Colorectal Surgery Evidence Update
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1) NICE Guidance

1) Crohn’s disease

2) New and Updated Cochrane Systematic Reviews

2) Workload and surgeon’s specialty for outcome after colorectal cancer surgery

Author’s conclusions: The results confirm clearly the presence of a volume-outcome relationship in colorectal cancer surgery, based on hospital and surgeon caseload, and specialisation. The volume-outcome relationship appears somewhat stronger for the individual surgeon than for the hospital; particularly for overall 5-year survival and operative mortality, there were differences between US and non-US data, suggesting provider variability at hospital level between different countries, making it imperative that every country or healthcare system must establish audit systems to guide changes in the service provision based on local data, and facilitate centralisation of services as required. Overall quality of the evidence was low as all included studies were observational by design. In addition there were discrepancies in the definitions of caseload and colorectal specialist. However ethical challenges associated with the conception of randomised controlled trials addressing the volume outcome relationship makes this the best available evidence.

3) Heparins and mechanical methods for thromboprophylaxis in colorectal surgery

Authors’ conclusions: The optimal prophylaxis in colorectal surgery is the combination of graduated compression stockings and low-dose unfractionated heparin. The unfractionated heparin can be replaced with low molecular weight heparin.
4) **Hand assisted laparoscopic surgery versus conventional laparoscopy for colorectal surgery**

**Authors’ conclusions:** Despite the limited number of trials performed, meta-analysis demonstrated a statistically significant decrease in conversion rates among the hand assisted group. There was no difference in operating time or perioperative complication rates. Additional adequately powered and methodologically sound trials are needed to determine if there is a clinically important difference in perioperative outcomes. Due to significant costs associated with the use of hand-assist devices, economic analyses are also warranted.

3) **Good Quality Systematic Reviews**

5) **Follow-up of patients after resection for colorectal cancer: a position paper of the Canadian Society of Surgical Oncology and the Canadian Society of Colon and Rectal Surgeons**

6) **Robotic colorectal surgery: hype or new hope? A systematic review of robotics in colorectal surgery**

7) **Laparoscopic versus conventional open surgery for immune function in patients with colorectal cancer**

8) **A review of the effect of peppermint oil in various gastrointestinal conditions**

9) **Hand-assisted or laparoscopic-assisted approach in colorectal surgery: a systematic review and meta-analysis**

10) **Mechanical bowel preparation for elective colorectal surgery: updated systematic review and meta-analysis**

11) **Outcome of laparoscopic colorectal surgery in obese and nonobese patients: a meta-analysis**

12) **Fast-track vs standard care in colorectal surgery: a meta-analysis update**

13) **Combination of oral non-absorbable and intravenous antibiotics versus intravenous antibiotics alone in the prevention of surgical site infections after colorectal surgery: a meta-analysis of randomized controlled trials**

14) **Quality of life after laparoscopic and open colorectal surgery: a systematic review**

15) **Mechanical bowel preparation in intestinal surgery: a meta-analysis and review of the literature**

16) **Sham feed or sham? A meta-analysis of randomized clinical trials assessing the effect of gum chewing on gut function after elective colorectal surgery**

17) **Comprehensive review of procedures for total colonic aganglionosis**

18) **Enhanced recovery after surgery protocols - compliance and variations in practice during routine colorectal surgery**

19) **Systematic review of enhanced recovery programmes in colonic surgery**
20) Enhanced recovery pathways optimize health outcomes and resource utilization: a meta-analysis of randomized controlled trials in colorectal surgery

21) Systematic review of quality of life following laparoscopic and open colorectal surgery

22) Meta-analysis of standard, restrictive and supplemental fluid administration in colorectal surgery

23) Mechanical bowel preparation for colorectal surgery: a meta-analysis on abdominal and systemic complications on almost 5,000 patients

24) Does external pancreatic duct stent decrease pancreatic fistula rate after pancreatic resection? A meta-analysis

25) Hyperbaric oxygen treatment for inflammatory bowel disease: a systematic review and analysis

26) Robot-assisted versus conventional laparoscopic surgery for colorectal disease, focusing on rectal cancer: a meta-analysis

27) Capecitabine plus oxaliplatin compared with 5-fluorouracil plus oxaliplatin in metastatic colorectal cancer: meta-analysis of randomized controlled trials

28) Radiofrequency ablation versus resection for colorectal cancer liver metastases: a meta-analysis

29) The role of laparoscopy and laparoscopic ultrasound in the preoperative staging of patients with resectable colorectal liver metastases: a meta-analysis

30) Single-incision laparoscopy for colorectal resection: a systematic review and meta-analysis of more than a thousand procedures

31) Does anti-EGFR therapy improve outcome in advanced colorectal cancer? A systematic review and meta-analysis

32) Resectability and outcome with anti-EGFR agents in patients with KRAS wild-type colorectal liver-limited metastases: a meta-analysis

33) Prevention of postoperative recurrence of Crohn’s disease

34) A diagnostic accuracy meta-analysis of endoanal ultrasound and MRI for perianal fistula assessment

35) Is the 1-cm rule of distal bowel resection margin in rectal cancer based on clinical evidence? A systematic review

36) A systematic review of clinical response and survival outcomes of downsizing systemic chemotherapy and rescue liver surgery in patients with initially unresectable colorectal liver metastases

37) Update of complications and functional outcome of the ileo-pouch anal anastomosis: overview of evidence and meta-analysis of 96 observational studies
38) Hepatectomy and resection of concomitant extrahepatic disease for colorectal liver metastases: a systematic review

39) Postoperative adjuvant chemotherapy for stage II colorectal cancer: a systematic review of 12 randomized controlled trials

40) Comparison of efficacy between uncovered and covered self-expanding metallic stents in malignant large bowel obstruction: a systematic review and meta-analysis

41) Safe and early discharge after colorectal surgery due to C-reactive protein: a diagnostic meta-analysis of 1,832 patients

42) Rigid or flexible sigmoidoscopy in colorectal clinics? Appraisal through a systematic review and meta-analysis

43) Somatostatin analogues in advanced hepatocellular carcinoma: an updated systematic review and meta-analysis of randomized controlled trials

4. Economic Evaluations

44) Prevention, screening and treatment of colorectal cancer: a global and regional generalized cost effectiveness analysis

45) Efficacy of preoperative bowel preparation at home

46) Randomized clinical trial comparing consultant-led or open access investigation for large bowel symptoms

47) Laparoscopic versus open colorectal surgery: cost-benefit analysis in a single-center randomized trial

48) Nurse or surgeon follow-up after rectal cancer: a randomized trial

49) Assessing appropriateness for elective colorectal cancer surgery: clinical, oncological, and quality-of-life short-term outcomes employing different treatment approaches

50) Economic analysis of lowdose heparin vs the low-molecular weight heparin enoxaparin for prevention of venous thromboembolism after colorectal surgery

51) A prospective, randomized, double blinded, placebo controlled trial of cisapride after colorectal surgery

52) Enhanced recovery after colon surgery in a community hospital system


54) Single-incision laparoscopic surgery using colon-lifting technique for colorectal cancer: a matched case-control comparison with standard multiport laparoscopic surgery in terms of short-term results and access instrument cost
55) Preliminary analysis of the cost-effectiveness of the National Bowel Cancer Screening Program: demonstrating the potential value of comprehensive real world data

56) Primary prevention of colorectal cancer with low-dose aspirin in combination with endoscopy: a cost-effectiveness analysis

57) Differences in outcomes between cholecalciferol and ergocalciferol supplementation in veterans with inflammatory bowel disease

58) Surgical management of malignant bowel obstruction: at what price palliation?

59) Can a gastrointestinal pathologist identify microsatellite instability in colorectal cancer with reproducibility and a high degree of specificity?

60) Improving colorectal cancer screening among the medically underserved: a pilot study within a federally qualified health center

61) Optimizing clinical and economic outcomes of surgical therapy for patients with colorectal cancer and synchronous liver metastases

5. NHS Behind the Headlines

62) Pill-size camera may make cancer diagnosis easier

63) Tea cuts bowel cancer risk

64) 'Poo transplants' explored for treating C. difficile

6. Latest Journal Table of Contents
If you would like full text of any of the articles listed in the below journals then please contact us to request a copy. This is a free service but you will need to complete our Article Request Form. Or you may email us directly quoting the number(s) of the articles you would like.

65) Clinical Colorectal Cancer

66) Colorectal Disease

67) Diseases of the Colon & Rectum

68) International Journal of Colorectal Disease

69) Seminars in Colon and Rectal Surgery

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