

# Grantee Presentation

## Strategic Use of Population-Based Data for Improving Health



# Health Connections

## Greater Nashua Mental Health Center

Cohort: I (Region 5)

Type of program: Patient Centered, Recovery-Oriented  
Community-Based Services

Primary care Model: FQHC Partnership



# Understanding Individual and Population Health

- ❑ Dynamic Relationship between Individual & Population Health
- ❑ Why are We Collecting the Data and How Will It Be Used?
- ❑ Individuals Are Not Just Numbers; Other Critical Health Determinants



# Staff Involved In Collecting and/or Utilizing Data

- Nurse Care Coordinator
- Nutritionist
- Diabetes/Chronic Disease Nurse
- Primary Care APRN
- Psychiatrists/ARPN's/Psychologist
- Therapists
- Case Managers
- Peer Specialists





# Where is the Data Stored?

Client data is stored in a secure SQL Server database that includes:

- TRAC demographic, NOMs, and physical health data
- Data from other assessments performed on PBHCI clients
- Detailed data on clients' services received and hospitalizations
- Data on clients' Axis I and II diagnoses and co-morbid physical health conditions (e.g. diabetes, hypertension, etc.)

This Clinical Repository allows detailed analysis of factors influencing clients' outcomes. It will allow management to maximize the effectiveness of client treatment in improving mental and physical health outcomes.



# When Is Data Collected?

- ❑ Data collected at many points of service
- ❑ TRAC and H indicators including blood work collected every 6 months
- ❑ Blood Pressure, Weight, etc collected every 3 months
- ❑ More frequent monitoring for clozapine and lithium clients
- ❑ Onsite lab allows for convenience & improved compliance

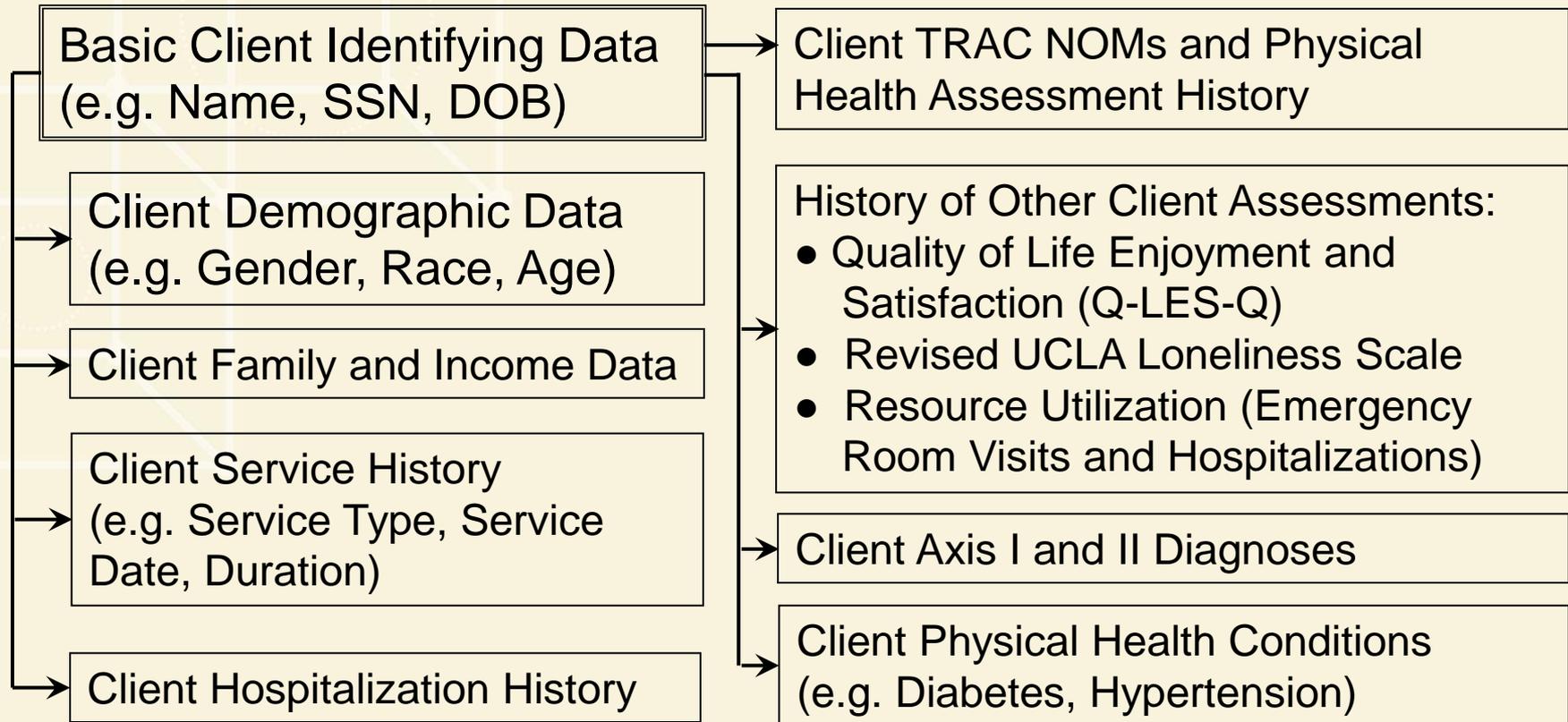


# Who Enters Data & How Is It Retrieved?

- ❑ Health data is entered into report card by Healthy Connections nurse
- ❑ Behavioral health scales are completed by client with assistance from peer administrative assistant
- ❑ NOM's, including H indicators, are entered into TRAC
- ❑ Report card data and behavioral health scales are entered into Data Repository
- ❑ Data is retrieved from Repository via SQL Server queries that can be customized to return either raw data or pre-processed data for reports



## F. What Kinds of Data do We Retrieve?



# Demographic Data

	<b>Count</b>	<b>Percent</b>
<b><u>Gender</u></b>		
Female	351	49.7%
Male	349	49.4%
Other	6	0.8%
<b><u>Hispanic/Latino</u></b>		
Yes	77	10.9%
No	624	88.4%
Refused	5	0.7%
<b><u>Race</u></b>		
Black/African-American	20	2.8%
Multi-Race	38	5.4%
White	587	83.1%
Other	13	1.8%
Missing Data	48	6.8%
<b><u>Age</u></b>		
18-25	76	10.8%
26-34	97	13.7%
35-44	149	21.1%
45-54	238	33.7%
55-64	128	18.1%
65+	17	2.4%
Missing Data	1	0.1%



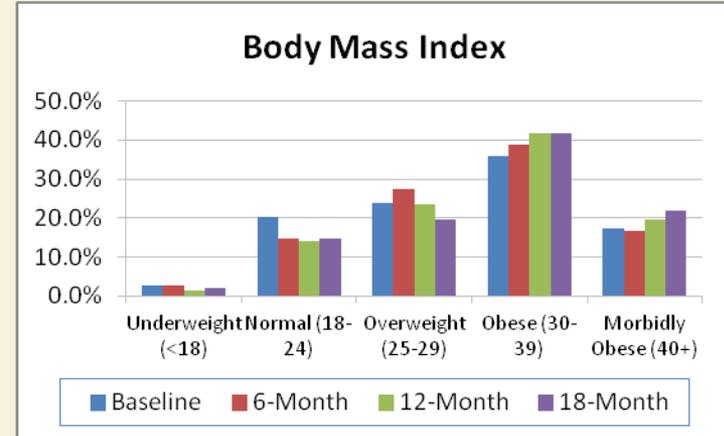
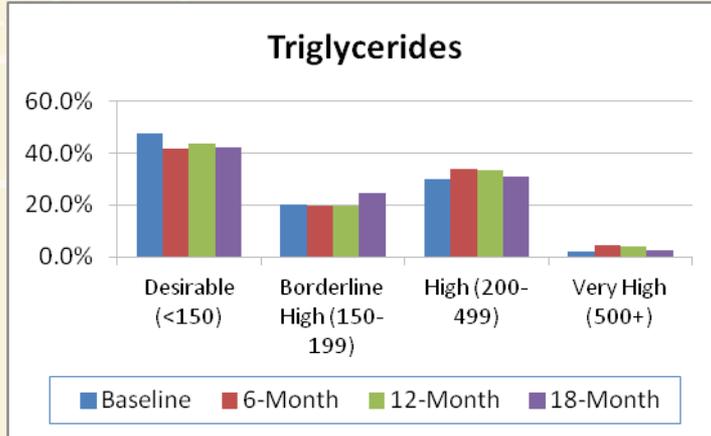
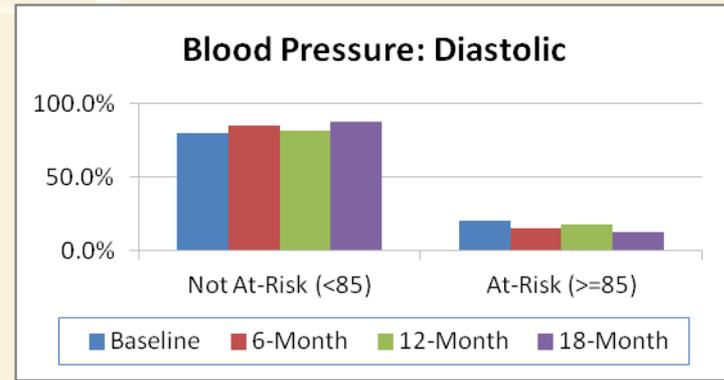
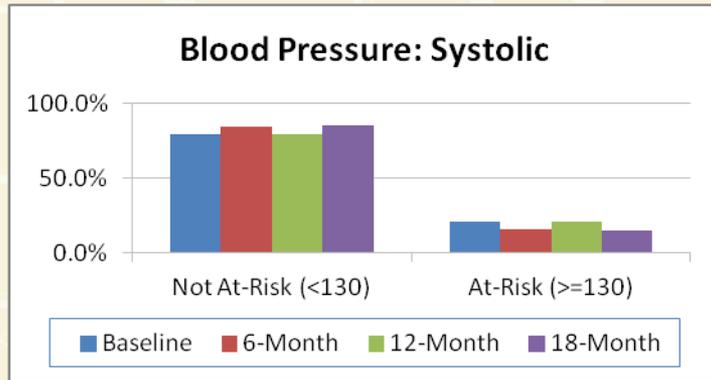
# Hospitalization Data

<u>Hospital Admissions Pre-Enrollment</u>		
Hospitalized Pre-Enrollment	200	29.2%
Min. Hospitalizations	1	
Max. Hospitalizations	65	
	3.02	
Median Hospitalizations	2	
Mode of Hospitalizations	1	
St. Dev. of Hospitalizations	5.45	
<u>Hospital Admissions During Enrollment</u>		
Hospitalized During Enrollment	68	9.9%
Min. Hospitalizations	1	
Max. Hospitalizations	11	
Mean Hospitalizations	1.82	
Median Hospitalizations	1	
Mode of Hospitalizations	1	
St. Dev. of Hospitalizations	1.66	
<u>Hospital Admissions Post-Discharge</u>		
PBHCI Discharges	277	
Hospitalized Post-Discharge	32	11.6%
Min. Hospitalizations	1	
Max. Hospitalizations	18	
Mean Hospitalizations	2.97	
Median Hospitalizations	2	
Mode of Hospitalizations	1	
St. Dev. of Hospitalizations	3.32	

<u>Days Hospitalized Pre-Enrollment</u>	
Min. Days Hospitalized	1
Max. Days Hospitalized	492
Mean Days Hospitalized	40.86
Median Days Hospitalized	17
Mode of Days Hospitalized	7
St. Dev. of Days Hospitalized	66.87
<u>Days Hospitalized During Enrollment</u>	
Min. Days Hospitalized	2
Max. Days Hospitalized	101
Mean Days Hospitalized	17.4
Median Days Hospitalized	9
Mode of Days Hospitalized	7
St. Dev. of Days Hospitalized	19.64
<u>Days Hospitalized Post-Discharge</u>	
Min. Days Hospitalized	1
Max. Days Hospitalized	344
Mean Days Hospitalized	43.5
Median Days Hospitalized	22
Mode of Days Hospitalized	9
St. Dev. of Days Hospitalized	69.1



# Physical Health Data



# How Is Data Used to Improve Outcomes?

- ❑ Wellness Programming
  - Decision to move to activities to Peer Support Center
  - Types of Activities, Workshops
- ❑ Development of individualized, integrated care plans
- ❑ System and program assessment; recognition of gaps
- ❑ Program sustainability/policy makers



# Population Data and Organizational Policy Decisions

- ❑ Population Data essential to achieving Triple Aim
  - Improving health of Defined Population
  - Enhancing Patient Care Experience
  - Controlling Per Capita Cost of Care
  
- ❑ Retooling and retaining workforce to recognize trauma and physical health comorbidities

