Behavioral Health Data Analytics Collaborative (BHDAC)
Data-Directed Practice Briefs
Mental Health Facilities November 2022

Introduction
- This analysis looked at demographic factors affecting program completion rates.
- 4 mental health facilities included in this analysis.
- The sample population includes those who discharged between 2/1/2020 – 2/28/2022.

Results
- Those age 70-79 have a high completion rate.
- Profiles for the highest program completion: Age 70-79, White Race, Male, Not Homeless
- There are items not included in this analysis due to non-collection or a high number of missing values (education, transportation, work status, and marital status).

Definitions
- *Odds Ratio and Point Estimate* - Tells us the strength of association between two events. In this case, program completion vs. all other discharge reasons. For example, an odds ratio of 3.0 for Age 70-79 vs 40-49 means, the odds of program completion in the 70-79 age category is 3 times the odds of program completion in the 40-49 age category.
- *Significant Results* - Statistical significance helps quantify whether a result is likely due to chance or to some factor of interest. When a finding is significant, it simply means you can feel confident that's it real, not that you just got lucky (or unlucky) in choosing the sample.

Implications for Practice
- Patients aged 20-29 are less likely to successfully complete treatment. Therefore, special attention is needed to ensure this group successfully completes treatment.
- We can say the same thing for Black or African American patients and female patients. Special attention is required to ensure patients from these populations successfully complete treatment. Additional analyses or a special study may help identify what special attention looks like.
- Reducing the amount of missing data will increase the quality of the analyses and the utility of the findings.

N=2259 (2259/4814=46.9% of data used)

Odds Ratio Estimates		
Effect	**Point Estimate**	
Age		*Compared to Age 40-49*
Under 10 vs 40 – 49	0.722	Lower Completion Rate
10 - 19 vs 40 – 49	1.371	Higher Completion Rate
20 - 29 vs 40 – 49	0.626	Lower Completion Rate
30 - 39 vs 40 – 49	0.839	Lower Completion Rate
50 - 59 vs 40 – 49	1.086	Higher Completion Rate
60 - 69 vs 40 – 49	1.924	Higher Completion Rate
70 - 79 vs 40 – 49	3.032	Higher Completion Rate
79+ vs 40 – 49	0.986	Lower Completion Rate
Race		*Compared to White*
Black or African American vs White	0.355	Lower Completion Rate
Other vs White	0.697	Lower Completion Rate
Gender		*Compared to Males*
Female vs Male	0.781	Lower Completion Rate
Homeless Status		*Compared to Not Homeless*
Homeless vs Not Homeless	0.759	Lower Completion Rate

*Significant results are highlighted in yellow

Missing Data

Variable	Observations	Missing	Total	% Missing
Education	0	4814	4814	100.00%
Transportation	0	4814	4814	100.00%
Work Status	0	4814	4814	100.00%
Marital Status	1586	3228	4814	67.05%
Race	2295	2519	4814	52.33%
Discharge Status	4553	261	4814	5.42%
Gender	4810	4	4814	0.08%
Homeless Status	4814	0	4814	0.00%
Age	4814	0	4814	0.00%