

Using Electronic Networks of Care.....Across the Continuum of HIV Care

a Special Project of National Significance
Grantee's presentations

2007 to 2011

Who are you?

Workshop Description

Panelist shall demonstrate

How electronic networks of care (ENC) systems have ...

- leveraged patient data and technology to simplify, clarify, and automate communications across different HIV care models to improve efficiencies in the engagement and coordination of clinical care

Special Projects of National Significance – IT Networks of Care

Demonstration Project (2007 – 2011)

Goal:

To develop and evaluate electronic health information exchanges that links providers, public health agencies, and/or patients.

SPNS Electronic Networks of Care Initiative

- Salient Questions behind the initiative:
 - What is each Health Information Exchange doing?
 - When are they effective?
 - Where are they effective?
 - With whom are they having an effect?
 - How exactly are they having an effect?
 - Are they cost effective?

SPNS Initiative

- Six demonstration sites:
 - Bronx-Lebanon Hospital Center, New York, NY
 - City of Paterson, NJ, Ryan White Grants Division
 - Duke University, Durham, NC
 - Louisiana State University Health Sciences Center, New Orleans, LA
 - New York-Presbyterian Hospital, New York, NY
 - St. Mary Medical Center Foundation, Long Beach, CA

SPNS Initiative

- Cross-site evaluation center
 - Center for AIDS Prevention Studies, University of California, San Francisco (PI: J. Myers)



- HRSA-SPNS
 - A. Cajina, F. Malitz, R. Mills, M. Tinsley

Electronic Networks of Care: Utilization, Coordination and Quality of Care at Baseline



Starley Shade, MPH, PhD

University of California San Francisco

- Initiative is entering its 4th and final year

- Each site has implemented a bi-directional electronic health information exchange

- Evaluation includes

- Quantitative surveys with patients

- Quantitative surveys and qualitative interviews with users of the systems (e.g., providers)

- Extraction of de-identified data from the system



Methods

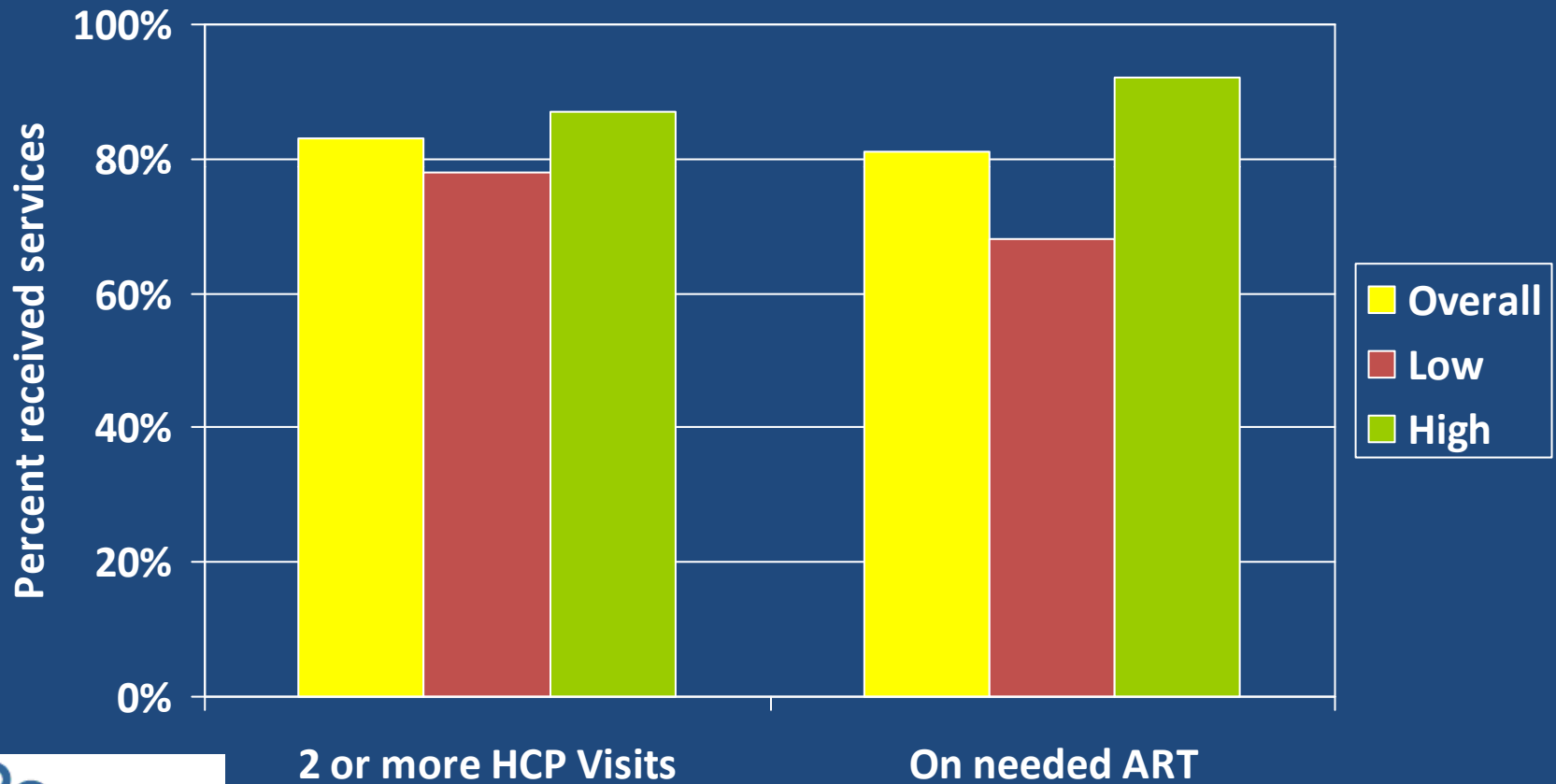
- Used baseline patient survey data to describe:
 - Healthcare utilization
 - Coordination of care
 - Perceive quality of care
- Used baseline data extract from electronic systems to identify:
 - Data sharing
 - Referral Tracking



Site Participation

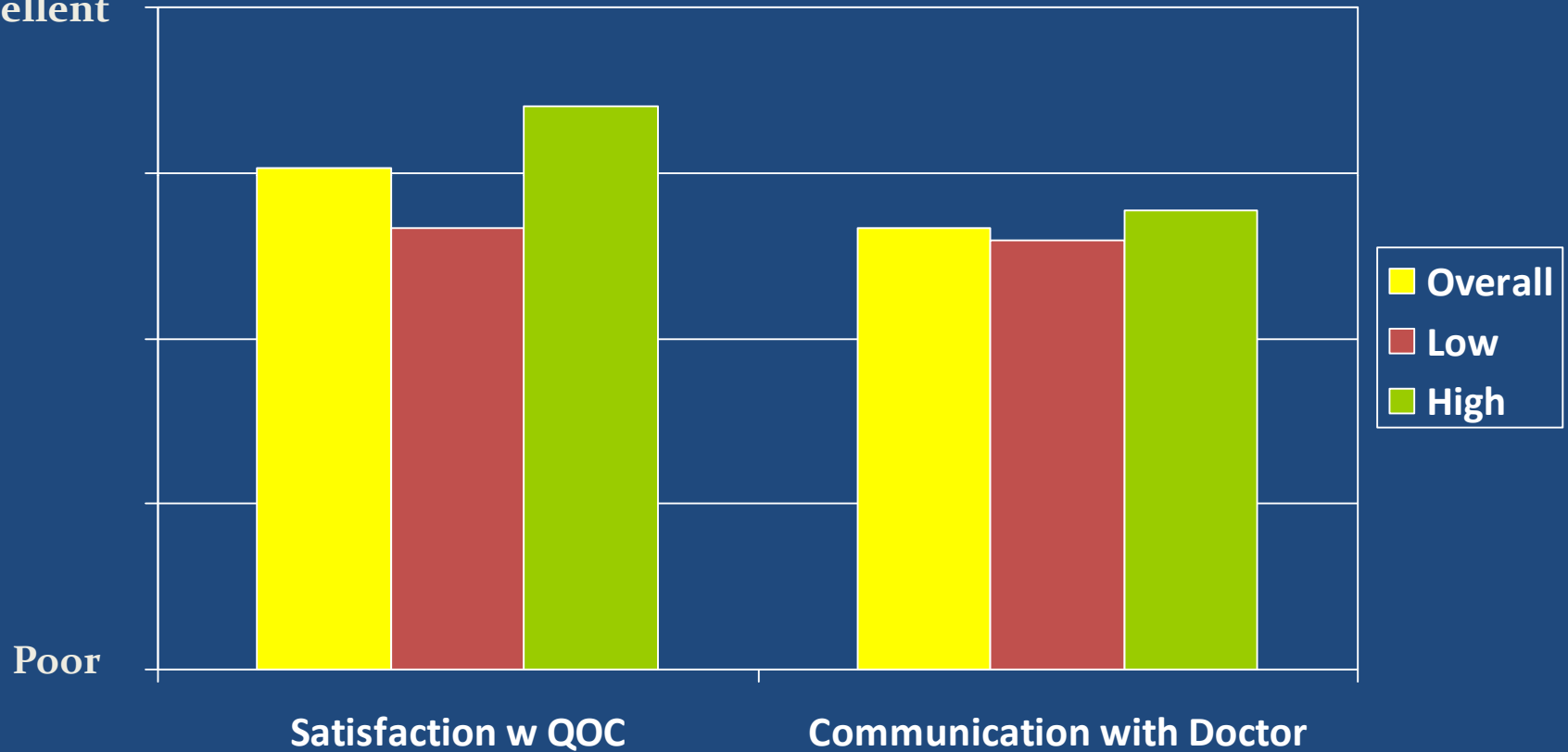
Name of site	N
City of Paterson	116
Duke University	104
LSU Health Services Center	100
NY Presbyterian Hospital	98
St. Mary Medical Center	100

Utilization of Care



Quality of Care (QOC)

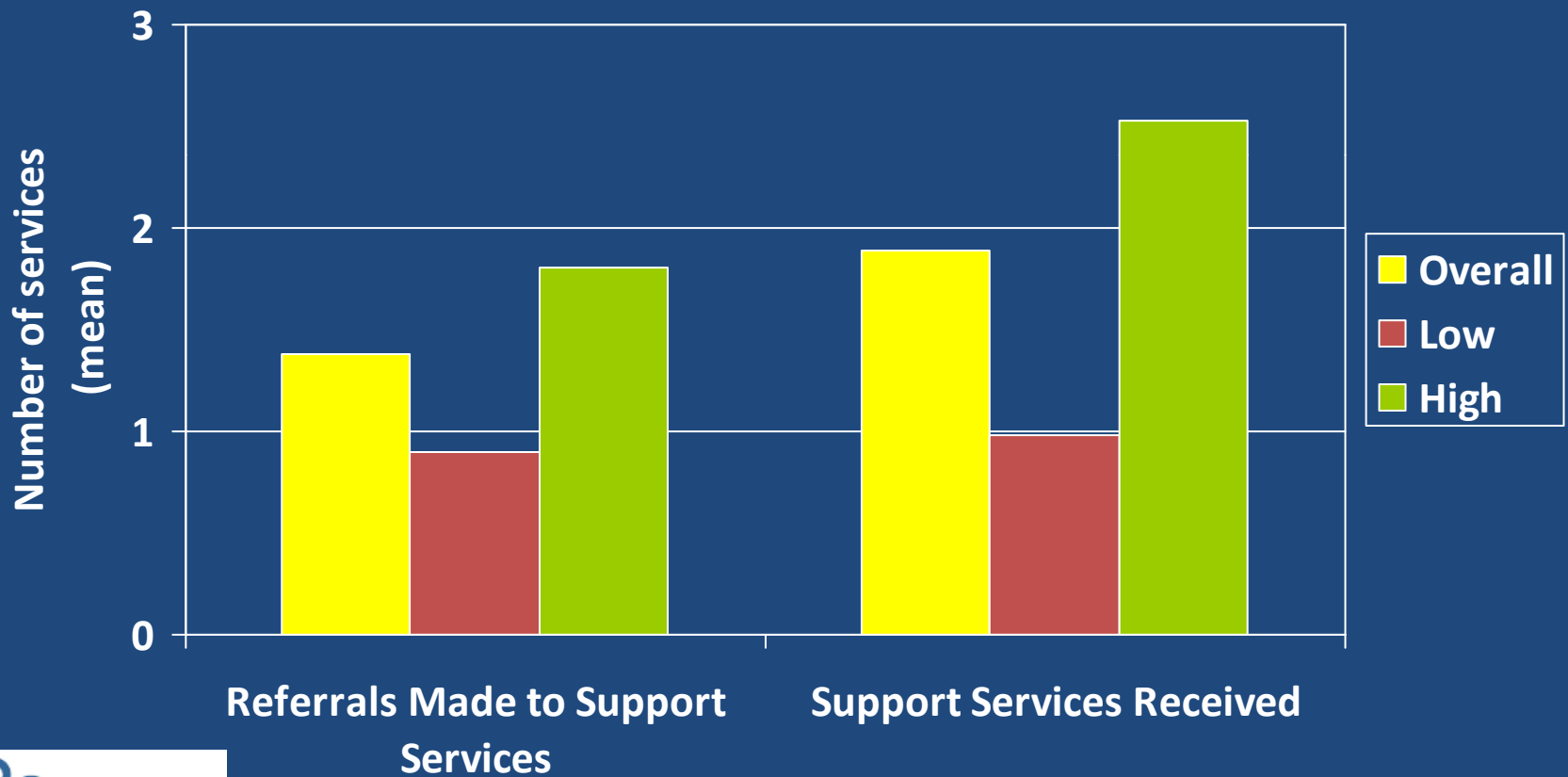
Excellent



Poor



Coordination of Care



Electronic coordination of care

- Data Sharing
 - Data from primary care was shared with support service providers in two of the six systems.
- Referral Tracking
 - Initiation and completion of referrals to support services was tracked in only one of the six systems.

Discussion

- Prior to this initiative, patients reported:
 - Appropriate utilization of primary care
 - Initiation and receipt of referrals to support services
 - Satisfaction with care.
- However, few of these systems allowed for sharing of information between:
 - Primary and support service providers, or
 - Tracking of the initiation and receipt of referral.
- These and other identified gaps provide the targets for the present initiative.

LSU – La Phie

Bronx-Lebanon Hospital

Using technology to establish a reminder system to improve patient outcomes

Duke – Wake Forest

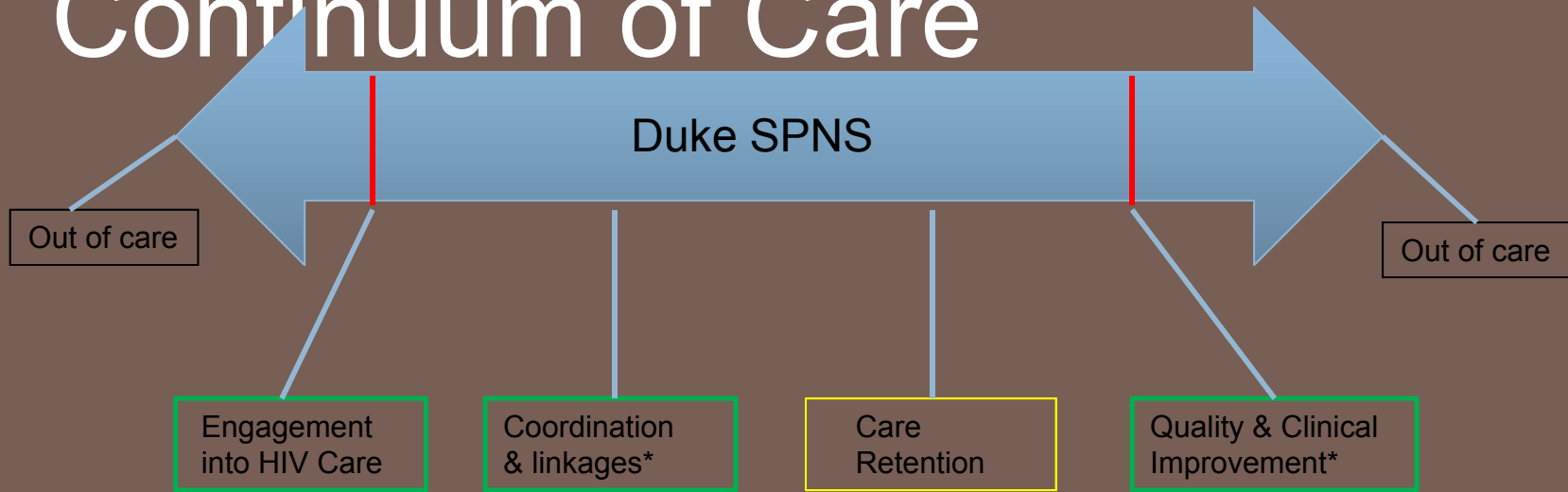
REGIONAL HEALTH INFORMATION INTEGRATION PROJECT (RHIIP)

Aimee Wilkin, MD MPH
Wake Forest University Health Sciences

Lynne Messer, PhD MPH
Duke University



Continuum of Care



- Engagement into care
- Coordination and linkages
- Care Retention
- Clinical Improvement/Quality Improvement

REGIONAL HEALTH INFORMATION INTEGRATION PROJECT (RHIP)

- RHIO- Regional Health Information Organization
 - stakeholders that partner to share health information in order to facilitate improvements in healthcare quality, safety and efficiency.
- Our HIV-specific RHIO
 - Formed from existing regional consortium, CBO's and large HIV clinic in an eight county regimen of mid-west NC
 - Mix of rural and urban areas, large geographic area

Tools for RHIO

- CAREWare network
 - (Free!) software developed for managing & monitoring HIV clinical and supportive care.
<http://hab.hrsa.gov/careware>
 - Required by NC State AIDS Care Unit for reporting

RHIIP– SPNS project goals

- Develop a CAREWare RHIO
- Implement CAREWare network of care
- Evaluate CAREWare network of care
- Assess and enhance organizational readiness for adopting IT
- Maintain and improve the CAREWare network
- Conduct quality assurance activities
- Disseminate findings

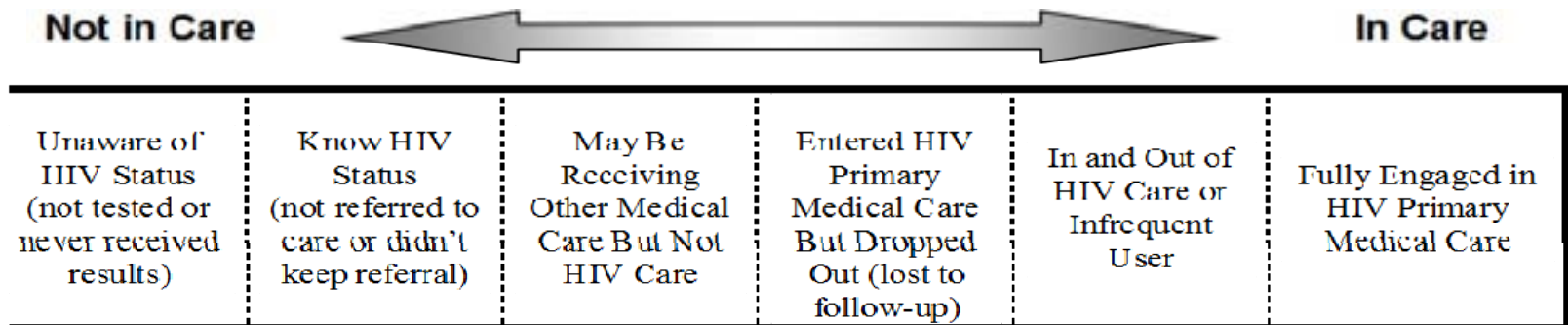
REGIONAL HEALTH INFORMATION INTEGRATION PROJECT

□ RHIIP

- Originally comprised of 5 organizations near Winston-Salem, NC
- An IT network was laid on top of the existing provider network to enhance and facilitate cross-organizational care
- Using CAREWare and a regional server, the RHIO supports administrative and clinical functioning through the sharing of electronic health information among partner agencies
- RHIO works to implement this shared network with the ultimate goal of improving patient health outcomes and satisfaction

Goals of data sharing

- Improve quality of medical care
 - ▣ All providers can reinforce patient's medical knowledge, adherence to medications and appointments
 - ▣ Case managers and medical clinic providers can find necessary information about services/status easily
 - ▣ Opportunity to aggressively re-engage patients in care if appointments are missed

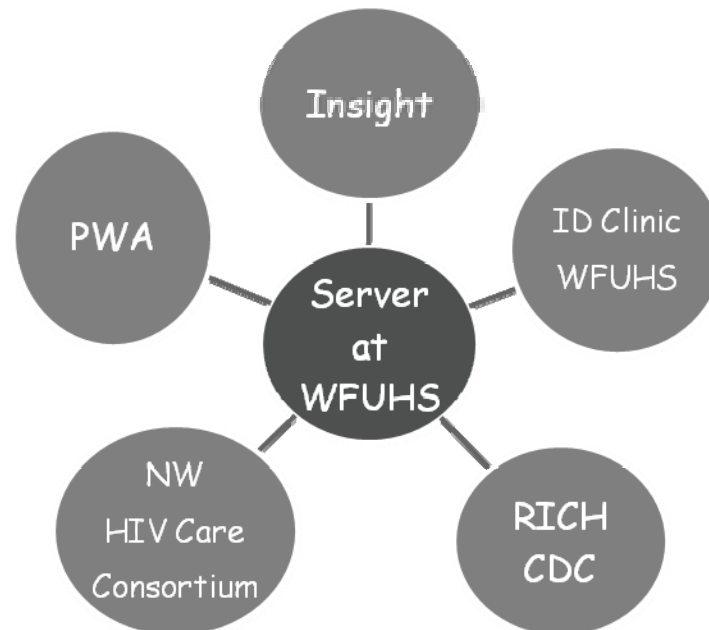


Goals of data sharing

- Improve efficiency of medical care
 - ▣ Less time in obtaining information from each other
 - ▣ Less repetition for client accessing care at different locations
- Improve efficiency of billing and reporting
 - ▣ Helps with reporting
 - ▣ CQI reports
 - ▣ Monthly billing of Ryan White services

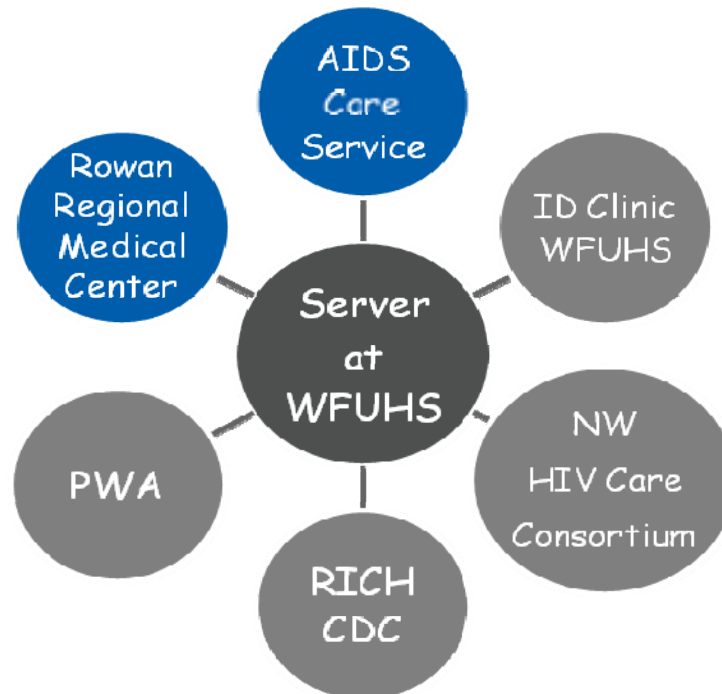
RHIIP– Early Structure

- CHIC = Carolina HIV Information Cooperative
- As of January 2008, CHIC had 5 members
- Active data exchange: November 2008
- 25 users; 561 clients; 181 actively exchanging



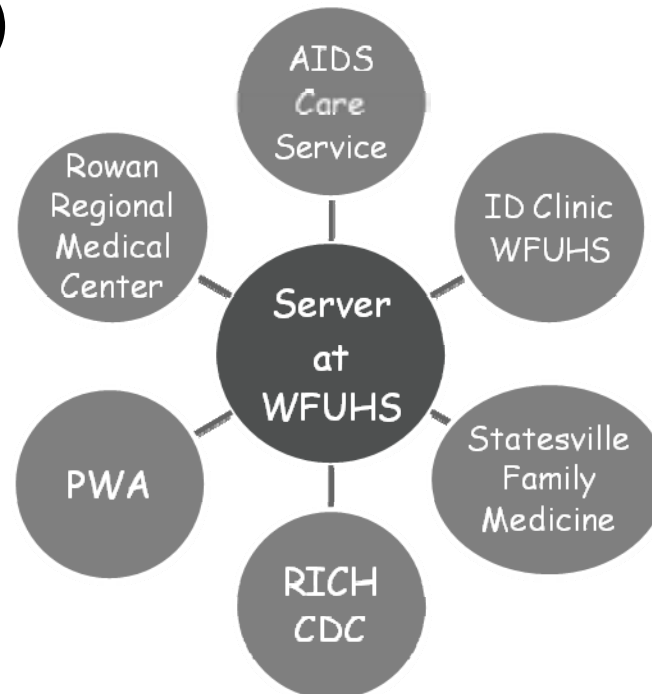
RHIIP– Updated Structure

- As of September 2009, the CHIC RHIO includes six organizations (lost 1, gained 2)
- 30 individual users, working with 1077 clients
- 338 clients involved in some active exchange



RHIIP – Structure as of April 2010

- ❑ CHIC RHIO includes six organizations
- ❑ 37 individual users, working with 3231 clients (up from 1077 clients in November)
- ❑ 492 clients involved in some active exchange (up from 338 in Nov)



Implementation issues

- Security issues
 - Citrix portal with server at WFUHS
 - Business associate/data sharing agreements
 - Consent forms for data sharing
- Data sharing
 - Standards for how to enter/change information
 - What information to share?
- Training
 - Monthly meetings
 - One-on-one user training
 - Statewide training

RHIO Activities

- Providers have begun using referral functions, which allow one provider to refer a client to another provider (e.g., from the clinic to a case management agency or from case management agency to food pantry)
- Providers also beginning to experiment with producing a wide variety of reports to help improve efficiency and client care

Statewide Reorganization of HIV Care

- Statewide Consortia model reorganization
 - ▣ Development of networks of care
 - ▣ Provision of full continuum of services from diagnosis to hospice
 - ▣ Network to support variety of reporting, administrative, clinical functions
 - ▣ Potential overlay of care network above IT network for replication across state

RHIIP – Sustainability

- Required part of our network
- Now viewed as one model for information sharing by state
- Hired a full-time program analyst (not on SPNS budget) to coordinate network data collection, RHIO, reporting (admin, CQI, etc)
 - ▣ Improve efficiency of data collection
 - ▣ Uploading historical WFUHS into CAREWare
 - ▣ Almost completely paperless clinic now
 - ▣ Increasing functionality to meet RHIO's desires

City of Paterson

SPNS – IT Network of Health Initiative

August 25, 2010
Washington, DC

Jesse Thomas
Catherine Correa
Pat Virga, PhD



Where Are We From?

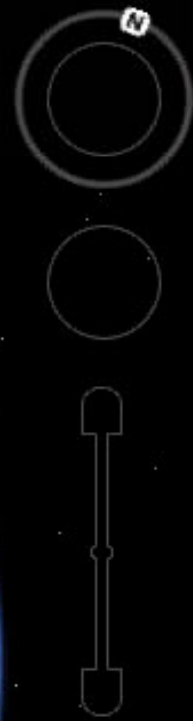


Image © 2008 DigitalGlobe

Image © 2008 TerraMetrics
Image NASA

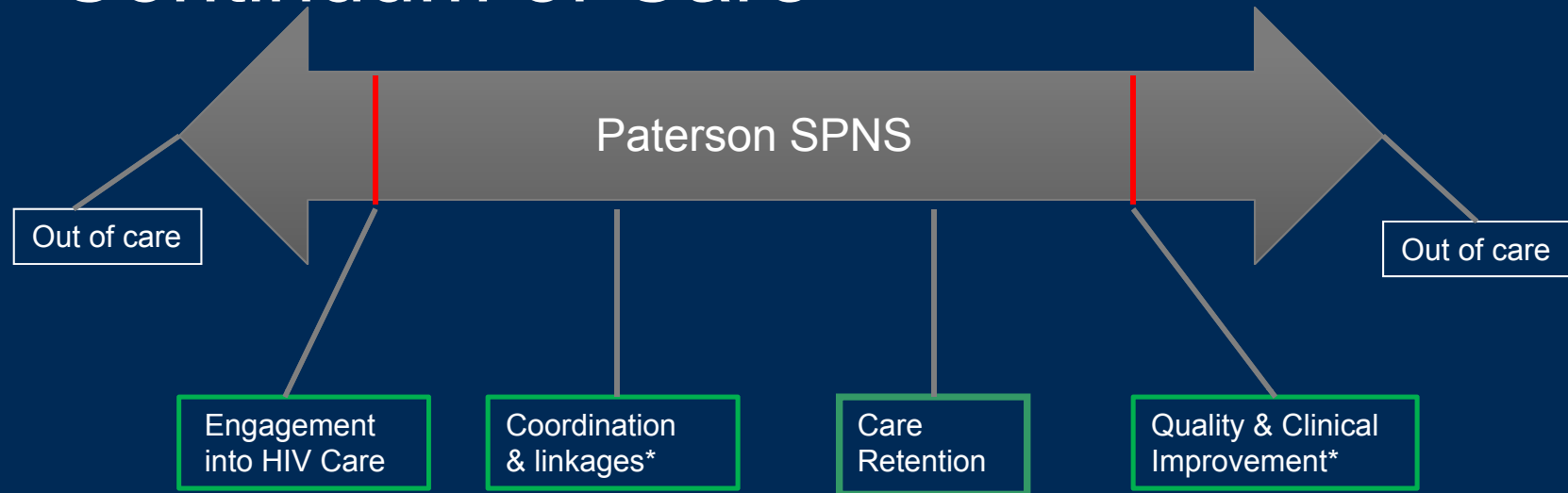
Google

36°07'59.12" N 109°08'54.10" W

Eye alt 9869.90 km



Continuum of Care



- Out of-Care
- Engagement into care
- Coordination and linkages
- Care Retention
- Clinical Improvement/Quality Improvement

Continuum of Care

Paterson SPNS

Out of care

Out of care

Engagement
into HIV Care

Coordination
& linkages*

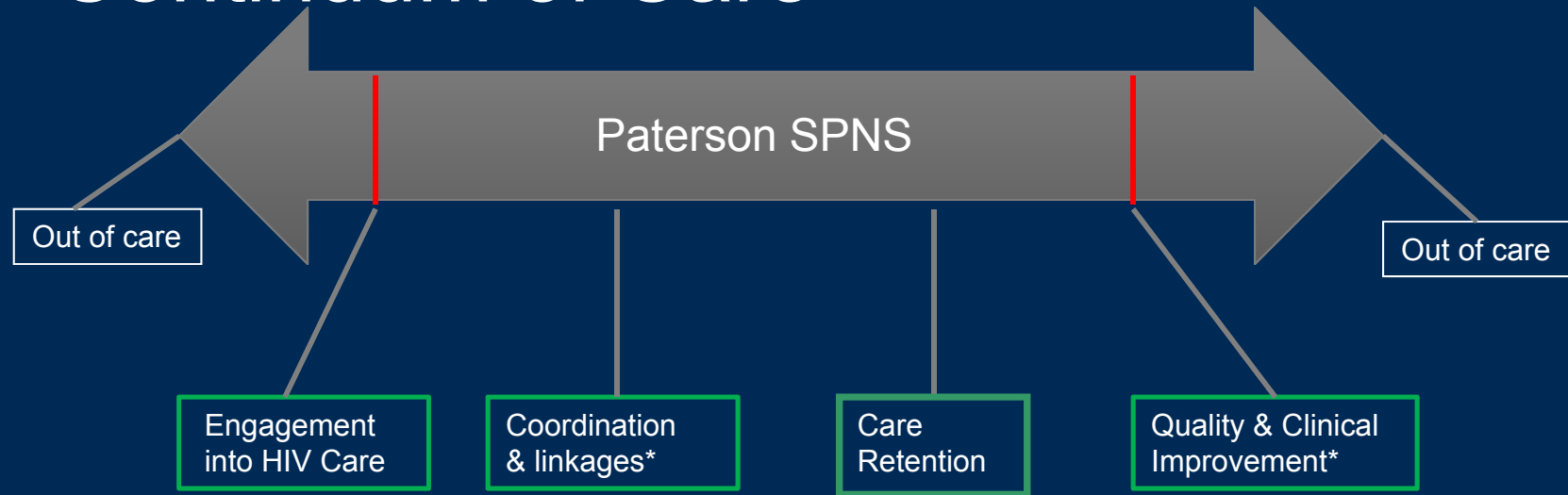
Care
Retention

Quality & Clinical
Improvement*

Goals

- Strengthen the **management and exchange** of patient health information.
- To reduce lag time between diagnosis and **entry to care** and to **enhance retention** in care through use of the e2 system.

Continuum of Care



Final Goal:

To promote **provider self-monitoring** via the e2 system in order to improve patient outcomes as measured by quality of care and patient satisfaction.

Background

Story of failure to success...

Methods

Monthly engagement with Key Stakeholders.

On-site clinical support.

Systems enhancements.

Fully Web-Based

User-Friendly

Visual

Manages full continuum of care

Process over Product

System Implementation Updates

- Retention Module
- Updated Online Resource Guide
- Goals and Benchmarks Tracking Ver 1
- Progress on Medical Data Exchange Restructuring
- Alerts and Reminders Module
- Quality Journaling (PI) Module
- HIV Testing Module Implementation

System Implementation Updates

- Access granted to HIV testing sites
- Clinical module:
 - TB/TST Report Refinement
 - Comprehensive Metabolic Panel
 - Syphilis Screening Project Improvement Report
- Consent tracking (Client Documents Module)
- In Care Alert (Last Medical Visit)
- **NJ Cross-Part Collaborative Report**

Federal Electronic Reporting (RSR):

The Challenge and the Opportunity

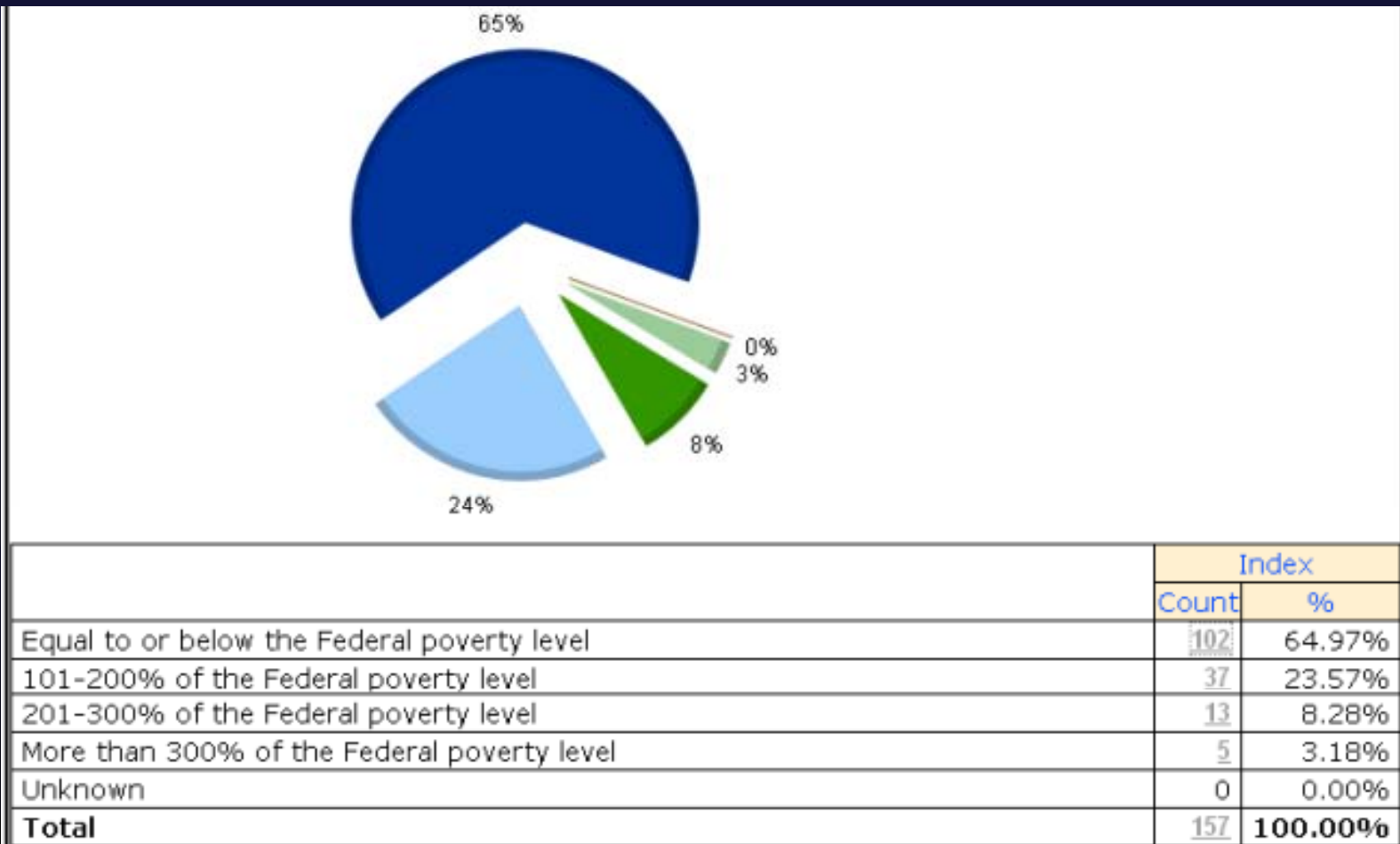
eCOMPAS (e2)

Visual / Clickable RSR

Leveraging SPNS Grants

RSR Aggregate Data

- Preview of Client Level Data before submission to HRSA



Active, continuing in program	155	96.27%
Referred to another program or services, or self-sufficient	2	1.24%
Removed from treatment due to violation of rules	0	0.00%
Incarcerated	0	0.00%
Relocated	2	1.24%
Deceased	2	1.24%
Unknown	0	0.00%
Total	161	100.00%

Index - Active, continuing in program [Anchor for Printing] [Close]

Client's Ethnicity

Unknown

40%

TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909
TTM999909	TTM999909	TTM999909	TTM999909

- eCOMPAS provides drilldown capability
- Click on any number to see the client records that comprise that aggregate number.

[General Information](#) | [Medical](#) | [Direct Services](#) | [Lookup](#) | [Client Referrals](#) | [Outcomes](#)
[Demographics](#) | [HIV and AIDS Info](#) | [Socio-Economic Info](#) | [Income Data](#) | [Income Sources](#) | [Documents on File](#) | [Notes](#)

You are editing this client's data for 06/30/2009

Client Information top

Current Gender	Male		Gender at Birth	Male
CM (non-medical)	Tisa Nicole Smith			
CM (medical)	MARIE BROWNE			
HIV Specialty Care Provider				
Other:				
Zip Code	07501	Birth Place	WEST INDIES	
County	PASSAIC	City	PATERSON	State NJ

Client Status top

Client Status	Referral Source
Active	Hospital Discharge

Demographics top

Race <input type="checkbox"/> White <input checked="" type="checkbox"/> Black or African American <input type="checkbox"/> Asian <input type="checkbox"/> Native Hawaiian/Pacific Islander <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Unknown <input type="checkbox"/> Other	Ethnicity Non-Hispanic Hispanic Region of Origin Not Hispanic Sexual Orientation Unknown
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------

- ...which allows you to go to any client's record, and update their data accordingly.
- Changes are reflected immediately in the RSR, for the correct reporting time period.
- This is the **eCOMPAS Time Machine** feature, and allows you to correct past data historically, without creating problems in current data.

- eCOMPAS also offers Data Cleanup Tools, which will check for inconsistent or invalid data, alert you to them, and allow you to correct them.

Cleanup the data

[Data Cleanup tool for HIV Status](#)

[Data Cleanup tool for Client Race](#)

[Data Cleanup tool for Affected-Client Infected ID](#)

[Data Cleanup tool for Household Income and Family Size](#)

Clients who received services in the selected reporting period from this agency

Instructions: For each client, review the Family Income and the Family Size fields. If they are correct, click on the "Correct" button. If they are incorrect, enter the correct values and click the "Correct" button.

Your mission is to make sure all records have been corrected or verified such that all records say "Verified" and are yellow (not red or white).

Please note that the system will update the information only for the client for which the "Correct" button was clicked.

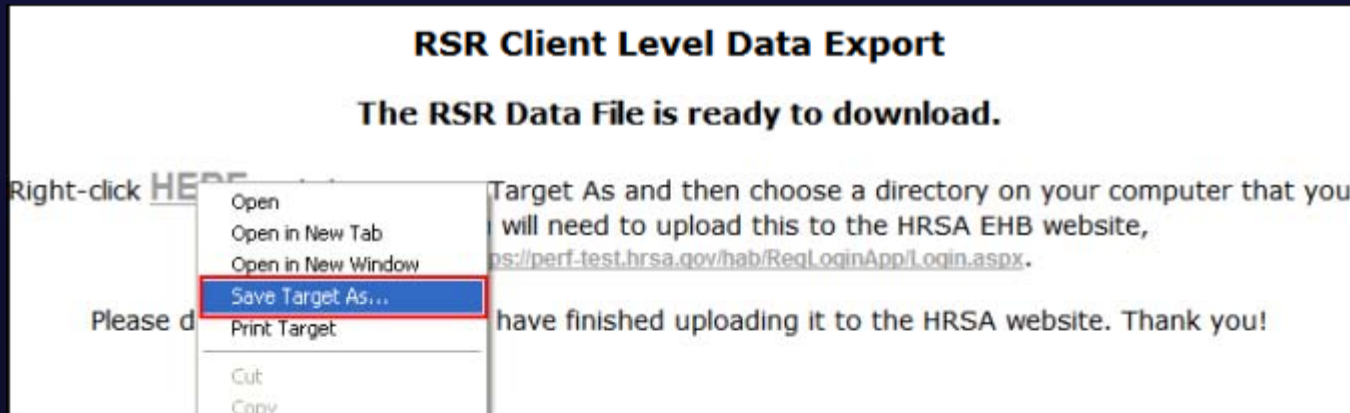
Records in red are those in which one of the following issues exist:

- **Family Size is zero** - incorrect, since family size always includes the individual, and thus has to be at least one
- **Yearly Individual Income greater than Yearly Family Income** - incorrect, since family income should include the individual's income
- **For family size of 1, Yearly Individual Income not equal to Yearly Family Income**

ClientID	Yearly Individual Income	Yearly Family Income	Family size	Verified
ZZF123412	\$0.00	\$0.00	0	Correct
ZZF435512	\$0.00	\$0.00	0	Correct

Total clients: 2, to be reviewed: 2

- You can even update multiple clients at the same time.



- And uploading the data to the HRSA EHB is real-time and easy.

eCOMPAS RSR

→ The RSR process was transformed from a mandated challenge into a user-friendly, **data quality improvement** opportunity

and still serves today as a **quality improvement tool** used by Case Managers.

Quality Improvement and
Provider Self-Monitoring

Interactive Cross-Part
Collaborative Module

Key Performance Indicators

- CD4 tests
- On needed HAART
- Medical Visits
- Prophylaxis
- Syphilis Screening

eCOMPAS Supporting Improvement

Cross Collaborative Report

From Date: To Date: or Select:

1) % of Ryan White HIV/AIDS clients with 2 CD4 tests in a year		
1. Clients eligible for indicator		142 (List)
2. Clients who are in this indicator		106 (List)
3. Clients who are not in this indicator		36 (List)
Indicator Percentage		74.6%

2) % AIDS clients who are prescribed HAART		
1. Clients eligible for indicator		79 (List)
2. Clients who are in this indicator		65 (List)
3. Clients who are not in this indicator		14 (List)
Indicator Percentage		82.3%

[Close]

RFG85782

TGY785284

HFP234936

WHF845388

UIG734935

GEK857147

PWJ51285

WHY245167

DIY832546

RPH972456

EOK982857


1. User clicks on the number of clients NOT in the numerator.

2. A list of clients pops up.

3. Staff drill-down to each client record and use it as a tool for follow-up.

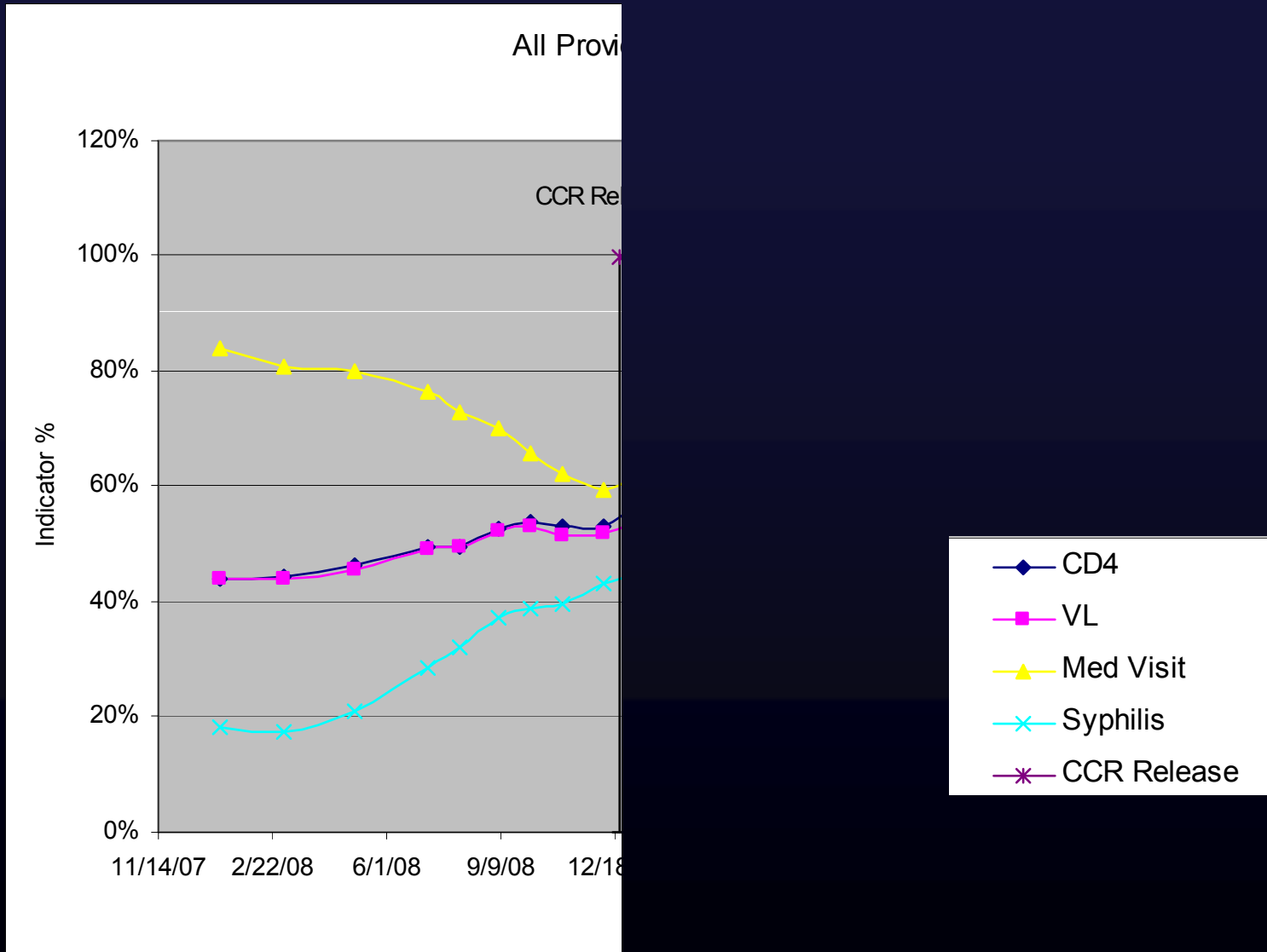
Benchmark Data Feature Added

Cross Collaborative Report

From Date: To Date: or Select: 

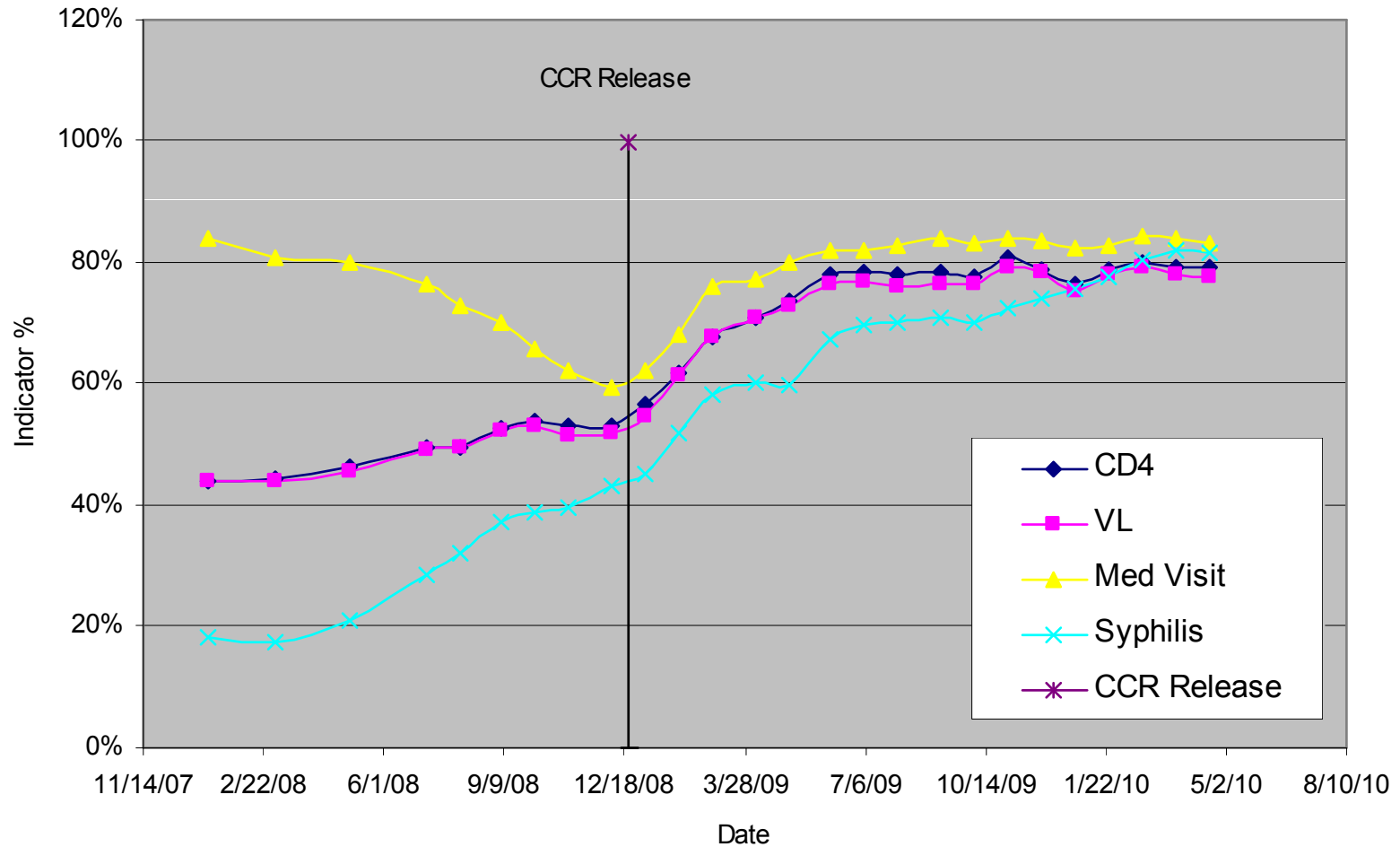
1) % of Ryan White HIV/AIDS clients with 2 CD4 tests in a year [?]	
1. Clients eligible for indicator	88 (List)
2. Clients who are in this indicator	64 (List)
3. Clients who are not in this indicator	24 (List)
Indicator Percentage	72.7%
State of New Jersey Average Indicator Percentage	75.4%

Cross Part Collaborative Outcomes

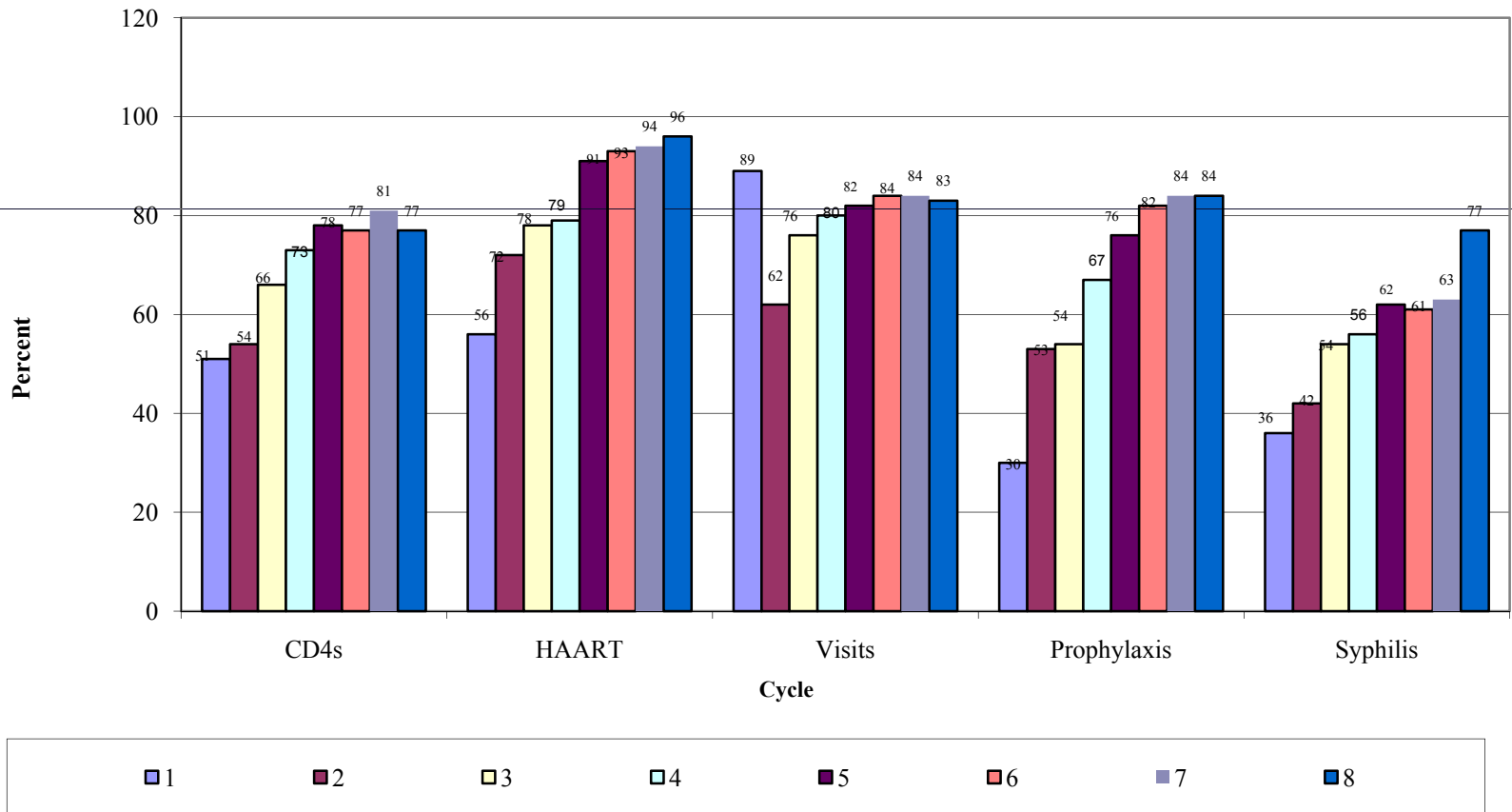


Cross Part Collaborative Outcomes

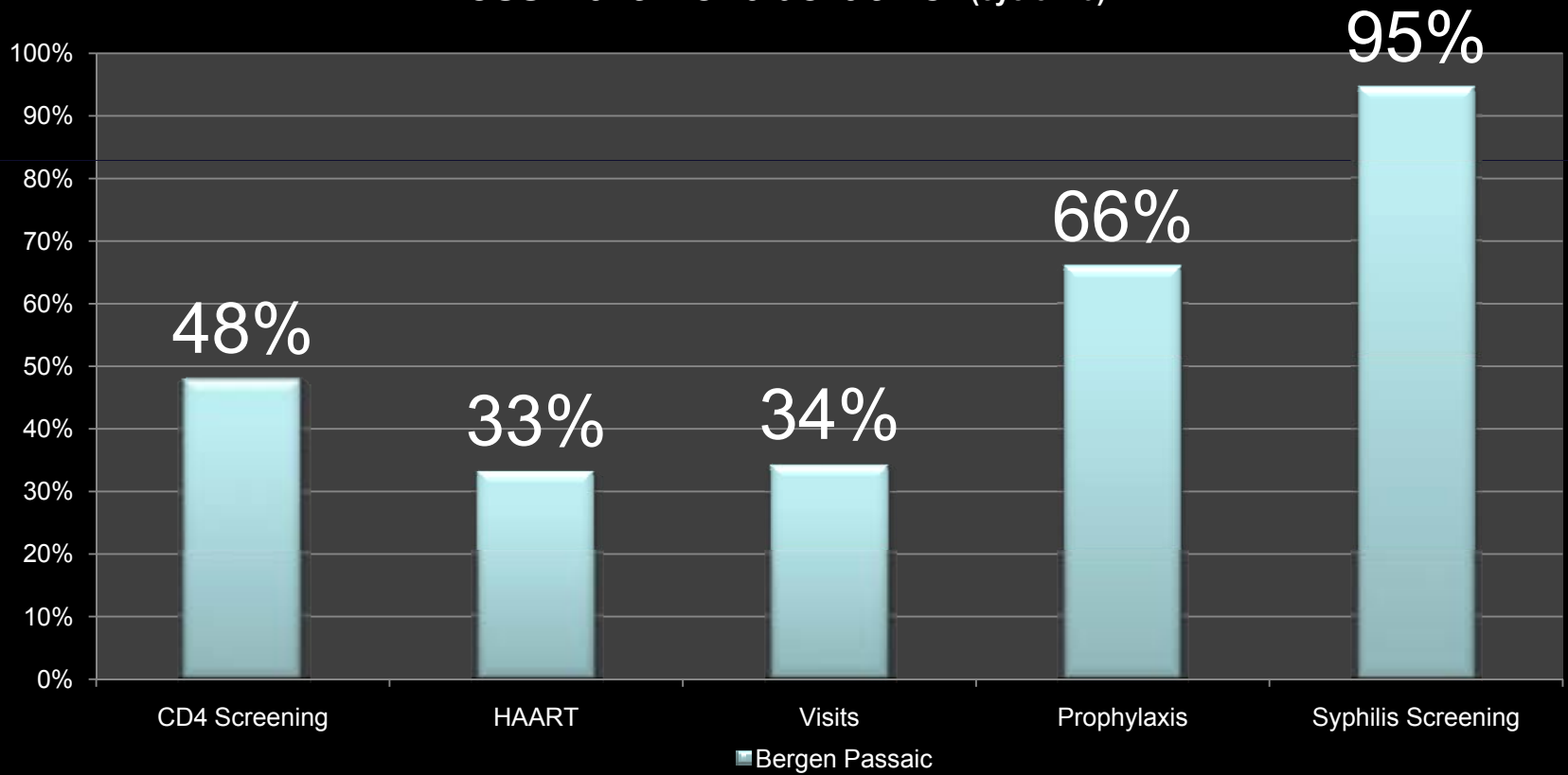
All Providers - By Indicator



Cross Part Collaborative Clinical Outcomes @ a Glance Bergen-Passaic Cycle 1-8 CPC Data



Bergen-Passaic Indicators Improvement Cross Part Collaborative (cycle 2-9)



From Interactive to Proactive

eCOMPAS Alerts

Agency Alerts

[Search](#)[Bulk/Group](#)[Referrals](#)[Outreach](#)[Useful Links](#)[Tracker](#)[QM \(799\)](#)[Alerts](#) | [Alert Subscriptions](#) | [Journaling](#)

Summary of Current Alerts

Click on each alert for details.

Type	Upcoming Alerts	Past-Due Alerts	Recommendation
CD4 test not performed within past three months [?]	0	160	Consider scheduling or following-up to conduct CD4 test
VL test not performed within [?] past three months	0	164	Consider scheduling or following-up to conduct a VL test
No medical appointment in the past three months [?]	N/A	168	Consider scheduling or following-up to ensure medical appointment
CD4 results less than 200 [?] but status has not changed to AIDS	N/A	7	Review records and ensure the HIV Status is correct. It may need to be changed to AIDS.
No TB/TST conducted within [?] 12 months of the last TB/TST	N/A	122	Consider scheduling or following-up to conduct TB/TST
Active clients who have not [?] received any services in the past 6 months	N/A	178	Review client records and try to reconnect them to services or mark as inactive.

All recommendations assume that you first ensure that the data (e.g., CD4 test date and value) has been entered into eCOMPAS.

If you wish to suggest a new alert click [here](#)

Agency Alerts Drilldown

[Search](#)
[Bulk/Group](#)
[Referrals](#)
[Outreach](#)
[Useful Links](#)
[Tracker](#)
[QM](#)

[Alerts](#) | [Alert Subscriptions](#) | [Journaling](#)

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VL test not performed past three months			Consider scheduling or following-up to conduct a VL test
No medical appointment the past three months			Consider scheduling or following-up to ensure medical appointment
CD4 results less than but status has not of AIDS			Review records and ensure the HIV Status is correct. It may need to be changed to AIDS.
No TB/TST conducted 12 months of the last			Consider scheduling or following-up to conduct TB/TST
Active clients who have received any services 6 months			Review client records and try to reconnect them to services or mark as inactive.

[\[Close\]](#)

[ADM304231](#)

[ADM837106](#)

[AFF234024](#)

[AGM68910](#)

[AKF081401](#)

[AKF698605](#)

[APM000418](#)

[ARF613718](#)

[AVM764014](#)

[BDF733019](#)

[BPF911810](#)

[CBM923618](#)

[CMF470719](#)

[CNM530706](#)

[CPF258630](#)

[CSF864031](#)

[DCM728809](#)

[DCM815425](#)

Linked to Exact Screen

Basic Information

ID:	[REDACTED]	Status:	Active	First Name:	A*	Last Name:	K*
Gender:	Female	SSN:	6986	Birth Date:	[REDACTED]	Age:	51

Last Medical Visit:

HIV Care Specialist:

Alerts: **CD4**

[more...](#)

Missed Medical Appointm

Viral Load

TB / TST Due

[General Info](#)

[Medical](#)

[Direct Services](#)

[Lookup](#)

[Client Referrals](#)

[Outcomes](#)

[Alerts \(5\)](#)

[Demographics](#) | [HIV and AIDS Info](#) | [Socio-Economic Info](#) | [Income Data](#) | [Income Sources](#) | [Documents on File](#) | [Notes](#)

Client Information

[top](#)

Current Gender	Female	Gender at Birth	Female
CM (non-medical)			
Medical CM	[REDACTED]		
Zip Code	[REDACTED]	Birth Place	
County	PASSAIC	City	CLIFTON
		State	NJ

Client Status

[top](#)

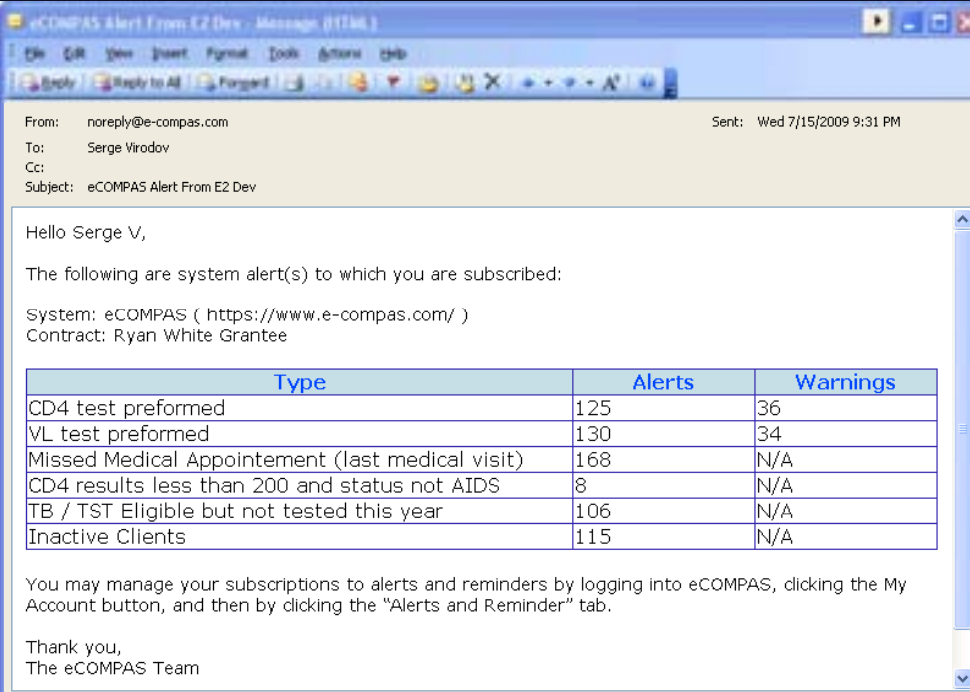
Client Status

Active

Referral Source

Email Alerts

- Proactive, regular, *push* notification
- Clicking sends to secure site
- Same summary as the agency report in eCOMPAS



eCOMPAS Alert From E2 Dev - Message (HTML)

From: noreply@e-compas.com Sent: Wed 7/15/2009 9:31 PM
To: Serge Virodov
Cc:
Subject: eCOMPAS Alert From E2 Dev

Hello Serge V,

The following are system alert(s) to which you are subscribed:

System: eCOMPAS (<https://www.e-compas.com/>)
Contract: Ryan White Grantee

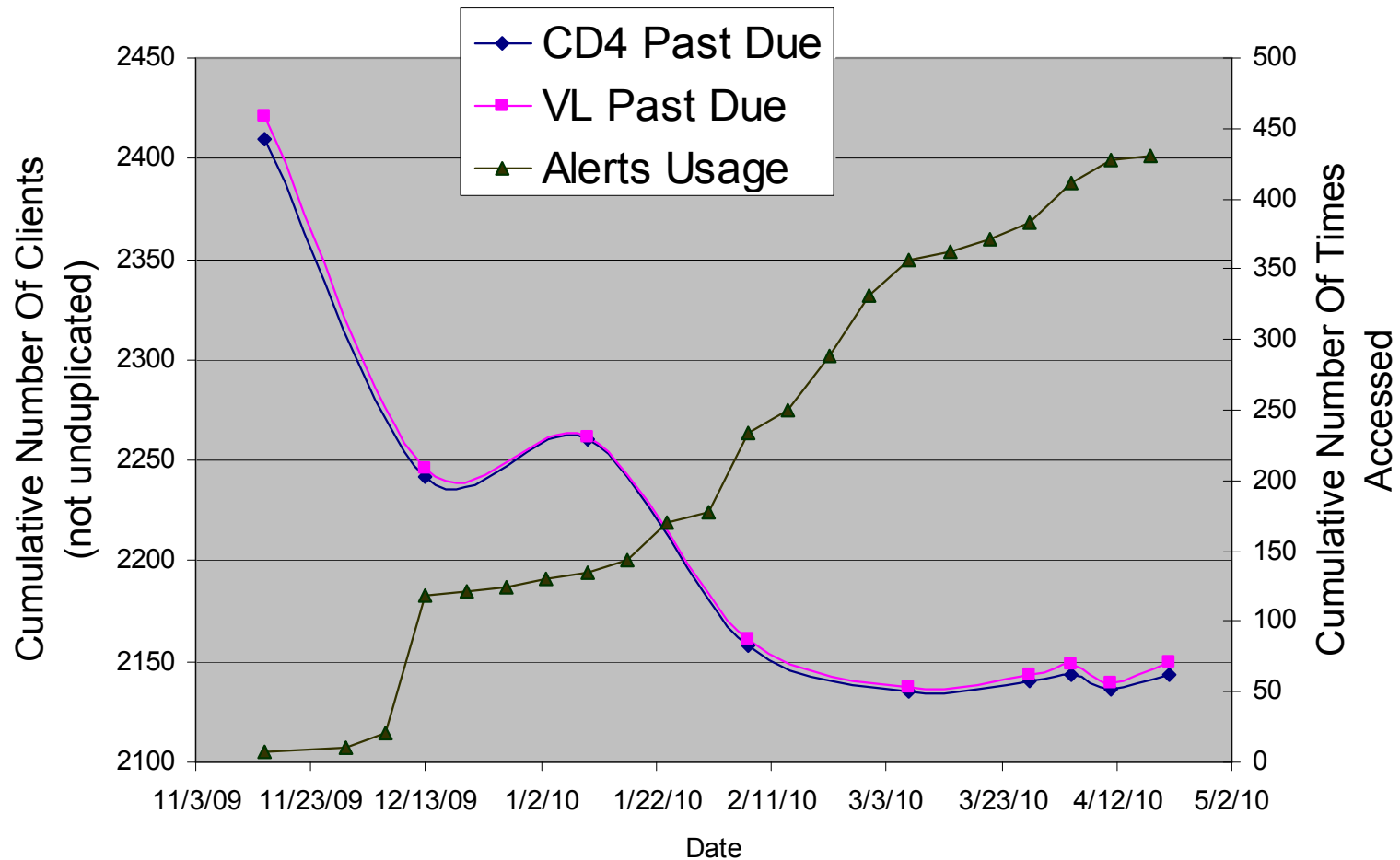
Type	Alerts	Warnings
CD4 test preformed	125	36
VL test preformed	130	34
Missed Medical Appointment (last medical visit)	168	N/A
CD4 results less than 200 and status not AIDS	8	N/A
TB / TST Eligible but not tested this year	106	N/A
Inactive Clients	115	N/A

You may manage your subscriptions to alerts and reminders by logging into eCOMPAS, clicking the My Account button, and then by clicking the "Alerts and Reminder" tab.

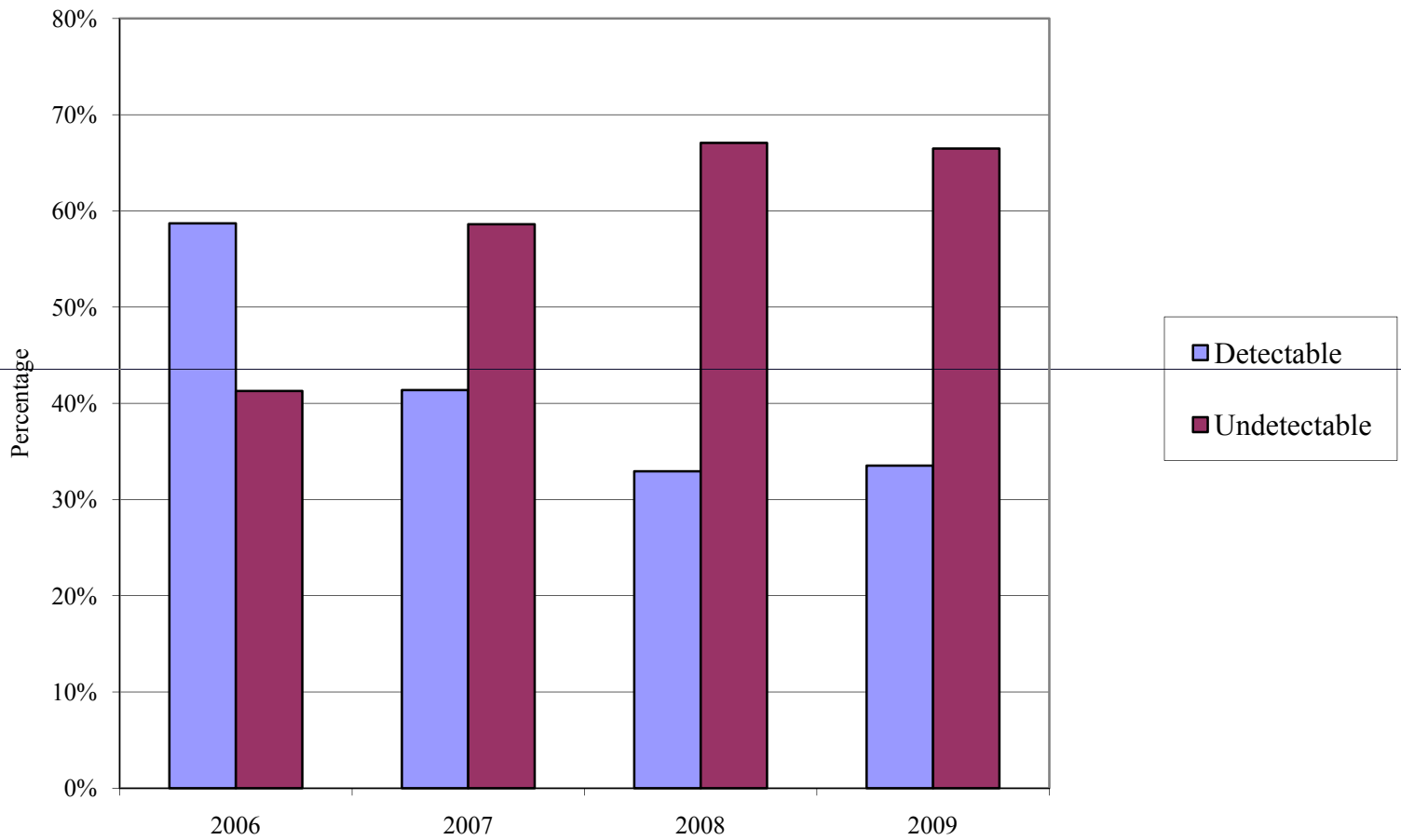
Thank you,
The eCOMPAS Team

Alerts Module Usage vs. Outcomes

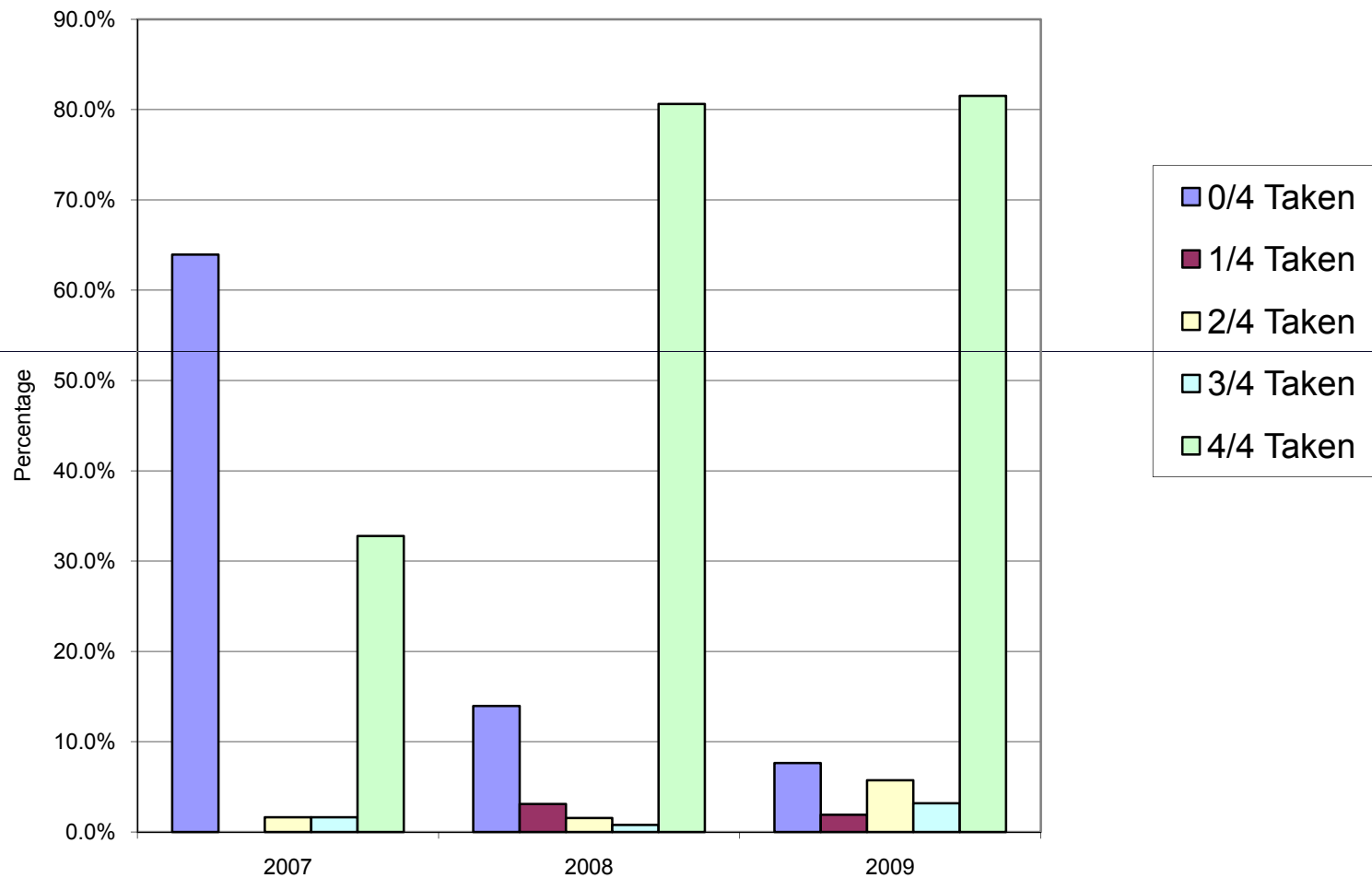
Alerts Usage vs. Number of Alerts



Viral Load



Medication Adherence



Connecting the Community to
Network Resources

...and Assisting Case Managers with
Referrals

Online Community Resource Guide

"The smart alternative to paper-based outcomes management"



COMPAS

ELECTRONIC COMPREHENSIVE OUTCOMES MEASUREMENT PROGRAM FOR AIDS/HIV SERVICES



Map Satellite Hybrid

Northeast Life Skills Associates
121 Howe Avenue
Passaic NJ, 07055

[Get Directions](#)

Want to limit the agencies shown? Click [here](#).

1. St. Mary's Hospital [\[Top\]](#)

350 Boulevard
Passaic, NJ, 07055

Priscilla Moschella, EIP Clinic, Medical Case Manager

☎ (973) 594-7808

☎ (973) 594-7809

📍 [Click Here to Contact this Agency](#)

Services

- Substance Abuse - Group
- HH (Home Health)
Paraprofessional
- Other Services

Online Community Resource Guide

The screenshot shows a Mozilla Firefox browser window with the address bar displaying <http://resources.e-compas.com/>. The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The address bar also shows a search engine icon for Google. The browser's tab bar shows three tabs: "Inbox - Outlook Web Access Light", "Welcome to AIDS NJ.org - Committed to...", and "E2".

The main content of the page is a green-themed banner with the text: *"The smart alternative to paper-based outcomes management"*. Below this is the eCOMPAS logo, which consists of a stylized 'e' followed by the word "COMPAS" in a serif font. Underneath the logo is the text: "ELECTRONIC COMPREHENSIVE OUTCOMES MEASUREMENT PROGRAM FOR AIDS/HIV SERVICES". To the right of the logo are three small portrait photos of diverse individuals.

Below the banner is the heading: "Bergen-Passaic eCOMPAS® Resource Guide". Underneath this heading is a filter option: "Show only providers who provide: ALL SERVICES".

The main feature is a satellite map of Hackensack, NJ. A red location pin is placed on the map, and a white information box (pop-up) is displayed over it. The text in the pop-up reads: "Hackensack University Medical Center", "20 Prospect Avenue, Suite 507", and "Hackensack NJ, 07601". The map interface includes a vertical zoom slider on the left and a navigation menu at the top right with options for "Map", "Satellite", "Hybrid", and "Earth".

Filters

Filters ✕

Show sites that offer this service:

Clinical Case Management ▼

Show sites within: 10 miles ▼


From this location:

220 Scoles Ave
Clifton, NJ
07932

submit

Directions (cont.)

Directions



220 Scales Ave, Clifton, NJ 07012

1.9 mi (about 6 mins)

1. Head southeast on Scales Ave toward Ellsworth St 0.5 mi
2. Turn left at Bloomfield Ave 0.1 mi
3. Continue onto Broadway/Passaic County 622 1.1 mi
4. Turn left at Gregory Ave 0.1 mi
5. Slight right at Myrtle Ave 285 ft
6. Turn right at Howe Ave 82 ft
Destination will be on the right

121 Howe Ave, Passaic, NJ 07055

Agency Editor to Keep Content Updated

Select Site to Edit

Bergen County Department of Health Services ▼

Add New Site

Remove This Site

General Information

Name

Address

City

State

Zip

Evaluation and Data Collection

The slide features a solid blue background. On the right side, there are decorative geometric elements: a large, light blue curved shape that starts near the top right and curves downwards, and a smaller, darker blue triangular shape pointing towards the top right, partially overlapping the larger shape.

Pre-Implementation Interviews Commonalities

- **Satisfaction with e2 as an information tool.**
- **Comfort levels and enthusiasm high, especially among medical clinics.**
- **General acceptance of electronic health information and information exchange**

Monthly Progress Worksheet

Purpose:

- **To obtain feedback and ideas that drive this SPNS process.**
- **To stimulate creative thinking and document success stories and ideas.**
- **To facilitate peer learning**

Monthly Progress Reports

1. Do you have any success stories or statistics to share?
2. **What did you do in the past 30 days** to use technology, data or data sharing to make a positive impact toward the SPNS goals and objectives?
3. **What are you planning on doing in the next 30 days** to advance the SPNS goals and objectives?
4. What challenges or barriers did you experience in the last 30 days that may have impacted the use of technology and data, and were you able to overcome them?
5. What **creative ideas** do you have in how the system or protocols can be modified for a greater impact?

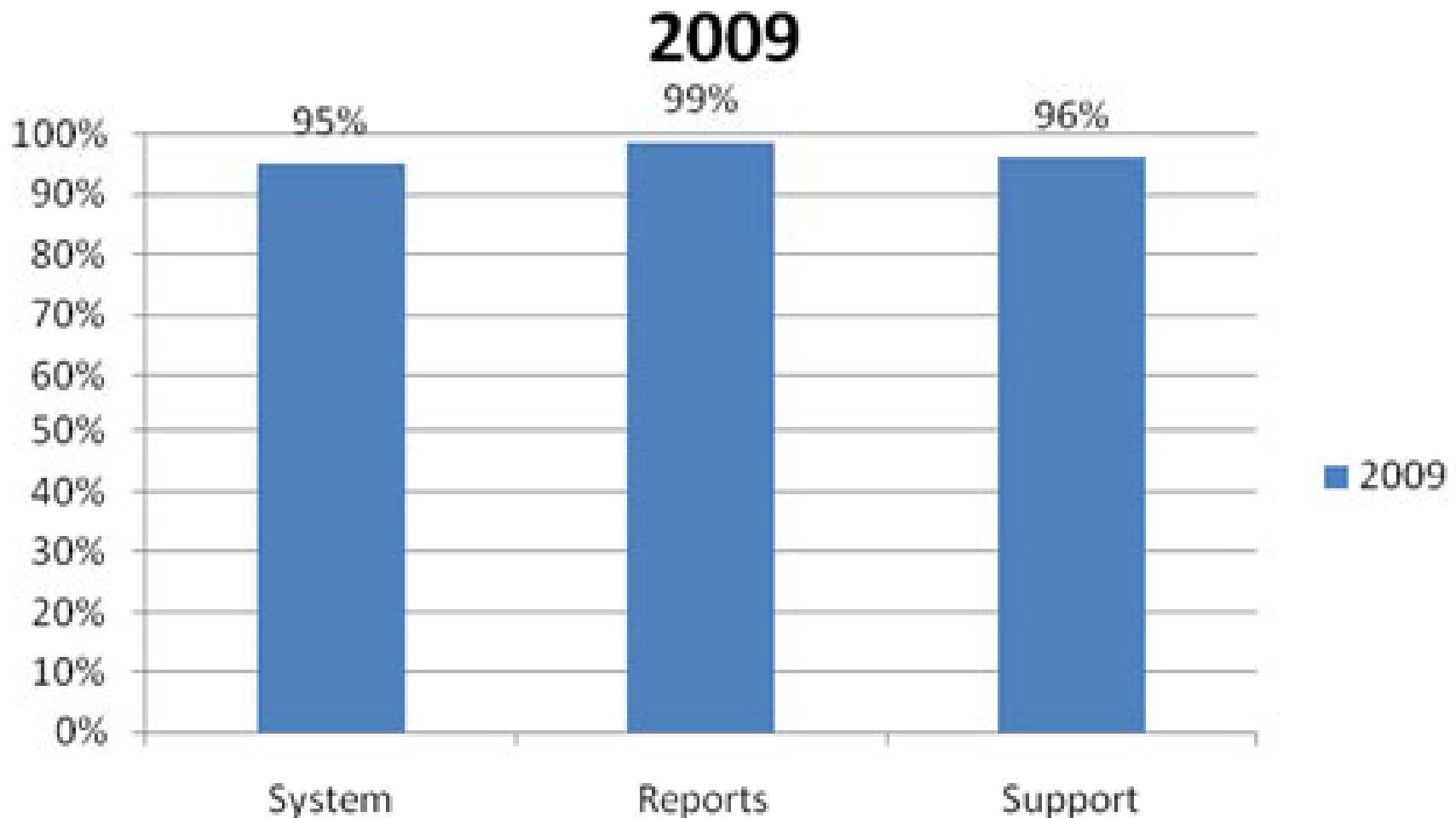
Two Short Vignettes

- The Story of Major Staff Turnover
- The Story of Affecting Private Practice

Proactive Courtesy Calls and Evaluation From Tech Support

1. Any problems or barriers with using the system?
 2. To what degree is the system saving you time?
 3. To what degree is the system reporting effective for you?
 4. How is technical assistance and support for you?
 5. **If not a “10”, what can we do to make it a “10”?**
- “The fact that someone calls me to make sure that all is well and to see if I have any ideas is just great.”

User Satisfaction Results: Proactive Courtesy Calls



User / Stakeholders Responses

- “eCOMPAS is a no-brainer; it gives us **structure**. The meetings are helpful.”
– Nurse
- “I like the system. It gives us a **uniform structure**. I like structure as a supervisor because of **new staff**. We designed the enhancements continuously. Meetings have been invaluable.” – Program Director
- “The system is wonderful. **It is my teacher. It tells me my priorities.** It’s better than looking through charts. It is very helpful to me.” – Nurse
- “Done an incredible amount of work to make eCOMPAS. Easy to use. Very useful when I’m on the phone. I can be more responsive. It is useful for case conferencing. **I can look up information myself instead of calling and interrupting staff.** The reporting is helping us to change and improve the way we do things.” – Nursing Supervisor
- “eCOMPAS helps us to prioritize and organize. It **helps us to follow-up with the doctor.**” – Nurse
- “This system is very important to me. It tells me what to do to get them back in care. **There is always an announcement of something nice that is new.**” – Medical Assistant

Some Lessons Learned

1. Users and clinicians can do amazing things with the right **tools**, the right **process**, and the right **leadership**.
2. With its emphasis on evaluation, the **HRSA SPNS** program is an incredible asset.
3. Eliciting needs from stakeholders regularly and engaging them throughout is time-consuming, but the **return on investment** is worth it.
4. **“Partnership paradigm”** is key.

How do we accomplish ambitious goals?



One bite at a time.

Web ACASI

*"The smart alternative to paper-based
outcomes management"*

ECOMPAS

ELECTRONIC COMPREHENSIVE OUTCOMES MEASUREMENT PROGRAM FOR AIDS/HIV SERVICES



Do you need some practice questions?

Yes

No



Previous
Question



Next
Question



Repeat the
Question

Progress:

25%

50%

75%

100%

3%

Please check the categories that best describe what may have put you at risk for getting HIV: (Check all that apply)

I am a male who has sex with men

I am an injection drug user

I have Hemophilia/ coagulation disorder

Heterosexual contact

Receipt of transfusion of blood, blood components or tissue

Other



Don't Know



Previous Question



Next Question



Repeat the Question



of surveys increased through
e2 Web-ACASI

ACASI

PC-Based

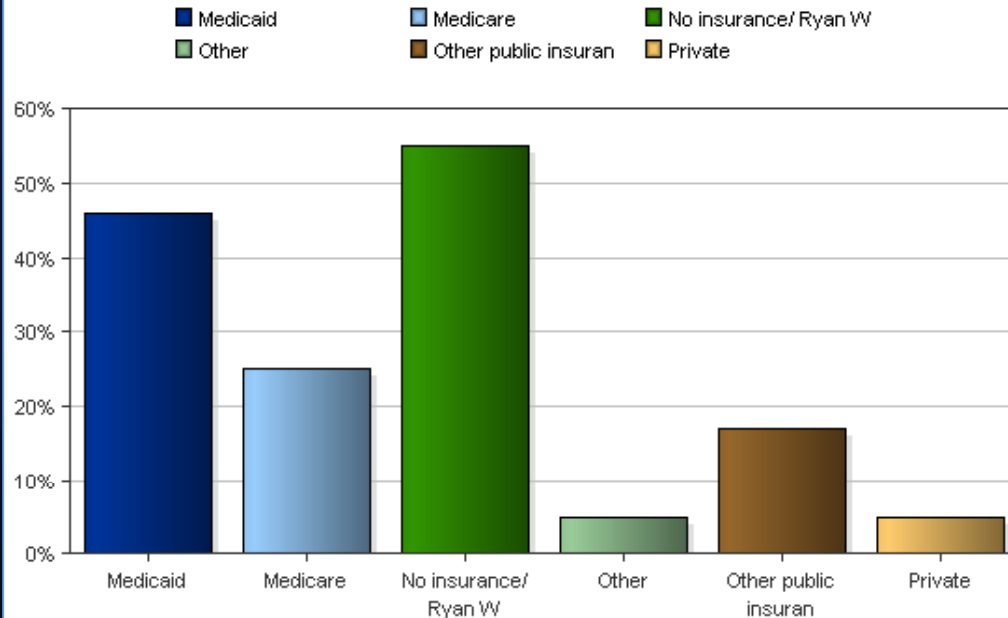
- Software installation / updates.
- Manual backup process.
- Weekly manual data upload.
- No mute capability.
- Staff must input respondent ID and other answers.
- Manual saving of survey data.
- Survey protocol and procedures for above items.
- Manual analysis of data.

Web-Based (eCOMPAS)

- No software installation or updates or IT staff needed
- Automated nightly central backups.
- Real-time data access.
- Mute feature
- Less data entry for staff (e.g., automatically generated respondent IDs)
- Automatic saving of data
- Simplified survey protocol
- Visual Analytics applied.

ACASI Visual Analytics

Please check all of your sources of medical insurance during the past six months:

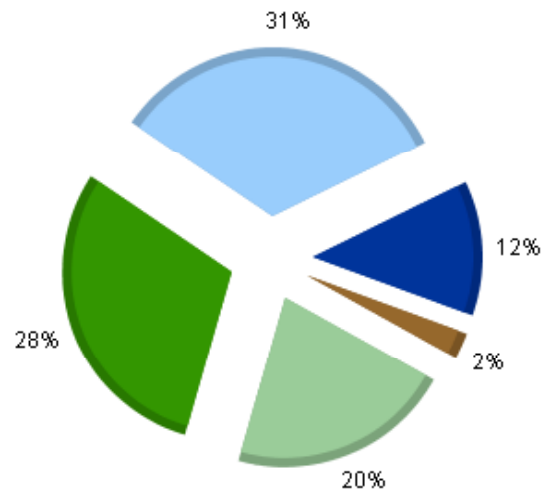


	Index	
	Count	%
Medicaid	<u>30</u>	46.15%
Medicare	<u>16</u>	24.62%
No insurance/ Ryan White (ADAP)	<u>36</u>	55.38%
Other	<u>3</u>	4.62%
Other public insurance	<u>11</u>	16.92%
Private	<u>3</u>	4.62%
Total	<u>62</u>	95.38%

ACASI Reporting

What was the result of your most recent CD4 cell count (cells/ cubic mm)?

■ Less than 200 ■ Between 200 and 349 ■ Between 350 and 499
■ 500 or higher ■ Never tested



	Index	
	Count	%
Less than 200	<u>8</u>	12.31%
Between 200 and 349	<u>20</u>	30.77%
Between 350 and 499	<u>18</u>	27.69%
500 or higher	<u>13</u>	20.00%
Never tested	<u>1</u>	1.54%
Total	60	92.31%

ACASI Filtering and Breakdowns

eCOMPAS ACASI Visual Analytics

| Start New | **Draft** | Saved Reports |

1. Select reporting period:
From Date: To Date: or Select:

2. Break down by: **3. Select Section:**

4. Custom Filters:

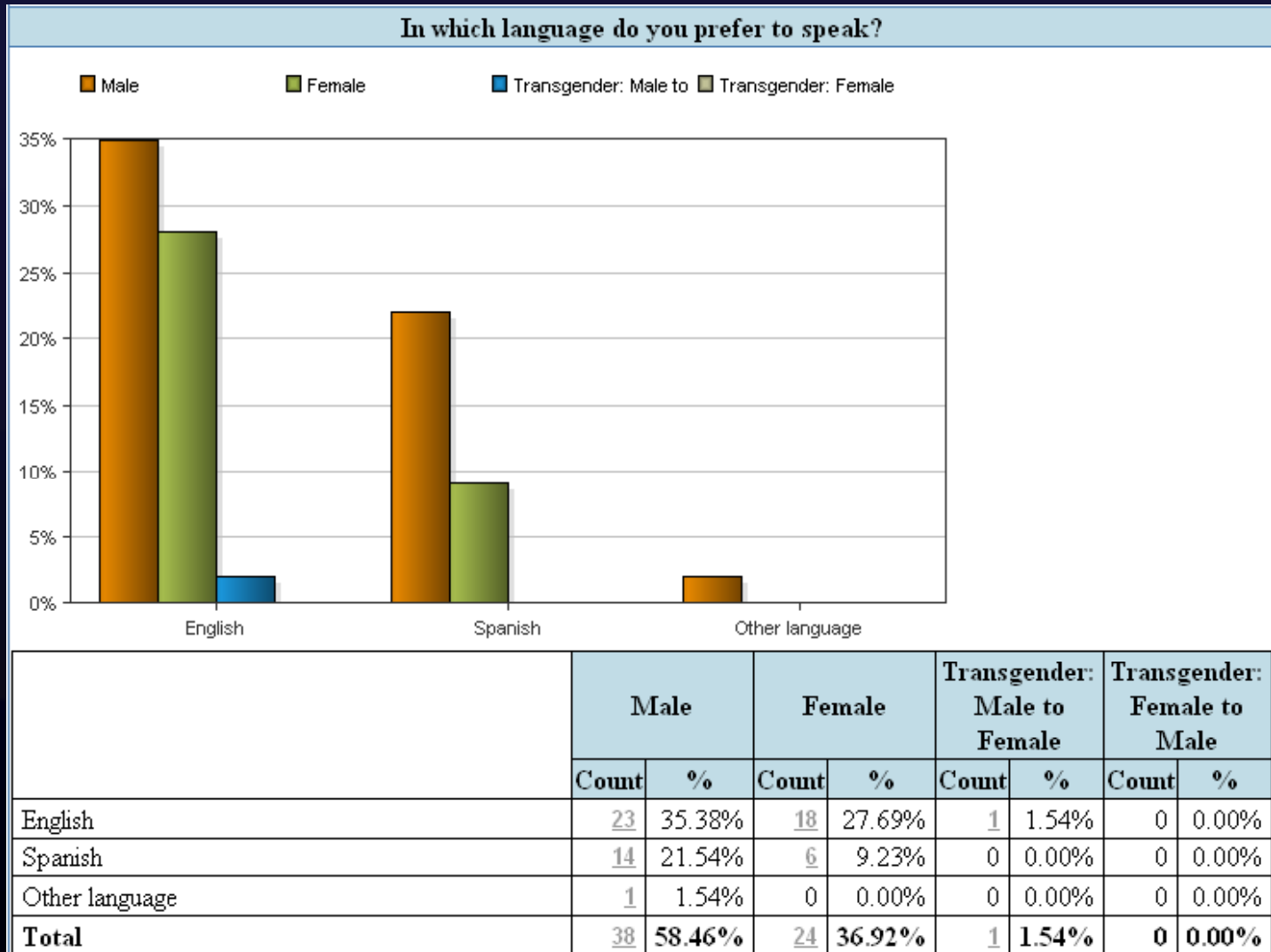
Answer to: is AND

Answer to: is AND

Answer to: is AND

Answer to: is AND

ACASI Report Break Down



ACASI Report Break Down with Data Drill Down

