

# A Model for Providing Quality HIV Ambulatory Care in a Rural Setting

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# Three Areas of Focus

1. **Background, Model explanation, How differs from traditional**
2. **Clinical care – How it is done from the nurse who is doing it**
3. **Educational for providers – Learning while providing care**

# Before We Begin...

- Audience Response System
- Why we are using it
- How it will work
- 2 “practice” questions

# What does a phobophobe fear?

1. Strobe Lights
2. Fear
3. Words that start with “ph”
4. Paperwork



# What is triskaidekaphobia?

1. Fear of falling from the deck of a ship
2. Fear of the number thirteen
3. Fear of being at risk for AIDS
4. Fear of dinosaurs



# Your Primary Role...

1. Care Provider (MD, PA, APN, RN, SW etc)
2. Administrator
3. Consumer
4. Case Manager
5. Educator
6. Other

# Your Ryan White Part Affiliation...

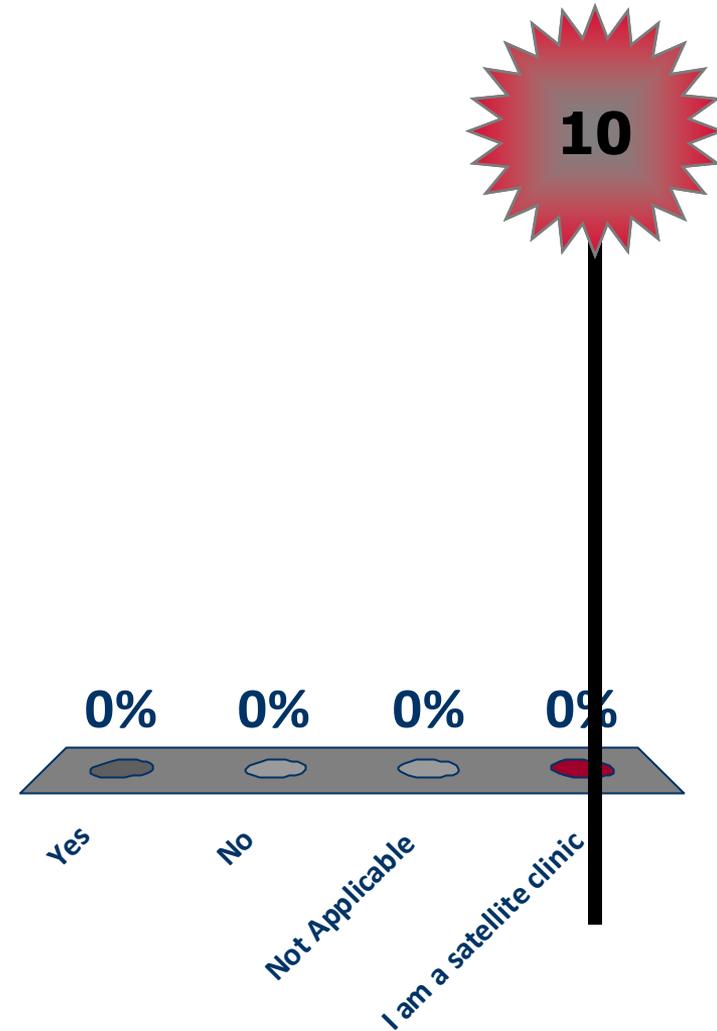
1. Part A
2. Part B
3. Part C
4. Part D
5. Part F
6. Combination of at least 2 above choices

# Your Work Site Location...

1. Rural
2. Urban
3. Don't Know

# Do you have a satellite clinic?

1. Yes
2. No
3. Not Applicable
4. I am a satellite clinic



# Background



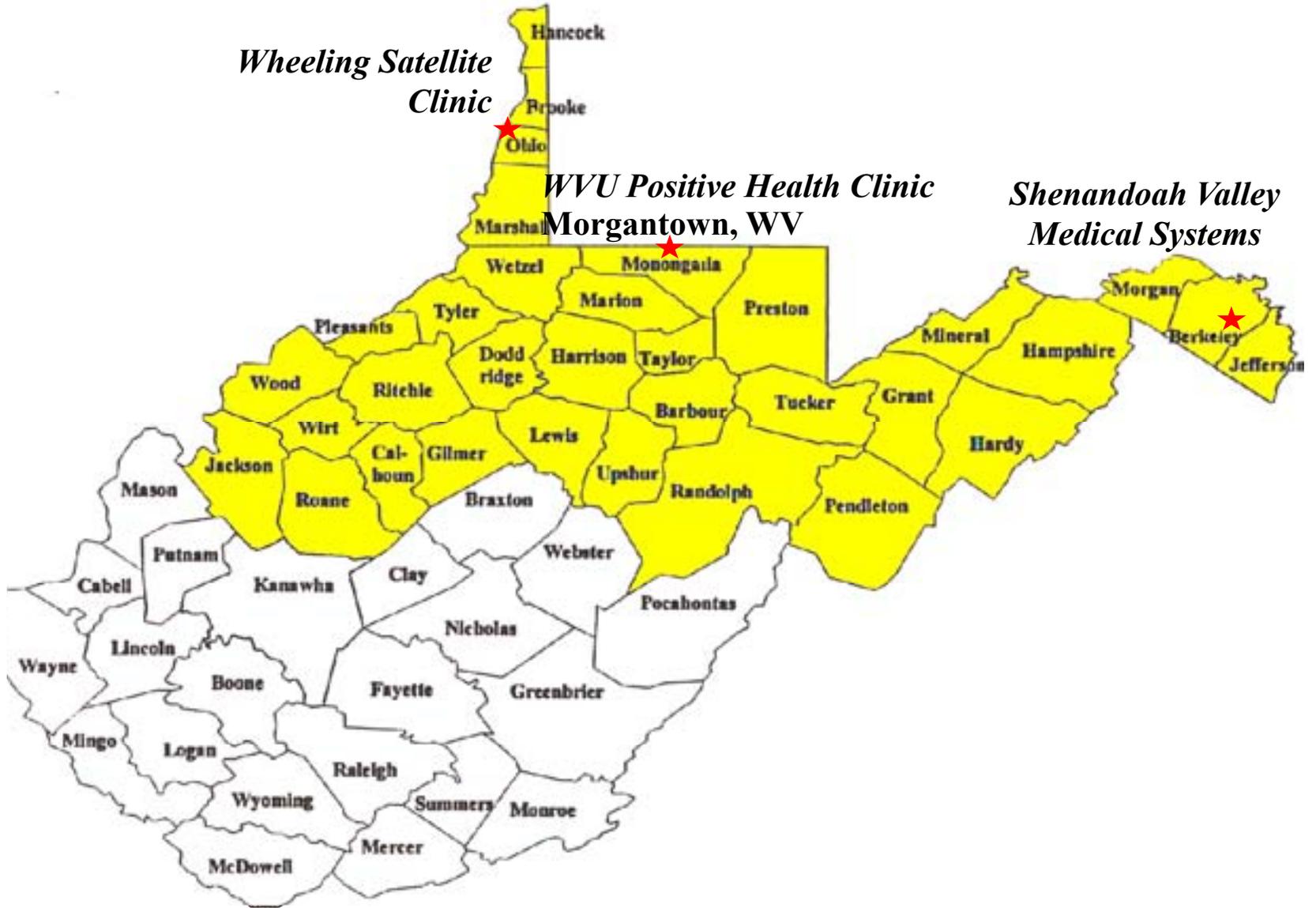




**Robert C. Byrd Health Sciences Center of  
West Virginia University**

- **2001 Planning / Capacity Building Grants**
  - **WVU - 25 counties**
  - **SVMS – 8 counties**
- **2003 EIS Grant awarded to WVU for 33 counties**





*Wheeling Satellite  
Clinic*

*WVU Positive Health Clinic  
Morgantown, WV*

*Shenandoah Valley  
Medical Systems*

**Traditional model**

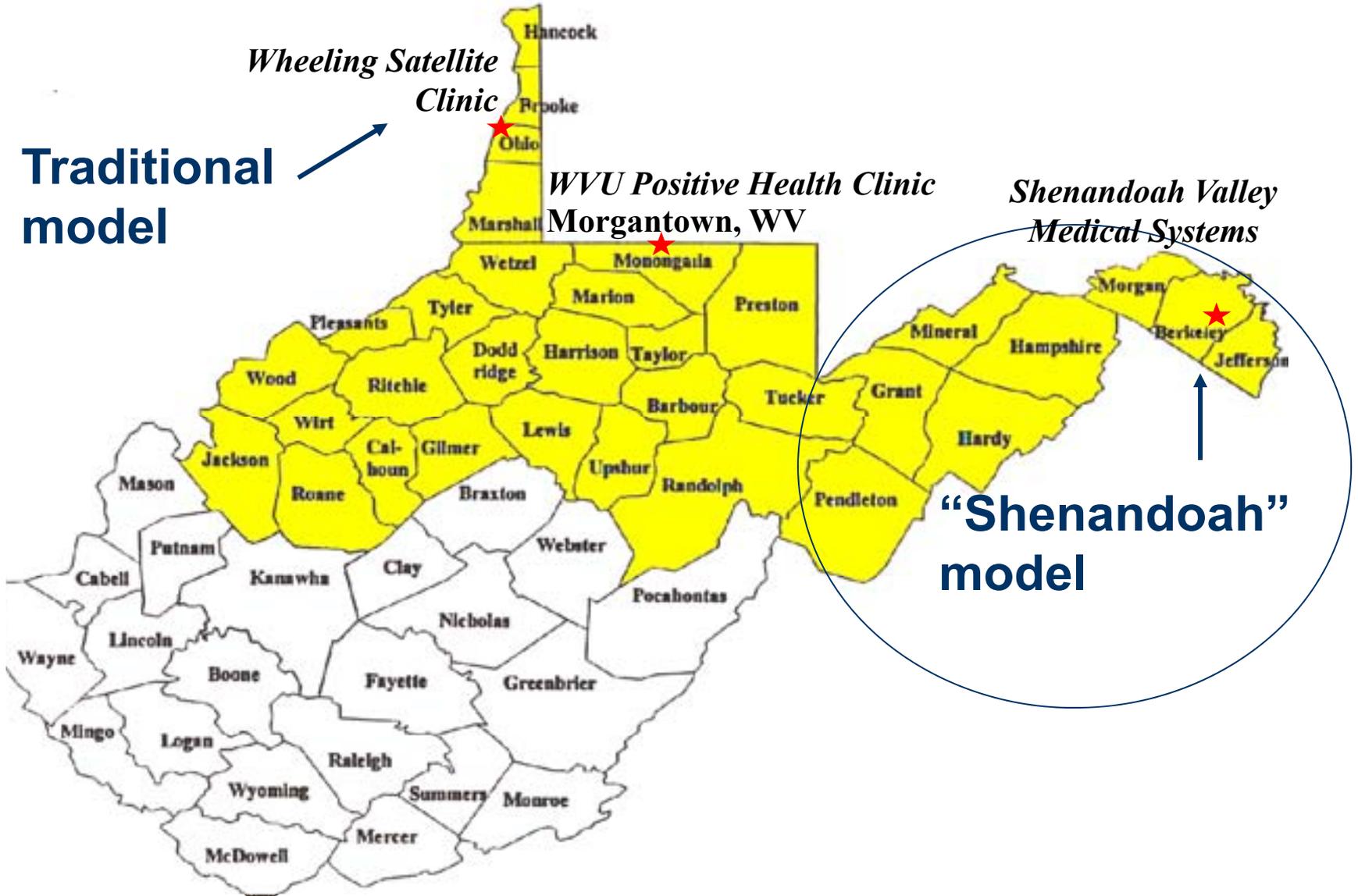
*Wheeling Satellite Clinic*



*WVU Positive Health Clinic  
Morgantown, WV*

*Shenandoah Valley Medical Systems*

**“Shenandoah” model**



# The “Shenandoah Model”

## Shenandoah Community Health Center

*A Part of Shenandoah Valley Medical System, Inc.*

20 Years of Leadership  
A LEGACY OF CARE



2018 RYAN WHITE ALL GRANTEE MEETING AND 10TH ANNUAL CLINICAL CONFERENCE

# Comparison

	Traditional	Shenandoah
Travel required	Yes	No
Care provided by Grantee	Yes	No
Time required	> 1 full day	1 hr. per month
On site ID doc	Yes	No
Primary Care/Urgent Care available at satellite clinic site	No	Yes
Grantee Provider Hours per year	552	60
Patients hospitalized where HIV provider practices	No	Yes

# Principle of QI Plan

*Every patient encounter should be an opportunity to provide and measure the provision of quality HIV care.*

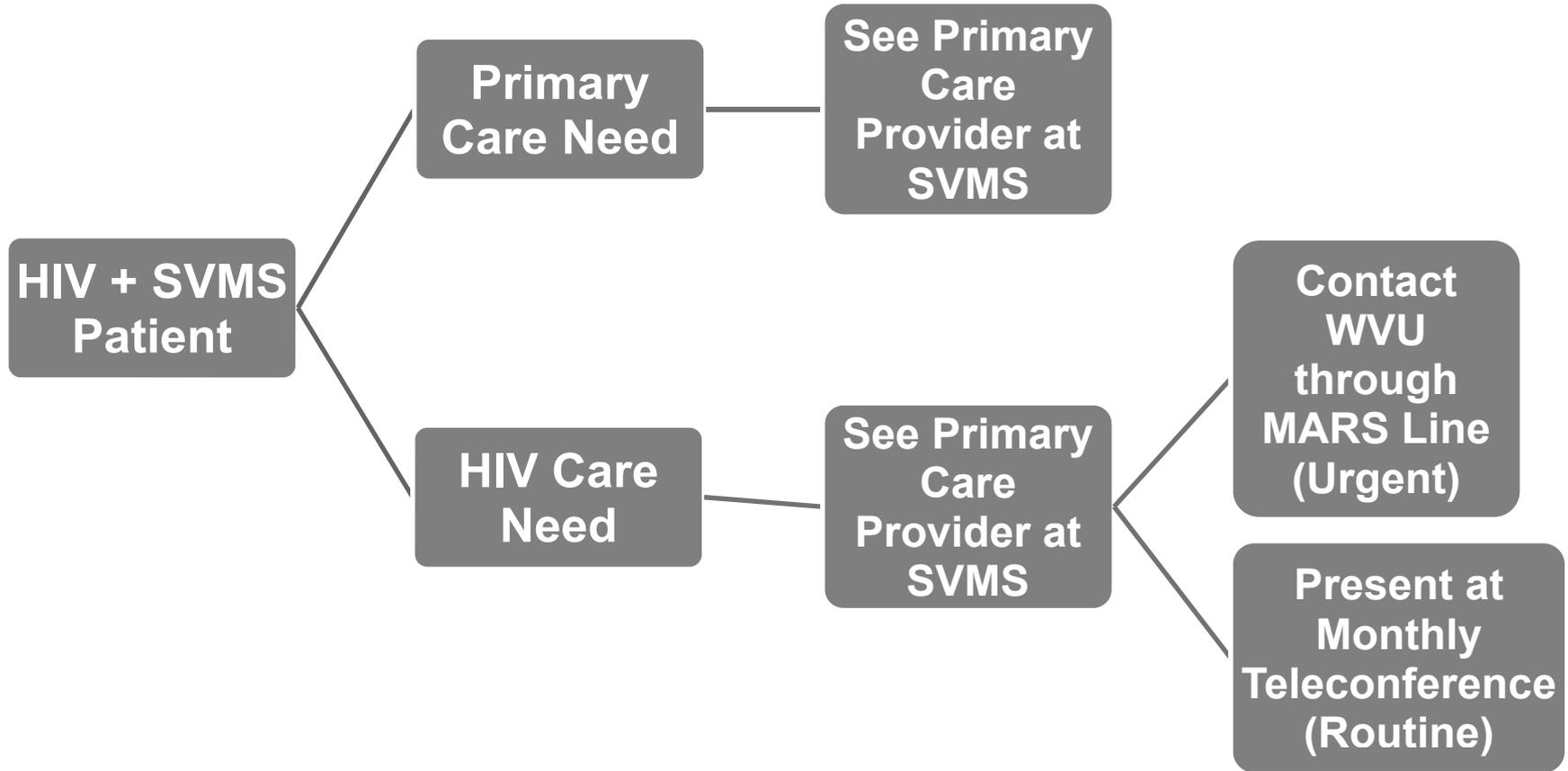
-Arif Sarwari, MD, MSc

Medical Director, WVU Positive Health Clinic

# Clinical Care

- **Shenandoah Community Health Center**
  - **Who Provides Care**
    - 7 Internists
    - 2 Family Practice Physicians
    - 2 Family Nurse Practitioners
    - 1 Physician Assistant
    - 2 Pediatricians
    - 1 Pediatric Nurse Practitioner

# Patient Flow



# Monthly Patient Care Teleconference

- Preparation
- Documentation
- Attendance

Shenandoah Valley Medical Systems  
Patient Care Teleconference

**Date:**

**Time:**

**Location:**

Type of meeting:

*Continuous Quality Improvement*

Facilitator:

*Kathy Chase, RN*

**Agenda**

	<b>Patient Name / Demographics</b>		<b>CD4</b>		<b>VL</b>	<b>Regimen</b>	<b>Stable</b>	<b>Unstable</b>	<b>Plan</b>
1.									
2.									
3.									
4.									
5.									
6.									

Educational Topics Covered:

Educational Topics to be discussed at Management Conference:

**Patient Name (No Shows)**

**Action Taken**

# Documentation

- Identification System
- Encounter Form
- CAREWare and EMR

Shenandoah Valley Medical Systems

Date of Diagnosis: \_\_\_ / \_\_\_ / \_\_\_ Year likely infected \_\_\_\_\_

Physician \_\_\_\_\_

Established \_\_\_\_\_

Risk: IDU MSM Heterosexual Contact Perinatal Hemophilia/Coag Dis/Transf Undetermined

LABS	DATE	RESULT	INVESTIGATION	DATE	RESULT
<b>CD4 count (percentage)</b>			Syphilis (yearly)		
			GC/Chlamydia (yearly)		
			Toxoplasma IgG		
			Hep B sAg / sAb		
			Hep B Core Ab / IgM		
<b>NADIR CD4</b>			Hep C Ab		
			If Hep C + then PCR & Genotype		
			Hep A Total Ab / IgM		
<b>Viral Load</b>			PPD		
			Pap Smear (yearly)		
			Mammogram (if >=40 yr old)		
			Eye Exam (if CD4 <50)		
			Dental Exam		
			Lipid Screening (yearly)		
<b>Resistance Testing</b>			Nutrition Screening		
			Mental Health Screening		
			Partnership for Health int.		
			HIV Education		
			Prevention and Wellness		
			Patient Assessment Form		
			Living Will / MPOA		
			CMV		
<b>OIs/ Neoplasms/ Comorbids</b>			<b>VACCINATIONS</b>	<b>Date</b>	
1	7		Pneumococcal (q 5 years)		
2	8		Influenza (yearly)		
3	9		Hepatitis A #1		
4	10		Hepatitis A #2		
5	11		Hepatitis B #1		
6	12		Hepatitis B #2		
<b>Allergies / Adverse Rx prior to ART</b>			Hepatitis B #3		
			Tetanus/Diphtheria (q 10yr)		
			H1N1		
<b>042 Medications</b>					
	<b>Dose/Freq</b>	<b>Start Date</b>	<b>Stop Date</b>	<b>Reason</b>	
<b>Pharmacy Assessment</b>					
	<b>Date</b>	<b>Date</b>	<b>Date</b>	<b>Date</b>	<b>Comments</b>
<b>a. Adherence Counseling</b>					
<b>b. Quantitative Assessment</b>					
<b>Medications for Prophylaxis</b>					
	<b>Dose/Freq</b>	<b>Start Date</b>	<b>Stop Date</b>	<b>Reason</b>	
<b>Substance abuse assessed</b>					
	<b>Date</b>	<b>Date</b>	<b>Tobacco use assessed</b>	<b>Date</b>	<b>Date</b>

**PATIENT ENCOUNTER FORM**

**Patient #** \_\_\_\_\_

**Shenandoah Valley Medical Systems**

**Date of Diagnosis:** \_\_ \_\_ / \_\_ \_\_ / \_\_ \_\_ **Year likely infected** \_\_\_\_\_

**Physician** \_\_\_\_\_

**Established** \_\_\_\_\_

**Risk:**  IDU  MSM  Heterosexual Contact  Perinatal  Hemophilia/Coag Dis/Transf  Undetermined

<u>LABS</u>	<u>DATE</u>	<u>RESULT</u>	<u>INVESTIGATION</u>	<u>DATE</u>	<u>RESULT</u>
<b><u>CD4 count</u></b> <b><u>(percentage)</u></b>			Syphilis (yearly)		
			GC/Chlamydia (yearly)		
			Toxoplasma IgG		
			Hep B sAg / sAb		
			Hep B Core Ab / IgM		
			Hep C Ab		
<b>NADIR CD4</b>			<b>If Hep C + then PCR &amp; Genotype</b>		
			<b>Hep A Total Ab / IgM</b>		
<b><u>Viral Load</u></b>			<b>PPD</b>		
			<b>Pap Smear (yearly)</b>		
			<b>Mammogram (if &gt;=40 yr old)</b>		
			<b>Eye Exam (if CD4 &lt;50)</b>		
			<b>Dental Exam</b>		
			<b>Lipid Screening (yearly)</b>		
<b><u>Resistance Testing</u></b>			<b>Nutrition Screening</b>		
			<b>Mental Health Screening</b>		
			<b>Partnership for Health int.</b>		
			<b>HIV Education</b>		
			<b>Prevention and Wellness</b>		
			<b>Patient Assessment Form</b>		
			<b>Living Will / MPOA</b>		
			<b>CMV</b>		

<u>OIs/ Neoplasms/ Comorbids</u>		<u>VACCINATIONS</u>	<u>Date</u>
1	7	Pneumococcal (q 5 years)	
2	8	Influenza (yearly)	
3	9	Hepatitis A #1	
4	10	Hepatitis A #2	
5	11	Hepatitis B #1	
6	12	Hepatitis B #2	
<u>Allergies / Adverse Rx prior to ART</u>		Hepatitis B #3	
		Tetanus/Diphtheria (q 10yr)	
		H1N1	

<u>042 Medications</u>	<u>Dose/Freq</u>	<u>Start Date</u>	<u>Stop Date</u>	<u>Reason</u>

<u>Pharmacy Assessment</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Comments</u>
a. Adherence Counseling					
b. Quantitative Assessment					

<u>Medications for Prophylaxis</u>	<u>Dose/Freq</u>	<u>Start Date</u>	<u>Stop Date</u>	<u>Reason</u>

<u>Substance abuse assessed</u>	<u>Date</u>	<u>Date</u>	<u>Tobacco use assessed</u>	<u>Date</u>	<u>Date</u>

**Additional Notes:**

Shenandoah Valley Medical Systems

Date of Diagnosis: \_\_\_/\_\_\_/86 Year likely infected Early 80s

Physician SM  
Established 2006

Risk:  IDU  MSM  Heterosexual Contact  Perinatal Trans  Hemophilia/Coag Disorder/Transfusion

LABS	DATE	RESULT	INVESTIGATION	DATE	RESULT
CD4 count (percentage)	1109	247	Typhoid (yearly)	3/8/10	NR
	5/109	324	GC/Chtamya (yearly)		
	8/109	352	Toxoplasma IgG	3/8/10	< 0.90
	12/109	256	Hep B sAg / sAb	10/11/06	(-) / (+)
	3/10	230	Hep B Core Ab / IgM	10/11/06	(-) / (+)
NADIR CD4			Hep C Ab	10/11/06	(-)
			If Hep C + then PCR & Genotype		
Viral Load	1109	3158	Hep A Total Ab / IgM	10/11/06	(-) / (+)
	5/109	248	PPD	3/11/09	Ø mm
	8/109	248	Pap Smear (yearly)		
	12/109	2330	Mammogram (if >40 yr old)		
	3/10	4080	Eye Exam (if CD4 < 50)		
Resistance Testing			Dental Exam		Referred
	Genotype 3/2010		Lipid Screening (yearly)	3/21/10	190, 65, 87, 48
	No Mutations		Nutrition Screening		
			Mental Health Screening		
			Partnership for Health Int.	3/8/2010	
			HIV Education		
			Prevention and Wellness		
			Patient Assessment Form	10/11/06	
			Living Will / MPOA	10/11/06	Handout
			CMV	3/8/10	3.78 (+)
Opportunistic Infections/ Neoplasms/ Comorbids			VACCINATIONS		
Herpes Simplex			Date		
1			Pneumococcal (q 5 years)		
2			Influenza (yearly)		
3			Hepatitis A #1		
4			Hepatitis A #2		
5			Hepatitis B #1		
6			Hepatitis B #2		
7			Hepatitis B #3		
8			Tetanus/Diphtheria (q 10yr)		
9			H1N1		
Allergies / Adverse Rx to prior ART therapy					
Sulfa, Augmentin					

942 Medications	Dose/Freq	Start Date	Stop Date	Reason
Lexiva 700mg	1 tab BID	8/2006		
Truvada 200mg	1 tab QD	8/2006		
Ritonavir 150mg	1 tab BID	8/2006		

Pharmacy Assessment	Date	Date	Date	Date	Comments
a. Adherence Counseling	12/09	3/10			
b. Quantitative Assessment	100%	100%			

Medications for Prophylaxis	Dose/Freq	Start Date	Stop Date	Reason
Acyclovir		8/2006		Herpes

Sub abuse assessed	Date	Date	Tobacco use	Date	Date
(+) ETOH	8/10/09		(+) Cigarettes	3/2010	

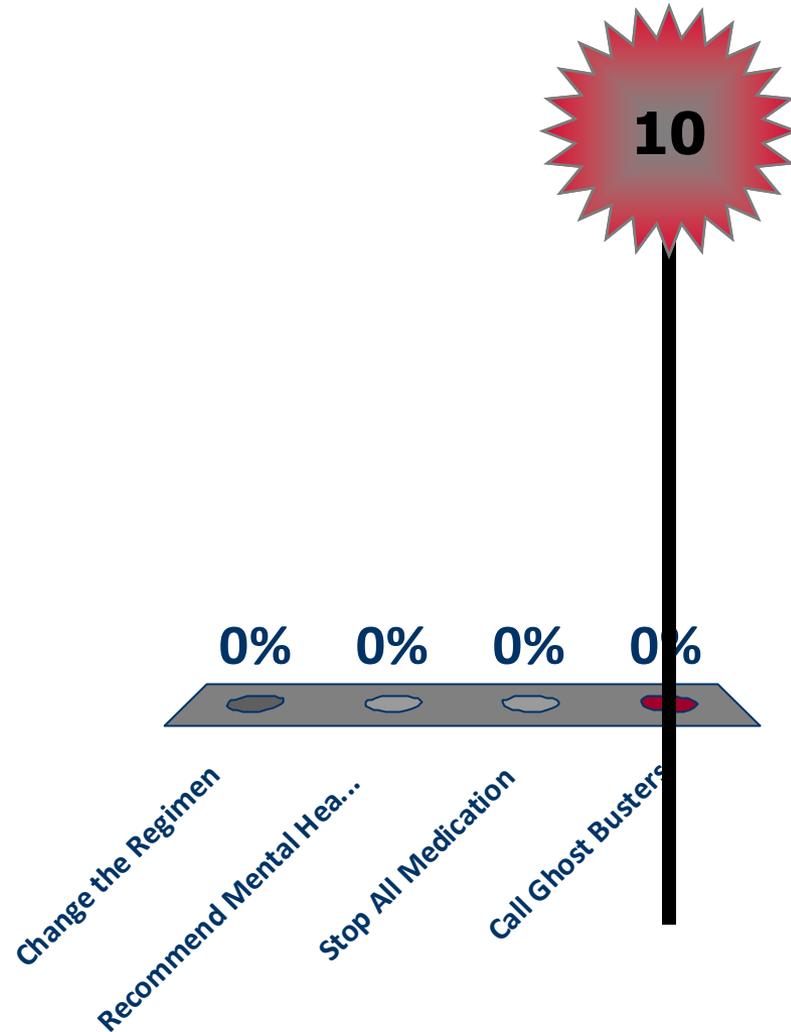
<u>LABS</u>	<u>DATE</u>	<u>RESULT</u>
<u>CD4 count</u> <u>(percentage)</u>	1/09	247 22%
	5/09	324 30%
	8/09	352 30%
	12/09	286 21%
	3/10	230 21%
<u>NADIR CD4</u>		
<u>Viral Load</u>	1/09	3158
	5/09	248
	8/09	248
	12/09	2330
	3/10	4080

<u>042 Medications</u>	<u>Dose/Freq</u>	<u>Start Date</u>	<u>Stop Date</u>	<u>Reason</u>
Lexiva 700mg	1 tab BID	8/2006		
Truvada 200/300mg	1 tab QD			
Ritonavir 100mg	1 tab BID			

<u>Pharmacy Assessment</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Comments</u>
a. Adherence Counseling	12/09	3/10			
b. Quantitative Assessment	100%	100%			

# As a provider what would you do...

1. Change the Regimen
2. Recommend Mental Health and Adherence Counseling
3. Stop All Medication
4. Call Ghost Busters



<u>Pharmacy Assessment</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Comments</u>
a. Adherence Counseling	12/09	3/10			
b. Quantitative Assessment	100%	100%			

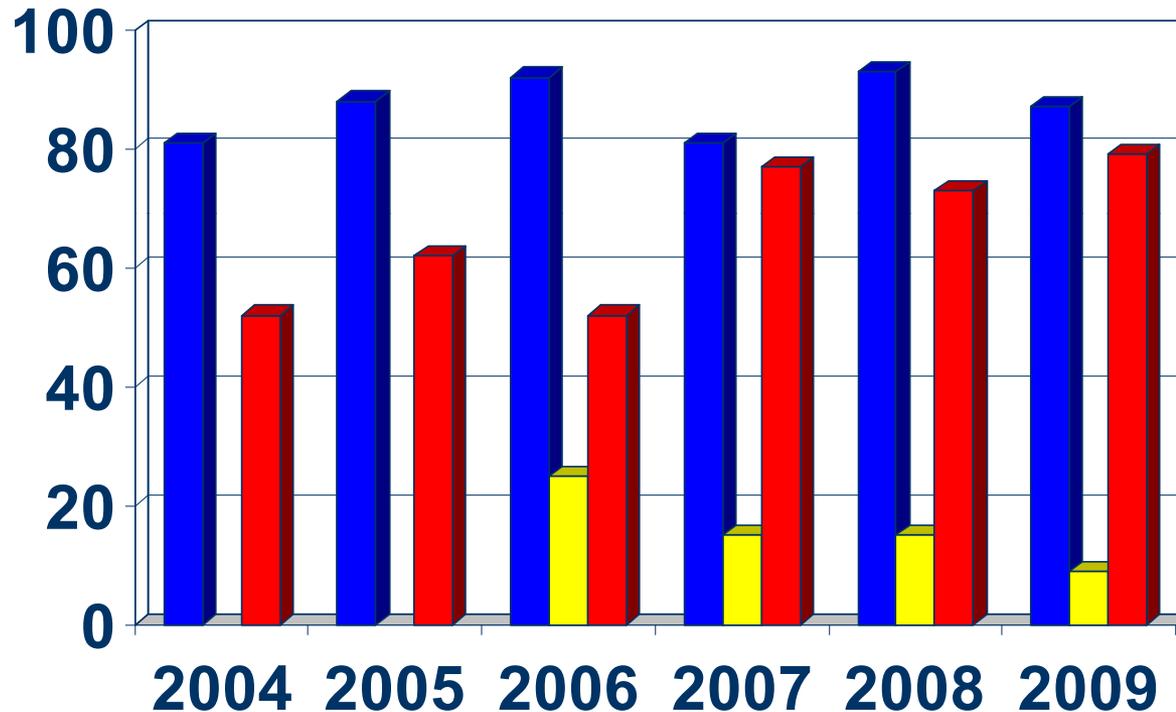
<u>Medications for Prophylaxis</u>	<u>Dose/Freq</u>	<u>Start Date</u>	<u>Stop Date</u>	<u>Reason</u>
Acyclovir		8/2006		Herpes

<u>Sub abuse assessed</u>	<u>Date</u>	<u>Date</u>	<u>Tobacco use</u>	<u>Date</u>	<u>Date</u>
⊕ ETOH	3/2010		⊕ Cigarettes	3/2010	

# Quality Management Indicators

- Patients on ART
- Undetectable VL – patients on ART
- CD4 <200
- Labs / annual screenings
- Immunizations

# Quality Management



■ Patients on ART    ■ CD4 < 200    ■ Undetectable VL

You Can DO IT !!

# Education



# Role of the West Virginia Local Performance Site of the PA/MA AETC

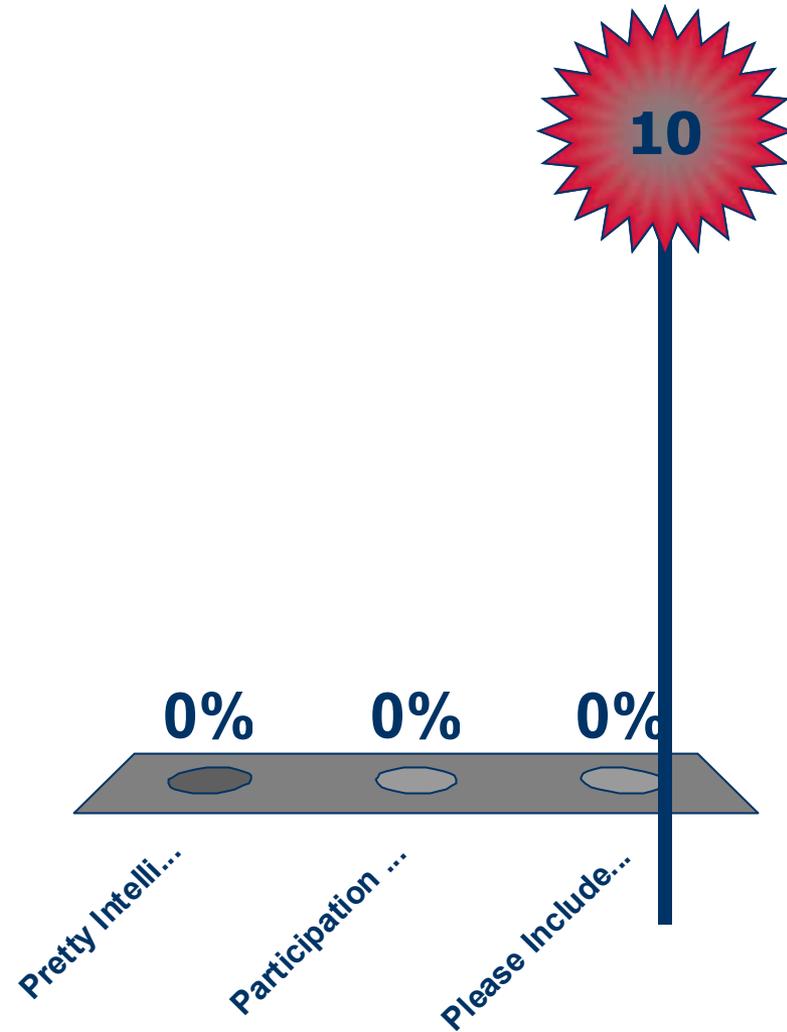
- Monthly Patient Care Teleconference Call
- CME Credit
- Expertise of Providers
- Programs Provided

# Monthly Patient Care Teleconference

- Fourth Tuesday of every month
  - Patients' Encounter forms faxed
  - Encounter forms copied and provided to ID physician
  - At least twice a year an educator from the WVLPs travels and participates in the call at the Shenandoah Site

# What is a PIF

1. Pretty Intelligent Friend
2. Participation Information Form
3. Please Include Food



# Monthly Patient Care Teleconference

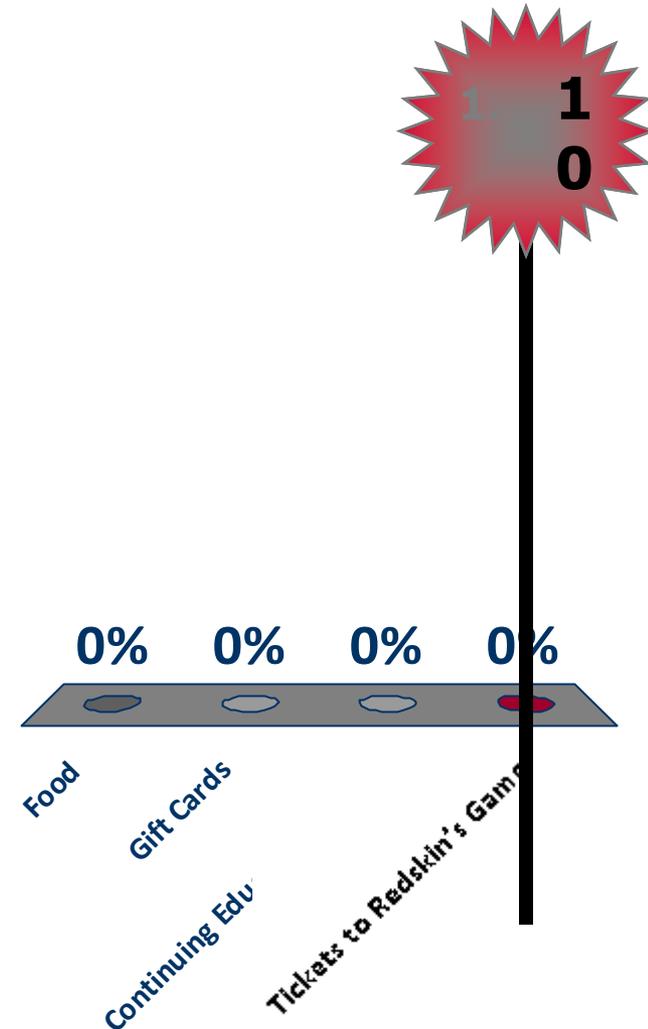
- Participant Information forms
  - Are pre-filled for each participant
  - Collected by the nurse after the call
  - Mailed to the Local Performance Site

# Participants

- WVLPs of the PA/MA AETC
  - ID physician (represents both AETC and Part C)
  - Nurse Educators
- Ryan White Part C
  - ID physician
  - Nurse

What do you think we did to encourage providers to attend the patient care teleconference call

1. Food
2. Gift Cards
- 😊 3. Continuing Education Credit
4. Tickets to Redskin's Game



# Continuing Education Credit

- 1 hour AMA PRA Category 1 credit
- 1.2 hours of nursing credit
- 1 hour of social worker credit

# Expertise of providers

- Patient encounter forms kept since inception to monitor progression of patient care
- Quality performance measures have improved
- According to the ID physicians, questions presented via the MARS line have become more complex
- Provider invited speaker at the annual West Virginia Ryan White All Parts HIV conference

# Programming

- Numerous HIV/AIDS programs have been provided in the area
- HIV/AIDS programs have been conducted at the Shenandoah site
- At least one teaching point is presented and discussed at each patient care teleconference call

# Summary

- Quality HIV care can be provided by Community Health Centers
- Patients receive care closer to their residence
- This has been a very successful partnership between Ryan White Part C, the Community Health Center and the AETC as well as Ryan White Parts A and B, and local CBOs
- This is an economical alternative to the traditional model