

Impacting the Cascade: Drilling Down Data to Improve Patient Care

RWPs in NQC's Regional Groups in

E. Pennsylvania, Massachusetts and Mississippi
Liz Brown, Katey Ruppert, St. Luke's UHN, E. Pennsylvania
Kawanis Collins, Tonya Green, SeMRHI, Mississippi
Paul Cassidy, Greater New Bedford CHC, Massachusetts
Nanette Brey Magnani, NQC Coach



Welcome!Welcome!



Can "Better Become Best?"

Results

What is Best? Is it 75% 85% 95% 100%

Process

What is the "Best" Continuous Quality Improvement Process?



Outcomes

• Understand a tested process improvement intervention to using drilled down data to increase VL suppression (and retention).

• Share results across multiple states and from several RW programs with varying caseload sizes.

Overview

- Rationale
- How to drill down data
- Interventions: Targeted interventions to improve Care and MCM Coordination
- Results
- Key Learnings
- Large Group Q&A

Drilling Down Data – WHY?

To have an in-depth understanding of patient barriers to care





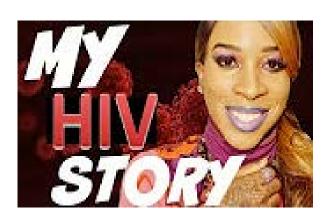
Which comes first? Analysis of

Disparity Data

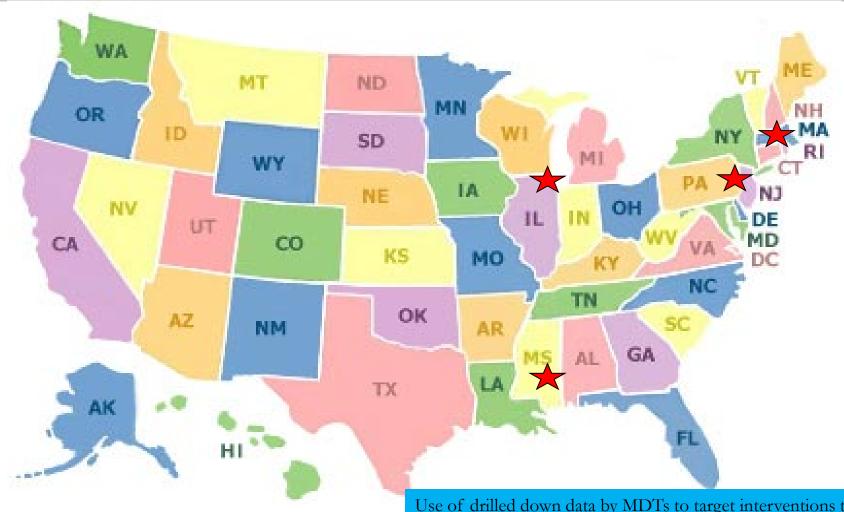


or

Patient Level Reasons







Use of drilled down data by MDTs to target interventions to increase VL suppression across multiple states – 10 RWHAPs Caseload range: 150 - 4,000

How to Drill Down Data Who are the 20% - 30%? How To Find Out?



What is Drilling Down the Data?



It is a process of analyzing your patient care data in increasing detail to understand who is meeting performance measures and who is not



The information on these slides are taken from and adapted from NYSDOH AIDS Institute, "Drilling Down Data To Understand Barriers to Care," 2/2015. For more information: hivguidelines.org

Why Drill Down the Data?

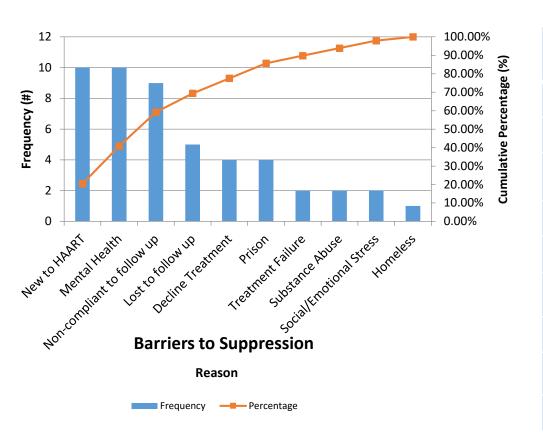
- Helps identify barriers to care
- Helps look beyond the numbers
- Helps identify areas for improvement
- Encourages involvement from all clinic team members
- Helps to improve care in the clinic



Four Steps to Drilling Down the Data

- 1. Develop a list of patients who do not meet the defined criteria (not suppressed) of your measure
- 2. Identify reasons why each patient is not during a Multidisciplinary Team Meeting (MDT) with everyone participating
- 3. Tally the reasons
- 4. Develop targeted follow-up plans to address the most common or relevant issues by staff members agreed upon during the MDT meeting

Two Ryan White HIV/AIDS Programs (RWHAP) E. Pennsylvania and Mississippi



Reasons	Total
Non-Compliant	15
Newly Enrolled	9
Mental Health	6
Transferred	6
Re-Entered Care/Meds Restarted	3
Waiting on Lab Results	3
Deceased	1
Resistant	1
Other	1 (incarcerated)

St. Luke's University Hospital Network

Magnolia Medical Center



Prioritization Strategies – By Disparity Group

Key Populations

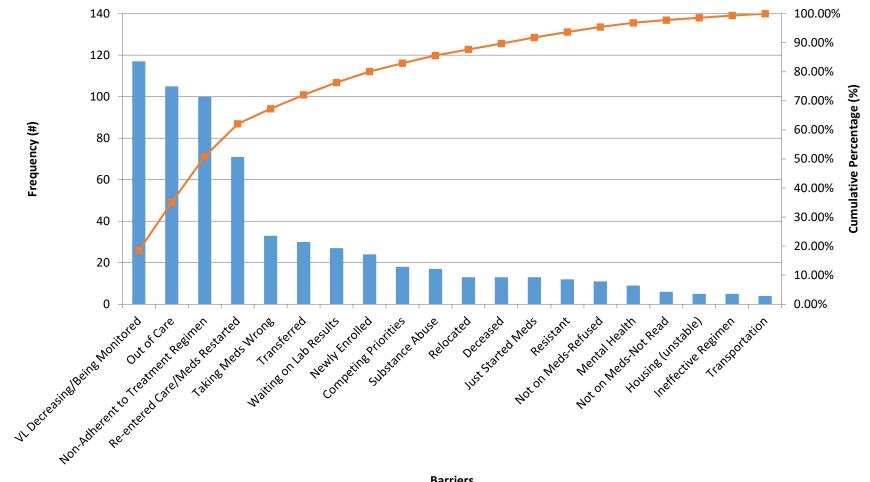
Key Population	Barrier	# of Patients
Men Who Have Sex with Men	Transportation	4
	Unstable Housing	6
	Insurance	1
	Disclosure Issues	11
	Refuses Treatment	1

Mississippi Statewide Barriers Root Causes for Non Suppression

5 RW Programs
Total HIV caseload:
Total non suppressed <200:
633 patients – 56*= 577

<u> </u>	
Reasons	Total
Non-Adherent to Treatment	100
Regimen	
Not on Meds- Refused	11
Not on Meds- Not Ready	6
Ineffective Regimen	5
Resistant	12
Re-entered Care/Meds	71
Restarted	
Taking Meds Wrong	33
Waiting on Lab Results	27
Transferred*	30
Relocated*	13
Deceased*	13
Out of Care	105
Just Started Meds	13
VL Decreasing/Being	117
Monitored	
Newly Enrolled	24
Substance Abuse	17
Mental Health	9
Competing Priorities	18
Housing (Unstable):	5
Transportation	4





Step 4: Develop a Targeted Follow-Up Plan

- 1. Using data from steps 2 and 3, identify that are most critical to patient health and that affect most patients
- 2. Develop a plan to address these issues
- 3. Consider prioritizing your follow-up by examining the needs of key populations or by individual patients
- 4. Report out the progress/status of patients at multidisciplinary team meetings
- 5. Document.



Benefits

- 1. Your clinic will be able to serve those most in need by tailoring activities to best meet those needs
- 2. Your clinic will be more likely to achieve improvement
- 3. Your clinic can target resources more wisely
- 4. Foster ongoing relationships with patients by meeting their needs
- 5. Improve overall engagement in care



Targeting Interventions to Improve Care and Case Management Coordination

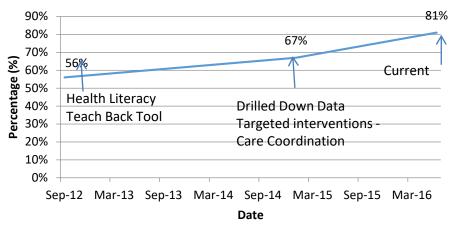
QI Process

- Continuous use of drilled down data by a multidisciplinary team
- Target patient or sub population level interventions
- Continuous measurement of results to effect outcomes
- Continuous tweaking of managing coordination of interventions

Increasing Viral Load Suppression Rates

Reasons	Total
Non-Compliant	15
Resistant	1
Re-Entered Care/Meds	3
Restarted	
Waiting on Lab Results	3
Transferred	6
Deceased	1
Mental Health	6
Newly Enrolled	9
Other	1 (incarcerated)

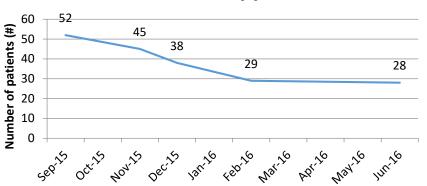
Viral Load Suppression Rates Across Interventions



Process and Interventions- Care Coordination

- ***Pro. Coordinator-**Print list of clients not suppressed
- *NP and Pro. Coordinator- review list &compare to lab results; start HART
- *SW/Case Manager- reminder calls for apt, arrange transportation to apt, pharmacy verification of pick up
- *Data Clerk -Check data for errors
- *Multidisciplinary Team: ongoing adherence education and address barriers

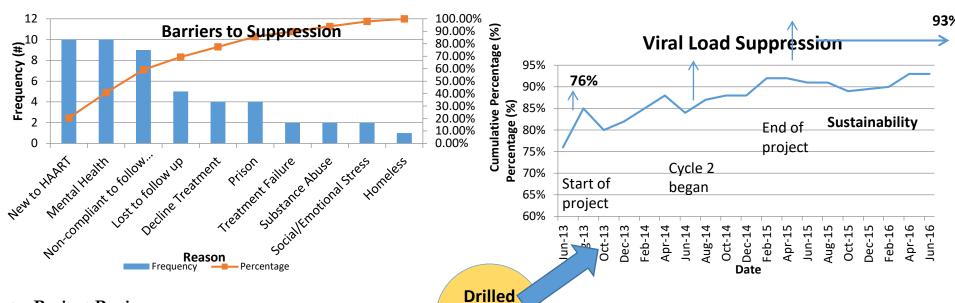
Patients Not Suppressed







AIDS Services Center: Viral Load Suppression QI



Down

• Project Review:

1. Created Fishbone & Driver diagrams to identify barriers to vira suppression

- 2. Utilized CAREWare to identify non-suppress patients (not in numerator)
- 3. Categorized patients by barriers to identify which barriers impact VLS the most
 - Pareto diagram to analyze data -above
- 4. Interventions tested with a PDSA for 5 of the largest barriers to VLS

SUSTAINING Improved Care Coordination:

- · Continually drilling down data
 - Review "not in numerator" list monthly
 - Identify ("drill down") barriers to suppression and utilize project interventions, as needed
 - Involve entire multidisciplinary team in drill-down efforts as part of program protocol

Mental Health Barriers and Impact on Delivery of Care

Establish guiding frameworks for patient-centered care & quality improvement

Population health

Cultural competency



Identify mental health as important barrier to viral load suppression & respond with CQI tools

Root cause analysis

PDSA & direct work w/ staff



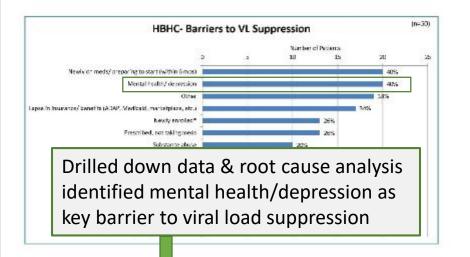
Integrate mental health support & options into primary care

Accessible, responsive care

Harm reduction



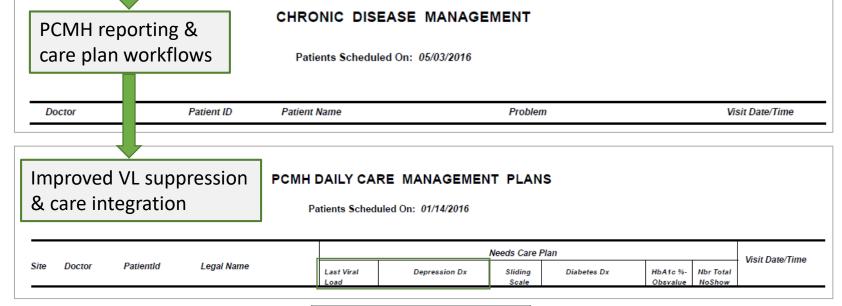
Site 4: Howard Brown Health Center



Howard Brown Health RW CQM

- Root cause analysis Drilled down data
- PDSA/QI cycles Process improvement
- User-friendly reporting infrastructure
- PCMH integration Care planning

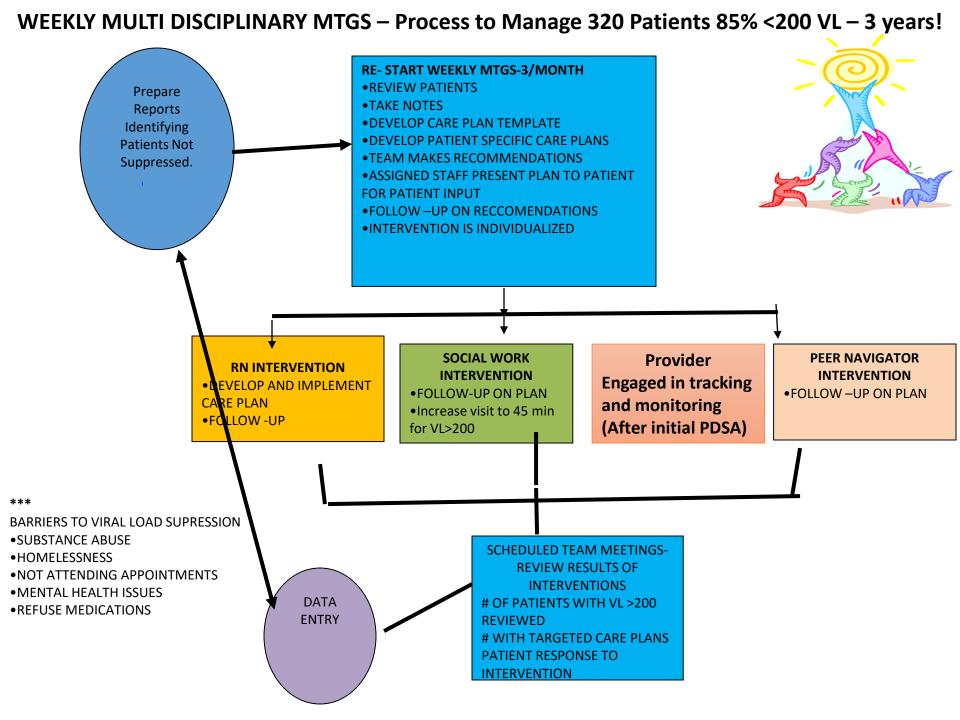
Measurement Period	Viral Load Suppression	
10/1/2014 – 9/30/2015	80.45%	
4/1/2015 – 3/31/2016	83.30%	





What Does It Take to Sustain Improved Patient Outcomes?

- Use of drilled down patient level data to target interventions and improve management of:
- care coordination
- medical case management



Sustained Continuous Improvement of VL Suppression

Nov 2012	Feb 2013	July 2013	Jan 2014	May 2014	Jan 2015	July 2015 44pts	July 2016 24pts
74%	76%	81%	84%	86%	86%	86%	92%

Intervention: Care Coordination by Multi Disc Team

Caseload: 350

- Drilled down data to identify patients <200 •
- Development of tailored Care Plans
- Assigned specific staff
- Approx 20 pts at a given time for team

- RN: Side Effect Mgt-Pill boxes weekly/monthly
- Peers: face to face or telephone coaching
- Peer Support/Youth Support
 Groups emotional support
- SWs: Partner Notification support; MH assessment and referral; SA assessment and referral



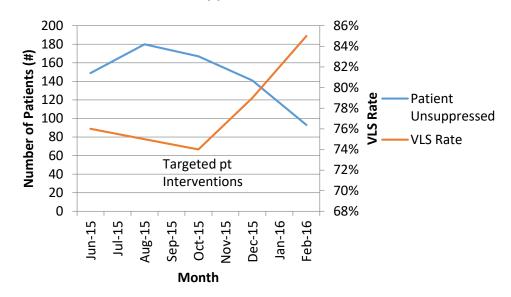
Sustaining Continuous Improvement in Care Coordination June 2016



Targeted Interventions

- teach-back tool,
- daily patient huddle (multidisciplinary approach),
- re-engage out of care patients,
- new LCSW in February 2016 to address behavioral health issues impacting adherence and retention.
- July 2016 to provide intense medical case management (MCM) to address barriers of non suppressed pts.

Number of Unsuppressed Patients vs. VLS Rate



Improved MCM

Sustaining Interventions and Outcomes

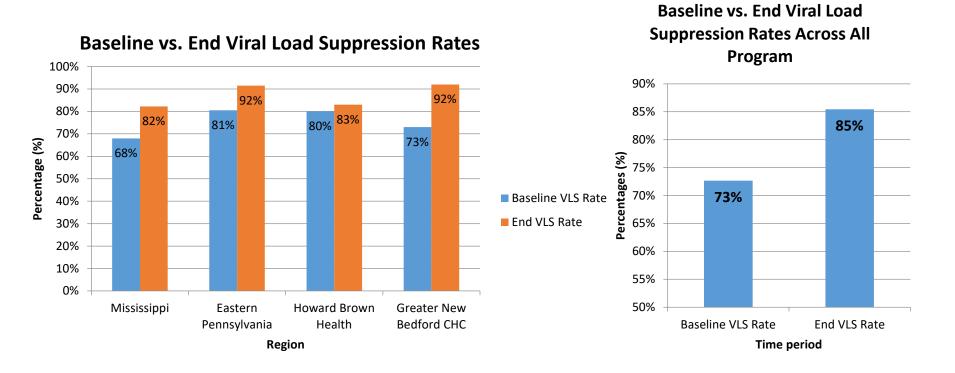
above 90% VL suppression

Outreach	Case Management	Treatment Adherence Counseling	Financial Counseling	Social Work
 Lost to Care No phone No phone response Missed appointmen ts Not virally suppressed 	 Intensive support for accessing services Paperwork help Needs EFA Needs housing assistance 	 Comes regularly Needs mental health services Not virally suppressed 	 ADAP/ Insurance lapses Not compliant due to financial issues Needs ongoing financial support 	 Has immediate need Needs mental health referral No need for case management

Is this Approach Evidence- Informed?

- Use of drilled down data by multidisciplinary teams to target interventions
- A method or technique that:
 - Has consistently shown superior results,
 - Is replicable implemented across RW programs in varied locations rural, urban; south, north, central US; different size patient caseloads, and
 - Can be benchmarked.

Results of Improving Care and MCM Coordination: 10 RWHAPs across Chicago, EPA, MA, and MS



MS Statewide Care Coordination – Peer Exchange of Successful Interventions

Using Drilled Down Data to Target Interventions	Total: 5 MS RWPs
Transportation	5
Assist with co-pays	4
Mail order meds	3
Reminder calls	4
Pill planners	3
Mental Health Services (psychiatrist)	4
Housing assistance	2
Extra adherence education,	4
Health Literacy Teach Back Adherence	
Tool	
Targeted Provider communication	3
Pharmacy verification of meds	3
Refer patient out of care to District SWs	3
Home visits	2
Clinical team response to medication	1
problems	
Alarms set on patient phones	2

Benefits and Learnings

- Important not to lose bigger picture of ending the epidemic
- More in-depth understanding of our patients
- Expand staff experience in QI and therefore buy-in
 - Data and interventions are integrated into morning huddles
 - Data and results are shared at consumer meetings
- A lot of work, but rewarding to team and patients
- Increasingly allows more time for patients not suppressed
- Continuous process and analysis of data
 - Ex. resulted in hiring bi-lingual peer
- Tweaked ARTAS (evidence-based) to meet needs of sub population those below the poverty level



Large Group Discussion – Q&A

Acknowledgement, Presenters and Contact Information



Meagan A. Ellzey, LCSW

Special Populations Program Manager

Coastal Family Health Center

P.O. Box 475

Biloxi, MS 39533

228-374-4991 X 1219

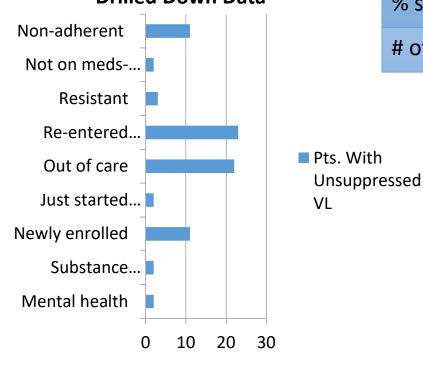
mellzey@coastalfamilyhealth.org



Viral Load Suppression

Viral Load Suppression: Strive for 80% of patients to achieve VL suppression.

Reasons for Unsuppressed VL-Drilled Down Data



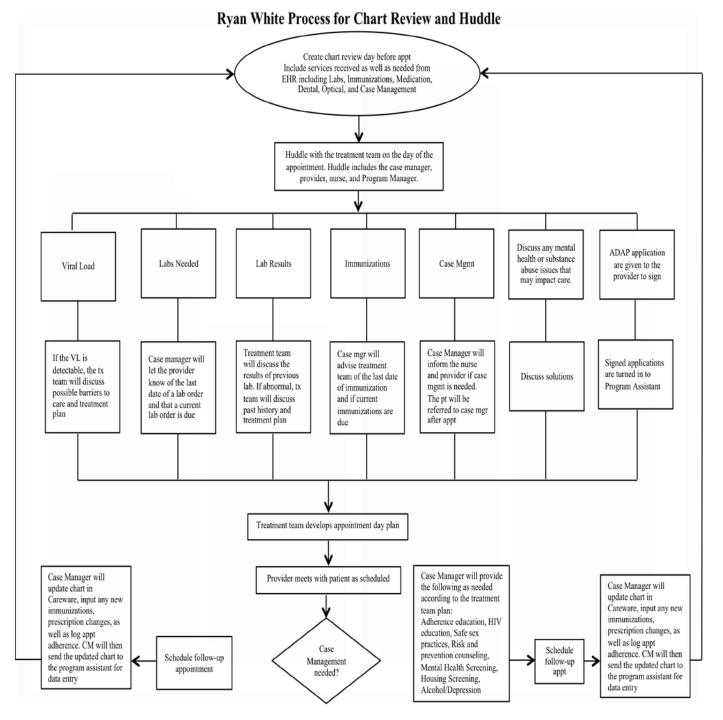
	Baseline	Post intervention
% suppressed	77%	85%
# of patients	121	77

Interventions – Care Coordination

- Medical Case management interventions (HIV & adherence education, addressing barriers to care, etc.)
- Engaging those who are out of care or are soon to be via outreach efforts

Next Steps

- Discuss non-adherent pts. cases in depth during morning huddles to address possible barriers
- Ensure frequent VL monitoring
- Follow-up with pts. either noncompliant or out of care.



Coastal FHC in Biloxi, MS.

Thus far, a subgroup has met outside of the huddle to identify list of patients not suppressed to agree on a follow up plan to help patients keep their appointments.



Chad Neal, Program Director

Crossroads Clinic North

313 Arnold Avenue

Greenville, MS 38701

cneal@deltaregional.com

PH: 662.332.1398; FX: 662.332.7107

VL Suppression: Interventions and Results

Baseline	District SW/DIS	Care Coordination
65%	69%	80% (164/205)

Reasons	Total 41
Non-Adherent to Treatment Regimen	17
Re-entered Care/Meds Restarted	0
Waiting on Lab Results	0
Transferred	1
Relocated	0
Deceased	2
Out of Care	8
Just Started Meds	2
VL Decreasing/Being Monitored	8
Newly Enrolled	2
Mental Health	1

Targeted Interventions – Improving Care Coordination

Out of Care – continue partnership w DSWs and DIS
Non-Adherent to Treatment Regimen – team
approach to discuss concerns w patients
VL Decreasing – monitor patients; check in
Mental Health – partner with client's caregiver to
support importance of medication adherence,
distribute pill bottle alarm as a medication
reminder

nique LAST OPENED Indicator

10:15 AM

Delta Regional



Shannon L. McElroy, M.S.

Caring Together Program Manage

Family First Health

116 S. George Street

York, PA 17401

Phone (717) 846-6776 Ext. 4828; Fax (717) 846-8108

smcelroy@familyfirsthealth.org

Family First Health Retention QI Project

Measure	Initial (As of 7/1/14)	Goal	Actual (As of 6/30/16)
Medical visit frequency	70.60%	75%	81.22%
Viral load suppression	85.44%	maintain	90.04%

Improving Care Coordination:

Sub population Intervention: ARTAS – tweaked for sub-population

Policy changes: 5-month limit on medication refills; no refills if lab work incomplete

Process changes: quarterly review of Out of Care client list at provider meetings; weekly huddles to discuss all clients scheduled for a visit; use of DOH field staff to locate clients

Expected consequence: increase in VL suppression rates!

Drilled down retention by

•	Age	•	Poverty level
•	Risk factor	•	Ethnicity
•	Gender	•	Site (FFH vs sub- contractor)
•	By provider		

Results

No disparity except 75% out of care were

under 100% poverty - Sub population of Focus



Paul Cassidy, Sr. Program Manager pcassidy@gnbchc.org





Ryan White Clinical Quality Improvement

QI Project Example: Mental Health & Viral Load Suppression

Kelly Sellers, Quality Improvement Coordinator kellys@howardbrown.org

Howard Brown Health – Chicago, Illinois



A MEMBER OF THE GREENWOOD LEFLORE HOSPITAL CLINIC NETWORK

The Convenience of a Clinic, the Resources of a Hospital

Kawanis L. Collins, BSW

Program Coordinator, Ryan White Part C Program

Magnolia Medical Clinic

1413 Strong Avenue

Greenwood, MS 38930

kcollins@glh.org

662-451-7384 phone; 662-459-1203 fax



Rebecca Geiser, Aniam Iqbal

REACCH Program Manager

2501 N. 3rd Street

Harrisburg, PA 17110

717-782-2363

rgeiser@pinnaclehealth.org



Elizabeth Brown, BSN, RN browne@slhn.org

AIDS Services Center





Southeast Mississippi Rural Health Initiative, Inc.

> A Network of Community Health Centers

Tonya Green, MPH, ACRN

Director of Social Services/Ryan White Part C Program Coordinator

Southeast Mississippi Rural Health Initiative, Inc.

66 Old Airport Road/Post Office Box 1706

Hattiesburg, MS 39401

601-582-2619

Ashley N. Smith, RN, BSN Medical Case Manager Adult Special Care Clinic University of MS Medical Center

2500 North State Street

Jackson, MS 39216

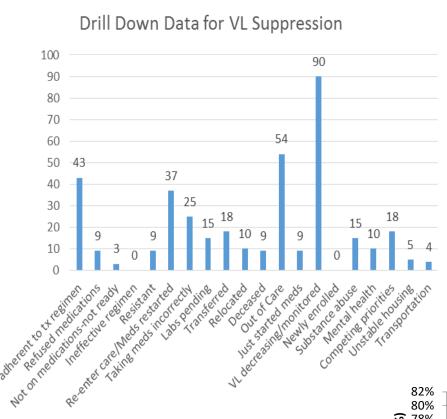
Office: 601-984-4162 Fax:

601-815-3123

ansmith@umc.edu

ummchealth.com





Increasing VL Suppression March 2016 – Data analysis excluding transferred, relocated, deceased.

% suppressed

of pts 383 330

Interventions

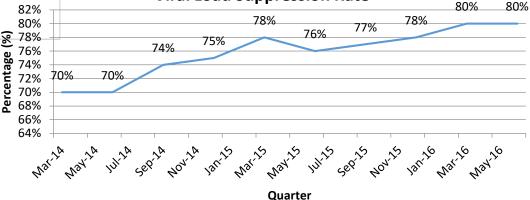
March 2014 – Adherence Tool

March 2016: =refer out of care patients
to MSDH for re-engagement

79%

81.6%





Viral Load Suppression Rate

Acknowledgements and Additional RG Members Achieving above 80% and 90%

- Katey Ruppert, St. Luke's University Hospital Network, PA
 - Excel support for this presentation
- Mississippi SDH ongoing strong support and leadership of QI
 - Chloe Bernard, James Stewart, Stephanie Hedgepeth

Achieving above 80% and 90% using drilled down approach

- EPA RG additional members
 - Glen Young, RWP Director, Center for Public Health, Reading above 90%
 - Diane Morrow, RWP Director, Keystone Migrant HC above 90%
- Mississippi Statewide QM Group GA Carmichael CHC- above 80% not in data analysis
- MA Statewide QM Group additional members—above 90%
 - Adrianne Jiles, Data and QI Coordinator, Holyoke HC
 - Susan Finnegan, RN, RWP Director, Julie Talbot, Data Manager, Lynn CHC

National Quality Center

Special acknowledgement to Anna Lechowska, QI/Data Coordinator, Arnot Ogden Medical Center, Elmira, NY for her seminal work in this area and maintaining a VL suppression rate of 93-95%

and to

Nanette Brey Magnani, EdD, Quality Coach, Chicago RWPs, EPA RG, LA Statewide QM Group, MA Statewide QM Group, MS Statewide QM Group breymagnan@aol.com, 508-875-0290

212-417-4730

National Quality Center.org