

Pre-operative optimization:

Using data & pre-operative
tools for patient selection
and better outcomes





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Disclosure

Jeremy is a Clinical Integration Specialist at Force Therapeutics

STRATEGIC THEMES DRIVING CHANGE IN ORTHOPEDICS



Paying
stakeholders are
demanding more
for less



Reduced LOS +
bundles require
controlling the
home



Outcomes
monitoring is
critical for ongoing
improvement

PATIENT-GENERATED DATA DRIVE EVIDENCE-BASED IMPROVEMENT

PATIENT ENGAGEMENT



THREE QUESTIONS TO CONSIDER



Should this patient have surgery?

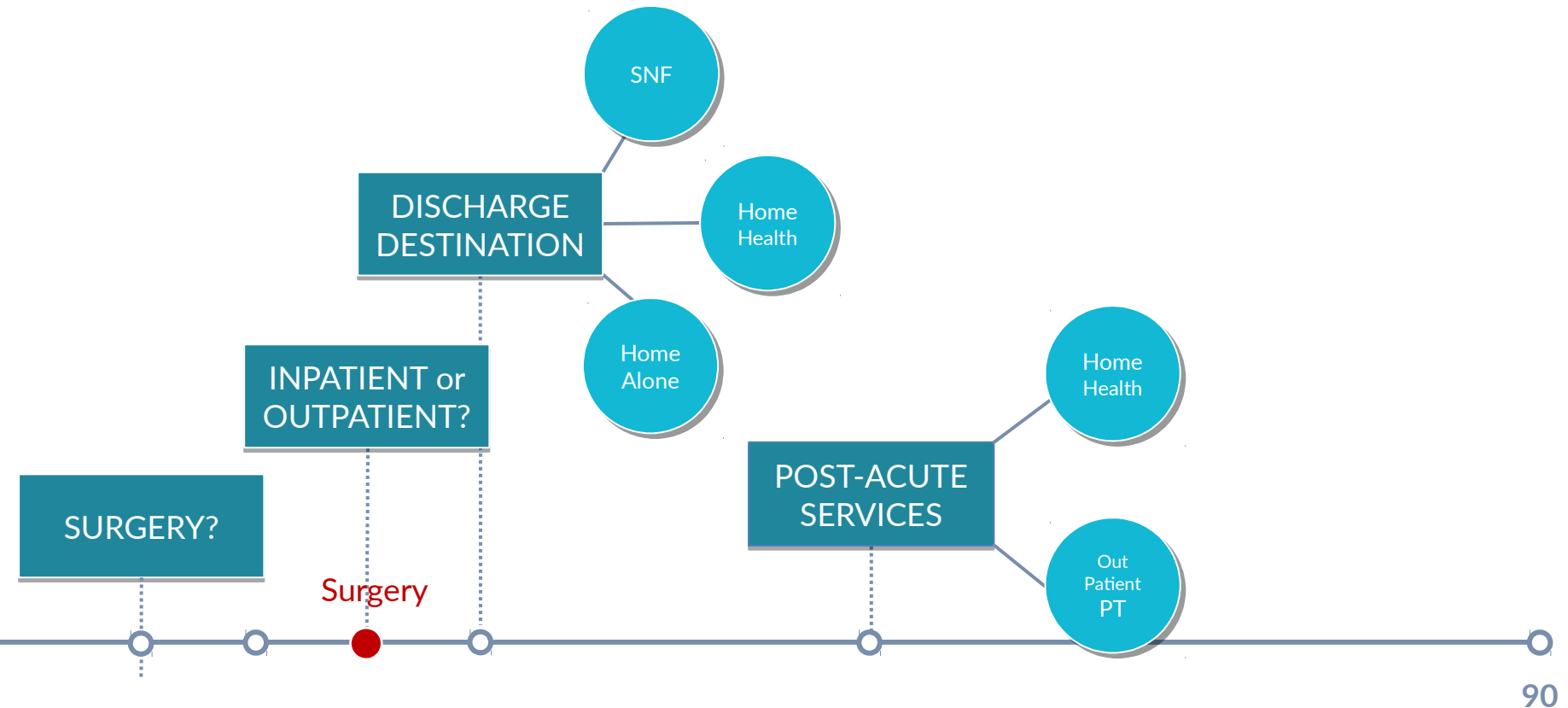


How long should the patient stay in the hospital?



What post-op services will the patient require?

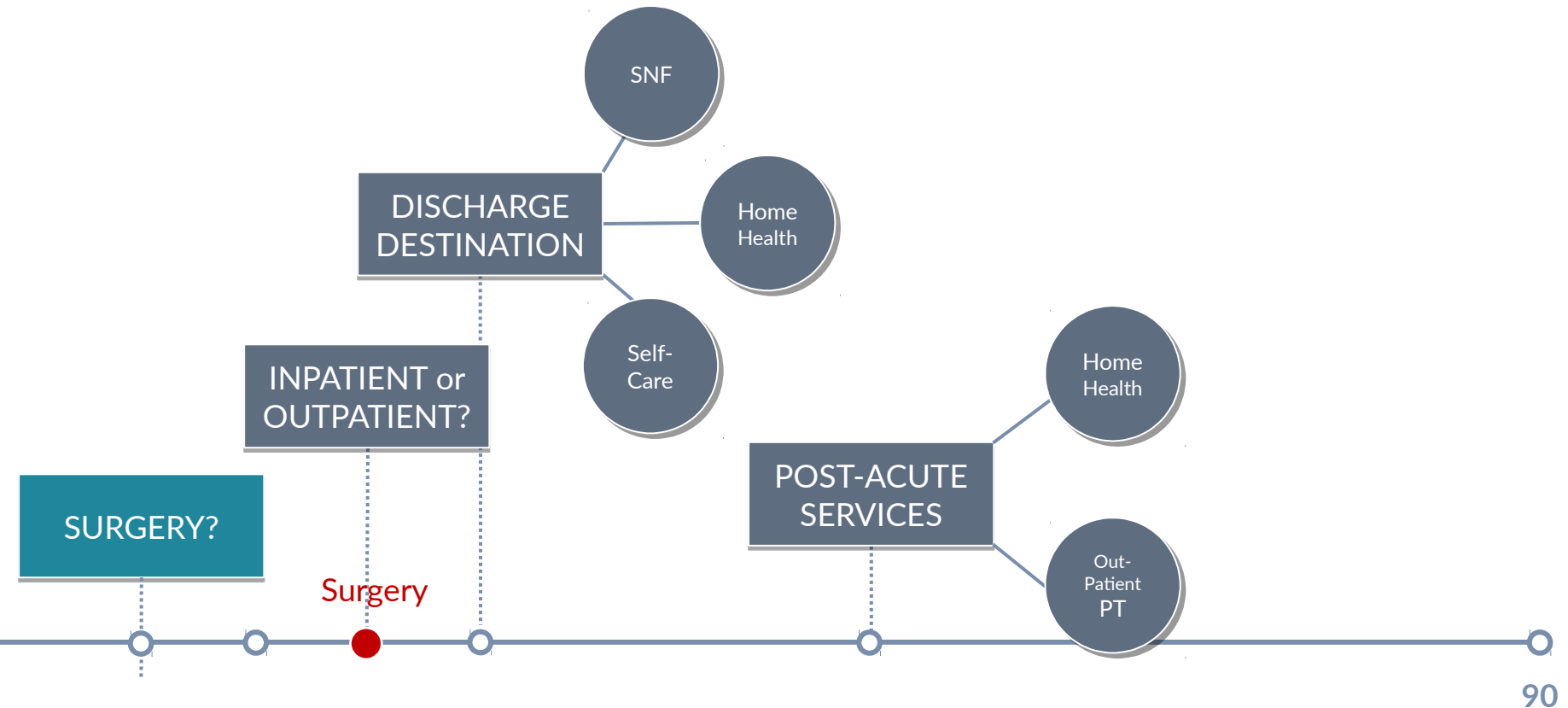
WHY IS PATIENT SELECTION IMPORTANT?



- Better patient outcomes
- Financial impact
- Properly allocated resources

- Standardization
- Evidence-based decision making

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PATIENT CHALLENGES BEYOND COMORBIDITIES

- Diabetes
- Heart disease
- BMI
- Smoking
- Blood conditions
- High Blood Pressure

- Mental health
- Coping / Resilience
- Walking distance per day
- Assistive device
- Opioid use
- Available social/emotional support

SHOULD THIS PATIENT HAVE SURGERY?

DETAILS

- N= 2,186 TJA cases
- Form used= VR-12 PCS
- Collected Pre-op and 12 wks post-op

Predictors achieving below average VR-12 PCS:

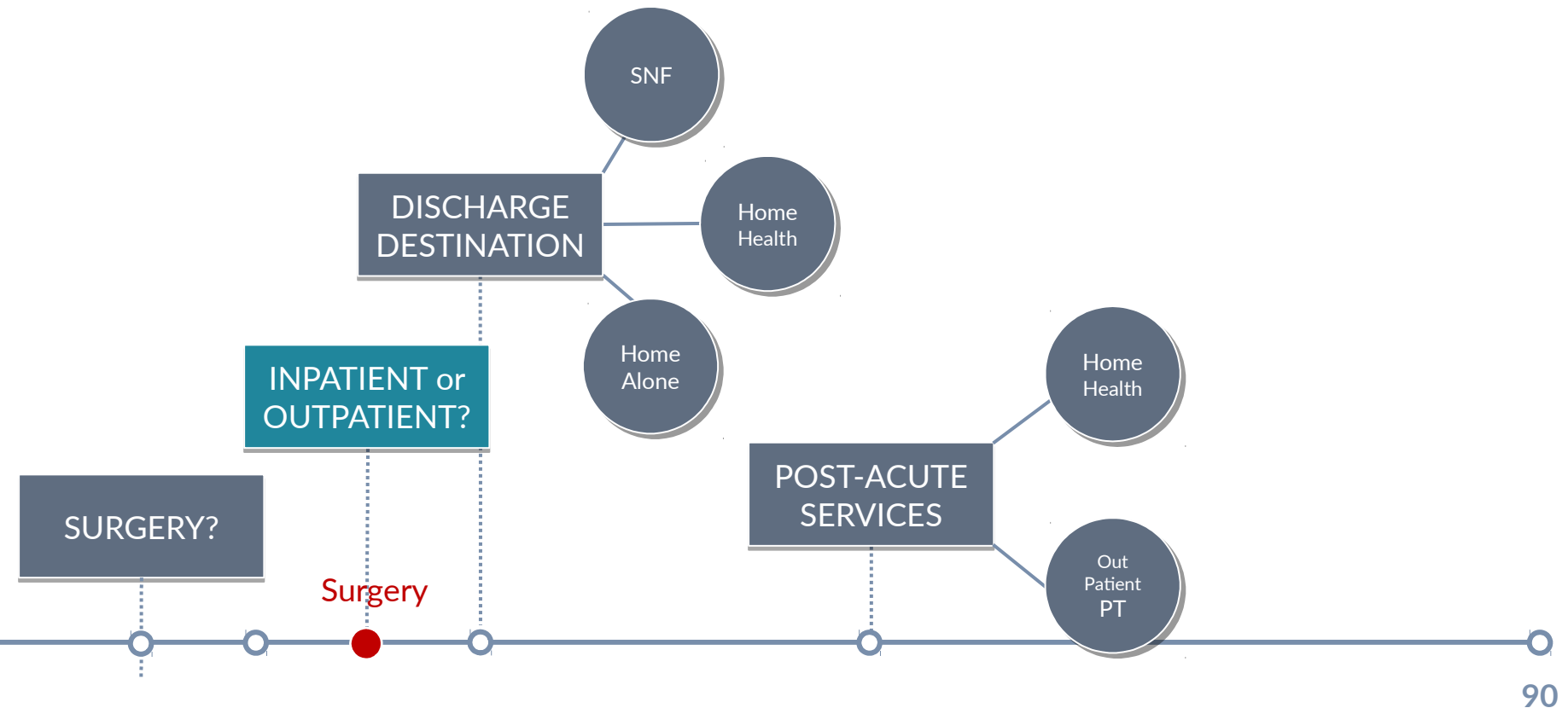
- Female Gender
- Diabetes
- **Opiate Usage > 30 days**
- Assistive device usage
- History of cardiac conditions

SHOULD THIS PATIENT HAVE SURGERY?

TAKEAWAYS:

- 1.6X higher risk for patients taking opioids 30 days prior to surgery
- Leverage opioid cessation pathways *prior* to surgery?
- Pre-operative opioid usage can play a significant role in determining surgical readiness, influencing patient outcomes

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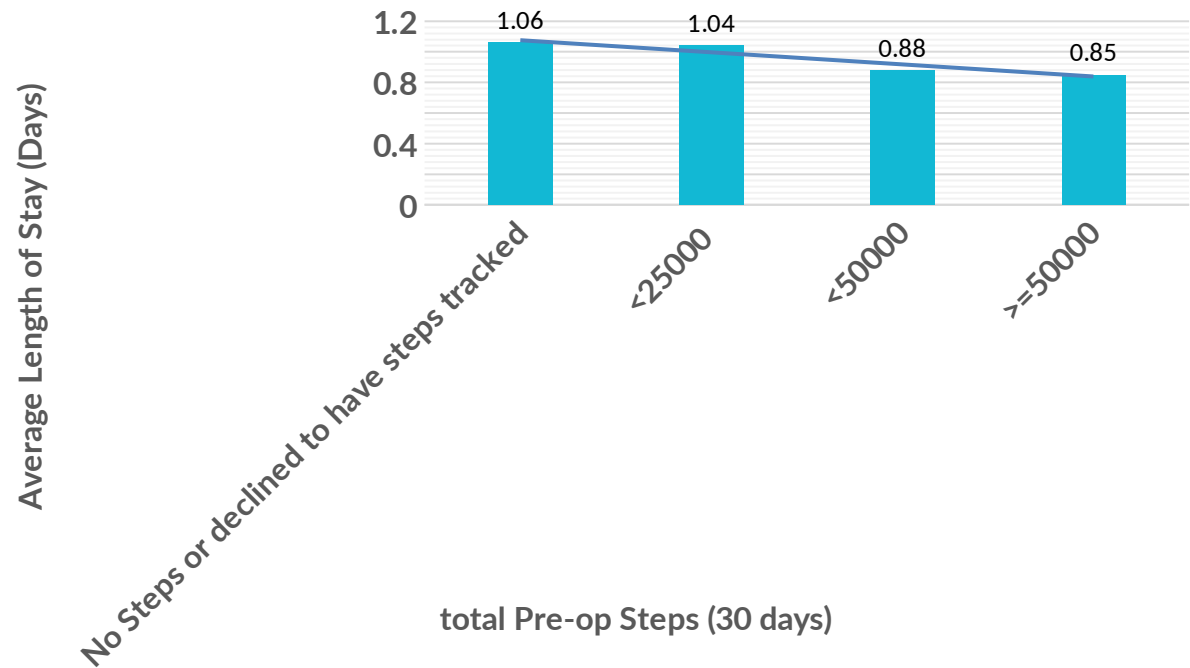
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HOW LONG SHOULD THE PATIENT STAY IN THE HOSPITAL?

DETAILS

- N= 2,737
- Force Daily Step Data. (Pre-op)
- Compared to LOS

Pre-op Steps & Length of Stay

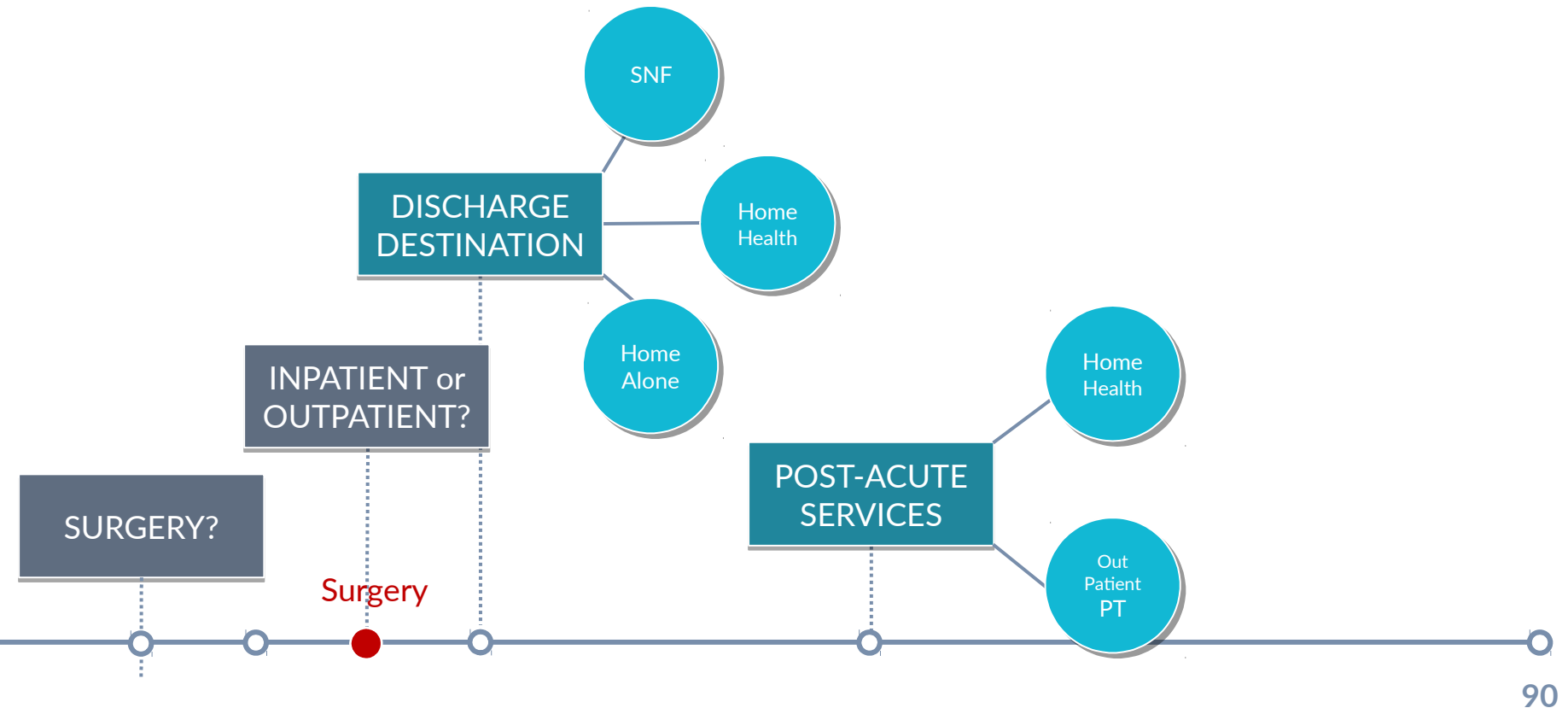


HOW LONG SHOULD THE PATIENT STAY IN THE HOSPITAL?

TAKEAWAYS:

- Patients that step above average during the month leading into surgery were discharged from the hospital sooner
- For Same-Day Discharge decisions, mobility / steps may be a better indicator than PROMs?
- Using objective step data in conjunction with PROMs will provide a more comprehensive picture of function

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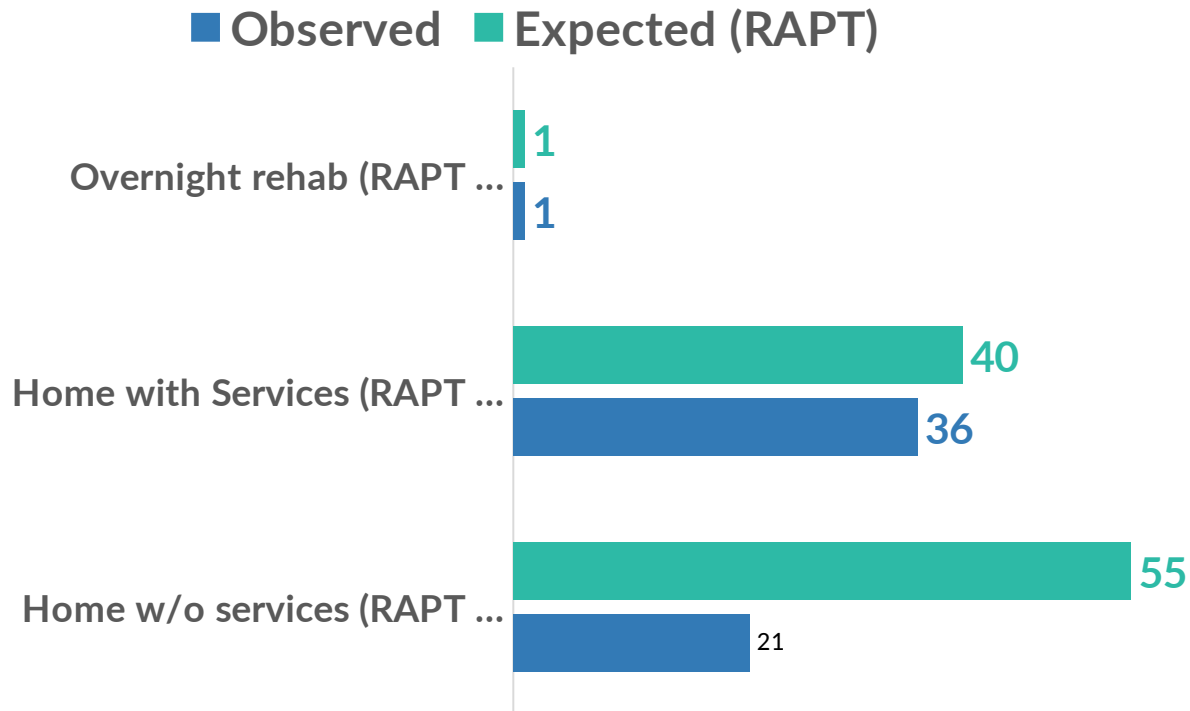
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WHAT POST-OP SERVICES WILL THE PATIENT REQUIRE?

DETAILS

- N= 99 TJA patients
- RAPT
- RAPT scores retrospectively compared with their post-acute services

Observed Vs Expected Post-Op Utilization (RAPT)



**On average, 7 Home Health visits provided across all groups

WHAT POST-OP SERVICES WILL THE PATIENT REQUIRE?

TAKEAWAYS:

- There is an opportunity to reduce post-acute services for lower-risk patients
- 34 patients that may have unnecessarily received HH, that's \$2,800 added cost per patient
- Patient satisfaction was consistent across all groups, regardless of services

DIGITAL
NAVIGATION

VIRTUAL REHAB

OUTCOMES
COLLECTION &
ANALYTICS

