

Adherence to Antiretroviral therapy in patients of Caribbean descent: A Look at the Ryan White Program

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Commercial Support was not received for this activity.



Learning Objectives

At the conclusion of this activity, the participant will be able to:

- 1. List some highlights of the HIV/AIDS Epidemic in Florida
- 2. Discuss the Ryan White HIV/AIDS Program in Broward county
- 3. Explain the process of care for patients at one clinic in this program





The Epidemic in Florida

HIV/AIDS in Florida?¹

- Ranks 3rd in the nation for HIV case rates in 2016 (24 per 100 000 population).
- Miami division and Ft Lauderdale division ranked top 2 MSAs for newly diagnosed HIV case rates in 2016.
- Overall a 18% decrease in HIV diagnoses by year of diagnosis, 2008-2017.
- Overall a 51% decrease in AIDS diagnoses by year of diagnosis, 2008-2017.



Broward County (2016)²

- Persons living with HIV 19 465
 - Black 46.2%
 - Hispanic 17%
 - Male 73.6%
- Number of new diagnoses 762
- New HIV Cases 37.9 per 100 000 persons
- New AIDS Cases 13.9 per 100 000 persons
- Persons Living with HIV 1096.3 per 100 000 persons



HIV Among the Caribbean Born Population in Florida³

- 18,163 Caribbean born Persons living with HIV/AIDS (PLWHA) through 2016.
- 20% of new HIV cases in Florida.
- 18% on new AIDS cases in Florida.
- Epidemic concentrated in Miami Dade and Broward counties.



Statement of the Problem^{4,5}

- Approximately 2 million persons from the Caribbean reside in Florida.
- Almost half of these persons reside in Miami Dade and Broward counties.
- Caribbean region ranks third globally for adult HIV prevalence rates.



https://www.wri.org/resources/maps/caribbean-region





Provide comprehensive data on adherence to ART in

Persons Living with HIV/AIDS (PLWHA) of Caribbean

descent in South Florida.



Significance

- 1. Persons of Caribbean descent are an understudied group
 - Few studies conducted in South Florida targeting PLWHA of Caribbean descent as a group
 - Contribution to knowledge on this population in South Florida
- 2. Highlight the Ryan White HIV/AIDS Program
 - Inform development of interventions
 - Inform Policy and improve Public Health





Ryan White Program in Broward County

Eligibility

- Proof of Identification photo
- Client must have a verified HIV positive diagnosis
- Proof of Residency in Broward county
- Income Qualification



Part A Funds

Core medical services include:

- Doctor Visits
- Dental Visits
- Mental Health Services
- Substance Abuse Services (Outpatient Only)
- Pharmacy
- Disease Case Management
- Health Insurance Premium Assistance



Part A Funds (cont'd)

Support services include:

- Eligibility Determination
- Case Management
- Food Services (Food Vouchers and Food Boxes)
- Legal Services



Methodology



Study Design

- Convenient sample
- Cross sectional survey
- Face to face interview
- Adherence assessments developed by AIDS Clinical Trial Group
- Secondary clinical measures of adherence absolute CD4 count, viral load



Study Design

- Inclusions Criteria
 - Consenting adult patients
 - Diagnosed with HIV/AIDS
 - Taking or experienced with antiretroviral medication
 - Migrated from the Caribbean or second generation
 Caribbean person
 - Resident of South Florida



Sample

- Infectious diseases clinic
- Convenient
- Sample size 115 patients



Data Analysis & Interpretation

- Descriptive analyses
 - Mean, medians, ranges, frequencies
- Adherence
 - Self Reported 3 day recall
 - Viral load
 - Absolute CD4 counts



Findings



Sociodemographics

Demographic	
Gender	N = 115
Female	61
Male	53
Did not identify	1

Demographic	Mean	SD	Median	Range	
Age (years)	47.00	12.37	48.00	21-79	
Household income (\$)	1,976.92	4,588.38	1,100.00	0-40,000	

Frequency (%)
-
7 (6.0)
6 (5.0)
9 (7.8)
15 (13.0)
14 (12.0)
16 (13.9)
17 (14.8)
15 (13.0)
16 (13.9)
-
2 (1.8)
12 (10.5)
27 (23.7)
28 (24.6)
7 (6.1)
18 (15.8)
17 (14.9)
3 (2.6)

-

51 (44.3)

31 (27.0)

18 (15.7)

10 (8.7)

5 (4.3)

Marital Status

Married

Widowed

Cohabitating

Single (never married)

Separated / divorced

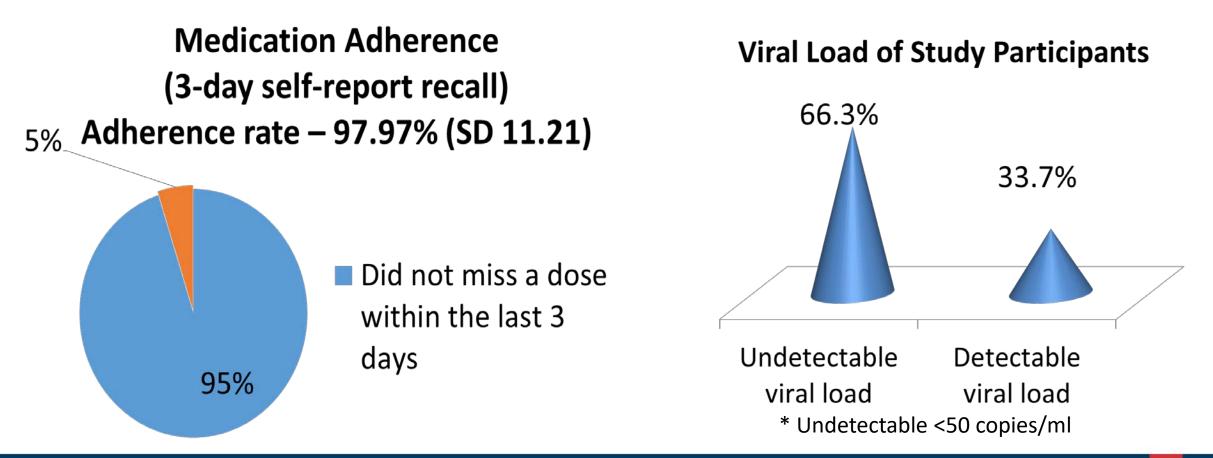


Country of Birth, n=115

Country of Birth	Frequency (%)
Greater Antilles	77 (66.9)
Bahamas	5 (4.3)
Cuba	11 (9.6)
Dominican Republic	11 (9.6)
Haiti	32 (27.8)
Jamaica	16 (13.9)
Puerto Rico	7 (6.1)
Turks and Caicos	1 (0.9)
Lesser Antilles	8 (6.96)
Antigua	1 (0.9)
Barbados	1 (0.9)
St. Vincent	2 (1.7)
Trinidad & Tobago	2 (1.7)
US Virgin Islands	2 (1.7)
United States	24 (21.0)

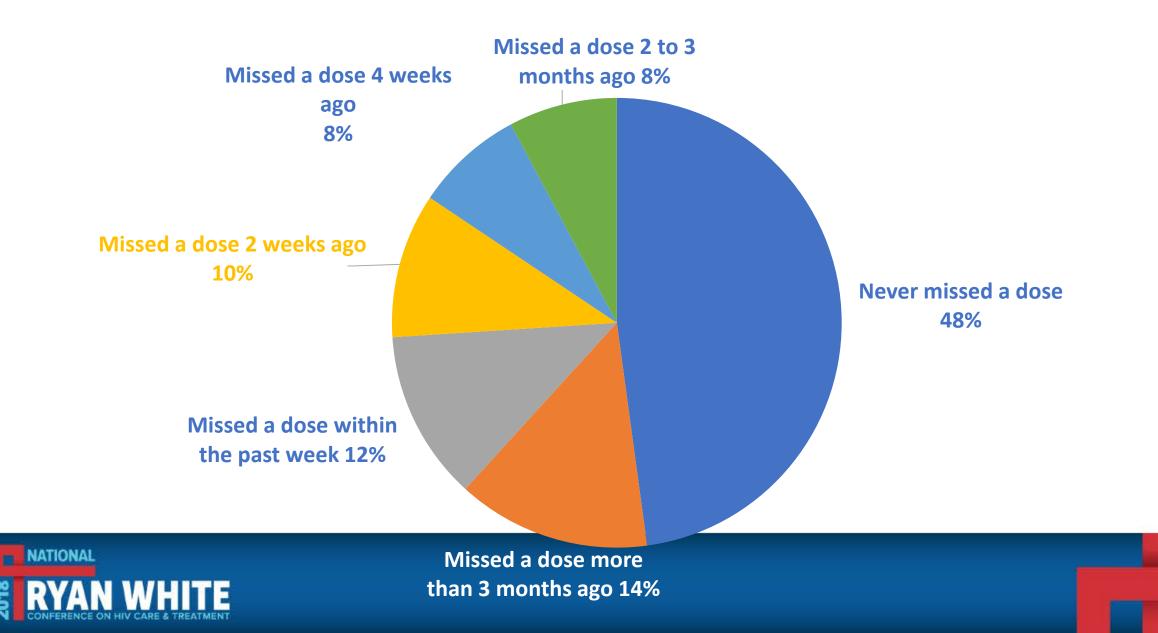








LAST MISSED DOSE



Medications

- The maximum daily pill count of HIV medications was eight tablets.
- The mean daily pill count was 2.43 (SD 1.85).
- Patients were on ART for an average of seven years.
- 10% of patients having been on this therapy for less than 1 year.
- Forty-five percent of the study sample took one pill daily.
- 33% took 3 pills daily.



Discussion



Summary

- Optimal adherence rate of almost 98%.
- Health outcomes did not always reflect this.
- Favorable adherence report likely be due to access to benefits of

Ryan White Program.



Healthcare Team

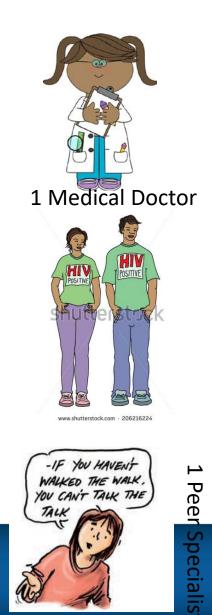


3 Case Management Worker



1 Clinical Nurse & 1 Disease Management Nurse Practitioner









Care of Patients

- Approximately 750 patients.
- Followed Department of Health and Human Services Guidelines.
 - Patients seen 2-8 weeks after ART initiation
 - Then every 3 months
- <u>Multidisciplinary case staffing to discuss difficult to manage cases.</u>
 - Worsening viral loads or CD4 counts
 - Out of care
 - At risk
- Team based approach.
- Responsibility assigned to a team member for next steps.
- Reviewed at next meeting along with new cases.



Clinic Expansion

- 3 board certified in infectious diseases MDs
- 1 ARNP
- 2 medical assistants
- 2 clinical specialty nurses
- 3 medical case managers
- 1 practice manager
- 3 "patient access secretaries" or "business office representatives"

- 1 licensed clinical therapist from outpatient behavioral health
- 1 peer advocate
- 1 disease management nurse practitioner
- 1 part-time clinical pharmacist
- 1 full time clinical pharmacist
- 2 pharmacy student interns



Current Care of Patients

- Currently a Test and Treat site (also known as same-day ART initiation or rapid ART initiation).
 - Testing done at all clinics and emergency departments.
 - Patients who test positive see a provider on the same-day.
 - Labs are drawn.
 - Antiretroviral therapy dispensed (first dose taken at office).

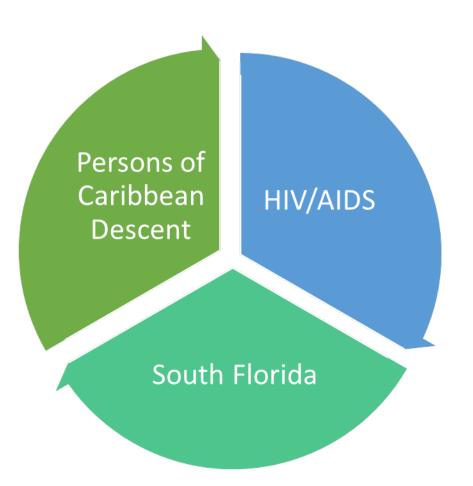


Recommendations

- Policy and guideline making agencies as well as researchers should create interventions to specifically target.
- Patients in this population should always have access to a health care team.
- The impact of the epidemic on persons of Caribbean descent living with HIV/AIDS in the US must be explored thoroughly.
- Sample from other cities throughout the US



Recommendations





Limitations

- Sampling
 - Convenient
 - Could only find 115 available cases
 - Only adults participated
 - Patients recruited from one clinic
- Data collection
 - Self report
 - Compensation
 - Translator used in a few cases



Obtaining CME/CE Credit

If you would like to receive continuing education credit for this activity, please visit:

http://ryanwhite.cds.pesgce.com



Acknowledgements

Co Investigators – Dr. Rabionet, Dr. Elizabeth Sherman, Dr. Paula Eckardt

Healthcare team at Memorial Healthcare System

Funding and collaboration agencies

- Mentoring Institute for HIV and Mental Health Research (NIH/NIMH Grant #5R25MH083617)
- Health Professions Division Research Committee

The patients that participated in this research

All students that participated in my research



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