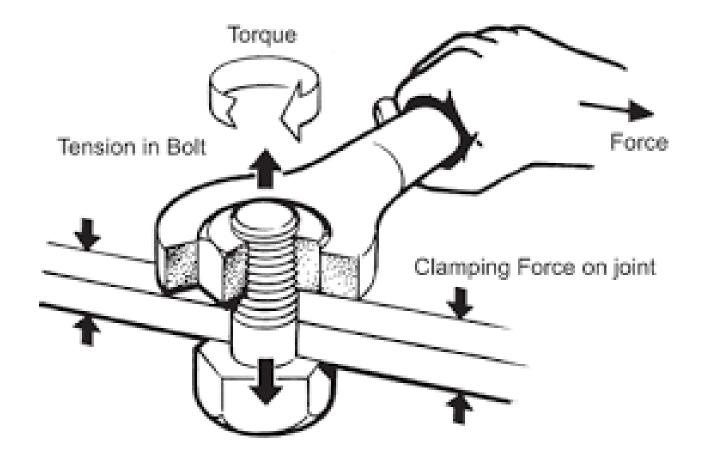
Getting to the Caecum in a Logical Manner

Adam Boutall

Colorectal Unit

Groote Schuur Hospital UCT

Torque steering



Why get the lumen to 12 o clock



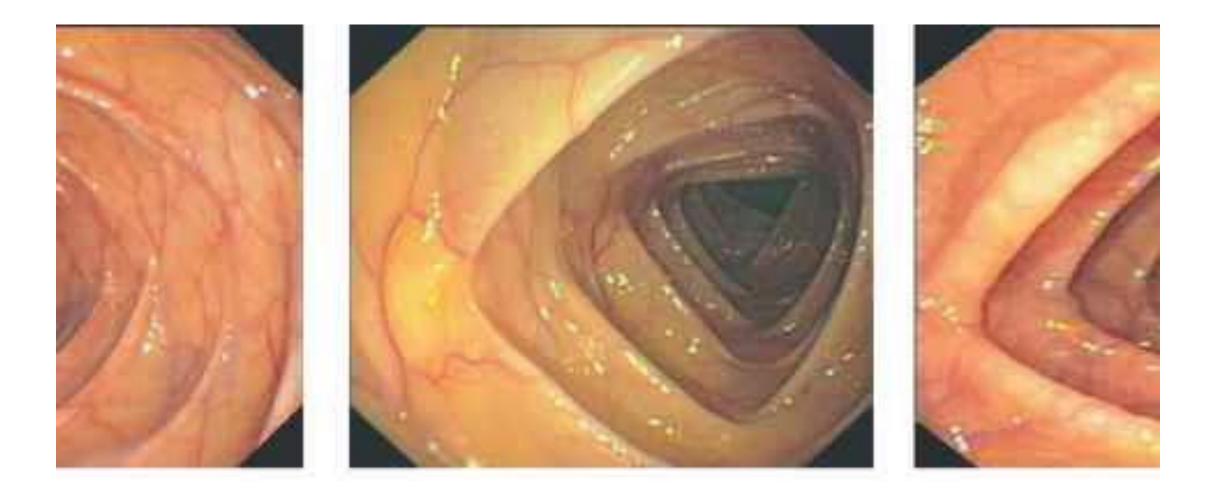


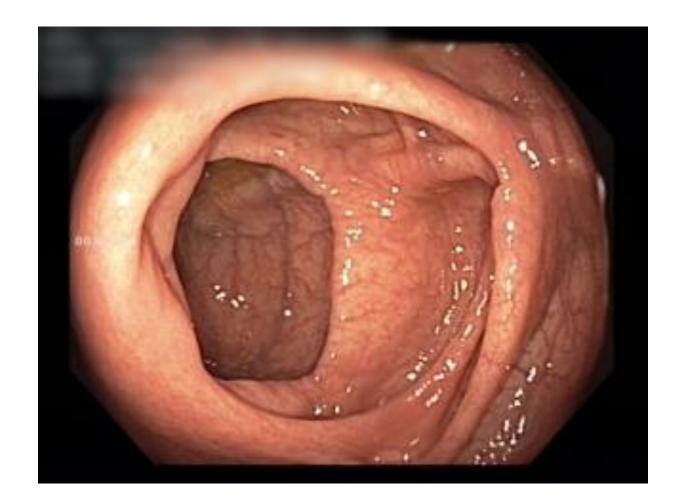
Failure to progress

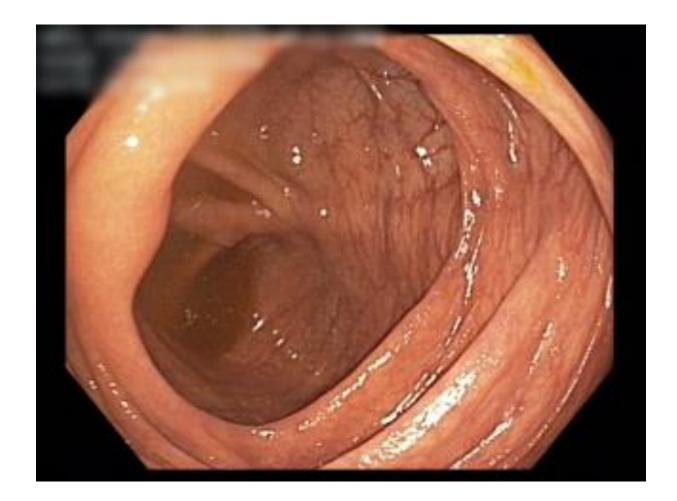
- •Why
 - Tight corner
 - Looping
- •2 options
 - Move the scope
 - Move the patient

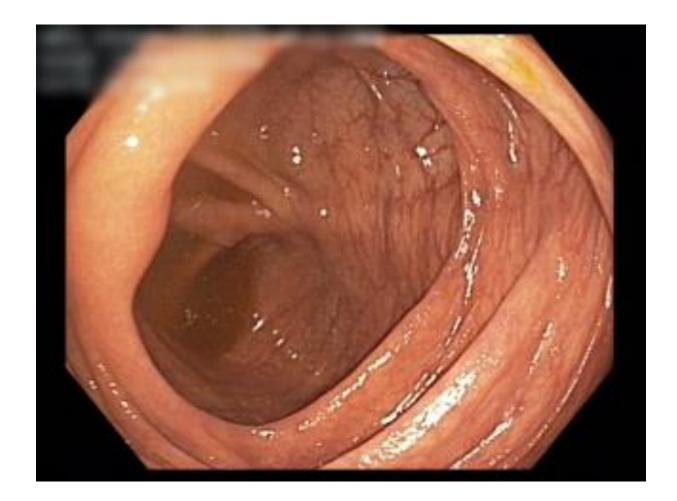
Anatomy of the colon

Anatomy of the colon



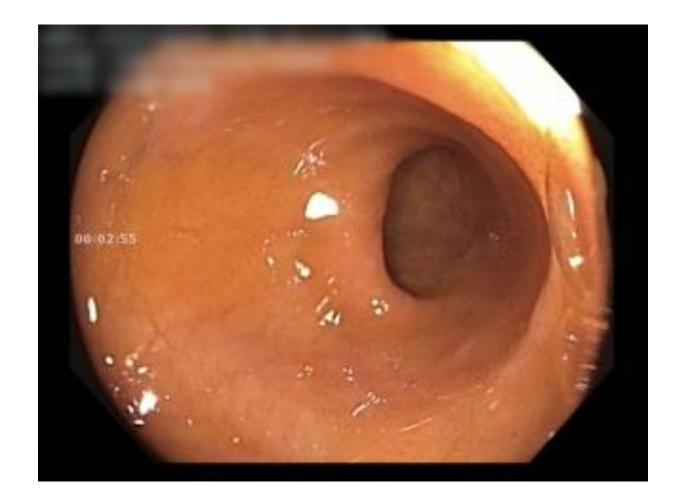


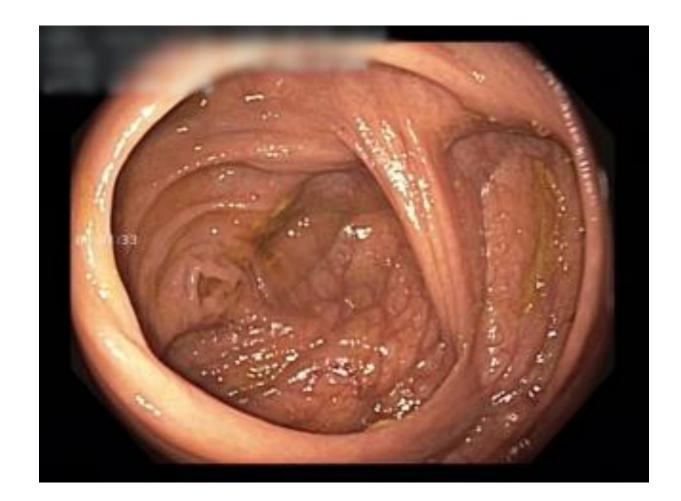














Colonoscopy algorithm

- Mucosal Slide
- Position change
- Clockwise withdrawal
- Counter clock wise withdrawal
- Extras
 - Breath hold
 - Stiffener
 - Pressure
 - Water

Mucosal Slide

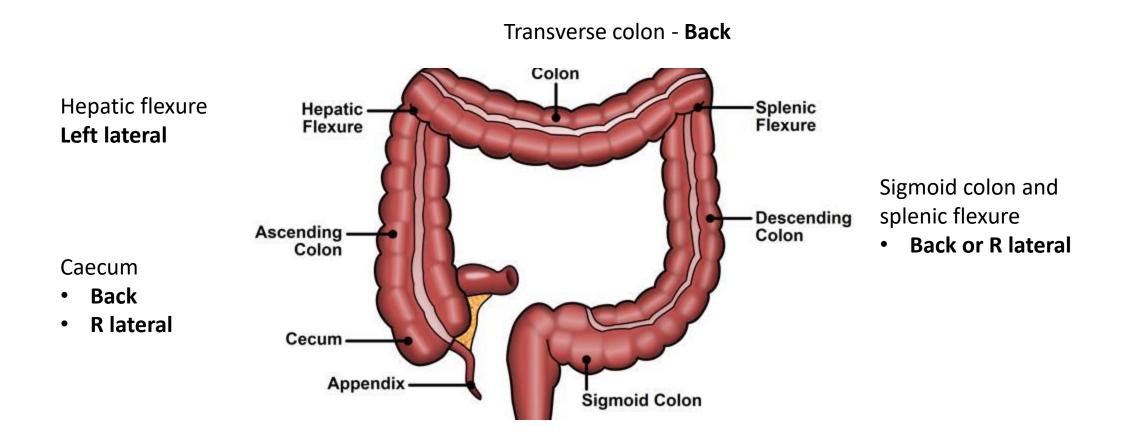
- Move the lumen to 12 o clock
- Tip up
- Advance the scope
- Caveats
 - No divertics
 - No pain
 - No blanching
 - Constant mucosal movement

Position change

• Principles

- Air floats
- Water sinks
- Open up angles by hanging mobile portion from fixed portion
 - Ascending and descending colon are fixed
 - Transverse colon and sigmoid colon are mobile
- Problem
 - Difficult to move an unconscious patient

How Position Change Works



Looping

- 3 kinds of loops
 - Loop that resolves with clockwise torque
 - Loop that resolves with anti clockwise torque
 - Loop that does not resolve
- Pain = Loop

Magnetic Enhanced Imaging

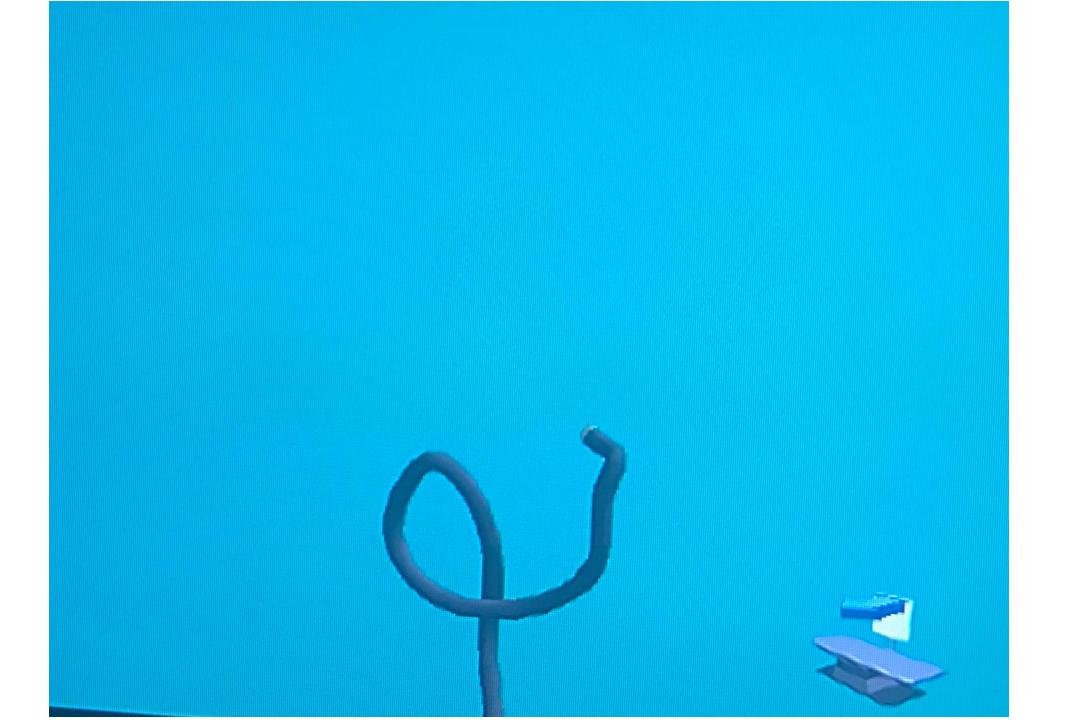
Scope Guide System, Olympus

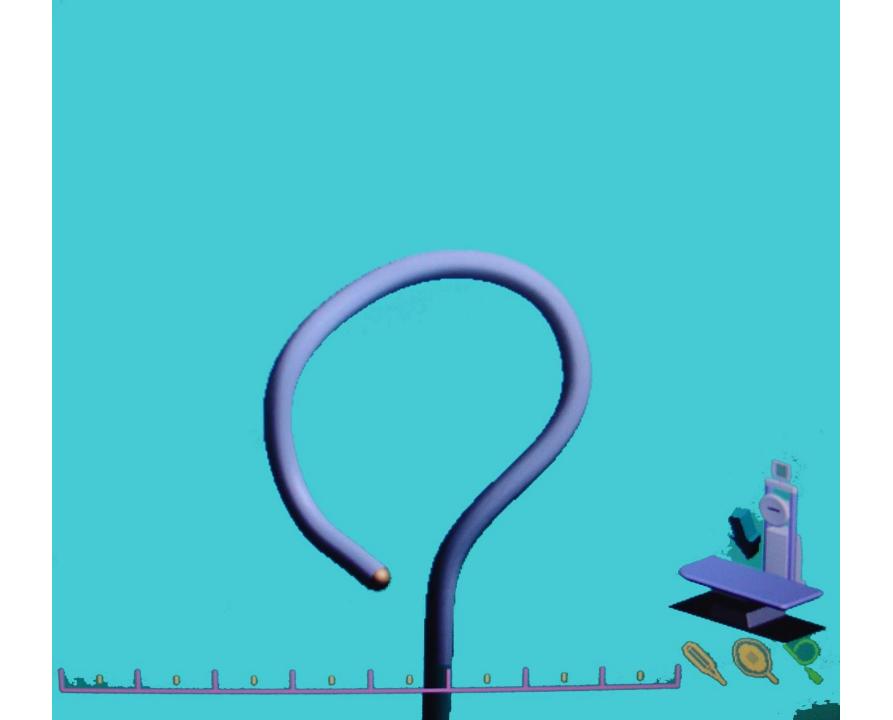


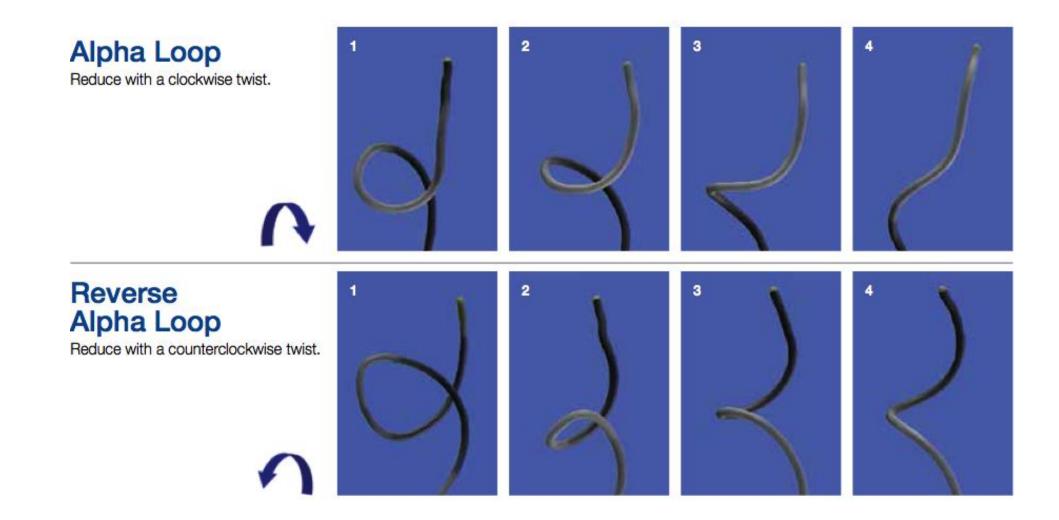
A) Adult variable stiffness colonoscope with embedded sensors (CF-Q160DL).
B) EM transmitter.
C) System monitor.

PENTAX MEDICAL





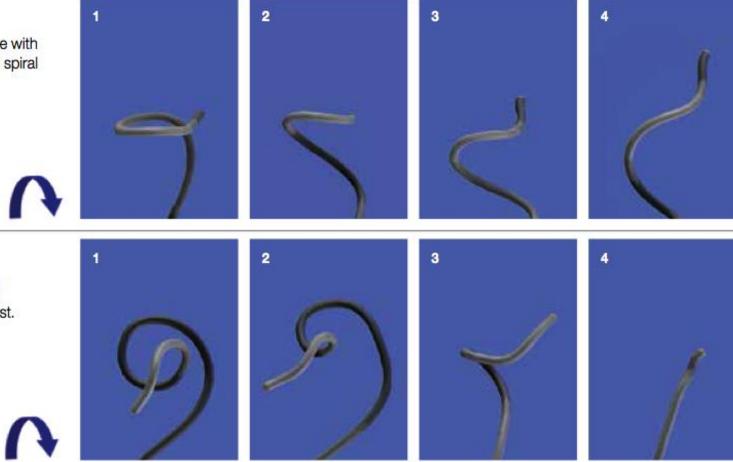




N Loop

Advance carefully and reduce with a clockwise twist if there is a spiral component.

Spiral Sigmoid Loop Reduce with a clockwise twist.





Advantages of scope guide

- Pain caused by looping (Shah et al Endoscopy 2002 June)
- Reduced pain (opinion not back up by trials)
- Accurate localization (Moug et al Surg endoscopy Nov 2016)
- Excellent teaching aid (Holme et al Gastro Endosc 2011 June)
- Better Caecal intubation rate (Chen WJG 2013 Nov)
- Straight scope better for therapy

Adjuncts

- Splint the diaphragm
 - Breath hold
- Stiffener
- Water immersion
- Abdominal pressure
- Change the scope



My standard scope

- Left lateral to start
- Mucosal slide rectosigmoid junction
- On to back as soon as possible.
- At hepatic flexure onto left
- Back onto back
- At ileocecal valve
 - Stiffener on
 - Breath hold
 - Occasional transverse pressure

Conclusion

- Mucosal slide
- Position change
- Reduce the loop