

Laparoscopic surgery for diverticular disease may not be suitable early in the learning curve

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Benign colorectal surgery has been recommended for training in laparoscopic colorectal surgery (LCS). Our aim is to study whether LCS for diverticular disease suitable to obtain experience in the learning curve. To our knowledge, this is the first study to compare the results of LCS for diverticular disease with other LCS. This is a retrospective study of consecutive elective LCS performed between 2001 and 2011. The study compares LCS for diverticular disease (S group) with both LCS for other pathology (C1 group). The study included 194 LCS out of which 22 (11.3%) were in S group. Conversion rate in S group was 27.3% (6/22) versus 9.9% (17/172) in C1 group, $p=0.017$. The mean operating time was significantly higher in S group (250 minutes) compared with 196 minutes in C1 group, $p=0.0004$. The median length of hospital stay was 6 days in S group and 4 days in C group, $p=0.12$. Both morbidities and mortality rates were not statistically different between the two groups. Different sub-group analyses were performed to study the effect on training and the effect of the learning curve.

Pathology	Conversion Rate		Median Hospital stay (days)		Mean Operative time (minutes)		Morbidity	
Diverticular disease	6/22		6		250 n=22		12	
Malignancy	13/124	$p=0.043$	4	$p=0.06$	199 (n=84)		32	$p=0.011$
Benign non inflammatory	3/41	$p=0.055$	4	$p=0.03$	194 (n=40)	$p=0.0003$	8	$p=0.009$
Benign inflammatory	1/11	$p=0.37$	7	$p=0.95$	177 (n=6)	$p=0.003$	3	$p=0.27$

The study suggests benign non-inflammatory and/ or malignant pathology for the early phase in the learning curve.

Biography

Nader Naguib had MD degree in surgery from Ain-Shams University, Egypt in 2004. He received honorary fellowship from University Hospital of Saarbrücken, Germany. He was appointed as consultant and lecturer of surgery at Ain-Shams University then he moved to the United Kingdom in 2005, and now is an associate specialist in surgery at Prince Charles hospital in Wales. He has published 2 books, 22 papers and 48 abstracts in different aspects of surgery in reputed journals. He serves as a reviewer and editorial board in few journals. He has more than 25 presentations in national and international surgical meetings.

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