### Purpose

- Our goal in this project was to decrease phase 1 length of stay to increase operating room throughput and utilization, decrease OR holds, increase patient experience and outcomes, and maximize utilization of resources.
- Ineffective throughput has significant financial implications and decrease patient experience scores related to early ambulation, pain control, and seeing their families sooner.
- The target was to reach 120 minutes or less for our highest length of stay population (hysterectomies) and 90 minutes or less for overall cases. This excluded our G.I. population which is high in volume, quick to recover and would potentially skew length of stay to look falsely low.

### Background

- Based on patient experience scores and baseline data, phase 1 length of stay times were longer than national benchmarks.
- Many of our patients have elective surgeries that are not truly elective due to the oncologic classification of their disease. We also aimed to provide surgical intervention to more of these patients in a timelier manner through improved OR utilization.

## Successful Practice Statement

- Since implementation, average length of stay overall decreased from 112 minutes to 90 minutes.
- Our highest phase 1 length of stay population, hysterectomies, decreased from 181 average minutes to 113 average minutes.
- Patients reported higher experience scores with early ambulation and visiting with family sooner. Fiscal productivity and OR utilization also increased.

# **Optimizing Throughput by Increasing Nursing Education** and Decreasing Length of Stay

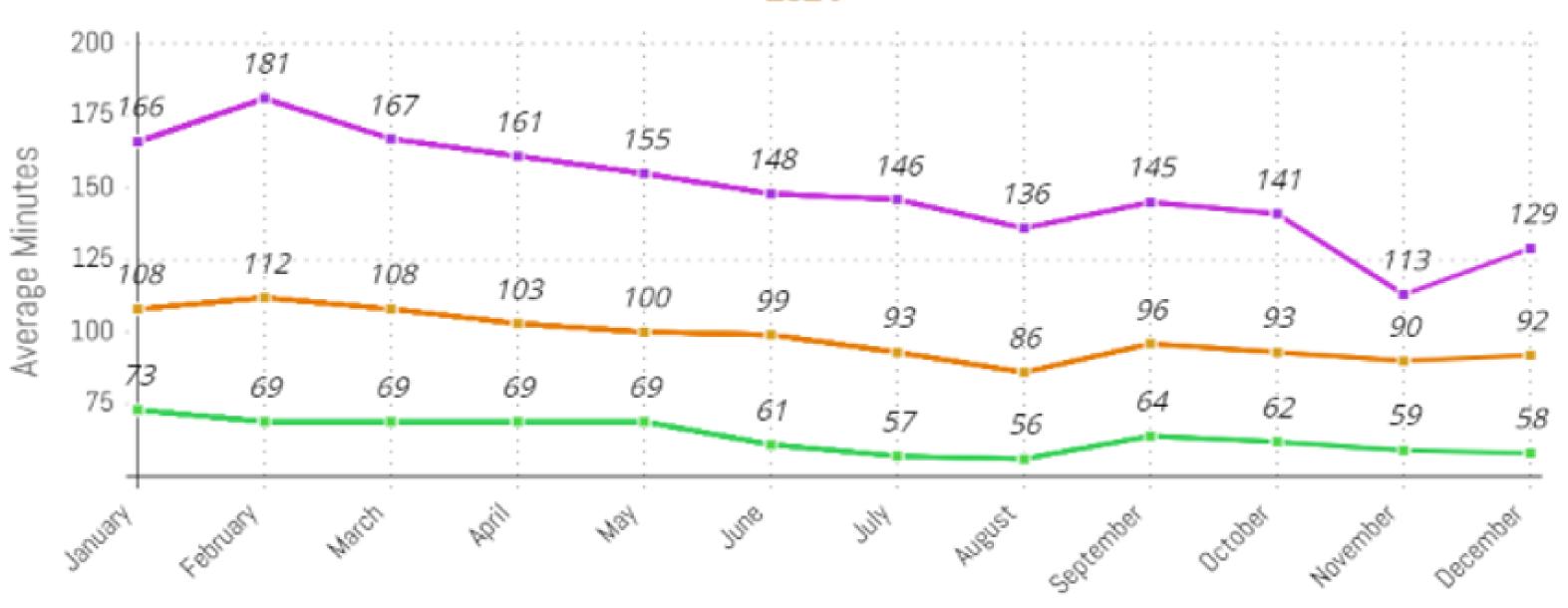
## PACU Discharge Tool PHASE 2 READINESS

## UPON ARRIVAL

- Assess patient Chart
- Slt patient up to at least 45
- degrees Utilize Nursing measures to optimize comfort before
- narcotics -Warm blankets

#### -raise knees heating packs

- oradol and tylenol
- already give





Molly DeLong MSN, RN, CPAN; Danielle Wineberg MSN, RN, CPN; Jamie Raab BSN, RN, CPAN; Amy Ulmer MSN, RN; Hannah Palmiscno MSN, RN; Rachael Tarczy MSN, RN

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## **DURING PACU STAY**

#### Is pain within 3 points of baseline preoperative pain

- Is the patient on room air
- and not apneic? Are o2 saturations above 94% or at the preoperativ
- Is blood pressure at
- baseline or within -20%
- Is nausea controlled Has any shivering stopped
- Has any itching Stopped Is the patient easily
- and able to speak coherently?

#### Throughput Scripts –

- People love coming to Magee! We perform a lot of different surgeries. We have a great reputation, patients come
- We are a Magnet designated hospital
- Start in preop-telling patients how their day wil look. Explain what happens in recovery
- Explain fills. process/goal to reach to get there.
- If people get cranky "I must wake you up requently. It is my job to assess you after nesthesia to make sure you are safe."
- You're meeting the criteria, so we can move t the next phase. This doesn't mean you are eaving right now. You can sit up, drink, and se
- your family in phase 2 Don't ask the patient if they are ready to go Encourage them that they are meeting our riteria to move to the next phase.
- If people want to sleep "It takes about 24 irs for anesthesia to wear off. The best place for you to rest is at home in your bed.
- Use encouraging words "You are safe/ready to go home and rest there.'
- "You might not feel 'normal', but this is expected for having surgery and anesthesia Patient refuses to leave - "You've met our" lischarge goals, we can have the physician neck you out once more, and then we will get
- ischarge lounge "We have an area for you to wait for your ride. There are snacks and drinks for you in there and we can keep a close eye on
- neone questions why they can't stay i r phase 2 bay to wait - "We have a waiting

## WAKE CRITERIA

- Patients must meet an 8 or greater out o 10 to move out of phase 1 AND be free o Lightheadedness o Itching o Shivering Patients must meet a criteria of 10/10 o
- discharged from phase 2 to go home Pain score must be within 3 points o
- If a patient is on home oxygen, selec score of "1" rather than 0 or 2. Preoperative pain assessment sco
- hould be measured with movement a he anticipated site of surgery. (PreOp knee pain for knee surgery rather than preop back pain for knee surgery Minimum of 2 evaluations for
- lightheadedness must be performed before moving out of phase 1. Patient must be sitting or at a 45 degree
- Minimum of 5 minutes apart from the
- Minimum of 15 minutes from "end of procedure" on the tracker

## Phase 1 Length of Stay 2024

--- Sedation Cases --- Overall Cases

## --- Hysterectomies

UPMC

**UPMC** Magee Womens Hospital



Movement	Score
Purposeful movement of (at least) one lower and one upper extremity	2
Purposeful movement of at least one upper extremity (but neither lower extremity)	1
No purposeful movement	0
Blood Pressure	Score
Within 20% of preoperative baseline, without lightheadedness	2
Between 20%-40% of preoperative baseline, without lightheadedness	1
Less than 40% of preoperative baseline, and/or lightheadedness	0
Oxygen Saturation	Score
SaO2 greater than or equal to 95% or greater than or equal to (preoperative reading minus 2) without supplemental O2	2
SaO2 greater than or equal to 95% or greater than or equal to (preoperative reading minus 2) with supplemental O2	1
SaO2 less than or equal to 94% or less than (preoperative reading minus 2) with or without supplemental O2	0
Mental Status/LOC	Score
Awake and/or immediately aroused when called, follows command without delay	2
Arousable to stimuli (delayed), exhibits protective reflexes, and follows commands (but delayed)	1
Obtunded or persistently somnolent; with or without protective reflexes, with or without following commands	0
Respiratory Function/Airway Patency	Score
Coughs and deep-breathes freely, and/or on command	2
Coughs involuntarily, but not on command; maintains airway without support	1
Tachypnea, dyspnea or apnea, and/or requiring airway maintenance	0

## Implementation

- Audits were conducted on past phase 1 patients' length of stay to determine baseline data. It was determined there were no trends in longer lengths of stay and broad education was necessary.
- Perianesthesia leaders, and educator met with phase 1 charge RNs to discuss audits.
- Education was provided to all RNs in the form of "back to basics" in phase 1 nursing care that included a deep dive into using the WAKE score to move patients based on their individual criteria rather than time frames. We also reviewed ASPAN standards and goals of phase 1 vs phase 2 care.
- A discharge tool was created as a stop light report for reference.
- A prompting script for RNs to reference in all areas of the department was created.
- Charge RNs became "discharge champions", checking in with RNs whose patients were approaching 60 minutes in phase 1 to offer resources if needed. Daily phase 1 huddles discussed length of stay and updates in real time.
- Monthly updates were provided to all staff during staff meetings on the progress of the project.

## **Implications for Advancing PeriAnesthesia Nursing Practice**

- By safely decreasing length of stay in phase 1, inefficiencies and complications were reduced. Phase 1 RNs play a critical role in optimizing throughput and capacity management. Providing RNs with continuing education and resources promotes teamwork and a shared responsibility of operational goals.
- Decreasing phase 1 length of stay can improve patient experience and outcomes while affording the organization the opportunity to provide life changing surgical intervention to more patients.