

OMENTAL HERNIATION: AN UNDERESTIMATED COMPLICATION OF LAPAROSCOPIC PYLOROMYOTOMY

Fenne A.I.M. van den Bunder

Department of Paediatric Surgery, Emma Children's Hospital, Amsterdam UMC, University of Amsterdam, Amsterdam, The Netherlands.

L.W. Ernest van Heurn

Department of Paediatric Surgery, Emma Children's Hospital, Amsterdam UMC, University of Amsterdam, Amsterdam, The Netherlands.

Joep P.M. Derikx

Department of Paediatric Surgery, Emma Children's Hospital, Amsterdam UMC, University of Amsterdam, Amsterdam, The Netherlands.

Introduction

- Pyloromyotomy is a common surgical procedure in infants
- Small laparotomy or laparoscopy
- No specific complications about one of the approaches
- Small number of case reports about omental herniation (OH)
- **Aim:** To examine and compare complications of both approaches with specific attention to OH

Methods

- **Retrospective cohort** study of all patients with IHPS who underwent pyloromyotomy between **2007-2017**
- Severity of complications is classified by Clavien-Dindo

Discussion

- Previous studies noted no differences in peri- and postoperative complications between open and laparoscopic pyloromyotomy.
- OH occurred equally on either side of the abdomen and even after closure of the fascia.

The surgical complication rate of pyloromyotomy was **15.0%**

Omental herniation occurred only after laparoscopy (N=6/238; 2.5%) and required **re-intervention** in all cases. This complication is underestimated and requires attention.



Scan for abstract

Results

- N= 474 (236 open; 238 laparoscopic)
- Complication rate: 45 (19.1%) open vs. 26 (10.5%) laparoscopic (p=0.013)
- Severity and number of postoperative complications were comparable between both approaches (26 open vs. 22 laparoscopic; p=0.552)

	Total (%) (N= 474)	Open (N= 236)	Laparoscopic (N=238)	p-value
Operative complications				
Intraoperative no signs of IHPS	5 (1.1)	–	–	–
Duodenal perforation (stitched)	4 (0.8)	2	2	1.000
Serosal lesion of the stomach	19 (4.0)	19	0	0.000
Hemorrhage	1 (0.2)	0	1	1.000
Lesion of the skin	1 (0.2)	1	0	0.498
Lesion of the liver	1 (0.2)	0	1	1.000
Postoperative complications				
Duodenal perforation (reoperation)	2 (0.4)	1	1	1.000
Fascial dehiscence	8 (1.7)	8	0	0.004
Omental herniation	6 (1.3)	0	6	0.030
Wound infection	21 (4.4)	14	7	0.114
Incomplete pyloromyotomy	4 (0.8)	1	3	0.623
Incisional hernia	10 (2.1)	4	6	0.751
Sepsis	3 (0.6)	2	1	0.623
Hemorrhage (reoperation)	1 (0.2)	0	1	1.000
Peritonitis	1 (0.2)	0	1	1.000
Subcutaneous hematoma	1 (0.2)	1	0	0.498