

Behavioral Health Data Analytics Collaborative (BHDAC)

Data-Directed Practice Briefs

Substance Use Disorder Facilities, November 2022

Introduction

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

Results

- Those age 60-69 have a high completion rate.
- Profiles for the highest program completion: Age 60-69, Other Race, Female, 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 1.4 for Age 50-59 vs 40-49 means, the odds of program completion in the 50-59 age category is 1.4 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

- Usually, analyses try to identify factors that can be modified with clinical attention. However, demographic factors cannot be modified with clinical attention. Therefore, these analyses tell us which patients may require additional attention.
- Patients aged 10-19 require additional attention because the point estimate for successful completion is so low.

N=1039 (1039/5673=18.3% of data used)

Odds Ratio Estimates		
Effect	Point Estimate	
Age		Compared to Age 40-49
10 - 19 vs 40 - 49	0.127	Lower Completion Rate
20 - 29 vs 40 - 49	1.067	Higher Completion Rate
30 - 39 vs 40 - 49	0.951	Lower Completion Rate
50 - 59 vs 40 - 49	1.413	Higher Completion Rate
60 - 69 vs 40 - 49	2.008	Higher Completion Rate
70 - 79 vs 40 - 49	<0.001	Lower Completion Rate
Race		Compared to White
Black or African American vs White	0.983	Lower Completion Rate
Other vs White	1.374	Higher Completion Rate
Gender		Compared to Males
Female vs Male	1.251	Higher Completion Rate
Homeless Status		Compared to Not Homeless
Homeless vs Not Homeless	0.239	Lower Completion Rate

*Significant results are highlighted in yellow

Missing Data

Variable	Observations	Missing	Total	% Missing
Education	0	5673	5673	100.00%
Transportation	0	5673	5673	100.00%
Work Status	0	5673	5673	100.00%
Race	1040	4633	5673	81.67%
Marital Status	1070	4603	5673	81.14%
Discharge Status	4048	1625	5673	28.64%
Homeless Status	4047	1626	5673	28.66%
Gender	5671	2	5673	0.04%
Age	5673	0	5673	0.00%