

III12: THE EXPERIENCE WITH TROCAR SITE PRIMARY GASTROSTOMY IN CHILDREN

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Background Laparoscopic gastrostomy is a widely used procedure in children with failure to thrive, feeding disorders, or neurologic impairment. Various methods of laparoscopic gastrostomy and fixing stomach to abdominal wall have been described. U-stitch laparoscopic method is the most common technique with reported complication rates of 18% to 22%. However this method requires special dilatation kit and has additional cost. Trocar site primary gastrostomy under laparoscopic control described by Rothenberg et al is a simple and easy technique which does not require special instrumentation and a kit. We reviewed our experience with this technique to find out if the complication rates are acceptable.

Materials and methods The charts of 128 children on who underwent laparoscopic gastrostomy between 2007 and 2016 were retrospectively reviewed. The data including demographics, operative procedures and complications were recorded. All children underwent preoperative contrast imaging and 24-hour Ph monitorization. In all patients trocar site primary gastrostomy was done. The gastrostomy tube or button inserted to stomach in the center of a pursestring suture loop and the stomach is fixed to the anterior rectus sheath extracorporeally.

Results There were 49 girls (38.3%) and 79 males (61.7%). The mean age was 50 months at surgery time (1 days–18 years) and the average body weight was 13 kg (2300 gr–65 kg). Both laparoscopic Nissen fundoplication and gastrostomy was done in 116 (90.6%) patients and 12 (9.4%) patients had only laparoscopic gastrostomy. Gastrostomy site infection treated by antibiotics was the most common complication which is observed 14 (11%) patients. Peristomal leakage within 30 days was seen in 9 (7%) patients. Severe dislodgement of gastrostomy resulting in operative intervention occurred in 5 (3.9%) patients. Granuloma treated with silver nitrate application was developed in 4 (3.1%) patients.

Conclusions Trocar site primary laparoscopic gastrostomy is a safe, easy and cost effective technique with complication rates comparable with other laparoscopic gastrostomy methods.

Key words gastrostomy, children