

Monitoring fluid intake may help improve outcomes for bariatric surgery patients

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Nurses on the bariatric surgery care team at a Connecticut hospital were having difficulty keeping track of patients' fluid intake after hospital admission. To standardize this process, and to avoid patient readmission following bariatric surgery procedures, the team implemented a water intake improvement project to increase the amount of water these patients drank following their weight-loss operations. Study results were presented yesterday at the 2017 American College of Surgeons Quality and Safety Conference.

Adequate fluid intake is an important component of the recovery process. Dehydration is one of the most common reasons for patient readmission after bariatric surgical procedures. However, after a bariatric procedure, patients often have nausea and pain. "Coupled with drastically reduced stomach capacity, it can be very difficult for patients to meet their hydration goals for some time after the procedure," said Cheryl Williams, MS, RD. Ms. Williams is the study's primary author and the bariatric program coordinator at Greenwich [Conn.] Hospital.

Ms. Williams said dehydrated patients can present to the emergency room with complaints of vomiting, headache, and dizziness, which leads to greater costs for the patient. "Preventing dehydration helps to improve the patient's recovery, as well as decrease emergency room visits and hospital admissions," she said.

To avoid this complication, a team of nurses and performance management staff at Greenwich Hospital, realized they needed to better



document patients' <u>water intake</u>. Before this project was implemented, patients were encouraged to drink <u>water</u> between meals, but there were water containers of various sizes in patients' rooms and no restrictions existed regarding who could bring outside beverages into rooms, Ms. Williams said.

As a result, "it was really tough for nurses and patients to get an accurate picture of how much fluid patients were drinking," Ms. Williams said.

Once this problem was identified and the team was assembled, Ms. Williams said they decided to limit the number and type of water containers available to patients admitted to the hospital after sleeve gastrectomy and Roux-en-Y gastric bypass operations. The team collected baseline data on fluid intake for two months. Patients then received six 8-ounce water bottles numbered consecutively and 1-ounce measuring cups at meals.

Water and meal provision was restricted to nurses only so they knew what the patients were consuming. Once the process was in place, data was collected for seven months, and is still being collected, on <u>fluid</u> <u>intake</u> and documentation. Nurses, nursing assistants, and food service staff members were educated about the program and patients were provided with a clear message regarding fluid goals.

The average water intake during the baseline period for 12 patients was 381.5 mL over 24 hours. After the project was put in place, the average intake for 39 patients increased to 1109.5 mL over 24 hours. Currently, the average for 102 patients is 1007 mL.

"By standardizing the intake and supplying and numbering the water bottles, this project was a great success in terms of being able to monitor how much the patients were drinking because you knew how many bottles they had," said Jacquie Hyland, RN, MHA, a study coauthor and



senior performance management specialist at Greenwich Hospital. Ms. Williams added the measuring allowed <u>patients</u> to drink consistently even after they went home from the hospital.

Ashutosh Kaul, MBBS, FACS, medical director of the <u>bariatric surgery</u> program at Greenwich Hospital, said this study shows the importance of team building to improve patient care.

"We built a core team that implemented a simple, low-cost, structured, and well-defined water distribution and documentation process, which resulted in better compliance of water intake," Dr. Kaul said. "This reduced variability and improved postoperative intake progression, and we are presently studying its effect on reduction of readmissions and facilitating early discharge."

To further ensure adequate water intake, study authors began adding flavorings to the water in March, Ms. Hyland said. They have also discussed expansion of the program on other floors of the hospital, but have no concrete plans to do so at this point.

Provided by American College of Surgeons

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