Disparities in the progression from recent to sustained viral suppression in HIV-infected

people in care: Georgia Medical Monitoring Project, 2009-2014

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Introduction

- The achievement of sustained viral suppression is the goal of HIV treatment.
- Viral suppression is associated with lower morbidity, mortality and decreased risk of HIV transmission.
- Barriers to achieving viral suppression are higher for certain demographic groups, resulting in disparities in viral suppression.

Objectives

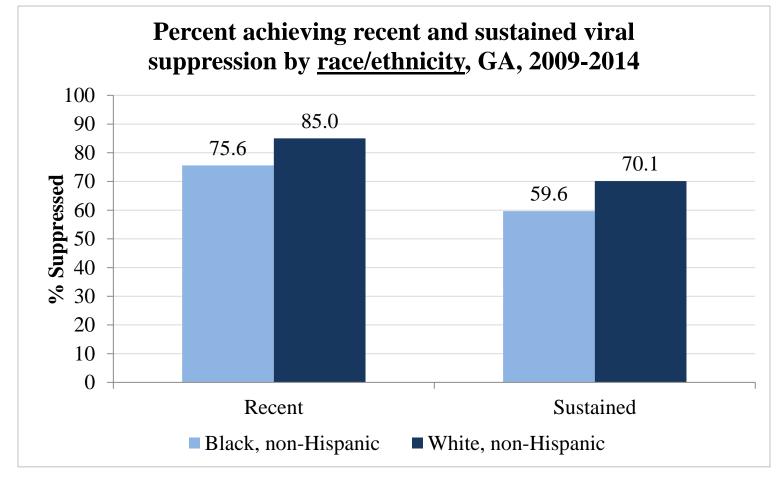
• The objective of this analysis was to compare the magnitude of the disparities seen among those with recent viral suppression (RVS), the standard measure used for the HIV care continuum, and among those with sustained viral suppression (SVS).

Methods

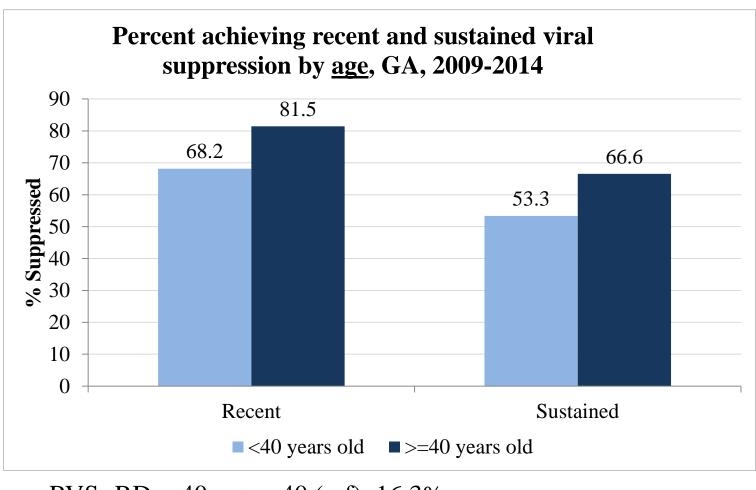
- MMP is a surveillance system that produces nationally representative estimates of behavioral and clinical characteristics of HIV-infected adults receiving medical care in the United States.
- Data were collected from 2009 to 2014 from 988 Georgia Medical Monitoring Project (MMP) respondents.
- RVS was defined as viral load (<200 copies/ml at last test within past 12 months)
- SVS was defined as (<200 copies/ml at all tests within past 12 months).
- Rao-Scott chi-square tests were performed to identify significant bivariate differences in factors associated with RVS and SVS
- Relative disparity (RD), or percent difference, was calculated to evaluate changes in disparities within the group for RVS and SVS.
- Depression was measured using PHQ-8, an eight item patient health questionnaire depression scale.

Results

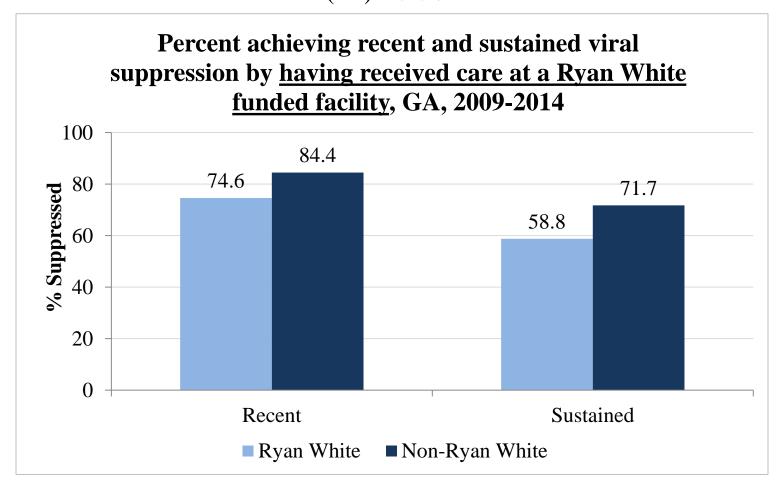
- RVS was achieved in 772 participants (77.6%, 95% CI: 74.2-80.9)
- SVS was achieved in 626 participants (62.7%, 95% CI: 57.8-67.6)



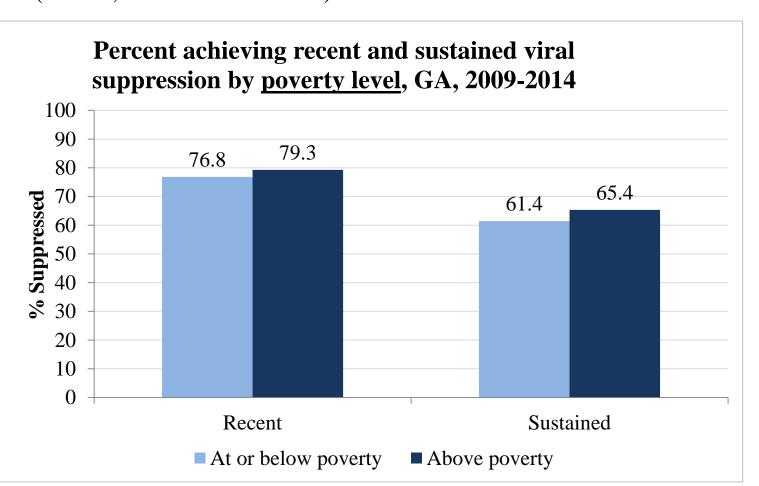
- RVS- RD: Black vs White (ref): 11.1%
- SVS- RD: Black vs White (ref): 14.9%



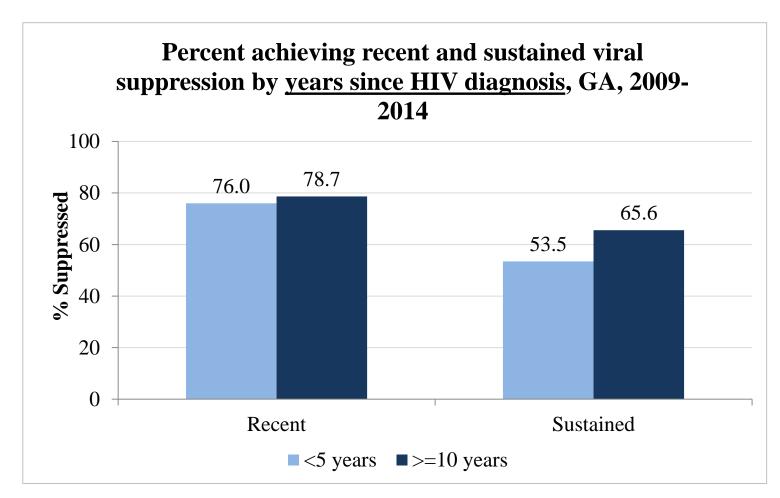
- RVS-RD: <40 vs>=40 (ref): 16.3%
- SVS-RD: <40 vs>=40 (ref): 19.9%



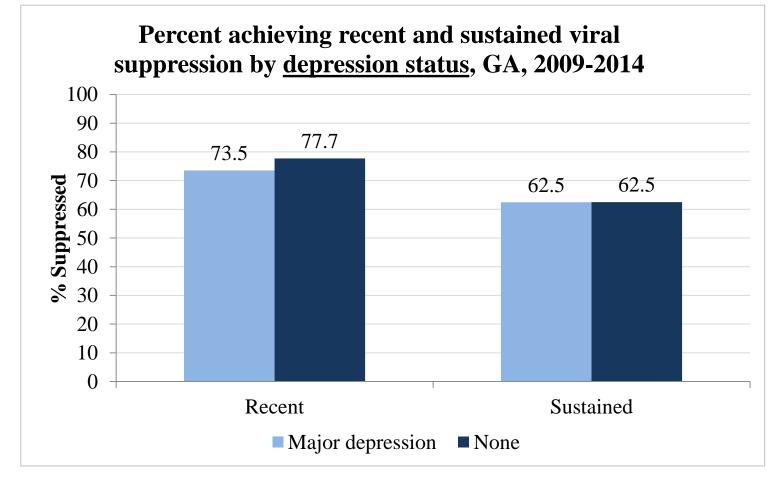
- RVS- RD: Ryan White vs Non-Ryan White (ref): 11.7%
- SVS- RD: Ryan White vs Non-Ryan White (ref): 18.0%



- RVS- RD: at/below vs above (ref): 3.1%
- SVS- RD: at/below vs above (ref): 6.0%



- RVS-RD: <5 years vs >=10 years (ref): 3.4%
- SVS-RD: at/below vs above (ref): 18.5%



- RVS- RD: major depression vs none (ref): 3.4%
- SVS- RD: major depression vs none (ref): 0%

Conclusions and Discussions

- Viral suppression disparities are generally larger for the achievement of sustained viral suppression than for recent viral suppression, the measure commonly used for the HIV care continuum.
 - Disparities grew for participants who were Black <40 years old, at or below poverty level, diagnosed with HIV <5 years ago, and received care at a Ryan White funded facility.
- However, the disparity grew smaller for participants scoring as having major depression.
- Relative disparity for characteristics with no or small observed change were: gender, sexual orientation, education level, ART adherence, and MMP cycle
- It is essential that these differences are highlighted and addressed. Targeted intervention efforts are needed to improve adherence, retention in care, and ultimately sustained viral suppression.
- These improvements will contribute to reducing disparities in morbidity, mortality, and HIV incidence.

Limitations

- During 2009-2014 MMP only collected information from people in care. The population percentage of those who have achieved recent or sustained viral suppression is smaller.
- Self-reported measures can be affected by recall and desirability biases.

Acknowledgements

Thank you to the Georgia Department of Public Health HIV/AIDS Epidemiology Surveillance Section at the and all MMP participants and partners for their contributions and support.

We Protect Lives.