



Laparoscopic Anterior Resection, Cases Report

Poschong Suesat , MD

Laparoscopic Surgery for Colon Cancer

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Accomplished Laparoscopic Surgeon
15 Laparoscopic Colectomies

Average Surgeon

25 Hand-assisted Cases

50 Totally Laparoscopic Cases

Gastrointestinal Motility

Table 1

Randomized trials investigating return of bowel function after laparoscopic colectomy

Authors	Year	No. of patients	Time to bowels open	Significantly shorter than open
Milsom [40]	1998	54	3	Yes
Curet [42]	2000	18	2.7	Yes
Lacy [41]	2002	111	1.5	Yes
Hasegawa [43]	2003	29	2	Yes

Pain Reduction

Table 2

Randomized trials investigating reduction in pain after laparoscopic colectomy

Author	Year	No. of patients	Less pain	Significantly less pain than open
Stage [52]	1997	15	Yes	Yes
Schwenk [53]	1998	30	Yes	Yes
Milsom [40]	1998	54	Yes	Yes
Weeks [47]	2002	168	Yes	Yes
Hasegawa [43]	2003	29	Yes	Yes
Nelson [48]	2004	345	Yes	Yes

Length of Hospital Stay

Table 3

Randomized trials investigating reduction in hospital stay after laparoscopic colectomy

Author	Year	No. of patients	Length of stay	Significantly less than open
Stage [52]	1997	15	5	Yes
Schwenk [53]	1998	30	10.1	Yes
Milsom [40]	1998	54	5.2	no
Curet [42]	2000	18	5.2	Yes
Lacy [41]	2002	111	5.6	Yes
Weeks [47]	2002	168	7.1	Yes
Hasegawa [43]	2003	29	5	Yes
Nelson [48]	2004	345	5	Yes

Long-term Outcomes and Survival

Table 4

Trials investigating recurrence and survival after laparoscopic colectomy

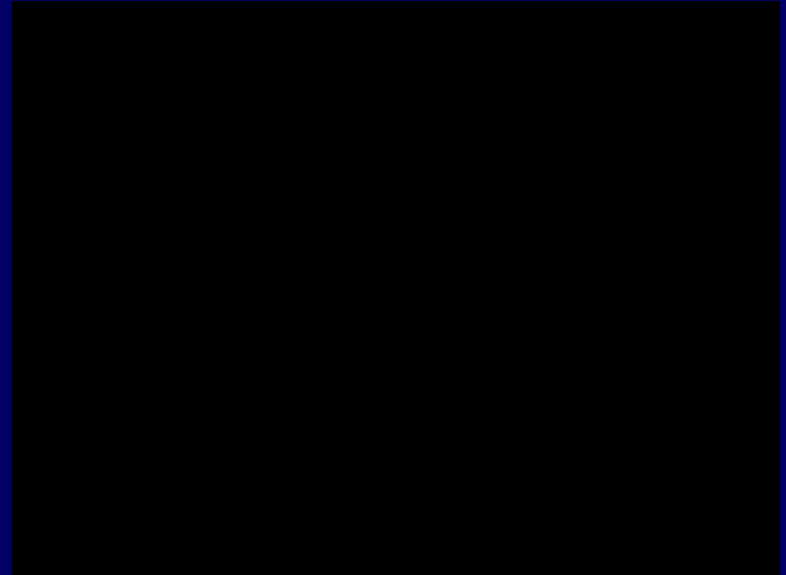
Author	Year	Study type	No. of patients	Recurrence %	Survival (year)	Survival %
Anderson [69]	2002	P	100	16.1	5	75.7
Scheidbach [70]	2002	P	206	11.6	5	80.9
Franklin [57]	1996	Cc	165	12.2	5	89.7
Schwandner [71]	1999	Cc	32	15.6	3	93
Hartley [72]	2001	Cc	21	5	3	71
Lacy [41]	2002	R	106	17	5	91
Nelson [48]	2004	R	345	0.5	4.4	77

Abbreviations: Cc, Case control; P, prospective; R, randomised.

Laparoscopic Anterior Resection for Sigmoid Colon Cancer

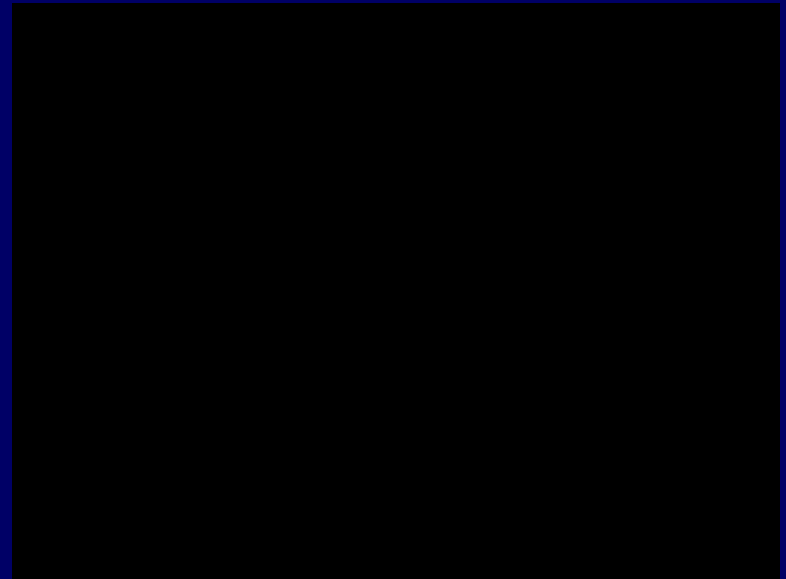
Sex	Age	Procedures	Op. time (Min)	Hosp. Stay (days)
Female	77	Lap. assisted	270	10
Male	54	Lap. assisted	250	8
Female	52	Hand-assisted	135	6
Male	90	Totally Lap.	230	7

Laparoscopic Assisted Anterior Resection



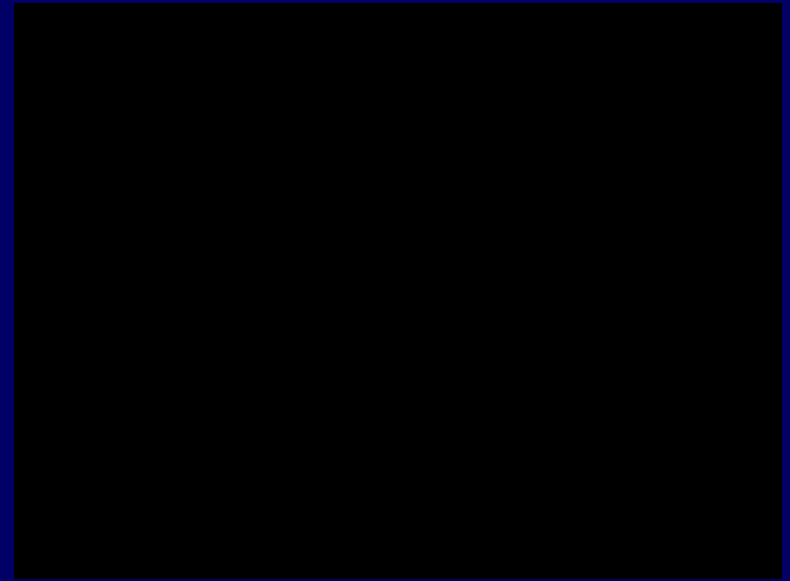
Video clip

Hand Assisted Laparoscopic Anterior Resection



Video clip

Totally Laparoscopic Anterior Resection



Video clip



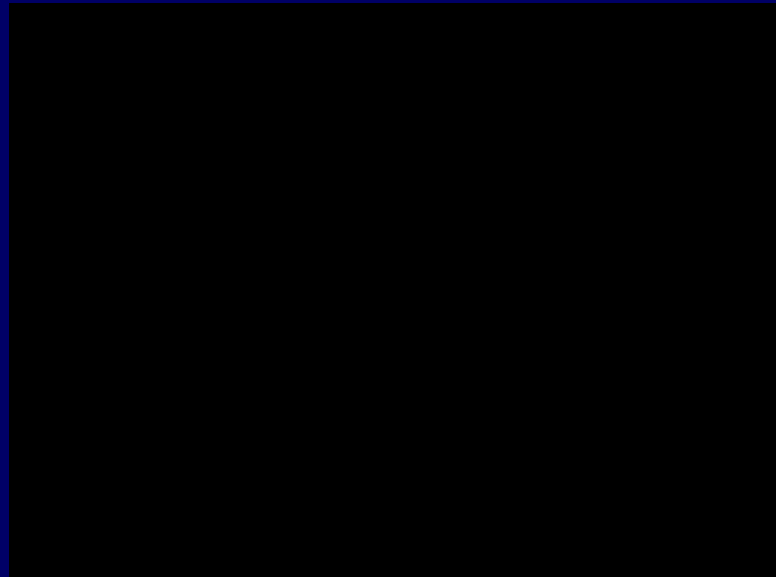
www.geocities.com/thaisurgery

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END**



The Forearm Balloon Invention for Hand Assisted Laparoscopic Surgery

Poschong Suesat , MD



Video clip