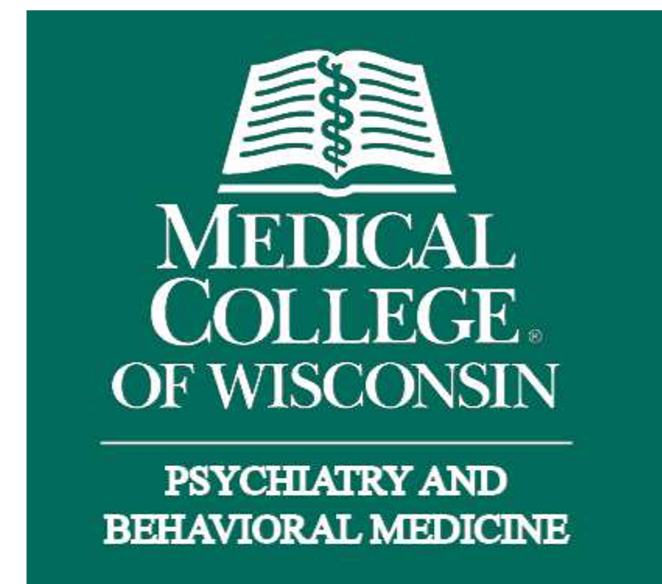


Collaborative Care in Acute Settings: An Integrated Approach to Psychiatric Care Within an Academic Emergency Department

Julie Ruth Owen, MD, MBA (Assistant Professor, Psychiatry & Emergency Medicine) | Sarah Slocum, MD (Assistant Professor, Psychiatry & Emergency Medicine) | John Ray, MD, MBA (Assistant Professor, Emergency Medicine) | Amy Zosel, MD, MSCS (Associate Professor, Emergency Medicine) | Jennifer Hernandez-Meier, PhD, MSW (Assistant Professor, Emergency Medicine) | Ian B.K. Martin, MD, MBA (Professor, Emergency Medicine & Internal Medicine)



Introduction

- The proportion of Emergency Department (ED) visits primarily involving psychiatric concerns has been **steadily rising**¹⁻²
- 2010-2014 data from the National Emergency Department Sample identified mental health presentations (including substance use) as the **second-most frequent ED presentation**, with abdominal pain ranking as the most frequent³
- Challenges to caring for patients with primary psychiatric concerns in EDs include:
 - Prolonged ED lengths of stay (LOS)**⁴
 - Resulting **boarding and overcrowding**⁵
 - Increased **restraint use**⁶
 - Negative **financial impact**⁷
 - Safety** implications for patients and staff⁵

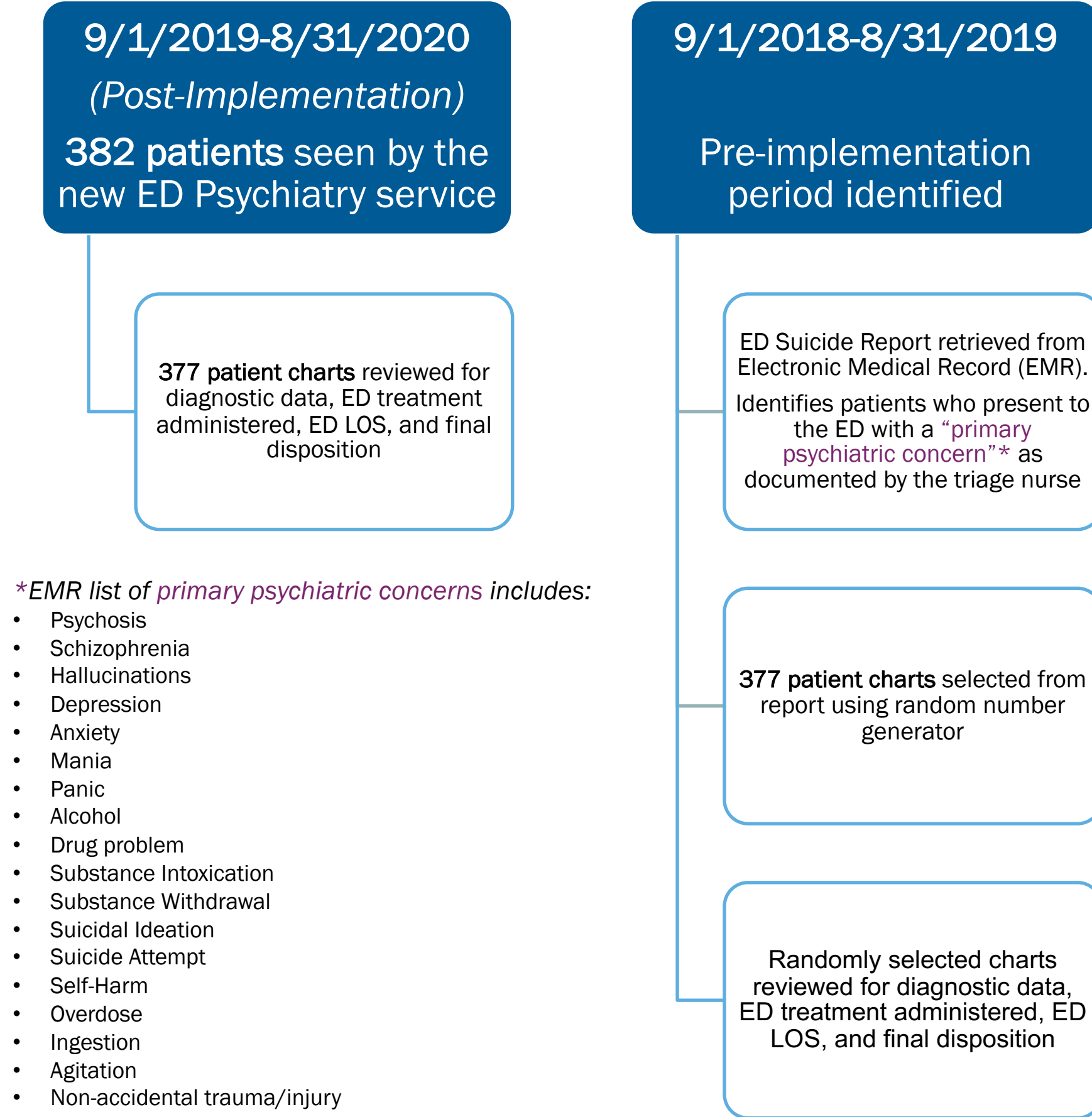
Unique and notable features of our innovative ED-based Psychiatry service line:

- Joint administration** by academic departments of Emergency Medicine and Psychiatry;
- The medical and psychiatric evaluations of patients presenting to the ED with psychiatric concerns are conducted **concurrently rather than consecutively** for optimal efficiency and collaboration.

Many EDs have limited access to psychiatric expertise.



Methods



Data from both groups compared using basic summary statistics.

Data for 12 months was analyzed in aggregate; data was also analyzed in two 6-month periods to account for COVID-19 as a possible confounder. 12-month data analysis presented on this poster.

Results

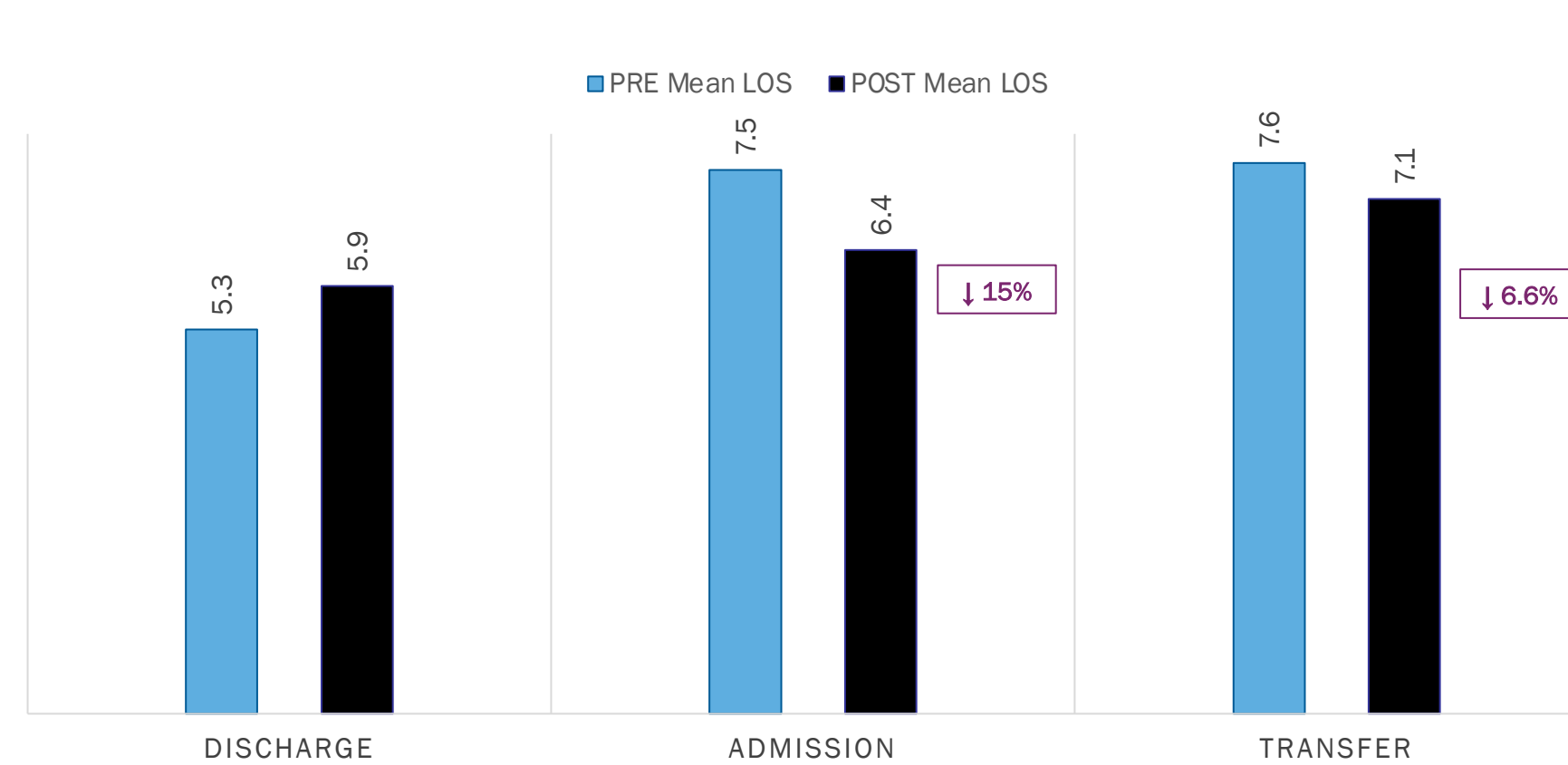


Fig. 1. ED LOS (hours)

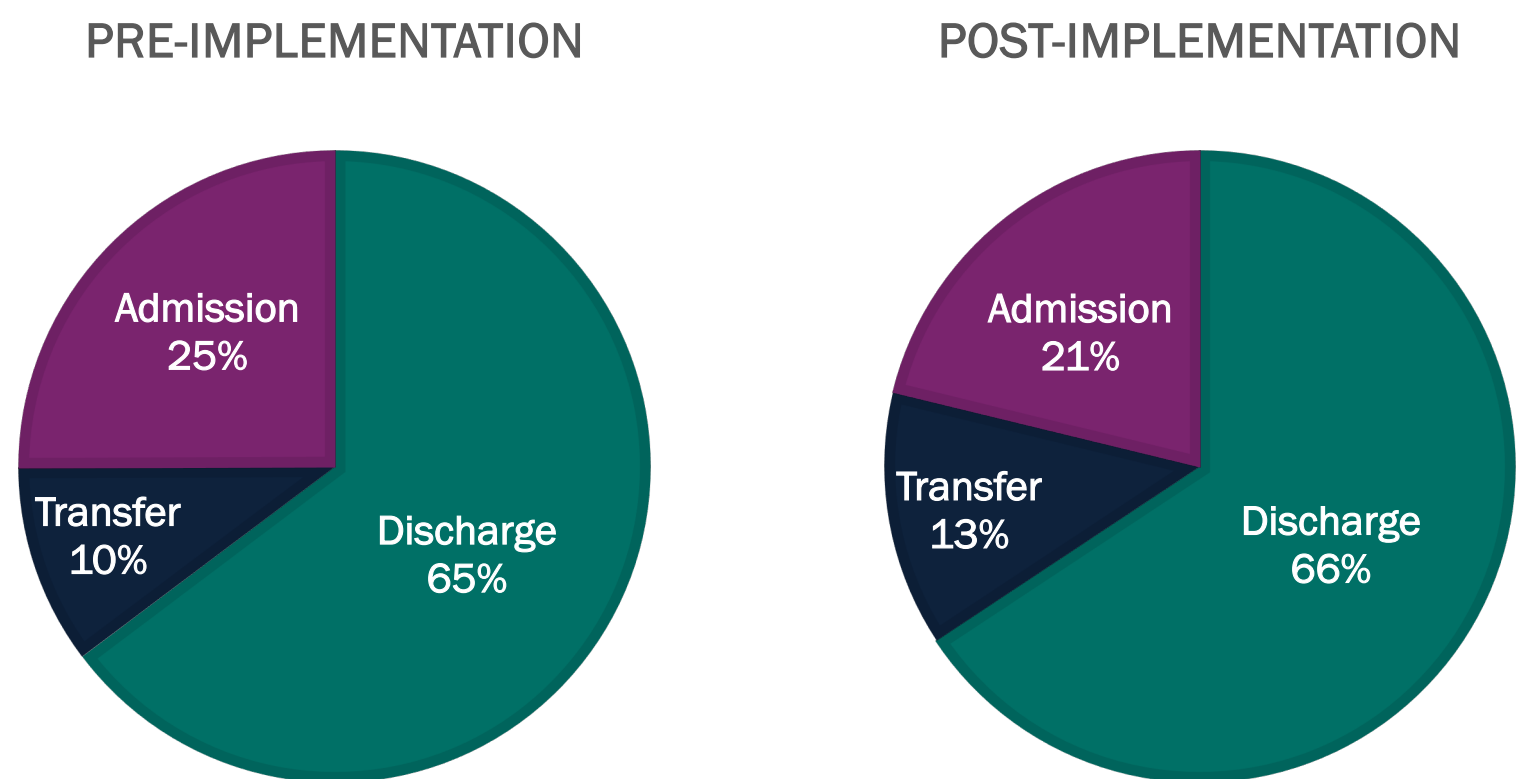


Fig. 2. Disposition*

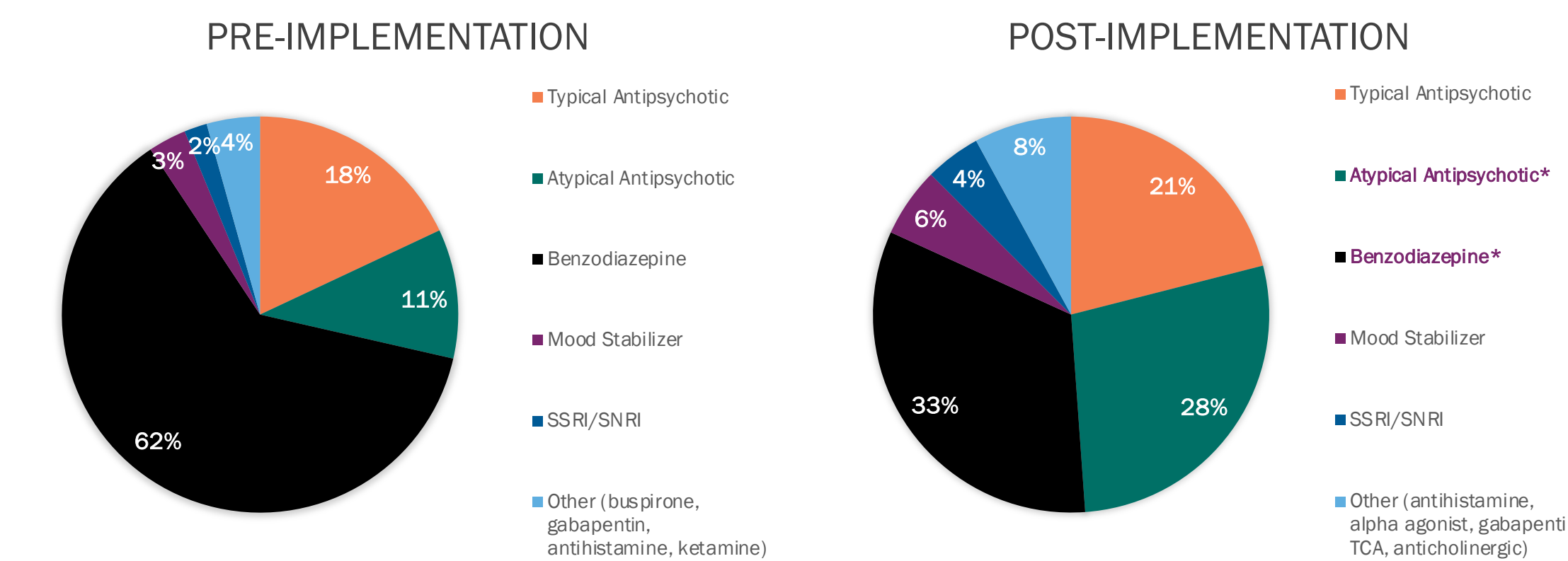


Fig. 3. Medication Classes (ED Rx)*

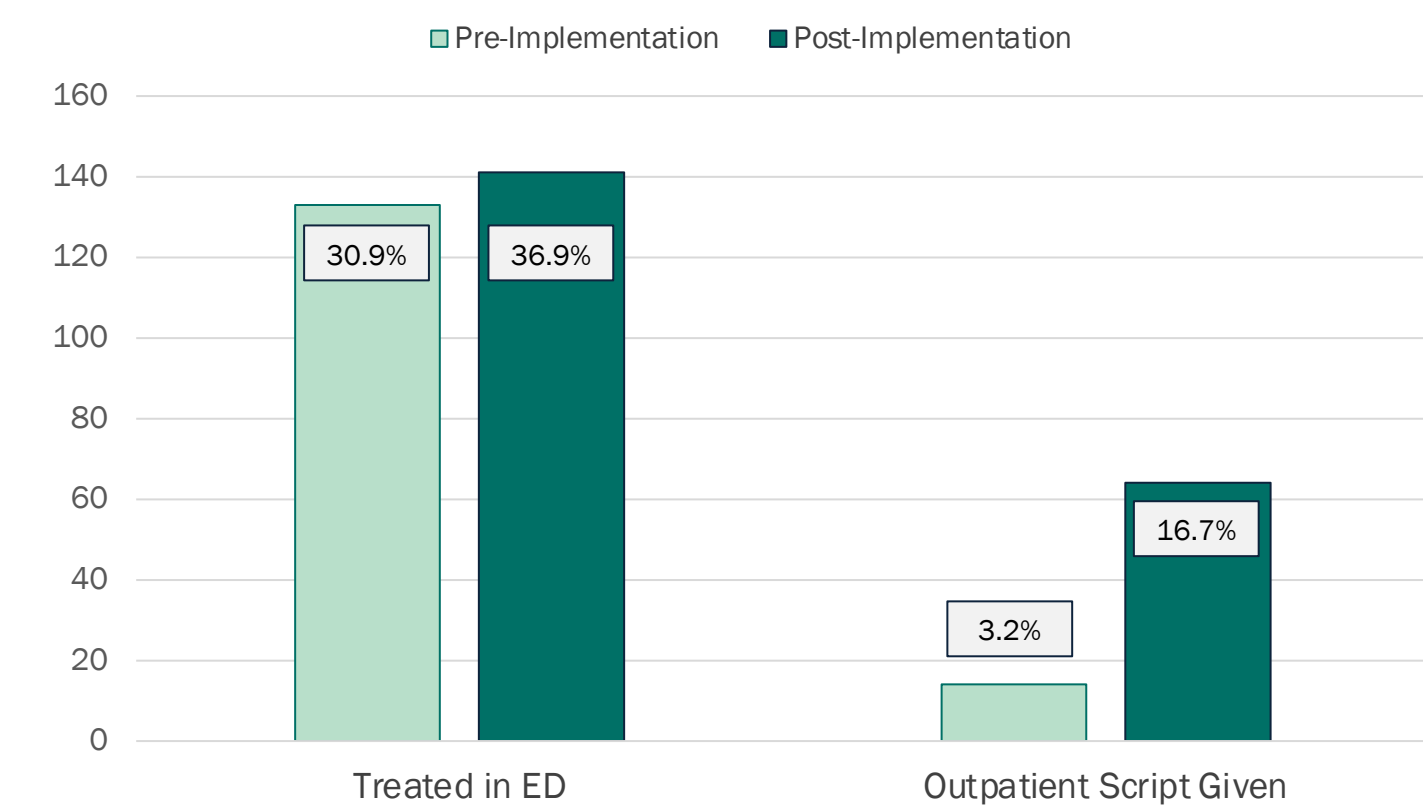


Fig. 4. Treatment Provided

*statistically significant result

Discussion

Data analysis of pre- and post-implementation patient group metrics suggests **program efficacy** and **overall value** to the health system via the following:

- **Shorter ED LOS** for patients presenting with psychiatric concerns;
- **Improved diagnostic accuracy** for patients presenting with psychiatric concerns;
- **Increased provision of pharmacological treatment interventions** in the ED setting and upon discharge; and
- **More resource-appropriate disposition** of patients presenting with psychiatric concerns.

Future Directions:

- Review data set collected over 2 years post-program launch (n = 1373).
- De-duplicate data set to eliminate potential confounding.
- Collaborate with faculty biostatistician team for further statistical analysis.
- Collect and analyze additional metrics: restraint use (frequency and duration), use of 1:1 sitters, patient insurance status (to inform potential financial impact), additional demographic data (age, race, ethnicity, gender), time of presentation.

Our jointly administered program that embeds CL Psychiatrists into our academic ED care team has improved and enhanced the care of ED patients presenting with psychiatric concerns as well as operational efficiencies within the department.



jowen@mcw.edu