An alternative approach to intragastric balloon retrieval

Placement of an intragastric balloon is a nonsurgical treatment for weight loss [1, 2]. Balloon retrieval can be difficult, however: forcing or persisting can cause perforation or esophageal laceration, as well as extending the anesthesia time [3 – 5]. The patient should be on a liquid diet for 2 days, drinking diet coke, which cleans away any residual food around the balloon, and then only water for the last 12 – 24 hours; the patient should fast for the final 12 hours.

The treatment uses the BIB system (Apollo Endosurgery, Austin, Texas, USA), which consists of a wire grasper removal instrument and needle aspirator. An aspiration catheter (Halyard Health, Alpharetta, Georgia, USA), Raptor grasper device (US Endoscopy, Mentor, Ohio, USA), and vegetable oil may also be used (Video 1). With the patient under general anesthesia, a gastroscopy is used to aspirate the gastric content. The gastric lumen is then deflated in order to prevent the balloon from moving during puncture and aspiration. The puncture needle is held in the needle aspirator, with its sharp end inside the catheter. The needle is then pushed inside the balloon to puncture it, and then removed leaving the catheter inside. The catheter is connected to a vacuum drainage device, and the entire contents of the balloon are aspirated, resulting in the balloon’s collapse.

To remove the balloon, the wire grasper removal instrument is inserted and grasps the superior part of the balloon, which has collapsed into folds. Slowly and gradually the endoscope is pulled back into the esophagus. Antispasmodic medication can be administered to relax the esophageal muscles. After reaching the gullet, the balloon is slowly removed from the mouth of the patient.

An alternative approach to balloon retrieval involves spraying vegetable oil over the balloon and throughout the esophagus. This method facilitates retrieval by making it easier to slide the balloon over the cardia and upper esophageal sphincter, and helps to avoid injury to the esophagus. A catheter can be used to spray 10 mL of vegetable oil over the balloon, esophagus, and gastric cardia. A Raptor grasper device is then used to grab the balloon. Knowledge and use of the vegetable oil technique can reduce the risk of complications in cases of difficult balloon retrieval.

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References


Bibliography

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