

Integrity Partners for Behavioral Health IPA
&
University at Buffalo

**Behavioral Health Data
Analytics Collaborative (BHDAC)
&
Telehealth Research Overview**



Presentation Overview

- Introductions
- Behavioral Health Data Analytics Collaborative (BHDAC) Overview
- BHDAC Telehealth Research
- BHDAC Potential
- BHDAC and Artificial Intelligence
- Questions



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Behavioral Health Data Analytics Collaborative

BHDAC

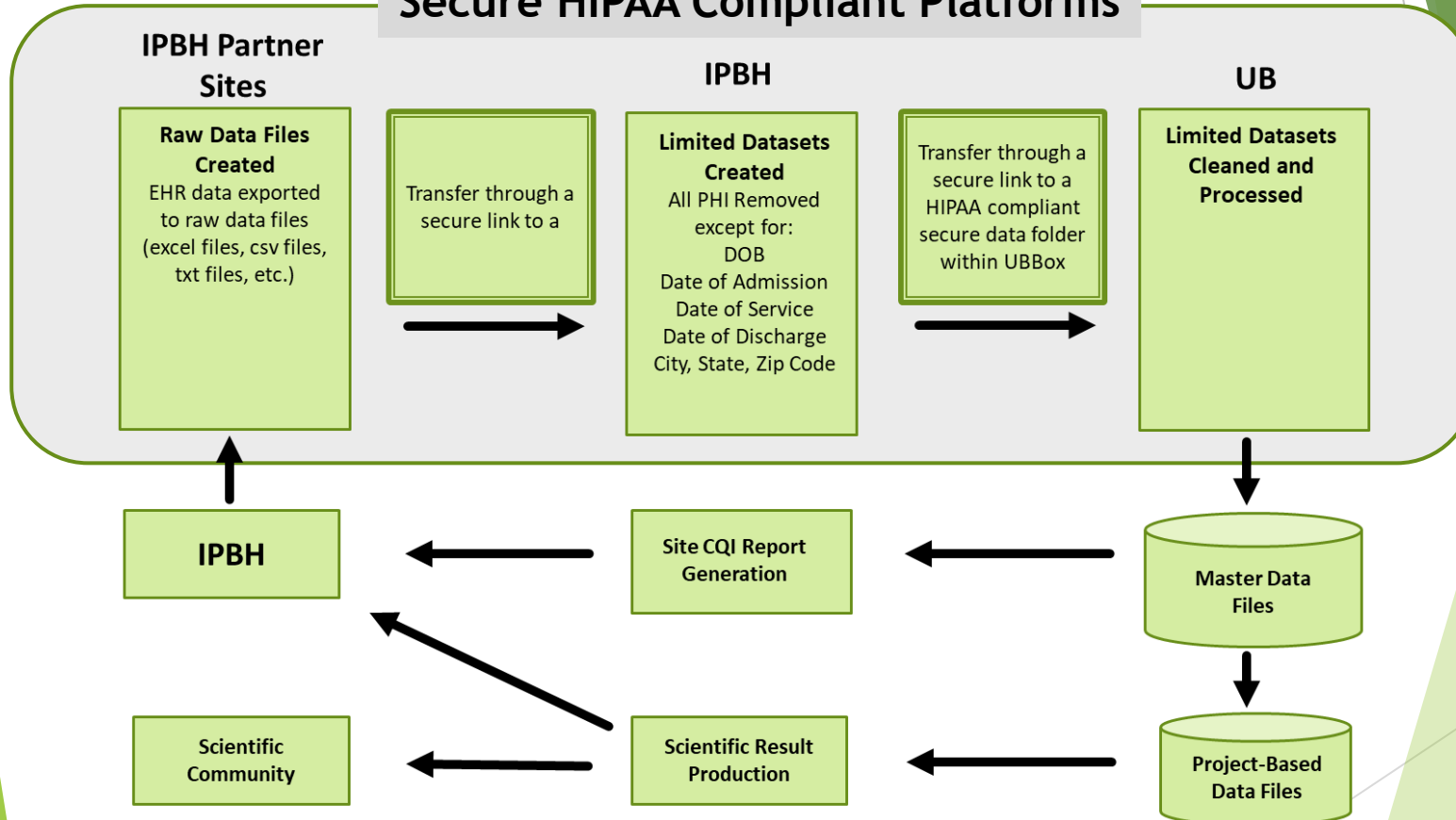


A community asset resulting from
a unique strategic partnership in **New York State**

Pathway of Data Collection from Partners to Data Warehouse

University at Buffalo, Institutional Review Board Approved

Secure HIPAA Compliant Platforms



Recipient:

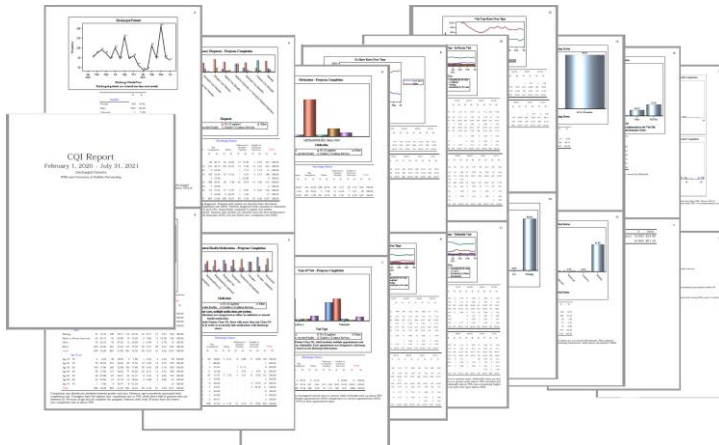
Excellence in Research, Community Level Award
Buffalo Center for Social Research

Benefits of Behavioral Health Data Analytics Collaborative (BHDAC) Products

BHDAC Products

Generate 3 levels of CQI reports with actionable data

1. Partner Level CQI Report (Quarterly)
2. Network Level CQI Report (Semi-Annual)
3. State Level CQI Report (Semi-Annual)

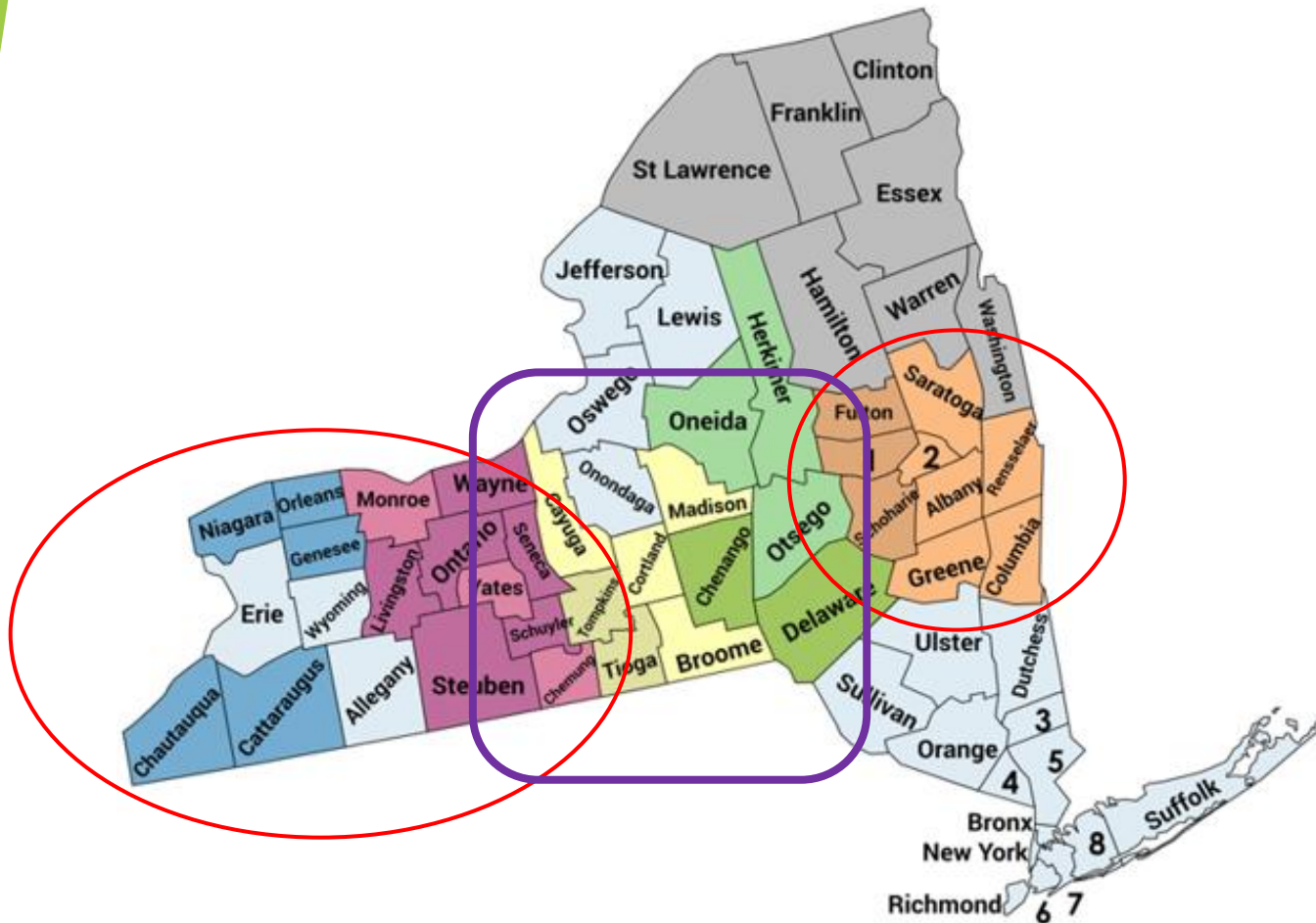


BHDAC Research

Create Research-based documents

1. Practice Briefs
2. Research Briefs
3. Peer-Reviewed Research Articles
4. White Papers

Current and Future Counties Covered by BHDAC



- Current Partners
- Possible Future Partners

Behavioral Health Data Analytics Collaborative (BHDAC)

Telehealth Research

Why Analyze Telehealth?

- Telehealth is becoming a significant modality to provide mental health treatment.

Is It Effective?

- Is the use of telehealth improving success rates for clients and thereby reducing costs?

What Does the Data Say?

- Dr. Braden Linn will review.

Benefits of Behavioral Health Data Analytics Collaborative (BHDAC) Telehealth Research

Telehealth Research

- This analysis looked at the relationship of telehealth usage to no-show rates in partner agencies
- More than 30,000 clients with 500,000 appointment records were part of the data
- Data were drawn from 2020-2022

What do we mean by no-show?

No Show Includes

- Client does not present for session
- Data are from an EHR—subject to coder error

Does NOT Include

- Provider cancellations/reschedules
- Clients arriving late
- Client reschedules

Research Questions Key Scientific Findings

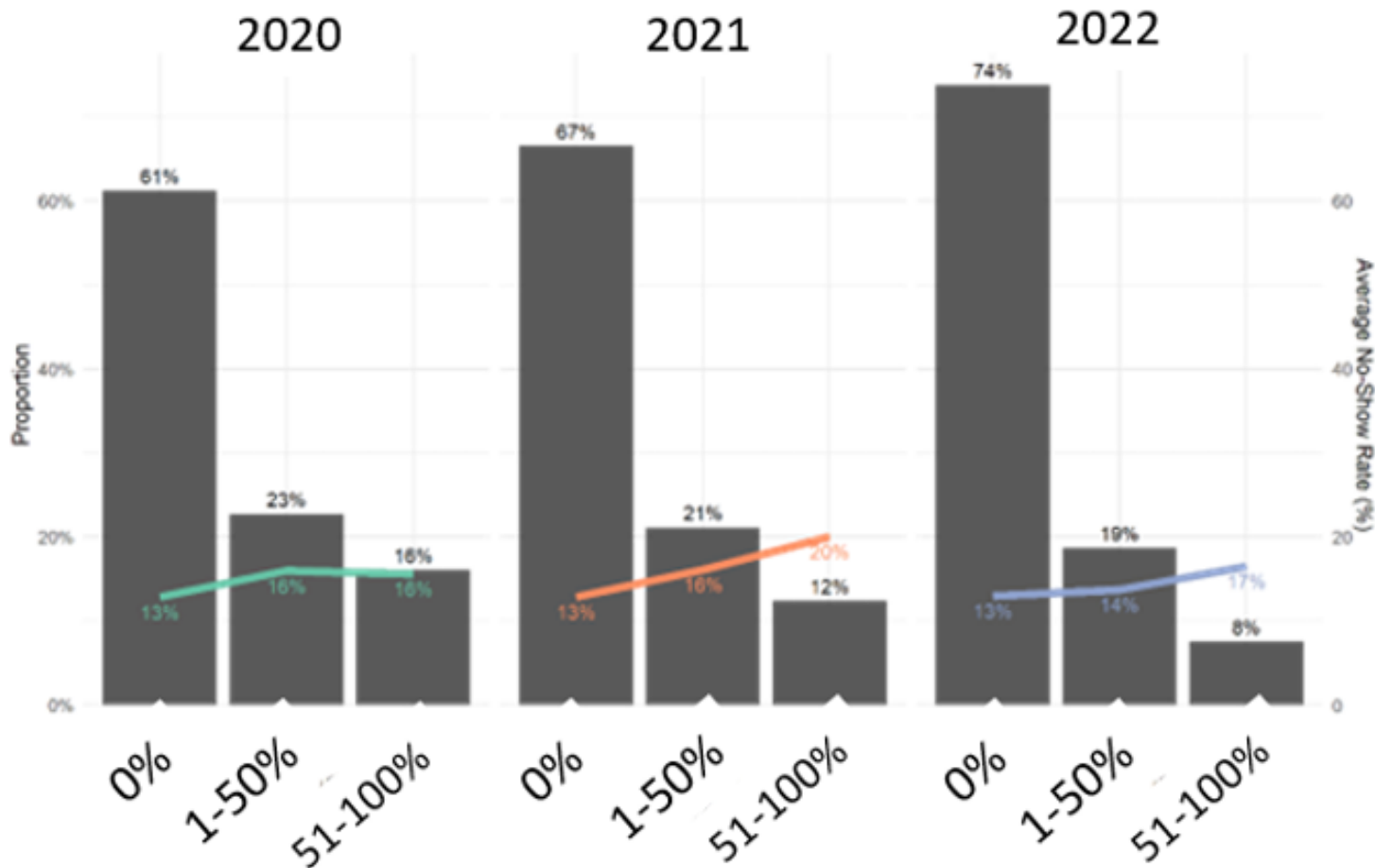
Research Questions

- Do clients with high telehealth usage have lower no-show rates compared with clients who use no (or occasional) telehealth?

Research Findings

- Clients who used more telehealth had more no-shows after accounting for the effects of COVID
- The results remained even after conducting a *sensitivity analysis*, suggesting a robust finding

Telehealth usage and no-show rate by year



Percentage of Client Telehealth Visits

Practice Recommendations Based on Findings

- In-person service delivery as the standard of care
- Telehealth visits should be reserved for special circumstances and occasional visits to prevent disruptions that could cause premature termination or delay of care
 - Example: client reports suicidal ideation and requires assessment but is impaired and cannot drive

Ongoing Analysis

Next Steps

- We will evaluate any new strategies that we recommend
- Explore why high telehealth/high no-shows
 - Are there differences in severity of presenting problem?
 - Are there differences in therapeutic alliance?
- Remember that findings are nuanced and should be confirmed by ongoing research

BHDAC Potential

- Dr. Greg Wilding will highlight the potential of this data warehouse project.

BHDAC Potential

BHDAC Potential

- Infinite number of potential analysis with available data to examine urgent questions to ultimately improve client outcomes and decrease system costs
- Ability to add other system's data (e.g. education, criminal justice, healthcare) into the data warehouse to examine critical questions that impact clients, systems, and policies.
- Leverage university partners and resources to realize full potential
- **UB Clinical and Translational Science Institute**
- **UB Institute for Artificial Intelligence and Data Science**
 - Extracting analyzable variables from unstructured clinical notes, maintaining patient privacy
 - Prospective AI models can assist with data-driven clinical decision making, early risk detection, and prediction of treatment outcomes

Behavioral Health Data Analytics Collaborative BHDAC

Current Growth Goals

- ✓ Expand our comprehensive data warehouse for scientific analysis
- ✓ Help partners adopt a standardized intake, treatment, and discharge data-gathering process
- ✓ Continue to grow the number of Providers in the BHDAC
- ✓ Leverage and grow the success stories and the reputation of the program

Thank you! *Questions*