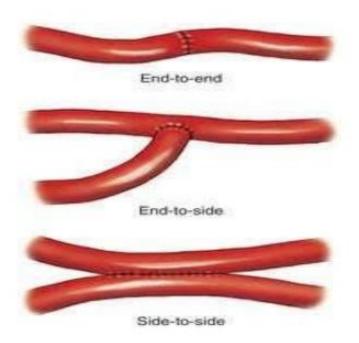


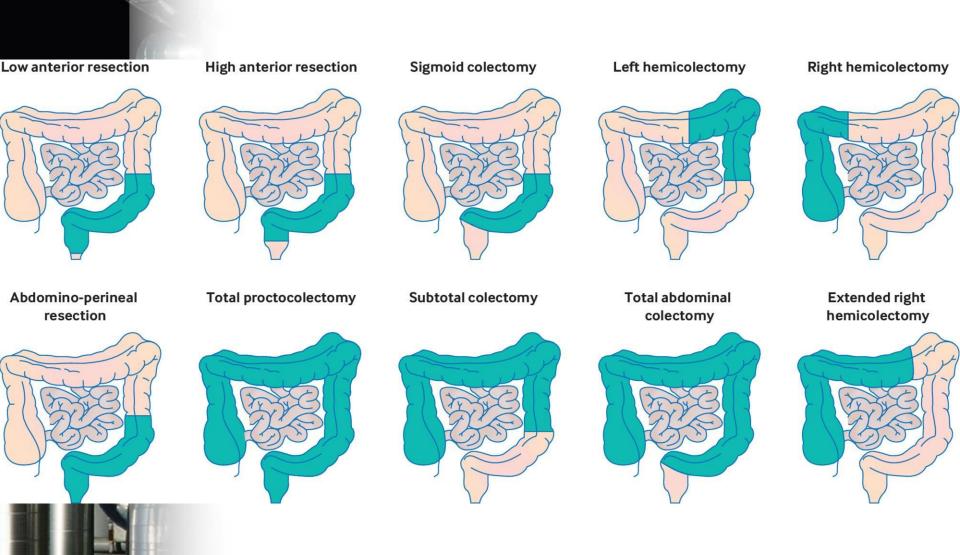


Types

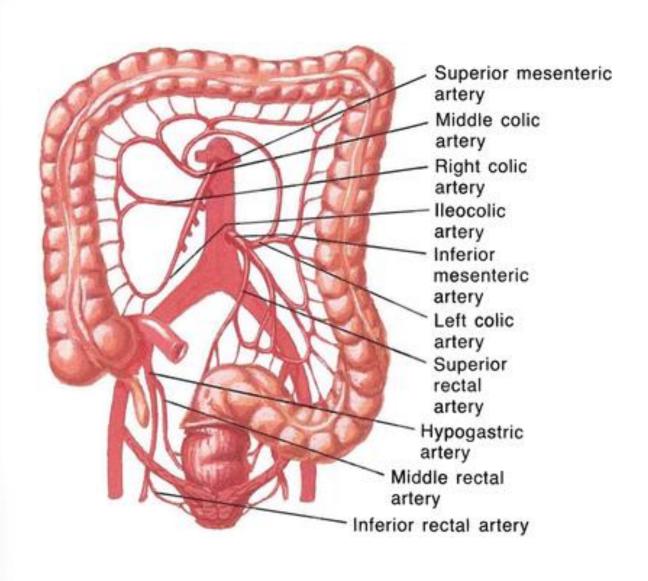
- End to End
 - Small bowel resection
 - Anterior resection
- Side to Side
 - Entero-enterostomy eg.bypass
 - End to side
 - Roux-en-Y



Which anastomosis?



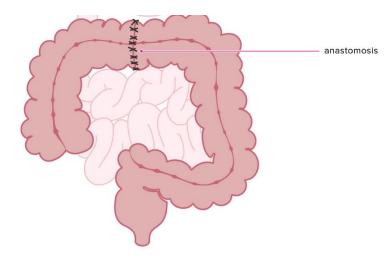
It mostly depends on supply



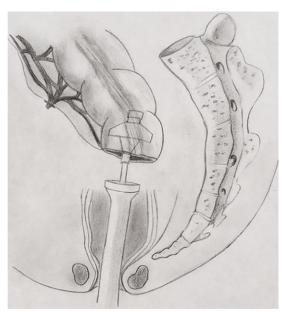


End to end

Handsewn

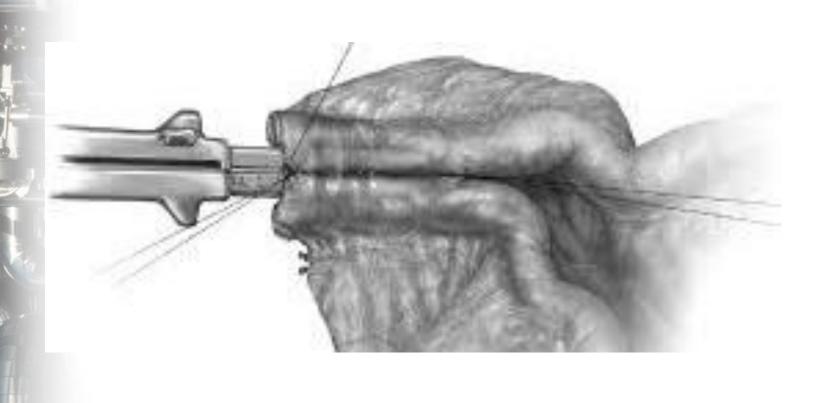


Stapled



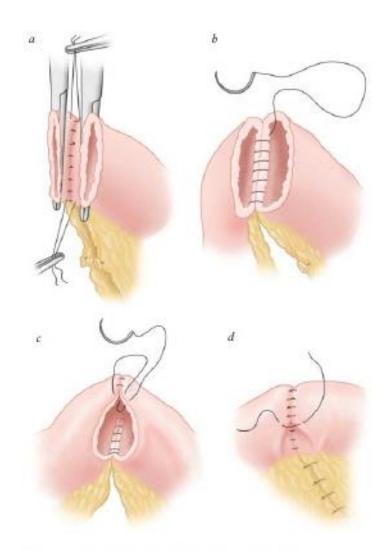
Functional End to End

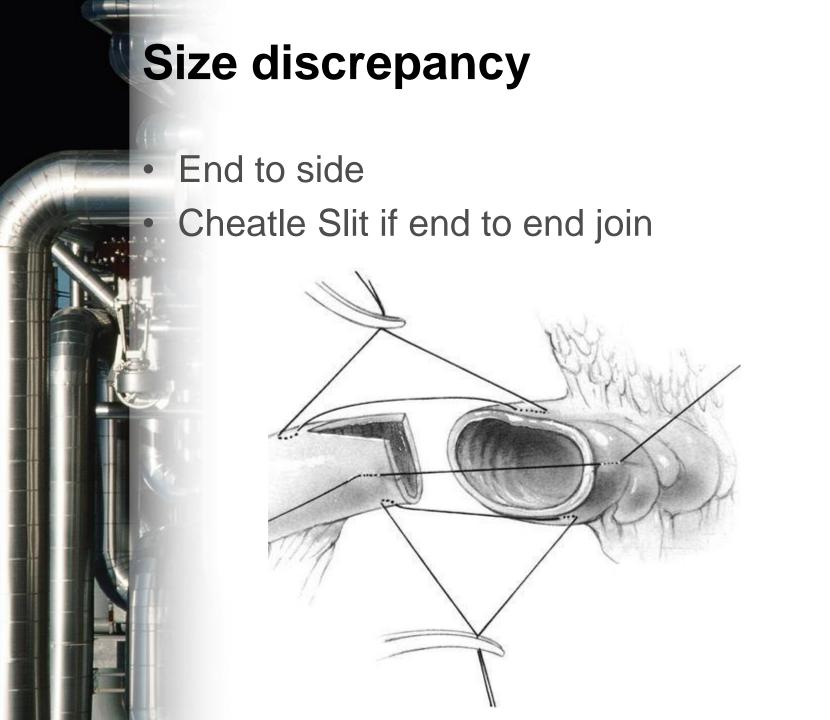
Small bowel or ileocolic anastomosis





Multiple interrupted handsewn anastomosis





To staple or handsew?

No compelling evidence that one technique is superior to others:

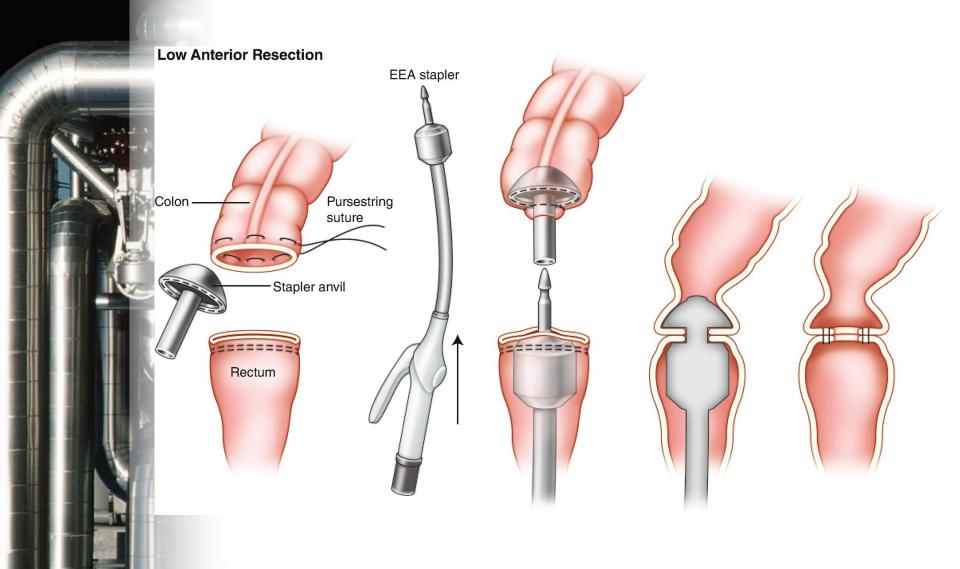
- •Handsewn single- and double-layer anastomoses have been compared in a 2012 Cochrane review of seven small trials. There was no significant difference in anastomotic failure, morbidity, and mortality rates. Single-layer anastomosis was faster, but only by a mean difference of 11 minutes (95% CI -16.37 to -5.97; two studies).
- •The best evidence came from a trial of over 1000 patients who underwent gastrointestinal anastomoses. The incidence of clinical leaks was similar between the two groups (sutured 3.2 percent, stapled 4.7 percent), while the incidence of radiological leaks was higher in the sutured group (12.2 versus 4.1 percent). Other patient outcomes were comparable.

Bottom Line

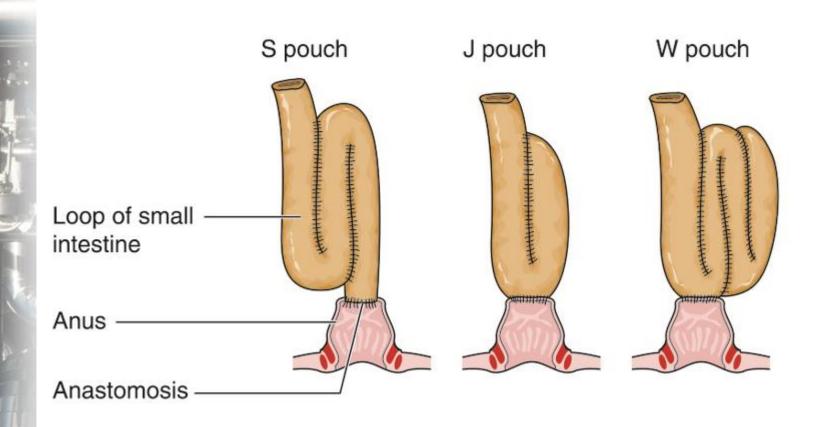
 The key to a successful anastomosis is the accurate union of two viable bowel ends with complete avoidance of tension

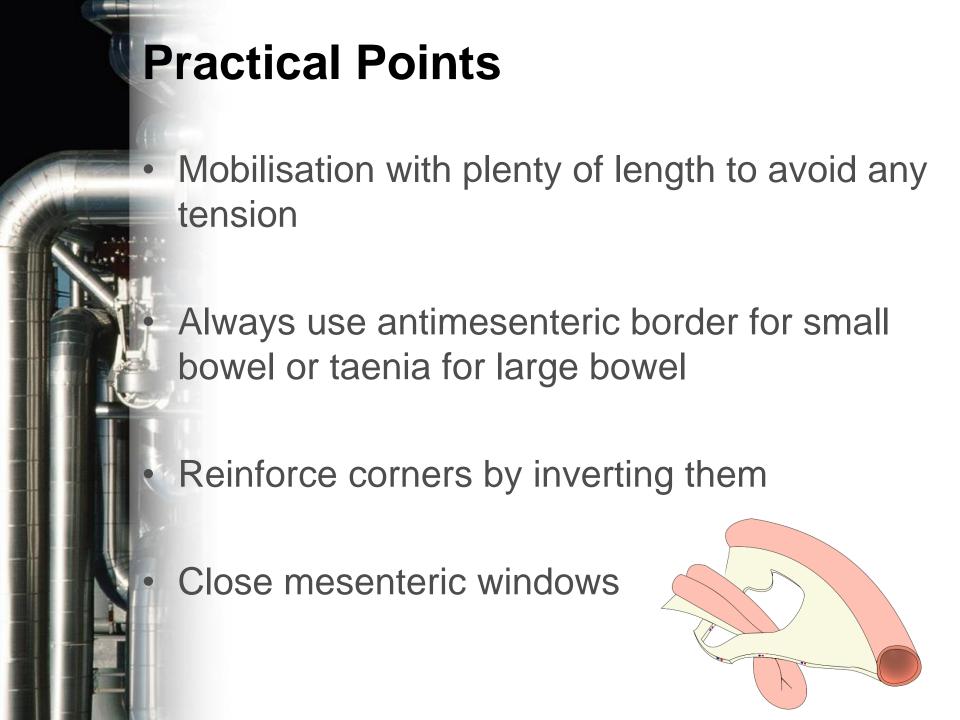


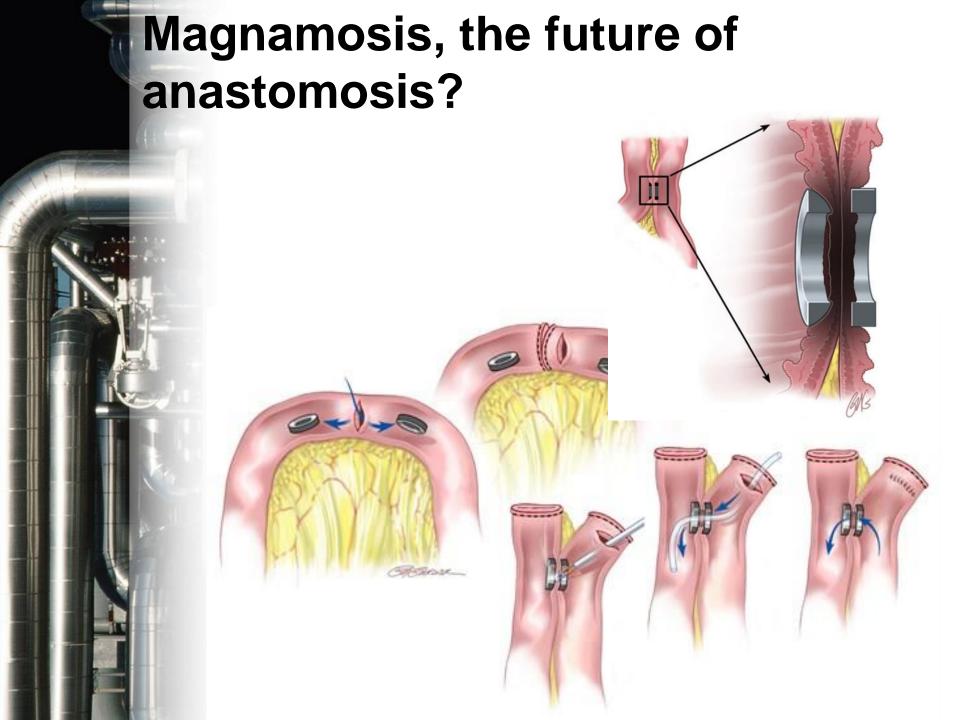
Stapled Colo-rectal Anastomosis



Ileo-anal Anastomosis









Anastomotic leak

Patient Factors

Age

Gender

ASA

Obesity

Nutrition

Immune suppression

NSAIDS

radiation

Technical Factors

- Stapled v Handsewn
- Single layer vs double layer
- Bowel prep
- Drains
- Omentoplasty
- Leak testing
- Diverting stoma