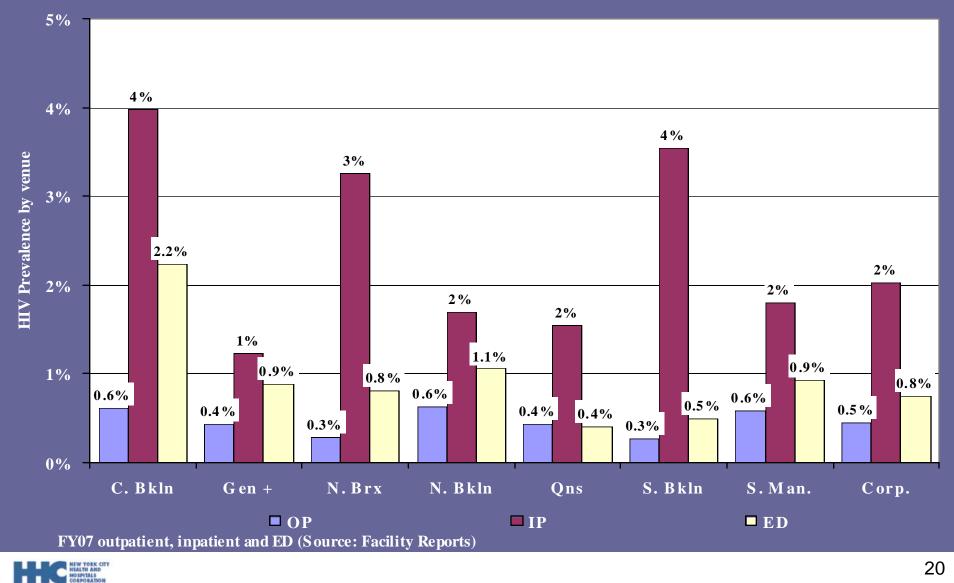
Most networks focused their expansion efforts in the outpatient and ED areas



Across all networks, prevalence was highest in inpatient units

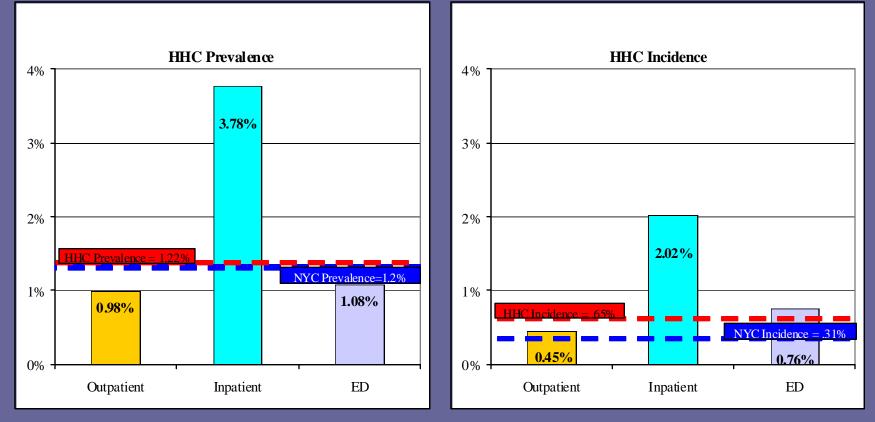


As was the percentage of newly diagnosed HIV positive patients



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Preliminary utilization data suggest the proportion of newly HIV positive individuals may be greater in HHC than in the city as a whole



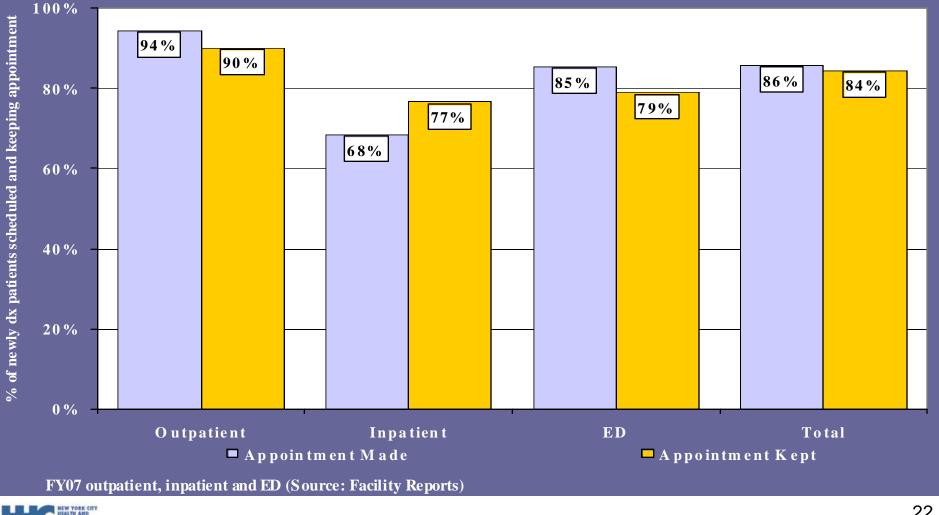
FY07 outpatient, inpatient and ED (Source: Facility Reports)

NYC Incidence (Source: NYCDOHMH HIV Incidence Estimates Using STARHS – the serologic testing algorithm for recent HIV seroconversions. CROI poster 2/2007)

NYC Prevalence (Source: NYC HIV/AIDS Annual Surveillance Statistics. 12/2006)

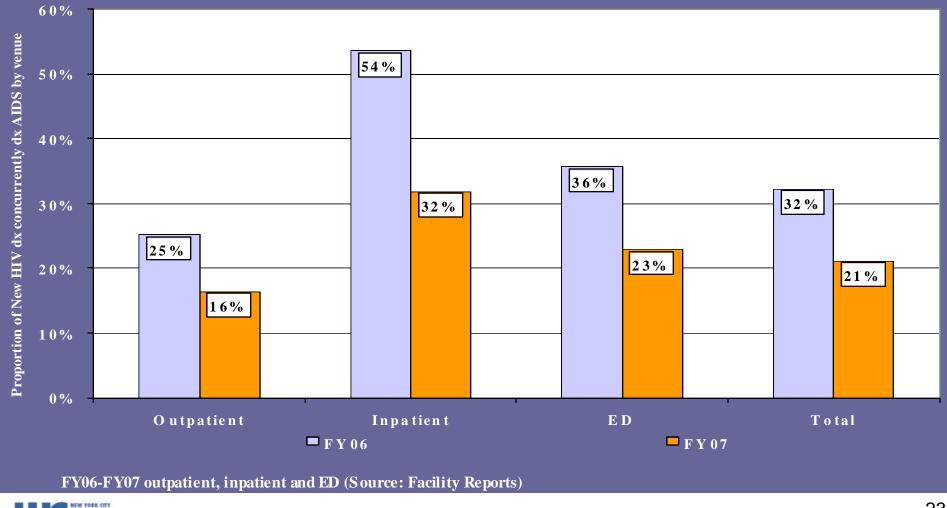


Patients newly diagnosed with HIV in outpatient areas are more likely to be scheduled for and keep their first HIV primary care appointment



HOSPITALS

Of patients newly diagnosed with HIV who kept their first HIV appointment, fewer were concurrently diagnosed with AIDS in FY07 vs. FY06





Accomplishments

- Large-scale implementation led to the identification of a significant number of individuals who would not likely otherwise have taken the opportunity to test.
- Rapid HIV testing is now available at all HHC acute care hospitals and D&TCs (17 sites).
- All HHC acute care hospitals now offer HIV testing in multiple venues: ED, inpatient units and at least three outpatient clinics (including Dental, Medicine, Women's Health Services, Adolescent Health Services and Chemical Dependency).



Variables that impact the expansion of testing across HHC

Drivers

- Widespread use of a rapid, easy-to-use HIV test
- Consistent use of the streamlined HIV counseling model with regular monitoring and evaluation
- Clinical and executive level commitment to expand testing within the facilities

Inhibitors

- Number of clinicians offering and conducting testing at some facilities
- Availability of interdisciplinary teams 24/7
- Dedicated space for counseling HIV-positive patients in all venues



Data Caveats

- FY05 testing data represents outpatient and ED Pilot Sites only.
- Data for FY06 and FY07 HIV-positive patients in care reflects patients connected to care at the time of report and does not capture patients who may have entered care at a later date.
- The number of unique patients tested for HIV is based on patient self-report and facility medical records.
- Identification of 'new diagnosis' is based on patient self-report and facility medical records.
- Medical records are unique to each facility and in some cases, networks. It is possible in some instances that counts are not unduplicated between sites.



Summary messages

- Encouraging patients to know their HIV status is a message that resonates with health care professionals.
- The presence of clinician champions and well functioning, interdisciplinary teams can significantly improve testing rates.
- Inpatient testing provides significant opportunities as well as challenges in complex teaching facilities.
- Best practices for successful expansion of HIV testing will look different at each facility one size does not fit all.
- HHC facilities and centrally will continue to examine the data being generated to inform long-term direction and other service and policy implications.



Acknowledgements and Appreciation

The dedicated physicians, nurses, administrators, patient care associates, HIV counselors, phlebotomists, lab directors and many others throughout HHC who have contributed to the HIV testing expansion effort

Terry Hamilton, *Director of HIV Services, HHC* Drew De Los Reyes, *Senior Management Consultant, HHC* Jay Gabor, *Senior Management Consultant, HHC* Judy Aberg, MD, *Medical Director of HIV Services, Bellevue Hospital Center and the HHC South Manhattan Network*

