

# Colorectal Operative Technique & Anaesthetic Implications

Professor Umesh Khot

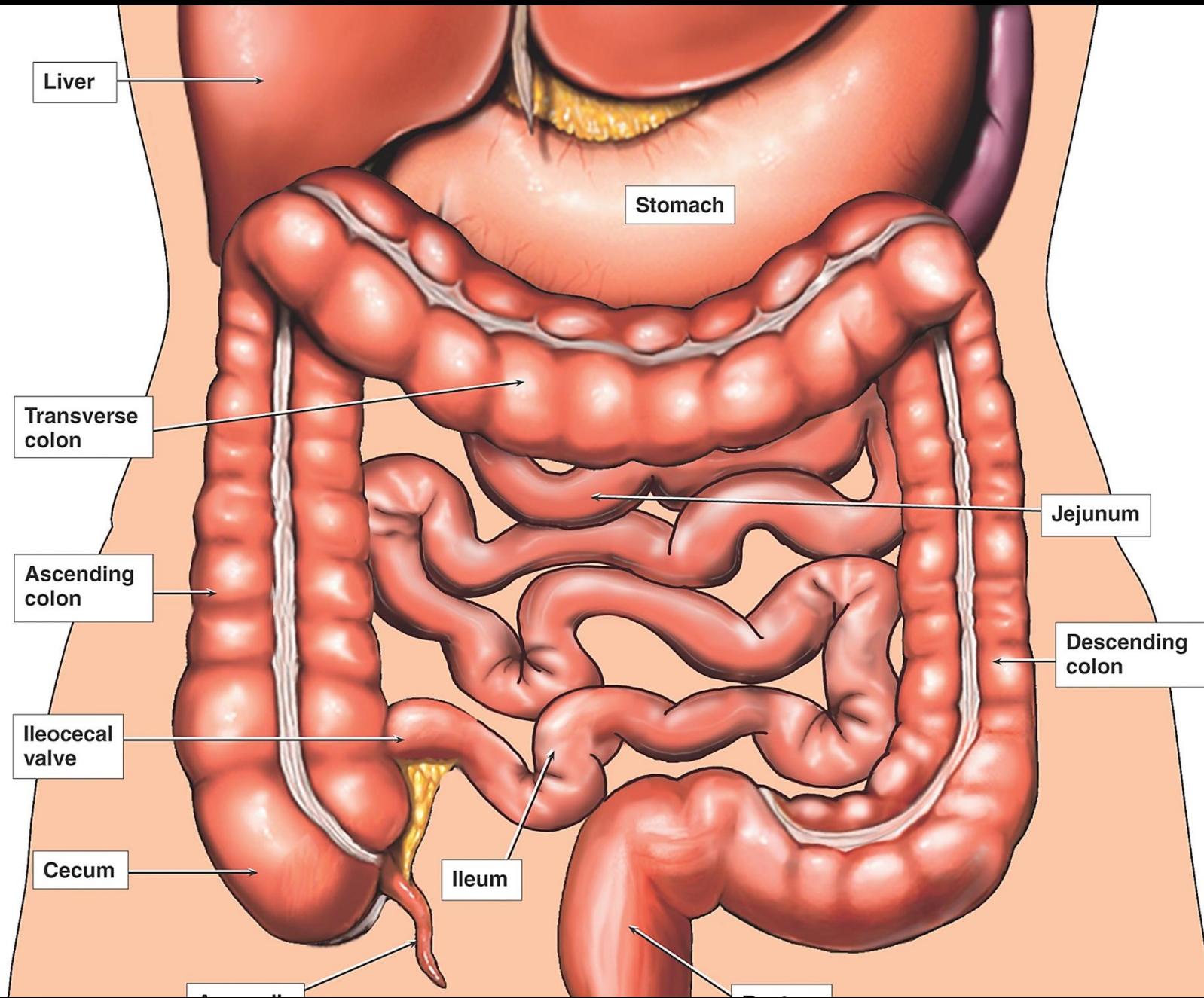
Consultant Surgeon

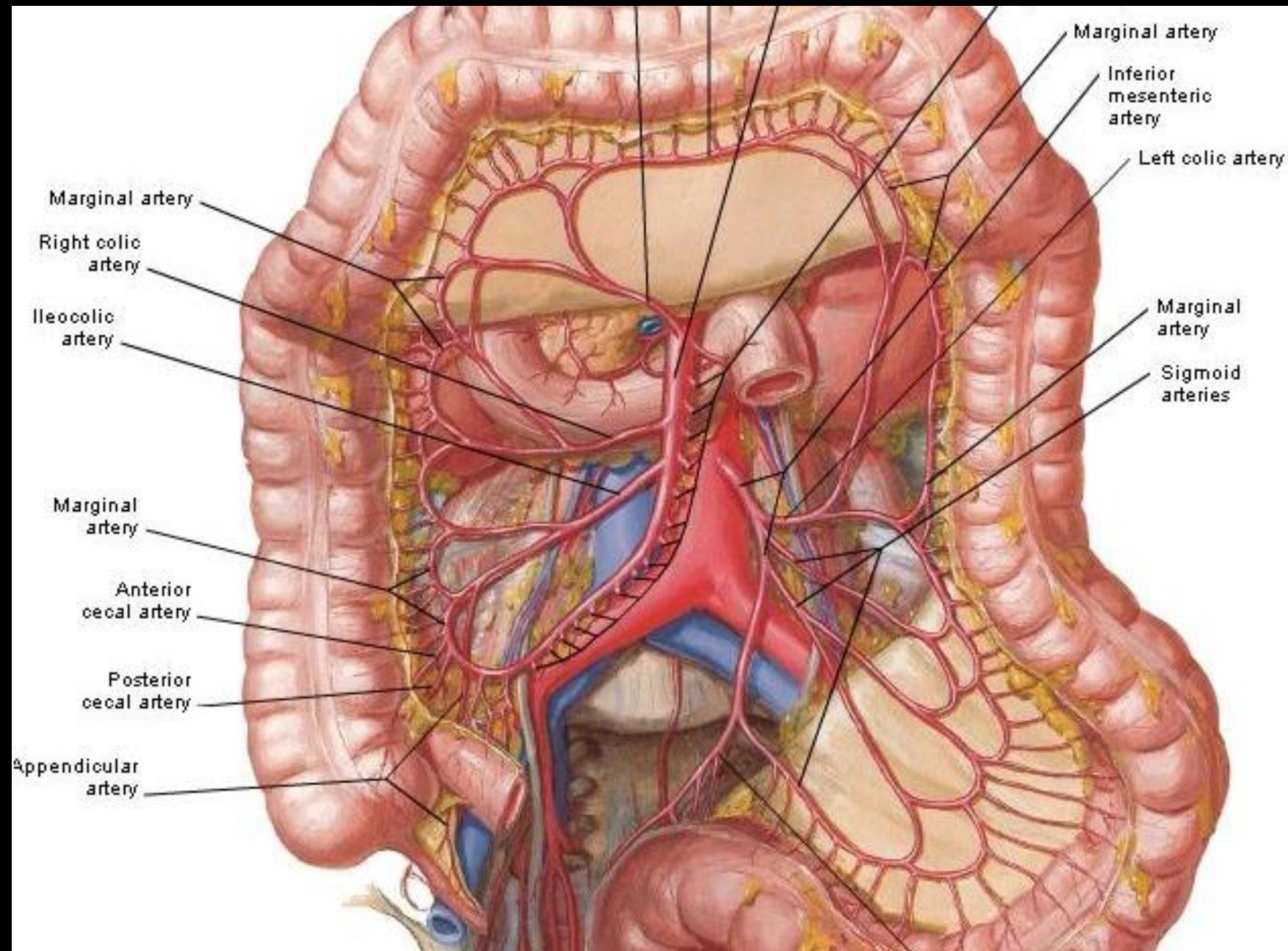
Swansea

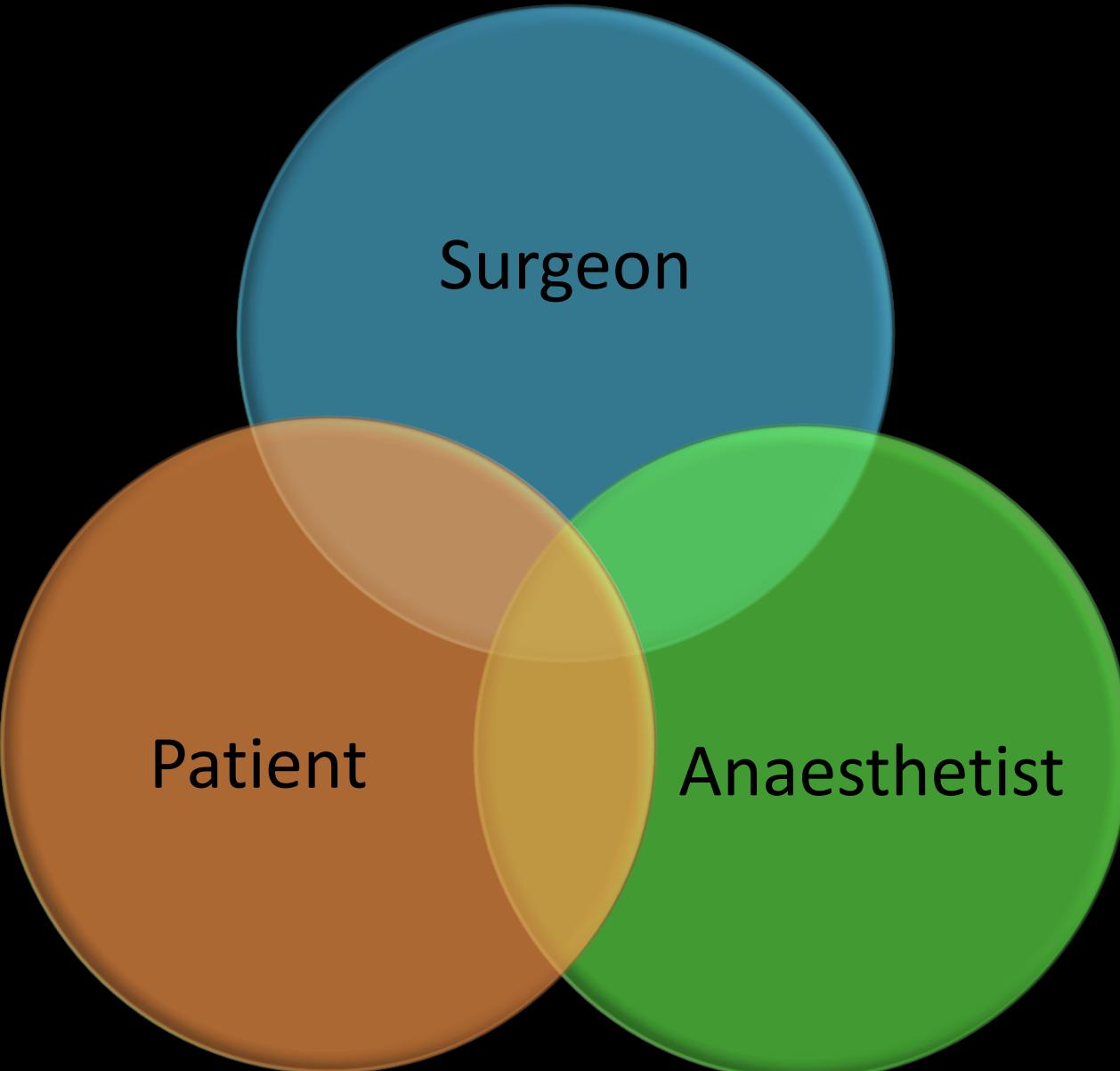
# Common Operations

Right Hemicolectomy

Anterior Resection







Surgeon

Patient

Anaesthetist

# Anaesthetic Implications

- Pneumoperitoneum
- Operative time
- Bleeding
- Visceral injury
- Extraction site
- Adequate specimen mobilisation & Hemostasis
- Conversion to Open
- Pain prophylaxis
- Relaxed patient at Crucial steps!

# Operative Steps Right Hemicolectomy

## Medial to Lateral Dissection

- Anatomy
- Ileocolic pedicle
- Protect Duodenum

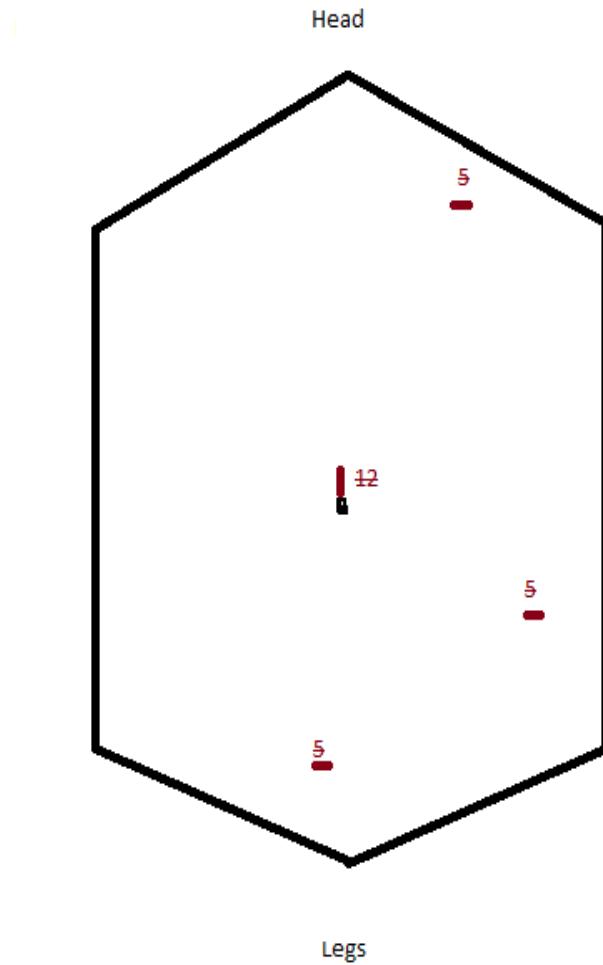
## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

# Port Placement



# Operative Steps

## Medial to Lateral Dissection

- [Anatomy](#)
- Ileocolic pedicle
- Protect Duodenum

## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Ileocolic pedicle
- Protect Duodenum

## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Ileocolic pedicle
- Protect Duodenum

## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Ileocolic pedicle
- Protect Duodenum

## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Ileocolic pedicle
- Protect Duodenum

## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Ileocolic pedicle
- Protect Duodenum

## Hepatic Flexure Mobilisation

- Lesser Sac Entry
- Divide peritoneum along flexure

## Lateral to Medial Dissection

- Detach Terminal Ileum
- Divide peritoneum along Right Colon

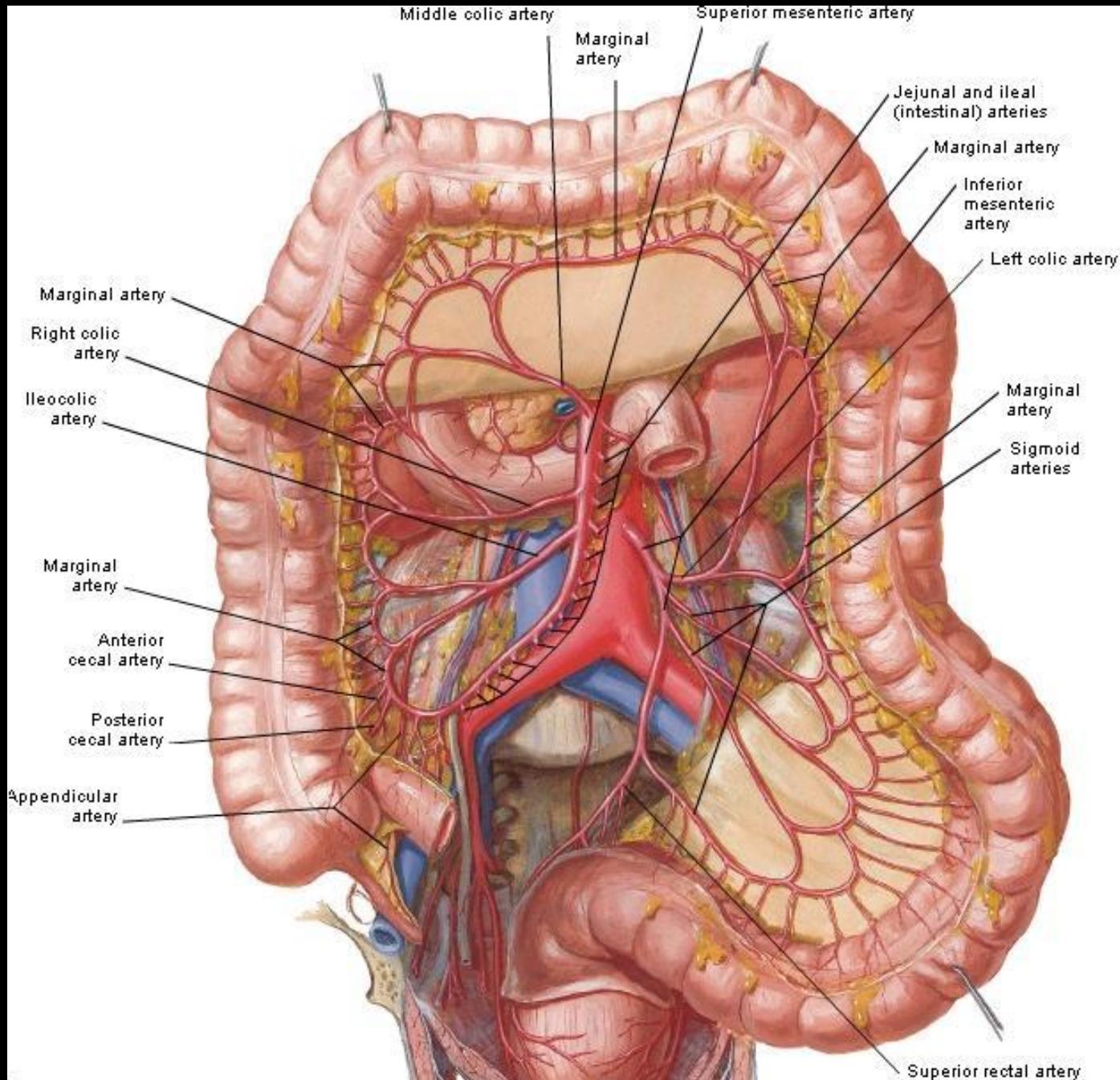
# Anaesthetic Implications

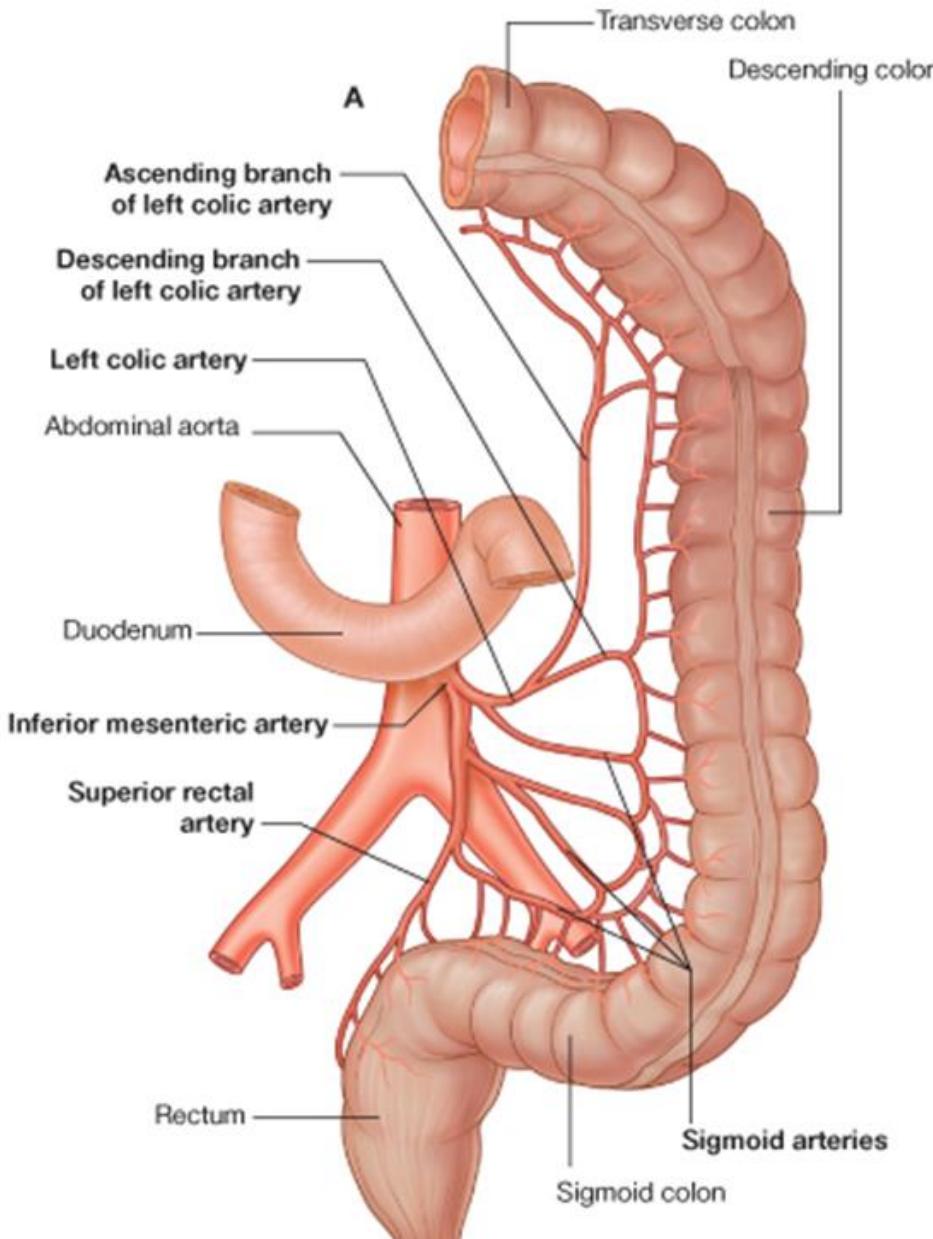
- Pneumoperitoneum
- Operative time
- Bleeding
- Visceral injury
- Extraction site
- Adequate specimen mobilisation & Hemostasis
- Conversion to Open
- Pain prophylaxis

# Anaesthetic Implications

- Pneumoperitoneum
- Operative time
- Bleeding
- Visceral injury
- Extraction site
- Adequate specimen mobilisation & Hemostasis
- Conversion to Open
- Pain prophylaxis

# Anterior Resection-Steps

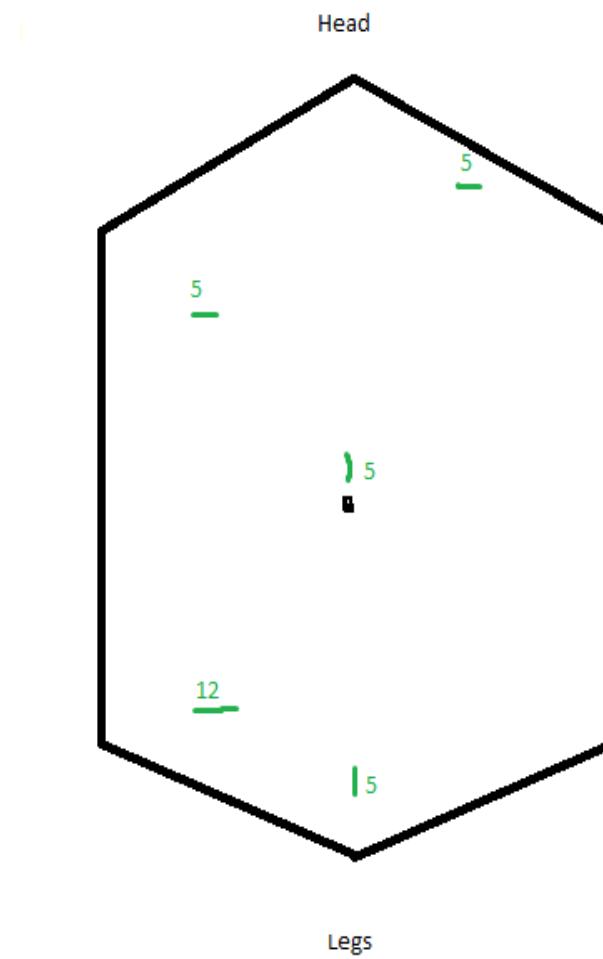




# Anaesthetic Implications

- Pneumoperitoneum
- Operative time
- Bleeding
- Visceral injury
- Extraction site
- Adequate specimen mobilisation & Hemostasis
- Conversion to Open
- Pain prophylaxis
- Relaxed patient at Crucial steps!

# Port Placement



# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

# Operative Steps

## Medial to Lateral Dissection

- Anatomy
- Dissection Toldt's fascia & protect ureter
- IMA preparation & protect retroperitoneum
- Pedicle isolation
- Pedicle stapling

## Lateral to Medial Dissection

- Completion
- Left pelvic dissection

## TME

- Rectum preparation
- Stapling
- Anastomosis

Thank You!