

Six-Month Outcomes from a Medical Care Coordination Program at Safety Net HIV Clinics in Los Angeles County (LAC)

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Background

- In LAC and across the US, approximately 50% of people living with HIV do not see a doctor regularly for their HIV medical care
- Medical care coordination models have improved health outcomes for a number of chronic diseases however there is limited application of these models in HIV care and management
- In 2013, DHSP shifted toward "Medical Care Coordination" model in its HIV clinics to identify and manage patients' medical and psychosocial needs



MCC Objectives

- To implement a medical care coordination program at Ryan White-funded HIV clinics in LAC to:
 - Improve retention in HIV care
 - Increase viral suppression (<200 copies/mL)
 - Link patients with identified medical and psychosocial comorbidities to needed services



LAC Medical Care Coordination (MCC) Model

- Combines medical and non-medical case management services
- Services delivered by a multidisciplinary team (RN, Master's –level social worker, and case worker) based at the HIV clinic as part of care team
- All HIV clinic patients are screened for MCC service need:
 - Intensive services delivered to patients at risk for poor health outcomes for minimum of 12m
 - Stable patients monitored for change in health status, and support referrals provided as needed



Evaluation Design and Outcomes

- Design:
 - Pre-and posttest program evaluation
- Evaluation Period: January 2013-February 2014
- Main Outcomes:
 - Change in median viral load from baseline to 6 months
 - Change in viral suppression (< 200 copies/mL) from baseline to 6 months



Patient Population

- MCC Sites
 - 18 Ryan White-funded HIV clinics in LAC
- Eligibility Criteria
 - HIV+ patients at risk for poor health outcomes
 - Not in HIV care (≥6 months)
 - Not on ART but CD4 count <500
 - On ART with viral load >200 copies/mL
 - Multiple medical/psychosocial co-morbidities that impact health status
 - Receiving intensive MCC services for \geq 6 months
 - Insurance type=Ryan White or Healthy Way LA (Medicaid expansion)



Data Collection and Analysis

- Data collection
 - Patient characteristics at baseline
 - Laboratory (viral load and CD4 count) and MCC service data from baseline to 6m
- Analysis
 - Differences in viral load and viral suppression were compared from baseline to 6 months using Wilcoxon signed rank and McNemar's tests for paired data, respectively
 - Logistic regression to calculate odds ratios and 95% confidence intervals for viral suppression



Patient Characteristics (n=327)

- Race¹: 52% Latino, 21% African-American, 24% White, 3% other
- Gender¹: 84% male, 13% female, 3% transgender
- Age¹: 52% age 40 years and older
- Income¹: 75% at or below federal poverty level
- Language¹: 23% Monolingual Spanish-speaking
- HIV History and Care:
 - 19% newly diagnosed with HIV (in the past 6m)¹
 - 12% out of HIV care (no visits in at past 6m)¹
 - 52% not on ART but meets criteria (CD4 count <500cells/mm³)²
 - 55% on ART without viral suppression (<200 copies/mL)²
- Psychosocial³
 - 65% current drug/alcohol use
 - 50% previously diagnosed with mental health issue

¹Provider reported; ²laboratory report ³patient self-report



Viral Load and Viral Suppression at 6 months

- Median viral load decreased from 3,870 copies/mL (IQR=54,538) at baseline to 24 copies/mL (IQR=309) at 6 months (p<0.001)
- The proportion of patients with suppressed viral load (<200 copies/mL) increased from 25% at baseline to 57% at 6 months (χ²=80.4; p<0.001)
- After adjusting for outpatient visits and patient acuity, patients were more likely to have suppressed viral load after 6m of MCC than before MCC (odds ratio=4.1; 95%CI=2.2-7.6)
- Total hours of MCC service received not associated with viral suppression



Limitations

- No control group
- May not be generalizable to patients who are:
 - Not in Ryan White or other safety net HIV care systems
 - Not experiencing risk factors for poor health outcomes



Conclusions

- At six months patients in medical care coordination programs at safety net HIV clinics in Los Angeles County had a 4 fold increase in the proportion of patients with viral suppression
- While findings are preliminary, they suggest that these MCC programs have the potential to improve health outcomes among patients at safety net HIV clinics
- Future analyses will examine the association between MCC and retention in HIV care, the impact of specific MCC service components on health outcomes, and changes in health behaviors over time



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Thank you

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