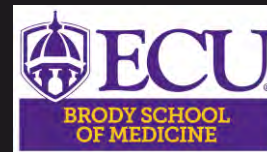


*MULTI-YEAR,
MULTIDISCIPLINARY TEAM
QUALITY IMPROVEMENT
APPROACH:*

*IMPROVING HIV
TREATMENT ADHERENCE
AT EAST CAROLINA
UNIVERSITY HIV PROGRAM
CLINIC*

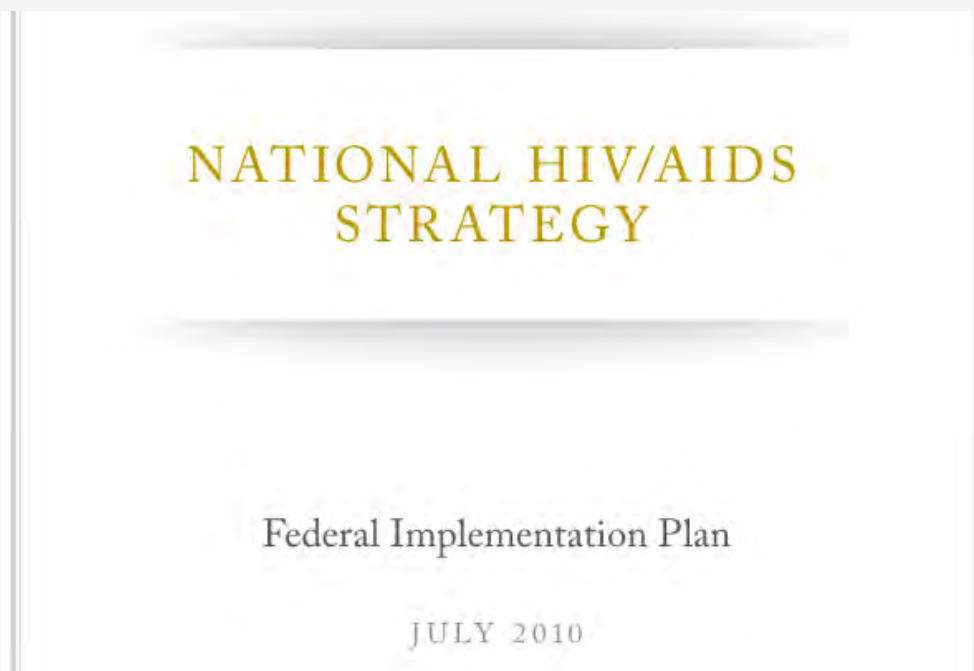
*Diane Campbell, MD, MPH, RN
Unified Quality Improvement Symposium
January 31, 2018*



VIDANT HEALTH

A Multidisciplinary, Team Approach was needed to Improve HIV Treatment Adherence

- ▶ Only 60% of clients getting care at ECUHIVP achieve viral load suppression (VLS).
- ▶ Clients who are viral load suppressed:
 - ▶ Have fewer complications related to HIV disease
 - ▶ Have normal life expectancy compared to HIV-negative persons
 - ▶ Do not spread HIV infection
- ▶ The HIV/AIDS Bureau (HAB) and the National HIV Strategic Plan 2010 set goals for 85% VLS, and ECUHIVP was not meeting goals.



Collaborative Work with Team Members



- ▶ **Dr. Diane Campbell** – Quality Management Administrator
- ▶ **Ciarra Dortche** – Quality Management Coordinator
- ▶ **Barry White** – Quality Management Data Manager
- ▶ **Dr. Nada Fadul** – HIV Clinic Medical Director
- ▶ **Quality Management Committee** – All ECUHIVP staff

Why is this QI goal Important?

- ▶ ECUHIVP receives Ryan White Federal and State funding to provide HIV care services and are required to meet HIV/AIDS Bureau (HAB) clinical performance measures including VLS and RIC.
- ▶ The National HIV/AIDS Strategy (NHAS) 2010 outlined goal for HIV disease management in US including improving health outcomes (i.e., VLS and RIC)
- ▶ ECUHIVP wanted to improve VLS and RIC rates to meet HAB and NHAS goals of 85% by 2016 from 60% VLS, 64% outpatient/ambulatory medical visits (O/A), and 50% viral load in 2011.

ECUHIVP Baseline Data

N.C. HIV/AIDS Bureau (HAB) Measures and Goals

HAB Measure #	State and National Goal	ECUHIVP HAB 12/2011	ECUHIVP Goal by 2016
HAB 01 2 medical visits in 12 months monitored period	85%	64%	85%
HAB 02 2 VL/CD4 tests in 12 months monitored period	85%	50%	85%
HAB 04 Viral Load Suppression	85%	60%	85%

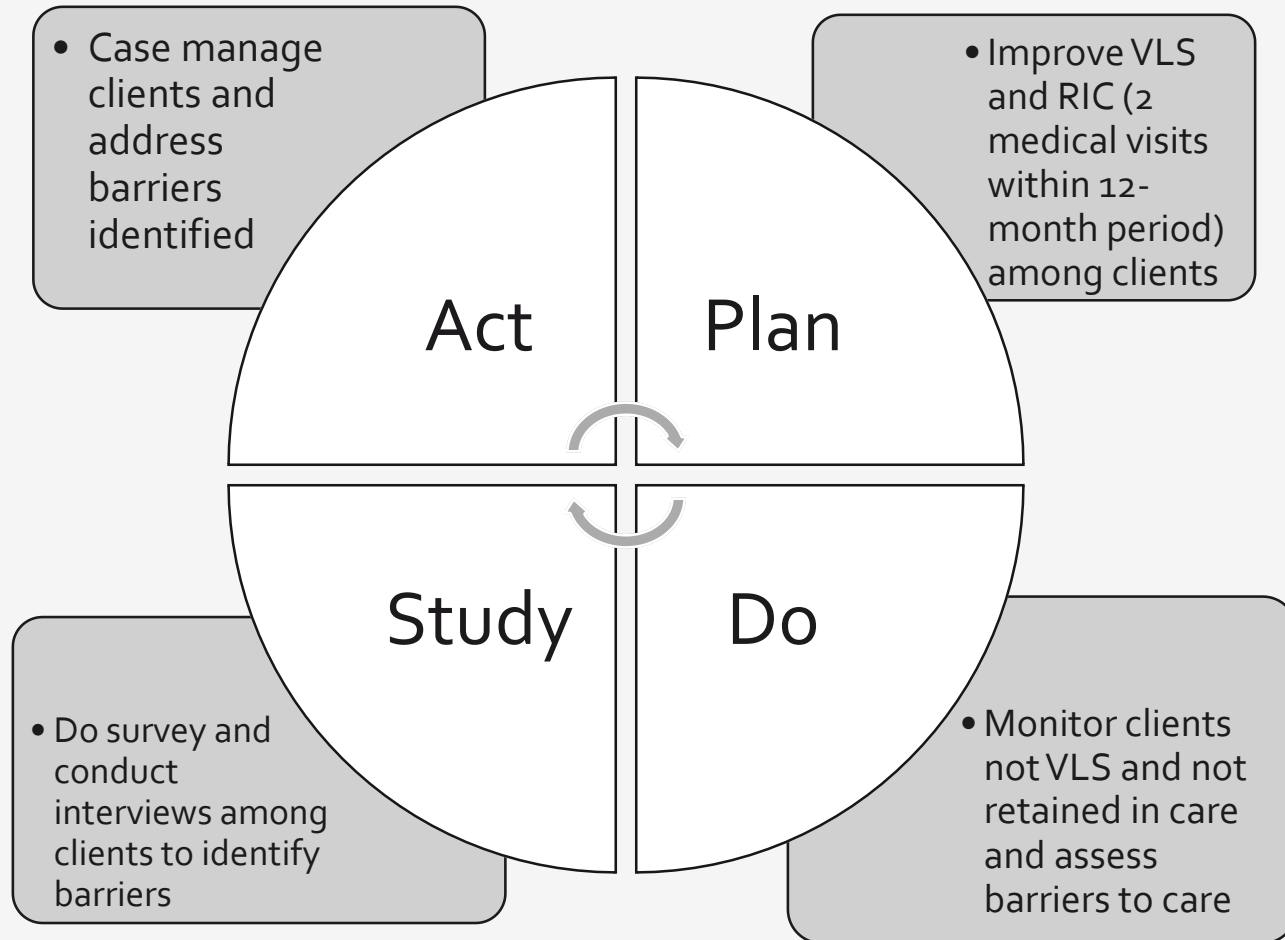
AIM Statement



“By the end of 2016, 85% of clients receiving HIV care at ECUHIVP clinic will have achieved viral load suppression (*i.e.*, ≤ 200 copies) remain retained (*i.e.*, 2 O/A medical visits and viral load lab in 12-month period) in HIV care.”

Improvement Strategies

Use PDSA Cycles to Improve Outcomes



Client-Identified Barriers and Resolutions

Client-Identified Barriers

- ▶ Lack of HIV disease education and importance of HIV medication
 - ▶ Lack of transportation to providers appointments
 - ▶ Substance abuse and mental health (SA/MH) illness
 - ▶ Many social barriers to care: lack of stable housing; rent and food insecurities; and other medical co-morbidities
-

Resolutions Implemented


- ▶ Structured HIV/medication education modules developed
- ▶ Funding and processes developed to provide transportation assistance
- ▶ Hired full-time on-site SA/MH counselor hired
- ▶ Medical Case Management developed to help clients with chronic disease self management

Client-Identified Barriers and Resolutions

Client-Identified Barriers

- ▶ Clients leave office without next appointment
 - ▶ Side effects of HIV medications
 - ▶ Lack of motivation to keep appointments or take medications
-

Resolutions Implemented


- ▶ Client contacted to make appointment within 48-72 hours of past provide appointment
 - ▶ Hired Medication Adherence Clinical Pharmacist
 - ▶ Trained staff in Motivational Interviewing and Chronic Disease Self-Management
- 

Structural Barriers Identified and Addressed

Structural Barriers

- ▶ Provider appointment schedules open only 6 months in advance
 - ▶ HAB - Provider appointments Q6 month
 - ▶ Not getting labs drawn after provider visit
-

Resolutions Implemented


- ▶ Provider appointment schedule open up to 14 months in advance
 - ▶ Front desk schedules appointments 5 and 11 months from medical visit
 - ▶ Full-time on-site phlebotomist
- 

Structural Barriers Identified and Addressed

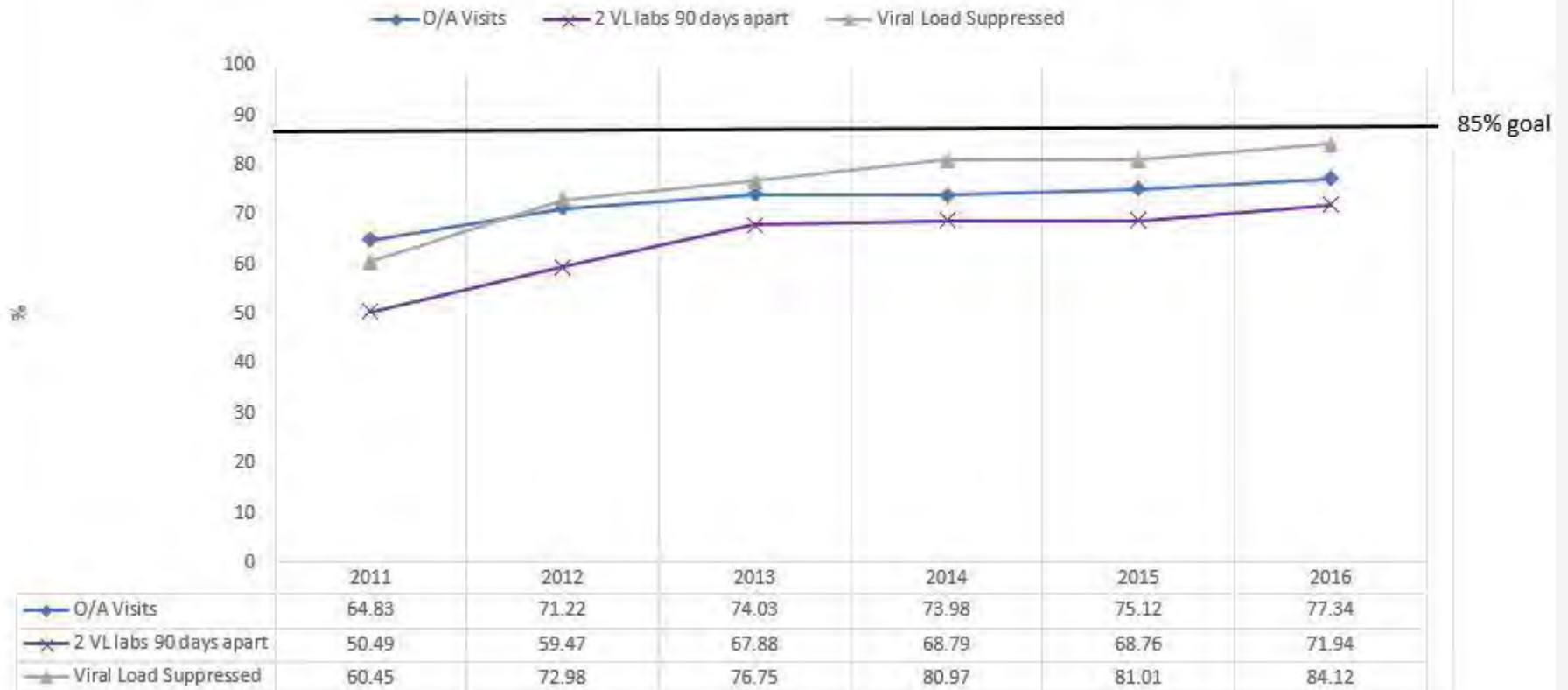
Structural Barriers

- ▶ Clients getting HIV medication without follow-up provider appointment
 - ▶ Clients have multiple no-shows to provider appointments
 - ▶ Appointment bumps made by provider are rescheduled without client's input
-

Resolutions Implemented

- ▶ Nursing Protocol developed to limit HIV medication refills
 - ▶ Client flagged as 'high risk for no show' in EMR; only MCM can schedule appt.; client called multiple times with appt. reminders
 - ▶ Clinic Productivity Coordinator position developed to reschedule these appointments
- 

ECU 2011-2016 O/A VISITS, VIRAL LOAD LABS, AND VIRAL LOAD SUPPRESSION



Challenges Encountered in QI Process



- ▶ Some staff did not want to participate in QI activities. QI participation was made part of everyone's job description.
- ▶ Clients not-VLS have multiple barriers that need to be addressed to priorities their health care: A team of medical case managers was developed to help clients address barriers.
- ▶ Staff needed QM/QI training: QI Training at our monthly meeting provided
- ▶ Staff needed tools to help client's change behavior: Administration invested in staff motivational interviewing training: now in 3rd year

Lessons Learned Through QI Efforts

Greatest Lessons Learned:

- ▶ Even QI teams can become frustrated with the slow pace of change and need QI process education, input from administrative team, and acknowledgement that their QI effort is valuable.
- ▶ Staff can be resistant to clinic structure changes. Change process can be slow and there is no short cuts or quick fixes.

Greatest Failure:

- ▶ Although we achieved 85% VLS for all clients, sub-populations of Black/African American men who have sex with men have less VLS achievement (82%)
-

Next Steps

2018-2020 QI Goals

- ▶ Increase VLS of all clients in clinic to 90% by 2020 from 85% in 2017
- ▶ Increase VLS of Black/African Americans to 85% by 2020 from 82% in 2017
- ▶ Improve VL suppression of young Black MSM to 85% from 81% in 2017

Sustainability

- ▶ Structured QM Plan include monitoring QI activities monthly
 - ▶ Generate quarterly QI progress report to be submitted to State and Federal Grantors, ECUHIVP QI team, and regional stakeholders
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Questions?

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