

# THE PERFECT COUPLE: CLINICAL QUALITY & PROGRAM OUTCOMES

Using Data to Improve Clinical Practice

Cathie McLean MA, LPC, CAC-III

P. Antonio Olmos-Gallo, Ph.D.

C.J. McKinney, ABD

Mental Health Center of Denver



American Evaluation Association Conference 2010

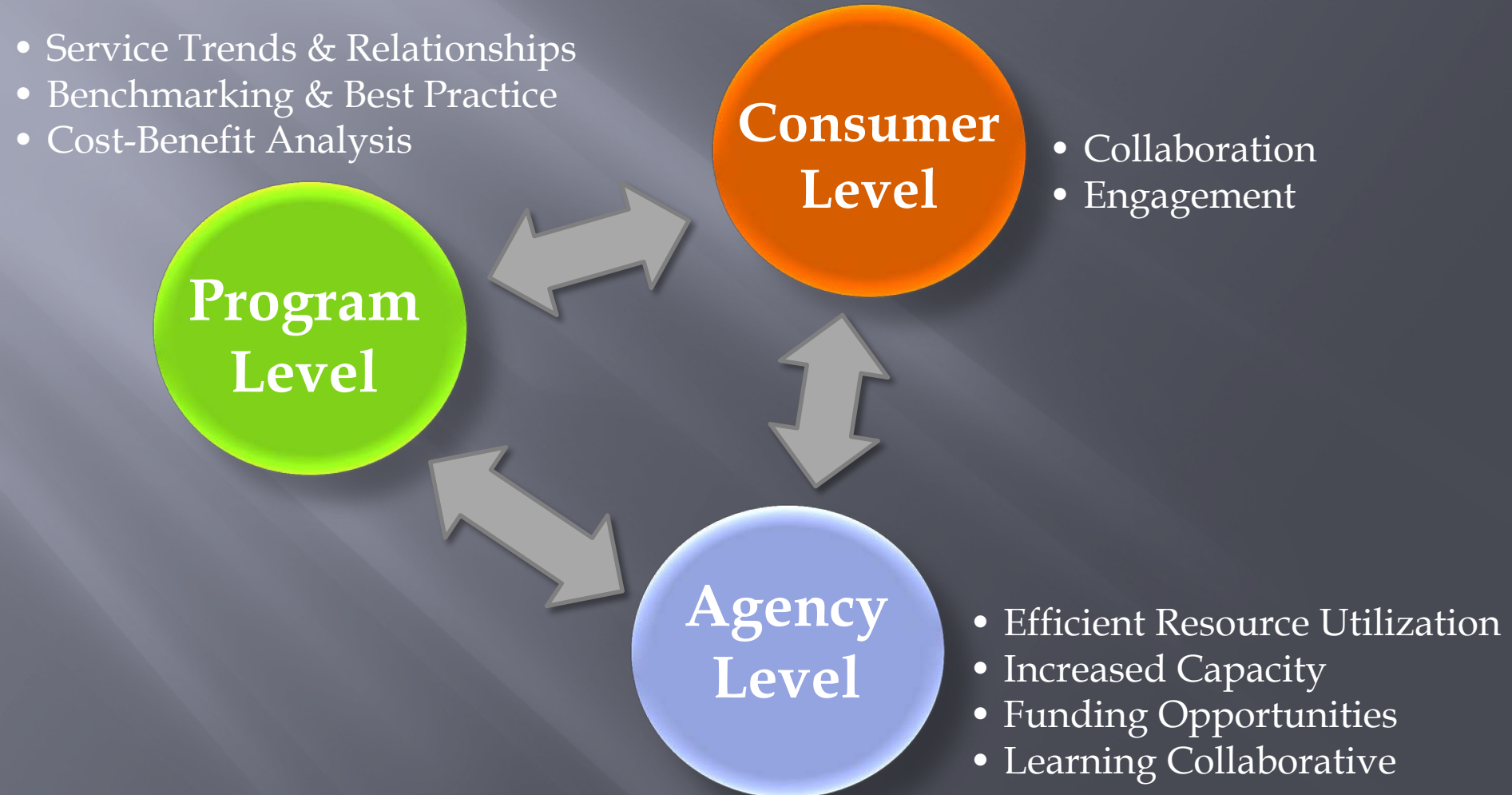
San Antonio, TX

# Health Care Reform

## Emphasis on accountability and performance measurement

- ▣ How do you know progress is being made?
- ▣ What's the likelihood the change was attributable to specific services/programs?
- ▣ What implications does that information have for the clinician? Team? Program? Agency?

# Interplay of Outcomes in Quality Management



# Our Data Driving Journey

## Philosophical Conviction

- People can and do recover from mental illness
- Recovery is a dynamic process



## Scientific Evidence

- Instrument development with the help of logic models
- Rigorous testing of instruments




## Informed Practice

- Timely assessment of service efficacy
- Easy access to reports

# Our Organization and Philosophy



# Mental Health Center of Denver




Mental Health Center of Denver  
Enriching Lives and Minds






Support MHCD | Learn About Mental Health | Work at MHCD | Get Help

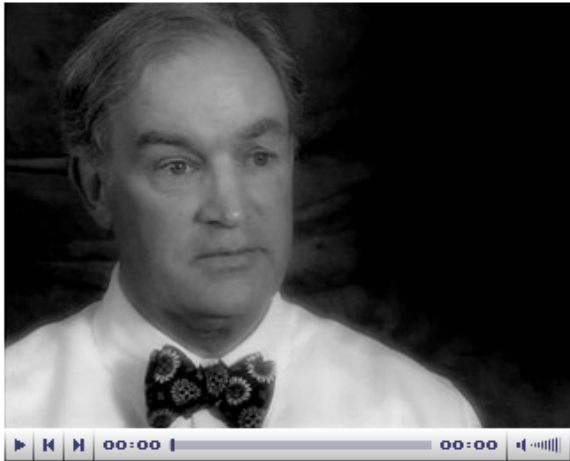
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A Message from Doctor Carl Clark - MHCD Video

How MHCD Changed Griff's Life - MHCD Video

**Recovery is at the very heart and soul of our work at the Mental Health Center of Denver (MHCD).**

We believe people can, and do, recover from mental illness. We are recognized nationally for our successful, ground-breaking approach to mental health treatment. Here our consumers are involved in shaping their own recovery and given the chance to regain control of their lives. [See Robert's story.](#)

Recovery takes on many meanings but for most it means appropriate and compassionate treatment for a mental health problem so that the individual can get back to living a happy and productive life. That's what we provide at MHCD... [More about what MHCD believes.](#)

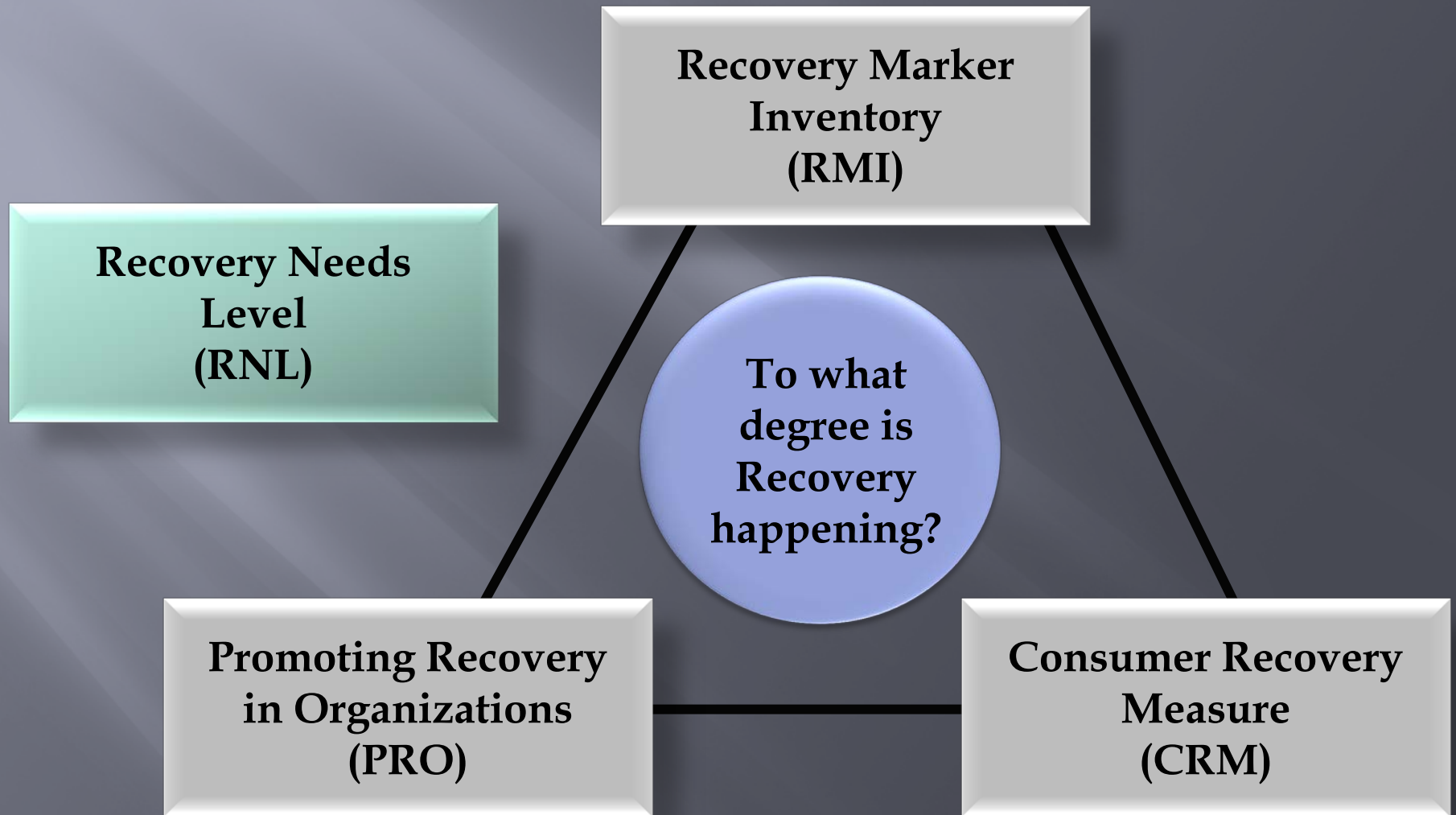
**[Come meet MHCD at  
Enriching Lives and Minds  
March 12 7:45 - 9am](#)**

**Addressing the Needs of Underserved Populations through Community Involvement**

Dr. Lydia Prado's and Kate DeRoche's\* article on Weaving Cultural Competency throughout Community Mental Health Care appeared in the January, 2008

# Development of Recovery Instruments

# Recovery Instruments



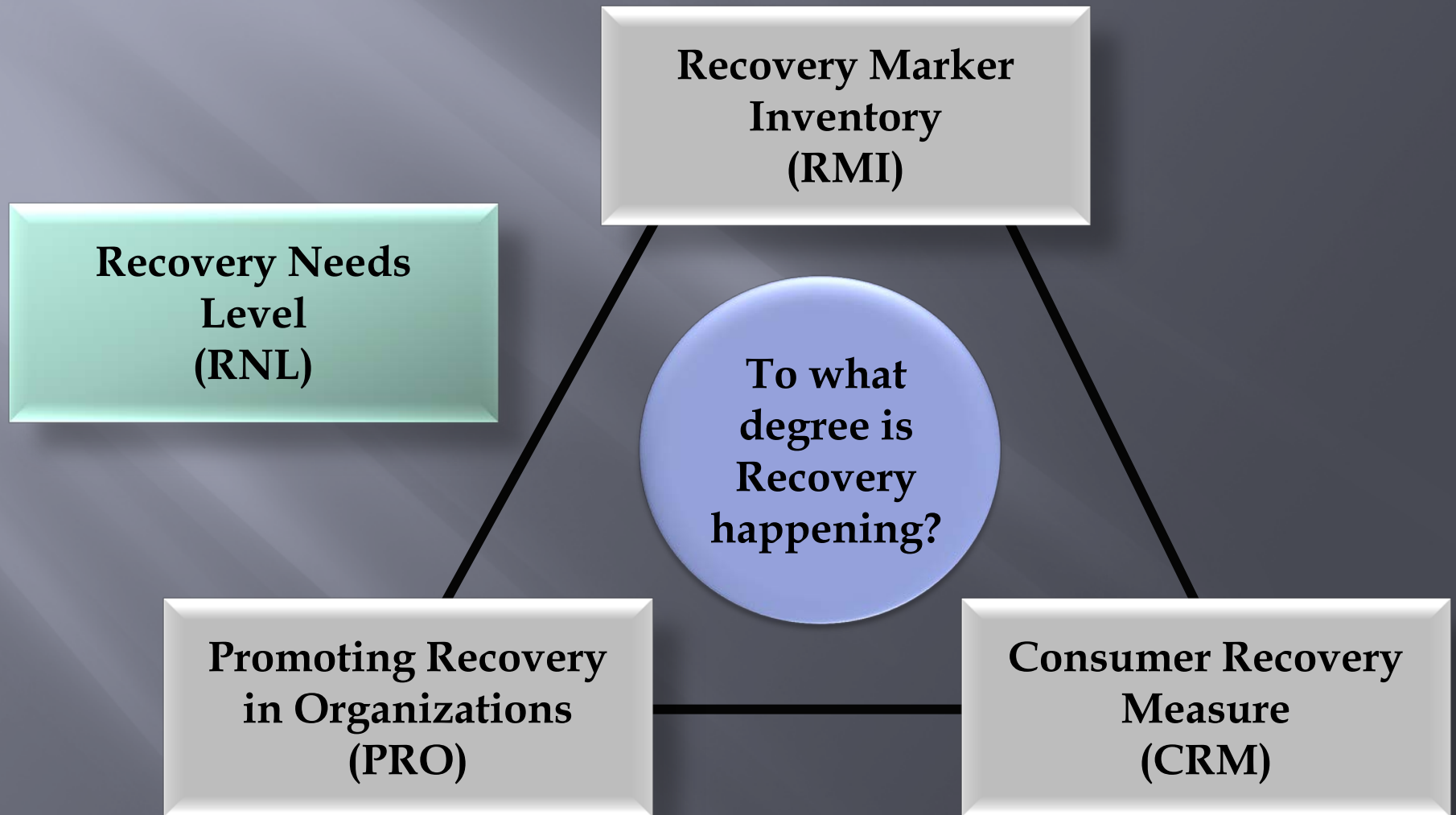


# Recovery Marker Inventory

- ▣ Clinician assessment of consumer recovery across **eight dimensions** and completed **every 3 months**
- ▣ **Reliability**
  - IRT Reliability: Person = .75; Item = 1.00
  - CTT Reliability = .78
- ▣ **Validity**
  - $r(\text{GAF-RMI}) = 0.298^*$
  - $r(\text{CCAR LOF-RMI}) = -0.397^*$
  - $r(\text{CCAR Empowerment-RMI}) = -0.312^*$
  - $r(\text{CCAR Hope-RMI}) = -0.250^*$
  - $r(\text{CCAR Recovery-RMI}) = -0.363^*$

\*  $n = 2761$ ,  $p < 0.01$

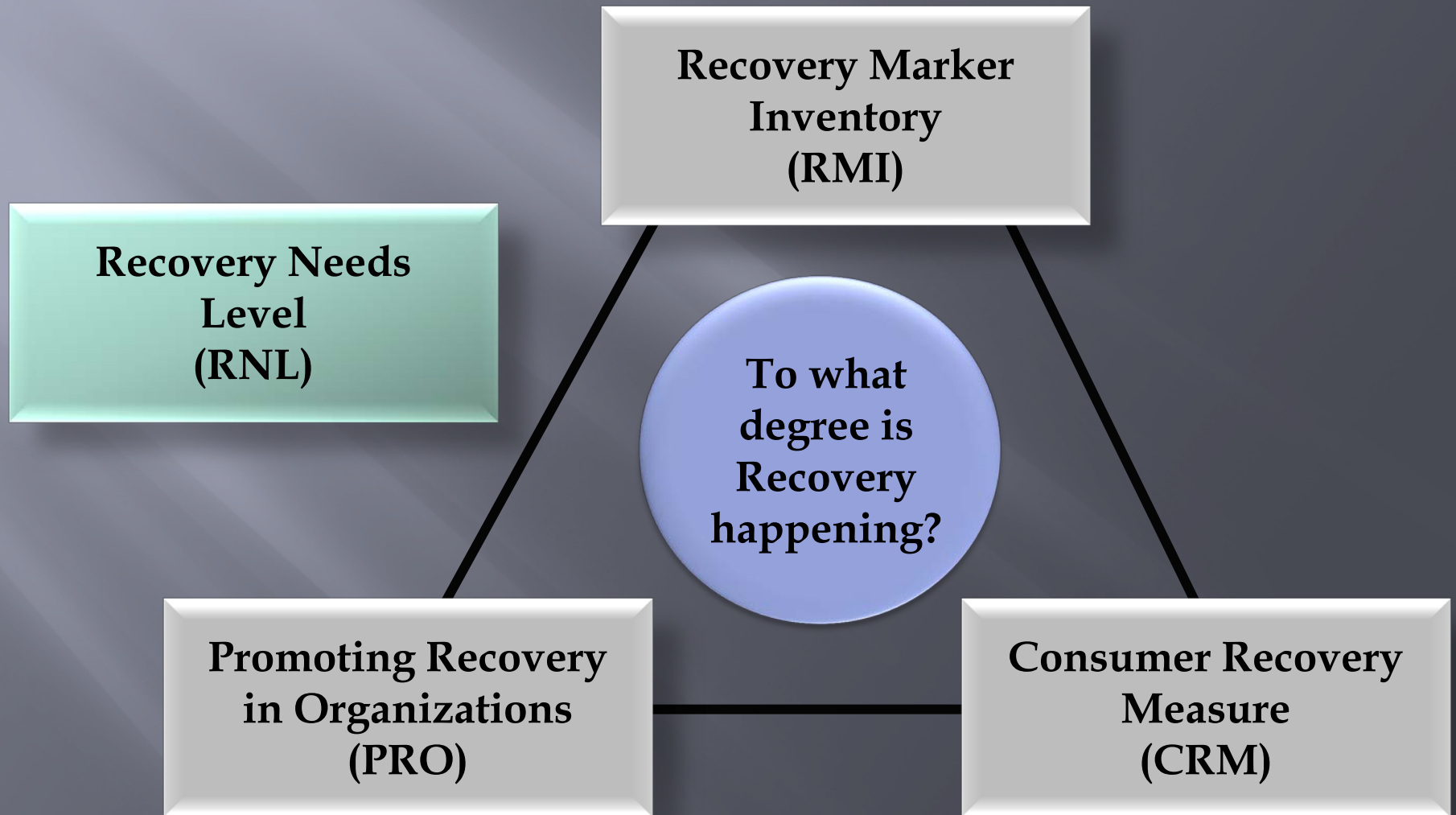
# Recovery Instruments



# Consumer Recovery Measure

- ▣ Consumer's perception of their recovery, across five dimensions associated with recovery; completed every 3 months
- ▣ Reliability
  - CRM V1.0 had a CTT reliability of 0.65
  - CRM V2.0 had an IRT person reliability of 0.67
  - CRM V3.0 has an IRT reliability: **Person = 0.83, Item = 0.99**
  - CRM V3.0 has a **CTT reliability = 0.88**
- ▣ Validity
  - Basis24 Overall -0.30 (N = 150)
  - REE Recovery Markers -0.29 (N = 87)
  - CCAR Recovery Factor -0.19 (N = 4013)

# Recovery Instruments

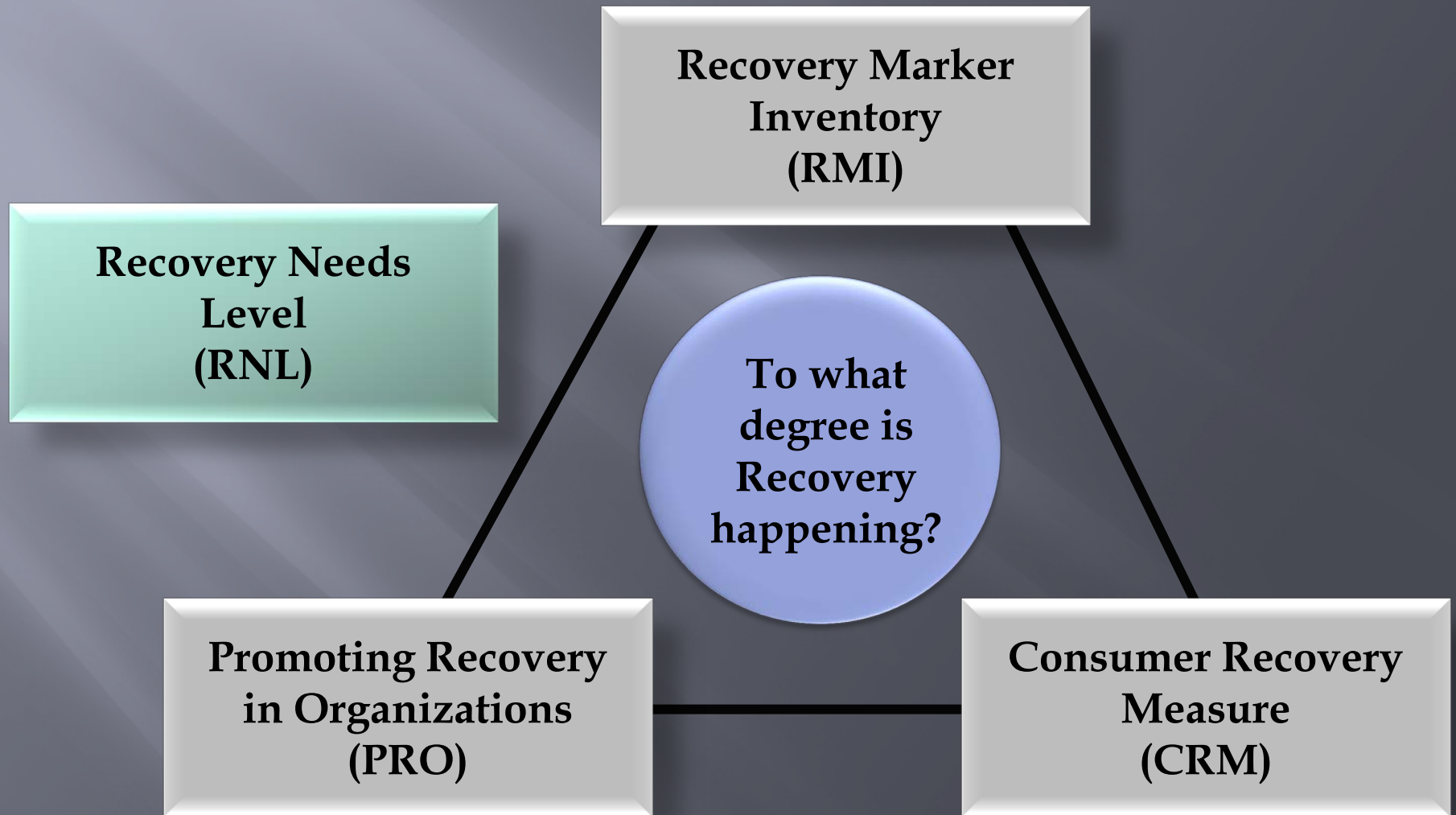


# Promoting Recovery in Mental Health Organizations

- ▣ Consumers rate their mental health program performance factors associated with promoting hope, sense of meaning, wellness, and resiliency
- ▣ Specific sections for each type of staff that interacts with our consumers (front-desk clinical, medical, case managers, rehabilitation)
- ▣ For more information regarding analysis of findings, please visit [www.outcomesmhcd.com](http://www.outcomesmhcd.com) for last year's AEA presentation of "*Evaluation of how mental staff promotes recovery: A Rasch analysis of the PRO survey*"



# Recovery Instruments

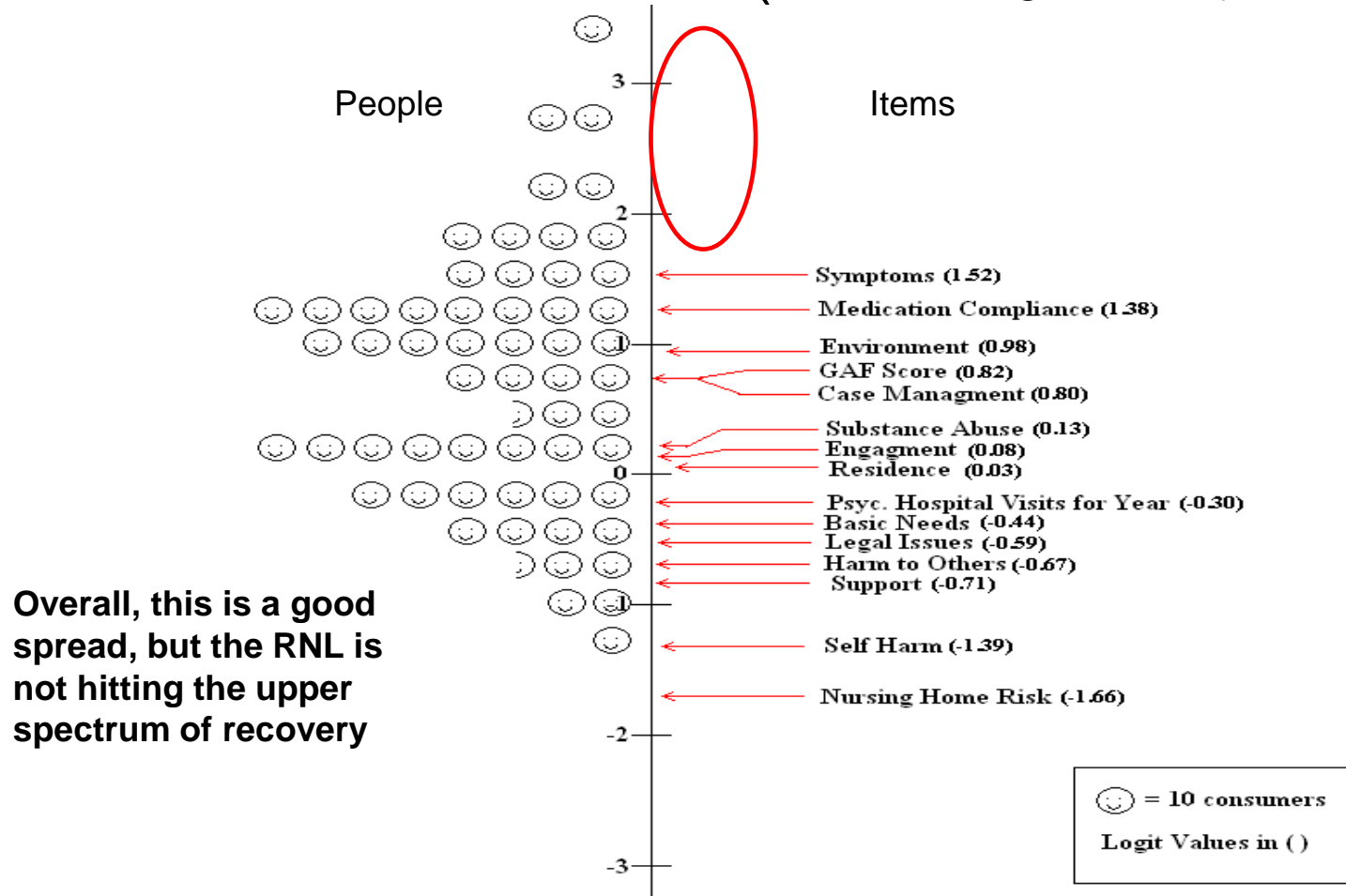


# Recovery Needs Level

- ▣ Clinician recording of consumer needs across 15 indicators; completed every 6 months
- ▣ Electronically scored algorithm that indicates appropriate level of service (assumption: consumer needs change over time)
- ▣ Rasch analyses showed the need for expanding levels to include traditional outpatient services

# RNL: Item-Person Map

## IRT Discrimination (aka Ordering of Items)



\*These are mean “difficulties” of items as a whole, the responses are more spread.

# Data Informed Clinical Practice

# Informed Clinical Practice

Successful information sharing means:

- ▣ Easily accessible – bring it to me, don't make me go look for it because I probably won't
- ▣ Easily understood – tell me what is important so I don't have to sift through a bunch of “stuff” and/or make erroneous guesses
- ▣ Part of the valued organization culture – help me understand the importance of quality systems, outcomes, and my role in those processes



# How well is this individual progressing?



## Individual Profile Consumer Information

Name: XXXXXXXXXXXXX

Date of Birth: XX/XX/XXXX

Age: XX

Team: XXX

Status: Active

GAF: XX

Primary Diagnosis: XXX.xx Primary Diagnosis

Secondary Diagnosis: XXX.xx Secondary Diagnosis

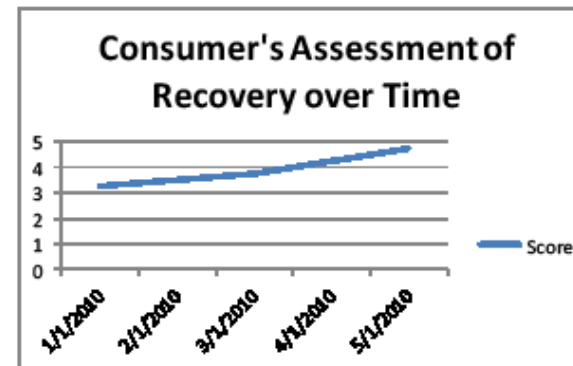
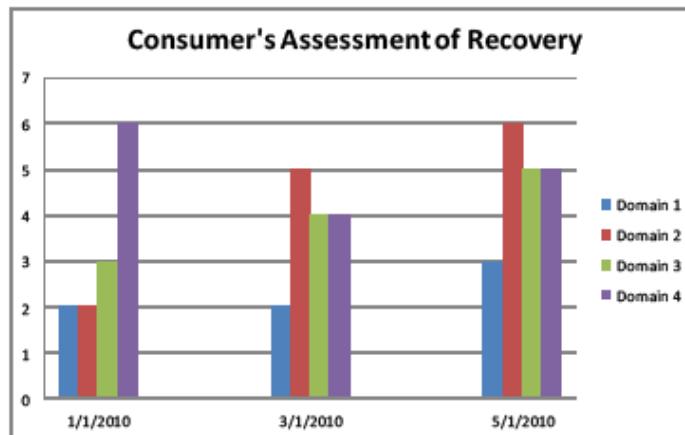
Substance Abuse Diagnosis: XXX.xx Substance Diagnosis

Primary Clinician Name: XXXXXXXXXXXXXXXX

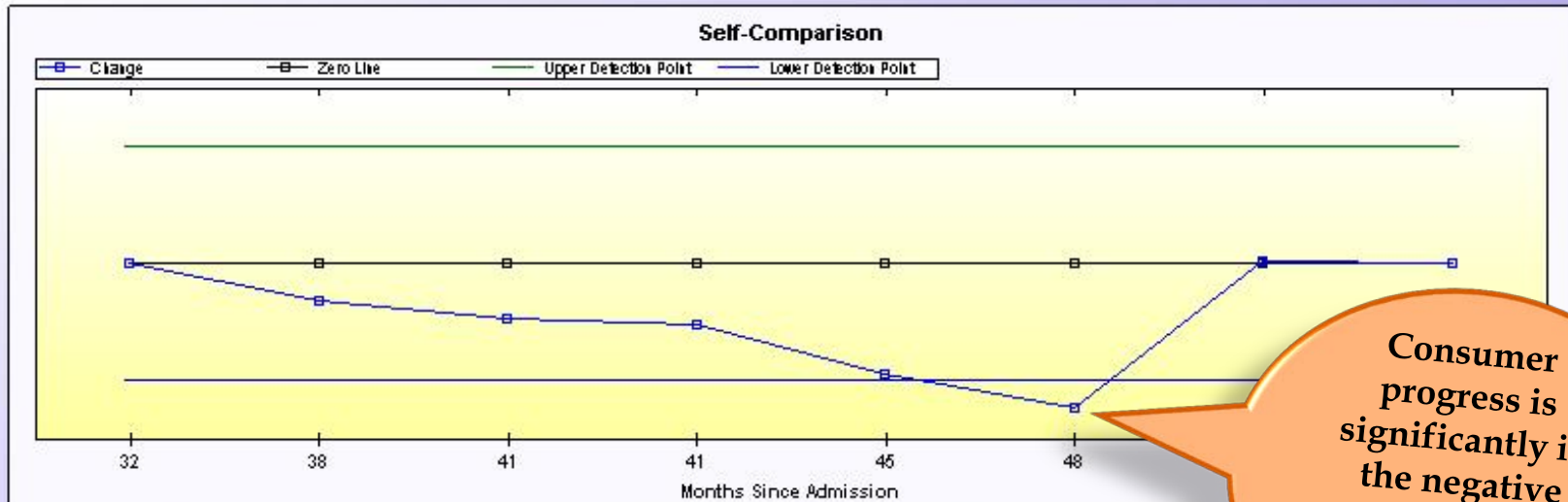
Psychiatrist Name: XXXXXXXXXXXXXXXX

### Consumer's Assessment of Recovery Scores

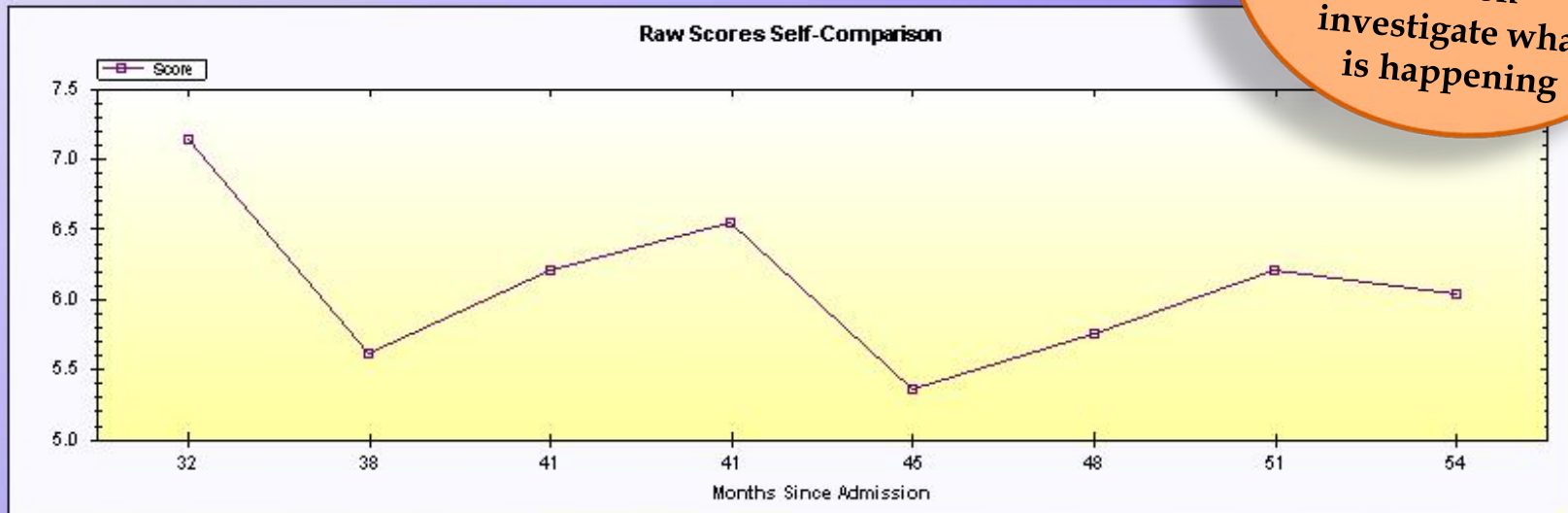
Domain 1	Domain 2	Domain 3	Domain 4	Date	Score
xxx	xxx	xxx	xxx	xx/xx/xxxx	xx.xx
xxx	xxx	xxx	xxx	xx/xx/xxxx	xx.xx
xxx	xxx	xxx	xxx	xx/xx/xxxx	xx.xx



# Change: Self-comparison

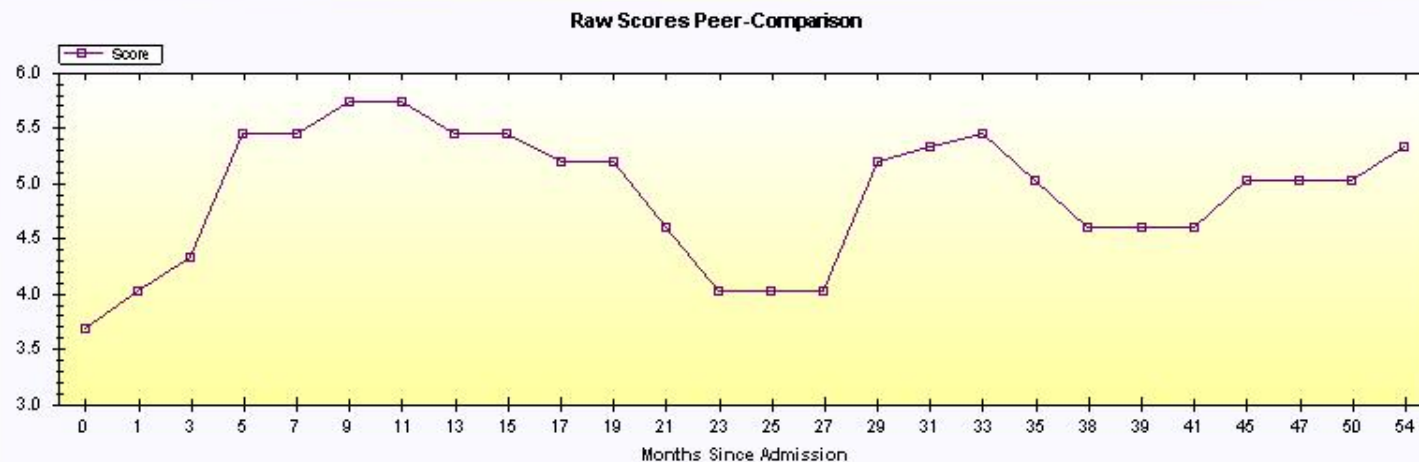
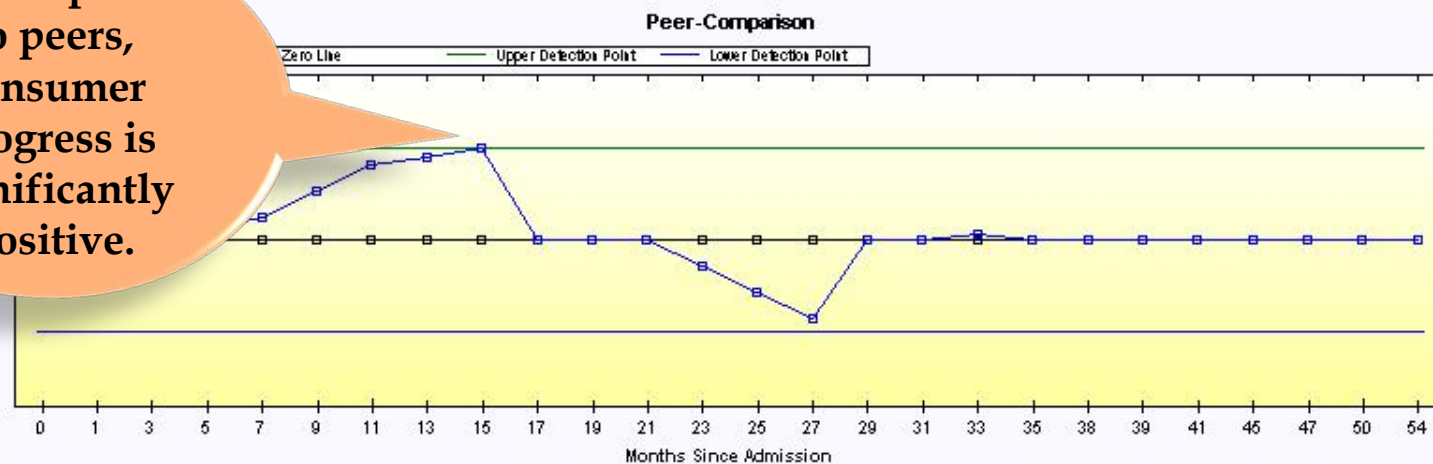


Consumer progress is significantly in the negative direction - investigate what is happening



# Change: Peer-Comparison

As compared to peers, consumer progress is significantly positive.



# Clinical Quality: Service Outliers

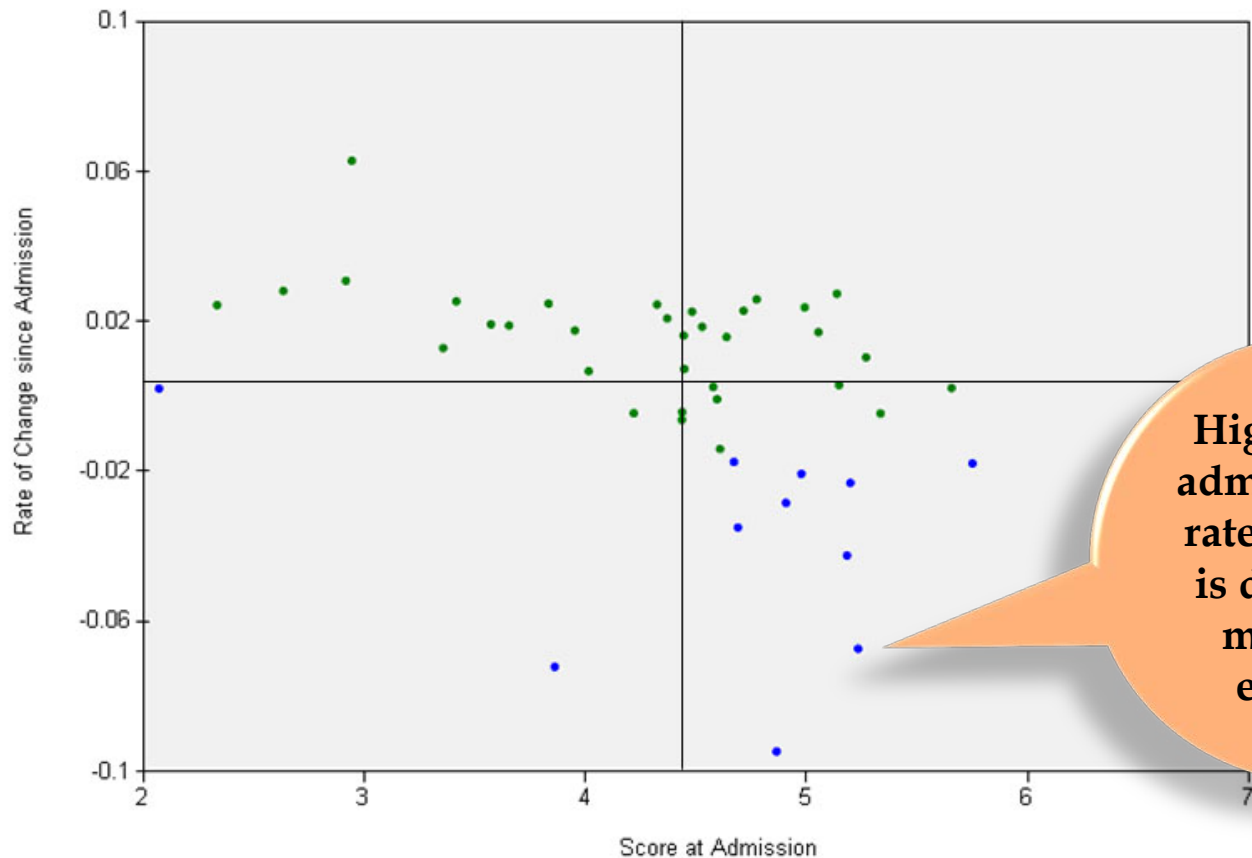


## Quality Control Change Chart

Clinician's Assessment

Your Team

Environmental Factors Chart



High score at admission, but rate of change is decreasing more than expected



# Utilization Management Review Form

Your System here

Consumer Name: XXXXXXXXXXXX XXXXXXXXXXXX

Consumer ID: XXXXXX

Clinician: XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX

Reviewer Name XXXXXXXXX

Team: XXX

Date of Review XX/XX/XXXXX

## Diagnosis

Axis I:

Axis II:

Axis III:

Axis IV:

Axis V:

SA DX:

Appears if there is a SA Dx

[View Current UM Tool Score](#)

[View S.A. Assessment](#)

[Display Progress Summaries](#)

[View Range of Notes](#)

## Progress Concern:

Progressing at a slower rate than expected

[View Individual Change chart](#)

[View Individual Profile Report](#)

## % of Expected Service Hours Delivered



	Service Hours this month	% Total Hours
Direct		
Indirect		
Total		

[View Service Hours Detail](#)

Is a Transition Plan indicated? Y ☐ N ☐ If Yes, There is a Plan Present? Y ☐ N ☐

What might be contributing to this being an outlier?

Suggestions for improving outcomes?

Additional comments or issues for follow up?

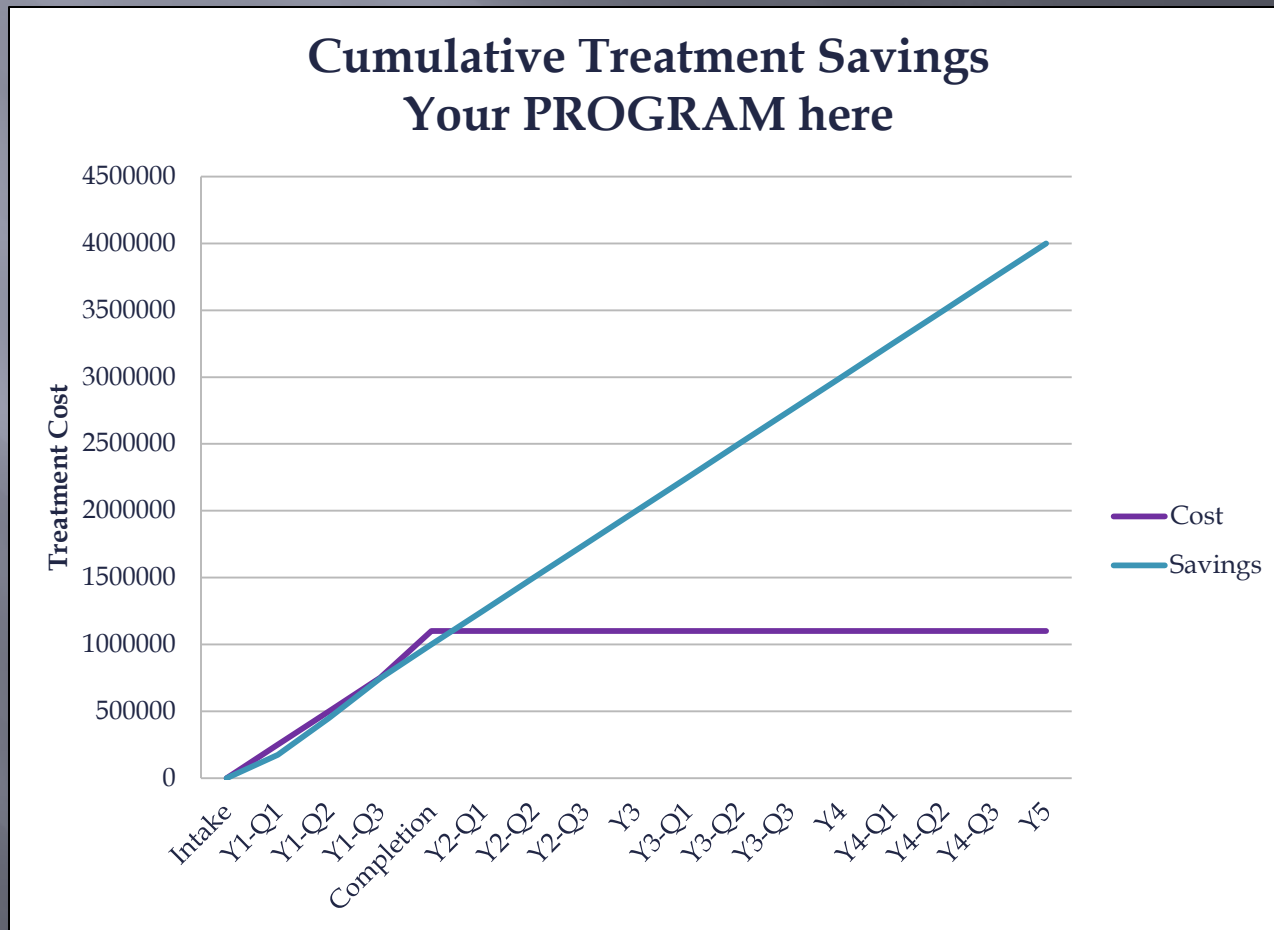
[Save](#)

Clicking here saves review responses and emails a copy of the completed review to the Program Manager



# Cost-Benefit Analysis

In addition to improving outcomes, are we getting a reasonable return on investment through the program or service?

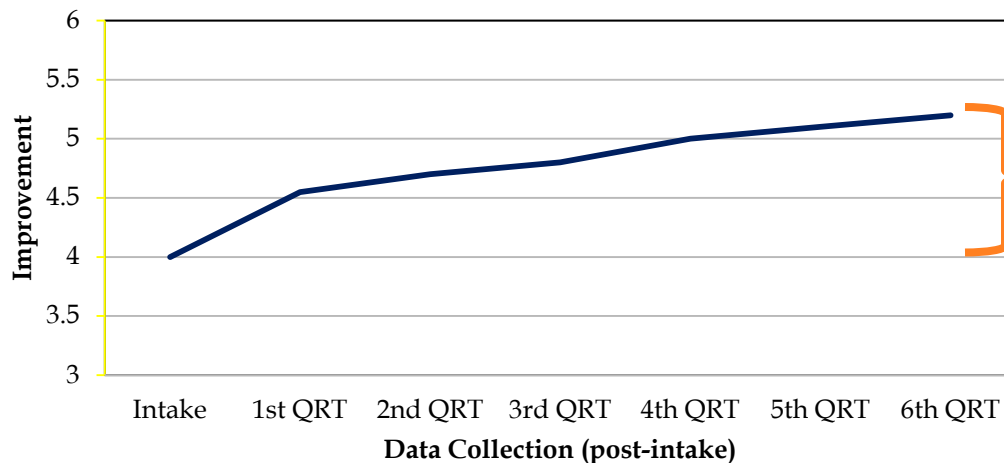


# Evaluation and Fidelity

Outcome measurement helps ensure that goals and service standards of a program are being met. Comparing outcomes with the fidelity level of the program helps:

- ▣ Determine the overall effectiveness of the program
- ▣ Identify areas where service improvements can be made.

**Average Improvement  
Environmental Factors**



To the left is a display of the average improvement of consumers in a particular program over a period of time.

Improvement of  
outcomes over  
18 months

# Effective Program Components

Many times we are not just interested in outcomes performance, but performance within specific indicators important to the program or treatment service.

- ▣ Evaluate performance within key outcomes (domains) to determine which aspects of the program work best
- ▣ At the right, Domain 1 is supported well through the program; but Domain 4 can show more improvement

Key Indicator	% at intake	% at Follow-up	Change
Domain 1	21%	67%	219%
Domain 2	80%	80%	0%
Domain 3	24%	24%	0%
Domain 4	94%	84%	-10%



## MHCD Midyear Improvement Report

Begin Date – End Date

### Service Efficiency

Admissions 2601 Discharges 2406 A/D Ratio: 11/10 Expected: >1 Total Consumers 8333

### Improvement Metrics

#### Consumer Service Transfers

\*Note: Decreased Service level refers to less intense services, whereas Increased Service level refers to more intense Services.

### Utilization Management Tool

#### Consumers Admitted Prior to Cut off Date

Decreased Service Level: 18%  
Sustained Service Level: 75%  
Increased Service Level: 7%

#### Consumers Admitted After Cutoff Date

Decreased Service Level: 11%  
Sustained Service Level: 82%  
Increased Service Level: 8%

### Changes in Resiliency and Recovery Supportive Environmental Factors

#### Clinicians Assessment Tool (CAT)

#### Consumers Admitted Prior to Cutoff Date

Increased Environmental Factors: 43%  
Sustained Environmental Factors: 18%  
Decreased Environmental Factors: 39%  
Average CAT Change: 0.04

#### Consumers Admitted After Cutoff Date

Increased Environmental Factors: 52%  
Sustained Environmental Factors: 19%  
Decreased Environmental actors: 30%  
Average CAT Change: 0.27

### Changes in Consumers' Perception of Their Own Improvement (Parents if child under 8)

#### Consumer Self –Assessment (CSA)

#### Consumers Admitted Prior to Cutoff Date

Increased Improvement: 41%  
Sustained Improvement: 23%  
Decreased Improvement: 37%  
Average CSA Change: 0.10

#### Consumers Admitted After Cutoff Date

Increased Improvement: 45%  
Sustained Improvement: 26%  
Decreased Improvement: 30%  
Average CSA Change: 0.23

# Impact for our Informed Practice

## Meeting our agency mission by ...

- ▣ Increasing number of consumers served
- ▣ Providing empirical evidence of our program quality and efficacy
- ▣ Meeting community needs and expectations for quality mental health services
- ▣ Leading the Mental Health field with education and tools employing outcomes in accountable clinical practice



# Continuous Quality Improvement

- ▣ Improved Program Outcomes
  - 80% reduction in homelessness
  - 67% reduction in substance abuse
- ▣ Greater Number of Consumers Being Served
  - ▣ 27% increased service capacity
  - ▣ 12% reduction intake no-show rates
- ▣ More Effective Resource Utilization
  - 80% reduction in detoxification facility admission days
  - 70% reduction in jail days
  - 40% decrease in psychiatric hospitalizations
- ▣ Greater Opportunity for Funding
  - 36 grants and 4.2 million in revenue
  - Current SAMHSA Grants: 7 Awarded and 1 Pending

For a copy of this presentation  
please go to our website at  
[www.outcomesmhcd.com](http://www.outcomesmhcd.com)

Cathie McLean

[Cathie.McLean@MHCD.org](mailto:Cathie.McLean@MHCD.org)

Antonio Olmos

[Antonio.Olmos@MHCD.org](mailto:Antonio.Olmos@MHCD.org)

CJ McKinney

[Christopher.McKinney@MHCD.org](mailto:Christopher.McKinney@MHCD.org)

For more information about Recovery @ MHCD:

<http://www.reachingrecovery.org/>