# Same Day Discharge Gastric Sleeve with Addition of Virtual Health Monitoring

## **Objectives**

- Avoid hospital admissions due to capacity issues
- Enhance recovery post-gastric sleeve surgery
- Provide support, care and monitoring upon discharge

## Background

- Prior to 2020 gastric sleeve surgeries at University of Colorado Hospital had a 100% admit rate post-operatively. Patients stayed for an average of 1-3 days to be monitored for fluid intake, oxygen saturations and supplemental oxygen requirements.
- During the height of the pandemic, stable COVID-19 patients were being discharged with virtual monitoring (VHM) to watch their oxygen saturations and oxygen requirements to make space for patients who required a higher level of care. These virtual monitors avoided hospital admissions and allowed providers to keep a close eye on patients who were recovering from COVID-19 in the comfort of their own home.
- Due to hospital capacity issues from COVID-19, elective surgeries such as gastric sleeves were put on hold. It was quickly realized that gastric sleeve patients could benefit from VHM, allowing them to have their surgery and safely discharge home same day with continuous virtual monitoring.

## Education

- Tip sheets created and provided with each Same Day Discharge Gastric Sleeve patient to keep at the bedside as a reference for the PACU RN
- Super Users identified and available during the days when surgeries are completed

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### **Tip Sheet**

### UCH PACU Same Day Discharge Gastric Sleeve

- Patients will be identified by the surgical team for Same Day Discharge Gastric Sleeve surgery in clinic and then re-evaluated in the OR
- Make sure the providers place the <u>UCHS PACU Same Day Discharge Gastric Sleeve</u> order set
- PACU RN's will follow the UCHS PACU Same Day Discharge Gastric Sleeve order set as well as the PACU Postgp Anesthesia order set for pain control, nausea, and blood pressure control. Additional orders may be written to be used in PACU.
- Notify attending surgeon, resident on the case or Copper service for any issues in the PACU
- Notify physician prior to discharge to have them evaluate intake and discharge readiness
- Patients will spend a minimum of <u>4</u> hours in PACU (Dangle by hour 2, Up to chair by hour 3 and <u>ambulate</u> by hour 4)
- Patients will be on a <u>GI Surgical Gastric Bypass Clear Liquids Diet</u>- No caffeine, no sugar, no juice, no carbonated beverages. Goal intake while in PACU >200cc (no more than 30cc Q15min). No straws.
- All meds must be <u>IV</u> or <u>PO liquid</u>. Start ordered IV fluids to run over PACU stay
- Patient must stay on continuous pulse ox while in PACU phase 1 and phase 2
- NO CPAP/BiPAP while in PACU or until cleared by surgery (around 6 weeks)
- Patients must void prior to discharge
- Patients will be discharged home with oxygen (1-4L NC) which should be set up in clinic prior to surgen

Patients will be set up with Virtual Health to monitor oxygen levels while at home (set up in PACU)

### **Remote Patient Monitoring Information**

Recovering from the comfort of your own home is shown to help your healing process and overall wellbeing. This monitoring device will let you keep recovering at home, while your care team track medical changes that may need our attention. As long as you are wearing it, this device sends some of your most important vital signs back to your care team. This helps to make sure you are recovering safely



dirty. There is extra tape in your ki

Don't get your device wet.

washing hands.

For help, call the

at 720.462.2260,

24 hours a day.

Virtual Health Center

Take it off for showering and

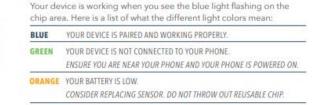
Basic information. A nurse will place the device on your wrist and fingertip. The device then tracks and sends the following information to the UCHealth Virtual Health Center staff:

estions or concerns. For help, call 720.462.2260. first day in the program to complete your enrollment. Most patients will be enrolled in the program for a total of 5-7 days. may be longer if needed. You may also get a phone call if your provide

ns about your vital signs

### Indicator light.

RED YOUR BATTERY IS VERY LOW.



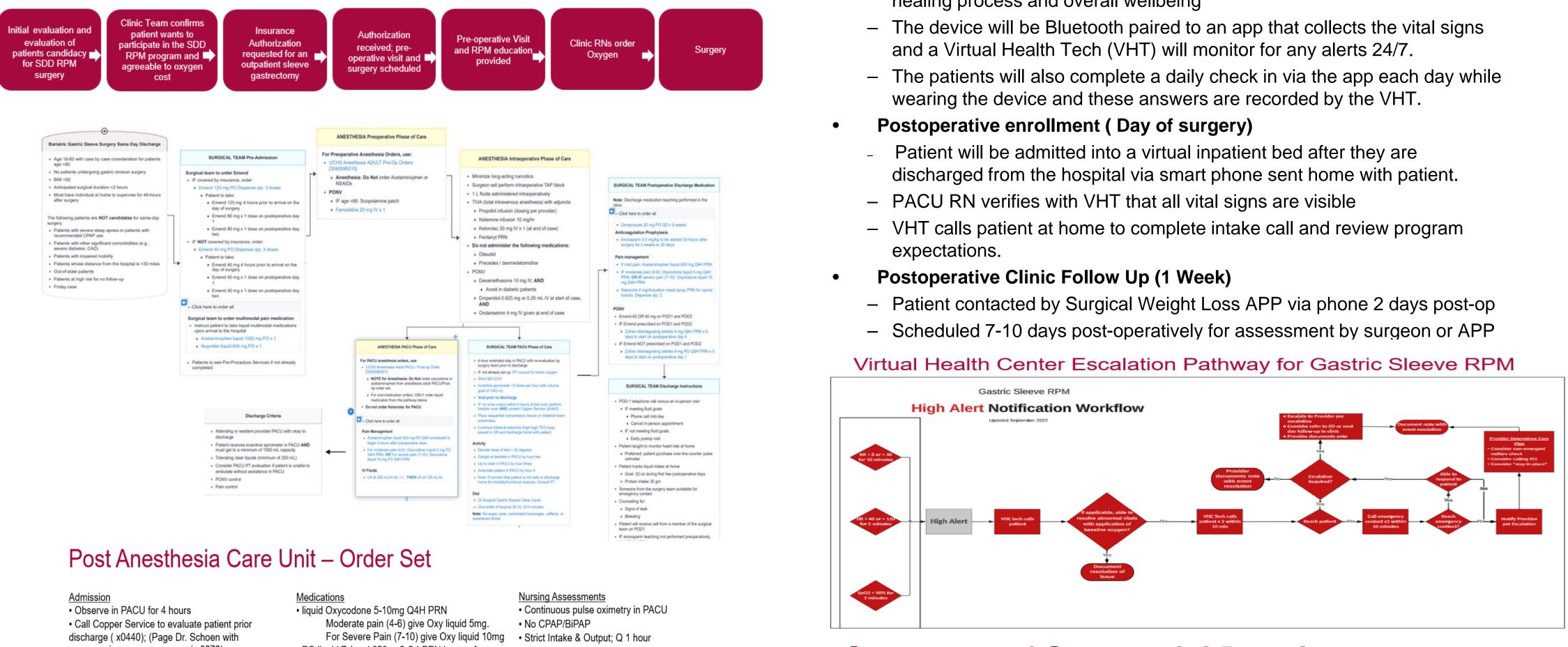
REPLACE SENSOR. DO NOT THROW OUT REUSABLE CHIP. Jsing the monitoring device phone app. efore you leave the hospital, a member of your care team will help you download the app and ensure you know how to use it. The app, as well as the user guide, can be nelpful for more information

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- Must have individual at home to supervise for 48 hours after surgery
- Demonstrates understanding of Remote **Monitoring Devices**

## **University of Colorado Hospital**

## **Process Implantation**



### Oxygen levels Pulse rate · Breathing rate (respiratory rate The Virtual Health Center is staffed by nurses and doctors 24 hours a ay, 7 days a week. You or your loved one may call at any time with ou can expect a phone call from the Virtual Health Center staff on you

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• Developed an order set and agile pathway from pre-admission though patient discharge. • Educated staff, surgeons and patients on processes, orders and equipment.

- emergencies or any concerns (x 0872) UCHS Home Oxygen Discharge Orders

<u>Vital Signs</u> Vital signs per PACU routine

### Activity

- Elevate head of bed greater than; 30 degrees upon arrival to PACU
- Dangle at bedside; in PACU; by hour 2 in PACU Up to chair evening of surgery; Post-op; by hour 3
- in PACU
- Ambulate patient; post op; by hour 4 in PACU
- IV Fluids
- LR @250ml/hr for total of 1L LR @ 125ml/hr (starting 4 hours after initiation of LR in PACU)

## **Patient Selection**

### Inclusion

- Age 18-60 with
- Primary bariatric procedure (no revisions)
- BMI < or equal to 50
- Anticipated surgical duration < 2 hours

- PO liquid Tylenol 650mg? Q4 PRN hours after pre op dose
- We can educate anesthesia to NOT check any of their medications in their order set for pain only nausea to help with the confusion of the PO liquid and pill medications

### Diet/Nutritior

- GI Surgical Gastric Bypass Clear Liquid- Check box for no caffeine, check box for paper plate, add comment- Add 1 bottle of Isopure
- Diet Message to Nutrition Services; No sugar, juice, carbonated beverages, sweetened drinks or caffeine Nursing communication- All meds must be IV or liquid PO
- PO intake no more than 30ml Q15min of isopure or water, encourage small sips. Goal intake is >200cc while in PACU over 4 hours

- Incentive spirometer, deep breathe and cough 10 times per hour; post-op and chart in EMR; 1500ml Volume goal

### Nursing Interventions

 Void Prior to discharge If no urine output within 6 hours of last void, bladder scan patient and call Copper service at x0440 Place Sequential compression device while in bed; remove while up in chair and ambulating Continue bilateral extremity Thigh-high TED hose are on and discharged home with patient

## **Statement of Successful Practice**

- Reduced unnecessary hospital admissions while still providing safe and effective monitoring and care.
- Improved care coordination and collaboration.

## Exclusion

- Severe Sleep Apnea or recommendation of CPAP use
- Significant medical comorbidities (severe diabetes, CAD) Impaired mobility
- Out of State patients
- Patients with poor cell service
- Patients at high risk for no follow-up
- Friday cases

- Recovering from the comfort of your own home is shown to help the healing process and overall wellbeing



- <u>Discharge</u> Discharge Patient

## Virtual Health Monitoring

## What is Remote Patient Monitoring? (RPM)

## Length of Stay

