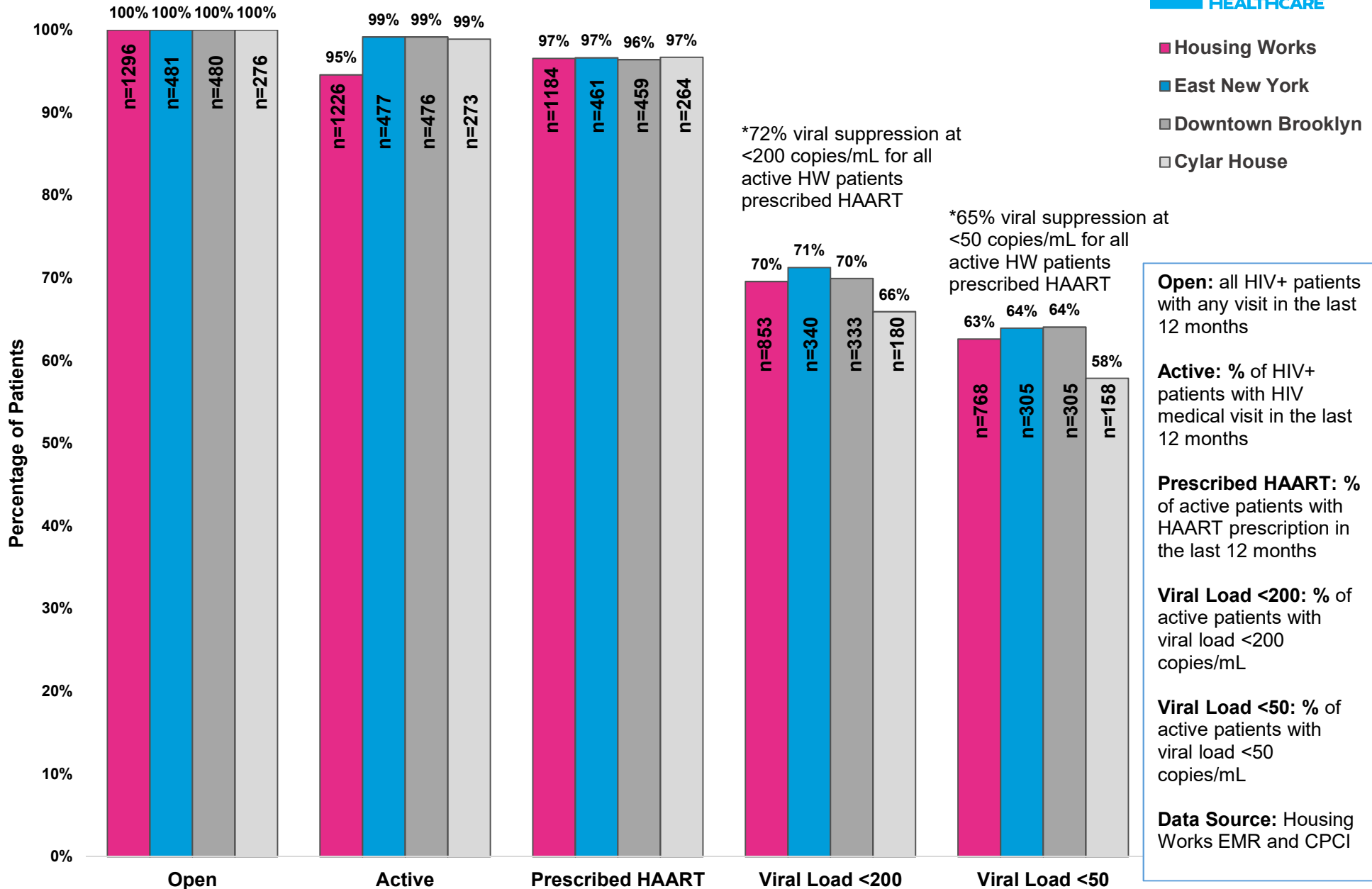
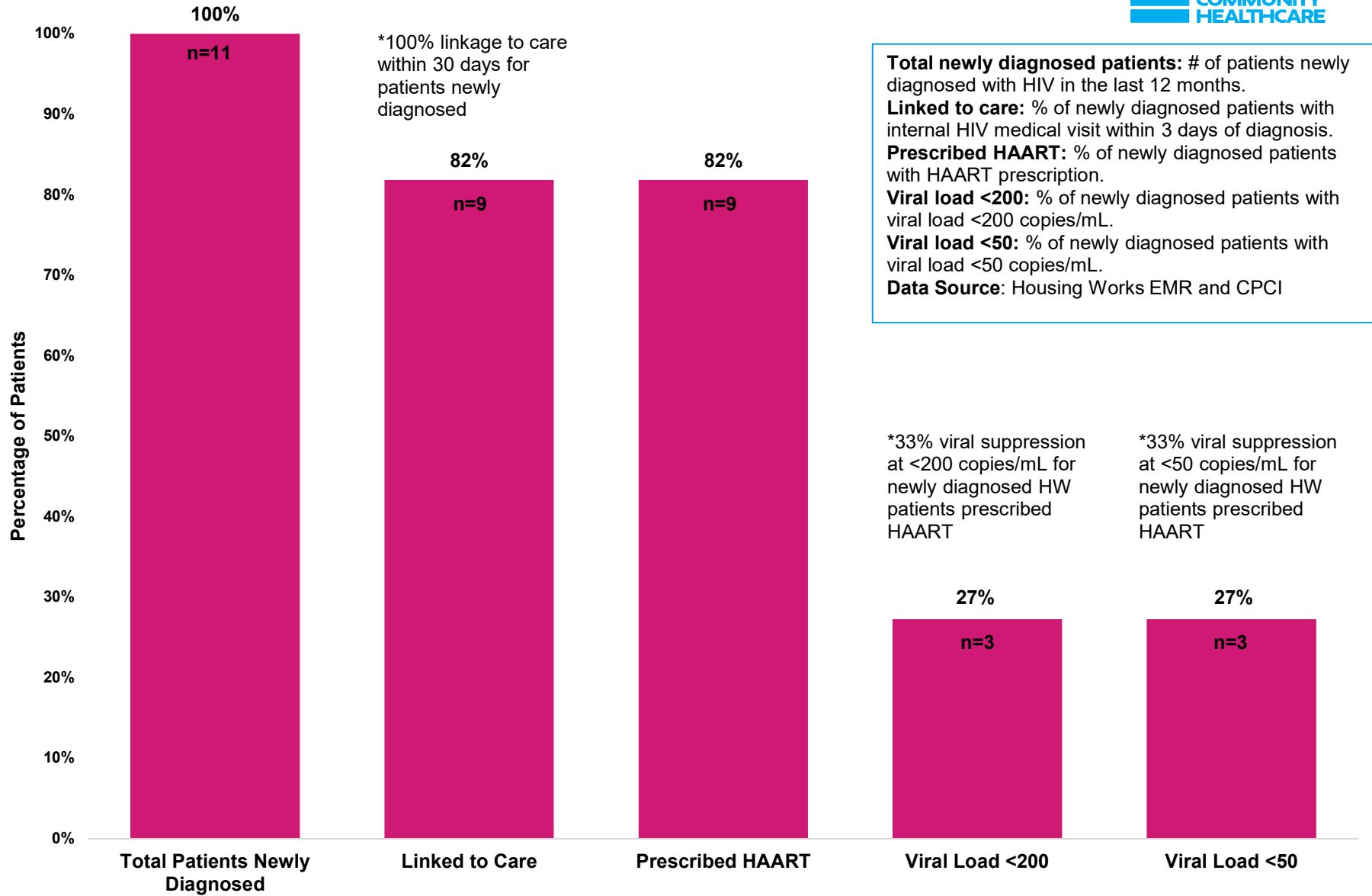


HIV Care Cascade - Established Patients (2016)



HIV Care Cascade for Newly Diagnosed Patients (2016)





HIV Care Cascade Methodology Calendar Year 2016

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Data Source

The population of interest for the care cascade is all HIV positive patients who have been touched by Housing Works Community Healthcare between January 1, 2016 and December 31, 2016. Data was sourced through the Housing Works electronic medical record (EMR), eClinicalWorks (eCW), and CHCANYS Center for Primary Care Informatics (CPCI).

To obtain a comprehensive list, two reports were generated and merged. The first queried eCW for patients seen by a primary care provider (PCP) in 2016 with a documented HIV diagnosis. The list of approved PCP appointments included Initial, Comprehensive, Primary Care Follow-up, Primary Care Follow-up with Case Conference and Acute Primary Care visits. The report detailed the following client level information: 1) primary Housing Works service location; 2) most recent Rapid and 4th Generation HIV test dates with result; 3) last viral load date with result, and 4) HIV prescription in 2016. Binary yes/no values for prescription were based on the AIDS Institute guide of approved medications. HIV test dates combined with individual chart audits were used to identify patients newly diagnosed for HIV.

The eHIVQUAL Registry was also generated from CPCI for patients seen in the 2016 calendar year. Two definitions for caseload were used: open and active. Open is defined as all HIV+ patients with any visit in the last 12 months. Active refers to the patients with HIV specific medical visits in the last 12 months. The registry was used to identify additional patients who fall into Housing Works' open caseload. Most non-active patients (n=59) attend and receive quarterly nursing visits through our AIDS Adult Day Health Care (ADHC) program. However, these patients are known to obtain their primary care services externally. The remaining 11 clients were reported deceased in 2016. No clients incarcerated or of unknown disposition.

Measures

Five measures were used within the cascade for established patients. The first is the percent of active patients with HAART prescription or "Prescribed HAART." The two other measures define active patients based on their viral load status, less than 200 copies/mL or less than 50 copies/mL. Also reported is the percent of virally suppressed active patients of those prescribed HAART at each threshold (50 and 200 copies/mL).

The HIV care cascade for newly diagnosed patients highlights patients newly diagnosed with HIV in 2016. It includes a "linked to care measure," defined as the percent of newly diagnosed patient with internal



HIV medical visit within 3 days of diagnosis, as well as within 30 days. It also reports the percent of those on HAART at 50 and 200 copies/mL. Refer to **Appendix A** for the list of measures.

Procedure

The eCW and CPCI reports were merged in Excel to create a master list. Chart audits were conducted on patient samples to validate the data accuracy and fill in gaps as needed. Null lab values for last viral load tests were replaced by the most recent valid value in 2016. Primary service location was cleaned to match the main clinic of the assigned primary care provider. A full chart review of newly diagnosed patients was conducted to assess the days between initial HIV diagnosis and first visit with a prescribing provider. Two additional categories were created to identify patients whose last viral load was less than 200 copies/mL and those less than 50 copies/mL.

Contingency tables separated each individual measure by all agency and Housing Works site. Frequencies were converted into percentages to assess the effect on the total active client population and at each stage of the continuum, as represented in the care cascades.

Appendix A. Measures Reported in HIV Care Cascade for Newly Diagnosed and Established Patients

| Measure | Calculation for newly diagnosed patient cascade | Calculation for established patients cascade |
|---------------------------------------|--|---|
| Linkage to HIV medical care | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV during the measurement year.</p> <p><i>Numerator:</i> Number of patients who attended a routine HIV medical visit at Housing Works within 3 calendar days of diagnosis during the measurement year.</p> | Not applicable |
| Prescribed HAART | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV during the measurement year.</p> <p><i>Numerator:</i> Number of patients prescribed HAART during the measurement year.</p> | <p><i>Denominator:</i> Number of patients in active caseload</p> <p><i>Numerator:</i> Number of patients prescribed HAART during the measurement year.</p> |
| Viral load suppression <200 | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV during the measurement year.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 200 copies/mL at last HIV viral load testing during the measurement year.</p> | <p><i>Denominator:</i> Number of patients in active caseload.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 200 copies/mL at last HIV viral load during the measurement year.</p> |

| Measure | Calculation for newly diagnosed patient cascade | Calculation for established patients cascade |
|---|--|--|
| Viral load suppression <50 | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV during the measurement year.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 50 copies/mL at last HIV viral load testing during the measurement year.</p> | <p><i>Denominator:</i> Number of patients in active caseload.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 50 copies/mL at last HIV viral load during the measurement year.</p> |
| Viral load suppression <200 for Patients on HAART | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV and prescribed ART during the measurement year.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 200 copies/mL at last HIV viral load testing during the measurement year.</p> | <p><i>Denominator:</i> Number of patients in active caseload prescribed ART during the measurement year.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 200 copies/mL at last HIV viral load during the measurement year.</p> |
| Viral load suppression <50 for Patients on HAART | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV and prescribed ART during the measurement year.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 50 copies/mL at last HIV viral load testing during the measurement year.</p> | <p><i>Denominator:</i> Number of patients in active caseload prescribed ART during the measurement year.</p> <p><i>Numerator:</i> Number of patients with a HIV viral load less than 50 copies/mL at last HIV viral load during the measurement year.</p> |
| Linkage to HIV medical care within 30 days | <p><i>Denominator:</i> Number of patients newly diagnosed with HIV during the measurement year.</p> <p><i>Numerator:</i> Number of patients who attended a routine HIV medical visit at Housing Works within 30 calendar days of diagnosis during the measurement year.</p> | Not applicable |