

NM-Central DuPage Hospital Behavioral Health Services Inpatient Admissions Revamp

Executive Sponsor
Janet Davis

Process Owner
Rick Gabriel and Dan Doebler

Improvement Leader
Juliana Thomas

Team Members: Jane Ozinga, Crezel Adaya, Mike Tinken, Karen Olvera

Background

DEFINE PHASE

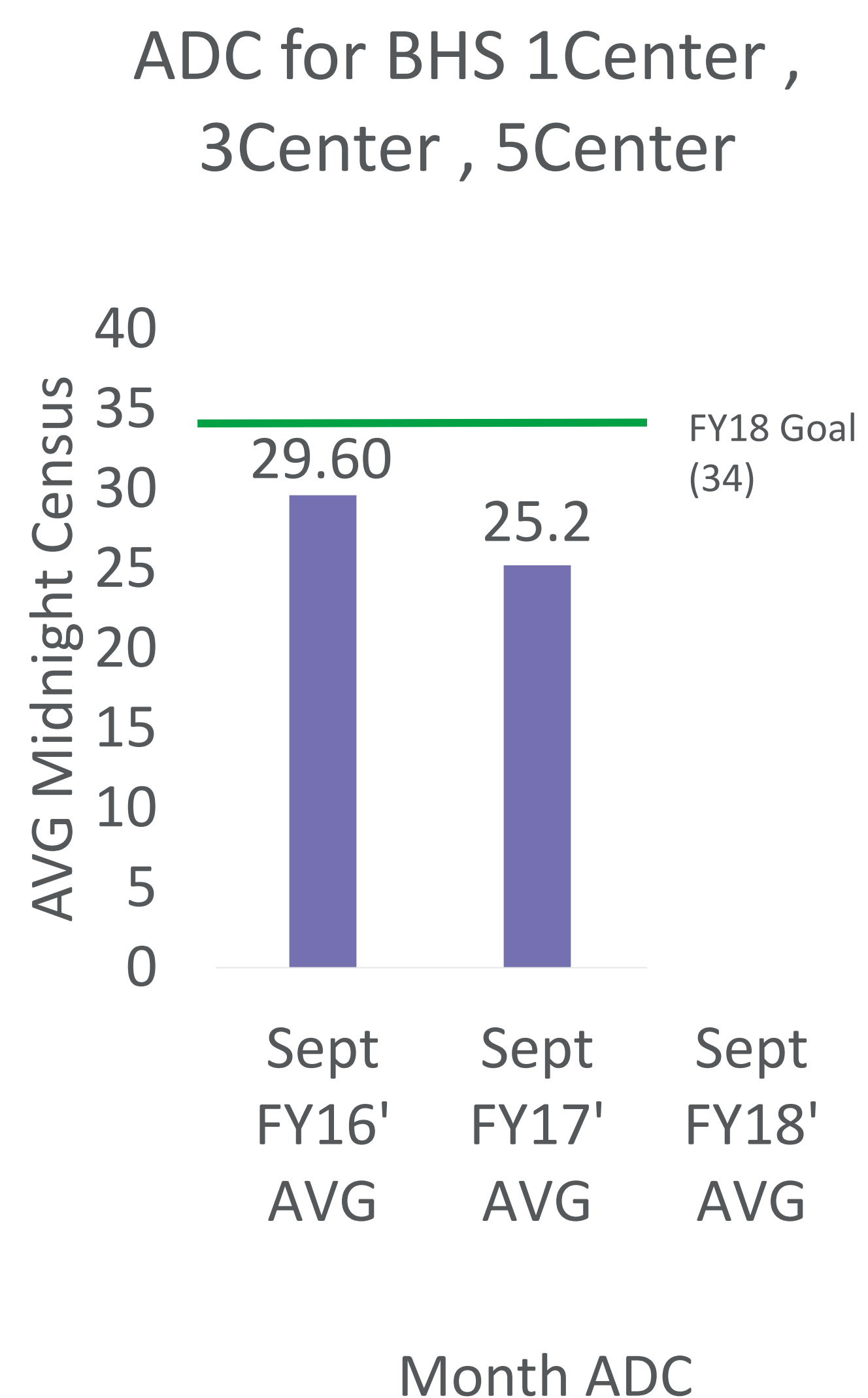
Problem: In 2015, Central DuPage Hospital increased its inpatient psychiatric bed capacity from 18-48 beds. The 30 bed expansion created workflow gaps and throughput problems which led to the department not meeting budgeted census goals of 34 patients/day. Community demand for services was not being met and operating margins were not acceptable.

Scope:

- All Inpatient Psych units (total of 48 beds) including the pediatric department
- Patients admitted from NM and non-NM hospitals and emergency departments, MD offices, and other facilities
 - Team Members: ED Case Therapists (consult team), ED Consult Team Director, IP Psych RN's, Clinical Shift Coordinators, IP Psych RN Manager, VP of Operations

Goal: Increasing average midnight census for inpatient behavioral health by 15% (baseline is 25) by the end of FY18 (Q1).

Figure – 1 Baseline Census for IP Psych



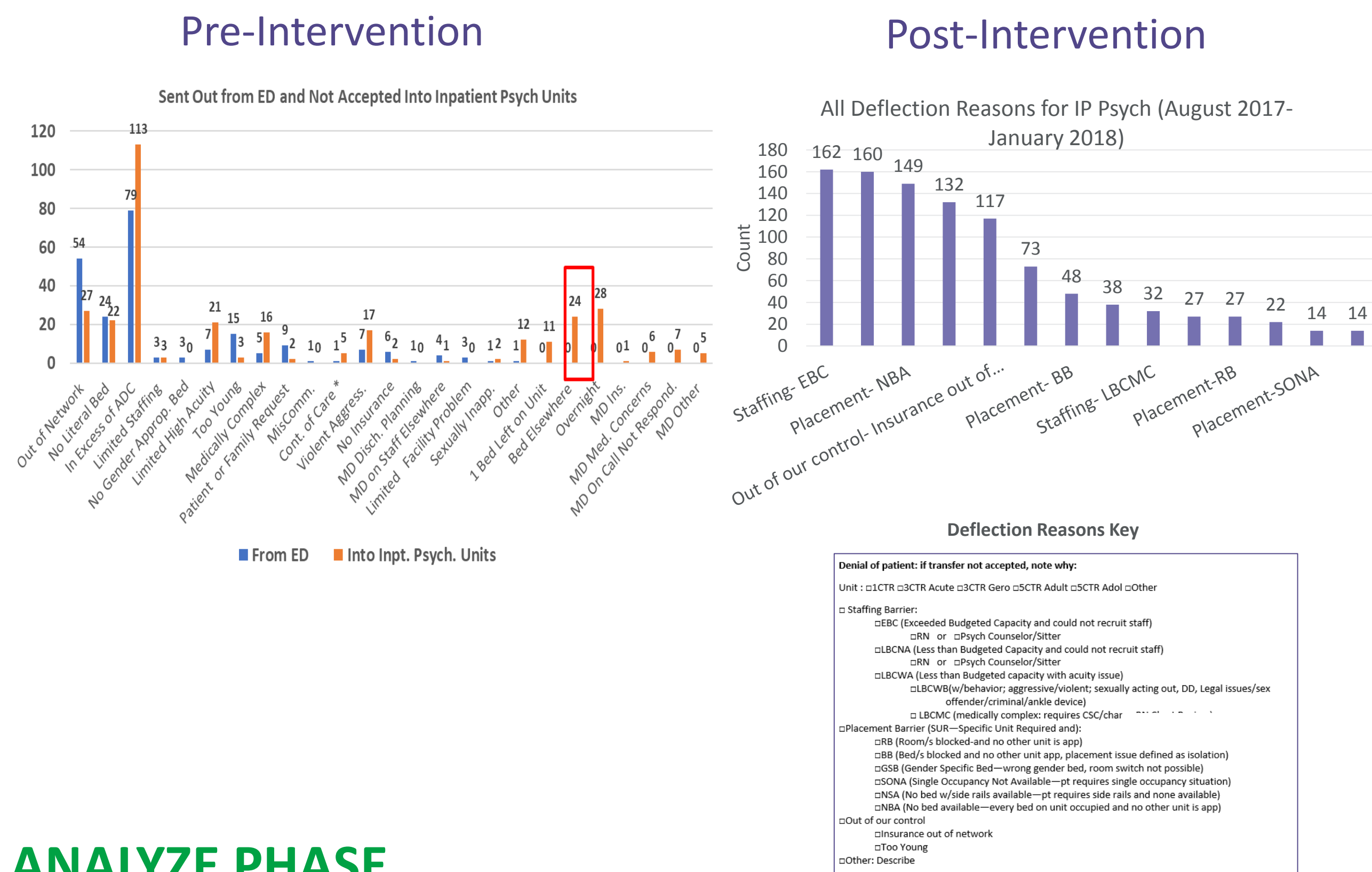
Methods

MEASURE PHASE

Current State and Baseline Metrics

- Completion of a Current State Process Map to identify opportunities with development of an "ideal state" map
- Reviewed Voice of the Customer from the ED Case therapists updated "ideal state" workflow
- Created new categories to collect data on admission deflection reasons.
 - Impact: Went from 25 categories to 14 categories with standard definitions for the team to categorize, and fewer buckets to choose from resulting in less variability of responses

Figures – 2 Previous and New Data Tracking Categories for Deflection Reasons



ANALYZE PHASE

Root Cause Methodology: About 50% of the deflections related to Staffing EBC (Exceeded budgeted capacity of 36 and could not recruit staff)

- Voice of the Customer and Process Mapping identified components related to the Staffing EBC deflection category:
 - Need for standard admission guidelines for Case Therapy team
 - Expanding bed access (admission responsibilities) to more individuals (cross training)
 - Need for more FTE support, specifically overnight for ED Consult Team
 - Need for revamp in RN staffing model

Metrics

Outcome Metrics: Midnight Average Daily Census for Inpatient Psych Units

Process Metrics: 100% ED consult team and IP Psych Clinical Shift Coordinators trained on new admission guidelines and updated communication workflow

Bed Request Hurdles for Admission

When the Stars Align

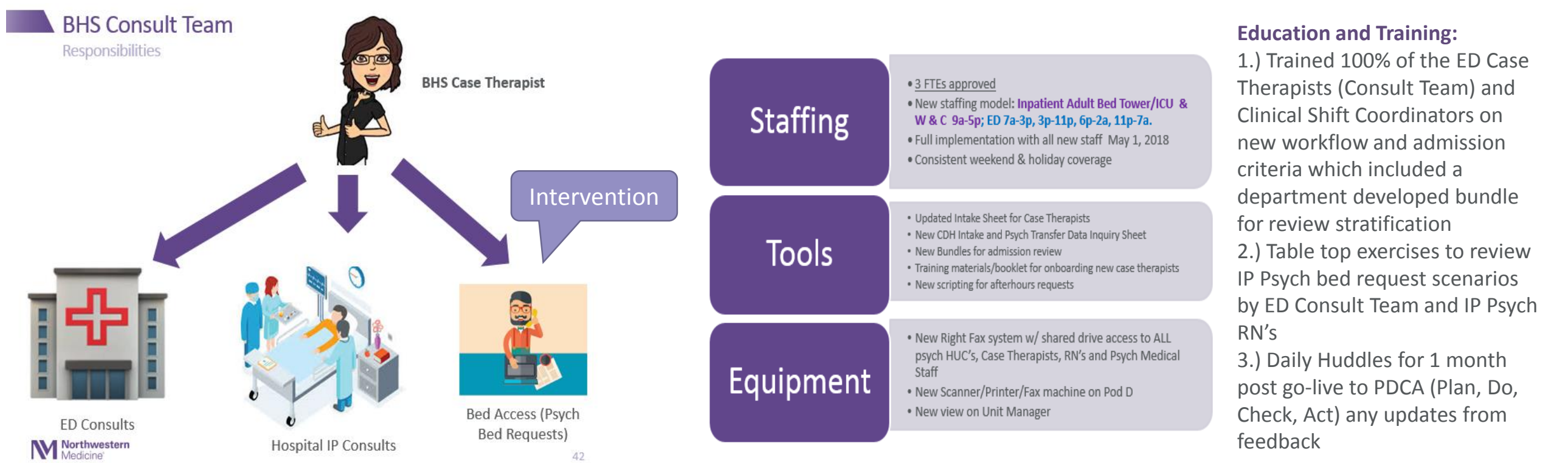
Bed Requests Hurdles for Acceptance

- Does requesting facility have a Licensed LSW to complete Columbia Scale? (Phase 1)
- Do we have staffing available to complete Columbia Scale? (Phase 2)
- Do we have an appropriate bed? (Phase 2)
- Do we have appropriate milieu for that patient room? (double occupancy rooms)
- Do we have an appropriate RN/Sitter staffing to accept patient?
- Has insurance been precertified/auth-ed?
- Physician accepted in timely manner?

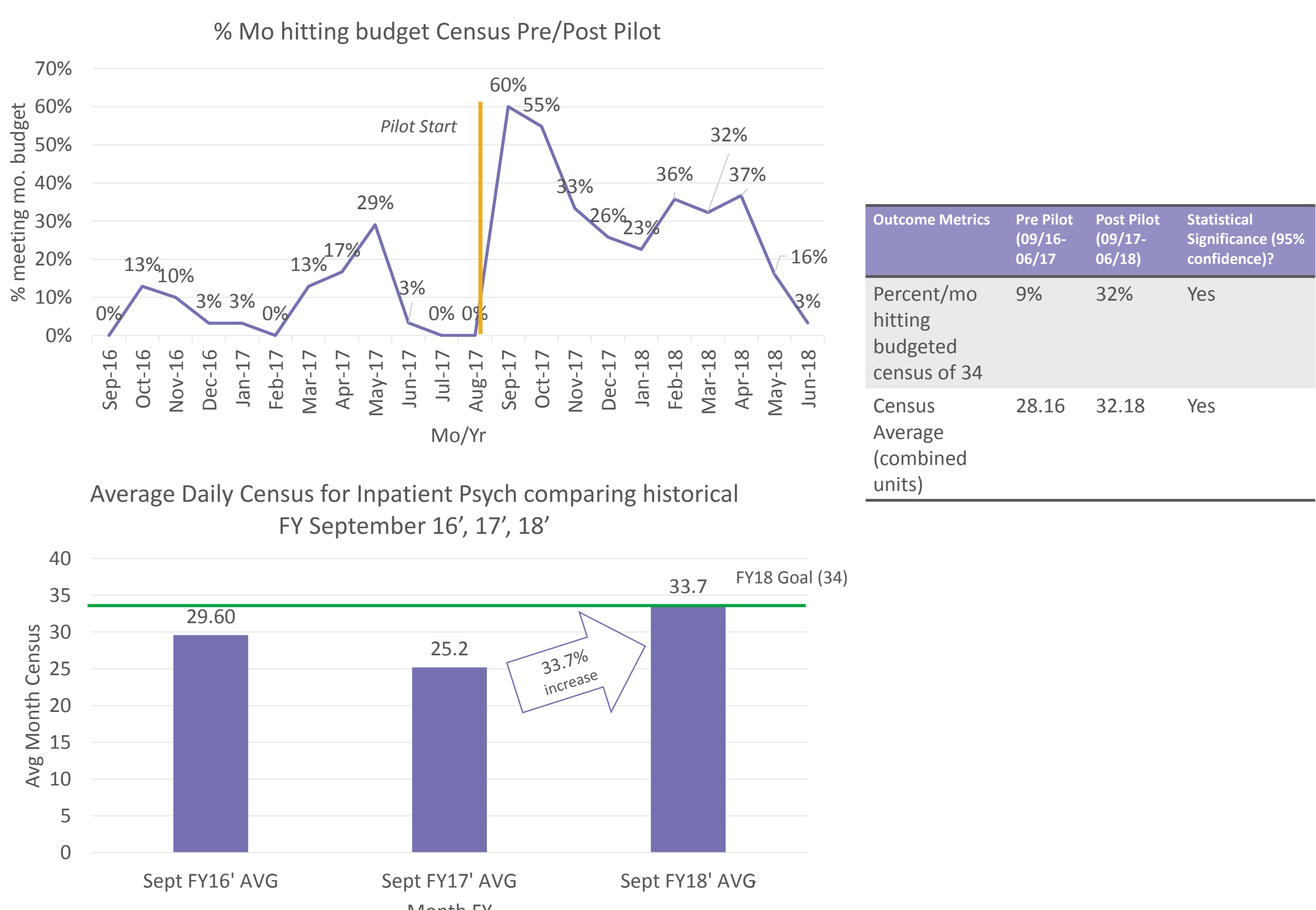
Results

IMPROVE PHASE

Interventions: (Soft Go-Live: August 2017; Full Go-Live: September 2017)



Figures – 3 Pre-Post Data for IP Psych Average Daily Census



Figures – 4 CDH Inpatient Psych Focus Measure Performance Improvement

CDH Inpatient Psych Focus Measures	Odds Ratio	FY18 Baseline Rank	FYTD	Rank Change
Likelihood to Recommend	-	70	75	+5
Degree staff worked together to care for you	5.0	62	64	+2
Speed of Admission Process	3.0	12	31	+19
Helpfulness of the Nurses	2.5	65	69	+4
Helpfulness of Social/Recreational Activities	1.9	53	49	-4

Source: EDW FYTD: Sept17-June18

CONTROL PHASE

Figures – 5 Control Plan

Metric	Goal	Control Limit	Review Process	Frequency	Process Owner	Threshold for Action	Recommended Action Steps
Average Daily Census for Units 1C, 3C, and 5C (monthly average)	34	29	<ul style="list-style-type: none"> If below control for 3 days in a row: schedule urgent team meeting Review at monthly ED meeting Review with Inpatient Admissions team monthly (Dan, Jane, 1 CSC) 	Weekly/Monthly	Dan Doebler, Jane Ozinga	2 month below the control limit	<ul style="list-style-type: none"> Review process map with ED Case Therapy team and Psych RN's. Discuss: <ul style="list-style-type: none"> Communication barriers Throughput issues Physician acceptance problems If below limit send fax/call hospitals letting them know about open beds

Conclusions

The interventions completed were achieved through a multi-disciplinary team effort including the ED BHS Consult team, IP Psych clinical teams including RN's and Physicians and also a devoted executive sponsor. Next steps identified are to improve communication tools through the utilization of EPIC builds (adding and removing bed blocks and a comment field for cross unit communication) as well as a predictive model and analysis for RN staffing on 5CTR to remove potential bottlenecks of throughput. **Key Learnings:**

- The ED Case Therapist team had great engagement from their management team to expand their bandwidth to take on more tasks along with constant feedback and opportunities to update the workflow.
- The Executive Sponsor, VP of Operations, was an essential partner in messaging our objective and garnering support from various clinical teams.
- As Behavioral Health Services continue to be in demand more innovative, seasonal variation in workflows must be addressed so a department can easily flex as needed.
- The EMR is essential to capture data but also to be a communication tool for a department that has a long list of criteria that must be met prior to admission. ED consult teams are being tasked with bed management functions and it is essential to have appropriate technology and EMR support to garner efficient transfers.