

Laparoscopic Colorectal Surgery

- Audit of 700 cases

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Introduction



Laparoscopic techniques for colorectal surgery have developed slowly.

Quantifying the value of laparoscopy in colorectal surgery has also been difficult.

Improvements in laparoscopic techniques has allowed treatment of a variety of colorectal diseases of increasing complexity.

Patients and Methods

7- year period from 11/91 to 12/98

717 consecutive cases in 2 institutions

Prospective database

Results - Biodata

400 F, 317 M

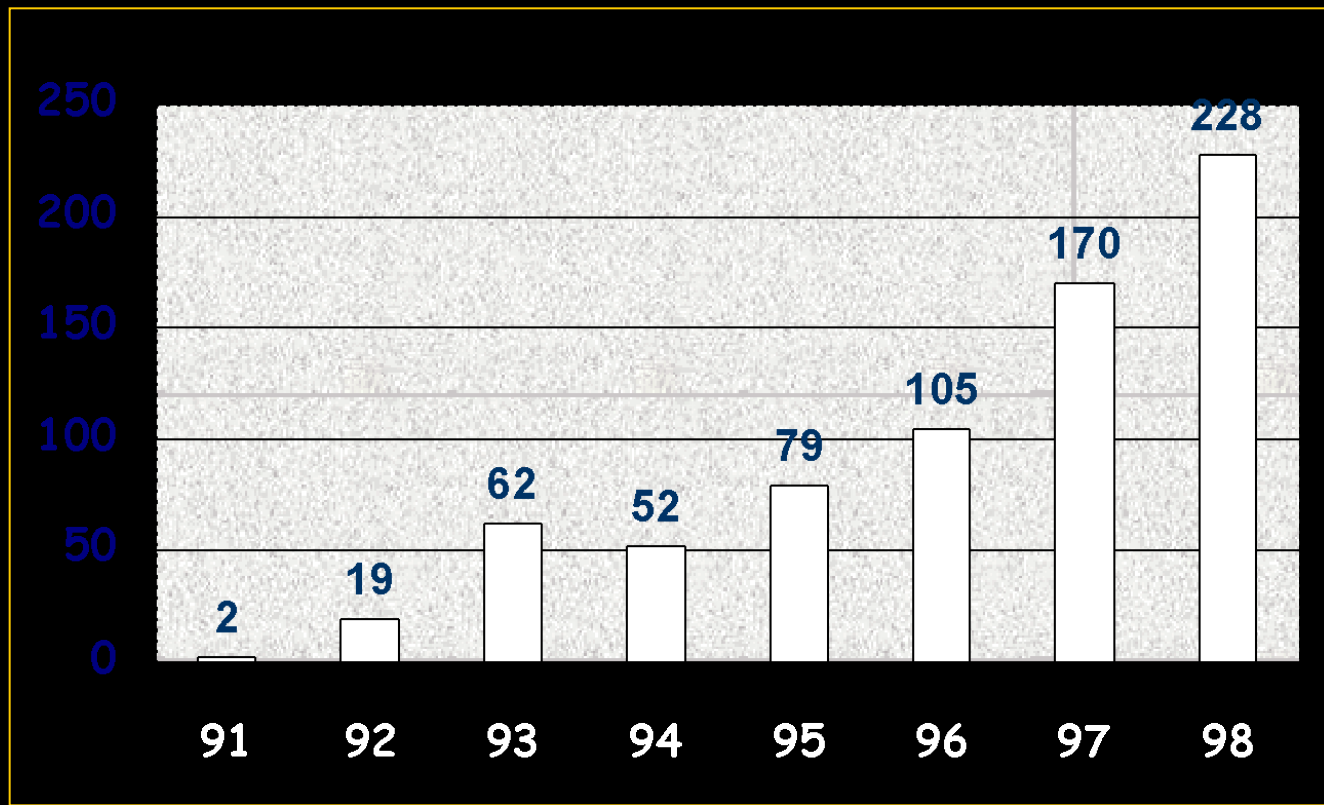
Age - Median 49, Range 12-92 yr

ASA I 14.9% III 31.1%

II 51.0% IV 3.0%

BMI - Median 24.8, Range 12.1-49.6 kg/m²

Cases per year



Diagnosis

IBD 165

Crohn's 117

MUC 48

Endometriosis 47

Rectal prolapse 43

FAP 39

Others 149

Neoplasm 162

Malignant 141

Benign 21

(pain, volvulus,
motility disorders,
etc)

Diverticulitis 112

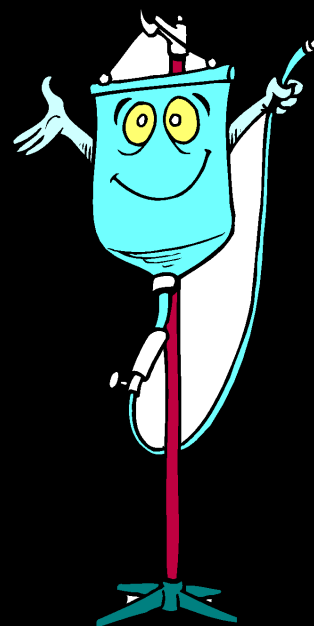
Operations

Proctosigmoidectomy	185	Appendectomy	16
Ileocollectomy	144	Hartmann's closure	15
Stoma creation	107	APR	11
Colectomy	96	Small bowel resection	11
	Others		25
Rectopexy	42		
Adhesiolysis	40		
TPC/IPAA	25		

Estimated Blood Loss

Median: 100 ml

Range: 0 - 2000 ml



Operation Time

Median: 170 min

Range: 15 - 491 min



Bowel function

Flatus

Median: 2 days, Range: DOS - 11 days

Bowel movement

Median: 4 days, Range: DOS - 13 days



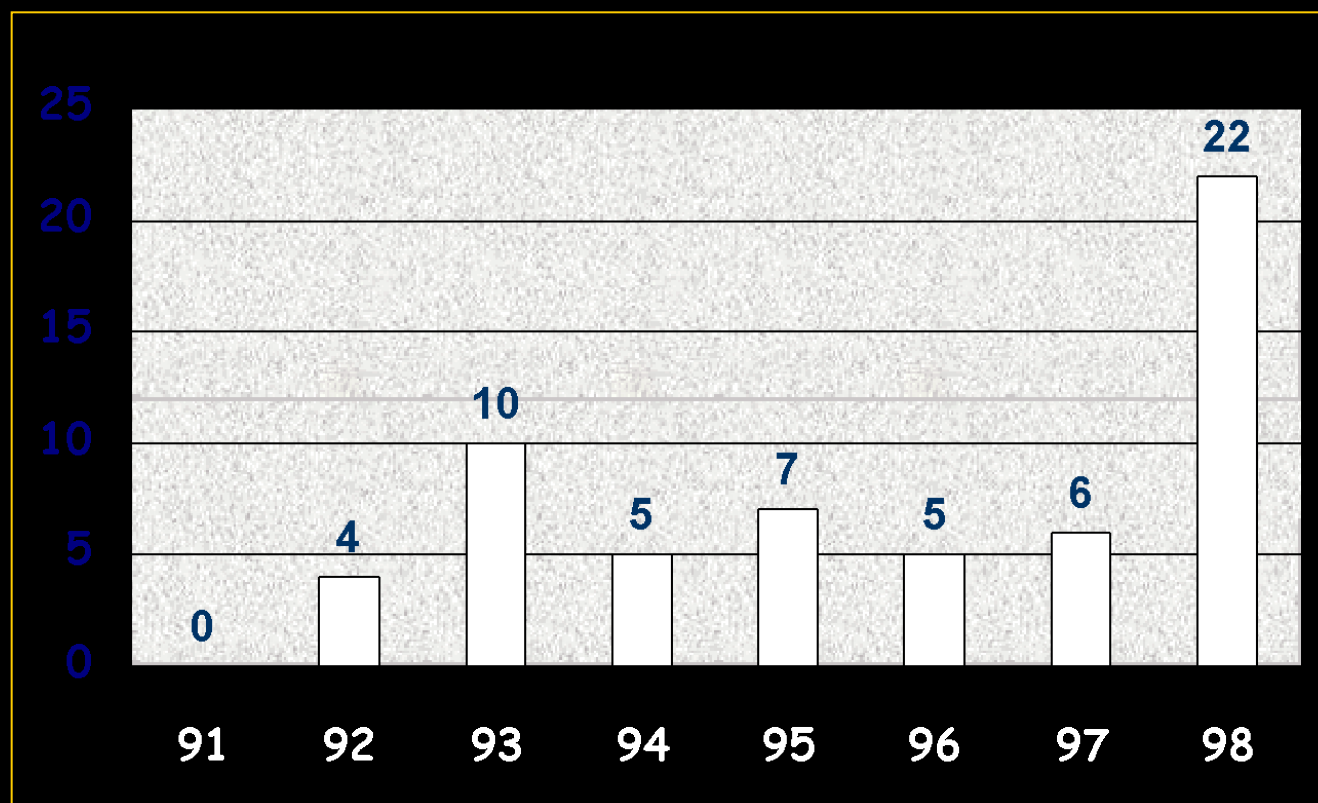
Length of stay

Median: 5 days

Range: 0 - 62 days



59 Conversions



Reason for conversion

Adhesions 22

Inflammation 11

Obesity 7

Tumor 5

Distension 4

Bleeding 3

Hypoxia 1

Others 6

Complications

Death 4 Ileus 35

Anas. Leak 16 Others 30

Pneumonia 10 Infection 12

DVT/PE 3/1 Hernia 3

MI 4 Hematoma 3

Port Site Recurrences: 0(141 cases)

Anastomotic Leak

16/476=3.4%

7 Proctosigmoidectomy

4 Ileocelectomy

4 Colectomy

1 Small bowel resection

Conclusions

Laparoscopic techniques can be applied **safely** and **effectively** to a wide range of colorectal diseases.

With further improvements in **instrumentation** and **technique**, laparoscopic surgery has the potential to be an advantageous alternative to conventional methods for patients with colorectal diseases.

Instrumentation

In surgical advances,
instrumentation often lags behind imagination



Technique

It is not the size of your cannula,
but its performance that counts



Team system

Of course you would be a great surgeon,
if ONLY you had better assistants

