

PEDIATRIC SURGERY

Laparoscopic Nissen Fundoplication

Preference Card

1. 5mm infraumbilical port (1), 5mm port to right of falciform near costal margin (2), 5mm port to left of midline 1/2 between umbilicus and xiphoid (3), 5mm LLQ port at umbilicus level(4), 5mm right side port at umbilical level at mid-clavicular line(5).
2. Grasp diaphragm at GE junction via #2 with a tooth grasper,
3. Place a Babcock on greater curve via 4
4. Use a 5mm 30 degree laparoscope and move to 3 after inserting ports.
5. Dissect out GE junction and greater curve via 5,1
6. Keep bougie from the beginning to help dissection.
7. Put umbilical tape around esophagus and pull up on this via 4.
8. Dissect crura off esophagus.
9. Pull greater curve to right with 1 then divide short gastrics with harmonic scalpel via 4
10. Sew crura together from right side with 2-0 ethibonds on RB-1 needles.
11. Put laparoscope down to 1 then pull fundus through.
12. Do plication with 2-0 ethibonds. Use the know pusher for the top stitch, which is under tension then use an intracorporeal knot for the subsequent stitches if you have the skills to do it.
13. Secure wrap to diaphragm on at least one side with 2-0 ethibond.
14. For gastrostomy, grasp near the greater curve about midmay along the greater curve via port #3. Place 2 stitches with 0-Prolene on a CTX or other big needle full thickness through abdominal wall and stomach and back through the abdominal wall. Get a bite of stomach just medial and lateral to the site where the stomach is being grasped.
15. Release the grasper and pass the 16 G needle through the trocar site then into the stomach. Then pass the wire through the needle and remove the needle as with other Seldinger procedures. Pass a 6 then 12 then 16 Fr dilator over the wire. Then pass the 6 Fr dilator through a 14 Fr MIC-key (estimate length based upon the size of the pateint) button and pass the button/dilator over the wire and into the stomach. Blow up the balloon with 5 ml of water and remove the wire and dilator. Tie the ends of the 0-Prolenes over the button.
16. Attach tubing to the button that allows it to be placed to gravity.
17. Close trocar sites with dermabond.